

Appendix I

Country/Economy Profiles

Country/Economy Profiles

The following tables provide detailed profiles for each of the 141 economies in the Global Innovation Index 2012. They are constructed around three sections.

1 Three key indicators at the beginning of each profile are intended to put the economy into context. They present the population in millions,¹ GDP per capita in PPP current international dollars,² and GDP in US\$ billions.³ While coming from different sources, the three series were extracted from the World Bank *World Development Indicators* database in April 2012.

2 The next section provides the economy's scores and rankings on the Global Innovation Index (GII), the Innovation Input Sub-Index, the Innovation Output Sub-Index, and the Innovation Efficiency Index.

The GII ranking for the 2011 edition comes next, followed by the economy's 2012 rank among the 125 economies included in the 2011 edition. Note that because of the inclusion of 16 additional economies in 2012 (from 125 to 141), and because of adjustments made to the GII framework in 2012, the GII 2011 and 2012 are not directly

comparable. Please refer to Annex 2 of Chapter 1 for details.

Scores are normalized in the [0, 100] range except for the Efficiency Index, for which scores revolve around the number 1 (this index is

3 The value/normalized score and the rank for each pillar (identified by its single-digit number), sub-pillar (two-digit number), and indicator (three-digit number) are reported. For example, *indicator 1.3.1, Ease of starting a business*,

appears under *sub-pillar 1.3, Business environment*, which in turn appears under *pillar 1, Institutions*.

When data are either not available or out of date (the cutoff year is 2001), 'n/a' is used.

The 2012 GII includes 84 indicators and three types of data. Composite indicators are identified with an asterisk (*), survey questions from the World Economic Forum's Executive Opinion Survey are identified with a dagger (†), and the remaining indicators are all hard data series.

For hard data, the original value is provided (except for indicators 7.3.1, 7.3.2, and 7.3.4, for which the raw data were provided under the condition that only the normalized scores be published). Normalized scores in the [0, 100] range are provided for everything else (index and survey data, sub-pillars, pillars, and indices).

Albania		
1	Key indicators	
	Population (millions)	3.2
	GDP per capita PPP	7,782
	GDP (US\$ billion)	11.3
	Global Innovation Index 2012 (out of 141)	
	Innovation Input Sub-Index	30.4
	Innovation Output Sub-Index	61.5
	Innovation Efficiency Index	81
	Global Innovation Index 2011 (out of 125)	81
	GII 2011 rank among all 125 economies	115
2	Institutions	55.0
	1.1 Political environment	54.9
	1.1.1 Political stability	60.0
	1.1.2 Government effectiveness	53.8
	1.1.3 Press freedom	70.0
	1.2 Regulatory environment	60.7
	1.2.1 Regulatory quality	57.5
	1.2.2 Rule of law	56.1
	1.2.3 Cost of redundancy dismissal, salary weeks	20.8
	1.3 Business environment	69.3
	1.3.1 Ease of starting a business	60.0
	1.3.2 Ease of resolving insolvency	61.1
	1.3.3 Ease of paying taxes	11.0
3	Human capital & research	26.2
	2.1 Education	44.7
	2.1.1 Current expenditure on education, % GDP	2.8
	2.1.2 Public expenditure/teacher, % GDP/cap	n/a
	2.1.3 School life expectancy, years	11.4
	2.1.4 PISA scores in reading, maths, & science	38.5
	2.1.5 Pupil teacher ratio, secondary	14.8
	2.2 Research & development (R&D)	21.1
	2.2.1 Tertiary enrollment, % gross	18.4
	2.2.2 Graduate in science & engineering, %	61.0
	2.2.3 Tertiary enrolment, % gross	18.4
	2.2.4 Gross tertiary enrolment, % gross	18.4
	2.3 Research & development (R&D)	4.9
	2.3.1 Researchers, headcount/100 pop.	54.0
	2.3.2 Gross expenditure on R&D, % GDP	0.2
	2.3.3 Quality of scientific research institution	19.6
3	Infrastructure	33.6
	3.1 Research & communication technologies (ICT)	27.3
	3.1.1 ICT use	50.3
	3.1.2 ICT use	16.9
	3.1.3 Government online services	45.0
	3.1.4 E-participation	10.0
	3.2 General infrastructure	80.2
	3.2.1 Electricity output, kWh/cap	6,619
	3.2.2 Electricity consumption, kWh/cap	1,768
	3.2.3 Quality of roads & transport infrastructure	28.5
	3.2.4 Gross capital formation, % GDP	25.9
	3.3 Ecological sustainability	41.8
	3.3.1 GDP/unit of energy use, 2000 PPP\$kg oil eq.	16.0
	3.3.2 Environmental performance	65.9
	3.3.3 ISO 14001 environmental certification PPP\$ GDP	0.0
4	Market sophistication	49.7
	4.1 Credit	41.9
	4.1.1 Ease of getting credit	77.4
	4.1.2 Domestic credit to private sector, % GDP	38.0
	4.1.3 Microfinance gross loans, % GDP	3.1
	4.2 Investment	45.0
	4.2.1 Ease of getting foreign investment	45.0
	4.2.2 Market capitalization, % GDP	n/a
	4.2.3 Total value of stocks traded, % GDP	n/a
	4.2.4 Venture capital deals/PPP\$ GDP	0.0
	4.3 Trade & competition	42.4
	4.3.1 Applied tariff rate, weighted mean, %	5.1
	4.3.2 Non-agricultural most favored nation tariff, %	0.3
	4.3.3 Imports of goods & services, % GDP	51.4
	4.3.4 Exports of goods & services, % GDP	20.8
	4.3.5 Intensity of local competition	50.1
5	Business sophistication	22.5
	5.1 Knowledge-intensive employment, %	n/a
	5.1.1 Knowledge-intensive employment, %	n/a
	5.1.2 Firms offering formal training, % firms	19.4
	5.1.3 R&D performed by business, %	0.0
	5.1.4 R&D financed by business, %	3.3
	5.1.5 GMAT mean score	402.4
	5.1.6 GMAT test takers per pop. 20-34	10.4
	5.2 Innovation indices	17.0
	5.2.1 University/industry research collaboration	17.1
	5.2.2 State of cluster development	26.0
	5.2.3 R&D financed by abroad, %	7.4
	5.2.4 In-foreigner alliance deals/PPP\$ GDP	0.0
	5.2.5 ICT patent filings with foreign inventors, %	n/a
	5.3 Regulatory & business process efficiency	28.0
	5.3.1 Regulatory & business process efficiency	28.0
	5.3.2 High-tech imports less re-exports, %	4.7
	5.3.3 Computer & communications imports, %	8.0
	5.3.4 FDI net inflows, % GDP	0.4
6	Knowledge & technology outputs	18.3
	6.1 Domestic resident patent applications PPP\$ GDP	n/a
	6.1.1 Domestic resident patent applications PPP\$ GDP	n/a
	6.1.2 Domestic utility model applications PPP\$ GDP	0.0
	6.1.3 Domestic utility model applications PPP\$ GDP	0.0
	6.1.4 Scientific & technical publications PPP\$ GDP	0.4
	6.2 Knowledge input	25.7
	6.2.1 Growth rate of PPP\$ GDP/capita, %	1.6
	6.2.2 New business starts per 15-64, %	0.0
	6.2.3 Computer software spending, % GDP	n/a
	6.2.4 ISO 9001 quality certification PPP\$ GDP	2.2
	6.3 Knowledge diffusion	17.1
	6.3.1 Royalty & license fees, receipts/GDP	0.1
	6.3.2 High-tech exports less re-exports, %	0.0
	6.3.3 Computer & communications exports, %	12.6
	6.3.4 FDI net outflows, % GDP	0.0
7	Creative outputs	28.1
	7.1 Creative industries	28.1
	7.1.1 Creative industries	28.1
	7.1.2 Market value of creative industries PPP\$ GDP	0.0
	7.1.3 ICT & business model innovation	51.3
	7.1.4 ICT & organizational model innovation	51.3
	7.2 Creative goods & services	20.1
	7.2.1 Creative goods & services	20.1
	7.2.2 National feature film/100 pop. 15-64	n/a
	7.2.3 Pop for music, circulation/pop. 15-64	31.5
	7.2.4 Creative goods exports, %	2.0
	7.2.5 Creative services exports, %	5.0
	7.3 Online creativity	32.4
	7.3.1 Generic top-level domains (TLDs)/100 pop. 15-64	2.1
	7.3.2 Country code TLDs/100 pop. 15-64	19.3
	7.3.3 Wikipedia monthly editions pop. 15-64	878.2
	7.3.4 Video uploads on YouTube/pop. 15-64	63.3

For further details, see Appendix III, Sources and Definitions, and Appendix IV, Technical Notes.

4 To the far right of each column, a plain circle indicates that an indicator is one of the strengths of the country/economy in question, and a hollow circle indicates that it is a weakness.

All top ranks (of 1) are highlighted as strengths; for the remaining indicators, strengths and weaknesses of a particular economy are based on the percentage of economies with scores that fall below its score (i.e., percent ranks).

- Strengths are all scores with percent ranks greater than the 10th largest percent rank among the 84 indicators in a specific economy.
- Weaknesses are all scores with percent ranks lower than the 10th smallest percent rank among the 84 indicators in a specific economy.

Percent ranks embed more information than ranks and allow for comparisons of ranks of series with missing data and ties in ranks. Examples from Poland illustrate this point:

1. Poland's best rank is its 8th position out of 140 in *4.1.1 Ease of getting credit**. But because 13 economies are tied with Poland at rank 8, only 86% have lower scores than Poland (percent rank: 0.86).
2. Even if Poland's rank in *1.1.1 Political stability**—where it ranks 15th out of 141—is lower than its rank of 8th in indicator 4.1.1, it is Poland's major strength because 90%

of the economies in the sample have lower scores in this indicator than Poland does (its percent rank is 0.90, the highest among the 84 indicators).

3. Following that criteria, Poland's major weakness is *5.2.5 PCT patent filings with foreign inventor*, with a rank of 89 out of 102 but a percent rank of 0.13. However, here the fact that data are missing for 39 economies does not allow a straightforward reading of the rank (89).
4. In contrast, Poland's worst rank is 110th out of 133 in *7.1.4 ICT & organizational model creation†*, although only 17% of economies have lower scores than Poland (its percent rank is 0.17, lower than for indicator 5.2.5).

Percent ranks are not reported in the Country/Economy Profiles but are presented in the Data Tables (Appendix II), included in the digital copy only and available online at <http://globalinnovationindex.org>.

Notes

- 1 World Bank estimates based on various sources.
- 2 World Bank, International Comparison Program database.
- 3 World Bank national accounts data, and OECD National Accounts data files.

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Albania

Key indicators

Population (millions)	3.2
GDP per capita, PPP\$	7,780.2
GDP (US\$ billions)	13.3

	Score (0–100) or value (hard data)	Rank
Global Innovation Index 2012 (out of 141).....	30.4	90
Innovation Output Sub-Index	23.3	98
Innovation Input Sub-Index	37.4	82
Innovation Efficiency Index	0.6	112
Global Innovation Index 2011 (out of 125)		80
GII 2012 rank among GII 2011 economies (125)		85

1	Institutions.....	55.0	74
1.1	Political environment	54.9	75
1.1.1	Political stability*.....	60.9	81
1.1.2	Government effectiveness*.....	33.8	83
1.1.3	Press freedom*.....	70.0	75
1.2	Regulatory environment.....	60.7	89
1.2.1	Regulatory quality*.....	57.5	65
1.2.2	Rule of law*.....	36.1	84
1.2.3	Cost of redundancy dismissal, salary weeks	20.8	93
1.3	Business environment	49.3	68
1.3.1	Ease of starting a business*.....	69.0	44
1.3.2	Ease of resolving insolvency*.....	61.1	55
1.3.3	Ease of paying taxes*.....	17.9	115
2	Human capital & research.....	26.2	106
2.1	Education.....	44.7	94
2.1.1	Current expenditure on education, % GNI	2.8	112
2.1.2	Public expenditure/pupil, % GDP/cap.....	n/a	n/a
2.1.3	School life expectancy, years.....	11.4	99
2.1.4	PISA scales in reading, maths, & science	384.3	64
2.1.5	Pupil-teacher ratio, secondary	14.8	68
2.2	Tertiary education	25.1	90
2.2.1	Tertiary enrolment, % gross.....	18.4	90
2.2.2	Graduates in science & engineering, %	6.1	101 ○
2.2.3	Tertiary inbound mobility, %.....	0.9	74
2.2.4	Gross tertiary outbound enrolment, %	6.6	9 ●
2.3	Research & development (R&D).....	8.9	129
2.3.1	Researchers, headcounts/mn pop.	541.0	72
2.3.2	Gross expenditure on R&D, % GDP.....	0.2	92
2.3.3	Quality of scientific research institutions†	19.6	127 ○
3	Infrastructure.....	33.6	71
3.1	Information & communication technologies (ICT).....	27.3	85
3.1.1	ICT access*.....	39.3	77
3.1.2	ICT use*.....	16.9	70
3.1.3	Government's online service*.....	42.5	88
3.1.4	E-participation*.....	10.5	93
3.2	General infrastructure	30.2	100
3.2.1	Electricity output, kWh/cap.....	1,651.9	82
3.2.2	Electricity consumption, kWh/cap.....	1,768.0	73
3.2.3	Quality of trade & transport infrastructure*	28.5	106
3.2.4	Gross capital formation, % GDP.....	25.9	34 ●
3.3	Ecological sustainability	43.3	32 ●
3.3.1	GDP/unit of energy use, 2000 PPP\$/kg oil eq.....	10.6	10 ●
3.3.2	Environmental performance*.....	65.9	15 ●
3.3.3	ISO 14001 environmental certificates/bn PPP\$ GDP	0.0	132 ○
4	Market sophistication	49.7	32 ●
4.1	Credit	41.9	41
4.1.1	Ease of getting credit*.....	77.4	21 ●
4.1.2	Domestic credit to private sector, % GDP	38.0	84
4.1.3	Microfinance gross loans, % GDP	3.1	17 ●

4.2	Investment.....	45.0	25 ●
4.2.1	Ease of protecting investors*.....	89.9	15 ●
4.2.2	Market capitalization, % GDP.....	n/a	n/a
4.2.3	Total value of stocks traded, % GDP.....	n/a	n/a
4.2.4	Venture capital deals/tr PPP\$ GDP.....	0.0	65 ○
4.3	Trade & competition	62.4	75
4.3.1	Applied tariff rate, weighted mean, %.....	5.1	79
4.3.2	Non-agricultural mkt access weighted tariff, %.....	0.2	30 ●
4.3.3	Imports of goods & services, % GDP	51.8	47
4.3.4	Exports of goods & services, % GDP	29.8	88
4.3.5	Intensity of local competition†	50.5	118
5	Business sophistication	22.6	138 ○
5.1	Knowledge workers.....	27.7	121
5.1.1	Knowledge-intensive employment, %.....	n/a	n/a
5.1.2	Firms offering formal training, % firms.....	19.9	91
5.1.3	R&D performed by business, %.....	0.0	89 ○
5.1.4	R&D financed by business, %	3.3	81
5.1.5	GMAT mean score.....	492.6	79
5.1.6	GMAT test takers/mn pop. 20–34.....	156.6	38 ●
5.2	Innovation linkages	17.0	135 ○
5.2.1	University/industry research collaboration†	17.7	131 ○
5.2.2	State of cluster development†	26.9	121
5.2.3	R&D financed by abroad, %.....	7.4	44
5.2.4	JV–strategic alliance deals/tr PPP\$ GDP	0.0	114 ○
5.2.5	PCT patent filings with foreign inventor, %.....	n/a	n/a
5.3	Knowledge absorption	23.0	134 ○
5.3.1	Royalty & license fees payments/th GDP.....	1.0	72
5.3.2	High-tech imports less re-imports, %	4.7	108
5.3.3	Computer & comm. service imports, %.....	8.9	127 ○
5.3.4	FDI net inflows, % GDP.....	9.4	15 ●
6	Knowledge & technology outputs	18.5	113
6.1	Knowledge creation.....	12.8	104
6.1.1	Domestic resident patent ap/bn PPP\$ GDP	n/a	n/a
6.1.2	PCT resident patent ap/bn PPP\$ GDP	0.0	95
6.1.3	Domestic res utility model ap/bn PPP\$ GDP	0.0	62 ○
6.1.4	Scientific & technical articles/bn PPP\$ GDP.....	0.4	134 ○
6.2	Knowledge impact	25.7	99
6.2.1	Growth rate of PPP\$ GDP/worker, %.....	1.6	81
6.2.2	New businesses/th pop. 15–64.....	0.8	67
6.2.3	Computer software spending, % GDP.....	n/a	n/a
6.2.4	ISO 9001 quality certificates/bn PPP\$ GDP	2.2	92
6.3	Knowledge diffusion	17.1	113
6.3.1	Royalty & license fees receipts/th GDP.....	0.1	77
6.3.2	High-tech exports less re-exports, %.....	0.9	74
6.3.3	Computer & comm. service exports, %	12.6	112
6.3.4	FDI net outflows, % GDP	0.0	100
7	Creative outputs	28.1	88
7.1	Creative intangibles.....	35.0	91
7.1.1	Domestic res trademark reg/bn PPP\$ GDP.....	n/a	n/a
7.1.2	Madrid resident trademark reg/bn PPP\$ GDP.....	0.0	57
7.1.3	ICT & business model creation†	53.0	62
7.1.4	ICT & organizational model creation†	51.3	56
7.2	Creative goods & services	20.1	73
7.2.1	Recreation & culture consumption, %.....	n/a	n/a
7.2.2	National feature films/mn pop. 15–69.....	n/a	n/a
7.2.3	Paid-for dailies, circulation/th pop. 15–69.....	31.0	95
7.2.4	Creative goods exports, %.....	2.0	46
7.2.5	Creative services exports, %.....	5.9	33
7.3	Online creativity.....	22.4	66
7.3.1	Generic top-level domains (TLDs)/th pop. 15–69.....	2.1	83
7.3.2	Country-code TLDs/th pop. 15–69.....	19.5	75
7.3.3	Wikipedia monthly edits/mn pop. 15–69.....	878.2	67
7.3.4	Video uploads on YouTube/pop. 15–69.....	63.3	43

Key indicators

Population (millions)	36.7
GDP per capita, PPP\$	7,210.3
GDP (US\$ billions)	183.4

	Score (0–100) or value (hard data)	Rank
Global Innovation Index 2012 (out of 141).....	24.4	124
Innovation Output Sub-Index	15.8	134 ○
Innovation Input Sub-Index	33.0	101
Innovation Efficiency Index	0.5	136 ○
Global Innovation Index 2011 (out of 125)	125	
GII 2012 rank among GII 2011 economies (125)	114	

1 Institutions.....40.6 114**1.1 Political environment.....38.9 118**

1.1.1 Political stability*.....	35.1	125
1.1.2 Government effectiveness*.....	26.2	103
1.1.3 Press freedom*.....	55.4	97

1.2 Regulatory environment.....53.3 107

1.2.1 Regulatory quality*.....	22.6	135 ○
1.2.2 Rule of law*.....	27.6	107
1.2.3 Cost of redundancy dismissal, salary weeks.....	17.3	80

1.3 Business environment.....29.4 110

1.3.1 Ease of starting a business*.....	10.7	124
1.3.2 Ease of resolving insolvency*.....	67.6	46 ●
1.3.3 Ease of paying taxes*.....	10.0	126

2 Human capital & research.....32.5 77**2.1 Education.....54.0 60**

2.1.1 Current expenditure on education, % GNI	4.5	54 ●
2.1.2 Public expenditure/pupil, % GDP/cap.....	n/a	n/a
2.1.3 School life expectancy, years.....	13.6	54
2.1.4 PISA scales in reading, maths, & science.....	n/a	n/a
2.1.5 Pupil-teacher ratio, secondary	20.8	96

2.2 Tertiary education.....33.8 63

2.2.1 Tertiary enrolment, % gross.....	30.8	71
2.2.2 Graduates in science & engineering, %	28.0	15 ●
2.2.3 Tertiary inbound mobility, %.....	0.6	86
2.2.4 Gross tertiary outbound enrolment, %	0.6	90

2.3 Research & development (R&D).....9.6 126

2.3.1 Researchers, headcounts/mn pop.	419.8	75
2.3.2 Gross expenditure on R&D, % GDP.....	0.1	102
2.3.3 Quality of scientific research institutions†.....	24.8	120

3 Infrastructure.....28.0 95**3.1 Information & communication technologies (ICT).....17.4 112**

3.1.1 ICT access*.....	33.4	92
3.1.2 ICT use*	5.6	105
3.1.3 Government's online service*.....	25.5	123
3.1.4 E-participation*.....	5.3	110

3.2 General infrastructure.....39.2 54 ●

3.2.1 Electricity output, kWh/cap.....	1,201.4	88
3.2.2 Electricity consumption, kWh/cap.....	972.5	93
3.2.3 Quality of trade & transport infrastructure*.....	26.5	116
3.2.4 Gross capital formation, % GDP.....	41.2	2 ●

3.3 Ecological sustainability.....27.4 86

3.3.1 GDP/unit of energy use, 2000 PPP\$/kg oil eq.....	5.7	62
3.3.2 Environmental performance*.....	48.6	83
3.3.3 ISO 14001 environmental certificates/bn PPP\$ GDP.....	0.3	89

4 Market sophistication.....29.3 114**4.1 Credit.....7.0 127**

4.1.1 Ease of getting credit*.....	10.9	120
4.1.2 Domestic credit to private sector, % GDP.....	15.8	128
4.1.3 Microfinance gross loans, % GDP.....	n/a	n/a

4.2 Investment.....23.4 73

4.2.1 Ease of protecting investors*.....	46.7	60
4.2.2 Market capitalization, % GDP.....	n/a	n/a
4.2.3 Total value of stocks traded, % GDP.....	n/a	n/a
4.2.4 Venture capital deals/tr PPP\$ GDP.....	0.0	65 ○

4.3 Trade & competition.....57.7 98

4.3.1 Applied tariff rate, weighted mean, %.....	8.6	114
4.3.2 Non-agricultural mkt access weighted tariff, %.....	0.0	17 ●
4.3.3 Imports of goods & services, % GDP.....	36.1	84
4.3.4 Exports of goods & services, % GDP.....	40.4	62
4.3.5 Intensity of local competition†.....	48.0	126

5 Business sophistication.....34.5 92**5.1 Knowledge workers.....30.7 112**

5.1.1 Knowledge-intensive employment, %.....	19.1	73
5.1.2 Firms offering formal training, % firms.....	17.3	94
5.1.3 R&D performed by business, %.....	n/a	n/a
5.1.4 R&D financed by business, %	n/a	n/a
5.1.5 GMAT mean score.....	514.4	63
5.1.6 GMAT test takers/mn pop. 20–34.....	4.3	133 ○

5.2 Innovation linkages.....31.0 97

5.2.1 University/industry research collaboration†.....	22.2	128 ○
5.2.2 State of cluster development†.....	20.3	131 ○
5.2.3 R&D financed by abroad, %.....	n/a	n/a
5.2.4 JV-strategic alliance deals/tr PPP\$ GDP.....	1.6	113
5.2.5 PCT patent filings with foreign inventor, %.....	100.0	1 ●

5.3 Knowledge absorption.....41.9 45 ●

5.3.1 Royalty & license fees payments/th GDP.....	0.1	109
5.3.2 High-tech imports less re-imports, %.....	9.6	55
5.3.3 Computer & comm. service imports, %.....	67.4	3 ●
5.3.4 FDI net inflows, % GDP.....	1.4	94

6 Knowledge & technology outputs.....19.9 108**6.1 Knowledge creation.....10.0 110**

6.1.1 Domestic resident patent ap/bn PPP\$ GDP.....	0.3	92
6.1.2 PCT resident patent ap/bn PPP\$ GDP.....	0.0	106 ○
6.1.3 Domestic res utility model ap/bn PPP\$ GDP.....	n/a	n/a
6.1.4 Scientific & technical articles/bn PPP\$ GDP.....	2.5	76

6.2 Knowledge impact.....19.5 123

6.2.1 Growth rate of PPP\$ GDP/worker, %.....	1.5	85
6.2.2 New businesses/th pop. 15–64.....	0.4	85
6.2.3 Computer software spending, % GDP.....	0.1	65
6.2.4 ISO 9001 quality certificates/bn PPP\$ GDP.....	1.4	105

6.3 Knowledge diffusion.....30.1 54 ●

6.3.1 Royalty & license fees receipts/th GDP.....	0.0	89
6.3.2 High-tech exports less re-exports, %.....	0.0	119 ○
6.3.3 Computer & comm. service exports, %	53.9	21 ●
6.3.4 FDI net outflows, % GDP.....	0.2	75

7 Creative outputs.....11.7 136 ○**7.1 Creative intangibles.....12.0 134 ○**

7.1.1 Domestic res trademark reg/bn PPP\$ GDP.....	3.4	82
7.1.2 Madrid resident trademark reg/bn PPP\$ GDP.....	0.0	62 ○
7.1.3 ICT & business model creation†.....	18.7	133 ○
7.1.4 ICT & organizational model creation†.....	27.6	125

7.2 Creative goods & services.....13.6 86

7.2.1 Recreation & culture consumption, %.....	1.7	86
7.2.2 National feature films/mn pop. 15–69.....	n/a	n/a
7.2.3 Paid-for dailies, circulation/th pop. 15–69.....	106.9	53 ●
7.2.4 Creative goods exports, %.....	0.0	131 ○
7.2.5 Creative services exports, %.....	8.3	22 ●

7.3 Online creativity.....9.2 114

7.3.1 Generic top-level domains (TLDs)/th pop. 15–69.....	0.2	129
7.3.2 Country-code TLDs/th pop. 15–69.....	1.0	126
7.3.3 Wikipedia monthly edits/mn pop. 15–69.....	161.2	100
7.3.4 Video uploads on YouTube/pop. 15–69.....	34.7	102

Angola

Key indicators

Population (millions)	19.6
GDP per capita, PPP\$	5,911.0
GDP (US\$ billions)	99.3

	Score (0–100) or value (hard data)	Rank
Global Innovation Index 2012 (out of 141).....	22.2	135
Innovation Output Sub-Index	18.1	127
Innovation Input Sub-Index	26.3	133
Innovation Efficiency Index	0.7	85
Global Innovation Index 2011 (out of 125)	n/a	
GII 2012 rank among GII 2011 economies (125)	n/a	

1	Institutions.....	34.7	131
1.1	Political environment	41.8	113
1.1.1	Political stability*.....	60.1	83
1.1.2	Government effectiveness*.....	11.4	135
1.1.3	Press freedom*.....	53.8	107
1.2	Regulatory environment.....	52.2	111
1.2.1	Regulatory quality*.....	25.2	131
1.2.2	Rule of law*.....	14.8	136
1.2.3	Cost of redundancy dismissal, salary weeks.....	15.8	73 ●
1.3	Business environment	10.0	138 ○
1.3.1	Ease of starting a business*.....	3.5	135
1.3.2	Ease of resolving insolvency*.....	5.0	133
1.3.3	Ease of paying taxes*.....	21.5	110
2	Human capital & research.....	18.0	132
2.1	Education.....	21.5	137 ○
2.1.1	Current expenditure on education, % GNI	2.3	122
2.1.2	Public expenditure/pupil, % GDP/cap.....	n/a	n/a
2.1.3	School life expectancy, years.....	10.2	117
2.1.4	PISA scales in reading, maths, & science.....	n/a	n/a
2.1.5	Pupil-teacher ratio, secondary	38.7	130 ○
2.2	Tertiary education	23.0	95
2.2.1	Tertiary enrolment, % gross.....	3.7	126
2.2.2	Graduates in science & engineering, %	11.9	93
2.2.3	Tertiary inbound mobility, %.....	9.9	17 ●
2.2.4	Gross tertiary outbound enrolment, %	0.4	106
2.3	Research & development (R&D).....	9.4	128
2.3.1	Researchers, headcounts/mn pop.	n/a	n/a
2.3.2	Gross expenditure on R&D, % GDP.....	n/a	n/a
2.3.3	Quality of scientific research institutions†.....	9.4	133 ○
3	Infrastructure.....	18.2	131
3.1	Information & communication technologies (ICT).....	14.9	120
3.1.1	ICT access*.....	18.6	126
3.1.2	ICT use*.....	5.3	106
3.1.3	Government's online service*.....	33.3	107
3.1.4	E-participation*.....	2.6	115
3.2	General infrastructure	16.0	140 ○
3.2.1	Electricity output, kWh/cap.....	225.5	114
3.2.2	Electricity consumption, kWh/cap.....	202.8	113
3.2.3	Quality of trade & transport infrastructure*.....	17.3	136 ○
3.2.4	Gross capital formation, % GDP.....	14.6	132
3.3	Ecological sustainability	23.8	97
3.3.1	GDP/unit of energy use, 2000 PPP\$/kg oil eq.....	4.5	81
3.3.2	Environmental performance*.....	47.6	87
3.3.3	ISO 14001 environmental certificates/bn PPP\$ GDP.....	0.0	131 ○
4	Market sophistication	31.8	102
4.1	Credit	6.7	129
4.1.1	Ease of getting credit*.....	15.3	112
4.1.2	Domestic credit to private sector, % GDP.....	20.3	118
4.1.3	Microfinance gross loans, % GDP.....	0.0	81

4.2	Investment.....	29.1	57 ●
4.2.1	Ease of protecting investors*.....	58.2	48 ●
4.2.2	Market capitalization, % GDP.....	n/a	n/a
4.2.3	Total value of stocks traded, % GDP.....	n/a	n/a
4.2.4	Venture capital deals/tr PPP\$ GDP.....	0.0	65 ○
4.3	Trade & competition	59.6	90
4.3.1	Applied tariff rate, weighted mean, %.....	7.4	103
4.3.2	Non-agricultural mkt access weighted tariff, %.....	0.0	8 ●
4.3.3	Imports of goods & services, % GDP.....	43.8	59 ●
4.3.4	Exports of goods & services, % GDP.....	58.0	25 ●
4.3.5	Intensity of local competition†.....	36.1	133 ○
5	Business sophistication	28.8	126
5.1	Knowledge workers.....	22.3	130
5.1.1	Knowledge-intensive employment, %.....	n/a	n/a
5.1.2	Firms offering formal training, % firms.....	23.5	84
5.1.3	R&D performed by business, %.....	n/a	n/a
5.1.4	R&D financed by business, %	n/a	n/a
5.1.5	GMAT mean score.....	403.9	129
5.1.6	GMAT test takers/mn pop. 20–34.....	4.5	132
5.2	Innovation linkages	17.0	134
5.2.1	University/industry research collaboration†.....	17.8	130 ○
5.2.2	State of cluster development†.....	23.3	127
5.2.3	R&D financed by abroad, %.....	n/a	n/a
5.2.4	JV–strategic alliance deals/tr PPP\$ GDP.....	4.7	104
5.2.5	PCT patent filings with foreign inventor, %.....	n/a	n/a
5.3	Knowledge absorption	47.2	23 ●
5.3.1	Royalty & license fees payments/th GDP.....	0.1	111
5.3.2	High-tech imports less re-imports, %.....	n/a	n/a
5.3.3	Computer & comm. service imports, %.....	72.2	2 ●
5.3.4	FDI net inflows, % GDP.....	-3.8	139 ○
6	Knowledge & technology outputs	17.2	123
6.1	Knowledge creation.....	0.0	141 ○
6.1.1	Domestic resident patent ap/bn PPP\$ GDP.....	n/a	n/a
6.1.2	PCT resident patent ap/bn PPP\$ GDP.....	0.0	110 ○
6.1.3	Domestic res utility model ap/bn PPP\$ GDP.....	n/a	n/a
6.1.4	Scientific & technical articles/bn PPP\$ GDP.....	0.1	140 ○
6.2	Knowledge impact	30.2	79
6.2.1	Growth rate of PPP\$ GDP/worker, %.....	3.4	45 ●
6.2.2	New businesses/th pop. 15–64.....	n/a	n/a
6.2.3	Computer software spending, % GDP.....	n/a	n/a
6.2.4	ISO 9001 quality certificates/bn PPP\$ GDP.....	0.2	136
6.3	Knowledge diffusion	21.5	94
6.3.1	Royalty & license fees receipts/th GDP.....	0.1	66
6.3.2	High-tech exports less re-exports, %.....	n/a	n/a
6.3.3	Computer & comm. service exports, %	9.2	119
6.3.4	FDI net outflows, % GDP	1.6	30 ●
7	Creative outputs	19.1	124
7.1	Creative intangibles.....	30.3	110
7.1.1	Domestic res trademark reg/bn PPP\$ GDP.....	n/a	n/a
7.1.2	Madrid resident trademark reg/bn PPP\$ GDP.....	n/a	n/a
7.1.3	ICT & business model creation†.....	27.3	129
7.1.4	ICT & organizational model creation†.....	33.3	115
7.2	Creative goods & services	10.7	96
7.2.1	Recreation & culture consumption, %.....	n/a	n/a
7.2.2	National feature films/mn pop. 15–69.....	n/a	n/a
7.2.3	Paid-for dailies, circulation/th pop. 15–69.....	4.4	124
7.2.4	Creative goods exports, %.....	n/a	n/a
7.2.5	Creative services exports, %.....	4.7	40 ●
7.3	Online creativity.....	4.9	129
7.3.1	Generic top-level domains (TLDs)/th pop. 15–69.....	0.1	131
7.3.2	Country-code TLDs/th pop. 15–69.....	0.4	130
7.3.3	Wikipedia monthly edits/mn pop. 15–69.....	16.7	120
7.3.4	Video uploads on YouTube/pop. 15–69.....	18.9	121

Key indicators

Population (millions)	40.9
GDP per capita, PPP\$	17,376.1
GDP (US\$ billions)	435.2

	Score (0–100) or value (hard data)	Rank
Global Innovation Index 2012 (out of 141).....	34.4	70
Innovation Output Sub-Index	30.2	66
Innovation Input Sub-Index	38.7	76
Innovation Efficiency Index	0.8	51
Global Innovation Index 2011 (out of 125)	58	
GII 2012 rank among GII 2011 economies (125)	68	

1	Institutions.....	44.9	101
1.1	Political environment	61.4	59
1.1.1	Political stability*.....	65.1	69
1.1.2	Government effectiveness*.....	35.4	82
1.1.3	Press freedom*.....	83.8	41
1.2	Regulatory environment.....	44.6	125 ○
1.2.1	Regulatory quality*.....	34.2	120 ○
1.2.2	Rule of law*.....	32.5	100
1.2.3	Cost of redundancy dismissal, salary weeks.....	30.3	125 ○
1.3	Business environment	28.8	111
1.3.1	Ease of starting a business*.....	15.8	118 ○
1.3.2	Ease of resolving insolvency*.....	48.2	73
1.3.3	Ease of paying taxes*.....	22.3	108
2	Human capital & research.....	39.1	58
2.1	Education.....	59.7	38
2.1.1	Current expenditure on education, % GNI	6.0	18 ●
2.1.2	Public expenditure/pupil, % GDP/cap.....	19.8	60
2.1.3	School life expectancy, years.....	16.1	18 ●
2.1.4	PISA scales in reading, maths, & science.....	395.7	60 ○
2.1.5	Pupil-teacher ratio, secondary	10.9	38
2.2	Tertiary education	31.9	72
2.2.1	Tertiary enrolment, % gross.....	71.2	17 ●
2.2.2	Graduates in science & engineering, %	14.3	81
2.2.3	Tertiary inbound mobility, %.....	n/a	n/a
2.2.4	Gross tertiary outbound enrolment, %	0.3	116
2.3	Research & development (R&D).....	25.8	54
2.3.1	Researchers, headcounts/mn pop.	1,609.7	45
2.3.2	Gross expenditure on R&D, % GDP.....	0.5	54
2.3.3	Quality of scientific research institutions†.....	53.7	39
3	Infrastructure.....	37.3	57
3.1	Information & communication technologies (ICT).....	39.0	58
3.1.1	ICT access*.....	52.6	53
3.1.2	ICT use*	21.6	60
3.1.3	Government's online service*.....	52.9	59
3.1.4	E-participation*.....	29.0	52
3.2	General infrastructure	34.3	82
3.2.1	Electricity output, kWh/cap.....	3,036.4	59
3.2.2	Electricity consumption, kWh/cap.....	2,744.1	60
3.2.3	Quality of trade & transport infrastructure*.....	43.8	50
3.2.4	Gross capital formation, % GDP.....	22.0	75
3.3	Ecological sustainability	38.7	47
3.3.1	GDP/unit of energy use, 2000 PPP\$/kg oil eq.....	8.4	24 ●
3.3.2	Environmental performance*.....	56.5	49
3.3.3	ISO 14001 environmental certificates/bn PPP\$ GDP	1.3	54
4	Market sophistication	31.3	104
4.1	Credit	17.7	99
4.1.1	Ease of getting credit*	50.4	62
4.1.2	Domestic credit to private sector, % GDP.....	14.6	131 ○
4.1.3	Microfinance gross loans, % GDP.....	0.0	85 ○

4.2	Investment.....	19.3	84
4.2.1	Ease of protecting investors*.....	29.4	91
4.2.2	Market capitalization, % GDP.....	17.3	83
4.2.3	Total value of stocks traded, % GDP.....	0.7	78
4.2.4	Venture capital deals/tr PPP\$ GDP.....	9.8	48
4.3	Trade & competition	57.0	104
4.3.1	Applied tariff rate, weighted mean, %.....	6.2	94
4.3.2	Non-agricultural mkt access weighted tariff, %.....	0.3	37
4.3.3	Imports of goods & services, % GDP.....	18.4	136 ○
4.3.4	Exports of goods & services, % GDP.....	21.7	118 ○
4.3.5	Intensity of local competition†	54.3	101
5	Business sophistication	40.6	60
5.1	Knowledge workers.....	52.5	50
5.1.1	Knowledge-intensive employment, %.....	17.7	79
5.1.2	Firms offering formal training, % firms.....	63.6	9 ●
5.1.3	R&D performed by business, %.....	27.4	57
5.1.4	R&D financed by business, %	26.5	56
5.1.5	GMAT mean score.....	603.6	1 ●
5.1.6	GMAT test takers/mn pop. 20–34.....	31.7	102
5.2	Innovation linkages	25.6	122 ○
5.2.1	University/industry research collaboration†	48.0	45
5.2.2	State of cluster development†	38.3	81
5.2.3	R&D financed by abroad, %.....	0.6	87 ○
5.2.4	JV–strategic alliance deals/tr PPP\$ GDP	6.8	97
5.2.5	PCT patent filings with foreign inventor, %.....	28.6	67
5.3	Knowledge absorption	43.6	36
5.3.1	Royalty & license fees payments/th GDP.....	4.2	21 ●
5.3.2	High-tech imports less re-imports, %.....	15.0	20 ●
5.3.3	Computer & comm. service imports, %.....	34.8	56
5.3.4	FDI net inflows, % GDP.....	1.7	85
6	Knowledge & technology outputs	24.3	81
6.1	Knowledge creation.....	9.7	111
6.1.1	Domestic resident patent ap/bn PPP\$ GDP	1.7	58
6.1.2	PCT resident patent ap/bn PPP\$ GDP	n/a	n/a
6.1.3	Domestic res utility model ap/bn PPP\$ GDP.....	0.3	44
6.1.4	Scientific & technical articles/bn PPP\$ GDP.....	6.3	48
6.2	Knowledge impact	32.1	73
6.2.1	Growth rate of PPP\$ GDP/worker, %.....	4.4	26
6.2.2	New businesses/th pop. 15–64.....	0.5	84
6.2.3	Computer software spending, % GDP.....	0.1	59
6.2.4	ISO 9001 quality certificates/bn PPP\$ GDP	8.7	51
6.3	Knowledge diffusion	31.1	51
6.3.1	Royalty & license fees receipts/th GDP.....	0.4	50
6.3.2	High-tech exports less re-exports, %.....	2.5	55
6.3.3	Computer & comm. service exports, %	49.2	26
6.3.4	FDI net outflows, % GDP	0.3	67
7	Creative outputs	36.0	48
7.1	Creative intangibles.....	40.0	71
7.1.1	Domestic res trademark reg/bn PPP\$ GDP.....	n/a	n/a
7.1.2	Madrid resident trademark reg/bn PPP\$ GDP.....	n/a	n/a
7.1.3	ICT & business model creation†	53.4	61
7.1.4	ICT & organizational model creation†	26.5	127 ○
7.2	Creative goods & services	22.9	65
7.2.1	Recreation & culture consumption, %.....	5.0	54
7.2.2	National feature films/mn pop. 15–69.....	2.3	46
7.2.3	Paid-for dailies, circulation/th pop. 15–69.....	41.7	86
7.2.4	Creative goods exports, %.....	0.4	93
7.2.5	Creative services exports, %.....	12.3	12 ●
7.3	Online creativity.....	41.3	34
7.3.1	Generic top-level domains (TLDs)/th pop. 15–69.....	25.8	33
7.3.2	Country-code TLDs/th pop. 15–69.....	63.1	17 ●
7.3.3	Wikipedia monthly edits/mn pop. 15–69.....	2,296.9	47
7.3.4	Video uploads on YouTube/pop. 15–69.....	64.6	40

Armenia

Key indicators

Population (millions)	3.3
GDP per capita, PPP\$	5,395.3
GDP (US\$ billions)	10.2

	Score (0–100) or value (hard data)	Rank
Global Innovation Index 2012 (out of 141).....	34.5	69
Innovation Output Sub-Index	29.8	68
Innovation Input Sub-Index	39.1	73
Innovation Efficiency Index	0.8	57
Global Innovation Index 2011 (out of 125)	69	69
GII 2012 rank among GII 2011 economies (125)	67	67

1	Institutions.....	61.5	58
1.1	Political environment	59.3	63
1.1.1	Political stability*.....	65.9	65
1.1.2	Government effectiveness*.....	37.0	76
1.1.3	Press freedom*.....	75.0	60
1.2	Regulatory environment.....	70.5	52
1.2.1	Regulatory quality*.....	58.8	63
1.2.2	Rule of law*.....	35.3	86
1.2.3	Cost of redundancy dismissal, salary weeks.....	11.0	44
1.3	Business environment	54.6	61
1.3.1	Ease of starting a business*.....	87.0	19 ●
1.3.2	Ease of resolving insolvency*.....	65.4	49
1.3.3	Ease of paying taxes*.....	11.5	124
2	Human capital & research.....	32.5	76
2.1	Education.....	46.9	85
2.1.1	Current expenditure on education, % GNI	2.2	123 ○
2.1.2	Public expenditure/pupil, % GDP/cap.....	16.3	84
2.1.3	School life expectancy, years.....	12.2	85
2.1.4	PISA scales in reading, maths, & science.....	n/a	n/a
2.1.5	Pupil-teacher ratio, secondary	6.7	2 ●
2.2	Tertiary education	33.3	67
2.2.1	Tertiary enrolment, % gross.....	51.5	44
2.2.2	Graduates in science & engineering, %	15.9	72
2.2.3	Tertiary inbound mobility, %.....	2.6	50
2.2.4	Gross tertiary outbound enrolment, %	1.8	52
2.3	Research & development (R&D).....	17.4	89
2.3.1	Researchers, headcounts/mn pop.	1,796.4	42
2.3.2	Gross expenditure on R&D, % GDP.....	0.3	73
2.3.3	Quality of scientific research institutions†	32.8	104
3	Infrastructure.....	29.0	89
3.1	Information & communication technologies (ICT).....	22.2	99
3.1.1	ICT access*.....	40.7	72
3.1.2	ICT use*.....	15.5	74
3.1.3	Government's online service*.....	32.7	109
3.1.4	E-participation*.....	0.0	127 ○
3.2	General infrastructure	36.8	65
3.2.1	Electricity output, kWh/cap.....	1,735.8	81
3.2.2	Electricity consumption, kWh/cap.....	1,551.4	79
3.2.3	Quality of trade & transport infrastructure*.....	33.0	92
3.2.4	Gross capital formation, % GDP.....	33.4	12 ●
3.3	Ecological sustainability	28.1	80
3.3.1	GDP/unit of energy use, 2000 PPP\$/kg oil eq.....	6.0	53
3.3.2	Environmental performance*.....	47.5	89
3.3.3	ISO 14001 environmental certificates/bn PPP\$ GDP.....	0.5	81
4	Market sophistication	37.8	72
4.1	Credit	42.9	40
4.1.1	Ease of getting credit*.....	57.7	43
4.1.2	Domestic credit to private sector, % GDP.....	26.5	100
4.1.3	Microfinance gross loans, % GDP.....	5.3	6 ●

4.2	Investment.....	9.0	115
4.2.1	Ease of protecting investors*.....	35.9	76
4.2.2	Market capitalization, % GDP.....	0.3	106 ○
4.2.3	Total value of stocks traded, % GDP.....	0.0	107 ○
4.2.4	Venture capital deals/tr PPP\$ GDP.....	0.0	65 ○
4.3	Trade & competition	61.6	79
4.3.1	Applied tariff rate, weighted mean, %.....	2.3	44
4.3.2	Non-agricultural mkt access weighted tariff, %.....	0.1	20 ●
4.3.3	Imports of goods & services, % GDP.....	44.8	56
4.3.4	Exports of goods & services, % GDP.....	20.6	125
4.3.5	Intensity of local competition†	39.3	131 ○
5	Business sophistication	34.8	90
5.1	Knowledge workers.....	46.2	65
5.1.1	Knowledge-intensive employment, %.....	24.1	53
5.1.2	Firms offering formal training, % firms.....	30.4	65
5.1.3	R&D performed by business, %.....	n/a	n/a
5.1.4	R&D financed by business, %	n/a	n/a
5.1.5	GMAT mean score.....	471.8	94
5.1.6	GMAT test takers/mn pop. 20–34.....	265.8	23 ●
5.2	Innovation linkages	30.1	98
5.2.1	University/industry research collaboration†	28.1	119 ○
5.2.2	State of cluster development†	33.9	102
5.2.3	R&D financed by abroad, %.....	4.2	65
5.2.4	JV–strategic alliance deals/tr PPP\$ GDP	0.0	114 ○
5.2.5	PCT patent filings with foreign inventor, %.....	100.0	1 ●
5.3	Knowledge absorption	28.1	104
5.3.1	Royalty & license fees payments/th GDP.....	n/a	n/a
5.3.2	High-tech imports less re-imports, %	6.6	86
5.3.3	Computer & comm. service imports, %.....	8.3	128 ○
5.3.4	FDI net inflows, % GDP.....	6.1	32 ●
6	Knowledge & technology outputs	31.7	54
6.1	Knowledge creation.....	37.1	34
6.1.1	Domestic resident patent ap/bn PPP\$ GDP	8.4	24 ●
6.1.2	PCT resident patent ap/bn PPP\$ GDP	0.3	47
6.1.3	Domestic res utility model ap/bn PPP\$ GDP.....	2.4	16
6.1.4	Scientific & technical articles/bn PPP\$ GDP.....	10.1	36
6.2	Knowledge impact	31.8	75
6.2.1	Growth rate of PPP\$ GDP/worker, %.....	2.9	54
6.2.2	New businesses/th pop. 15–64.....	1.3	54
6.2.3	Computer software spending, % GDP.....	n/a	n/a
6.2.4	ISO 9001 quality certificates/bn PPP\$ GDP	3.6	75
6.3	Knowledge diffusion	26.1	69
6.3.1	Royalty & license fees receipts/th GDP.....	n/a	n/a
6.3.2	High-tech exports less re-exports, %.....	0.7	82
6.3.3	Computer & comm. service exports, %	21.0	91
6.3.4	FDI net outflows, % GDP	0.1	84
7	Creative outputs	28.0	89
7.1	Creative intangibles.....	37.1	83
7.1.1	Domestic res trademark reg/bn PPP\$ GDP.....	87.6	16 ●
7.1.2	Madrid resident trademark reg/bn PPP\$ GDP.....	0.7	29
7.1.3	ICT & business model creation†	44.6	92
7.1.4	ICT & organizational model creation†	47.3	71
7.2	Creative goods & services	12.4	92
7.2.1	Recreation & culture consumption, %.....	0.4	99 ○
7.2.2	National feature films/mn pop. 15–69.....	2.3	45
7.2.3	Paid-for dailies, circulation/th pop. 15–69.....	19.2	103
7.2.4	Creative goods exports, %.....	1.6	53
7.2.5	Creative services exports, %.....	5.3	38
7.3	Online creativity.....	25.5	55
7.3.1	Generic top-level domains (TLDs)/th pop. 15–69.....	3.5	68
7.3.2	Country-code TLDs/th pop. 15–69.....	30.3	56
7.3.3	Wikipedia monthly edits/mn pop. 15–69.....	1,826.0	53
7.3.4	Video uploads on YouTube/pop. 15–69.....	59.0	60

Key indicators

Population (millions)	22.5
GDP per capita, PPP\$	40,836.4
GDP (US\$ billions)	1,507.4

	Score (0–100) or value (hard data)	Rank
Global Innovation Index 2012 (out of 141).....	51.9	23
Innovation Output Sub-Index	40.4	31
Innovation Input Sub-Index	63.4	13
Innovation Efficiency Index	0.6	107 ○
Global Innovation Index 2011 (out of 125)	21	
GII 2012 rank among GII 2011 economies (125)	22	

1	Institutions.....	90.0	10 ●
1.1	Political environment	88.1	12
1.1.1	Political stability*.....	85.0	26
1.1.2	Government effectiveness*.....	88.7	9 ●
1.1.3	Press freedom*.....	90.5	27
1.2	Regulatory environment.....	93.5	14
1.2.1	Regulatory quality*.....	93.8	11
1.2.2	Rule of law*.....	94.7	11
1.2.3	Cost of redundancy dismissal, salary weeks.....	11.7	49
1.3	Business environment	88.4	8 ●
1.3.1	Ease of starting a business*.....	99.2	2 ●
1.3.2	Ease of resolving insolvency*.....	92.8	11
1.3.3	Ease of paying taxes*.....	73.3	38
2	Human capital & research.....	53.3	24
2.1	Education.....	59.4	39
2.1.1	Current expenditure on education, % GNI	4.5	53
2.1.2	Public expenditure/pupil, % GDP/cap.....	19.1	66 ○
2.1.3	School life expectancy, years.....	19.2	2 ●
2.1.4	PISA scales in reading, maths, & science.....	518.8	9
2.1.5	Pupil-teacher ratio, secondary	n/a	n/a
2.2	Tertiary education	46.8	29
2.2.1	Tertiary enrolment, % gross.....	75.9	11
2.2.2	Graduates in science & engineering, %	17.7	64 ○
2.2.3	Tertiary inbound mobility, %.....	21.5	8
2.2.4	Gross tertiary outbound enrolment, %	0.6	88 ○
2.3	Research & development (R&D).....	53.6	16
2.3.1	Researchers, headcounts/mn pop.	4,224.3	22
2.3.2	Gross expenditure on R&D, % GDP.....	2.3	13
2.3.3	Quality of scientific research institutions†.....	74.7	13
3	Infrastructure.....	56.3	13
3.1	Information & communication technologies (ICT).....	75.1	11
3.1.1	ICT access*.....	72.2	23
3.1.2	ICT use*	65.7	9 ●
3.1.3	Government's online service*.....	86.3	9
3.1.4	E-participation*.....	76.3	8 ●
3.2	General infrastructure	60.2	9 ●
3.2.1	Electricity output, kWh/cap.....	11,526.8	11
3.2.2	Electricity consumption, kWh/cap.....	10,789.8	12
3.2.3	Quality of trade & transport infrastructure*.....	69.5	18
3.2.4	Gross capital formation, % GDP.....	27.5	25
3.3	Ecological sustainability	33.6	59
3.3.1	GDP/unit of energy use, 2000 PPP\$/kg oil eq.....	5.7	60
3.3.2	Environmental performance*.....	56.6	47
3.3.3	ISO 14001 environmental certificates/bn PPP\$ GDP	1.7	49
4	Market sophistication	63.2	11
4.1	Credit	65.6	12
4.1.1	Ease of getting credit*	87.6	8
4.1.2	Domestic credit to private sector, % GDP.....	127.8	19
4.1.3	Microfinance gross loans, % GDP	n/a	n/a

4.2	Investment.....	57.4	11
4.2.1	Ease of protecting investors*.....	58.2	48
4.2.2	Market capitalization, % GDP.....	136.1	11
4.2.3	Total value of stocks traded, % GDP.....	82.4	11
4.2.4	Venture capital deals/tr PPP\$ GDP.....	59.8	21
4.3	Trade & competition	66.7	51
4.3.1	Applied tariff rate, weighted mean, %.....	1.9	42
4.3.2	Non-agricultural mkt access weighted tariff, %.....	1.0	73
4.3.3	Imports of goods & services, % GDP	21.6	131 ○
4.3.4	Exports of goods & services, % GDP	19.8	126 ○
4.3.5	Intensity of local competition†	81.2	6 ●
5	Business sophistication	54.0	20
5.1	Knowledge workers.....	79.0	7 ●
5.1.1	Knowledge-intensive employment, %.....	42.9	11
5.1.2	Firms offering formal training, % firms.....	n/a	n/a
5.1.3	R&D performed by business, %.....	60.8	22
5.1.4	R&D financed by business, %	61.4	13
5.1.5	GMAT mean score.....	590.5	6 ●
5.1.6	GMAT test takers/mn pop. 20–34.....	171.8	33
5.2	Innovation linkages	45.3	36
5.2.1	University/industry research collaboration†	69.2	13
5.2.2	State of cluster development†	49.4	36
5.2.3	R&D financed by abroad, %.....	1.7	76 ○
5.2.4	JV–strategic alliance deals/tr PPP\$ GDP	154.5	6 ●
5.2.5	PCT patent filings with foreign inventor, %.....	29.0	66 ○
5.3	Knowledge absorption	37.8	61
5.3.1	Royalty & license fees payments/th GDP.....	2.9	34
5.3.2	High-tech imports less re-imports, %	13.9	25
5.3.3	Computer & comm. service imports, %.....	26.7	75
5.3.4	FDI net inflows, % GDP	2.9	60
6	Knowledge & technology outputs	34.9	43
6.1	Knowledge creation.....	43.7	31
6.1.1	Domestic resident patent ap/bn PPP\$ GDP	2.7	46
6.1.2	PCT resident patent ap/bn PPP\$ GDP	1.9	23
6.1.3	Domestic res utility model ap/bn PPP\$ GDP.....	1.3	26
6.1.4	Scientific & technical articles/bn PPP\$ GDP.....	22.2	10 ●
6.2	Knowledge impact	37.8	50
6.2.1	Growth rate of PPP\$ GDP/worker, %.....	1.0	93 ○
6.2.2	New businesses/th pop. 15–64.....	6.4	14
6.2.3	Computer software spending, % GDP.....	0.3	30
6.2.4	ISO 9001 quality certificates/bn PPP\$ GDP	9.9	47
6.3	Knowledge diffusion	23.3	83 ○
6.3.1	Royalty & license fees receipts/th GDP.....	0.7	38
6.3.2	High-tech exports less re-exports, %.....	2.2	59
6.3.3	Computer & comm. service exports, %	22.5	84 ○
6.3.4	FDI net outflows, % GDP	1.7	27
7	Creative outputs	45.9	23
7.1	Creative intangibles.....	43.4	59
7.1.1	Domestic res trademark reg/bn PPP\$ GDP.....	47.0	36
7.1.2	Madrid resident trademark reg/bn PPP\$ GDP.....	1.1	20
7.1.3	ICT & business model creation†	65.4	23
7.1.4	ICT & organizational model creation†	63.0	21
7.2	Creative goods & services	33.7	37
7.2.1	Recreation & culture consumption, %.....	11.3	6 ●
7.2.2	National feature films/mn pop. 15–69.....	2.9	38
7.2.3	Paid-for dailies, circulation/th pop. 15–69.....	158.3	33
7.2.4	Creative goods exports, %.....	0.5	89 ○
7.2.5	Creative services exports, %.....	7.1	29
7.3	Online creativity.....	63.4	12
7.3.1	Generic top-level domains (TLDs)/th pop. 15–69.....	73.9	11
7.3.2	Country-code TLDs/th pop. 15–69.....	69.7	15
7.3.3	Wikipedia monthly edits/mn pop. 15–69.....	6,958.9	24
7.3.4	Video uploads on YouTube/pop. 15–69	74.5	15

Austria

Key indicators

Population (millions)	8.4
GDP per capita, PPP\$	41,805.1
GDP (US\$ billions)	425.1

	Score (0–100) or value (hard data)	Rank
Global Innovation Index 2012 (out of 141).....	53.1	22
Innovation Output Sub-Index	46.7	21
Innovation Input Sub-Index	59.5	21
Innovation Efficiency Index	0.8	48
Global Innovation Index 2011 (out of 125)		19
GII 2012 rank among GII 2011 economies (125)		21

1	Institutions.....	82.3	21
1.1	Political environment	93.6	7 ●
1.1.1	Political stability*.....	91.6	9 ●
1.1.2	Government effectiveness*.....	90.5	6 ●
1.1.3	Press freedom*.....	98.6	5 ●
1.2	Regulatory environment.....	96.4	9 ●
1.2.1	Regulatory quality*.....	90.4	15
1.2.2	Rule of law*.....	95.4	8 ●
1.2.3	Cost of redundancy dismissal, salary weeks.....	8.0	1 ●
1.3	Business environment	56.8	56
1.3.1	Ease of starting a business*.....	26.6	103 ○
1.3.2	Ease of resolving insolvency*.....	87.7	18
1.3.3	Ease of paying taxes*.....	56.1	62
2	Human capital & research.....	58.9	9 ●
2.1	Education.....	64.5	18
2.1.1	Current expenditure on education, % GNI	5.2	33
2.1.2	Public expenditure/pupil, % GDP/cap.....	26.9	17
2.1.3	School life expectancy, years.....	15.3	28
2.1.4	PISA scales in reading, maths, & science.....	486.8	29
2.1.5	Pupil-teacher ratio, secondary	10.3	31
2.2	Tertiary education	57.3	7 ●
2.2.1	Tertiary enrolment, % gross.....	60.2	32
2.2.2	Graduates in science & engineering, %	28.7	12
2.2.3	Tertiary inbound mobility, %.....	19.4	9
2.2.4	Gross tertiary outbound enrolment, %	2.3	39
2.3	Research & development (R&D).....	54.9	14
2.3.1	Researchers, headcounts/mn pop.	4,123.3	24
2.3.2	Gross expenditure on R&D, % GDP.....	2.7	10
2.3.3	Quality of scientific research institutions†	69.7	20
3	Infrastructure.....	53.4	23
3.1	Information & communication technologies (ICT).....	62.0	24
3.1.1	ICT access*.....	76.8	14
3.1.2	ICT use*.....	59.9	16
3.1.3	Government's online service*.....	74.5	26
3.1.4	E-participation*.....	36.8	41
3.2	General infrastructure	50.5	26
3.2.1	Electricity output, kWh/cap.....	7,989.5	25
3.2.2	Electricity consumption, kWh/cap.....	8,312.0	18
3.2.3	Quality of trade & transport infrastructure*.....	67.0	21
3.2.4	Gross capital formation, % GDP.....	21.6	76
3.3	Ecological sustainability	47.8	20
3.3.1	GDP/unit of energy use, 2000 PPP\$/kg oil eq.....	8.1	29
3.3.2	Environmental performance*.....	68.9	7 ●
3.3.3	ISO 14001 environmental certificates/bn PPP\$ GDP.....	3.5	25
4	Market sophistication	51.8	30
4.1	Credit	59.5	19
4.1.1	Ease of getting credit*.....	77.4	21
4.1.2	Domestic credit to private sector, % GDP.....	122.4	22
4.1.3	Microfinance gross loans, % GDP.....	n/a	n/a

4.2	Investment.....	25.2	69
4.2.1	Ease of protecting investors*.....	15.8	110 ○
4.2.2	Market capitalization, % GDP.....	18.0	80 ○
4.2.3	Total value of stocks traded, % GDP.....	12.8	46
4.2.4	Venture capital deals/tr PPP\$ GDP.....	56.8	24
4.3	Trade & competition	70.7	25
4.3.1	Applied tariff rate, weighted mean, %.....	1.6	11
4.3.2	Non-agricultural mkt access weighted tariff, %.....	2.0	92 ○
4.3.3	Imports of goods & services, % GDP.....	49.7	49
4.3.4	Exports of goods & services, % GDP.....	54.0	36
4.3.5	Intensity of local competition†	80.0	7 ●
5	Business sophistication	50.9	29
5.1	Knowledge workers.....	72.1	20
5.1.1	Knowledge-intensive employment, %.....	36.7	26
5.1.2	Firms offering formal training, % firms.....	n/a	n/a
5.1.3	R&D performed by business, %.....	70.6	11
5.1.4	R&D financed by business, %	43.3	37
5.1.5	GMAT mean score.....	573.0	20
5.1.6	GMAT test takers/mn pop. 20–34.....	177.7	31
5.2	Innovation linkages	43.7	42
5.2.1	University/industry research collaboration†	66.6	18
5.2.2	State of cluster development†	58.3	23
5.2.3	R&D financed by abroad, %.....	15.0	19
5.2.4	JV–strategic alliance deals/tr PPP\$ GDP	14.0	78
5.2.5	PCT patent filings with foreign inventor, %.....	32.9	63 ○
5.3	Knowledge absorption	36.7	62
5.3.1	Royalty & license fees payments/th GDP.....	3.7	27
5.3.2	High-tech imports less re-imports, %	10.8	44
5.3.3	Computer & comm. service imports, %.....	37.6	44
5.3.4	FDI net inflows, % GDP.....	-7.0	140 ○
6	Knowledge & technology outputs	41.4	28
6.1	Knowledge creation.....	50.8	22
6.1.1	Domestic resident patent ap/bn PPP\$ GDP	12.5	13
6.1.2	PCT resident patent ap/bn PPP\$ GDP.....	3.8	11
6.1.3	Domestic res utility model ap/bn PPP\$ GDP.....	2.0	18
6.1.4	Scientific & technical articles/bn PPP\$ GDP.....	15.0	26
6.2	Knowledge impact	38.9	48
6.2.1	Growth rate of PPP\$ GDP/worker, %.....	1.3	90 ○
6.2.2	New businesses/th pop. 15–64.....	0.6	79 ○
6.2.3	Computer software spending, % GDP.....	0.8	11
6.2.4	ISO 9001 quality certificates/bn PPP\$ GDP	15.5	35
6.3	Knowledge diffusion	34.4	42
6.3.1	Royalty & license fees receipts/th GDP.....	1.7	23
6.3.2	High-tech exports less re-exports, %.....	10.9	25
6.3.3	Computer & comm. service exports, %	38.0	45
6.3.4	FDI net outflows, % GDP	-5.4	116 ○
7	Creative outputs	52.1	12
7.1	Creative intangibles.....	46.1	42
7.1.1	Domestic res trademark reg/bn PPP\$ GDP.....	24.5	57 ○
7.1.2	Madrid resident trademark reg/bn PPP\$ GDP.....	2.7	6
7.1.3	ICT & business model creation†	61.3	36
7.1.4	ICT & organizational model creation†	54.1	45
7.2	Creative goods & services	54.6	5 ●
7.2.1	Recreation & culture consumption, %.....	11.4	4 ●
7.2.2	National feature films/mn pop. 15–69.....	5.9	20
7.2.3	Paid-for dailies, circulation/th pop. 15–69.....	377.3	8 ●
7.2.4	Creative goods exports, %.....	3.5	22
7.2.5	Creative services exports, %.....	10.9	17
7.3	Online creativity.....	61.7	15
7.3.1	Generic top-level domains (TLDs)/th pop. 15–69.....	72.9	13
7.3.2	Country-code TLDs/th pop. 15–69.....	72.8	10 ●
7.3.3	Wikipedia monthly edits/mn pop. 15–69.....	6,526.8	27
7.3.4	Video uploads on YouTube/pop. 15–69.....	68.1	31

Key indicators

Population (millions)	9.1
GDP per capita, PPP\$	10,216.7
GDP (US\$ billions)	68.5

	Score (0–100) or value (hard data)	Rank
Global Innovation Index 2012 (out of 141).....	30.4	89
Innovation Output Sub-Index	24.0	94
Innovation Input Sub-Index	36.8	85
Innovation Efficiency Index	0.7	100
Global Innovation Index 2011 (out of 125)	88	
GII 2012 rank among GII 2011 economies (125)	84	

1	Institutions.....	49.5	91
1.1	Political environment	37.0	124
1.1.1	Political stability*.....	57.9	88
1.1.2	Government effectiveness*.....	18.9	123
1.1.3	Press freedom*.....	34.3	129 ○
1.2	Regulatory environment.....	52.7	110
1.2.1	Regulatory quality*.....	40.5	103
1.2.2	Rule of law*.....	24.3	117
1.2.3	Cost of redundancy dismissal, salary weeks.....	21.7	95
1.3	Business environment	58.7	51
1.3.1	Ease of starting a business*.....	89.9	15 ●
1.3.2	Ease of resolving insolvency*.....	40.2	84
1.3.3	Ease of paying taxes*.....	46.0	76
2	Human capital & research.....	30.0	91
2.1	Education.....	45.5	89
2.1.1	Current expenditure on education, % GNI	3.4	93
2.1.2	Public expenditure/pupil, % GDP/cap.....	15.1	89
2.1.3	School life expectancy, years.....	11.7	95
2.1.4	PISA scales in reading, maths, & science.....	388.6	62
2.1.5	Pupil-teacher ratio, secondary	7.8	8 ●
2.2	Tertiary education	26.9	84
2.2.1	Tertiary enrolment, % gross.....	19.3	88
2.2.2	Graduates in science & engineering, %	16.6	70
2.2.3	Tertiary inbound mobility, %.....	3.2	44
2.2.4	Gross tertiary outbound enrolment, %	1.1	70
2.3	Research & development (R&D).....	17.7	87
2.3.1	Researchers, headcounts/mn pop.	1,217.8	51
2.3.2	Gross expenditure on R&D, % GDP.....	0.3	75
2.3.3	Quality of scientific research institutions†	38.6	84
3	Infrastructure.....	26.2	103
3.1	Information & communication technologies (ICT).....	27.0	88
3.1.1	ICT access*.....	42.8	70
3.1.2	ICT use*	15.3	75
3.1.3	Government's online service*.....	36.6	99
3.1.4	E-participation*.....	13.2	83
3.2	General infrastructure	24.9	124
3.2.1	Electricity output, kWh/cap.....	2,101.9	72
3.2.2	Electricity consumption, kWh/cap.....	1,651.2	75
3.2.3	Quality of trade & transport infrastructure*	30.8	100
3.2.4	Gross capital formation, % GDP.....	17.1	117
3.3	Ecological sustainability	26.8	90
3.3.1	GDP/unit of energy use, 2000 PPP\$/kg oil eq.....	6.4	48
3.3.2	Environmental performance*.....	43.1	106
3.3.3	ISO 14001 environmental certificates/bn PPP\$ GDP	0.2	107
4	Market sophistication	44.9	43 ●
4.1	Credit	29.9	72
4.1.1	Ease of getting credit*	57.7	43
4.1.2	Domestic credit to private sector, % GDP.....	18.3	121
4.1.3	Microfinance gross loans, % GDP	2.3	21 ●

4.2	Investment.....	41.0	30 ●
4.2.1	Ease of protecting investors*.....	82.0	20 ●
4.2.2	Market capitalization, % GDP.....	n/a	n/a
4.2.3	Total value of stocks traded, % GDP.....	n/a	n/a
4.2.4	Venture capital deals/tr PPP\$ GDP.....	0.0	65 ○
4.3	Trade & competition	63.8	68
4.3.1	Applied tariff rate, weighted mean, %.....	3.9	67
4.3.2	Non-agricultural mkt access weighted tariff, %.....	0.0	10 ●
4.3.3	Imports of goods & services, % GDP	20.4	133 ○
4.3.4	Exports of goods & services, % GDP	55.1	32 ●
4.3.5	Intensity of local competition†	46.5	120 ○
5	Business sophistication	33.5	102
5.1	Knowledge workers.....	34.3	108
5.1.1	Knowledge-intensive employment, %.....	20.3	66
5.1.2	Firms offering formal training, % firms.....	10.5	102 ○
5.1.3	R&D performed by business, %.....	22.0	64
5.1.4	R&D financed by business, %	24.8	58
5.1.5	GMAT mean score.....	543.5	44 ●
5.1.6	GMAT test takers/mn pop. 20–34.....	57.5	74
5.2	Innovation linkages	27.4	112
5.2.1	University/industry research collaboration†	35.9	103
5.2.2	State of cluster development†	40.2	72
5.2.3	R&D financed by abroad, %.....	0.1	92 ○
5.2.4	JV–strategic alliance deals/tr PPP\$ GDP	31.1	48
5.2.5	PCT patent filings with foreign inventor, %.....	50.0	48
5.3	Knowledge absorption	38.7	58
5.3.1	Royalty & license fees payments/th GDP.....	0.3	100
5.3.2	High-tech imports less re-imports, %	8.1	70
5.3.3	Computer & comm. service imports, %.....	61.1	8 ●
5.3.4	FDI net inflows, % GDP	1.1	108
6	Knowledge & technology outputs	20.5	103
6.1	Knowledge creation.....	11.2	108
6.1.1	Domestic resident patent ap/bn PPP\$ GDP	0.2	97
6.1.2	PCT resident patent ap/bn PPP\$ GDP	0.0	94
6.1.3	Domestic res utility model ap/bn PPP\$ GDP.....	0.1	57 ○
6.1.4	Scientific & technical articles/bn PPP\$ GDP.....	1.8	88
6.2	Knowledge impact	25.3	103
6.2.1	Growth rate of PPP\$ GDP/worker, %.....	2.3	62
6.2.2	New businesses/th pop. 15–64.....	0.9	62
6.2.3	Computer software spending, % GDP.....	n/a	n/a
6.2.4	ISO 9001 quality certificates/bn PPP\$ GDP	1.1	113
6.3	Knowledge diffusion	25.1	74
6.3.1	Royalty & license fees receipts/th GDP.....	0.0	97 ○
6.3.2	High-tech exports less re-exports, %.....	0.0	115 ○
6.3.3	Computer & comm. service exports, %	38.4	43 ●
6.3.4	FDI net outflows, % GDP	0.4	59
7	Creative outputs	27.5	91
7.1	Creative intangibles.....	41.0	68
7.1.1	Domestic res trademark reg/bn PPP\$ GDP.....	n/a	n/a
7.1.2	Madrid resident trademark reg/bn PPP\$ GDP.....	0.1	54
7.1.3	ICT & business model creation†	54.6	57
7.1.4	ICT & organizational model creation†	66.9	13 ●
7.2	Creative goods & services	10.8	95
7.2.1	Recreation & culture consumption, %.....	3.6	66
7.2.2	National feature films/mn pop. 15–69.....	2.4	44
7.2.3	Paid-for dailies, circulation/th pop. 15–69.....	18.0	106
7.2.4	Creative goods exports, %.....	0.0	128 ○
7.2.5	Creative services exports, %.....	2.8	53
7.3	Online creativity.....	17.0	87
7.3.1	Generic top-level domains (TLDs)/th pop. 15–69.....	0.8	103
7.3.2	Country-code TLDs/th pop. 15–69.....	15.0	82
7.3.3	Wikipedia monthly edits/mn pop. 15–69.....	1,615.2	54
7.3.4	Video uploads on YouTube/pop. 15–69	44.1	90

Bahrain

Key indicators

Population (millions)	1.1
GDP per capita, PPP\$	27,368.4
GDP (US\$ billions)	26.4

	Score (0–100) or value (hard data)	Rank
Global Innovation Index 2012 (out of 141).....	41.1	41
Innovation Output Sub-Index	30.8	60
Innovation Input Sub-Index	51.4	35
Innovation Efficiency Index	0.6	125 ○
Global Innovation Index 2011 (out of 125)	46	46
GII 2012 rank among GII 2011 economies (125)	40	40

1	Institutions.....	66.7	48
1.1	Political environment	40.8	115 ○
1.1.1	Political stability*.....	57.1	89
1.1.2	Government effectiveness*.....	56.6	44
1.1.3	Press freedom*.....	8.8	137 ○
1.2	Regulatory environment.....	82.7	31
1.2.1	Regulatory quality*.....	71.3	39
1.2.2	Rule of law*.....	59.7	47
1.2.3	Cost of redundancy dismissal, salary weeks.....	8.0	1 ●
1.3	Business environment	76.4	21
1.3.1	Ease of starting a business*.....	55.3	62
1.3.2	Ease of resolving insolvency*.....	83.4	24
1.3.3	Ease of paying taxes*.....	90.6	14
2	Human capital & research.....	54.7	18
2.1	Education.....	54.6	57
2.1.1	Current expenditure on education, % GNI	3.0	106 ○
2.1.2	Public expenditure/pupil, % GDP/cap.....	n/a	n/a
2.1.3	School life expectancy, years.....	n/a	n/a
2.1.4	PISA scales in reading, maths, & science.....	n/a	n/a
2.1.5	Pupil-teacher ratio, secondary	12.4	52
2.2	Tertiary education	74.1	2 ●
2.2.1	Tertiary enrolment, % gross.....	51.2	46
2.2.2	Graduates in science & engineering, %	n/a	n/a
2.2.3	Tertiary inbound mobility, %.....	24.1	6 ●
2.2.4	Gross tertiary outbound enrolment, %	8.0	5 ●
2.3	Research & development (R&D).....	35.4	34
2.3.1	Researchers, headcounts/mn pop.	n/a	n/a
2.3.2	Gross expenditure on R&D, % GDP.....	n/a	n/a
2.3.3	Quality of scientific research institutions†	35.4	99
3	Infrastructure.....	44.7	37
3.1	Information & communication technologies (ICT).....	62.9	22
3.1.1	ICT access*.....	67.3	33
3.1.2	ICT use*.....	32.2	44
3.1.3	Government's online service*.....	86.3	9 ●
3.1.4	E-participation*.....	65.8	19
3.2	General infrastructure	63.5	7 ●
3.2.1	Electricity output, kWh/cap.....	11,603.5	10 ●
3.2.2	Electricity consumption, kWh/cap.....	13,624.5	10 ●
3.2.3	Quality of trade & transport infrastructure*.....	59.0	29
3.2.4	Gross capital formation, % GDP.....	33.2	13
3.3	Ecological sustainability	7.8	126 ○
3.3.1	GDP/unit of energy use, 2000 PPP\$/kg oil eq.....	1.9	117 ○
3.3.2	Environmental performance*.....	n/a	n/a
3.3.3	ISO 14001 environmental certificates/bn PPP\$ GDP.....	1.3	56
4	Market sophistication	45.8	40
4.1	Credit	23.6	87
4.1.1	Ease of getting credit*.....	21.1	104 ○
4.1.2	Domestic credit to private sector, % GDP.....	79.6	43
4.1.3	Microfinance gross loans, % GDP.....	n/a	n/a

4.2	Investment.....	34.9	45
4.2.1	Ease of protecting investors*.....	46.7	60
4.2.2	Market capitalization, % GDP.....	82.2	24
4.2.3	Total value of stocks traded, % GDP.....	4.2	57
4.2.4	Venture capital deals/tr PPP\$ GDP.....	32.4	34
4.3	Trade & competition	78.9	5 ●
4.3.1	Applied tariff rate, weighted mean, %.....	3.6	60
4.3.2	Non-agricultural mkt access weighted tariff, %.....	1.0	74
4.3.3	Imports of goods & services, % GDP.....	74.3	17
4.3.4	Exports of goods & services, % GDP.....	96.8	6 ●
4.3.5	Intensity of local competition†	74.2	23
5	Business sophistication	45.3	40
5.1	Knowledge workers.....	41.8	79
5.1.1	Knowledge-intensive employment, %.....	20.7	64
5.1.2	Firms offering formal training, % firms.....	n/a	n/a
5.1.3	R&D performed by business, %.....	n/a	n/a
5.1.4	R&D financed by business, %	n/a	n/a
5.1.5	GMAT mean score.....	415.8	122 ○
5.1.6	GMAT test takers/mn pop. 20–34.....	122.7	44
5.2	Innovation linkages	65.9	5 ●
5.2.1	University/industry research collaboration†	38.9	84
5.2.2	State of cluster development†	58.7	21
5.2.3	R&D financed by abroad, %.....	n/a	n/a
5.2.4	JV–strategic alliance deals/tr PPP\$ GDP	339.5	1 ●
5.2.5	PCT patent filings with foreign inventor, %.....	100.0	1 ●
5.3	Knowledge absorption	28.1	103
5.3.1	Royalty & license fees payments/th GDP.....	n/a	n/a
5.3.2	High-tech imports less re-imports, %	7.7	75
5.3.3	Computer & comm. service imports, %.....	11.5	120 ○
5.3.4	FDI net inflows, % GDP.....	1.2	105
6	Knowledge & technology outputs	27.4	65
6.1	Knowledge creation.....	19.3	79
6.1.1	Domestic resident patent ap/bn PPP\$ GDP	n/a	n/a
6.1.2	PCT resident patent ap/bn PPP\$ GDP.....	0.0	98 ○
6.1.3	Domestic res utility model ap/bn PPP\$ GDP.....	n/a	n/a
6.1.4	Scientific & technical articles/bn PPP\$ GDP.....	1.3	105
6.2	Knowledge impact	39.7	47
6.2.1	Growth rate of PPP\$ GDP/worker, %.....	2.1	68
6.2.2	New businesses/th pop. 15–64.....	n/a	n/a
6.2.3	Computer software spending, % GDP.....	n/a	n/a
6.2.4	ISO 9001 quality certificates/bn PPP\$ GDP	5.9	63
6.3	Knowledge diffusion	23.3	84
6.3.1	Royalty & license fees receipts/th GDP.....	n/a	n/a
6.3.2	High-tech exports less re-exports, %.....	0.0	117 ○
6.3.3	Computer & comm. service exports, %	25.4	73
6.3.4	FDI net outflows, % GDP	–8.7	117 ○
7	Creative outputs	34.2	62
7.1	Creative intangibles.....	44.5	51
7.1.1	Domestic res trademark reg/bn PPP\$ GDP.....	2.0	83 ○
7.1.2	Madrid resident trademark reg/bn PPP\$ GDP.....	n/a	n/a
7.1.3	ICT & business model creation†	59.6	40
7.1.4	ICT & organizational model creation†	73.1	6 ●
7.2	Creative goods & services	28.0	54
7.2.1	Recreation & culture consumption, %.....	6.7	41
7.2.2	National feature films/mn pop. 15–69.....	n/a	n/a
7.2.3	Paid-for dailies, circulation/th pop. 15–69.....	207.1	24
7.2.4	Creative goods exports, %.....	0.3	94
7.2.5	Creative services exports, %.....	n/a	n/a
7.3	Online creativity.....	19.6	75
7.3.1	Generic top-level domains (TLDs)/th pop. 15–69.....	3.0	73
7.3.2	Country-code TLDs/th pop. 15–69.....	8.4	101
7.3.3	Wikipedia monthly edits/mn pop. 15–69.....	1,006.7	63
7.3.4	Video uploads on YouTube/pop. 15–69.....	61.7	53

Key indicators

Population (millions)	166.7
GDP per capita, PPP\$	1,697.3
GDP (US\$ billions)	115.0

	Score (0–100) or value (hard data)	Rank
Global Innovation Index 2012 (out of 141).....	26.1	112
Innovation Output Sub-Index	22.6	104
Innovation Input Sub-Index	29.5	118
Innovation Efficiency Index	0.8	56 ●
Global Innovation Index 2011 (out of 125)	97	
GII 2012 rank among GII 2011 economies (125)	104	

1	Institutions.....	40.5	115
1.1	Political environment	34.8	127
1.1.1	Political stability*.....	30.9	128
1.1.2	Government effectiveness*.....	18.8	124
1.1.3	Press freedom*.....	54.7	104
1.2	Regulatory environment.....	41.5	130
1.2.1	Regulatory quality*.....	29.9	125
1.2.2	Rule of law*.....	27.4	108
1.2.3	Cost of redundancy dismissal, salary weeks.....	31.0	127
1.3	Business environment	45.0	81
1.3.1	Ease of starting a business*.....	54.6	64
1.3.2	Ease of resolving insolvency*.....	30.9	97
1.3.3	Ease of paying taxes*.....	49.6	71
2	Human capital & research.....	19.2	127
2.1	Education.....	20.8	138 ○
2.1.1	Current expenditure on education, % GNI	1.8	127
2.1.2	Public expenditure/pupil, % GDP/cap.....	10.7	103
2.1.3	School life expectancy, years.....	8.1	129 ○
2.1.4	PISA scales in reading, maths, & science.....	n/a	n/a
2.1.5	Pupil-teacher ratio, secondary	28.5	117
2.2	Tertiary education	7.5	130
2.2.1	Tertiary enrolment, % gross.....	10.6	102
2.2.2	Graduates in science & engineering, %	8.1	99 ○
2.2.3	Tertiary inbound mobility, %.....	0.0	90 ○
2.2.4	Gross tertiary outbound enrolment, %	0.1	135 ○
2.3	Research & development (R&D).....	29.1	44 ●
2.3.1	Researchers, headcounts/mn pop.	n/a	n/a
2.3.2	Gross expenditure on R&D, % GDP.....	n/a	n/a
2.3.3	Quality of scientific research institutions†.....	29.1	112
3	Infrastructure.....	28.2	93
3.1	Information & communication technologies (ICT).....	18.2	108
3.1.1	ICT access*.....	19.1	120
3.1.2	ICT use*	1.3	130 ○
3.1.3	Government's online service*.....	44.4	85
3.1.4	E-participation*.....	7.9	98
3.2	General infrastructure	29.6	107
3.2.1	Electricity output, kWh/cap.....	233.4	113
3.2.2	Electricity consumption, kWh/cap.....	228.1	111
3.2.3	Quality of trade & transport infrastructure*.....	37.3	73
3.2.4	Gross capital formation, % GDP.....	24.4	48 ●
3.3	Ecological sustainability	36.7	53 ●
3.3.1	GDP/unit of energy use, 2000 PPP\$/kg oil eq.....	11.2	7 ●
3.3.2	Environmental performance*.....	42.6	110
3.3.3	ISO 14001 environmental certificates/bn PPP\$ GDP	0.0	135 ○
4	Market sophistication	30.0	110
4.1	Credit	27.7	78
4.1.1	Ease of getting credit*	38.7	72
4.1.2	Domestic credit to private sector, % GDP.....	47.1	67
4.1.3	Microfinance gross loans, % GDP.....	2.5	20 ●

4.2	Investment.....	27.0	64
4.2.1	Ease of protecting investors*.....	82.0	20 ●
4.2.2	Market capitalization, % GDP.....	47.0	45 ●
4.2.3	Total value of stocks traded, % GDP.....	14.7	42 ●
4.2.4	Venture capital deals/tr PPP\$ GDP.....	0.0	65 ○
4.3	Trade & competition	35.2	138 ○
4.3.1	Applied tariff rate, weighted mean, %.....	13.0	131
4.3.2	Non-agricultural mkt access weighted tariff, %.....	4.3	131
4.3.3	Imports of goods & services, % GDP.....	25.0	125
4.3.4	Exports of goods & services, % GDP.....	18.4	128
4.3.5	Intensity of local competition†	59.0	88
5	Business sophistication	30.0	123
5.1	Knowledge workers.....	27.8	120
5.1.1	Knowledge-intensive employment, %.....	7.3	99 ○
5.1.2	Firms offering formal training, % firms.....	27.2	70
5.1.3	R&D performed by business, %.....	n/a	n/a
5.1.4	R&D financed by business, %	n/a	n/a
5.1.5	GMAT mean score.....	499.6	77
5.1.6	GMAT test takers/mn pop. 20–34.....	10.2	124
5.2	Innovation linkages	41.2	51 ●
5.2.1	University/industry research collaboration†	27.2	121
5.2.2	State of cluster development†	44.2	56 ●
5.2.3	R&D financed by abroad, %.....	n/a	n/a
5.2.4	JV–strategic alliance deals/tr PPP\$ GDP	7.7	93
5.2.5	PCT patent filings with foreign inventor, %.....	100.0	1 ●
5.3	Knowledge absorption	20.9	138 ○
5.3.1	Royalty & license fees payments/th GDP.....	0.2	105
5.3.2	High-tech imports less re-imports, %	n/a	n/a
5.3.3	Computer & comm. service imports, %.....	7.4	129 ○
5.3.4	FDI net inflows, % GDP.....	1.0	111
6	Knowledge & technology outputs	25.6	74
6.1	Knowledge creation.....	2.1	135 ○
6.1.1	Domestic resident patent ap/bn PPP\$ GDP	0.3	94
6.1.2	PCT resident patent ap/bn PPP\$ GDP.....	n/a	n/a
6.1.3	Domestic res utility model ap/bn PPP\$ GDP.....	n/a	n/a
6.1.4	Scientific & technical articles/bn PPP\$ GDP.....	1.1	110
6.2	Knowledge impact	26.7	95
6.2.1	Growth rate of PPP\$ GDP/worker, %.....	3.4	44 ●
6.2.2	New businesses/th pop. 15–64.....	n/a	n/a
6.2.3	Computer software spending, % GDP.....	0.1	69
6.2.4	ISO 9001 quality certificates/bn PPP\$ GDP	0.9	116
6.3	Knowledge diffusion	48.1	25 ●
6.3.1	Royalty & license fees receipts/th GDP.....	0.0	95
6.3.2	High-tech exports less re-exports, %.....	n/a	n/a
6.3.3	Computer & comm. service exports, %	72.1	2 ●
6.3.4	FDI net outflows, % GDP	0.0	101
7	Creative outputs	19.6	121
7.1	Creative intangibles.....	31.5	105
7.1.1	Domestic res trademark reg/bn PPP\$ GDP.....	1.2	84 ○
7.1.2	Madrid resident trademark reg/bn PPP\$ GDP.....	n/a	n/a
7.1.3	ICT & business model creation†	42.8	101
7.1.4	ICT & organizational model creation†	51.2	59
7.2	Creative goods & services	10.1	100
7.2.1	Recreation & culture consumption, %.....	n/a	n/a
7.2.2	National feature films/mn pop. 15–69.....	0.7	73
7.2.3	Paid-for dailies, circulation/th pop. 15–69.....	15.6	108
7.2.4	Creative goods exports, %.....	1.4	57
7.2.5	Creative services exports, %.....	2.0	60
7.3	Online creativity.....	5.3	123
7.3.1	Generic top-level domains (TLDs)/th pop. 15–69.....	0.3	121
7.3.2	Country-code TLDs/th pop. 15–69.....	0.7	129
7.3.3	Wikipedia monthly edits/mn pop. 15–69.....	40.8	109
7.3.4	Video uploads on YouTube/pop. 15–69.....	20.1	119

Belarus

Key indicators

Population (millions)	9.4
GDP per capita, PPP\$	14,948.0
GDP (US\$ billions)	57.7

	Score (0–100) or value (hard data)	Rank
Global Innovation Index 2012 (out of 141).....	32.9	78
Innovation Output Sub-Index	28.1	75
Innovation Input Sub-Index	37.7	80
Innovation Efficiency Index	0.7	66
Global Innovation Index 2011 (out of 125)	n/a	
GII 2012 rank among GII 2011 economies (125)	n/a	

1	Institutions.....	41.5	109
1.1	Political environment	33.4	131 ○
1.1.1	Political stability*.....	62.6	76
1.1.2	Government effectiveness*.....	11.3	136 ○
1.1.3	Press freedom*.....	26.4	133 ○
1.2	Regulatory environment.....	47.0	121 ○
1.2.1	Regulatory quality*.....	22.2	136 ○
1.2.2	Rule of law*.....	20.0	127 ○
1.2.3	Cost of redundancy dismissal, salary weeks.....	21.7	95
1.3	Business environment	44.1	84
1.3.1	Ease of starting a business*.....	95.6	7 ●
1.3.2	Ease of resolving insolvency*.....	36.6	89
1.3.3	Ease of paying taxes*.....	0.0	140 ○
2	Human capital & research.....	42.7	45
2.1	Education.....	60.5	36
2.1.1	Current expenditure on education, % GNI	4.4	60
2.1.2	Public expenditure/pupil, % GDP/cap.....	23.6	37
2.1.3	School life expectancy, years.....	14.7	41
2.1.4	PISA scales in reading, maths, & science.....	n/a	n/a
2.1.5	Pupil-teacher ratio, secondary	8.1	11 ●
2.2	Tertiary education	52.2	16 ●
2.2.1	Tertiary enrolment, % gross.....	83.0	6 ●
2.2.2	Graduates in science & engineering, %	26.6	17 ●
2.2.3	Tertiary inbound mobility, %.....	1.4	66
2.2.4	Gross tertiary outbound enrolment, %	3.9	19 ●
2.3	Research & development (R&D).....	15.2	104
2.3.1	Researchers, headcounts/mn pop.	2,134.8	38
2.3.2	Gross expenditure on R&D, % GDP.....	0.6	46
2.3.3	Quality of scientific research institutions†	n/a	n/a
3	Infrastructure.....	34.5	66
3.1	Information & communication technologies (ICT).....	32.5	74
3.1.1	ICT access*.....	56.7	48
3.1.2	ICT use*.....	24.1	54
3.1.3	Government's online service*.....	41.2	92
3.1.4	E-participation*.....	7.9	98
3.2	General infrastructure	47.1	29
3.2.1	Electricity output, kWh/cap.....	3,197.5	58
3.2.2	Electricity consumption, kWh/cap.....	3,245.4	54
3.2.3	Quality of trade & transport infrastructure*.....	40.8	59
3.2.4	Gross capital formation, % GDP.....	40.6	4 ●
3.3	Ecological sustainability	24.0	96
3.3.1	GDP/unit of energy use, 2000 PPP\$/kg oil eq.....	3.5	95
3.3.2	Environmental performance*.....	53.9	63
3.3.3	ISO 14001 environmental certificates/bn PPP\$ GDP.....	0.2	106 ○
4	Market sophistication	36.9	75
4.1	Credit	20.3	90
4.1.1	Ease of getting credit*.....	27.0	88
4.1.2	Domestic credit to private sector, % GDP.....	44.8	74
4.1.3	Microfinance gross loans, % GDP.....	n/a	n/a

4.2	Investment.....	14.7	98
4.2.1	Ease of protecting investors*.....	29.4	91
4.2.2	Market capitalization, % GDP.....	n/a	n/a
4.2.3	Total value of stocks traded, % GDP.....	n/a	n/a
4.2.4	Venture capital deals/tr PPP\$ GDP.....	0.0	65 ○
4.3	Trade & competition	75.7	14 ●
4.3.1	Applied tariff rate, weighted mean, %.....	2.1	43
4.3.2	Non-agricultural mkt access weighted tariff, %.....	0.7	64
4.3.3	Imports of goods & services, % GDP.....	68.3	25
4.3.4	Exports of goods & services, % GDP.....	54.6	34
4.3.5	Intensity of local competition†	n/a	n/a
5	Business sophistication	33.1	105
5.1	Knowledge workers.....	54.9	43
5.1.1	Knowledge-intensive employment, %.....	n/a	n/a
5.1.2	Firms offering formal training, % firms.....	44.4	39
5.1.3	R&D performed by business, %.....	52.0	31
5.1.4	R&D financed by business, %	28.8	53
5.1.5	GMAT mean score.....	558.8	32
5.1.6	GMAT test takers/mn pop. 20–34.....	50.4	78
5.2	Innovation linkages	16.3	136 ○
5.2.1	University/industry research collaboration†	n/a	n/a
5.2.2	State of cluster development†	n/a	n/a
5.2.3	R&D financed by abroad, %.....	8.5	38
5.2.4	JV–strategic alliance deals/tr PPP\$ GDP	14.2	77
5.2.5	PCT patent filings with foreign inventor, %.....	25.0	71
5.3	Knowledge absorption	28.1	105
5.3.1	Royalty & license fees payments/th GDP.....	1.8	51
5.3.2	High-tech imports less re-imports, %	4.7	109 ○
5.3.3	Computer & comm. service imports, %.....	26.9	74
5.3.4	FDI net inflows, % GDP.....	2.6	66
6	Knowledge & technology outputs	34.5	44
6.1	Knowledge creation.....	45.5	28
6.1.1	Domestic resident patent ap/bn PPP\$ GDP	14.2	10 ●
6.1.2	PCT resident patent ap/bn PPP\$ GDP.....	0.1	68
6.1.3	Domestic res utility model ap/bn PPP\$ GDP.....	7.8	7 ●
6.1.4	Scientific & technical articles/bn PPP\$ GDP.....	3.1	70
6.2	Knowledge impact	36.6	56
6.2.1	Growth rate of PPP\$ GDP/worker, %.....	7.0	7 ●
6.2.2	New businesses/th pop. 15–64.....	0.8	68
6.2.3	Computer software spending, % GDP.....	n/a	n/a
6.2.4	ISO 9001 quality certificates/bn PPP\$ GDP	1.1	111 ○
6.3	Knowledge diffusion	21.3	98
6.3.1	Royalty & license fees receipts/th GDP.....	0.2	65
6.3.2	High-tech exports less re-exports, %.....	1.6	65
6.3.3	Computer & comm. service exports, %	23.1	80
6.3.4	FDI net outflows, % GDP	0.1	83
7	Creative outputs	21.8	117 ○
7.1	Creative intangibles.....	24.7	126 ○
7.1.1	Domestic res trademark reg/bn PPP\$ GDP.....	69.5	21
7.1.2	Madrid resident trademark reg/bn PPP\$ GDP.....	0.8	26
7.1.3	ICT & business model creation†	n/a	n/a
7.1.4	ICT & organizational model creation†	n/a	n/a
7.2	Creative goods & services	21.0	70
7.2.1	Recreation & culture consumption, %.....	3.6	64
7.2.2	National feature films/mn pop. 15–69.....	1.1	65
7.2.3	Paid-for dailies, circulation/th pop. 15–69.....	249.4	17 ●
7.2.4	Creative goods exports, %.....	1.5	55
7.2.5	Creative services exports, %.....	4.1	44
7.3	Online creativity.....	16.7	88
7.3.1	Generic top-level domains (TLDs)/th pop. 15–69.....	1.8	89
7.3.2	Country-code TLDs/th pop. 15–69.....	2.0	116 ○
7.3.3	Wikipedia monthly edits/mn pop. 15–69.....	2,788.8	44
7.3.4	Video uploads on YouTube/pop. 15–69.....	48.8	82

Key indicators

Population (millions)	11.0
GDP per capita, PPP\$	37,677.4
GDP (US\$ billions)	529.0

	Score (0–100) or value (hard data)	Rank
Global Innovation Index 2012 (out of 141).....	54.3	20
Innovation Output Sub-Index	48.3	18
Innovation Input Sub-Index	60.3	20
Innovation Efficiency Index	0.8	45
Global Innovation Index 2011 (out of 125)	24	
GII 2012 rank among GII 2011 economies (125)	19	
1 Institutions.....	86.2	16
1.1 Political environment	87.3	14
1.1.1 Political stability*.....	84.6	28
1.1.2 Government effectiveness*.....	82.8	14
1.1.3 Press freedom*.....	94.6	19
1.2 Regulatory environment.....	92.4	15
1.2.1 Regulatory quality*.....	84.8	23
1.2.2 Rule of law*.....	84.8	21
1.2.3 Cost of redundancy dismissal, salary weeks.....	8.0	1 ●
1.3 Business environment	78.8	18
1.3.1 Ease of starting a business*.....	81.2	27
1.3.2 Ease of resolving insolvency*.....	94.9	8 ●
1.3.3 Ease of paying taxes*.....	60.4	56
2 Human capital & research.....	54.5	20
2.1 Education.....	71.7	7 ●
2.1.1 Current expenditure on education, % GNI	5.8	23
2.1.2 Public expenditure/pupil, % GDP/cap.....	28.8	12
2.1.3 School life expectancy, years.....	16.4	13
2.1.4 PISA scales in reading, maths, & science.....	509.3	14
2.1.5 Pupil-teacher ratio, secondary	6.5	1 ●
2.2 Tertiary education	41.2	48
2.2.1 Tertiary enrolment, % gross.....	67.5	20
2.2.2 Graduates in science & engineering, %	16.3	71 ○
2.2.3 Tertiary inbound mobility, %.....	8.0	18
2.2.4 Gross tertiary outbound enrolment, %	1.6	56
2.3 Research & development (R&D).....	50.7	21
2.3.1 Researchers, headcounts/mn pop.	3,435.4	27
2.3.2 Gross expenditure on R&D, % GDP.....	2.0	15
2.3.3 Quality of scientific research institutions†.....	80.9	5 ●
3 Infrastructure.....	47.0	31
3.1 Information & communication technologies (ICT).....	51.2	40
3.1.1 ICT access*.....	75.4	17
3.1.2 ICT use*	51.6	24
3.1.3 Government's online service*.....	64.7	39
3.1.4 E-participation*.....	13.2	83 ○
3.2 General infrastructure	52.9	19
3.2.1 Electricity output, kWh/cap.....	8,708.9	18
3.2.2 Electricity consumption, kWh/cap.....	8,560.8	15
3.2.3 Quality of trade & transport infrastructure*.....	75.3	12
3.2.4 Gross capital formation, % GDP.....	20.2	89 ○
3.3 Ecological sustainability	36.7	52
3.3.1 GDP/unit of energy use, 2000 PPP\$/kg oil eq.....	5.7	61 ○
3.3.2 Environmental performance*.....	63.0	24
3.3.3 ISO 14001 environmental certificates/bn PPP\$ GDP.....	2.1	43
4 Market sophistication	56.0	21
4.1 Credit	44.7	35
4.1.1 Ease of getting credit*	57.7	43
4.1.2 Domestic credit to private sector, % GDP.....	94.9	35
4.1.3 Microfinance gross loans, % GDP.....	n/a	n/a

4.2 Investment.....	45.4	24
4.2.1 Ease of protecting investors*.....	87.0	16
4.2.2 Market capitalization, % GDP.....	57.6	39
4.2.3 Total value of stocks traded, % GDP.....	23.8	36
4.2.4 Venture capital deals/tr PPP\$ GDP.....	29.0	36
4.3 Trade & competition	77.9	8 ●
4.3.1 Applied tariff rate, weighted mean, %.....	1.6	11
4.3.2 Non-agricultural mkt access weighted tariff, %.....	2.0	92 ○
4.3.3 Imports of goods & services, % GDP.....	77.3	14
4.3.4 Exports of goods & services, % GDP.....	80.0	11 ●
4.3.5 Intensity of local competition†	82.7	1 ●
5 Business sophistication	57.7	13
5.1 Knowledge workers.....	80.0	5 ●
5.1.1 Knowledge-intensive employment, %.....	43.4	9
5.1.2 Firms offering formal training, % firms.....	n/a	n/a
5.1.3 R&D performed by business, %.....	67.3	14
5.1.4 R&D financed by business, %	61.4	14
5.1.5 GMAT mean score.....	574.9	18
5.1.6 GMAT test takers/mn pop. 20–34.....	202.0	28
5.2 Innovation linkages	46.4	30
5.2.1 University/industry research collaboration†	71.9	9 ●
5.2.2 State of cluster development†	54.2	28
5.2.3 R&D financed by abroad, %.....	13.0	24
5.2.4 JV–strategic alliance deals/tr PPP\$ GDP	22.8	61
5.2.5 PCT patent filings with foreign inventor, %.....	53.9	47 ○
5.3 Knowledge absorption	46.6	24
5.3.1 Royalty & license fees payments/th GDP.....	4.1	23
5.3.2 High-tech imports less re-imports, %	8.3	64 ○
5.3.3 Computer & comm. service imports, %.....	46.9	21
5.3.4 FDI net inflows, % GDP.....	13.4	9 ●
6 Knowledge & technology outputs	50.6	17
6.1 Knowledge creation.....	57.7	15
6.1.1 Domestic resident patent ap/bn PPP\$ GDP	6.7	28
6.1.2 PCT resident patent ap/bn PPP\$ GDP	2.9	15
6.1.3 Domestic res utility model ap/bn PPP\$ GDP.....	n/a	n/a
6.1.4 Scientific & technical articles/bn PPP\$ GDP.....	18.8	14
6.2 Knowledge impact	43.0	37
6.2.1 Growth rate of PPP\$ GDP/worker, %.....	1.6	82 ○
6.2.2 New businesses/th pop. 15–64.....	4.3	23
6.2.3 Computer software spending, % GDP.....	0.8	12
6.2.4 ISO 9001 quality certificates/bn PPP\$ GDP	9.4	48
6.3 Knowledge diffusion	51.2	19
6.3.1 Royalty & license fees receipts/th GDP.....	4.6	13
6.3.2 High-tech exports less re-exports, %.....	8.3	29
6.3.3 Computer & comm. service exports, %	54.8	19
6.3.4 FDI net outflows, % GDP	10.2	3 ●
7 Creative outputs	46.0	22
7.1 Creative intangibles.....	40.3	70 ○
7.1.1 Domestic res trademark reg/bn PPP\$ GDP.....	12.8	73 ○
7.1.2 Madrid resident trademark reg/bn PPP\$ GDP.....	n/a	n/a
7.1.3 ICT & business model creation†	65.0	26
7.1.4 ICT & organizational model creation†	49.9	63 ○
7.2 Creative goods & services	40.6	18
7.2.1 Recreation & culture consumption, %.....	9.4	16
7.2.2 National feature films/mn pop. 15–69.....	4.5	25
7.2.3 Paid-for dailies, circulation/th pop. 15–69.....	184.8	26
7.2.4 Creative goods exports, %.....	1.8	47
7.2.5 Creative services exports, %.....	11.6	15
7.3 Online creativity.....	62.8	14
7.3.1 Generic top-level domains (TLDs)/th pop. 15–69.....	58.2	17
7.3.2 Country-code TLDs/th pop. 15–69.....	71.4	11 ●
7.3.3 Wikipedia monthly edits/mn pop. 15–69.....	9,721.7	9 ●
7.3.4 Video uploads on YouTube/pop. 15–69.....	72.1	20

Key indicators

Population (millions)	0.3
GDP per capita, PPP\$	8,275.2
GDP (US\$ billions)	1.5

	Score (0–100) or value (hard data)	Rank
Global Innovation Index 2012 (out of 141).....	32.5	80
Innovation Output Sub-Index	28.4	74
Innovation Input Sub-Index	36.6	87
Innovation Efficiency Index	0.8	53
Global Innovation Index 2011 (out of 125)	n/a	n/a
GII 2012 rank among GII 2011 economies (125)	n/a	n/a
1 Institutions.....	56.3	69
1.1 Political environment	47.2	88
1.1.1 Political stability*.....	65.1	70
1.1.2 Government effectiveness*.....	29.4	92
1.1.3 Press freedom*.....	n/a	n/a
1.2 Regulatory environment.....	69.1	61
1.2.1 Regulatory quality*.....	39.8	105
1.2.2 Rule of law*.....	38.1	78
1.2.3 Cost of redundancy dismissal, salary weeks.....	8.3	21 ●
1.3 Business environment	52.5	63
1.3.1 Ease of starting a business*.....	13.6	121
1.3.2 Ease of resolving insolvency*.....	82.0	26 ●
1.3.3 Ease of paying taxes*.....	61.8	54
2 Human capital & research.....	32.2	79
2.1 Education.....	57.1	50
2.1.1 Current expenditure on education, % GNI	6.9	12 ●
2.1.2 Public expenditure/pupil, % GDP/cap.....	20.3	57
2.1.3 School life expectancy, years.....	12.9	74
2.1.4 PISA scales in reading, maths, & science.....	n/a	n/a
2.1.5 Pupil-teacher ratio, secondary	16.8	79
2.2 Tertiary education	16.3	116
2.2.1 Tertiary enrolment, % gross.....	21.5	86
2.2.2 Graduates in science & engineering, %	6.0	102 ○
2.2.3 Tertiary inbound mobility, %.....	n/a	n/a
2.2.4 Gross tertiary outbound enrolment, %	2.6	32
2.3 Research & development (R&D).....	23.0	65
2.3.1 Researchers, headcounts/mn pop.	n/a	n/a
2.3.2 Gross expenditure on R&D, % GDP.....	n/a	n/a
2.3.3 Quality of scientific research institutions†.....	23.0	122 ○
3 Infrastructure.....	30.1	83
3.1 Information & communication technologies (ICT).....	29.1	82
3.1.1 ICT access*.....	n/a	n/a
3.1.2 ICT use*.....	n/a	n/a
3.1.3 Government's online service*.....	39.9	94
3.1.4 E-participation*.....	18.4	71
3.2 General infrastructure	52.8	20 ●
3.2.1 Electricity output, kWh/cap.....	n/a	n/a
3.2.2 Electricity consumption, kWh/cap.....	n/a	n/a
3.2.3 Quality of trade & transport infrastructure*.....	n/a	n/a
3.2.4 Gross capital formation, % GDP.....	25.5	38
3.3 Ecological sustainability	8.5	125 ○
3.3.1 GDP/unit of energy use, 2000 PPP\$/kg oil eq.....	n/a	n/a
3.3.2 Environmental performance*.....	n/a	n/a
3.3.3 ISO 14001 environmental certificates/bn PPP\$ GDP	1.1	58
4 Market sophistication	29.8	113
4.1 Credit	19.1	94
4.1.1 Ease of getting credit*.....	27.0	88
4.1.2 Domestic credit to private sector, % GDP.....	62.2	53
4.1.3 Microfinance gross loans, % GDP.....	0.9	40

4.2 Investment.....	11.2	109
4.2.1 Ease of protecting investors*.....	22.3	100
4.2.2 Market capitalization, % GDP.....	n/a	n/a
4.2.3 Total value of stocks traded, % GDP.....	n/a	n/a
4.2.4 Venture capital deals/tr PPP\$ GDP.....	0.0	65 ○
4.3 Trade & competition	59.2	92
4.3.1 Applied tariff rate, weighted mean, %.....	6.4	95
4.3.2 Non-agricultural mkt access weighted tariff, %.....	2.6	123 ○
4.3.3 Imports of goods & services, % GDP.....	70.0	20 ●
4.3.4 Exports of goods & services, % GDP.....	62.1	23 ●
4.3.5 Intensity of local competition†.....	53.7	103
5 Business sophistication	34.6	91
5.1 Knowledge workers.....	43.5	72
5.1.1 Knowledge-intensive employment, %.....	20.4	65
5.1.2 Firms offering formal training, % firms.....	n/a	n/a
5.1.3 R&D performed by business, %.....	n/a	n/a
5.1.4 R&D financed by business, %	n/a	n/a
5.1.5 GMAT mean score.....	420.3	118
5.1.6 GMAT test takers/mn pop. 20–34.....	200.8	29 ●
5.2 Innovation linkages	33.4	81
5.2.1 University/industry research collaboration†.....	24.2	125 ○
5.2.2 State of cluster development†.....	26.1	123 ○
5.2.3 R&D financed by abroad, %.....	n/a	n/a
5.2.4 JV–strategic alliance deals/tr PPP\$ GDP	0.0	114 ○
5.2.5 PCT patent filings with foreign inventor, %.....	100.0	1 ●
5.3 Knowledge absorption	26.8	113
5.3.1 Royalty & license fees payments/th GDP.....	1.0	74
5.3.2 High-tech imports less re-imports, %.....	5.7	93
5.3.3 Computer & comm. service imports, %.....	20.7	99
5.3.4 FDI net inflows, % GDP.....	6.9	28 ●
6 Knowledge & technology outputs.....	27.5	64
6.1 Knowledge creation.....	27.9	57
6.1.1 Domestic resident patent ap/bn PPP\$ GDP	0.4	83
6.1.2 PCT resident patent ap/bn PPP\$ GDP.....	1.8	24
6.1.3 Domestic res utility model ap/bn PPP\$ GDP.....	n/a	n/a
6.1.4 Scientific & technical articles/bn PPP\$ GDP.....	0.8	121
6.2 Knowledge impact	22.2	111
6.2.1 Growth rate of PPP\$ GDP/worker, %.....	n/a	n/a
6.2.2 New businesses/th pop. 15–64.....	3.0	33
6.2.3 Computer software spending, % GDP.....	n/a	n/a
6.2.4 ISO 9001 quality certificates/bn PPP\$ GDP	1.6	101
6.3 Knowledge diffusion	32.5	47
6.3.1 Royalty & license fees receipts/th GDP.....	n/a	n/a
6.3.2 High-tech exports less re-exports, %.....	n/a	n/a
6.3.3 Computer & comm. service exports, %	12.3	113
6.3.4 FDI net outflows, % GDP	0.1	87
7 Creative outputs	29.3	81
7.1 Creative intangibles.....	28.1	119 ○
7.1.1 Domestic res trademark reg/bn PPP\$ GDP.....	n/a	n/a
7.1.2 Madrid resident trademark reg/bn PPP\$ GDP.....	n/a	n/a
7.1.3 ICT & business model creation†.....	32.8	125 ○
7.1.4 ICT & organizational model creation†.....	23.3	131 ○
7.2 Creative goods & services	0.5	140 ○
7.2.1 Recreation & culture consumption, %.....	n/a	n/a
7.2.2 National feature films/mn pop. 15–69.....	n/a	n/a
7.2.3 Paid-for dailies, circulation/th pop. 15–69.....	n/a	n/a
7.2.4 Creative goods exports, %.....	0.0	122 ○
7.2.5 Creative services exports, %.....	n/a	n/a
7.3 Online creativity.....	60.7	18 ●
7.3.1 Generic top-level domains (TLDs)/th pop. 15–69.....	100.0	1 ●
7.3.2 Country-code TLDs/th pop. 15–69.....	77.1	6 ●
7.3.3 Wikipedia monthly edits/mn pop. 15–69.....	428.1	80
7.3.4 Video uploads on YouTube/pop. 15–69.....	63.6	42

Key indicators

Population (millions)	9.9
GDP per capita, PPP\$	1,491.5
GDP (US\$ billions)	7.5

	Score (0–100) or value (hard data)	Rank
Global Innovation Index 2012 (out of 141).....	24.4	125
Innovation Output Sub-Index	22.0	108
Innovation Input Sub-Index	26.7	132
Innovation Efficiency Index	0.8	36 ●
Global Innovation Index 2011 (out of 125)	118	
GII 2012 rank among GII 2011 economies (125)	115	

1 Institutions.....44.7 102

1.1 Political environment.....57.3 66 ●	
1.1.1 Political stability*.....72.7 53 ●	
1.1.2 Government effectiveness*.....26.9 100	
1.1.3 Press freedom*.....72.3 70 ●	
1.2 Regulatory environment.....64.4 77	
1.2.1 Regulatory quality*.....43.5 94	
1.2.2 Rule of law*.....28.4 105	
1.2.3 Cost of redundancy dismissal, salary weeks.....11.6 47 ●	
1.3 Business environment.....12.4 136 ○	
1.3.1 Ease of starting a business*.....7.1 130	
1.3.2 Ease of resolving insolvency*.....22.3 109	
1.3.3 Ease of paying taxes*.....7.9 129	

2 Human capital & research.....20.5 123

2.1 Education.....36.7 114	
2.1.1 Current expenditure on education, % GNI.....4.3 65 ●	
2.1.2 Public expenditure/pupil, % GDP/cap.....17.0 79	
2.1.3 School life expectancy, years.....9.4 120	
2.1.4 PISA scales in reading, maths, & science.....n/a n/a	
2.1.5 Pupil-teacher ratio, secondary.....23.9 108	
2.2 Tertiary education.....4.6 137 ○	
2.2.1 Tertiary enrolment, % gross.....6.0 116	
2.2.2 Graduates in science & engineering, %.....n/a n/a	
2.2.3 Tertiary inbound mobility, %.....n/a n/a	
2.2.4 Gross tertiary outbound enrolment, %.....0.4 103	
2.3 Research & development (R&D).....20.1 73 ●	
2.3.1 Researchers, headcounts/mn pop.....123.3 95	
2.3.2 Gross expenditure on R&D, % GDP.....n/a n/a	
2.3.3 Quality of scientific research institutions†.....39.4 79	

3 Infrastructure.....24.8 106

3.1 Information & communication technologies (ICT).....12.7 129	
3.1.1 ICT access*.....22.2 113	
3.1.2 ICT use*.....1.2 132 ○	
3.1.3 Government's online service*.....19.6 132 ○	
3.1.4 E-participation*.....7.9 98	
3.2 General infrastructure.....30.2 99	
3.2.1 Electricity output, kWh/cap.....13.5 124 ○	
3.2.2 Electricity consumption, kWh/cap.....87.9 122 ○	
3.2.3 Quality of trade & transport infrastructure*.....37.0 74 ●	
3.2.4 Gross capital formation, % GDP.....25.8 37 ●	
3.3 Ecological sustainability.....31.5 65 ●	
3.3.1 GDP/unit of energy use, 2000 PPP\$/kg oil eq.....2.9 101	
3.3.2 Environmental performance*.....50.4 77	
3.3.3 ISO 14001 environmental certificates/bn PPP\$ GDP.....n/a n/a	

4 Market sophistication.....12.1 141 ○

4.1 Credit.....10.5 121	
4.1.1 Ease of getting credit*.....2.8 126 ○	
4.1.2 Domestic credit to private sector, % GDP.....23.1 109	
4.1.3 Microfinance gross loans, % GDP.....1.9 22 ●	

4.2 Investment.....3.6 129 ○	
4.2.1 Ease of protecting investors*.....7.1 123	
4.2.2 Market capitalization, % GDP.....n/a n/a	
4.2.3 Total value of stocks traded, % GDP.....n/a n/a	
4.2.4 Venture capital deals/tr PPP\$ GDP.....0.0 65 ○	

4.3 Trade & competition.....22.4 140 ○

4.3.1 Applied tariff rate, weighted mean, %.....15.4 138 ○	
4.3.2 Non-agricultural mkt access weighted tariff, %.....8.8 138 ○	
4.3.3 Imports of goods & services, % GDP.....27.7 115	
4.3.4 Exports of goods & services, % GDP.....14.1 133 ○	
4.3.5 Intensity of local competition†.....59.0 89	

5 Business sophistication.....31.5 118

5.1 Knowledge workers.....38.5 93	
5.1.1 Knowledge-intensive employment, %.....n/a n/a	
5.1.2 Firms offering formal training, % firms.....32.4 57 ●	
5.1.3 R&D performed by business, %.....n/a n/a	
5.1.4 R&D financed by business, %.....n/a n/a	
5.1.5 GMAT mean score.....464.0 102	
5.1.6 GMAT test takers/mn pop. 20–34.....18.6 114	
5.2 Innovation linkages.....26.2 117	
5.2.1 University/industry research collaboration†.....38.5 86	
5.2.2 State of cluster development†.....27.2 119	
5.2.3 R&D financed by abroad, %.....n/a n/a	
5.2.4 JV-strategic alliance deals/tr PPP\$ GDP.....0.0 114 ○	
5.2.5 PCT patent filings with foreign inventor, %.....n/a n/a	
5.3 Knowledge absorption.....29.8 97	
5.3.1 Royalty & license fees payments/th GDP.....0.5 91	
5.3.2 High-tech imports less re-imports, %.....n/a n/a	
5.3.3 Computer & comm. service imports, %.....25.0 84	
5.3.4 FDI net inflows, % GDP.....1.7 87	

6 Knowledge & technology outputs.....21.2 101

6.1 Knowledge creation.....19.7 77	
6.1.1 Domestic resident patent ap/bn PPP\$ GDP.....0.7 73	
6.1.2 PCT resident patent ap/bn PPP\$ GDP.....0.1 78	
6.1.3 Domestic res utility model ap/bn PPP\$ GDP.....n/a n/a	
6.1.4 Scientific & technical articles/bn PPP\$ GDP.....3.5 66 ●	
6.2 Knowledge impact.....16.8 127	
6.2.1 Growth rate of PPP\$ GDP/worker, %.....n/a n/a	
6.2.2 New businesses/th pop. 15–64.....n/a n/a	
6.2.3 Computer software spending, % GDP.....n/a n/a	
6.2.4 ISO 9001 quality certificates/bn PPP\$ GDP.....1.1 112	
6.3 Knowledge diffusion.....27.2 65 ●	
6.3.1 Royalty & license fees receipts/th GDP.....0.0 96	
6.3.2 High-tech exports less re-exports, %.....n/a n/a	
6.3.3 Computer & comm. service exports, %.....24.2 76	
6.3.4 FDI net outflows, % GDP.....0.5 58 ●	

7 Creative outputs.....22.8 110

7.1 Creative intangibles.....41.7 63 ●	
7.1.1 Domestic res trademark reg/bn PPP\$ GDP.....n/a n/a	
7.1.2 Madrid resident trademark reg/bn PPP\$ GDP.....n/a n/a	
7.1.3 ICT & business model creation†.....40.7 113	
7.1.4 ICT & organizational model creation†.....42.8 87	
7.2 Creative goods & services.....1.1 136 ○	
7.2.1 Recreation & culture consumption, %.....n/a n/a	
7.2.2 National feature films/mn pop. 15–69.....n/a n/a	
7.2.3 Paid-for dailies, circulation/th pop. 15–69.....10.7 114	
7.2.4 Creative goods exports, %.....0.1 119	
7.2.5 Creative services exports, %.....0.3 91	
7.3 Online creativity.....6.6 121	
7.3.1 Generic top-level domains (TLDs)/th pop. 15–69.....0.3 117	
7.3.2 Country-code TLDs/th pop. 15–69.....1.0 125	
7.3.3 Wikipedia monthly edits/mn pop. 15–69.....n/a n/a	
7.3.4 Video uploads on YouTube/pop. 15–69.....18.6 123	

Bolivia (Plurinational State of)

Key indicators

Population (millions)	10.6
GDP per capita, PPP\$	4,843.2
GDP (US\$ billions)	23.9

	Score (0–100) or value (hard data)	Rank
Global Innovation Index 2012 (out of 141).....	25.8	114
Innovation Output Sub-Index	20.3	120
Innovation Input Sub-Index	31.3	108
Innovation Efficiency Index	0.6	103
Global Innovation Index 2011 (out of 125)		112
GII 2012 rank among GII 2011 economies (125)		105

1	Institutions.....	32.5	136	○
1.1	Political environment	50.3	85	
1.1.1	Political stability*.....	55.7	91	
1.1.2	Government effectiveness*.....	29.1	93	
1.1.3	Press freedom*.....	66.2	85	
1.2	Regulatory environment.....	25.2	136	○
1.2.1	Regulatory quality*.....	31.0	124	○
1.2.2	Rule of law*.....	19.5	129	○
1.2.3	Cost of redundancy dismissal, salary weeks	n/a	n/a	
1.3	Business environment	22.0	123	
1.3.1	Ease of starting a business*.....	2.1	137	○
1.3.2	Ease of resolving insolvency*.....	61.8	54	●
1.3.3	Ease of paying taxes*.....	2.1	137	○

2	Human capital & research.....	28.7	97	
2.1	Education.....	49.3	76	
2.1.1	Current expenditure on education, % GNI	4.7	50	●
2.1.2	Public expenditure/pupil, % GDP/cap.....	17.9	75	
2.1.3	School life expectancy, years.....	13.5	61	
2.1.4	PISA scales in reading, maths, & science	n/a	n/a	
2.1.5	Pupil-teacher ratio, secondary	18.2	88	
2.2	Tertiary education	23.6	93	
2.2.1	Tertiary enrolment, % gross.....	38.6	61	
2.2.2	Graduates in science & engineering, %	n/a	n/a	
2.2.3	Tertiary inbound mobility, %.....	n/a	n/a	
2.2.4	Gross tertiary outbound enrolment, %	1.0	77	
2.3	Research & development (R&D).....	13.2	116	
2.3.1	Researchers, headcounts/mn pop.	120.1	96	
2.3.2	Gross expenditure on R&D, % GDP.....	0.3	72	
2.3.3	Quality of scientific research institutions†	32.8	105	

3	Infrastructure.....	24.8	105	
3.1	Information & communication technologies (ICT).....	24.6	95	
3.1.1	ICT access*.....	28.4	102	
3.1.2	ICT use*.....	7.7	97	
3.1.3	Government's online service*.....	41.2	92	
3.1.4	E-participation*.....	21.1	63	
3.2	General infrastructure	22.8	129	○
3.2.1	Electricity output, kWh/cap.....	598.3	105	
3.2.2	Electricity consumption, kWh/cap.....	553.3	103	
3.2.3	Quality of trade & transport infrastructure*.....	31.0	99	
3.2.4	Gross capital formation, % GDP.....	17.0	118	
3.3	Ecological sustainability	27.1	88	
3.3.1	GDP/unit of energy use, 2000 PPP\$/kg oil eq.....	4.5	84	
3.3.2	Environmental performance*.....	54.6	60	
3.3.3	ISO 14001 environmental certificates/bn PPP\$ GDP	0.5	80	

4	Market sophistication	37.0	74	
4.1	Credit	44.4	36	●
4.1.1	Ease of getting credit*.....	21.1	104	
4.1.2	Domestic credit to private sector, % GDP	40.3	80	
4.1.3	Microfinance gross loans, % GDP	11.4	1	●

4.2	Investment.....	5.5	124	○
4.2.1	Ease of protecting investors*.....	15.8	110	
4.2.2	Market capitalization, % GDP.....	17.1	84	
4.2.3	Total value of stocks traded, % GDP	0.1	102	○
4.2.4	Venture capital deals/tr PPP\$ GDP.....	0.0	65	○

4.3	Trade & competition	61.3	81	
4.3.1	Applied tariff rate, weighted mean, %.....	5.4	83	
4.3.2	Non-agricultural mkt access weighted tariff, %.....	0.0	11	●
4.3.3	Imports of goods & services, % GDP	34.3	92	
4.3.4	Exports of goods & services, % GDP	41.2	60	
4.3.5	Intensity of local competition†	46.0	129	○

5	Business sophistication	33.7	100	
5.1	Knowledge workers.....	40.3	88	
5.1.1	Knowledge-intensive employment, %.....	14.3	89	
5.1.2	Firms offering formal training, % firms.....	57.1	17	●
5.1.3	R&D performed by business, %.....	25.0	59	
5.1.4	R&D financed by business, %	16.0	68	
5.1.5	GMAT mean score.....	475.9	89	
5.1.6	GMAT test takers/mn pop. 20–34.....	25.2	108	

5.2	Innovation linkages	32.2	89	
5.2.1	University/industry research collaboration†	35.7	104	
5.2.2	State of cluster development†	36.7	88	
5.2.3	R&D financed by abroad, %.....	14.0	22	●
5.2.4	JV–strategic alliance deals/tr PPP\$ GDP	39.4	36	●
5.2.5	PCT patent filings with foreign inventor, %.....	n/a	n/a	

5.3	Knowledge absorption	28.6	99	
5.3.1	Royalty & license fees payments/th GDP.....	1.0	73	
5.3.2	High-tech imports less re-imports, %	10.2	50	●
5.3.3	Computer & comm. service imports, %.....	19.3	102	
5.3.4	FDI net inflows, % GDP.....	3.2	54	●

6	Knowledge & technology outputs	14.6	133	○
6.1	Knowledge creation.....	3.1	129	○
6.1.1	Domestic resident patent ap/bn PPP\$ GDP	n/a	n/a	
6.1.2	PCT resident patent ap/bn PPP\$ GDP	n/a	n/a	
6.1.3	Domestic res utility model ap/bn PPP\$ GDP	n/a	n/a	
6.1.4	Scientific & technical articles/bn PPP\$ GDP	1.0	114	

6.2	Knowledge impact	22.3	110	
6.2.1	Growth rate of PPP\$ GDP/worker, %.....	1.6	84	
6.2.2	New businesses/th pop. 15–64.....	0.4	86	
6.2.3	Computer software spending, % GDP.....	0.1	68	○
6.2.4	ISO 9001 quality certificates/bn PPP\$ GDP	3.5	76	

6.3	Knowledge diffusion	18.5	109	
6.3.1	Royalty & license fees receipts/th GDP.....	0.1	67	
6.3.2	High-tech exports less re-exports, %.....	0.5	86	
6.3.3	Computer & comm. service exports, %	17.3	99	
6.3.4	FDI net outflows, % GDP	-0.1	107	○

7	Creative outputs	26.0	96	
7.1	Creative intangibles.....	38.4	79	
7.1.1	Domestic res trademark reg/bn PPP\$ GDP	n/a	n/a	
7.1.2	Madrid resident trademark reg/bn PPP\$ GDP	n/a	n/a	
7.1.3	ICT & business model creation†	44.5	94	
7.1.4	ICT & organizational model creation†	32.4	117	○

7.2	Creative goods & services	12.7	90	
7.2.1	Recreation & culture consumption, %.....	2.5	75	
7.2.2	National feature films/mn pop. 15–69.....	4.2	29	●
7.2.3	Paid-for dailies, circulation/th pop. 15–69.....	26.1	100	
7.2.4	Creative goods exports, %.....	1.3	63	
7.2.5	Creative services exports, %.....	0.6	83	

7.3	Online creativity.....	14.6	96	
7.3.1	Generic top-level domains (TLDs)/th pop. 15–69.....	2.0	84	
7.3.2	Country-code TLDs/th pop. 15–69.....	11.4	95	
7.3.3	Wikipedia monthly edits/mn pop. 15–69.....	329.9	88	
7.3.4	Video uploads on YouTube/pop. 15–69.....	43.2	93	

Key indicators

Population (millions)	3.9
GDP per capita, PPP\$	8,174.1
GDP (US\$ billions)	18.3

	Score (0–100) or value (hard data)	Rank
Global Innovation Index 2012 (out of 141).....	34.2	72
Innovation Output Sub-Index	26.9	80
Innovation Input Sub-Index	41.4	66
Innovation Efficiency Index	0.6	102
Global Innovation Index 2011 (out of 125)	76	
GII 2012 rank among GII 2011 economies (125)	70	

1	Institutions.....	51.4	79
1.1	Political environment	50.3	84
1.1.1	Political stability*.....	49.2	103
1.1.2	Government effectiveness*.....	21.7	114
1.1.3	Press freedom*.....	80.1	49
1.2	Regulatory environment.....	70.6	51
1.2.1	Regulatory quality*.....	49.2	76
1.2.2	Rule of law*.....	38.1	77
1.2.3	Cost of redundancy dismissal, salary weeks	9.2	30 ●
1.3	Business environment	33.3	101
1.3.1	Ease of starting a business*.....	5.0	133 ○
1.3.2	Ease of resolving insolvency*.....	51.0	69
1.3.3	Ease of paying taxes*.....	43.8	79
2	Human capital & research.....	41.6	52
2.1	Education.....	70.3	9 ●
2.1.1	Current expenditure on education, % GNI	n/a	n/a
2.1.2	Public expenditure/pupil, % GDP/cap.....	n/a	n/a
2.1.3	School life expectancy, years.....	13.4	62
2.1.4	PISA scales in reading, maths, & science	n/a	n/a
2.1.5	Pupil-teacher ratio, secondary	12.6	56
2.2	Tertiary education	40.3	51
2.2.1	Tertiary enrolment, % gross.....	35.9	66
2.2.2	Graduates in science & engineering, %	n/a	n/a
2.2.3	Tertiary inbound mobility, %.....	n/a	n/a
2.2.4	Gross tertiary outbound enrolment, %	4.2	16 ●
2.3	Research & development (R&D).....	14.3	108
2.3.1	Researchers, headcounts/mn pop.	781.4	61
2.3.2	Gross expenditure on R&D, % GDP.....	0.0	113 ○
2.3.3	Quality of scientific research institutions†	37.0	95
3	Infrastructure.....	28.9	90
3.1	Information & communication technologies (ICT).....	26.9	89
3.1.1	ICT access*.....	43.5	68
3.1.2	ICT use*	26.7	49
3.1.3	Government's online service*	37.3	98
3.1.4	E-participation*.....	0.0	127 ○
3.2	General infrastructure	28.9	108
3.2.1	Electricity output, kWh/cap.....	4,013.1	51
3.2.2	Electricity consumption, kWh/cap	2,867.5	59
3.2.3	Quality of trade & transport infrastructure*	30.5	102
3.2.4	Gross capital formation, % GDP.....	19.5	96
3.3	Ecological sustainability	30.8	69
3.3.1	GDP/unit of energy use, 2000 PPP\$/kg oil eq.....	5.6	63
3.3.2	Environmental performance*.....	36.8	116 ○
3.3.3	ISO 14001 environmental certificates/bn PPP\$ GDP	3.3	29 ●
4	Market sophistication	41.2	58
4.1	Credit	37.8	48
4.1.1	Ease of getting credit*	50.4	62
4.1.2	Domestic credit to private sector, % GDP	54.7	59
4.1.3	Microfinance gross loans, % GDP	3.8	13 ●

4.2	Investment.....	18.0	92
4.2.1	Ease of protecting investors*.....	35.9	76
4.2.2	Market capitalization, % GDP.....	n/a	n/a
4.2.3	Total value of stocks traded, % GDP	n/a	n/a
4.2.4	Venture capital deals/tr PPP\$ GDP.....	0.0	65 ○
4.3	Trade & competition	67.7	43
4.3.1	Applied tariff rate, weighted mean, %.....	1.8	40
4.3.2	Non-agricultural mkt access weighted tariff, %.....	0.0	4 ●
4.3.3	Imports of goods & services, % GDP	56.7	39
4.3.4	Exports of goods & services, % GDP	35.9	75
4.3.5	Intensity of local competition†	47.0	127 ○
5	Business sophistication	44.2	45
5.1	Knowledge workers.....	65.0	30 ●
5.1.1	Knowledge-intensive employment, %.....	n/a	n/a
5.1.2	Firms offering formal training, % firms.....	66.5	6 ●
5.1.3	R&D performed by business, %.....	n/a	n/a
5.1.4	R&D financed by business, %	n/a	n/a
5.1.5	GMAT mean score.....	484.9	82
5.1.6	GMAT test takers/mn pop. 20–34.....	48.1	81
5.2	Innovation linkages	43.1	43
5.2.1	University/industry research collaboration†	39.8	81
5.2.2	State of cluster development†	39.6	75
5.2.3	R&D financed by abroad, %.....	n/a	n/a
5.2.4	JV–strategic alliance deals/tr PPP\$ GDP	0.0	114 ○
5.2.5	PCT patent filings with foreign inventor, %.....	100.0	1 ●
5.3	Knowledge absorption	24.4	127 ○
5.3.1	Royalty & license fees payments/th GDP.....	0.3	98 ○
5.3.2	High-tech imports less re-imports, %	5.3	96
5.3.3	Computer & comm. service imports, %.....	24.9	86
5.3.4	FDI net inflows, % GDP	1.4	98
6	Knowledge & technology outputs	25.9	72
6.1	Knowledge creation.....	18.0	86
6.1.1	Domestic resident patent ap/bn PPP\$ GDP	1.8	56
6.1.2	PCT resident patent ap/bn PPP\$ GDP	0.2	59
6.1.3	Domestic res utility model ap/bn PPP\$ GDP	0.4	41
6.1.4	Scientific & technical articles/bn PPP\$ GDP	2.1	81
6.2	Knowledge impact	34.1	65
6.2.1	Growth rate of PPP\$ GDP/worker, %	–0.2	105 ○
6.2.2	New businesses/th pop. 15–64.....	0.6	80
6.2.3	Computer software spending, % GDP.....	n/a	n/a
6.2.4	ISO 9001 quality certificates/bn PPP\$ GDP	31.0	13 ●
6.3	Knowledge diffusion	25.7	72
6.3.1	Royalty & license fees receipts/th GDP.....	0.9	34
6.3.2	High-tech exports less re-exports, %.....	1.5	66
6.3.3	Computer & comm. service exports, %	30.5	58
6.3.4	FDI net outflows, % GDP	0.3	66
7	Creative outputs	27.9	90
7.1	Creative intangibles.....	33.0	103
7.1.1	Domestic res trademark reg/bn PPP\$ GDP.....	18.8	64
7.1.2	Madrid resident trademark reg/bn PPP\$ GDP	2.4	7 ●
7.1.3	ICT & business model creation†	42.7	103
7.1.4	ICT & organizational model creation†	30.5	120 ○
7.2	Creative goods & services	19.9	74
7.2.1	Recreation & culture consumption, %.....	4.7	57
7.2.2	National feature films/mn pop. 15–69.....	2.1	49
7.2.3	Paid-for dailies, circulation/th pop. 15–69.....	67.5	71
7.2.4	Creative goods exports, %.....	2.3	36 ●
7.2.5	Creative services exports, %.....	0.4	88
7.3	Online creativity.....	25.6	54
7.3.1	Generic top-level domains (TLDs)/th pop. 15–69.....	3.9	66
7.3.2	Country-code TLDs/th pop. 15–69.....	24.2	63
7.3.3	Wikipedia monthly edits/mn pop. 15–69.....	2,132.6	48
7.3.4	Video uploads on YouTube/pop. 15–69	63.3	44

Botswana

Key indicators

Population (millions)	1.9
GDP per capita, PPP\$	16,279.5
GDP (US\$ billions)	16.4

	Score (0–100) or value (hard data)	Rank
Global Innovation Index 2012 (out of 141).....	31.4	85
Innovation Output Sub-Index	19.9	121
Innovation Input Sub-Index	42.8	54
Innovation Efficiency Index	0.5	139 ○
Global Innovation Index 2011 (out of 125)	79	79
GII 2012 rank among GII 2011 economies (125)	81	81

1	Institutions.....	72.3	31 ●
1.1	Political environment	75.6	33 ●
1.1.1	Political stability*.....	87.3	20 ●
1.1.2	Government effectiveness*.....	54.3	48
1.1.3	Press freedom*.....	85.1	38
1.2	Regulatory environment.....	68.7	64
1.2.1	Regulatory quality*.....	63.7	51
1.2.2	Rule of law*.....	65.3	41
1.2.3	Cost of redundancy dismissal, salary weeks.....	21.7	100
1.3	Business environment	72.6	26 ●
1.3.1	Ease of starting a business*.....	47.4	74
1.3.2	Ease of resolving insolvency*.....	82.7	25 ●
1.3.3	Ease of paying taxes*.....	87.7	18 ●
2	Human capital & research.....	37.5	62
2.1	Education.....	64.2	20 ●
2.1.1	Current expenditure on education, % GNI	7.6	6 ●
2.1.2	Public expenditure/pupil, % GDP/cap.....	27.9	14 ●
2.1.3	School life expectancy, years.....	12.2	83
2.1.4	PISA scales in reading, maths, & science.....	n/a	n/a
2.1.5	Pupil-teacher ratio, secondary	13.9	63
2.2	Tertiary education	28.8	79
2.2.1	Tertiary enrolment, % gross.....	7.4	113
2.2.2	Graduates in science & engineering, %	13.0	86
2.2.3	Tertiary inbound mobility, %.....	4.2	34
2.2.4	Gross tertiary outbound enrolment, %	4.0	18 ●
2.3	Research & development (R&D).....	19.4	82
2.3.1	Researchers, headcounts/mn pop.	923.4	59
2.3.2	Gross expenditure on R&D, % GDP.....	0.5	55
2.3.3	Quality of scientific research institutions†	39.7	78
3	Infrastructure.....	30.2	82
3.1	Information & communication technologies (ICT)	18.6	107
3.1.1	ICT access*.....	31.2	98
3.1.2	ICT use*.....	4.4	110
3.1.3	Government's online service*.....	36.0	102
3.1.4	E-participation*.....	2.6	115 ○
3.2	General infrastructure	35.9	73
3.2.1	Electricity output, kWh/cap.....	245.3	112 ○
3.2.2	Electricity consumption, kWh/cap.....	1,527.7	80
3.2.3	Quality of trade & transport infrastructure*.....	27.3	111
3.2.4	Gross capital formation, % GDP.....	36.3	7 ●
3.3	Ecological sustainability	36.3	55
3.3.1	GDP/unit of energy use, 2000 PPP\$/kg oil eq.....	9.2	19 ●
3.3.2	Environmental performance*.....	53.7	64
3.3.3	ISO 14001 environmental certificates/bn PPP\$ GDP	0.1	126 ○
4	Market sophistication	35.1	86
4.1	Credit	31.7	63
4.1.1	Ease of getting credit*.....	57.7	43
4.1.2	Domestic credit to private sector, % GDP.....	23.4	108
4.1.3	Microfinance gross loans, % GDP.....	n/a	n/a

4.2	Investment.....	19.3	85
4.2.1	Ease of protecting investors*.....	66.9	35
4.2.2	Market capitalization, % GDP.....	27.4	64
4.2.3	Total value of stocks traded, % GDP.....	0.9	71
4.2.4	Venture capital deals/tr PPP\$ GDP.....	0.0	65 ○
4.3	Trade & competition	54.2	114
4.3.1	Applied tariff rate, weighted mean, %.....	5.2	81
4.3.2	Non-agricultural mkt access weighted tariff, %.....	2.6	124 ○
4.3.3	Imports of goods & services, % GDP.....	31.9	98
4.3.4	Exports of goods & services, % GDP.....	28.6	96
4.3.5	Intensity of local competition†	62.6	71
5	Business sophistication	39.1	67
5.1	Knowledge workers.....	41.1	83
5.1.1	Knowledge-intensive employment, %.....	17.1	81
5.1.2	Firms offering formal training, % firms.....	51.9	26 ●
5.1.3	R&D performed by business, %.....	15.6	69
5.1.4	R&D financed by business, %	n/a	n/a
5.1.5	GMAT mean score.....	452.6	106
5.1.6	GMAT test takers/mn pop. 20–34.....	40.7	93
5.2	Innovation linkages	44.1	40
5.2.1	University/industry research collaboration†	43.2	64
5.2.2	State of cluster development†	37.2	85
5.2.3	R&D financed by abroad, %.....	n/a	n/a
5.2.4	JV–strategic alliance deals/tr PPP\$ GDP	6.6	98
5.2.5	PCT patent filings with foreign inventor, %.....	100.0	1 ●
5.3	Knowledge absorption	32.1	85
5.3.1	Royalty & license fees payments/th GDP.....	0.8	79
5.3.2	High-tech imports less re-imports, %	n/a	n/a
5.3.3	Computer & comm. service imports, %.....	26.0	81
5.3.4	FDI net inflows, % GDP.....	3.6	48
6	Knowledge & technology outputs	20.1	106
6.1	Knowledge creation.....	20.5	74
6.1.1	Domestic resident patent ap/bn PPP\$ GDP	n/a	n/a
6.1.2	PCT resident patent ap/bn PPP\$ GDP.....	0.0	97 ○
6.1.3	Domestic res utility model ap/bn PPP\$ GDP.....	n/a	n/a
6.1.4	Scientific & technical articles/bn PPP\$ GDP.....	1.8	89
6.2	Knowledge impact	8.5	135 ○
6.2.1	Growth rate of PPP\$ GDP/worker, %.....	n/a	n/a
6.2.2	New businesses/th pop. 15–64.....	n/a	n/a
6.2.3	Computer software spending, % GDP.....	n/a	n/a
6.2.4	ISO 9001 quality certificates/bn PPP\$ GDP	0.5	126 ○
6.3	Knowledge diffusion	31.3	50
6.3.1	Royalty & license fees receipts/th GDP.....	0.0	92 ○
6.3.2	High-tech exports less re-exports, %.....	n/a	n/a
6.3.3	Computer & comm. service exports, %	34.0	54
6.3.4	FDI net outflows, % GDP	0.0	99
7	Creative outputs	19.7	120
7.1	Creative intangibles.....	31.2	109
7.1.1	Domestic res trademark reg/bn PPP\$ GDP.....	n/a	n/a
7.1.2	Madrid resident trademark reg/bn PPP\$ GDP.....	0.0	59 ○
7.1.3	ICT & business model creation†	40.1	115 ○
7.1.4	ICT & organizational model creation†	53.0	51
7.2	Creative goods & services	2.7	127 ○
7.2.1	Recreation & culture consumption, %.....	n/a	n/a
7.2.2	National feature films/mn pop. 15–69.....	n/a	n/a
7.2.3	Paid-for dailies, circulation/th pop. 15–69.....	8.6	116
7.2.4	Creative goods exports, %.....	0.1	113
7.2.5	Creative services exports, %.....	1.2	67
7.3	Online creativity.....	13.8	98
7.3.1	Generic top-level domains (TLDs)/th pop. 15–69.....	0.3	118
7.3.2	Country-code TLDs/th pop. 15–69.....	3.9	108
7.3.3	Wikipedia monthly edits/mn pop. 15–69.....	191.3	98
7.3.4	Video uploads on YouTube/pop. 15–69.....	50.2	78

Key indicators

Population (millions)	194.9
GDP per capita, PPP\$	11,845.8
GDP (US\$ billions)	2,517.9

	Score (0–100) or value (hard data)	Rank
Global Innovation Index 2012 (out of 141).....	36.6	58
Innovation Output Sub-Index	33.0	52
Innovation Input Sub-Index	40.2	69
Innovation Efficiency Index	0.8	39
Global Innovation Index 2011 (out of 125)	47	
GII 2012 rank among GII 2011 economies (125)	56	
1 Institutions.....	50.4	84
1.1 Political environment	59.6	62
1.1.1 Political stability*.....	66.5	63
1.1.2 Government effectiveness*.....	42.8	65
1.1.3 Press freedom*.....	69.4	78
1.2 Regulatory environment.....	71.0	48
1.2.1 Regulatory quality*.....	56.5	67
1.2.2 Rule of law*.....	47.8	58
1.2.3 Cost of redundancy dismissal, salary weeks.....	13.2	58
1.3 Business environment	20.6	127 ○
1.3.1 Ease of starting a business*.....	28.0	101
1.3.2 Ease of resolving insolvency*.....	15.1	119 ○
1.3.3 Ease of paying taxes*.....	18.7	113 ○
2 Human capital & research.....	31.5	83
2.1 Education.....	49.6	73
2.1.1 Current expenditure on education, % GNI	4.8	43
2.1.2 Public expenditure/pupil, % GDP/cap.....	19.1	67
2.1.3 School life expectancy, years.....	14.0	49
2.1.4 PISA scales in reading, maths, & science.....	401.0	56 ○
2.1.5 Pupil-teacher ratio, secondary	17.1	83
2.2 Tertiary education	16.4	115 ○
2.2.1 Tertiary enrolment, % gross.....	36.1	65
2.2.2 Graduates in science & engineering, %	12.2	91 ○
2.2.3 Tertiary inbound mobility, %.....	0.0	90 ○
2.2.4 Gross tertiary outbound enrolment, %	0.2	129 ○
2.3 Research & development (R&D).....	28.4	47
2.3.1 Researchers, headcounts/mn pop.	1,100.1	52
2.3.2 Gross expenditure on R&D, % GDP.....	1.1	34
2.3.3 Quality of scientific research institutions†.....	52.3	40
3 Infrastructure.....	39.1	49
3.1 Information & communication technologies (ICT).....	46.1	47
3.1.1 ICT access*.....	46.2	62
3.1.2 ICT use*	21.1	61
3.1.3 Government's online service*.....	67.3	32
3.1.4 E-participation*.....	50.0	31 ●
3.2 General infrastructure	34.4	81
3.2.1 Electricity output, kWh/cap.....	2,436.1	68
3.2.2 Electricity consumption, kWh/cap.....	2,200.6	66
3.2.3 Quality of trade & transport infrastructure*.....	52.5	36
3.2.4 Gross capital formation, % GDP.....	19.2	100
3.3 Ecological sustainability	36.6	54
3.3.1 GDP/unit of energy use, 2000 PPP\$/kg oil eq.....	6.9	39
3.3.2 Environmental performance*.....	60.9	29 ●
3.3.3 ISO 14001 environmental certificates/bn PPP\$ GDP	1.3	55
4 Market sophistication	35.6	82
4.1 Credit	15.3	108
4.1.1 Ease of getting credit*	27.0	88
4.1.2 Domestic credit to private sector, % GDP.....	57.0	55
4.1.3 Microfinance gross loans, % GDP.....	0.1	72 ○

4.2 Investment.....	35.4	42
4.2.1 Ease of protecting investors*.....	46.7	60
4.2.2 Market capitalization, % GDP.....	74.0	32
4.2.3 Total value of stocks traded, % GDP.....	43.2	24 ●
4.2.4 Venture capital deals/tr PPP\$ GDP.....	10.0	47
4.3 Trade & competition	56.1	108
4.3.1 Applied tariff rate, weighted mean, %.....	7.6	106
4.3.2 Non-agricultural mkt access weighted tariff, %.....	0.5	55
4.3.3 Imports of goods & services, % GDP.....	12.1	141 ○
4.3.4 Exports of goods & services, % GDP.....	11.2	139 ○
4.3.5 Intensity of local competition†	69.3	46
5 Business sophistication	44.4	42
5.1 Knowledge workers.....	52.6	48
5.1.1 Knowledge-intensive employment, %.....	19.3	72
5.1.2 Firms offering formal training, % firms.....	52.9	22 ●
5.1.3 R&D performed by business, %.....	40.2	44
5.1.4 R&D financed by business, %	43.9	35
5.1.5 GMAT mean score.....	563.8	24 ●
5.1.6 GMAT test takers/mn pop. 20–34.....	33.5	98
5.2 Innovation linkages	38.0	57
5.2.1 University/industry research collaboration†	53.4	36
5.2.2 State of cluster development†	52.1	30 ●
5.2.3 R&D financed by abroad, %.....	n/a	n/a
5.2.4 JV–strategic alliance deals/tr PPP\$ GDP	16.7	70
5.2.5 PCT patent filings with foreign inventor, %.....	10.1	93 ○
5.3 Knowledge absorption	42.6	38
5.3.1 Royalty & license fees payments/th GDP.....	1.4	60
5.3.2 High-tech imports less re-imports, %	14.3	23 ●
5.3.3 Computer & comm. service imports, %.....	49.4	17 ●
5.3.4 FDI net inflows, % GDP.....	2.3	72
6 Knowledge & technology outputs	30.5	55
6.1 Knowledge creation.....	22.7	67
6.1.1 Domestic resident patent ap/bn PPP\$ GDP	1.2	64
6.1.2 PCT resident patent ap/bn PPP\$ GDP.....	0.2	55
6.1.3 Domestic res utility model ap/bn PPP\$ GDP.....	0.9	35
6.1.4 Scientific & technical articles/bn PPP\$ GDP.....	6.1	50
6.2 Knowledge impact	34.9	63
6.2.1 Growth rate of PPP\$ GDP/worker, %.....	4.1	31
6.2.2 New businesses/th pop. 15–64.....	2.4	41
6.2.3 Computer software spending, % GDP.....	0.1	53
6.2.4 ISO 9001 quality certificates/bn PPP\$ GDP	9.0	50
6.3 Knowledge diffusion	34.1	44
6.3.1 Royalty & license fees receipts/th GDP.....	0.2	60
6.3.2 High-tech exports less re-exports, %.....	3.6	49
6.3.3 Computer & comm. service exports, %	57.0	16 ●
6.3.4 FDI net outflows, % GDP	0.6	51
7 Creative outputs	35.4	54
7.1 Creative intangibles.....	41.2	67
7.1.1 Domestic res trademark reg/bn PPP\$ GDP.....	21.9	61
7.1.2 Madrid resident trademark reg/bn PPP\$ GDP.....	n/a	n/a
7.1.3 ICT & business model creation†	62.7	33
7.1.4 ICT & organizational model creation†	50.4	62
7.2 Creative goods & services	29.7	47
7.2.1 Recreation & culture consumption, %.....	5.1	52
7.2.2 National feature films/mn pop. 15–69.....	0.6	76
7.2.3 Paid-for dailies, circulation/th pop. 15–69.....	60.9	79
7.2.4 Creative goods exports, %.....	0.5	88
7.2.5 Creative services exports, %.....	20.5	4 ●
7.3 Online creativity.....	29.7	49
7.3.1 Generic top-level domains (TLDs)/th pop. 15–69.....	6.6	53
7.3.2 Country-code TLDs/th pop. 15–69.....	42.7	43
7.3.3 Wikipedia monthly edits/mn pop. 15–69.....	1,048.8	60
7.3.4 Video uploads on YouTube/pop. 15–69.....	64.3	41

Brunei Darussalam

Key indicators

Population (millions)	0.4
GDP per capita, PPP\$	49,517.8
GDP (US\$ billions)	15.6

	Score (0–100) or value (hard data)	Rank
Global Innovation Index 2012 (out of 141).....	37.7	53
Innovation Output Sub-Index	29.7	69
Innovation Input Sub-Index	45.8	46
Innovation Efficiency Index	0.6	104
Global Innovation Index 2011 (out of 125)	75	75
GII 2012 rank among GII 2011 economies (125)	51	51

1	Institutions.....	73.5	28
1.1	Political environment	71.6	41
1.1.1	Political stability*.....	95.3	4 ●
1.1.2	Government effectiveness*.....	64.2	34
1.1.3	Press freedom*.....	55.3	100
1.2	Regulatory environment.....	87.2	22 ●
1.2.1	Regulatory quality*.....	80.0	27 ●
1.2.2	Rule of law*.....	68.9	35
1.2.3	Cost of redundancy dismissal, salary weeks.....	8.0	1 ●
1.3	Business environment	61.6	39
1.3.1	Ease of starting a business*.....	21.5	110
1.3.2	Ease of resolving insolvency*.....	73.3	38
1.3.3	Ease of paying taxes*.....	89.9	15 ●
2	Human capital & research.....	36.2	66
2.1	Education.....	43.5	98
2.1.1	Current expenditure on education, % GNI	2.0	125 ○
2.1.2	Public expenditure/pupil, % GDP/cap.....	7.2	114 ○
2.1.3	School life expectancy, years.....	15.0	34
2.1.4	PISA scales in reading, maths, & science.....	n/a	n/a
2.1.5	Pupil-teacher ratio, secondary	10.5	33
2.2	Tertiary education	50.2	17 ●
2.2.1	Tertiary enrolment, % gross.....	17.2	93
2.2.2	Graduates in science & engineering, %	21.9	39
2.2.3	Tertiary inbound mobility, %.....	4.0	35
2.2.4	Gross tertiary outbound enrolment, %	9.0	1 ●
2.3	Research & development (R&D).....	14.9	106
2.3.1	Researchers, headcounts/mn pop.	685.5	64
2.3.2	Gross expenditure on R&D, % GDP.....	0.0	110 ○
2.3.3	Quality of scientific research institutions†	39.1	82
3	Infrastructure.....	38.3	52
3.1	Information & communication technologies (ICT).....	53.0	35
3.1.1	ICT access*.....	65.1	34
3.1.2	ICT use*.....	40.1	38
3.1.3	Government's online service*.....	59.5	44
3.1.4	E-participation*.....	47.4	34
3.2	General infrastructure	34.9	79
3.2.1	Electricity output, kWh/cap.....	8,896.6	16 ●
3.2.2	Electricity consumption, kWh/cap.....	8,485.0	16 ●
3.2.3	Quality of trade & transport infrastructure*.....	n/a	n/a
3.2.4	Gross capital formation, % GDP.....	13.7	135 ○
3.3	Ecological sustainability	26.9	89
3.3.1	GDP/unit of energy use, 2000 PPP\$/kg oil eq.....	2.6	106 ○
3.3.2	Environmental performance*.....	62.5	26
3.3.3	ISO 14001 environmental certificates/bn PPP\$ GDP	1.0	61
4	Market sophistication	44.5	47
4.1	Credit	17.3	101
4.1.1	Ease of getting credit*.....	21.1	104
4.1.2	Domestic credit to private sector, % GDP.....	44.5	75
4.1.3	Microfinance gross loans, % GDP.....	n/a	n/a

4.2	Investment.....	44.8	26 ●
4.2.1	Ease of protecting investors*.....	22.3	100
4.2.2	Market capitalization, % GDP.....	n/a	n/a
4.2.3	Total value of stocks traded, % GDP.....	n/a	n/a
4.2.4	Venture capital deals/tr PPP\$ GDP.....	47.3	27 ●
4.3	Trade & competition	71.3	21 ●
4.3.1	Applied tariff rate, weighted mean, %.....	4.1	70
4.3.2	Non-agricultural mkt access weighted tariff, %.....	0.3	43
4.3.3	Imports of goods & services, % GDP.....	27.6	116 ○
4.3.4	Exports of goods & services, % GDP.....	78.3	13 ●
4.3.5	Intensity of local competition†	65.9	61
5	Business sophistication	36.4	85
5.1	Knowledge workers.....	38.7	92
5.1.1	Knowledge-intensive employment, %.....	28.4	45
5.1.2	Firms offering formal training, % firms.....	n/a	n/a
5.1.3	R&D performed by business, %.....	2.3	83 ○
5.1.4	R&D financed by business, %	1.6	85 ○
5.1.5	GMAT mean score.....	526.0	55
5.1.6	GMAT test takers/mn pop. 20–34.....	44.8	84
5.2	Innovation linkages	40.6	52
5.2.1	University/industry research collaboration†	46.7	48
5.2.2	State of cluster development†	45.6	52
5.2.3	R&D financed by abroad, %.....	6.6	50
5.2.4	JV–strategic alliance deals/tr PPP\$ GDP	23.2	60
5.2.5	PCT patent filings with foreign inventor, %.....	100.0	1 ●
5.3	Knowledge absorption	30.0	96
5.3.1	Royalty & license fees payments/th GDP.....	0.7	80
5.3.2	High-tech imports less re-imports, %	n/a	n/a
5.3.3	Computer & comm. service imports, %.....	22.4	92
5.3.4	FDI net inflows, % GDP.....	3.0	59
6	Knowledge & technology outputs	23.9	84
6.1	Knowledge creation.....	1.6	136 ○
6.1.1	Domestic resident patent ap/bn PPP\$ GDP	n/a	n/a
6.1.2	PCT resident patent ap/bn PPP\$ GDP.....	n/a	n/a
6.1.3	Domestic res utility model ap/bn PPP\$ GDP.....	n/a	n/a
6.1.4	Scientific & technical articles/bn PPP\$ GDP.....	0.5	128 ○
6.2	Knowledge impact	31.5	76
6.2.1	Growth rate of PPP\$ GDP/worker, %.....	n/a	n/a
6.2.2	New businesses/th pop. 15–64.....	n/a	n/a
6.2.3	Computer software spending, % GDP.....	n/a	n/a
6.2.4	ISO 9001 quality certificates/bn PPP\$ GDP	3.0	81
6.3	Knowledge diffusion	38.6	34
6.3.1	Royalty & license fees receipts/th GDP.....	n/a	n/a
6.3.2	High-tech exports less re-exports, %.....	n/a	n/a
6.3.3	Computer & comm. service exports, %	21.4	88
6.3.4	FDI net outflows, % GDP	0.2	76
7	Creative outputs	35.5	53
7.1	Creative intangibles.....	54.3	17 ●
7.1.1	Domestic res trademark reg/bn PPP\$ GDP.....	n/a	n/a
7.1.2	Madrid resident trademark reg/bn PPP\$ GDP.....	n/a	n/a
7.1.3	ICT & business model creation†	51.8	67
7.1.4	ICT & organizational model creation†	56.8	35
7.2	Creative goods & services	9.1	104
7.2.1	Recreation & culture consumption, %.....	n/a	n/a
7.2.2	National feature films/mn pop. 15–69.....	n/a	n/a
7.2.3	Paid-for dailies, circulation/th pop. 15–69.....	147.0	39
7.2.4	Creative goods exports, %.....	0.1	114 ○
7.2.5	Creative services exports, %.....	n/a	n/a
7.3	Online creativity.....	24.1	57
7.3.1	Generic top-level domains (TLDs)/th pop. 15–69.....	4.2	63
7.3.2	Country-code TLDs/th pop. 15–69.....	22.7	69
7.3.3	Wikipedia monthly edits/mn pop. 15–69.....	876.6	68
7.3.4	Video uploads on YouTube/pop. 15–69.....	65.1	37

Key indicators

Population (millions)	7.5
GDP per capita, PPP\$	13,562.9
GDP (US\$ billions)	54.3

	Score (0–100) or value (hard data)	Rank
Global Innovation Index 2012 (out of 141).....	40.7	43
Innovation Output Sub-Index	35.8	42
Innovation Input Sub-Index	45.5	47
Innovation Efficiency Index	0.8	49
Global Innovation Index 2011 (out of 125)		42
GII 2012 rank among GII 2011 economies (125)		42
1 Institutions.....	67.2	46
1.1 Political environment	63.1	56
1.1.1 Political stability*.....	74.4	50
1.1.2 Government effectiveness*.....	41.2	66
1.1.3 Press freedom*.....	73.6	63
1.2 Regulatory environment.....	78.2	38
1.2.1 Regulatory quality*.....	67.1	43
1.2.2 Rule of law*.....	45.6	62
1.2.3 Cost of redundancy dismissal, salary weeks.....	8.0	1 ●
1.3 Business environment	60.4	43
1.3.1 Ease of starting a business*.....	74.8	35
1.3.2 Ease of resolving insolvency*.....	43.8	79
1.3.3 Ease of paying taxes*.....	62.5	53
2 Human capital & research.....	39.9	56
2.1 Education.....	54.3	58
2.1.1 Current expenditure on education, % GNI	3.8	83
2.1.2 Public expenditure/pupil, % GDP/cap.....	25.4	23
2.1.3 School life expectancy, years.....	13.8	53
2.1.4 PISA scales in reading, maths, & science.....	432.2	44
2.1.5 Pupil-teacher ratio, secondary	12.0	46
2.2 Tertiary education	43.6	39
2.2.1 Tertiary enrolment, % gross.....	53.0	42
2.2.2 Graduates in science & engineering, %	18.8	61
2.2.3 Tertiary inbound mobility, %.....	3.4	40
2.2.4 Gross tertiary outbound enrolment, %	4.6	14 ●
2.3 Research & development (R&D).....	21.8	70
2.3.1 Researchers, headcounts/mn pop.	1,767.3	43
2.3.2 Gross expenditure on R&D, % GDP.....	0.5	52
2.3.3 Quality of scientific research institutions†.....	40.2	75
3 Infrastructure.....	41.2	47
3.1 Information & communication technologies (ICT).....	35.3	66
3.1.1 ICT access*.....	57.7	46
3.1.2 ICT use*	31.7	46
3.1.3 Government's online service*.....	49.0	71
3.1.4 E-participation*.....	2.6	115 ○
3.2 General infrastructure	35.9	72
3.2.1 Electricity output, kWh/cap.....	5,603.3	38
3.2.2 Electricity consumption, kWh/cap.....	4,400.9	45
3.2.3 Quality of trade & transport infrastructure*.....	32.5	94 ○
3.2.4 Gross capital formation, % GDP.....	24.9	44
3.3 Ecological sustainability	52.5	16 ●
3.3.1 GDP/unit of energy use, 2000 PPP\$/kg oil eq.....	4.3	86 ○
3.3.2 Environmental performance*.....	56.3	51
3.3.3 ISO 14001 environmental certificates/bn PPP\$ GDP	10.3	7 ●
4 Market sophistication	42.6	54
4.1 Credit	43.0	39
4.1.1 Ease of getting credit*	87.6	8 ●
4.1.2 Domestic credit to private sector, % GDP.....	74.6	44
4.1.3 Microfinance gross loans, % GDP.....	1.4	31

4.2 Investment.....	18.1	91
4.2.1 Ease of protecting investors*.....	66.9	35
4.2.2 Market capitalization, % GDP.....	15.2	90 ○
4.2.3 Total value of stocks traded, % GDP.....	0.4	84 ○
4.2.4 Venture capital deals/tr PPP\$ GDP.....	0.0	65 ○
4.3 Trade & competition	66.6	52
4.3.1 Applied tariff rate, weighted mean, %.....	1.6	11
4.3.2 Non-agricultural mkt access weighted tariff, %.....	2.0	92 ○
4.3.3 Imports of goods & services, % GDP.....	59.7	36
4.3.4 Exports of goods & services, % GDP.....	57.8	26
4.3.5 Intensity of local competition†	57.3	95 ○
5 Business sophistication	36.8	84
5.1 Knowledge workers.....	51.8	52
5.1.1 Knowledge-intensive employment, %.....	28.6	44
5.1.2 Firms offering formal training, % firms.....	30.7	64
5.1.3 R&D performed by business, %.....	30.0	53
5.1.4 R&D financed by business, %	30.6	51
5.1.5 GMAT mean score.....	585.5	8 ●
5.1.6 GMAT test takers/mn pop. 20–34.....	334.1	14 ●
5.2 Innovation linkages	32.7	125 ○
5.2.1 University/industry research collaboration†	23.7	112 ○
5.2.2 State of cluster development†	36.6	90
5.2.3 R&D financed by abroad, %.....	6.8	47
5.2.4 JV-strategic alliance deals/tr PPP\$ GDP	9.8	88
5.2.5 PCT patent filings with foreign inventor, %.....	20.0	77 ○
5.3 Knowledge absorption	35.0	70
5.3.1 Royalty & license fees payments/th GDP.....	2.4	38
5.3.2 High-tech imports less re-imports, %	7.5	77
5.3.3 Computer & comm. service imports, %.....	34.9	54
5.3.4 FDI net inflows, % GDP.....	4.5	42
6 Knowledge & technology outputs	35.7	41
6.1 Knowledge creation.....	27.3	59
6.1.1 Domestic resident patent ap/bn PPP\$ GDP	2.6	47
6.1.2 PCT resident patent ap/bn PPP\$ GDP	0.3	54
6.1.3 Domestic res utility model ap/bn PPP\$ GDP.....	1.7	21
6.1.4 Scientific & technical articles/bn PPP\$ GDP.....	7.7	44
6.2 Knowledge impact	55.5	9 ●
6.2.1 Growth rate of PPP\$ GDP/worker, %	5.4	16
6.2.2 New businesses/th pop. 15–64.....	7.2	13 ●
6.2.3 Computer software spending, % GDP.....	0.2	34
6.2.4 ISO 9001 quality certificates/bn PPP\$ GDP	64.4	2 ●
6.3 Knowledge diffusion	24.2	79
6.3.1 Royalty & license fees receipts/th GDP.....	0.7	37
6.3.2 High-tech exports less re-exports, %.....	4.1	47
6.3.3 Computer & comm. service exports, %	22.2	85
6.3.4 FDI net outflows, % GDP	0.5	54
7 Creative outputs	35.9	49
7.1 Creative intangibles.....	43.9	55
7.1.1 Domestic res trademark reg/bn PPP\$ GDP.....	106.9	6 ●
7.1.2 Madrid resident trademark reg/bn PPP\$ GDP.....	1.7	11
7.1.3 ICT & business model creation†	48.5	78
7.1.4 ICT & organizational model creation†	40.3	97 ○
7.2 Creative goods & services	24.6	60
7.2.1 Recreation & culture consumption, %.....	5.3	48
7.2.2 National feature films/mn pop. 15–69.....	2.2	48
7.2.3 Paid-for dailies, circulation/th pop. 15–69.....	155.7	34
7.2.4 Creative goods exports, %.....	1.4	59
7.2.5 Creative services exports, %.....	6.5	32
7.3 Online creativity.....	31.2	45
7.3.1 Generic top-level domains (TLDs)/th pop. 15–69.....	12.5	43
7.3.2 Country-code TLDs/th pop. 15–69.....	23.6	65
7.3.3 Wikipedia monthly edits/mn pop. 15–69.....	5,226.9	29
7.3.4 Video uploads on YouTube/pop. 15–69.....	61.9	52

Burkina Faso

Key indicators

Population (millions)	15.0
GDP per capita, PPP\$	1,456.7
GDP (US\$ billions)	10.1

	Score (0–100) or value (hard data)	Rank
Global Innovation Index 2012 (out of 141).....	24.6	122
Innovation Output Sub-Index	19.8	123
Innovation Input Sub-Index	29.5	120
Innovation Efficiency Index	0.7	96
Global Innovation Index 2011 (out of 125)		120
GII 2012 rank among GII 2011 economies (125)		112

1	Institutions.....	51.2	80
1.1	Political environment	55.3	73
1.1.1	Political stability*.....	62.6	77
1.1.2	Government effectiveness*.....	25.7	104
1.1.3	Press freedom*.....	77.5	55 ●
1.2	Regulatory environment.....	70.3	54 ●
1.2.1	Regulatory quality*.....	49.1	77
1.2.2	Rule of law*.....	42.1	70
1.2.3	Cost of redundancy dismissal, salary weeks.....	10.5	42 ●
1.3	Business environment	28.0	114
1.3.1	Ease of starting a business*.....	31.6	95
1.3.2	Ease of resolving insolvency*.....	31.6	96
1.3.3	Ease of paying taxes*.....	20.8	111
2	Human capital & research.....	28.2	99
2.1	Education.....	39.8	109
2.1.1	Current expenditure on education, % GNI	4.3	64 ●
2.1.2	Public expenditure/pupil, % GDP/cap.....	34.5	5 ●
2.1.3	School life expectancy, years.....	6.4	132 ○
2.1.4	PISA scales in reading, maths, & science.....	n/a	n/a
2.1.5	Pupil-teacher ratio, secondary	26.5	113
2.2	Tertiary education	28.1	81
2.2.1	Tertiary enrolment, % gross.....	3.3	129
2.2.2	Graduates in science & engineering, %	23.3	35 ●
2.2.3	Tertiary inbound mobility, %.....	3.1	45 ●
2.2.4	Gross tertiary outbound enrolment, %	0.2	127
2.3	Research & development (R&D).....	16.6	96
2.3.1	Researchers, headcounts/mn pop.	69.5	105
2.3.2	Gross expenditure on R&D, % GDP.....	0.2	85
2.3.3	Quality of scientific research institutions†.....	44.9	62 ●
3	Infrastructure.....	15.3	140 ○
3.1	Information & communication technologies (ICT).....	15.8	119
3.1.1	ICT access*.....	17.6	128
3.1.2	ICT use*.....	0.5	137 ○
3.1.3	Government's online service*.....	29.4	120
3.1.4	E-participation*.....	15.8	78
3.2	General infrastructure	29.7	104
3.2.1	Electricity output, kWh/cap.....	n/a	n/a
3.2.2	Electricity consumption, kWh/cap.....	n/a	n/a
3.2.3	Quality of trade & transport infrastructure*.....	22.3	127
3.2.4	Gross capital formation, % GDP.....	18.1	112
3.3	Ecological sustainability	0.3	138 ○
3.3.1	GDP/unit of energy use, 2000 PPP\$/kg oil eq.....	n/a	n/a
3.3.2	Environmental performance*.....	n/a	n/a
3.3.3	ISO 14001 environmental certificates/bn PPP\$ GDP.....	0.0	130
4	Market sophistication	22.0	129
4.1	Credit	8.4	124
4.1.1	Ease of getting credit*.....	2.8	126 ○
4.1.2	Domestic credit to private sector, % GDP.....	17.6	124
4.1.3	Microfinance gross loans, % GDP.....	1.6	27 ●

4.2	Investment.....	6.5	119
4.2.1	Ease of protecting investors*.....	12.9	119
4.2.2	Market capitalization, % GDP.....	n/a	n/a
4.2.3	Total value of stocks traded, % GDP.....	n/a	n/a
4.2.4	Venture capital deals/tr PPP\$ GDP.....	0.0	65 ○
4.3	Trade & competition	51.2	120
4.3.1	Applied tariff rate, weighted mean, %.....	8.8	116
4.3.2	Non-agricultural mkt access weighted tariff, %.....	0.4	49 ●
4.3.3	Imports of goods & services, % GDP.....	26.8	119
4.3.4	Exports of goods & services, % GDP.....	11.5	137 ○
4.3.5	Intensity of local competition†.....	48.1	125
5	Business sophistication	30.7	119
5.1	Knowledge workers.....	26.2	124
5.1.1	Knowledge-intensive employment, %.....	n/a	n/a
5.1.2	Firms offering formal training, % firms.....	24.8	80
5.1.3	R&D performed by business, %.....	n/a	n/a
5.1.4	R&D financed by business, %	11.9	71
5.1.5	GMAT mean score.....	435.9	110
5.1.6	GMAT test takers/mn pop. 20–34.....	10.8	123
5.2	Innovation linkages	45.2	37 ●
5.2.1	University/industry research collaboration†.....	36.9	93
5.2.2	State of cluster development†.....	21.1	130 ○
5.2.3	R&D financed by abroad, %.....	59.6	1 ●
5.2.4	JV–strategic alliance deals/tr PPP\$ GDP.....	0.0	114 ○
5.2.5	PCT patent filings with foreign inventor, %.....	n/a	n/a
5.3	Knowledge absorption	20.8	139 ○
5.3.1	Royalty & license fees payments/th GDP.....	0.1	112
5.3.2	High-tech imports less re-imports, %.....	4.8	106
5.3.3	Computer & comm. service imports, %.....	18.1	106
5.3.4	FDI net inflows, % GDP.....	0.4	125
6	Knowledge & technology outputs	17.4	120
6.1	Knowledge creation.....	12.7	105
6.1.1	Domestic resident patent ap/bn PPP\$ GDP.....	0.1	107 ○
6.1.2	PCT resident patent ap/bn PPP\$ GDP.....	0.1	86
6.1.3	Domestic res utility model ap/bn PPP\$ GDP.....	0.1	53
6.1.4	Scientific & technical articles/bn PPP\$ GDP.....	2.7	75
6.2	Knowledge impact	18.6	124
6.2.1	Growth rate of PPP\$ GDP/worker, %.....	0.9	94
6.2.2	New businesses/th pop. 15–64.....	0.1	96
6.2.3	Computer software spending, % GDP.....	n/a	n/a
6.2.4	ISO 9001 quality certificates/bn PPP\$ GDP.....	0.7	120
6.3	Knowledge diffusion	20.9	102
6.3.1	Royalty & license fees receipts/th GDP.....	0.0	102
6.3.2	High-tech exports less re-exports, %.....	0.2	101
6.3.3	Computer & comm. service exports, %	25.6	72
6.3.4	FDI net outflows, % GDP.....	0.4	60
7	Creative outputs	22.1	114
7.1	Creative intangibles.....	41.4	66
7.1.1	Domestic res trademark reg/bn PPP\$ GDP.....	n/a	n/a
7.1.2	Madrid resident trademark reg/bn PPP\$ GDP.....	n/a	n/a
7.1.3	ICT & business model creation†.....	35.7	123
7.1.4	ICT & organizational model creation†.....	47.0	73
7.2	Creative goods & services	2.3	129
7.2.1	Recreation & culture consumption, %.....	n/a	n/a
7.2.2	National feature films/mn pop. 15–69.....	0.5	85
7.2.3	Paid-for dailies, circulation/th pop. 15–69.....	4.2	126
7.2.4	Creative goods exports, %.....	0.2	108
7.2.5	Creative services exports, %.....	0.8	77
7.3	Online creativity.....	3.6	135
7.3.1	Generic top-level domains (TLDs)/th pop. 15–69.....	0.0	140 ○
7.3.2	Country-code TLDs/th pop. 15–69.....	0.2	136 ○
7.3.3	Wikipedia monthly edits/mn pop. 15–69.....	n/a	n/a
7.3.4	Video uploads on YouTube/pop. 15–69.....	10.5	133

Key indicators

Population (millions)	8.4
GDP per capita, PPP\$	430.0
GDP (US\$ billions)	1.7

	Score (0–100) or value (hard data)	Rank
Global Innovation Index 2012 (out of 141).....	20.5	137
Innovation Output Sub-Index	15.8	135
Innovation Input Sub-Index	25.3	137
Innovation Efficiency Index	0.6	113
Global Innovation Index 2011 (out of 125)	n/a	
GII 2012 rank among GII 2011 economies (125)	n/a	

1	Institutions.....	35.0	129
1.1	Political environment	31.5	132
1.1.1	Political stability*.....	28.1	132
1.1.2	Government effectiveness*.....	12.3	134
1.1.3	Press freedom*.....	54.2	105
1.2	Regulatory environment.....	51.8	113
1.2.1	Regulatory quality*.....	22.9	133
1.2.2	Rule of law*.....	15.6	134
1.2.3	Cost of redundancy dismissal, salary weeks.....	15.9	74 ●
1.3	Business environment	21.6	124
1.3.1	Ease of starting a business*.....	41.0	83 ●
1.3.2	Ease of resolving insolvency*.....	0.0	139 ○
1.3.3	Ease of paying taxes*.....	23.7	107
2	Human capital & research.....	32.9	73 ●
2.1	Education.....	58.5	42 ●
2.1.1	Current expenditure on education, % GNI	8.7	3 ●
2.1.2	Public expenditure/pupil, % GDP/cap.....	34.1	6 ●
2.1.3	School life expectancy, years.....	11.3	100
2.1.4	PISA scales in reading, maths, & science.....	n/a	n/a
2.1.5	Pupil-teacher ratio, secondary	29.9	121
2.2	Tertiary education	17.9	111
2.2.1	Tertiary enrolment, % gross.....	3.2	130
2.2.2	Graduates in science & engineering, %	9.6	97
2.2.3	Tertiary inbound mobility, %.....	6.2	25 ●
2.2.4	Gross tertiary outbound enrolment, %	0.1	132
2.3	Research & development (R&D).....	22.4	68 ●
2.3.1	Researchers, headcounts/mn pop.	n/a	n/a
2.3.2	Gross expenditure on R&D, % GDP.....	n/a	n/a
2.3.3	Quality of scientific research institutions†.....	22.4	123
3	Infrastructure.....	15.1	141 ○
3.1	Information & communication technologies (ICT).....	7.5	141 ○
3.1.1	ICT access*.....	n/a	n/a
3.1.2	ICT use*	n/a	n/a
3.1.3	Government's online service*.....	15.0	137 ○
3.1.4	E-participation*.....	0.0	127 ○
3.2	General infrastructure	35.5	76 ●
3.2.1	Electricity output, kWh/cap.....	n/a	n/a
3.2.2	Electricity consumption, kWh/cap	n/a	n/a
3.2.3	Quality of trade & transport infrastructure*.....	37.5	72 ●
3.2.4	Gross capital formation, % GDP.....	16.4	124
3.3	Ecological sustainability	2.4	129
3.3.1	GDP/unit of energy use, 2000 PPP\$/kg oil eq.....	n/a	n/a
3.3.2	Environmental performance*.....	n/a	n/a
3.3.3	ISO 14001 environmental certificates/bn PPP\$ GDP	0.3	90
4	Market sophistication	21.1	132
4.1	Credit	4.1	132
4.1.1	Ease of getting credit*	2.8	126
4.1.2	Domestic credit to private sector, % GDP.....	25.5	103
4.1.3	Microfinance gross loans, % GDP	0.2	57

4.2	Investment.....	3.6	129
4.2.1	Ease of protecting investors*.....	7.1	123
4.2.2	Market capitalization, % GDP.....	n/a	n/a
4.2.3	Total value of stocks traded, % GDP.....	n/a	n/a
4.2.4	Venture capital deals/tr PPP\$ GDP.....	0.0	65 ○
4.3	Trade & competition	55.6	111
4.3.1	Applied tariff rate, weighted mean, %.....	5.5	85
4.3.2	Non-agricultural mkt access weighted tariff, %.....	1.1	78 ●
4.3.3	Imports of goods & services, % GDP	47.0	52 ●
4.3.4	Exports of goods & services, % GDP	10.7	140 ○
4.3.5	Intensity of local competition†	52.6	109
5	Business sophistication	22.3	139 ○
5.1	Knowledge workers.....	25.5	125
5.1.1	Knowledge-intensive employment, %.....	n/a	n/a
5.1.2	Firms offering formal training, % firms.....	22.1	85
5.1.3	R&D performed by business, %.....	n/a	n/a
5.1.4	R&D financed by business, %	n/a	n/a
5.1.5	GMAT mean score.....	410.6	123
5.1.6	GMAT test takers/mn pop. 20–34.....	12.1	122
5.2	Innovation linkages	15.4	137
5.2.1	University/industry research collaboration†	21.8	129
5.2.2	State of cluster development†	16.8	133 ○
5.2.3	R&D financed by abroad, %.....	n/a	n/a
5.2.4	JV–strategic alliance deals/tr PPP\$ GDP	0.0	114 ○
5.2.5	PCT patent filings with foreign inventor, %.....	n/a	n/a
5.3	Knowledge absorption	25.8	122
5.3.1	Royalty & license fees payments/th GDP.....	n/a	n/a
5.3.2	High-tech imports less re-imports, %	8.5	63 ●
5.3.3	Computer & comm. service imports, %.....	5.8	131 ○
5.3.4	FDI net inflows, % GDP.....	0.0	129
6	Knowledge & technology outputs	17.4	122
6.1	Knowledge creation.....	2.4	133
6.1.1	Domestic resident patent ap/bn PPP\$ GDP	n/a	n/a
6.1.2	PCT resident patent ap/bn PPP\$ GDP	n/a	n/a
6.1.3	Domestic res utility model ap/bn PPP\$ GDP.....	n/a	n/a
6.1.4	Scientific & technical articles/bn PPP\$ GDP.....	0.8	120
6.2	Knowledge impact	32.1	72 ●
6.2.1	Growth rate of PPP\$ GDP/worker, %.....	n/a	n/a
6.2.2	New businesses/th pop. 15–64.....	n/a	n/a
6.2.3	Computer software spending, % GDP.....	n/a	n/a
6.2.4	ISO 9001 quality certificates/bn PPP\$ GDP	3.1	80 ●
6.3	Knowledge diffusion	17.5	112
6.3.1	Royalty & license fees receipts/th GDP.....	n/a	n/a
6.3.2	High-tech exports less re-exports, %.....	0.5	89
6.3.3	Computer & comm. service exports, %	2.0	133 ○
6.3.4	FDI net outflows, % GDP	0.0	92
7	Creative outputs	14.2	133
7.1	Creative intangibles.....	24.2	128
7.1.1	Domestic res trademark reg/bn PPP\$ GDP.....	n/a	n/a
7.1.2	Madrid resident trademark reg/bn PPP\$ GDP.....	n/a	n/a
7.1.3	ICT & business model creation†	24.2	131 ○
7.1.4	ICT & organizational model creation†	24.1	130 ○
7.2	Creative goods & services	3.0	125
7.2.1	Recreation & culture consumption, %.....	n/a	n/a
7.2.2	National feature films/mn pop. 15–69.....	n/a	n/a
7.2.3	Paid-for dailies, circulation/th pop. 15–69.....	4.1	127
7.2.4	Creative goods exports, %.....	0.3	99
7.2.5	Creative services exports, %.....	n/a	n/a
7.3	Online creativity.....	5.3	124
7.3.1	Generic top-level domains (TLDs)/th pop. 15–69.....	0.2	127
7.3.2	Country-code TLDs/th pop. 15–69.....	2.7	110
7.3.3	Wikipedia monthly edits/mn pop. 15–69.....	n/a	n/a
7.3.4	Video uploads on YouTube/pop. 15–69	13.0	130

Cambodia

Key indicators

Population (millions)	14.4
GDP per capita, PPP\$	2,286.1
GDP (US\$ billions)	13.2

	Score (0–100) or value (hard data)	Rank
Global Innovation Index 2012 (out of 141).....	23.4	129
Innovation Output Sub-Index	17.3	132
Innovation Input Sub-Index	29.5	119
Innovation Efficiency Index	0.6	128
Global Innovation Index 2011 (out of 125)		111
GII 2012 rank among GII 2011 economies (125)		118

1	Institutions.....	40.7	113
1.1	Political environment	41.9	112
1.1.1	Political stability*.....	50.4	101
1.1.2	Government effectiveness*.....	19.3	122
1.1.3	Press freedom*.....	56.1	92
1.2	Regulatory environment.....	53.4	106
1.2.1	Regulatory quality*.....	39.7	106
1.2.2	Rule of law*.....	18.9	130
1.2.3	Cost of redundancy dismissal, salary weeks.....	19.4	86
1.3	Business environment	26.8	116
1.3.1	Ease of starting a business*.....	0.7	139 ○
1.3.2	Ease of resolving insolvency*.....	7.1	130
1.3.3	Ease of paying taxes*.....	72.6	39 ●
2	Human capital & research.....	16.6	134
2.1	Education.....	24.9	131
2.1.1	Current expenditure on education, % GNI	1.6	131
2.1.2	Public expenditure/pupil, % GDP/cap.....	6.1	117 ○
2.1.3	School life expectancy, years.....	10.5	112
2.1.4	PISA scales in reading, maths, & science.....	n/a	n/a
2.1.5	Pupil-teacher ratio, secondary	23.9	107
2.2	Tertiary education	11.8	121
2.2.1	Tertiary enrolment, % gross.....	10.0	106
2.2.2	Graduates in science & engineering, %	12.5	90
2.2.3	Tertiary inbound mobility, %.....	0.0	90 ○
2.2.4	Gross tertiary outbound enrolment, %	0.3	118
2.3	Research & development (R&D).....	13.2	117
2.3.1	Researchers, headcounts/mn pop.	57.9	109
2.3.2	Gross expenditure on R&D, % GDP.....	0.0	106
2.3.3	Quality of scientific research institutions†	38.5	85
3	Infrastructure.....	23.0	113
3.1	Information & communication technologies (ICT)	11.8	132
3.1.1	ICT access*.....	24.5	105
3.1.2	ICT use*.....	3.5	116
3.1.3	Government's online service*.....	19.0	134 ○
3.1.4	E-participation*.....	0.0	127 ○
3.2	General infrastructure	21.3	134
3.2.1	Electricity output, kWh/cap.....	85.2	121 ○
3.2.2	Electricity consumption, kWh/cap.....	123.5	117
3.2.3	Quality of trade & transport infrastructure*.....	28.0	109
3.2.4	Gross capital formation, % GDP.....	17.4	115
3.3	Ecological sustainability	36.0	57
3.3.1	GDP/unit of energy use, 2000 PPP\$/kg oil eq.....	8.8	21 ●
3.3.2	Environmental performance*.....	55.3	57
3.3.3	ISO 14001 environmental certificates/bn PPP\$ GDP	0.1	120
4	Market sophistication	35.5	83
4.1	Credit	44.8	33 ●
4.1.1	Ease of getting credit*.....	27.0	88
4.1.2	Domestic credit to private sector, % GDP.....	27.6	98
4.1.3	Microfinance gross loans, % GDP.....	12.4	1 ●

4.2	Investment.....	23.4	73
4.2.1	Ease of protecting investors*.....	46.7	60
4.2.2	Market capitalization, % GDP.....	n/a	n/a
4.2.3	Total value of stocks traded, % GDP.....	n/a	n/a
4.2.4	Venture capital deals/tr PPP\$ GDP.....	0.0	65 ○
4.3	Trade & competition	38.4	137 ○
4.3.1	Applied tariff rate, weighted mean, %.....	9.9	122
4.3.2	Non-agricultural mkt access weighted tariff, %.....	8.5	138 ○
4.3.3	Imports of goods & services, % GDP.....	59.5	37 ●
4.3.4	Exports of goods & services, % GDP.....	54.1	35 ●
4.3.5	Intensity of local competition†	59.6	84
5	Business sophistication	31.8	115
5.1	Knowledge workers.....	24.5	126
5.1.1	Knowledge-intensive employment, %.....	2.5	104 ○
5.1.2	Firms offering formal training, % firms.....	48.4	34 ●
5.1.3	R&D performed by business, %.....	12.1	72
5.1.4	R&D financed by business, %	n/a	n/a
5.1.5	GMAT mean score.....	404.1	127
5.1.6	GMAT test takers/mn pop. 20–34.....	6.6	130
5.2	Innovation linkages	44.3	38 ●
5.2.1	University/industry research collaboration†	38.7	85
5.2.2	State of cluster development†	48.9	37 ●
5.2.3	R&D financed by abroad, %.....	28.4	9 ●
5.2.4	JV–strategic alliance deals/tr PPP\$ GDP	32.5	46 ●
5.2.5	PCT patent filings with foreign inventor, %.....	n/a	n/a
5.3	Knowledge absorption	26.5	117
5.3.1	Royalty & license fees payments/th GDP.....	0.5	88
5.3.2	High-tech imports less re-imports, %	4.0	116 ○
5.3.3	Computer & comm. service imports, %.....	26.6	76
5.3.4	FDI net inflows, % GDP.....	7.0	27 ●
6	Knowledge & technology outputs	13.2	137 ○
6.1	Knowledge creation.....	2.9	131
6.1.1	Domestic resident patent ap/bn PPP\$ GDP	n/a	n/a
6.1.2	PCT resident patent ap/bn PPP\$ GDP	n/a	n/a
6.1.3	Domestic res utility model ap/bn PPP\$ GDP.....	n/a	n/a
6.1.4	Scientific & technical articles/bn PPP\$ GDP.....	1.0	116
6.2	Knowledge impact	19.9	121
6.2.1	Growth rate of PPP\$ GDP/worker, %.....	2.1	69
6.2.2	New businesses/th pop. 15–64.....	0.2	90
6.2.3	Computer software spending, % GDP.....	n/a	n/a
6.2.4	ISO 9001 quality certificates/bn PPP\$ GDP	0.2	132
6.3	Knowledge diffusion	16.8	116
6.3.1	Royalty & license fees receipts/th GDP.....	0.0	81
6.3.2	High-tech exports less re-exports, %.....	0.1	107
6.3.3	Computer & comm. service exports, %	13.2	110
6.3.4	FDI net outflows, % GDP	0.2	71
7	Creative outputs	21.3	118
7.1	Creative intangibles.....	35.0	92
7.1.1	Domestic res trademark reg/bn PPP\$ GDP.....	16.7	67
7.1.2	Madrid resident trademark reg/bn PPP\$ GDP.....	n/a	n/a
7.1.3	ICT & business model creation†	45.4	89
7.1.4	ICT & organizational model creation†	51.8	55
7.2	Creative goods & services	6.9	118
7.2.1	Recreation & culture consumption, %.....	n/a	n/a
7.2.2	National feature films/mn pop. 15–69.....	3.1	36
7.2.3	Paid-for dailies, circulation/th pop. 15–69.....	6.4	119
7.2.4	Creative goods exports, %.....	0.8	82
7.2.5	Creative services exports, %.....	0.1	105
7.3	Online creativity.....	8.2	117
7.3.1	Generic top-level domains (TLDs)/th pop. 15–69.....	0.3	123
7.3.2	Country-code TLDs/th pop. 15–69.....	2.2	114
7.3.3	Wikipedia monthly edits/mn pop. 15–69.....	107.1	106
7.3.4	Video uploads on YouTube/pop. 15–69.....	30.0	110

Key indicators

Population (millions)	20.9
GDP per capita, PPP\$	2,256.3
GDP (US\$ billions)	25.8

	Score (0–100) or value (hard data)	Rank
Global Innovation Index 2012 (out of 141).....	25.0	121
Innovation Output Sub-Index	21.7	111
Innovation Input Sub-Index	28.3	125
Innovation Efficiency Index	0.8	55 ●
Global Innovation Index 2011 (out of 125)		103
GII 2012 rank among GII 2011 economies (125)		111

1 Institutions.....	38.8	124
1.1 Political environment	46.2	97
1.1.1 Political stability*.....	51.4	99
1.1.2 Government effectiveness*.....	17.7	127
1.1.3 Press freedom*.....	69.6	76
1.2 Regulatory environment.....	57.3	98
1.2.1 Regulatory quality*.....	33.6	121
1.2.2 Rule of law*.....	20.1	126
1.2.3 Cost of redundancy dismissal, salary weeks.....	14.2	63 ●
1.3 Business environment	12.9	135 ○
1.3.1 Ease of starting a business*.....	23.7	107
1.3.2 Ease of resolving insolvency*.....	8.6	128
1.3.3 Ease of paying taxes*.....	6.4	131 ○

2 Human capital & research.....	27.8	100
2.1 Education.....	38.8	111
2.1.1 Current expenditure on education, % GNI	3.1	99
2.1.2 Public expenditure/pupil, % GDP/cap.....	12.8	96
2.1.3 School life expectancy, years.....	10.9	105
2.1.4 PISA scales in reading, maths, & science.....	n/a	n/a
2.1.5 Pupil-teacher ratio, secondary	16.2	76
2.2 Tertiary education	25.1	89
2.2.1 Tertiary enrolment, % gross.....	11.5	101
2.2.2 Graduates in science & engineering, %	21.0	49 ●
2.2.3 Tertiary inbound mobility, %.....	0.8	75
2.2.4 Gross tertiary outbound enrolment, %	1.0	74 ●
2.3 Research & development (R&D).....	19.5	80
2.3.1 Researchers, headcounts/mn pop.	243.2	82
2.3.2 Gross expenditure on R&D, % GDP.....	n/a	n/a
2.3.3 Quality of scientific research institutions†.....	37.3	92

3 Infrastructure.....	19.6	127
3.1 Information & communication technologies (ICT).....	12.7	130
3.1.1 ICT access*.....	16.4	132 ○
3.1.2 ICT use*	1.6	129 ○
3.1.3 Government's online service*.....	30.1	116
3.1.4 E-participation*.....	2.6	115
3.2 General infrastructure	21.7	133 ○
3.2.1 Electricity output, kWh/cap.....	288.1	109
3.2.2 Electricity consumption, kWh/cap.....	266.4	109
3.2.3 Quality of trade & transport infrastructure*.....	27.5	110
3.2.4 Gross capital formation, % GDP.....	17.7	114
3.3 Ecological sustainability	24.5	95
3.3.1 GDP/unit of energy use, 2000 PPP\$/kg oil eq.....	5.4	66 ●
3.3.2 Environmental performance*.....	43.0	107
3.3.3 ISO 14001 environmental certificates/bn PPP\$ GDP	0.1	118

4 Market sophistication	23.1	127
4.1 Credit	8.3	125
4.1.1 Ease of getting credit*	10.9	120
4.1.2 Domestic credit to private sector, % GDP.....	11.5	136 ○
4.1.3 Microfinance gross loans, % GDP.....	1.0	36 ●

4.2 Investment.....	11.2	109
4.2.1 Ease of protecting investors*.....	22.3	100
4.2.2 Market capitalization, % GDP.....	n/a	n/a
4.2.3 Total value of stocks traded, % GDP.....	n/a	n/a
4.2.4 Venture capital deals/tr PPP\$ GDP.....	0.0	65 ○
4.3 Trade & competition	50.0	125
4.3.1 Applied tariff rate, weighted mean, %.....	15.0	137 ○
4.3.2 Non-agricultural mkt access weighted tariff, %.....	0.1	22 ●
4.3.3 Imports of goods & services, % GDP.....	32.5	96
4.3.4 Exports of goods & services, % GDP.....	27.9	97
4.3.5 Intensity of local competition†	59.4	86

5 Business sophistication	32.2	109
5.1 Knowledge workers.....	35.3	104
5.1.1 Knowledge-intensive employment, %.....	n/a	n/a
5.1.2 Firms offering formal training, % firms.....	25.5	77
5.1.3 R&D performed by business, %.....	n/a	n/a
5.1.4 R&D financed by business, %	n/a	n/a
5.1.5 GMAT mean score.....	445.1	108
5.1.6 GMAT test takers/mn pop. 20–34.....	43.8	87
5.2 Innovation linkages	26.9	115
5.2.1 University/industry research collaboration†	39.1	83
5.2.2 State of cluster development†	28.3	116
5.2.3 R&D financed by abroad, %.....	n/a	n/a
5.2.4 JV-strategic alliance deals/tr PPP\$ GDP	0.0	114 ○
5.2.5 PCT patent filings with foreign inventor, %.....	n/a	n/a
5.3 Knowledge absorption	34.3	74 ●
5.3.1 Royalty & license fees payments/th GDP.....	0.5	90
5.3.2 High-tech imports less re-imports, %	n/a	n/a
5.3.3 Computer & comm. service imports, %.....	36.5	47 ●
5.3.4 FDI net inflows, % GDP.....	0.0	130

6 Knowledge & technology outputs.....	21.5	100
6.1 Knowledge creation.....	18.7	80
6.1.1 Domestic resident patent ap/bn PPP\$ GDP	0.6	77
6.1.2 PCT resident patent ap/bn PPP\$ GDP	0.1	83
6.1.3 Domestic res utility model ap/bn PPP\$ GDP.....	n/a	n/a
6.1.4 Scientific & technical articles/bn PPP\$ GDP.....	3.4	69 ●
6.2 Knowledge impact	17.1	126
6.2.1 Growth rate of PPP\$ GDP/worker, %.....	0.0	104
6.2.2 New businesses/th pop. 15–64.....	n/a	n/a
6.2.3 Computer software spending, % GDP.....	0.1	66
6.2.4 ISO 9001 quality certificates/bn PPP\$ GDP	0.5	127
6.3 Knowledge diffusion	28.6	59 ●
6.3.1 Royalty & license fees receipts/th GDP.....	0.0	90
6.3.2 High-tech exports less re-exports, %.....	n/a	n/a
6.3.3 Computer & comm. service exports, %	28.1	66 ●
6.3.4 FDI net outflows, % GDP	-0.2	109

7 Creative outputs	21.9	115
7.1 Creative intangibles.....	39.3	75
7.1.1 Domestic res trademark reg/bn PPP\$ GDP.....	n/a	n/a
7.1.2 Madrid resident trademark reg/bn PPP\$ GDP.....	n/a	n/a
7.1.3 ICT & business model creation†	40.0	116
7.1.4 ICT & organizational model creation†	38.7	101
7.2 Creative goods & services	5.6	120
7.2.1 Recreation & culture consumption, %.....	1.7	85
7.2.2 National feature films/mn pop. 15–69.....	1.8	52 ●
7.2.3 Paid-for dailies, circulation/th pop. 15–69.....	6.8	118
7.2.4 Creative goods exports, %.....	0.0	126 ○
7.2.5 Creative services exports, %.....	1.5	64
7.3 Online creativity.....	3.6	134 ○
7.3.1 Generic top-level domains (TLDs)/th pop. 15–69.....	0.1	132 ○
7.3.2 Country-code TLDs/th pop. 15–69.....	0.8	128
7.3.3 Wikipedia monthly edits/mn pop. 15–69.....	37.0	110
7.3.4 Video uploads on YouTube/pop. 15–69.....	13.2	129 ○

Canada

Key indicators

Population (millions)	34.4
GDP per capita, PPP\$	40,457.6
GDP (US\$ billions)	1,758.7

	Score (0–100) or value (hard data)	Rank
Global Innovation Index 2012 (out of 141).....	56.9	12
Innovation Output Sub-Index	48.0	20
Innovation Input Sub-Index	65.8	10
Innovation Efficiency Index	0.7	74 ○
Global Innovation Index 2011 (out of 125)		8
GII 2012 rank among GII 2011 economies (125)		12

1	Institutions.....	95.0	2 ●
1.1	Political environment	91.7	9
1.1.1	Political stability*.....	88.1	18
1.1.2	Government effectiveness*.....	90.0	8
1.1.3	Press freedom*.....	97.1	9
1.2	Regulatory environment.....	95.5	11
1.2.1	Regulatory quality*.....	94.6	9
1.2.2	Rule of law*.....	95.2	9
1.2.3	Cost of redundancy dismissal, salary weeks.....	10.0	36
1.3	Business environment	97.8	2 ●
1.3.1	Ease of starting a business*.....	98.5	3 ●
1.3.2	Ease of resolving insolvency*.....	98.5	3 ●
1.3.3	Ease of paying taxes*.....	96.4	6 ●

2	Human capital & research.....	53.2	25
2.1	Education.....	64.7	17
2.1.1	Current expenditure on education, % GNI	4.7	49
2.1.2	Public expenditure/pupil, % GDP/cap.....	23.5	40
2.1.3	School life expectancy, years.....	15.1	33
2.1.4	PISA scales in reading, maths, & science.....	526.6	7
2.1.5	Pupil-teacher ratio, secondary	7.1	4 ●
2.2	Tertiary education	43.4	40
2.2.1	Tertiary enrolment, % gross.....	62.3	27
2.2.2	Graduates in science & engineering, %	21.1	46
2.2.3	Tertiary inbound mobility, %.....	4.9	29
2.2.4	Gross tertiary outbound enrolment, %	2.0	47
2.3	Research & development (R&D).....	51.4	20
2.3.1	Researchers, headcounts/mn pop.	4,260.4	21
2.3.2	Gross expenditure on R&D, % GDP.....	2.0	16
2.3.3	Quality of scientific research institutions†	76.8	9

3	Infrastructure.....	55.2	15
3.1	Information & communication technologies (ICT).....	70.1	16
3.1.1	ICT access*.....	74.3	20
3.1.2	ICT use*.....	48.7	27
3.1.3	Government's online service*.....	88.9	6 ●
3.1.4	E-participation*.....	68.4	15
3.2	General infrastructure	67.0	4 ●
3.2.1	Electricity output, kWh/cap.....	17,557.4	4 ●
3.2.2	Electricity consumption, kWh/cap.....	15,449.3	9
3.2.3	Quality of trade & transport infrastructure*.....	75.8	10
3.2.4	Gross capital formation, % GDP.....	22.2	73 ○
3.3	Ecological sustainability	28.5	77 ○
3.3.1	GDP/unit of energy use, 2000 PPP\$/kg oil eq.....	4.1	87 ○
3.3.2	Environmental performance*.....	58.4	36
3.3.3	ISO 14001 environmental certificates/bn PPP\$ GDP.....	0.8	67 ○

4	Market sophistication	68.4	7
4.1	Credit	60.6	17
4.1.1	Ease of getting credit*.....	77.4	21
4.1.2	Domestic credit to private sector, % GDP.....	128.2	18
4.1.3	Microfinance gross loans, % GDP.....	n/a	n/a

4.2	Investment.....	72.9	6 ●
4.2.1	Ease of protecting investors*.....	94.2	5
4.2.2	Market capitalization, % GDP.....	137.2	10
4.2.3	Total value of stocks traded, % GDP.....	86.8	10
4.2.4	Venture capital deals/tr PPP\$ GDP.....	225.7	6 ●

4.3	Trade & competition	71.8	20
4.3.1	Applied tariff rate, weighted mean, %.....	1.0	6 ●
4.3.2	Non-agricultural mkt access weighted tariff, %.....	0.2	29
4.3.3	Imports of goods & services, % GDP.....	31.3	101 ○
4.3.4	Exports of goods & services, % GDP.....	29.4	91 ○
4.3.5	Intensity of local competition†	76.3	19

5	Business sophistication	57.4	14
5.1	Knowledge workers.....	76.6	14
5.1.1	Knowledge-intensive employment, %.....	42.4	13
5.1.2	Firms offering formal training, % firms.....	n/a	n/a
5.1.3	R&D performed by business, %.....	54.1	29
5.1.4	R&D financed by business, %	47.5	26
5.1.5	GMAT mean score.....	557.6	33
5.1.6	GMAT test takers/mn pop. 20–34.....	1,053.2	6 ●

5.2	Innovation linkages	51.4	20
5.2.1	University/industry research collaboration†	70.0	11
5.2.2	State of cluster development†	58.8	20
5.2.3	R&D financed by abroad, %.....	9.3	34
5.2.4	JV–strategic alliance deals/tr PPP\$ GDP	125.9	9
5.2.5	PCT patent filings with foreign inventor, %.....	43.2	55 ○

5.3	Knowledge absorption	44.3	34
5.3.1	Royalty & license fees payments/th GDP.....	5.5	12
5.3.2	High-tech imports less re-imports, %	12.6	31
5.3.3	Computer & comm. service imports, %.....	35.3	52
5.3.4	FDI net inflows, % GDP.....	1.5	93 ○

6	Knowledge & technology outputs	46.4	22
6.1	Knowledge creation.....	56.5	16
6.1.1	Domestic resident patent ap/bn PPP\$ GDP	3.4	42
6.1.2	PCT resident patent ap/bn PPP\$ GDP	2.1	22
6.1.3	Domestic res utility model ap/bn PPP\$ GDP.....	n/a	n/a
6.1.4	Scientific & technical articles/bn PPP\$ GDP.....	22.7	7

6.2	Knowledge impact	42.8	38
6.2.1	Growth rate of PPP\$ GDP/worker, %.....	1.3	91 ○
6.2.2	New businesses/th pop. 15–64.....	7.6	9
6.2.3	Computer software spending, % GDP.....	0.6	17
6.2.4	ISO 9001 quality certificates/bn PPP\$ GDP	5.7	65 ○

6.3	Knowledge diffusion	39.9	32
6.3.1	Royalty & license fees receipts/th GDP.....	2.4	20
6.3.2	High-tech exports less re-exports, %.....	6.5	32
6.3.3	Computer & comm. service exports, %	49.5	24
6.3.4	FDI net outflows, % GDP	2.5	21

7	Creative outputs	49.7	16
7.1	Creative intangibles.....	46.1	41
7.1.1	Domestic res trademark reg/bn PPP\$ GDP.....	30.2	49 ○
7.1.2	Madrid resident trademark reg/bn PPP\$ GDP.....	n/a	n/a
7.1.3	ICT & business model creation†	70.9	11
7.1.4	ICT & organizational model creation†	53.3	50

7.2	Creative goods & services	45.6	12
7.2.1	Recreation & culture consumption, %.....	9.3	17
7.2.2	National feature films/mn pop. 15–69.....	3.3	35
7.2.3	Paid-for dailies, circulation/th pop. 15–69.....	165.9	32
7.2.4	Creative goods exports, %.....	1.8	49
7.2.5	Creative services exports, %.....	19.4	6

7.3	Online creativity.....	61.0	17
7.3.1	Generic top-level domains (TLDs)/th pop. 15–69.....	66.6	14
7.3.2	Country-code TLDs/th pop. 15–69.....	60.3	21
7.3.3	Wikipedia monthly edits/mn pop. 15–69.....	7,570.4	19
7.3.4	Video uploads on YouTube/pop. 15–69.....	78.6	6 ●

Key indicators

Population (millions)	17.4
GDP per capita, PPP\$	16,171.9
GDP (US\$ billions)	243.0

	Score (0–100) or value (hard data)	Rank
Global Innovation Index 2012 (out of 141).....	42.7	39
Innovation Output Sub-Index	38.5	34
Innovation Input Sub-Index	46.8	43
Innovation Efficiency Index	0.8	37
Global Innovation Index 2011 (out of 125)	38	38
GII 2012 rank among GII 2011 economies (125)	38	
1 Institutions.....	73.1	29
1.1 Political environment	75.2	34
1.1.1 Political stability*.....	80.0	37
1.1.2 Government effectiveness*.....	72.0	26 ●
1.1.3 Press freedom*.....	73.6	63
1.2 Regulatory environment.....	84.4	25 ●
1.2.1 Regulatory quality*.....	88.3	18 ●
1.2.2 Rule of law*.....	81.9	23 ●
1.2.3 Cost of redundancy dismissal, salary weeks.....	16.3	76
1.3 Business environment	59.7	44
1.3.1 Ease of starting a business*.....	65.4	49
1.3.2 Ease of resolving insolvency*.....	38.1	87
1.3.3 Ease of paying taxes*.....	75.5	34
2 Human capital & research.....	32.8	75
2.1 Education.....	47.6	83
2.1.1 Current expenditure on education, % GNI	4.6	52
2.1.2 Public expenditure/pupil, % GDP/cap.....	17.4	78 ○
2.1.3 School life expectancy, years.....	14.7	39
2.1.4 PISA scales in reading, maths, & science.....	439.3	43
2.1.5 Pupil-teacher ratio, secondary	22.4	103 ○
2.2 Tertiary education	29.6	77
2.2.1 Tertiary enrolment, % gross.....	59.2	35
2.2.2 Graduates in science & engineering, %	20.4	55
2.2.3 Tertiary inbound mobility, %.....	0.0	90 ○
2.2.4 Gross tertiary outbound enrolment, %	0.5	92
2.3 Research & development (R&D).....	21.3	72
2.3.1 Researchers, headcounts/mn pop.	630.0	69
2.3.2 Gross expenditure on R&D, % GDP.....	0.4	66
2.3.3 Quality of scientific research institutions†.....	50.5	48
3 Infrastructure.....	42.7	44
3.1 Information & communication technologies (ICT).....	53.9	33
3.1.1 ICT access*.....	51.7	54
3.1.2 ICT use*	23.1	55
3.1.3 Government's online service*.....	75.2	24 ●
3.1.4 E-participation*.....	65.8	19 ●
3.2 General infrastructure	35.8	74
3.2.1 Electricity output, kWh/cap.....	3,633.1	55
3.2.2 Electricity consumption, kWh/cap.....	3,288.2	53
3.2.3 Quality of trade & transport infrastructure*.....	46.5	49
3.2.4 Gross capital formation, % GDP.....	21.4	79
3.3 Ecological sustainability	38.4	49
3.3.1 GDP/unit of energy use, 2000 PPP\$/kg oil eq.....	6.8	40
3.3.2 Environmental performance*.....	55.3	56
3.3.3 ISO 14001 environmental certificates/bn PPP\$ GDP	2.8	34
4 Market sophistication	44.0	50
4.1 Credit	25.6	85
4.1.1 Ease of getting credit*	38.7	72
4.1.2 Domestic credit to private sector, % GDP.....	86.3	40
4.1.3 Microfinance gross loans, % GDP.....	0.8	41

4.2 Investment.....	38.3	34
4.2.1 Ease of protecting investors*.....	76.2	27
4.2.2 Market capitalization, % GDP.....	167.9	6 ●
4.2.3 Total value of stocks traded, % GDP.....	26.7	33
4.2.4 Venture capital deals/tr PPP\$ GDP.....	0.0	65 ○
4.3 Trade & competition	68.1	39
4.3.1 Applied tariff rate, weighted mean, %.....	4.0	69
4.3.2 Non-agricultural mkt access weighted tariff, %.....	0.3	39
4.3.3 Imports of goods & services, % GDP.....	31.8	99 ○
4.3.4 Exports of goods & services, % GDP.....	38.7	68
4.3.5 Intensity of local competition†	72.7	34
5 Business sophistication	41.5	57
5.1 Knowledge workers.....	61.4	37
5.1.1 Knowledge-intensive employment, %.....	30.6	40
5.1.2 Firms offering formal training, % firms.....	57.5	16 ●
5.1.3 R&D performed by business, %.....	40.4	42
5.1.4 R&D financed by business, %	43.7	36
5.1.5 GMAT mean score.....	556.6	34
5.1.6 GMAT test takers/mn pop. 20–34.....	105.8	50
5.2 Innovation linkages	31.1	96 ○
5.2.1 University/industry research collaboration†	51.5	41
5.2.2 State of cluster development†	51.6	33
5.2.3 R&D financed by abroad, %.....	3.3	68 ○
5.2.4 JV–strategic alliance deals/tr PPP\$ GDP	40.5	33
5.2.5 PCT patent filings with foreign inventor, %.....	8.0	97 ○
5.3 Knowledge absorption	32.0	88
5.3.1 Royalty & license fees payments/th GDP.....	2.4	37
5.3.2 High-tech imports less re-imports, %	8.9	59
5.3.3 Computer & comm. service imports, %.....	19.4	101 ○
5.3.4 FDI net inflows, % GDP.....	7.1	24 ●
6 Knowledge & technology outputs	27.9	62
6.1 Knowledge creation.....	23.9	63
6.1.1 Domestic resident patent ap/bn PPP\$ GDP	1.3	63
6.1.2 PCT resident patent ap/bn PPP\$ GDP	0.4	42
6.1.3 Domestic res utility model ap/bn PPP\$ GDP.....	0.2	48 ○
6.1.4 Scientific & technical articles/bn PPP\$ GDP.....	7.7	43
6.2 Knowledge impact	37.6	51
6.2.1 Growth rate of PPP\$ GDP/worker, %.....	4.0	33
6.2.2 New businesses/th pop. 15–64.....	2.1	45
6.2.3 Computer software spending, % GDP.....	0.1	47
6.2.4 ISO 9001 quality certificates/bn PPP\$ GDP	18.1	27
6.3 Knowledge diffusion	22.2	90
6.3.1 Royalty & license fees receipts/th GDP.....	0.3	54
6.3.2 High-tech exports less re-exports, %.....	0.7	80
6.3.3 Computer & comm. service exports, %	22.0	87
6.3.4 FDI net outflows, % GDP	4.1	14 ●
7 Creative outputs	49.1	18 ●
7.1 Creative intangibles.....	73.2	2 ●
7.1.1 Domestic res trademark reg/bn PPP\$ GDP.....	207.2	3 ●
7.1.2 Madrid resident trademark reg/bn PPP\$ GDP.....	n/a	n/a
7.1.3 ICT & business model creation†	62.6	34
7.1.4 ICT & organizational model creation†	59.3	28
7.2 Creative goods & services	14.9	84
7.2.1 Recreation & culture consumption, %.....	6.0	45
7.2.2 National feature films/mn pop. 15–69.....	1.2	64
7.2.3 Paid-for dailies, circulation/th pop. 15–69.....	47.9	83
7.2.4 Creative goods exports, %.....	0.5	87
7.2.5 Creative services exports, %.....	0.8	76 ○
7.3 Online creativity.....	35.0	40
7.3.1 Generic top-level domains (TLDs)/th pop. 15–69.....	9.3	48
7.3.2 Country-code TLDs/th pop. 15–69.....	48.0	39
7.3.3 Wikipedia monthly edits/mn pop. 15–69.....	3,337.0	38
7.3.4 Video uploads on YouTube/pop. 15–69.....	65.5	35

Key indicators

Population (millions)	1,348.1
GDP per capita, PPP\$	8,394.1
GDP (US\$ billions)	6,988.5

	Score (0–100) or value (hard data)	Rank
Global Innovation Index 2012 (out of 141).....	45.4	34
Innovation Output Sub-Index	48.1	19
Innovation Input Sub-Index	42.7	55
Innovation Efficiency Index	1.1	1 ●
Global Innovation Index 2011 (out of 125)	29	
GII 2012 rank among GII 2011 economies (125)	33	

1	Institutions.....	39.1	121
1.1	Political environment	30.8	133 ○
1.1.1	Political stability*.....	46.8	105
1.1.2	Government effectiveness*.....	44.2	59
1.1.3	Press freedom*.....	1.4	138 ○
1.2	Regulatory environment.....	51.9	112
1.2.1	Regulatory quality*.....	45.9	88
1.2.2	Rule of law*.....	38.6	76
1.2.3	Cost of redundancy dismissal, salary weeks.....	27.4	117
1.3	Business environment	34.7	99
1.3.1	Ease of starting a business*.....	10.7	124 ○
1.3.2	Ease of resolving insolvency*.....	55.3	63
1.3.3	Ease of paying taxes*.....	38.1	87
2	Human capital & research.....	31.4	84
2.1	Education.....	52.2	67
2.1.1	Current expenditure on education, % GNI	1.8	128 ○
2.1.2	Public expenditure/pupil, % GDP/cap.....	n/a	n/a
2.1.3	School life expectancy, years.....	11.7	93
2.1.4	PISA scales in reading, maths, & science.....	576.8	1 ●
2.1.5	Pupil-teacher ratio, secondary	15.5	72
2.2	Tertiary education	9.5	125 ○
2.2.1	Tertiary enrolment, % gross.....	25.9	78
2.2.2	Graduates in science & engineering, %	n/a	n/a
2.2.3	Tertiary inbound mobility, %.....	0.0	90 ○
2.2.4	Gross tertiary outbound enrolment, %	0.4	102
2.3	Research & development (R&D).....	32.4	39
2.3.1	Researchers, headcounts/mn pop.	1,070.9	53
2.3.2	Gross expenditure on R&D, % GDP.....	1.5	25
2.3.3	Quality of scientific research institutions†.....	55.2	36
3	Infrastructure.....	44.3	39
3.1	Information & communication technologies (ICT).....	32.5	73
3.1.1	ICT access*.....	38.6	80
3.1.2	ICT use*.....	17.3	68
3.1.3	Government's online service*.....	52.9	59
3.1.4	E-participation*.....	21.1	63
3.2	General infrastructure	58.8	10
3.2.1	Electricity output, kWh/cap.....	2,769.0	62
3.2.2	Electricity consumption, kWh/cap.....	2,631.2	62
3.2.3	Quality of trade & transport infrastructure*.....	63.5	25
3.2.4	Gross capital formation, % GDP.....	47.8	1 ●
3.3	Ecological sustainability	41.6	37
3.3.1	GDP/unit of energy use, 2000 PPP\$/kg oil eq.....	5.4	67
3.3.2	Environmental performance*.....	42.2	111 ○
3.3.3	ISO 14001 environmental certificates/bn PPP\$ GDP.....	6.9	15
4	Market sophistication	47.8	35
4.1	Credit	32.6	62
4.1.1	Ease of getting credit*.....	50.4	62
4.1.2	Domestic credit to private sector, % GDP.....	130.0	17
4.1.3	Microfinance gross loans, % GDP.....	0.2	58

4.2	Investment.....	52.8	16
4.2.1	Ease of protecting investors*.....	35.9	76
4.2.2	Market capitalization, % GDP.....	81.0	26
4.2.3	Total value of stocks traded, % GDP.....	136.6	5 ●
4.2.4	Venture capital deals/tr PPP\$ GDP.....	32.3	35
4.3	Trade & competition	58.0	94
4.3.1	Applied tariff rate, weighted mean, %.....	4.3	73
4.3.2	Non-agricultural mkt access weighted tariff, %.....	2.6	125 ○
4.3.3	Imports of goods & services, % GDP.....	25.7	123 ○
4.3.4	Exports of goods & services, % GDP.....	29.6	89
4.3.5	Intensity of local competition†.....	75.8	20
5	Business sophistication	50.9	28
5.1	Knowledge workers.....	69.1	27
5.1.1	Knowledge-intensive employment, %.....	7.4	98 ○
5.1.2	Firms offering formal training, % firms.....	84.8	1 ●
5.1.3	R&D performed by business, %.....	73.3	7
5.1.4	R&D financed by business, %	71.7	6
5.1.5	GMAT mean score.....	595.0	5 ●
5.1.6	GMAT test takers/mn pop. 20–34.....	128.1	43
5.2	Innovation linkages	34.4	73
5.2.1	University/industry research collaboration†.....	58.8	28
5.2.2	State of cluster development†.....	64.4	6 ●
5.2.3	R&D financed by abroad, %.....	1.2	79
5.2.4	JV–strategic alliance deals/tr PPP\$ GDP.....	34.4	43
5.2.5	PCT patent filings with foreign inventor, %.....	6.7	98 ○
5.3	Knowledge absorption	49.1	20
5.3.1	Royalty & license fees payments/th GDP.....	2.2	44
5.3.2	High-tech imports less re-imports, %	25.6	4 ●
5.3.3	Computer & comm. service imports, %.....	35.3	51
5.3.4	FDI net inflows, % GDP.....	3.1	58
6	Knowledge & technology outputs	61.8	5 ●
6.1	Knowledge creation.....	76.1	4 ●
6.1.1	Domestic resident patent ap/bn PPP\$ GDP.....	29.0	1 ●
6.1.2	PCT resident patent ap/bn PPP\$ GDP.....	1.4	27
6.1.3	Domestic res utility model ap/bn PPP\$ GDP.....	40.2	1 ●
6.1.4	Scientific & technical articles/bn PPP\$ GDP.....	8.2	40
6.2	Knowledge impact	60.4	6 ●
6.2.1	Growth rate of PPP\$ GDP/worker, %.....	9.1	3 ●
6.2.2	New businesses/th pop. 15–64.....	n/a	n/a
6.2.3	Computer software spending, % GDP.....	0.3	32
6.2.4	ISO 9001 quality certificates/bn PPP\$ GDP.....	29.4	15
6.3	Knowledge diffusion	48.9	23
6.3.1	Royalty & license fees receipts/th GDP.....	0.1	68
6.3.2	High-tech exports less re-exports, %.....	30.1	4 ●
6.3.3	Computer & comm. service exports, %	49.2	25
6.3.4	FDI net outflows, % GDP.....	1.0	40
7	Creative outputs	34.4	56
7.1	Creative intangibles.....	47.3	38
7.1.1	Domestic res trademark reg/bn PPP\$ GDP.....	119.7	5
7.1.2	Madrid resident trademark reg/bn PPP\$ GDP.....	0.2	48
7.1.3	ICT & business model creation†.....	62.9	32
7.1.4	ICT & organizational model creation†.....	66.2	15
7.2	Creative goods & services	35.3	33
7.2.1	Recreation & culture consumption, %.....	5.3	47
7.2.2	National feature films/mn pop. 15–69.....	0.5	83
7.2.3	Paid-for dailies, circulation/th pop. 15–69.....	109.0	52
7.2.4	Creative goods exports, %.....	6.2	8
7.2.5	Creative services exports, %.....	1.8	62
7.3	Online creativity.....	7.7	120
7.3.1	Generic top-level domains (TLDs)/th pop. 15–69.....	1.9	87
7.3.2	Country-code TLDs/th pop. 15–69.....	21.1	73
7.3.3	Wikipedia monthly edits/mn pop. 15–69.....	35.7	111 ○
7.3.4	Video uploads on YouTube/pop. 15–69.....	n/a	n/a

Key indicators

Population (millions)	46.1
GDP per capita, PPP\$	10,155.3
GDP (US\$ billions)	321.5

	Score (0–100) or value (hard data)	Rank
Global Innovation Index 2012 (out of 141).....	35.5	65
Innovation Output Sub-Index	28.7	72
Innovation Input Sub-Index	42.3	58
Innovation Efficiency Index	0.7	92
Global Innovation Index 2011 (out of 125)	71	
GII 2012 rank among GII 2011 economies (125)	63	

1	Institutions.....	55.3	73
1.1	Political environment	40.8	116
1.1.1	Political stability*.....	29.2	130 ○
1.1.2	Government effectiveness*.....	44.7	57
1.1.3	Press freedom*.....	48.3	117 ○
1.2	Regulatory environment.....	66.0	71
1.2.1	Regulatory quality*.....	59.5	59
1.2.2	Rule of law*.....	38.9	75
1.2.3	Cost of redundancy dismissal, salary weeks.....	16.7	77
1.3	Business environment	59.2	49
1.3.1	Ease of starting a business*.....	59.7	57
1.3.2	Ease of resolving insolvency*.....	81.2	27
1.3.3	Ease of paying taxes*.....	36.6	88
2	Human capital & research.....	30.4	87
2.1	Education.....	39.3	110
2.1.1	Current expenditure on education, % GNI	3.9	81
2.1.2	Public expenditure/pupil, % GDP/cap.....	16.9	80
2.1.3	School life expectancy, years.....	13.6	57
2.1.4	PISA scales in reading, maths, & science.....	398.6	58 ○
2.1.5	Pupil-teacher ratio, secondary	27.1	115 ○
2.2	Tertiary education	35.3	59
2.2.1	Tertiary enrolment, % gross.....	39.1	60
2.2.2	Graduates in science & engineering, %	23.2	36
2.2.3	Tertiary inbound mobility, %.....	n/a	n/a
2.2.4	Gross tertiary outbound enrolment, %	0.5	97
2.3	Research & development (R&D).....	16.6	95
2.3.1	Researchers, headcounts/mn pop.	332.9	78
2.3.2	Gross expenditure on R&D, % GDP.....	0.2	90
2.3.3	Quality of scientific research institutions†.....	44.2	66
3	Infrastructure.....	46.3	34
3.1	Information & communication technologies (ICT).....	53.6	34
3.1.1	ICT access*.....	39.1	78
3.1.2	ICT use*	17.1	69
3.1.3	Government's online service*.....	84.3	16 ●
3.1.4	E-participation*.....	73.7	11 ●
3.2	General infrastructure	31.5	94
3.2.1	Electricity output, kWh/cap.....	1,273.2	86
3.2.2	Electricity consumption, kWh/cap.....	1,046.9	90
3.2.3	Quality of trade & transport infrastructure*.....	39.8	62
3.2.4	Gross capital formation, % GDP.....	23.8	51
3.3	Ecological sustainability	54.0	15 ●
3.3.1	GDP/unit of energy use, 2000 PPP\$/kg oil eq.....	13.2	2 ●
3.3.2	Environmental performance*.....	62.3	27
3.3.3	ISO 14001 environmental certificates/bn PPP\$ GDP.....	2.4	39
4	Market sophistication	40.3	62
4.1	Credit	27.3	79
4.1.1	Ease of getting credit*	50.4	62
4.1.2	Domestic credit to private sector, % GDP.....	43.5	78
4.1.3	Microfinance gross loans, % GDP.....	1.5	28

4.2	Investment.....	38.5	33
4.2.1	Ease of protecting investors*.....	94.2	5 ●
4.2.2	Market capitalization, % GDP.....	72.3	33
4.2.3	Total value of stocks traded, % GDP.....	8.0	51
4.2.4	Venture capital deals/tr PPP\$ GDP.....	4.3	57
4.3	Trade & competition	55.0	113
4.3.1	Applied tariff rate, weighted mean, %.....	8.9	117 ○
4.3.2	Non-agricultural mkt access weighted tariff, %.....	0.0	18 ●
4.3.3	Imports of goods & services, % GDP.....	18.0	137 ○
4.3.4	Exports of goods & services, % GDP.....	15.8	129 ○
4.3.5	Intensity of local competition†	60.1	81
5	Business sophistication	39.0	68
5.1	Knowledge workers.....	49.0	59
5.1.1	Knowledge-intensive employment, %.....	21.6	62
5.1.2	Firms offering formal training, % firms.....	65.2	8 ●
5.1.3	R&D performed by business, %.....	19.7	66
5.1.4	R&D financed by business, %	16.1	67
5.1.5	GMAT mean score.....	509.0	68
5.1.6	GMAT test takers/mn pop. 20–34.....	69.3	64
5.2	Innovation linkages	28.4	106
5.2.1	University/industry research collaboration†	51.6	40
5.2.2	State of cluster development†	48.7	38
5.2.3	R&D financed by abroad, %.....	4.3	63
5.2.4	JV–strategic alliance deals/tr PPP\$ GDP	15.0	74
5.2.5	PCT patent filings with foreign inventor, %.....	3.2	102 ○
5.3	Knowledge absorption	39.5	55
5.3.1	Royalty & license fees payments/th GDP.....	1.3	65
5.3.2	High-tech imports less re-imports, %	17.5	13 ●
5.3.3	Computer & comm. service imports, %.....	33.3	64
5.3.4	FDI net inflows, % GDP.....	2.3	69
6	Knowledge & technology outputs	23.1	87
6.1	Knowledge creation.....	14.8	97
6.1.1	Domestic resident patent ap/bn PPP\$ GDP	0.3	91 ○
6.1.2	PCT resident patent ap/bn PPP\$ GDP	0.1	64
6.1.3	Domestic res utility model ap/bn PPP\$ GDP.....	0.4	39
6.1.4	Scientific & technical articles/bn PPP\$ GDP.....	1.5	98
6.2	Knowledge impact	32.9	70
6.2.1	Growth rate of PPP\$ GDP/worker, %.....	2.8	55
6.2.2	New businesses/th pop. 15–64.....	1.1	61
6.2.3	Computer software spending, % GDP.....	0.1	63 ○
6.2.4	ISO 9001 quality certificates/bn PPP\$ GDP	18.9	26 ●
6.3	Knowledge diffusion	21.5	95
6.3.1	Royalty & license fees receipts/th GDP.....	0.2	59
6.3.2	High-tech exports less re-exports, %.....	0.8	77
6.3.3	Computer & comm. service exports, %	22.7	83
6.3.4	FDI net outflows, % GDP	2.3	23 ●
7	Creative outputs	34.4	58
7.1	Creative intangibles.....	42.5	60
7.1.1	Domestic res trademark reg/bn PPP\$ GDP.....	28.7	52
7.1.2	Madrid resident trademark reg/bn PPP\$ GDP.....	n/a	n/a
7.1.3	ICT & business model creation†	59.9	38
7.1.4	ICT & organizational model creation†	53.9	46
7.2	Creative goods & services	22.0	67
7.2.1	Recreation & culture consumption, %.....	4.9	56
7.2.2	National feature films/mn pop. 15–69.....	0.6	79
7.2.3	Paid-for dailies, circulation/th pop. 15–69.....	39.0	90
7.2.4	Creative goods exports, %.....	1.1	66
7.2.5	Creative services exports, %.....	9.7	20 ●
7.3	Online creativity.....	30.7	46
7.3.1	Generic top-level domains (TLDs)/th pop. 15–69.....	12.1	44
7.3.2	Country-code TLDs/th pop. 15–69.....	50.7	37
7.3.3	Wikipedia monthly edits/mn pop. 15–69.....	989.2	64
7.3.4	Video uploads on YouTube/pop. 15–69.....	54.9	70

Costa Rica

Key indicators

Population (millions)	4.7
GDP per capita, PPP\$	11,562.2
GDP (US\$ billions)	40.0

	Score (0–100) or value (hard data)	Rank
Global Innovation Index 2012 (out of 141).....	36.3	60
Innovation Output Sub-Index	32.8	53
Innovation Input Sub-Index	39.8	71
Innovation Efficiency Index	0.8	35
Global Innovation Index 2011 (out of 125)	45	45
GII 2012 rank among GII 2011 economies (125)	58	
1 Institutions.....	56.6	67
1.1 Political environment	75.0	35
1.1.1 Political stability*.....	80.9	35
1.1.2 Government effectiveness*.....	49.4	51
1.1.3 Press freedom*.....	94.8	18 ●
1.2 Regulatory environment.....	70.8	49
1.2.1 Regulatory quality*.....	64.6	48
1.2.2 Rule of law*.....	61.1	46
1.2.3 Cost of redundancy dismissal, salary weeks.....	18.7	84
1.3 Business environment	23.9	122
1.3.1 Ease of starting a business*.....	33.8	93
1.3.2 Ease of resolving insolvency*.....	24.4	106
1.3.3 Ease of paying taxes*.....	13.6	121
2 Human capital & research.....	32.2	78
2.1 Education.....	52.1	68
2.1.1 Current expenditure on education, % GNI	6.2	14 ●
2.1.2 Public expenditure/pupil, % GDP/cap.....	18.7	70
2.1.3 School life expectancy, years.....	11.9	88
2.1.4 PISA scales in reading, maths, & science.....	427.5	45
2.1.5 Pupil-teacher ratio, secondary	15.5	73
2.2 Tertiary education	19.4	104
2.2.1 Tertiary enrolment, % gross.....	25.6	79
2.2.2 Graduates in science & engineering, %	11.9	94 ○
2.2.3 Tertiary inbound mobility, %.....	1.4	63
2.2.4 Gross tertiary outbound enrolment, %	0.5	101
2.3 Research & development (R&D).....	25.0	59
2.3.1 Researchers, headcounts/mn pop.	755.4	62
2.3.2 Gross expenditure on R&D, % GDP.....	0.4	65
2.3.3 Quality of scientific research institutions†	60.6	30
3 Infrastructure.....	37.5	56
3.1 Information & communication technologies (ICT).....	36.2	64
3.1.1 ICT access*.....	46.0	64
3.1.2 ICT use*.....	17.4	67
3.1.3 Government's online service*.....	49.7	67
3.1.4 E-participation*.....	31.6	47
3.2 General infrastructure	29.8	103
3.2.1 Electricity output, kWh/cap.....	2,061.2	74
3.2.2 Electricity consumption, kWh/cap.....	1,817.2	72
3.2.3 Quality of trade & transport infrastructure*.....	39.0	65
3.2.4 Gross capital formation, % GDP.....	20.0	91
3.3 Ecological sustainability	46.6	23 ●
3.3.1 GDP/unit of energy use, 2000 PPP\$/kg oil eq.....	9.5	16 ●
3.3.2 Environmental performance*.....	69.0	5 ●
3.3.3 ISO 14001 environmental certificates/bn PPP\$ GDP	1.9	46
4 Market sophistication	28.6	117
4.1 Credit	14.4	111
4.1.1 Ease of getting credit*.....	27.0	88
4.1.2 Domestic credit to private sector, % GDP.....	45.9	69
4.1.3 Microfinance gross loans, % GDP.....	0.2	59

4.2 Investment.....	1.2	139 ○
4.2.1 Ease of protecting investors*.....	3.5	131 ○
4.2.2 Market capitalization, % GDP.....	4.2	101 ○
4.2.3 Total value of stocks traded, % GDP.....	0.1	96 ○
4.2.4 Venture capital deals/tr PPP\$ GDP.....	0.0	65 ○
4.3 Trade & competition	70.2	28
4.3.1 Applied tariff rate, weighted mean, %.....	2.4	49
4.3.2 Non-agricultural mkt access weighted tariff, %.....	0.0	16 ●
4.3.3 Imports of goods & services, % GDP.....	41.2	70
4.3.4 Exports of goods & services, % GDP.....	38.1	70
4.3.5 Intensity of local competition†	65.8	63
5 Business sophistication	44.2	44
5.1 Knowledge workers.....	49.2	56
5.1.1 Knowledge-intensive employment, %.....	27.4	48
5.1.2 Firms offering formal training, % firms.....	54.7	20
5.1.3 R&D performed by business, %.....	30.2	52
5.1.4 R&D financed by business, %	3.3	80 ○
5.1.5 GMAT mean score.....	524.0	57
5.1.6 GMAT test takers/mn pop. 20–34.....	72.1	62
5.2 Innovation linkages	41.3	50
5.2.1 University/industry research collaboration†	55.2	33
5.2.2 State of cluster development†	46.4	47
5.2.3 R&D financed by abroad, %.....	6.6	48
5.2.4 JV–strategic alliance deals/tr PPP\$ GDP	0.0	114 ○
5.2.5 PCT patent filings with foreign inventor, %.....	100.0	1 ●
5.3 Knowledge absorption	42.1	43
5.3.1 Royalty & license fees payments/th GDP.....	1.8	53
5.3.2 High-tech imports less re-imports, %	20.4	7 ●
5.3.3 Computer & comm. service imports, %.....	28.6	70
5.3.4 FDI net inflows, % GDP.....	4.1	44
6 Knowledge & technology outputs	30.5	56
6.1 Knowledge creation.....	12.2	106
6.1.1 Domestic resident patent ap/bn PPP\$ GDP	0.2	102 ○
6.1.2 PCT resident patent ap/bn PPP\$ GDP	0.1	87
6.1.3 Domestic res utility model ap/bn PPP\$ GDP.....	0.1	55 ○
6.1.4 Scientific & technical articles/bn PPP\$ GDP.....	2.0	82
6.2 Knowledge impact	37.2	52
6.2.1 Growth rate of PPP\$ GDP/worker, %.....	1.8	78
6.2.2 New businesses/th pop. 15–64.....	8.8	6 ●
6.2.3 Computer software spending, % GDP.....	0.1	57
6.2.4 ISO 9001 quality certificates/bn PPP\$ GDP	4.3	72
6.3 Knowledge diffusion	42.1	29
6.3.1 Royalty & license fees receipts/th GDP.....	0.2	58
6.3.2 High-tech exports less re-exports, %.....	24.4	5 ●
6.3.3 Computer & comm. service exports, %	40.5	40
6.3.4 FDI net outflows, % GDP	0.1	88
7 Creative outputs	35.2	55
7.1 Creative intangibles.....	50.0	28
7.1.1 Domestic res trademark reg/bn PPP\$ GDP.....	92.0	15 ●
7.1.2 Madrid resident trademark reg/bn PPP\$ GDP.....	n/a	n/a
7.1.3 ICT & business model creation†	58.4	43
7.1.4 ICT & organizational model creation†	48.1	67
7.2 Creative goods & services	17.9	77
7.2.1 Recreation & culture consumption, %.....	6.8	37
7.2.2 National feature films/mn pop. 15–69.....	0.6	78
7.2.3 Paid-for dailies, circulation/th pop. 15–69.....	84.3	63
7.2.4 Creative goods exports, %.....	0.9	75
7.2.5 Creative services exports, %.....	0.2	98 ○
7.3 Online creativity.....	22.9	64
7.3.1 Generic top-level domains (TLDs)/th pop. 15–69.....	6.5	55
7.3.2 Country-code TLDs/th pop. 15–69.....	23.1	67
7.3.3 Wikipedia monthly edits/mn pop. 15–69.....	1,213.3	57
7.3.4 Video uploads on YouTube/pop. 15–69.....	55.9	65

Key indicators

Population (millions)	22.7
GDP per capita, PPP\$	1,571.8
GDP (US\$ billions)	23.8

	Score (0–100) or value (hard data)	Rank
Global Innovation Index 2012 (out of 141).....	22.6	134 ○
Innovation Output Sub-Index	20.7	118
Innovation Input Sub-Index	24.5	139 ○
Innovation Efficiency Index	0.8	24 ●
Global Innovation Index 2011 (out of 125)	117	
GII 2012 rank among GII 2011 economies (125)	122	

1 Institutions.....	33.7	135 ○
1.1 Political environment	23.6	137 ○
1.1.1 Political stability*.....	27.8	133 ○
1.1.2 Government effectiveness*.....	6.1	138 ○
1.1.3 Press freedom*.....	36.8	128
1.2 Regulatory environment.....	56.0	102
1.2.1 Regulatory quality*.....	28.8	128
1.2.2 Rule of law*.....	15.5	135 ○
1.2.3 Cost of redundancy dismissal, salary weeks.....	13.1	57 ●
1.3 Business environment	21.6	124
1.3.1 Ease of starting a business*.....	0.0	140 ○
1.3.2 Ease of resolving insolvency*.....	48.9	72 ●
1.3.3 Ease of paying taxes*.....	15.8	118

2 Human capital & research.....	21.2	118
2.1 Education.....	42.9	99
2.1.1 Current expenditure on education, % GNI	4.3	63 ●
2.1.2 Public expenditure/pupil, % GDP/cap.....	26.3	19 ●
2.1.3 School life expectancy, years.....	n/a	n/a
2.1.4 PISA scales in reading, maths, & science.....	n/a	n/a
2.1.5 Pupil-teacher ratio, secondary	n/a	n/a
2.2 Tertiary education	5.4	136 ○
2.2.1 Tertiary enrolment, % gross.....	8.9	110
2.2.2 Graduates in science & engineering, %	n/a	n/a
2.2.3 Tertiary inbound mobility, %.....	n/a	n/a
2.2.4 Gross tertiary outbound enrolment, %	0.3	115
2.3 Research & development (R&D).....	15.4	102
2.3.1 Researchers, headcounts/mn pop.	133.0	93
2.3.2 Gross expenditure on R&D, % GDP.....	n/a	n/a
2.3.3 Quality of scientific research institutions†.....	29.8	111

3 Infrastructure.....	20.4	126
3.1 Information & communication technologies (ICT).....	17.8	110
3.1.1 ICT access*.....	23.6	109
3.1.2 ICT use*	0.9	134 ○
3.1.3 Government's online service*.....	33.3	107
3.1.4 E-participation*.....	13.2	83
3.2 General infrastructure	21.1	136 ○
3.2.1 Electricity output, kWh/cap.....	275.6	111
3.2.2 Electricity consumption, kWh/cap.....	186.8	115
3.2.3 Quality of trade & transport infrastructure*.....	34.3	84
3.2.4 Gross capital formation, % GDP.....	13.9	134 ○
3.3 Ecological sustainability	22.3	102
3.3.1 GDP/unit of energy use, 2000 PPP\$/kg oil eq.....	2.8	103
3.3.2 Environmental performance*.....	53.5	65 ●
3.3.3 ISO 14001 environmental certificates/bn PPP\$ GDP	0.2	103

4 Market sophistication	21.4	131
4.1 Credit	3.0	137 ○
4.1.1 Ease of getting credit*.....	2.8	126 ○
4.1.2 Domestic credit to private sector, % GDP.....	18.1	122
4.1.3 Microfinance gross loans, % GDP.....	0.2	62

4.2 Investment.....	4.6	126
4.2.1 Ease of protecting investors*.....	7.1	123
4.2.2 Market capitalization, % GDP.....	31.2	60 ●
4.2.3 Total value of stocks traded, % GDP.....	0.6	82
4.2.4 Venture capital deals/tr PPP\$ GDP.....	0.0	65 ○
4.3 Trade & competition	56.5	106
4.3.1 Applied tariff rate, weighted mean, %.....	7.3	102
4.3.2 Non-agricultural mkt access weighted tariff, %.....	1.7	89
4.3.3 Imports of goods & services, % GDP.....	36.3	83
4.3.4 Exports of goods & services, % GDP.....	40.9	61 ●
4.3.5 Intensity of local competition†	60.5	79

5 Business sophistication	25.8	133 ○
5.1 Knowledge workers.....	30.8	111
5.1.1 Knowledge-intensive employment, %.....	n/a	n/a
5.1.2 Firms offering formal training, % firms.....	19.1	92
5.1.3 R&D performed by business, %.....	n/a	n/a
5.1.4 R&D financed by business, %	n/a	n/a
5.1.5 GMAT mean score.....	457.2	104
5.1.6 GMAT test takers/mn pop. 20–34.....	27.1	105

5.2 Innovation linkages	19.9	132
5.2.1 University/industry research collaboration†	22.8	127 ○
5.2.2 State of cluster development†	20.2	132 ○
5.2.3 R&D financed by abroad, %.....	n/a	n/a
5.2.4 JV–strategic alliance deals/tr PPP\$ GDP	22.4	62 ●
5.2.5 PCT patent filings with foreign inventor, %.....	n/a	n/a

5.3 Knowledge absorption	26.8	112
5.3.1 Royalty & license fees payments/th GDP.....	0.9	78
5.3.2 High-tech imports less re-imports, %	5.7	94
5.3.3 Computer & comm. service imports, %.....	27.2	72 ●
5.3.4 FDI net inflows, % GDP.....	1.8	81

6 Knowledge & technology outputs	21.9	96
6.1 Knowledge creation.....	15.7	93
6.1.1 Domestic resident patent ap/bn PPP\$ GDP	0.2	96
6.1.2 PCT resident patent ap/bn PPP\$ GDP.....	0.1	85
6.1.3 Domestic res utility model ap/bn PPP\$ GDP.....	n/a	n/a
6.1.4 Scientific & technical articles/bn PPP\$ GDP.....	1.6	96

6.2 Knowledge impact	24.8	105
6.2.1 Growth rate of PPP\$ GDP/worker, %.....	0.3	102
6.2.2 New businesses/th pop. 15–64.....	n/a	n/a
6.2.3 Computer software spending, % GDP.....	n/a	n/a
6.2.4 ISO 9001 quality certificates/bn PPP\$ GDP	1.2	110

6.3 Knowledge diffusion	25.2	73 ●
6.3.1 Royalty & license fees receipts/th GDP.....	0.0	91
6.3.2 High-tech exports less re-exports, %.....	0.7	81
6.3.3 Computer & comm. service exports, %	57.4	14 ●
6.3.4 FDI net outflows, % GDP	n/a	n/a

7 Creative outputs	19.6	122
7.1 Creative intangibles.....	35.5	90
7.1.1 Domestic res trademark reg/bn PPP\$ GDP.....	n/a	n/a
7.1.2 Madrid resident trademark reg/bn PPP\$ GDP.....	n/a	n/a
7.1.3 ICT & business model creation†	37.6	119
7.1.4 ICT & organizational model creation†	33.4	112

7.2 Creative goods & services	2.0	130
7.2.1 Recreation & culture consumption, %.....	n/a	n/a
7.2.2 National feature films/mn pop. 15–69.....	n/a	n/a
7.2.3 Paid-for dailies, circulation/th pop. 15–69.....	18.2	105
7.2.4 Creative goods exports, %.....	0.1	115
7.2.5 Creative services exports, %.....	0.6	80

7.3 Online creativity.....	5.2	125
7.3.1 Generic top-level domains (TLDs)/th pop. 15–69.....	0.2	130
7.3.2 Country-code TLDs/th pop. 15–69.....	2.2	113
7.3.3 Wikipedia monthly edits/mn pop. 15–69.....	29.6	113
7.3.4 Video uploads on YouTube/pop. 15–69.....	18.5	124

Key indicators

Population (millions)	4.4
GDP per capita, PPP\$	18,338.5
GDP (US\$ billions)	64.2

	Score (0–100) or value (hard data)	Rank
Global Innovation Index 2012 (out of 141).....	40.7	42
Innovation Output Sub-Index	34.9	45
Innovation Input Sub-Index	46.4	44
Innovation Efficiency Index	0.8	63
Global Innovation Index 2011 (out of 125)	44	44
GII 2012 rank among GII 2011 economies (125)	41	

1	Institutions.....	69.2	41
1.1	Political environment	71.5	42
1.1.1	Political stability*.....	79.9	38
1.1.2	Government effectiveness*.....	57.2	43
1.1.3	Press freedom*.....	77.5	55
1.2	Regulatory environment.....	72.6	44
1.2.1	Regulatory quality*.....	66.0	46
1.2.2	Rule of law*.....	52.7	52
1.2.3	Cost of redundancy dismissal, salary weeks.....	15.1	69
1.3	Business environment	63.5	35
1.3.1	Ease of starting a business*.....	68.3	45
1.3.2	Ease of resolving insolvency*.....	39.5	85
1.3.3	Ease of paying taxes*.....	82.7	25 ●
2	Human capital & research.....	41.9	51
2.1	Education.....	57.8	48
2.1.1	Current expenditure on education, % GNI	3.9	80
2.1.2	Public expenditure/pupil, % GDP/cap.....	23.5	38
2.1.3	School life expectancy, years.....	13.9	52
2.1.4	PISA scales in reading, maths, & science.....	474.0	35
2.1.5	Pupil-teacher ratio, secondary	8.3	13 ●
2.2	Tertiary education	37.7	55
2.2.1	Tertiary enrolment, % gross.....	49.2	47
2.2.2	Graduates in science & engineering, %	24.4	29
2.2.3	Tertiary inbound mobility, %.....	0.5	89 ○
2.2.4	Gross tertiary outbound enrolment, %	2.4	35
2.3	Research & development (R&D).....	30.0	42
2.3.1	Researchers, headcounts/mn pop.	2,696.7	33
2.3.2	Gross expenditure on R&D, % GDP.....	0.8	40
2.3.3	Quality of scientific research institutions†	50.9	45
3	Infrastructure.....	44.9	36
3.1	Information & communication technologies (ICT).....	51.7	39
3.1.1	ICT access*.....	70.5	28 ●
3.1.2	ICT use*.....	43.3	33
3.1.3	Government's online service*.....	64.1	40
3.1.4	E-participation*.....	29.0	52
3.2	General infrastructure	32.9	89
3.2.1	Electricity output, kWh/cap.....	2,865.7	61
3.2.2	Electricity consumption, kWh/cap.....	3,709.4	49
3.2.3	Quality of trade & transport infrastructure*.....	34.0	86
3.2.4	Gross capital formation, % GDP.....	23.4	58
3.3	Ecological sustainability	50.0	19 ●
3.3.1	GDP/unit of energy use, 2000 PPP\$/kg oil eq.....	7.3	33
3.3.2	Environmental performance*.....	64.2	20 ●
3.3.3	ISO 14001 environmental certificates/bn PPP\$ GDP.....	5.7	20 ●
4	Market sophistication	36.8	77
4.1	Credit	24.4	86
4.1.1	Ease of getting credit*.....	50.4	62
4.1.2	Domestic credit to private sector, % GDP.....	70.1	48
4.1.3	Microfinance gross loans, % GDP.....	0.0	82 ○

4.2	Investment.....	19.1	86
4.2.1	Ease of protecting investors*.....	15.8	110 ○
4.2.2	Market capitalization, % GDP.....	40.9	52
4.2.3	Total value of stocks traded, % GDP.....	1.7	65
4.2.4	Venture capital deals/tr PPP\$ GDP.....	12.3	41
4.3	Trade & competition	67.0	49
4.3.1	Applied tariff rate, weighted mean, %.....	1.2	9 ●
4.3.2	Non-agricultural mkt access weighted tariff, %.....	0.3	41
4.3.3	Imports of goods & services, % GDP.....	38.8	74
4.3.4	Exports of goods & services, % GDP.....	38.3	69
4.3.5	Intensity of local competition†	51.5	111 ○
5	Business sophistication	39.4	64
5.1	Knowledge workers.....	48.0	63
5.1.1	Knowledge-intensive employment, %.....	30.1	42
5.1.2	Firms offering formal training, % firms.....	28.0	68 ○
5.1.3	R&D performed by business, %.....	40.4	43
5.1.4	R&D financed by business, %	39.8	41
5.1.5	GMAT mean score.....	484.3	85
5.1.6	GMAT test takers/mn pop. 20–34.....	113.7	46
5.2	Innovation linkages	28.2	107 ○
5.2.1	University/industry research collaboration†	41.4	74
5.2.2	State of cluster development†	39.4	76
5.2.3	R&D financed by abroad, %.....	7.0	46
5.2.4	JV–strategic alliance deals/tr PPP\$ GDP	19.8	67
5.2.5	PCT patent filings with foreign inventor, %.....	26.7	69 ○
5.3	Knowledge absorption	41.9	44
5.3.1	Royalty & license fees payments/th GDP.....	3.7	28
5.3.2	High-tech imports less re-imports, %	7.5	76
5.3.3	Computer & comm. service imports, %.....	52.4	11 ●
5.3.4	FDI net inflows, % GDP.....	0.5	121 ○
6	Knowledge & technology outputs	34.0	45
6.1	Knowledge creation.....	35.1	39
6.1.1	Domestic resident patent ap/bn PPP\$ GDP	3.5	41
6.1.2	PCT resident patent ap/bn PPP\$ GDP	0.6	33
6.1.3	Domestic res utility model ap/bn PPP\$ GDP.....	1.2	27
6.1.4	Scientific & technical articles/bn PPP\$ GDP.....	14.8	29
6.2	Knowledge impact	44.9	33
6.2.1	Growth rate of PPP\$ GDP/worker, %.....	3.0	51
6.2.2	New businesses/th pop. 15–64.....	2.6	39
6.2.3	Computer software spending, % GDP.....	n/a	n/a
6.2.4	ISO 9001 quality certificates/bn PPP\$ GDP	26.7	18 ●
6.3	Knowledge diffusion	22.1	91 ○
6.3.1	Royalty & license fees receipts/th GDP.....	0.5	42
6.3.2	High-tech exports less re-exports, %.....	5.8	38
6.3.3	Computer & comm. service exports, %	14.7	105 ○
6.3.4	FDI net outflows, % GDP	-0.2	110 ○
7	Creative outputs	35.8	50
7.1	Creative intangibles.....	34.9	93 ○
7.1.1	Domestic res trademark reg/bn PPP\$ GDP.....	43.4	40
7.1.2	Madrid resident trademark reg/bn PPP\$ GDP.....	1.6	12 ●
7.1.3	ICT & business model creation†	49.2	75
7.1.4	ICT & organizational model creation†	36.5	108 ○
7.2	Creative goods & services	34.8	34
7.2.1	Recreation & culture consumption, %.....	7.6	28
7.2.2	National feature films/mn pop. 15–69.....	2.5	42
7.2.3	Paid-for dailies, circulation/th pop. 15–69.....	167.8	30
7.2.4	Creative goods exports, %.....	2.8	27 ●
7.2.5	Creative services exports, %.....	6.9	30
7.3	Online creativity.....	38.7	37
7.3.1	Generic top-level domains (TLDs)/th pop. 15–69.....	14.5	40
7.3.2	Country-code TLDs/th pop. 15–69.....	46.6	41
7.3.3	Wikipedia monthly edits/mn pop. 15–69.....	5,650.9	28
7.3.4	Video uploads on YouTube/pop. 15–69.....	65.0	38

Key indicators

Population (millions)	0.8
GDP per capita, PPP\$	29,100.3
GDP (US\$ billions)	25.7

	Score (0–100) or value (hard data)	Rank
Global Innovation Index 2012 (out of 141).....	47.9	28
Innovation Output Sub-Index	39.3	32
Innovation Input Sub-Index	56.4	25
Innovation Efficiency Index	0.7	82
Global Innovation Index 2011 (out of 125) .....	.....	28
GII 2012 rank among GII 2011 economies (125) .....	.....	27
1 Institutions.....	86.3	15
1.1 Political environment	83.6	20
1.1.1 Political stability*.....	75.1	48
1.1.2 Government effectiveness*.....	80.3	18
1.1.3 Press freedom*.....	95.3	15
1.2 Regulatory environment.....	91.5	17
1.2.1 Regulatory quality*.....	86.6	21
1.2.2 Rule of law*.....	79.2	25
1.2.3 Cost of redundancy dismissal, salary weeks.....	8.0	1 ●
1.3 Business environment	83.9	11 ●
1.3.1 Ease of starting a business*.....	84.8	22
1.3.2 Ease of resolving insolvency*.....	85.6	21
1.3.3 Ease of paying taxes*.....	81.2	27
2 Human capital & research.....	49.3	30
2.1 Education.....	64.5	19
2.1.1 Current expenditure on education, % GNI	4.0	78
2.1.2 Public expenditure/pupil, % GDP/cap.....	34.9	4 ●
2.1.3 School life expectancy, years.....	14.7	40
2.1.4 PISA scales in reading, maths, & science.....	n/a	n/a
2.1.5 Pupil-teacher ratio, secondary	9.9	26
2.2 Tertiary education	59.0	6 ●
2.2.1 Tertiary enrolment, % gross.....	52.0	43
2.2.2 Graduates in science & engineering, %	13.7	84 ○
2.2.3 Tertiary inbound mobility, %.....	31.8	5 ●
2.2.4 Gross tertiary outbound enrolment, %	41.3	1 ●
2.3 Research & development (R&D).....	24.3	61
2.3.1 Researchers, headcounts/mn pop.	1,453.1	48
2.3.2 Gross expenditure on R&D, % GDP.....	0.5	59
2.3.3 Quality of scientific research institutions†.....	51.8	44
3 Infrastructure.....	43.3	42
3.1 Information & communication technologies (ICT).....	43.3	51
3.1.1 ICT access*.....	61.3	44
3.1.2 ICT use*	47.8	28
3.1.3 Government's online service*.....	56.2	51
3.1.4 E-participation*.....	7.9	98 ○
3.2 General infrastructure	39.1	55
3.2.1 Electricity output, kWh/cap.....	6,558.3	31
3.2.2 Electricity consumption, kWh/cap.....	6,250.6	28
3.2.3 Quality of trade & transport infrastructure*.....	48.5	44
3.2.4 Gross capital formation, % GDP.....	18.4	109 ○
3.3 Ecological sustainability	47.4	21
3.3.1 GDP/unit of energy use, 2000 PPP\$/kg oil eq.....	7.0	36
3.3.2 Environmental performance*.....	57.2	43
3.3.3 ISO 14001 environmental certificates/bn PPP\$ GDP	5.8	19
4 Market sophistication	56.2	20
4.1 Credit	69.3	7 ●
4.1.1 Ease of getting credit*	38.7	72
4.1.2 Domestic credit to private sector, % GDP.....	283.6	1 ●
4.1.3 Microfinance gross loans, % GDP	n/a	n/a

4.2 Investment.....	32.4	49
4.2.1 Ease of protecting investors*.....	35.9	76 ○
4.2.2 Market capitalization, % GDP.....	19.9	75 ○
4.2.3 Total value of stocks traded, % GDP.....	3.8	59
4.2.4 Venture capital deals/tr PPP\$ GDP.....	126.3	10 ●
4.3 Trade & competition	66.8	50
4.3.1 Applied tariff rate, weighted mean, %.....	1.6	11
4.3.2 Non-agricultural mkt access weighted tariff, %.....	2.0	92 ○
4.3.3 Imports of goods & services, % GDP	46.6	53
4.3.4 Exports of goods & services, % GDP	40.1	64
4.3.5 Intensity of local competition†	73.2	28
5 Business sophistication	47.2	37
5.1 Knowledge workers.....	52.5	49
5.1.1 Knowledge-intensive employment, %.....	31.4	39
5.1.2 Firms offering formal training, % firms.....	n/a	n/a
5.1.3 R&D performed by business, %.....	22.1	62 ○
5.1.4 R&D financed by business, %	17.8	65 ○
5.1.5 GMAT mean score.....	532.2	51
5.1.6 GMAT test takers/mn pop. 20–34.....	300.5	18
5.2 Innovation linkages	53.5	15
5.2.1 University/industry research collaboration†	48.7	44
5.2.2 State of cluster development†	50.1	34
5.2.3 R&D financed by abroad, %.....	14.7	21
5.2.4 JV–strategic alliance deals/tr PPP\$ GDP	146.6	8 ●
5.2.5 PCT patent filings with foreign inventor, %.....	84.4	39
5.3 Knowledge absorption	35.6	66
5.3.1 Royalty & license fees payments/th GDP.....	1.3	62
5.3.2 High-tech imports less re-imports, %	10.4	48
5.3.3 Computer & comm. service imports, %.....	16.9	110 ○
5.3.4 FDI net inflows, % GDP	20.9	5 ●
6 Knowledge & technology outputs	44.7	25
6.1 Knowledge creation.....	36.4	36
6.1.1 Domestic resident patent ap/bn PPP\$ GDP	1.7	59
6.1.2 PCT resident patent ap/bn PPP\$ GDP	1.1	31
6.1.3 Domestic res utility model ap/bn PPP\$ GDP.....	n/a	n/a
6.1.4 Scientific & technical articles/bn PPP\$ GDP.....	8.6	39
6.2 Knowledge impact	60.9	5 ●
6.2.1 Growth rate of PPP\$ GDP/worker, %	1.3	92 ○
6.2.2 New businesses/th pop. 15–64.....	20.3	1 ●
6.2.3 Computer software spending, % GDP.....	n/a	n/a
6.2.4 ISO 9001 quality certificates/bn PPP\$ GDP	27.7	17
6.3 Knowledge diffusion	36.7	36
6.3.1 Royalty & license fees receipts/th GDP.....	0.4	51
6.3.2 High-tech exports less re-exports, %.....	19.2	11 ●
6.3.3 Computer & comm. service exports, %	28.7	63
6.3.4 FDI net outflows, % GDP	4.3	13
7 Creative outputs	34.0	63
7.1 Creative intangibles.....	36.5	87
7.1.1 Domestic res trademark reg/bn PPP\$ GDP.....	49.8	33
7.1.2 Madrid resident trademark reg/bn PPP\$ GDP.....	0.9	23
7.1.3 ICT & business model creation†	52.3	66
7.1.4 ICT & organizational model creation†	52.1	54
7.2 Creative goods & services	26.0	56
7.2.1 Recreation & culture consumption, %	7.8	24
7.2.2 National feature films/mn pop. 15–69.....	1.2	63
7.2.3 Paid-for dailies, circulation/th pop. 15–69.....	123.7	47
7.2.4 Creative goods exports, %.....	2.1	40
7.2.5 Creative services exports, %.....	1.1	69
7.3 Online creativity.....	37.1	39
7.3.1 Generic top-level domains (TLDs)/th pop. 15–69.....	35.2	23
7.3.2 Country-code TLDs/th pop. 15–69.....	35.1	50
7.3.3 Wikipedia monthly edits/mn pop. 15–69.....	2,433.4	46
7.3.4 Video uploads on YouTube/pop. 15–69.....	65.9	33

Czech Republic

Key indicators

Population (millions)	10.5
GDP per capita, PPP\$	25,933.8
GDP (US\$ billions)	220.3

	Score (0–100) or value (hard data)	Rank
Global Innovation Index 2012 (out of 141).....	49.7	27
Innovation Output Sub-Index	46.1	23
Innovation Input Sub-Index	53.3	31
Innovation Efficiency Index	0.9	22
Global Innovation Index 2011 (out of 125)	27	
GII 2012 rank among GII 2011 economies (125)	26	

1	Institutions.....	68.2	44
1.1	Political environment	84.3	19
1.1.1	Political stability*.....	88.8	17
1.1.2	Government effectiveness*.....	67.5	31
1.1.3	Press freedom*.....	96.6	13 ●
1.2	Regulatory environment.....	75.5	43
1.2.1	Regulatory quality*.....	83.1	24
1.2.2	Rule of law*.....	73.0	30
1.2.3	Cost of redundancy dismissal, salary weeks	21.7	95 ○
1.3	Business environment	44.8	82
1.3.1	Ease of starting a business*.....	24.4	106 ○
1.3.2	Ease of resolving insolvency*.....	79.8	29
1.3.3	Ease of paying taxes*.....	30.2	97 ○
2	Human capital & research.....	49.1	31
2.1	Education.....	57.8	49
2.1.1	Current expenditure on education, % GNI	4.0	75
2.1.2	Public expenditure/pupil, % GDP/cap.....	20.6	52
2.1.3	School life expectancy, years.....	15.3	27
2.1.4	PISA scales in reading, maths, & science	490.5	26
2.1.5	Pupil-teacher ratio, secondary	11.2	39
2.2	Tertiary education	46.3	30
2.2.1	Tertiary enrolment, % gross.....	60.7	31
2.2.2	Graduates in science & engineering, %	23.7	33
2.2.3	Tertiary inbound mobility, %.....	7.3	20
2.2.4	Gross tertiary outbound enrolment, %	1.5	59
2.3	Research & development (R&D).....	43.3	29
2.3.1	Researchers, headcounts/mn pop.	4,127.7	23
2.3.2	Gross expenditure on R&D, % GDP.....	1.5	24
2.3.3	Quality of scientific research institutions†	63.6	25
3	Infrastructure.....	52.0	24
3.1	Information & communication technologies (ICT).....	46.4	46
3.1.1	ICT access*.....	64.8	36
3.1.2	ICT use*.....	40.3	37
3.1.3	Government's online service*.....	54.3	53
3.1.4	E-participation*.....	26.3	55
3.2	General infrastructure	45.7	33
3.2.1	Electricity output, kWh/cap.....	8,120.5	23
3.2.2	Electricity consumption, kWh/cap.....	6,343.5	27
3.2.3	Quality of trade & transport infrastructure*.....	56.3	33
3.2.4	Gross capital formation, % GDP.....	22.6	67
3.3	Ecological sustainability	63.8	5 ●
3.3.1	GDP/unit of energy use, 2000 PPP\$/kg oil eq.....	5.0	74 ○
3.3.2	Environmental performance*.....	64.8	18
3.3.3	ISO 14001 environmental certificates/bn PPP\$ GDP	25.3	1 ●
4	Market sophistication	44.2	48
4.1	Credit	37.7	49
4.1.1	Ease of getting credit*.....	57.7	43
4.1.2	Domestic credit to private sector, % GDP	56.2	56
4.1.3	Microfinance gross loans, % GDP	n/a	n/a

4.2	Investment.....	18.8	87 ○
4.2.1	Ease of protecting investors*.....	35.9	76 ○
4.2.2	Market capitalization, % GDP.....	22.4	71 ○
4.2.3	Total value of stocks traded, % GDP.....	7.3	53
4.2.4	Venture capital deals/tr PPP\$ GDP.....	3.7	60
4.3	Trade & competition	76.2	12 ●
4.3.1	Applied tariff rate, weighted mean, %.....	1.6	11
4.3.2	Non-agricultural mkt access weighted tariff, %.....	2.0	92 ○
4.3.3	Imports of goods & services, % GDP.....	74.5	16
4.3.4	Exports of goods & services, % GDP.....	79.3	12 ●
4.3.5	Intensity of local competition†	77.4	15 ●
5	Business sophistication	53.0	22
5.1	Knowledge workers.....	73.4	18
5.1.1	Knowledge-intensive employment, %.....	40.5	18
5.1.2	Firms offering formal training, % firms.....	70.7	4 ●
5.1.3	R&D performed by business, %.....	60.0	23
5.1.4	R&D financed by business, %	45.8	28
5.1.5	GMAT mean score.....	578.1	14 ●
5.1.6	GMAT test takers/mn pop. 20–34.....	44.3	86 ○
5.2	Innovation linkages	33.6	78
5.2.1	University/industry research collaboration†	57.8	29
5.2.2	State of cluster development†	47.1	45
5.2.3	R&D financed by abroad, %.....	9.2	35
5.2.4	JV–strategic alliance deals/tr PPP\$ GDP	11.7	83
5.2.5	PCT patent filings with foreign inventor, %.....	17.5	86 ○
5.3	Knowledge absorption	52.0	15 ●
5.3.1	Royalty & license fees payments/th GDP.....	4.0	24
5.3.2	High-tech imports less re-imports, %	18.9	11 ●
5.3.3	Computer & comm. service imports, %.....	48.8	18
5.3.4	FDI net inflows, % GDP.....	3.5	49
6	Knowledge & technology outputs	48.4	20
6.1	Knowledge creation.....	46.2	27
6.1.1	Domestic resident patent ap/bn PPP\$ GDP	3.9	38
6.1.2	PCT resident patent ap/bn PPP\$ GDP	0.5	36
6.1.3	Domestic res utility model ap/bn PPP\$ GDP.....	5.9	9
6.1.4	Scientific & technical articles/bn PPP\$ GDP.....	15.6	23
6.2	Knowledge impact	61.8	4 ●
6.2.1	Growth rate of PPP\$ GDP/worker, %.....	3.7	38
6.2.2	New businesses/th pop. 15–64.....	3.0	34
6.2.3	Computer software spending, % GDP.....	1.3	1 ●
6.2.4	ISO 9001 quality certificates/bn PPP\$ GDP	62.0	4 ●
6.3	Knowledge diffusion	37.3	35
6.3.1	Royalty & license fees receipts/th GDP.....	0.5	41
6.3.2	High-tech exports less re-exports, %.....	15.4	19
6.3.3	Computer & comm. service exports, %	40.0	41
6.3.4	FDI net outflows, % GDP	0.9	41
7	Creative outputs	43.9	26
7.1	Creative intangibles.....	38.4	81
7.1.1	Domestic res trademark reg/bn PPP\$ GDP.....	86.8	17
7.1.2	Madrid resident trademark reg/bn PPP\$ GDP.....	1.2	17
7.1.3	ICT & business model creation†	49.4	74
7.1.4	ICT & organizational model creation†	37.9	102 ○
7.2	Creative goods & services	46.8	9 ●
7.2.1	Recreation & culture consumption, %.....	10.8	11 ●
7.2.2	National feature films/mn pop. 15–69.....	4.8	22
7.2.3	Paid-for dailies, circulation/th pop. 15–69.....	172.4	28
7.2.4	Creative goods exports, %.....	3.4	23
7.2.5	Creative services exports, %.....	9.3	21
7.3	Online creativity.....	52.0	24
7.3.1	Generic top-level domains (TLDs)/th pop. 15–69.....	37.5	21
7.3.2	Country-code TLDs/th pop. 15–69.....	66.1	16
7.3.3	Wikipedia monthly edits/mn pop. 15–69.....	7,029.0	23
7.3.4	Video uploads on YouTube/pop. 15–69.....	68.5	29

Key indicators

Population (millions)	5.5
GDP per capita, PPP\$	37,741.9
GDP (US\$ billions)	349.1

	Score (0–100) or value (hard data)	Rank
Global Innovation Index 2012 (out of 141).....	59.9	7
Innovation Output Sub-Index	52.5	9
Innovation Input Sub-Index	67.4	8
Innovation Efficiency Index	0.8	52
Global Innovation Index 2011 (out of 125)		6
GII 2012 rank among GII 2011 economies (125)		7

1	Institutions.....	95.3	1 ●
1.1	Political environment	94.9	2 ●
1.1.1	Political stability*.....	89.7	14
1.1.2	Government effectiveness*.....	97.9	3 ●
1.1.3	Press freedom*.....	97.1	9
1.2	Regulatory environment.....	99.4	1 ●
1.2.1	Regulatory quality*.....	100.0	1 ●
1.2.2	Rule of law*.....	97.5	4 ●
1.2.3	Cost of redundancy dismissal, salary weeks.....	8.0	1 ●
1.3	Business environment	91.6	5 ●
1.3.1	Ease of starting a business*.....	84.1	23
1.3.2	Ease of resolving insolvency*.....	97.1	5 ●
1.3.3	Ease of paying taxes*.....	93.5	10
2	Human capital & research.....	62.9	5 ●
2.1	Education.....	75.0	4 ●
2.1.1	Current expenditure on education, % GNI	7.4	7
2.1.2	Public expenditure/pupil, % GDP/cap.....	30.9	7
2.1.3	School life expectancy, years.....	16.8	11
2.1.4	PISA scales in reading, maths, & science.....	499.2	19
2.1.5	Pupil-teacher ratio, secondary	10.1	28
2.2	Tertiary education	43.9	38
2.2.1	Tertiary enrolment, % gross.....	74.4	13
2.2.2	Graduates in science & engineering, %	19.6	57 ○
2.2.3	Tertiary inbound mobility, %.....	5.4	28
2.2.4	Gross tertiary outbound enrolment, %	1.6	55 ○
2.3	Research & development (R&D).....	69.7	5 ●
2.3.1	Researchers, headcounts/mn pop.	8,812.0	4 ●
2.3.2	Gross expenditure on R&D, % GDP.....	3.0	6
2.3.3	Quality of scientific research institutions†	72.7	14
3	Infrastructure.....	56.8	12
3.1	Information & communication technologies (ICT).....	73.2	13
3.1.1	ICT access*.....	83.3	8
3.1.2	ICT use*	68.5	6
3.1.3	Government's online service*.....	85.6	13
3.1.4	E-participation*.....	55.3	28
3.2	General infrastructure	46.8	32
3.2.1	Electricity output, kWh/cap.....	6,968.0	28
3.2.2	Electricity consumption, kWh/cap.....	6,370.5	26
3.2.3	Quality of trade & transport infrastructure*	74.8	15
3.2.4	Gross capital formation, % GDP.....	16.4	123 ○
3.3	Ecological sustainability	50.4	18
3.3.1	GDP/unit of energy use, 2000 PPP\$/kg oil eq.....	8.4	25
3.3.2	Environmental performance*.....	63.6	21
3.3.3	ISO 14001 environmental certificates/bn PPP\$ GDP	5.0	21
4	Market sophistication	66.6	8
4.1	Credit	78.1	5 ●
4.1.1	Ease of getting credit*	77.4	21
4.1.2	Domestic credit to private sector, % GDP.....	225.0	2 ●
4.1.3	Microfinance gross loans, % GDP	n/a	n/a

4.2	Investment.....	54.6	15
4.2.1	Ease of protecting investors*.....	76.2	27
4.2.2	Market capitalization, % GDP.....	74.7	30
4.2.3	Total value of stocks traded, % GDP.....	46.6	23
4.2.4	Venture capital deals/tr PPP\$ GDP.....	143.4	9
4.3	Trade & competition	67.1	46
4.3.1	Applied tariff rate, weighted mean, %.....	1.6	11
4.3.2	Non-agricultural mkt access weighted tariff, %.....	2.0	92 ○
4.3.3	Imports of goods & services, % GDP	45.0	55
4.3.4	Exports of goods & services, % GDP	50.6	43
4.3.5	Intensity of local competition†	69.4	44
5	Business sophistication	55.2	17
5.1	Knowledge workers.....	78.0	10
5.1.1	Knowledge-intensive employment, %.....	45.1	5
5.1.2	Firms offering formal training, % firms.....	n/a	n/a
5.1.3	R&D performed by business, %.....	66.8	15
5.1.4	R&D financed by business, %	60.2	15
5.1.5	GMAT mean score.....	549.5	38
5.1.6	GMAT test takers/mn pop. 20–34.....	112.3	47
5.2	Innovation linkages	45.5	35
5.2.1	University/industry research collaboration†	69.2	14
5.2.2	State of cluster development†	61.5	16
5.2.3	R&D financed by abroad, %.....	8.7	36
5.2.4	JV–strategic alliance deals/tr PPP\$ GDP	54.2	25
5.2.5	PCT patent filings with foreign inventor, %.....	37.5	59 ○
5.3	Knowledge absorption	42.2	41
5.3.1	Royalty & license fees payments/th GDP.....	n/a	n/a
5.3.2	High-tech imports less re-imports, %	11.7	35
5.3.3	Computer & comm. service imports, %.....	34.8	55 ○
5.3.4	FDI net inflows, % GDP.....	-0.2	134 ○
6	Knowledge & technology outputs	51.5	16
6.1	Knowledge creation.....	64.4	11
6.1.1	Domestic resident patent ap/bn PPP\$ GDP	17.2	7
6.1.2	PCT resident patent ap/bn PPP\$ GDP	6.3	6
6.1.3	Domestic res utility model ap/bn PPP\$ GDP.....	1.0	33 ○
6.1.4	Scientific & technical articles/bn PPP\$ GDP.....	27.1	6 ●
6.2	Knowledge impact	48.7	22
6.2.1	Growth rate of PPP\$ GDP/worker, %	4.0	32
6.2.2	New businesses/th pop. 15–64.....	4.6	20
6.2.3	Computer software spending, % GDP.....	0.8	10
6.2.4	ISO 9001 quality certificates/bn PPP\$ GDP	9.2	49
6.3	Knowledge diffusion	41.5	30
6.3.1	Royalty & license fees receipts/th GDP.....	n/a	n/a
6.3.2	High-tech exports less re-exports, %.....	9.5	27
6.3.3	Computer & comm. service exports, %	37.4	47
6.3.4	FDI net outflows, % GDP	1.1	37
7	Creative outputs	53.5	8
7.1	Creative intangibles.....	46.7	39
7.1.1	Domestic res trademark reg/bn PPP\$ GDP.....	17.5	65 ○
7.1.2	Madrid resident trademark reg/bn PPP\$ GDP.....	1.9	9
7.1.3	ICT & business model creation†	72.6	7
7.1.4	ICT & organizational model creation†	65.2	16
7.2	Creative goods & services	46.4	10
7.2.1	Recreation & culture consumption, %.....	11.2	7
7.2.2	National feature films/mn pop. 15–69.....	8.4	11
7.2.3	Paid-for dailies, circulation/th pop. 15–69.....	269.8	16
7.2.4	Creative goods exports, %.....	3.9	19
7.2.5	Creative services exports, %.....	0.7	78 ○
7.3	Online creativity.....	74.1	6 ●
7.3.1	Generic top-level domains (TLDs)/th pop. 15–69.....	99.7	6 ●
7.3.2	Country-code TLDs/th pop. 15–69.....	79.7	3 ●
7.3.3	Wikipedia monthly edits/mn pop. 15–69.....	8,116.0	16
7.3.4	Video uploads on YouTube/pop. 15–69	75.9	13

Dominican Republic

Key indicators

Population (millions)	10.1
GDP per capita, PPP\$	9,289.2
GDP (US\$ billions)	54.4

	Score (0–100) or value (hard data)	Rank
Global Innovation Index 2012 (out of 141)	30.9	86
Innovation Output Sub-Index	27.3	77
Innovation Input Sub-Index	34.6	93
Innovation Efficiency Index	0.8	46 ●
Global Innovation Index 2011 (out of 125)	n/a	
GII 2012 rank among GII 2011 economies (125)	n/a	

1	Institutions	43.6	104
1.1	Political environment	53.7	78
1.1.1	Political stability*	65.9	67
1.1.2	Government effectiveness*	24.5	106
1.1.3	Press freedom*	70.8	74
1.2	Regulatory environment	50.2	117
1.2.1	Regulatory quality*	46.6	85
1.2.2	Rule of law*	26.3	112
1.2.3	Cost of redundancy dismissal, salary weeks	26.2	113
1.3	Business environment	26.8	115
1.3.1	Ease of starting a business*	19.4	113
1.3.2	Ease of resolving insolvency*	5.7	132 ○
1.3.3	Ease of paying taxes*	55.3	63
2	Human capital & research	23.7	114
2.1	Education	25.8	130 ○
2.1.1	Current expenditure on education, % GNI	1.9	126 ○
2.1.2	Public expenditure/pupil, % GDP/cap	6.5	115 ○
2.1.3	School life expectancy, years	12.3	81
2.1.4	PISA scales in reading, maths, & science	n/a	n/a
2.1.5	Pupil-teacher ratio, secondary	28.2	116 ○
2.2	Tertiary education	17.6	112
2.2.1	Tertiary enrolment, % gross	34.0	69
2.2.2	Graduates in science & engineering, %	n/a	n/a
2.2.3	Tertiary inbound mobility, %	n/a	n/a
2.2.4	Gross tertiary outbound enrolment, %	0.3	113
2.3	Research & development (R&D)	27.5	50 ●
2.3.1	Researchers, headcounts/mn pop.	n/a	n/a
2.3.2	Gross expenditure on R&D, % GDP	n/a	n/a
2.3.3	Quality of scientific research institutions†	27.5	118 ○
3	Infrastructure	35.6	61
3.1	Information & communication technologies (ICT)	37.0	60
3.1.1	ICT access*	31.2	99
3.1.2	ICT use*	15.9	71
3.1.3	Government's online service*	53.6	55
3.1.4	E-participation*	47.4	34 ●
3.2	General infrastructure	24.7	125 ○
3.2.1	Electricity output, kWh/cap	1,544.2	83
3.2.2	Electricity consumption, kWh/cap	1,318.7	85
3.2.3	Quality of trade & transport infrastructure*	33.5	90
3.2.4	Gross capital formation, % GDP	16.5	122 ○
3.3	Ecological sustainability	45.1	26 ●
3.3.1	GDP/unit of energy use, 2000 PPP\$/kg oil eq	13.0	3 ●
3.3.2	Environmental performance*	52.4	69
3.3.3	ISO 14001 environmental certificates/bn PPP\$ GDP	0.4	88
4	Market sophistication	36.6	79
4.1	Credit	19.3	92
4.1.1	Ease of getting credit*	38.7	72
4.1.2	Domestic credit to private sector, % GDP	22.7	112
4.1.3	Microfinance gross loans, % GDP	1.1	34 ●

4.2	Investment	29.1	57
4.2.1	Ease of protecting investors*	58.2	48
4.2.2	Market capitalization, % GDP	n/a	n/a
4.2.3	Total value of stocks traded, % GDP	n/a	n/a
4.2.4	Venture capital deals/tr PPP\$ GDP	0.0	65 ○
4.3	Trade & competition	61.3	80
4.3.1	Applied tariff rate, weighted mean, %	6.1	92
4.3.2	Non-agricultural mkt access weighted tariff, %	0.4	53 ●
4.3.3	Imports of goods & services, % GDP	34.0	94
4.3.4	Exports of goods & services, % GDP	22.3	117
4.3.5	Intensity of local competition†	66.8	58
5	Business sophistication	33.6	101
5.1	Knowledge workers	43.4	73
5.1.1	Knowledge-intensive employment, %	15.8	84
5.1.2	Firms offering formal training, % firms	53.3	21 ●
5.1.3	R&D performed by business, %	n/a	n/a
5.1.4	R&D financed by business, %	n/a	n/a
5.1.5	GMAT mean score	431.1	114
5.1.6	GMAT test takers/mn pop. 20–34	42.5	89
5.2	Innovation linkages	33.8	75
5.2.1	University/industry research collaboration†	38.0	87
5.2.2	State of cluster development†	44.5	55 ●
5.2.3	R&D financed by abroad, %	n/a	n/a
5.2.4	JV–strategic alliance deals/tr PPP\$ GDP	6.4	100
5.2.5	PCT patent filings with foreign inventor, %	n/a	n/a
5.3	Knowledge absorption	23.6	131 ○
5.3.1	Royalty & license fees payments/th GDP	1.2	67
5.3.2	High-tech imports less re-imports, %	6.2	89
5.3.3	Computer & comm. service imports, %	13.0	117 ○
5.3.4	FDI net inflows, % GDP	3.1	56 ●
6	Knowledge & technology outputs	17.2	125 ○
6.1	Knowledge creation	14.8	98
6.1.1	Domestic resident patent ap/bn PPP\$ GDP	0.4	88
6.1.2	PCT resident patent ap/bn PPP\$ GDP	0.1	81
6.1.3	Domestic res utility model ap/bn PPP\$ GDP	n/a	n/a
6.1.4	Scientific & technical articles/bn PPP\$ GDP	0.1	139 ○
6.2	Knowledge impact	31.1	77
6.2.1	Growth rate of PPP\$ GDP/worker, %	3.4	43 ●
6.2.2	New businesses/th pop. 15–64	2.1	44
6.2.3	Computer software spending, % GDP	n/a	n/a
6.2.4	ISO 9001 quality certificates/bn PPP\$ GDP	1.4	104
6.3	Knowledge diffusion	5.7	133 ○
6.3.1	Royalty & license fees receipts/th GDP	n/a	n/a
6.3.2	High-tech exports less re-exports, %	2.1	61
6.3.3	Computer & comm. service exports, %	6.5	127 ○
6.3.4	FDI net outflows, % GDP	n/a	n/a
7	Creative outputs	37.3	40 ●
7.1	Creative intangibles	52.2	20 ●
7.1.1	Domestic res trademark reg/bn PPP\$ GDP	n/a	n/a
7.1.2	Madrid resident trademark reg/bn PPP\$ GDP	n/a	n/a
7.1.3	ICT & business model creation†	56.7	51 ●
7.1.4	ICT & organizational model creation†	47.7	70
7.2	Creative goods & services	25.5	57 ●
7.2.1	Recreation & culture consumption, %	2.2	80
7.2.2	National feature films/mn pop. 15–69	1.0	67
7.2.3	Paid-for dailies, circulation/th pop. 15–69	38.8	91
7.2.4	Creative goods exports, %	4.0	18 ●
7.2.5	Creative services exports, %	n/a	n/a
7.3	Online creativity	19.5	76
7.3.1	Generic top-level domains (TLDs)/th pop. 15–69	2.3	78
7.3.2	Country-code TLDs/th pop. 15–69	18.6	79
7.3.3	Wikipedia monthly edits/mn pop. 15–69	779.0	73
7.3.4	Video uploads on YouTube/pop. 15–69	53.0	72

Key indicators

Population (millions)	15.0
GDP per capita, PPP\$	8,335.1
GDP (US\$ billions)	65.3

	Score (0–100) or value (hard data)	Rank
Global Innovation Index 2012 (out of 141).....	28.5	98
Innovation Output Sub-Index	25.9	85
Innovation Input Sub-Index	31.2	109
Innovation Efficiency Index	0.8	31 ●
Global Innovation Index 2011 (out of 125)	93	
GII 2012 rank among GII 2011 economies (125)	93	

1	Institutions.....	34.4	134	○
1.1	Political environment	47.0	89	
1.1.1	Political stability*.....	50.1	102	
1.1.2	Government effectiveness*.....	23.2	111	
1.1.3	Press freedom*.....	67.6	81	
1.2	Regulatory environment.....	32.0	134	○
1.2.1	Regulatory quality*.....	22.7	134	○
1.2.2	Rule of law*.....	16.8	131	○
1.2.3	Cost of redundancy dismissal, salary weeks	36.1	130	○
1.3	Business environment	24.2	120	
1.3.1	Ease of starting a business*.....	5.7	132	○
1.3.2	Ease of resolving insolvency*.....	14.3	120	
1.3.3	Ease of paying taxes*.....	52.5	67	
2	Human capital & research.....	25.1	109	
2.1	Education.....	39.9	108	
2.1.1	Current expenditure on education, % GNI.....	1.4	134	○
2.1.2	Public expenditure/pupil, % GDP/cap.....	n/a	n/a	
2.1.3	School life expectancy, years.....	13.3	63	
2.1.4	PISA scales in reading, maths, & science.....	n/a	n/a	
2.1.5	Pupil-teacher ratio, secondary.....	22.4	102	
2.2	Tertiary education	23.6	92	
2.2.1	Tertiary enrolment, % gross.....	39.8	59	
2.2.2	Graduates in science & engineering, %	12.8	88	
2.2.3	Tertiary inbound mobility, %.....	n/a	n/a	
2.2.4	Gross tertiary outbound enrolment, %.....	0.7	86	
2.3	Research & development (R&D).....	11.8	122	
2.3.1	Researchers, headcounts/mn pop.....	186.6	85	
2.3.2	Gross expenditure on R&D, % GDP.....	0.3	74	
2.3.3	Quality of scientific research institutions†	28.4	115	
3	Infrastructure.....	31.3	77	
3.1	Information & communication technologies (ICT)	29.8	78	
3.1.1	ICT access*.....	38.0	82	
3.1.2	ICT use*.....	11.6	85	
3.1.3	Government's online service*.....	45.8	81	
3.1.4	E-participation*.....	23.7	59	
3.2	General infrastructure	31.4	95	
3.2.1	Electricity output, kWh/cap.....	1,182.3	89	
3.2.2	Electricity consumption, kWh/cap.....	1,167.6	87	
3.2.3	Quality of trade & transport infrastructure*	34.5	82	
3.2.4	Gross capital formation, % GDP	26.2	31	●
3.3	Ecological sustainability.....	32.8	61	
3.3.1	GDP/unit of energy use, 2000 PPP\$/kg oil eq.....	5.3	70	
3.3.2	Environmental performance*.....	60.6	30	●
3.3.3	ISO 14001 environmental certificates/bn PPP\$ GDP	1.2	57	●
4	Market sophistication	31.6	103	
4.1	Credit	29.6	75	
4.1.1	Ease of getting credit*.....	38.7	72	
4.1.2	Domestic credit to private sector, % GDP.....	30.9	93	
4.1.3	Microfinance gross loans, % GDP.....	3.5	16	

4.2 Investment.....	4.8	125	
4.2.1 Ease of protecting investors*.....	15.8	110	
4.2.2 Market capitalization, % GDP.....	8.9	95	
4.2.3 Total value of stocks traded, % GDP.....	0.3	89	
4.2.4 Venture capital deals/tr PPP\$ GDP.....	0.0	65 ○	
4.3 Trade & competition	60.4	84	
4.3.1 Applied tariff rate, weighted mean, %.....	6.0	88	
4.3.2 Non-agricultural mkt access weighted tariff, %.....	0.4	45 ●	
4.3.3 Imports of goods & services, % GDP.....	38.6	75	
4.3.4 Exports of goods & services, % GDP.....	32.9	82	
4.3.5 Intensity of local competition†	53.3	105	
5 Business sophistication	33.4	103	
5.1 Knowledge workers.....	42.3	78	
5.1.1 Knowledge-intensive employment, %.....	18.1	78	
5.1.2 Firms offering formal training, % firms.....	65.9	7 ●	
5.1.3 R&D performed by business, %.....	8.5	76	
5.1.4 R&D financed by business, %	8.5	73	
5.1.5 GMAT mean score.....	470.3	97	
5.1.6 GMAT test takers/mn pop. 20–34.....	49.7	80	
5.2 Innovation linkages	31.4	93	
5.2.1 University/industry research collaboration†	37.4	91	
5.2.2 State of cluster development†	35.5	94	
5.2.3 R&D financed by abroad, %.....	0.5	88 ○	
5.2.4 JV–strategic alliance deals/tr PPP\$ GDP	6.4	101	
5.2.5 PCT patent filings with foreign inventor, %.....	100.0	1 ●	
5.3 Knowledge absorption	26.6	116	
5.3.1 Royalty & license fees payments/th GDP.....	0.9	77	
5.3.2 High-tech imports less re-imports, %	9.5	56	
5.3.3 Computer & comm. service imports, %.....	19.0	104	
5.3.4 FDI net inflows, % GDP.....	0.3	127 ○	
6 Knowledge & technology outputs	18.4	115	
6.1 Knowledge creation.....	14.9	96	
6.1.1 Domestic resident patent ap/bn PPP\$ GDP	0.0	110 ○	
6.1.2 PCT resident patent ap/bn PPP\$ GDP.....	0.2	58	
6.1.3 Domestic res utility model ap/bn PPP\$ GDP.....	0.2	52	
6.1.4 Scientific & technical articles/bn PPP\$ GDP.....	0.6	127 ○	
6.2 Knowledge impact	29.1	87	
6.2.1 Growth rate of PPP\$ GDP/worker, %.....	0.8	96	
6.2.2 New businesses/th pop. 15–64.....	n/a	n/a	
6.2.3 Computer software spending, % GDP.....	0.1	64	
6.2.4 ISO 9001 quality certificates/bn PPP\$ GDP	7.3	58 ●	
6.3 Knowledge diffusion	11.0	127	○
6.3.1 Royalty & license fees receipts/th GDP.....	n/a	n/a	
6.3.2 High-tech exports less re-exports, %.....	0.3	97	
6.3.3 Computer & comm. service exports, %	18.0	96	
6.3.4 FDI net outflows, % GDP	n/a	n/a	
7 Creative outputs	33.5	65	
7.1 Creative intangibles.....	45.2	48	●
7.1.1 Domestic res trademark reg/bn PPP\$ GDP.....	92.9	14 ●	
7.1.2 Madrid resident trademark reg/bn PPP\$ GDP.....	n/a	n/a	
7.1.3 ICT & business model creation†	48.2	79	
7.1.4 ICT & organizational model creation†	43.4	82	
7.2 Creative goods & services	24.1	61	
7.2.1 Recreation & culture consumption, %.....	6.0	44	
7.2.2 National feature films/mn pop. 15–69.....	n/a	n/a	
7.2.3 Paid-for dailies, circulation/th pop. 15–69.....	75.7	67	
7.2.4 Creative goods exports, %.....	0.2	109	
7.2.5 Creative services exports, %.....	9.7	19 ●	
7.3 Online creativity.....	19.4	77	
7.3.1 Generic top-level domains (TLDs)/th pop. 15–69.....	2.2	80	
7.3.2 Country-code TLDs/th pop. 15–69.....	19.5	76	
7.3.3 Wikipedia monthly edits/mn pop. 15–69.....	738.2	74	
7.3.4 Video uploads on YouTube/pop. 15–69.....	52.2	73	

Key indicators

Population (millions)	79.4
GDP per capita, PPP\$	6,504.6
GDP (US\$ billions)	231.9

	Score (0–100) or value (hard data)	Rank
Global Innovation Index 2012 (out of 141).....	27.9	103
Innovation Output Sub-Index	23.3	99
Innovation Input Sub-Index	32.5	104
Innovation Efficiency Index	0.7	78
Global Innovation Index 2011 (out of 125)	87	
GII 2012 rank among GII 2011 economies (125)	97	

1	Institutions.....	40.4	116
1.1	Political environment	33.5	130 ○
1.1.1	Political stability*.....	43.4	115
1.1.2	Government effectiveness*.....	29.6	91
1.1.3	Press freedom*.....	27.4	132 ○
1.2	Regulatory environment.....	44.5	126 ○
1.2.1	Regulatory quality*.....	47.1	84
1.2.2	Rule of law*.....	44.9	64
1.2.3	Cost of redundancy dismissal, salary weeks.....	36.8	131 ○
1.3	Business environment	43.3	86
1.3.1	Ease of starting a business*.....	88.4	17 ●
1.3.2	Ease of resolving insolvency*.....	15.8	118 ○
1.3.3	Ease of paying taxes*.....	25.8	104
2	Human capital & research.....	25.9	108
2.1	Education.....	46.2	86
2.1.1	Current expenditure on education, % GNI	4.4	58 ●
2.1.2	Public expenditure/pupil, % GDP/cap.....	17.7	77
2.1.3	School life expectancy, years.....	11.7	92
2.1.4	PISA scales in reading, maths, & science.....	n/a	n/a
2.1.5	Pupil-teacher ratio, secondary	17.1	81
2.2	Tertiary education	17.4	113
2.2.1	Tertiary enrolment, % gross.....	30.4	72
2.2.2	Graduates in science & engineering, %	n/a	n/a
2.2.3	Tertiary inbound mobility, %.....	1.4	67
2.2.4	Gross tertiary outbound enrolment, %	0.1	136 ○
2.3	Research & development (R&D).....	14.0	110
2.3.1	Researchers, headcounts/mn pop.	1,017.5	55
2.3.2	Gross expenditure on R&D, % GDP.....	0.2	83
2.3.3	Quality of scientific research institutions†	30.1	110
3	Infrastructure.....	33.6	70
3.1	Information & communication technologies (ICT).....	45.3	49 ●
3.1.1	ICT access*.....	40.7	73
3.1.2	ICT use*.....	12.0	84
3.1.3	Government's online service*.....	60.1	42 ●
3.1.4	E-participation*.....	68.4	15 ●
3.2	General infrastructure	25.7	122 ○
3.2.1	Electricity output, kWh/cap.....	1,809.9	79
3.2.2	Electricity consumption, kWh/cap.....	1,487.3	81
3.2.3	Quality of trade & transport infrastructure*.....	30.5	102
3.2.4	Gross capital formation, % GDP.....	18.9	103
3.3	Ecological sustainability	29.9	70
3.3.1	GDP/unit of energy use, 2000 PPP\$/kg oil eq.....	5.0	73
3.3.2	Environmental performance*.....	55.2	58
3.3.3	ISO 14001 environmental certificates/bn PPP\$ GDP.....	1.0	62
4	Market sophistication	30.5	108
4.1	Credit	16.3	105
4.1.1	Ease of getting credit*.....	38.7	72
4.1.2	Domestic credit to private sector, % GDP.....	33.1	89
4.1.3	Microfinance gross loans, % GDP.....	0.1	71

4.2	Investment.....	24.6	71
4.2.1	Ease of protecting investors*.....	46.7	60
4.2.2	Market capitalization, % GDP.....	37.7	56
4.2.3	Total value of stocks traded, % GDP.....	17.0	39 ●
4.2.4	Venture capital deals/tr PPP\$ GDP.....	3.9	58 ●
4.3	Trade & competition	50.6	121 ○
4.3.1	Applied tariff rate, weighted mean, %.....	8.1	108
4.3.2	Non-agricultural mkt access weighted tariff, %.....	1.5	85
4.3.3	Imports of goods & services, % GDP.....	26.1	122 ○
4.3.4	Exports of goods & services, % GDP.....	21.3	122 ○
4.3.5	Intensity of local competition†	52.3	110
5	Business sophistication	31.9	114
5.1	Knowledge workers.....	42.8	75
5.1.1	Knowledge-intensive employment, %.....	30.3	41 ●
5.1.2	Firms offering formal training, % firms.....	21.7	87
5.1.3	R&D performed by business, %.....	n/a	n/a
5.1.4	R&D financed by business, %	n/a	n/a
5.1.5	GMAT mean score.....	470.5	96
5.1.6	GMAT test takers/mn pop. 20–34.....	45.4	82
5.2	Innovation linkages	26.8	116
5.2.1	University/industry research collaboration†	26.6	122 ○
5.2.2	State of cluster development†	39.2	77
5.2.3	R&D financed by abroad, %.....	n/a	n/a
5.2.4	JV–strategic alliance deals/tr PPP\$ GDP	19.5	68
5.2.5	PCT patent filings with foreign inventor, %.....	20.0	77
5.3	Knowledge absorption	26.2	119 ○
5.3.1	Royalty & license fees payments/th GDP.....	1.0	71
5.3.2	High-tech imports less re-imports, %	5.4	95
5.3.3	Computer & comm. service imports, %.....	24.1	87
5.3.4	FDI net inflows, % GDP.....	2.9	61
6	Knowledge & technology outputs	22.6	92
6.1	Knowledge creation.....	21.0	72
6.1.1	Domestic resident patent ap/bn PPP\$ GDP	1.2	65
6.1.2	PCT resident patent ap/bn PPP\$ GDP	0.1	82
6.1.3	Domestic res utility model ap/bn PPP\$ GDP.....	n/a	n/a
6.1.4	Scientific & technical articles/bn PPP\$ GDP.....	4.8	58 ●
6.2	Knowledge impact	26.1	97
6.2.1	Growth rate of PPP\$ GDP/worker, %.....	2.9	52
6.2.2	New businesses/th pop. 15–64.....	0.1	93 ○
6.2.3	Computer software spending, % GDP.....	0.1	56
6.2.4	ISO 9001 quality certificates/bn PPP\$ GDP	4.4	71
6.3	Knowledge diffusion	20.6	104
6.3.1	Royalty & license fees receipts/th GDP.....	0.9	33 ●
6.3.2	High-tech exports less re-exports, %.....	0.4	92
6.3.3	Computer & comm. service exports, %	16.8	100
6.3.4	FDI net outflows, % GDP	0.5	52
7	Creative outputs	24.0	106
7.1	Creative intangibles.....	31.3	106
7.1.1	Domestic res trademark reg/bn PPP\$ GDP.....	n/a	n/a
7.1.2	Madrid resident trademark reg/bn PPP\$ GDP.....	0.1	55 ○
7.1.3	ICT & business model creation†	51.1	70
7.1.4	ICT & organizational model creation†	41.4	92
7.2	Creative goods & services	21.2	68
7.2.1	Recreation & culture consumption, %.....	2.0	83
7.2.2	National feature films/mn pop. 15–69.....	0.9	69
7.2.3	Paid-for dailies, circulation/th pop. 15–69.....	77.4	66
7.2.4	Creative goods exports, %.....	4.3	17 ●
7.2.5	Creative services exports, %.....	1.0	71
7.3	Online creativity.....	12.2	104
7.3.1	Generic top-level domains (TLDs)/th pop. 15–69.....	0.6	108
7.3.2	Country-code TLDs/th pop. 15–69.....	1.5	120 ○
7.3.3	Wikipedia monthly edits/mn pop. 15–69.....	245.1	94
7.3.4	Video uploads on YouTube/pop. 15–69.....	45.6	88

Key indicators

Population (millions)	5.9
GDP per capita, PPP\$	7,595.3
GDP (US\$ billions)	22.6

	Score (0–100) or value (hard data)	Rank
Global Innovation Index 2012 (out of 141).....	29.5	93
Innovation Output Sub-Index	24.5	91
Innovation Input Sub-Index	34.6	94
Innovation Efficiency Index	0.7	81
Global Innovation Index 2011 (out of 125)	90	
GII 2012 rank among GII 2011 economies (125)	88	

1	Institutions.....	50.6	83
1.1	Political environment	65.0	49
1.1.1	Political stability*.....	67.0	61
1.1.2	Government effectiveness*.....	41.1	67
1.1.3	Press freedom*.....	87.0	33 ●
1.2	Regulatory environment.....	56.7	100
1.2.1	Regulatory quality*.....	61.2	58
1.2.2	Rule of law*.....	24.6	116
1.2.3	Cost of redundancy dismissal, salary weeks	22.9	103
1.3	Business environment	30.2	107
1.3.1	Ease of starting a business*.....	25.1	105
1.3.2	Ease of resolving insolvency*.....	41.0	83
1.3.3	Ease of paying taxes*.....	24.4	106
2	Human capital & research.....	23.8	113
2.1	Education.....	33.7	121
2.1.1	Current expenditure on education, % GNI	3.0	105
2.1.2	Public expenditure/pupil, % GDP/cap.....	10.6	105
2.1.3	School life expectancy, years.....	12.0	87
2.1.4	PISA scales in reading, maths, & science	n/a	n/a
2.1.5	Pupil-teacher ratio, secondary	24.4	109
2.2	Tertiary education	30.3	76
2.2.1	Tertiary enrolment, % gross.....	23.4	82
2.2.2	Graduates in science & engineering, %	26.4	18 ●
2.2.3	Tertiary inbound mobility, %.....	0.5	87
2.2.4	Gross tertiary outbound enrolment, %	0.5	98
2.3	Research & development (R&D).....	7.4	134 ○
2.3.1	Researchers, headcounts/mn pop.	73.9	104
2.3.2	Gross expenditure on R&D, % GDP.....	0.1	97
2.3.3	Quality of scientific research institutions†	19.6	126 ○
3	Infrastructure.....	31.6	76
3.1	Information & communication technologies (ICT).....	41.5	55
3.1.1	ICT access*.....	35.3	89
3.1.2	ICT use*	8.2	93
3.1.3	Government's online service*.....	67.3	32 ●
3.1.4	E-participation*.....	55.3	28 ●
3.2	General infrastructure	22.4	131 ○
3.2.1	Electricity output, kWh/cap.....	993.8	92
3.2.2	Electricity consumption, kWh/cap.....	844.7	96
3.2.3	Quality of trade & transport infrastructure*	36.0	77
3.2.4	Gross capital formation, % GDP.....	13.3	136 ○
3.3	Ecological sustainability	30.9	68
3.3.1	GDP/unit of energy use, 2000 PPP\$/kg oil eq.....	6.8	40
3.3.2	Environmental performance*.....	52.1	72
3.3.3	ISO 14001 environmental certificates/bn PPP\$ GDP	0.3	99
4	Market sophistication	33.1	97
4.1	Credit	30.7	67
4.1.1	Ease of getting credit*	57.7	43
4.1.2	Domestic credit to private sector, % GDP.....	41.0	79
4.1.3	Microfinance gross loans, % GDP	1.8	23 ●

4.2	Investment.....	2.2	136 ○
4.2.1	Ease of protecting investors*.....	1.4	136 ○
4.2.2	Market capitalization, % GDP.....	19.4	78
4.2.3	Total value of stocks traded, % GDP.....	0.9	72
4.2.4	Venture capital deals/tr PPP\$ GDP.....	0.0	65 ○
4.3	Trade & competition	66.3	56
4.3.1	Applied tariff rate, weighted mean, %.....	5.5	84
4.3.2	Non-agricultural mkt access weighted tariff, %.....	0.1	19 ●
4.3.3	Imports of goods & services, % GDP	43.6	61
4.3.4	Exports of goods & services, % GDP	26.2	102
4.3.5	Intensity of local competition†	71.7	38 ●
5	Business sophistication	33.7	98
5.1	Knowledge workers.....	41.6	82
5.1.1	Knowledge-intensive employment, %.....	12.5	93
5.1.2	Firms offering formal training, % firms.....	61.0	13 ●
5.1.3	R&D performed by business, %.....	n/a	n/a
5.1.4	R&D financed by business, %	0.7	87 ○
5.1.5	GMAT mean score.....	505.0	73
5.1.6	GMAT test takers/mn pop. 20–34.....	32.8	99
5.2	Innovation linkages	33.5	80
5.2.1	University/industry research collaboration†	35.1	108
5.2.2	State of cluster development†	37.0	87
5.2.3	R&D financed by abroad, %.....	4.5	62
5.2.4	JV–strategic alliance deals/tr PPP\$ GDP	8.9	91
5.2.5	PCT patent filings with foreign inventor, %.....	100.0	1 ●
5.3	Knowledge absorption	26.1	120
5.3.1	Royalty & license fees payments/th GDP.....	1.5	57
5.3.2	High-tech imports less re-imports, %	8.3	66
5.3.3	Computer & comm. service imports, %.....	17.5	108
5.3.4	FDI net inflows, % GDP.....	0.0	133 ○
6	Knowledge & technology outputs	19.5	109
6.1	Knowledge creation.....	14.3	99
6.1.1	Domestic resident patent ap/bn PPP\$ GDP	n/a	n/a
6.1.2	PCT resident patent ap/bn PPP\$ GDP	0.0	102 ○
6.1.3	Domestic res utility model ap/bn PPP\$ GDP.....	n/a	n/a
6.1.4	Scientific & technical articles/bn PPP\$ GDP.....	0.1	138 ○
6.2	Knowledge impact	21.1	115
6.2.1	Growth rate of PPP\$ GDP/worker, %.....	n/a	n/a
6.2.2	New businesses/th pop. 15–64.....	1.2	58
6.2.3	Computer software spending, % GDP.....	n/a	n/a
6.2.4	ISO 9001 quality certificates/bn PPP\$ GDP	3.3	78
6.3	Knowledge diffusion	23.1	86
6.3.1	Royalty & license fees receipts/th GDP.....	0.0	87
6.3.2	High-tech exports less re-exports, %.....	5.3	40
6.3.3	Computer & comm. service exports, %	22.1	86
6.3.4	FDI net outflows, % GDP	0.3	65
7	Creative outputs	29.4	80
7.1	Creative intangibles.....	43.5	58
7.1.1	Domestic res trademark reg/bn PPP\$ GDP.....	n/a	n/a
7.1.2	Madrid resident trademark reg/bn PPP\$ GDP.....	n/a	n/a
7.1.3	ICT & business model creation†	54.8	55
7.1.4	ICT & organizational model creation†	32.2	118
7.2	Creative goods & services	14.6	85
7.2.1	Recreation & culture consumption, %.....	n/a	n/a
7.2.2	National feature films/mn pop. 15–69.....	0.3	92 ○
7.2.3	Paid-for dailies, circulation/th pop. 15–69.....	72.5	68
7.2.4	Creative goods exports, %.....	2.6	33 ●
7.2.5	Creative services exports, %.....	0.1	103 ○
7.3	Online creativity.....	16.1	91
7.3.1	Generic top-level domains (TLDs)/th pop. 15–69.....	1.0	97
7.3.2	Country-code TLDs/th pop. 15–69.....	12.0	91
7.3.3	Wikipedia monthly edits/mn pop. 15–69.....	255.1	93
7.3.4	Video uploads on YouTube/pop. 15–69.....	50.2	77

Key indicators

Population (millions)	1.3
GDP per capita, PPP\$	20,182.1
GDP (US\$ billions)	22.5

	Score (0–100) or value (hard data)	Rank
Global Innovation Index 2012 (out of 141).....	55.3	19
Innovation Output Sub-Index	53.3	8 ●
Innovation Input Sub-Index	57.4	24
Innovation Efficiency Index	0.9	8 ●
Global Innovation Index 2011 (out of 125)	23	
GII 2012 rank among GII 2011 economies (125)	18	

1	Institutions.....	79.9	22
1.1	Political environment	84.3	18
1.1.1	Political stability*.....	80.7	36
1.1.2	Government effectiveness*.....	73.0	24
1.1.3	Press freedom*.....	99.3	3 ●
1.2	Regulatory environment.....	86.8	23
1.2.1	Regulatory quality*.....	88.5	17
1.2.2	Rule of law*.....	78.2	26
1.2.3	Cost of redundancy dismissal, salary weeks.....	12.9	53
1.3	Business environment	68.5	32
1.3.1	Ease of starting a business*.....	76.9	33
1.3.2	Ease of resolving insolvency*.....	53.2	66
1.3.3	Ease of paying taxes*.....	75.5	34
2	Human capital & research.....	50.0	28
2.1	Education.....	63.7	22
2.1.1	Current expenditure on education, % GNI	4.4	56
2.1.2	Public expenditure/pupil, % GDP/cap.....	24.8	28
2.1.3	School life expectancy, years.....	15.8	21
2.1.4	PISA scales in reading, maths, & science.....	513.6	12
2.1.5	Pupil-teacher ratio, secondary	9.4	20
2.2	Tertiary education	40.8	49
2.2.1	Tertiary enrolment, % gross.....	62.7	25
2.2.2	Graduates in science & engineering, %	19.4	58 ○
2.2.3	Tertiary inbound mobility, %.....	1.6	60 ○
2.2.4	Gross tertiary outbound enrolment, %	3.5	25
2.3	Research & development (R&D).....	45.6	27
2.3.1	Researchers, headcounts/mn pop.	5,383.9	11
2.3.2	Gross expenditure on R&D, % GDP.....	1.4	26
2.3.3	Quality of scientific research institutions†	63.3	26
3	Infrastructure.....	54.9	19
3.1	Information & communication technologies (ICT).....	67.2	20
3.1.1	ICT access*.....	69.1	31
3.1.2	ICT use*.....	40.9	36
3.1.3	Government's online service*.....	82.4	18
3.1.4	E-participation*.....	76.3	8 ●
3.2	General infrastructure	40.4	47
3.2.1	Electricity output, kWh/cap.....	9,696.3	14
3.2.2	Electricity consumption, kWh/cap.....	5,951.5	32
3.2.3	Quality of trade & transport infrastructure*.....	43.8	50
3.2.4	Gross capital formation, % GDP.....	20.0	92 ○
3.3	Ecological sustainability	57.2	9 ●
3.3.1	GDP/unit of energy use, 2000 PPP\$/kg oil eq.....	4.0	88 ○
3.3.2	Environmental performance*.....	56.1	52
3.3.3	ISO 14001 environmental certificates/bn PPP\$ GDP.....	12.4	5 ●
4	Market sophistication	52.8	27
4.1	Credit	52.0	24
4.1.1	Ease of getting credit*.....	71.6	35
4.1.2	Domestic credit to private sector, % GDP.....	97.2	32
4.1.3	Microfinance gross loans, % GDP.....	n/a	n/a

4.2	Investment.....	31.7	51
4.2.1	Ease of protecting investors*.....	58.2	48
4.2.2	Market capitalization, % GDP.....	12.1	91 ○
4.2.3	Total value of stocks traded, % GDP.....	1.7	64 ○
4.2.4	Venture capital deals/tr PPP\$ GDP.....	37.1	32
4.3	Trade & competition	74.7	16
4.3.1	Applied tariff rate, weighted mean, %.....	1.6	11
4.3.2	Non-agricultural mkt access weighted tariff, %.....	2.0	92 ○
4.3.3	Imports of goods & services, % GDP.....	71.6	18
4.3.4	Exports of goods & services, % GDP.....	78.3	14
4.3.5	Intensity of local competition†	73.3	27
5	Business sophistication	49.5	30
5.1	Knowledge workers.....	70.0	23
5.1.1	Knowledge-intensive employment, %.....	38.8	23
5.1.2	Firms offering formal training, % firms.....	69.3	5 ●
5.1.3	R&D performed by business, %.....	44.7	38
5.1.4	R&D financed by business, %	38.4	42
5.1.5	GMAT mean score.....	560.9	29
5.1.6	GMAT test takers/mn pop. 20–34.....	162.0	36
5.2	Innovation linkages	33.1	84 ○
5.2.1	University/industry research collaboration†	55.6	32
5.2.2	State of cluster development†	41.7	65 ○
5.2.3	R&D financed by abroad, %.....	11.4	28
5.2.4	JV–strategic alliance deals/tr PPP\$ GDP	12.7	80 ○
5.2.5	PCT patent filings with foreign inventor, %.....	19.5	83 ○
5.3	Knowledge absorption	45.3	31
5.3.1	Royalty & license fees payments/th GDP.....	3.1	32
5.3.2	High-tech imports less re-imports, %	14.3	24
5.3.3	Computer & comm. service imports, %.....	40.3	36
5.3.4	FDI net inflows, % GDP.....	8.0	21
6	Knowledge & technology outputs	53.8	13
6.1	Knowledge creation.....	55.3	18
6.1.1	Domestic resident patent ap/bn PPP\$ GDP	4.5	34
6.1.2	PCT resident patent ap/bn PPP\$ GDP.....	1.3	28
6.1.3	Domestic res utility model ap/bn PPP\$ GDP.....	6.4	8
6.1.4	Scientific & technical articles/bn PPP\$ GDP.....	21.8	11 ●
6.2	Knowledge impact	70.4	2 ●
6.2.1	Growth rate of PPP\$ GDP/worker, %.....	8.6	4 ●
6.2.2	New businesses/th pop. 15–64.....	8.1	7 ●
6.2.3	Computer software spending, % GDP.....	n/a	n/a
6.2.4	ISO 9001 quality certificates/bn PPP\$ GDP	31.2	12 ●
6.3	Knowledge diffusion	35.6	39
6.3.1	Royalty & license fees receipts/th GDP.....	1.1	30
6.3.2	High-tech exports less re-exports, %.....	14.0	23
6.3.3	Computer & comm. service exports, %	34.3	53
6.3.4	FDI net outflows, % GDP.....	0.7	47
7	Creative outputs	52.8	9 ●
7.1	Creative intangibles.....	51.6	22
7.1.1	Domestic res trademark reg/bn PPP\$ GDP.....	77.5	19
7.1.2	Madrid resident trademark reg/bn PPP\$ GDP.....	1.6	13
7.1.3	ICT & business model creation†	71.4	9 ●
7.1.4	ICT & organizational model creation†	65.1	17
7.2	Creative goods & services	42.2	16
7.2.1	Recreation & culture consumption, %.....	7.7	26
7.2.2	National feature films/mn pop. 15–69.....	10.3	9
7.2.3	Paid-for dailies, circulation/th pop. 15–69.....	233.6	19
7.2.4	Creative goods exports, %.....	3.3	24
7.2.5	Creative services exports, %.....	5.1	39
7.3	Online creativity.....	65.7	11 ●
7.3.1	Generic top-level domains (TLDs)/th pop. 15–69.....	26.5	31
7.3.2	Country-code TLDs/th pop. 15–69.....	59.3	22
7.3.3	Wikipedia monthly edits/mn pop. 15–69.....	19,654.9	1 ●
7.3.4	Video uploads on YouTube/pop. 15–69.....	76.9	12

Key indicators

Population (millions)	86.8
GDP per capita, PPP\$	1,092.7
GDP (US\$ billions)	30.5

	Score (0–100) or value (hard data)	Rank
Global Innovation Index 2012 (out of 141).....	23.3	131
Innovation Output Sub-Index	18.1	128
Innovation Input Sub-Index	28.4	124
Innovation Efficiency Index	0.6	108
Global Innovation Index 2011 (out of 125)		121
GII 2012 rank among GII 2011 economies (125)		119

1	Institutions.....	48.8	94
1.1	Political environment	37.0	125
1.1.1	Political stability*.....	24.1	137
1.1.2	Government effectiveness*.....	31.8	87
1.1.3	Press freedom*.....	55.0	102
1.2	Regulatory environment.....	51.8	114
1.2.1	Regulatory quality*.....	29.3	126
1.2.2	Rule of law*.....	27.7	106
1.2.3	Cost of redundancy dismissal, salary weeks.....	20.6	90
1.3	Business environment	57.5	54 ●
1.3.1	Ease of starting a business*.....	48.2	73
1.3.2	Ease of resolving insolvency*.....	44.6	78
1.3.3	Ease of paying taxes*.....	79.8	28 ●
2	Human capital & research.....	19.0	128
2.1	Education.....	20.3	139 ○
2.1.1	Current expenditure on education, % GNI	2.9	110
2.1.2	Public expenditure/pupil, % GDP/cap.....	20.4	55 ●
2.1.3	School life expectancy, years.....	8.7	127
2.1.4	PISA scales in reading, maths, & science.....	n/a	n/a
2.1.5	Pupil-teacher ratio, secondary	43.1	132 ○
2.2	Tertiary education	23.1	94
2.2.1	Tertiary enrolment, % gross.....	5.5	121
2.2.2	Graduates in science & engineering, %	20.9	51 ●
2.2.3	Tertiary inbound mobility, %.....	n/a	n/a
2.2.4	Gross tertiary outbound enrolment, %	0.1	140 ○
2.3	Research & development (R&D).....	13.7	113
2.3.1	Researchers, headcounts/mn pop.	30.6	117
2.3.2	Gross expenditure on R&D, % GDP.....	0.2	89
2.3.3	Quality of scientific research institutions†.....	37.3	90
3	Infrastructure.....	22.9	114
3.1	Information & communication technologies (ICT).....	24.2	96
3.1.1	ICT access*.....	15.3	137 ○
3.1.2	ICT use*	0.3	138 ○
3.1.3	Government's online service*.....	47.1	77
3.1.4	E-participation*.....	34.2	44 ●
3.2	General infrastructure	21.2	135
3.2.1	Electricity output, kWh/cap.....	49.6	122
3.2.2	Electricity consumption, kWh/cap.....	44.9	124 ○
3.2.3	Quality of trade & transport infrastructure*.....	19.3	134
3.2.4	Gross capital formation, % GDP.....	21.5	78
3.3	Ecological sustainability	23.2	98
3.3.1	GDP/unit of energy use, 2000 PPP\$/kg oil eq.....	3.4	98
3.3.2	Environmental performance*.....	52.7	67
3.3.3	ISO 14001 environmental certificates/bn PPP\$ GDP	0.2	115
4	Market sophistication	22.3	128
4.1	Credit	11.5	118
4.1.1	Ease of getting credit*	15.3	112
4.1.2	Domestic credit to private sector, % GDP.....	17.8	123
4.1.3	Microfinance gross loans, % GDP.....	1.3	32 ●

4.2	Investment.....	11.2	109
4.2.1	Ease of protecting investors*.....	22.3	100
4.2.2	Market capitalization, % GDP.....	n/a	n/a
4.2.3	Total value of stocks traded, % GDP.....	n/a	n/a
4.2.4	Venture capital deals/tr PPP\$ GDP.....	0.0	65 ○
4.3	Trade & competition	44.3	134
4.3.1	Applied tariff rate, weighted mean, %.....	10.5	125
4.3.2	Non-agricultural mkt access weighted tariff, %.....	1.9	91
4.3.3	Imports of goods & services, % GDP.....	32.5	97
4.3.4	Exports of goods & services, % GDP.....	11.4	138
4.3.5	Intensity of local competition†	49.5	121
5	Business sophistication	29.2	125
5.1	Knowledge workers.....	30.1	113
5.1.1	Knowledge-intensive employment, %.....	12.4	94
5.1.2	Firms offering formal training, % firms.....	38.2	46 ●
5.1.3	R&D performed by business, %.....	n/a	n/a
5.1.4	R&D financed by business, %	n/a	n/a
5.1.5	GMAT mean score.....	431.8	113
5.1.6	GMAT test takers/mn pop. 20–34.....	5.4	131
5.2	Innovation linkages	35.2	69 ●
5.2.1	University/industry research collaboration†	35.5	106
5.2.2	State of cluster development†	32.7	106
5.2.3	R&D financed by abroad, %.....	27.0	10 ●
5.2.4	JV–strategic alliance deals/tr PPP\$ GDP	0.0	114 ○
5.2.5	PCT patent filings with foreign inventor, %.....	n/a	n/a
5.3	Knowledge absorption	22.4	137
5.3.1	Royalty & license fees payments/th GDP.....	0.0	113
5.3.2	High-tech imports less re-imports, %	5.2	97
5.3.3	Computer & comm. service imports, %.....	21.8	94
5.3.4	FDI net inflows, % GDP.....	0.6	119
6	Knowledge & technology outputs	13.6	136
6.1	Knowledge creation.....	5.8	118
6.1.1	Domestic resident patent ap/bn PPP\$ GDP	0.2	99
6.1.2	PCT resident patent ap/bn PPP\$ GDP.....	n/a	n/a
6.1.3	Domestic res utility model ap/bn PPP\$ GDP.....	1.2	31 ●
6.1.4	Scientific & technical articles/bn PPP\$ GDP.....	2.2	79
6.2	Knowledge impact	26.8	93
6.2.1	Growth rate of PPP\$ GDP/worker, %.....	4.8	23 ●
6.2.2	New businesses/th pop. 15–64.....	0.0	99
6.2.3	Computer software spending, % GDP.....	n/a	n/a
6.2.4	ISO 9001 quality certificates/bn PPP\$ GDP	0.3	131
6.3	Knowledge diffusion	8.1	130
6.3.1	Royalty & license fees receipts/th GDP.....	0.0	93
6.3.2	High-tech exports less re-exports, %.....	0.2	102
6.3.3	Computer & comm. service exports, %	19.8	92
6.3.4	FDI net outflows, % GDP	n/a	n/a
7	Creative outputs	22.7	111
7.1	Creative intangibles.....	44.4	52 ●
7.1.1	Domestic res trademark reg/bn PPP\$ GDP.....	n/a	n/a
7.1.2	Madrid resident trademark reg/bn PPP\$ GDP.....	n/a	n/a
7.1.3	ICT & business model creation†	36.3	121
7.1.4	ICT & organizational model creation†	52.5	52 ●
7.2	Creative goods & services	1.9	133
7.2.1	Recreation & culture consumption, %.....	n/a	n/a
7.2.2	National feature films/mn pop. 15–69.....	n/a	n/a
7.2.3	Paid-for dailies, circulation/th pop. 15–69.....	2.0	131
7.2.4	Creative goods exports, %.....	0.3	97
7.2.5	Creative services exports, %.....	0.0	106
7.3	Online creativity.....	0.1	141 ○
7.3.1	Generic top-level domains (TLDs)/th pop. 15–69.....	0.0	141 ○
7.3.2	Country-code TLDs/th pop. 15–69.....	0.3	131
7.3.3	Wikipedia monthly edits/mn pop. 15–69.....	1.8	126 ○
7.3.4	Video uploads on YouTube/pop. 15–69.....	0.0	139 ○

Key indicators

Population (millions)	0.9
GDP per capita, PPP\$	4,624.5
GDP (US\$ billions)	3.4

	Score (0–100) or value (hard data)	Rank
Global Innovation Index 2012 (out of 141).....	27.9	101
Innovation Output Sub-Index	18.9	124 ○
Innovation Input Sub-Index	37.0	84
Innovation Efficiency Index	0.5	133 ○
Global Innovation Index 2011 (out of 125)	n/a	
GII 2012 rank among GII 2011 economies (125)	n/a	

1	Institutions.....	49.8	87
1.1	Political environment	46.5	93
1.1.1	Political stability*.....	61.7	79
1.1.2	Government effectiveness*.....	21.6	115
1.1.3	Press freedom*.....	56.1	92
1.2	Regulatory environment.....	62.9	81
1.2.1	Regulatory quality*.....	34.5	119 ○
1.2.2	Rule of law*.....	23.8	120 ○
1.2.3	Cost of redundancy dismissal, salary weeks.....	9.7	33 ●
1.3	Business environment	40.0	95
1.3.1	Ease of starting a business*.....	38.8	86
1.3.2	Ease of resolving insolvency*.....	23.0	108
1.3.3	Ease of paying taxes*.....	58.2	59
2	Human capital & research.....	48.9	32 ●
2.1	Education.....	53.8	61
2.1.1	Current expenditure on education, % GNI	6.0	19 ●
2.1.2	Public expenditure/pupil, % GDP/cap.....	21.3	48
2.1.3	School life expectancy, years.....	13.0	73
2.1.4	PISA scales in reading, maths, & science.....	n/a	n/a
2.1.5	Pupil-teacher ratio, secondary	18.7	92
2.2	Tertiary education	44.0	37 ●
2.2.1	Tertiary enrolment, % gross.....	16.1	95
2.2.2	Graduates in science & engineering, %	n/a	n/a
2.2.3	Tertiary inbound mobility, %.....	32.9	4 ●
2.2.4	Gross tertiary outbound enrolment, %	2.3	42 ●
2.3	Research & development (R&D).....	n/a	n/a
2.3.1	Researchers, headcounts/mn pop.	n/a	n/a
2.3.2	Gross expenditure on R&D, % GDP.....	n/a	n/a
2.3.3	Quality of scientific research institutions†	n/a	n/a
3	Infrastructure.....	21.4	122 ○
3.1	Information & communication technologies (ICT).....	22.8	98
3.1.1	ICT access*.....	40.9	71
3.1.2	ICT use*.....	6.4	101
3.1.3	Government's online service*.....	36.0	102
3.1.4	E-participation*.....	7.9	98
3.2	General infrastructure	37.5	62
3.2.1	Electricity output, kWh/cap.....	n/a	n/a
3.2.2	Electricity consumption, kWh/cap.....	n/a	n/a
3.2.3	Quality of trade & transport infrastructure*.....	24.5	124 ○
3.2.4	Gross capital formation, % GDP.....	24.4	47 ●
3.3	Ecological sustainability	3.8	128 ○
3.3.1	GDP/unit of energy use, 2000 PPP\$/kg oil eq.....	n/a	n/a
3.3.2	Environmental performance*.....	n/a	n/a
3.3.3	ISO 14001 environmental certificates/bn PPP\$ GDP	0.5	79
4	Market sophistication	38.1	70
4.1	Credit	33.3	57
4.1.1	Ease of getting credit*.....	50.4	62
4.1.2	Domestic credit to private sector, % GDP.....	52.4	60
4.1.3	Microfinance gross loans, % GDP.....	n/a	n/a

4.2	Investment.....	20.9	81
4.2.1	Ease of protecting investors*.....	66.9	35 ●
4.2.2	Market capitalization, % GDP.....	46.7	94
4.2.3	Total value of stocks traded, % GDP.....	0.2	94 ○
4.2.4	Venture capital deals/tr PPP\$ GDP.....	0.0	65 ○
4.3	Trade & competition	60.2	88
4.3.1	Applied tariff rate, weighted mean, %.....	11.0	129 ○
4.3.2	Non-agricultural mkt access weighted tariff, %.....	0.6	60
4.3.3	Imports of goods & services, % GDP.....	64.4	30 ●
4.3.4	Exports of goods & services, % GDP.....	52.5	40 ●
4.3.5	Intensity of local competition†	n/a	n/a
5	Business sophistication	26.6	132 ○
5.1	Knowledge workers.....	57.1	40 ●
5.1.1	Knowledge-intensive employment, %.....	n/a	n/a
5.1.2	Firms offering formal training, % firms.....	61.0	12 ●
5.1.3	R&D performed by business, %.....	n/a	n/a
5.1.4	R&D financed by business, %	n/a	n/a
5.1.5	GMAT mean score.....	448.0	107
5.1.6	GMAT test takers/mn pop. 20–34.....	36.5	97
5.2	Innovation linkages	0.0	140 ○
5.2.1	University/industry research collaboration†	n/a	n/a
5.2.2	State of cluster development†	n/a	n/a
5.2.3	R&D financed by abroad, %.....	n/a	n/a
5.2.4	JV-strategic alliance deals/tr PPP\$ GDP	0.0	114 ○
5.2.5	PCT patent filings with foreign inventor, %.....	n/a	n/a
5.3	Knowledge absorption	22.6	136 ○
5.3.1	Royalty & license fees payments/th GDP.....	0.3	102 ○
5.3.2	High-tech imports less re-imports, %	5.1	100 ○
5.3.3	Computer & comm. service imports, %.....	17.4	109
5.3.4	FDI net inflows, % GDP.....	4.0	45 ●
6	Knowledge & technology outputs	22.9	88
6.1	Knowledge creation.....	25.7	61
6.1.1	Domestic resident patent ap/bn PPP\$ GDP	n/a	n/a
6.1.2	PCT resident patent ap/bn PPP\$ GDP.....	n/a	n/a
6.1.3	Domestic res utility model ap/bn PPP\$ GDP.....	n/a	n/a
6.1.4	Scientific & technical articles/bn PPP\$ GDP.....	7.9	41 ●
6.2	Knowledge impact	28.3	90
6.2.1	Growth rate of PPP\$ GDP/worker, %.....	n/a	n/a
6.2.2	New businesses/th pop. 15–64.....	n/a	n/a
6.2.3	Computer software spending, % GDP.....	n/a	n/a
6.2.4	ISO 9001 quality certificates/bn PPP\$ GDP	2.5	89
6.3	Knowledge diffusion	14.7	123 ○
6.3.1	Royalty & license fees receipts/th GDP.....	0.2	63
6.3.2	High-tech exports less re-exports, %.....	0.9	72
6.3.3	Computer & comm. service exports, %	4.3	129 ○
6.3.4	FDI net outflows, % GDP	0.2	72
7	Creative outputs	14.9	132 ○
7.1	Creative intangibles.....	n/a	n/a
7.1.1	Domestic res trademark reg/bn PPP\$ GDP.....	n/a	n/a
7.1.2	Madrid resident trademark reg/bn PPP\$ GDP.....	n/a	n/a
7.1.3	ICT & business model creation†	n/a	n/a
7.1.4	ICT & organizational model creation†	n/a	n/a
7.2	Creative goods & services	8.2	111
7.2.1	Recreation & culture consumption, %.....	n/a	n/a
7.2.2	National feature films/mn pop. 15–69.....	1.7	53
7.2.3	Paid-for dailies, circulation/th pop. 15–69.....	69.0	70
7.2.4	Creative goods exports, %.....	0.9	76
7.2.5	Creative services exports, %.....	0.4	89
7.3	Online creativity.....	21.6	70
7.3.1	Generic top-level domains (TLDs)/th pop. 15–69.....	5.5	59
7.3.2	Country-code TLDs/th pop. 15–69.....	28.6	58
7.3.3	Wikipedia monthly edits/mn pop. 15–69.....	424.9	81
7.3.4	Video uploads on YouTube/pop. 15–69.....	49.9	79

Key indicators

Population (millions)	5.4
GDP per capita, PPP\$	36,723.3
GDP (US\$ billions)	270.6

	Score (0–100) or value (hard data)	Rank
Global Innovation Index 2012 (out of 141).....	61.8	4
Innovation Output Sub-Index	56.1	5
Innovation Input Sub-Index	67.5	6
Innovation Efficiency Index	0.8	30
Global Innovation Index 2011 (out of 125) .....	.....	5
GII 2012 rank among GII 2011 economies (125) .....	.....	4

1	Institutions.....	92.8	6
1.1	Political environment	99.5	1 ●
1.1.1	Political stability*.....	98.7	2 ●
1.1.2	Government effectiveness*.....	99.8	2 ●
1.1.3	Press freedom*.....	100.0	1 ●
1.2	Regulatory environment.....	97.5	6
1.2.1	Regulatory quality*.....	98.4	3
1.2.2	Rule of law*.....	100.0	1 ●
1.2.3	Cost of redundancy dismissal, salary weeks.....	10.1	37
1.3	Business environment	81.5	14
1.3.1	Ease of starting a business*.....	79.8	28
1.3.2	Ease of resolving insolvency*.....	96.4	6
1.3.3	Ease of paying taxes*.....	68.3	45
2	Human capital & research.....	68.2	3
2.1	Education.....	69.8	10
2.1.1	Current expenditure on education, % GNI	5.5	28
2.1.2	Public expenditure/pupil, % GDP/cap.....	26.0	21
2.1.3	School life expectancy, years.....	16.8	9
2.1.4	PISA scales in reading, maths, & science.....	543.5	3
2.1.5	Pupil-teacher ratio, secondary	9.9	25
2.2	Tertiary education	55.5	12
2.2.1	Tertiary enrolment, % gross.....	91.6	3
2.2.2	Graduates in science & engineering, %	28.2	13
2.2.3	Tertiary inbound mobility, %.....	4.2	32
2.2.4	Gross tertiary outbound enrolment, %	2.2	45
2.3	Research & development (R&D).....	79.3	3
2.3.1	Researchers, headcounts/mn pop.	10,382.2	2 ●
2.3.2	Gross expenditure on R&D, % GDP.....	3.8	2 ●
2.3.3	Quality of scientific research institutions†	70.4	18
3	Infrastructure.....	62.0	5
3.1	Information & communication technologies (ICT).....	77.3	8
3.1.1	ICT access*.....	76.1	16
3.1.2	ICT use*	71.1	4
3.1.3	Government's online service*.....	88.2	7
3.1.4	E-participation*.....	73.7	11
3.2	General infrastructure	64.1	5
3.2.1	Electricity output, kWh/cap.....	14,949.6	8
3.2.2	Electricity consumption, kWh/cap.....	16,439.2	6
3.2.3	Quality of trade & transport infrastructure*	77.0	8
3.2.4	Gross capital formation, % GDP.....	18.6	107 ○
3.3	Ecological sustainability	44.5	28
3.3.1	GDP/unit of energy use, 2000 PPP\$/kg oil eq.....	4.5	85 ○
3.3.2	Environmental performance*.....	64.4	19
3.3.3	ISO 14001 environmental certificates/bn PPP\$ GDP	6.0	18
4	Market sophistication	53.6	26
4.1	Credit	51.6	26
4.1.1	Ease of getting credit*	71.6	35
4.1.2	Domestic credit to private sector, % GDP.....	94.9	34
4.1.3	Microfinance gross loans, % GDP	n/a	n/a

4.2	Investment.....	45.5	23
4.2.1	Ease of protecting investors*.....	58.2	48
4.2.2	Market capitalization, % GDP.....	49.5	42
4.2.3	Total value of stocks traded, % GDP.....	42.7	25
4.2.4	Venture capital deals/tr PPP\$ GDP.....	95.8	13
4.3	Trade & competition	63.6	70
4.3.1	Applied tariff rate, weighted mean, %.....	1.6	11
4.3.2	Non-agricultural mkt access weighted tariff, %.....	2.0	92 ○
4.3.3	Imports of goods & services, % GDP	39.0	72 ○
4.3.4	Exports of goods & services, % GDP	40.3	63
4.3.5	Intensity of local competition†	63.3	67 ○
5	Business sophistication	60.7	7
5.1	Knowledge workers.....	78.3	9
5.1.1	Knowledge-intensive employment, %.....	43.8	7
5.1.2	Firms offering formal training, % firms.....	n/a	n/a
5.1.3	R&D performed by business, %.....	71.0	10
5.1.4	R&D financed by business, %	68.1	8
5.1.5	GMAT mean score.....	507.8	70 ○
5.1.6	GMAT test takers/mn pop. 20–34.....	225.0	26
5.2	Innovation linkages	51.0	22
5.2.1	University/industry research collaboration†	76.3	4
5.2.2	State of cluster development†	72.4	1 ●
5.2.3	R&D financed by abroad, %.....	6.6	49 ○
5.2.4	JV–strategic alliance deals/tr PPP\$ GDP	66.9	21
5.2.5	PCT patent filings with foreign inventor, %.....	46.3	53 ○
5.3	Knowledge absorption	52.9	14
5.3.1	Royalty & license fees payments/th GDP.....	5.2	15
5.3.2	High-tech imports less re-imports, %.....	11.4	40
5.3.3	Computer & comm. service imports, %.....	65.2	4
5.3.4	FDI net inflows, % GDP.....	1.8	80 ○
6	Knowledge & technology outputs	62.9	4
6.1	Knowledge creation.....	71.1	8
6.1.1	Domestic resident patent ap/bn PPP\$ GDP	18.0	6
6.1.2	PCT resident patent ap/bn PPP\$ GDP.....	10.5	2 ●
6.1.3	Domestic res utility model ap/bn PPP\$ GDP.....	2.9	13
6.1.4	Scientific & technical articles/bn PPP\$ GDP.....	27.6	5
6.2	Knowledge impact	46.5	27
6.2.1	Growth rate of PPP\$ GDP/worker, %.....	3.0	50
6.2.2	New businesses/th pop. 15–64.....	3.4	30
6.2.3	Computer software spending, % GDP.....	0.9	8
6.2.4	ISO 9001 quality certificates/bn PPP\$ GDP	11.4	45
6.3	Knowledge diffusion	71.0	4
6.3.1	Royalty & license fees receipts/th GDP.....	9.8	1 ●
6.3.2	High-tech exports less re-exports, %.....	10.1	26
6.3.3	Computer & comm. service exports, %	77.3	1 ●
6.3.4	FDI net outflows, % GDP	4.5	12
7	Creative outputs	49.3	17
7.1	Creative intangibles.....	46.0	43
7.1.1	Domestic res trademark reg/bn PPP\$ GDP.....	53.5	32
7.1.2	Madrid resident trademark reg/bn PPP\$ GDP.....	1.1	19
7.1.3	ICT & business model creation†	70.8	12
7.1.4	ICT & organizational model creation†	64.6	19
7.2	Creative goods & services	42.5	14
7.2.1	Recreation & culture consumption, %.....	11.1	8
7.2.2	National feature films/mn pop. 15–69.....	6.3	17
7.2.3	Paid-for dailies, circulation/th pop. 15–69.....	537.9	3
7.2.4	Creative goods exports, %.....	1.0	72 ○
7.2.5	Creative services exports, %.....	3.6	45
7.3	Online creativity.....	62.9	13
7.3.1	Generic top-level domains (TLDs)/th pop. 15–69.....	31.6	25
7.3.2	Country-code TLDs/th pop. 15–69.....	60.4	20
7.3.3	Wikipedia monthly edits/mn pop. 15–69.....	15,167.6	4
7.3.4	Video uploads on YouTube/pop. 15–69.....	82.4	3

France

Key indicators

Population (millions)	63.2
GDP per capita, PPP\$	35,048.8
GDP (US\$ billions)	2,808.3

	Score (0–100) or value (hard data)	Rank
Global Innovation Index 2012 (out of 141).....	51.8	24
Innovation Output Sub-Index	44.4	26
Innovation Input Sub-Index	59.1	22
Innovation Efficiency Index	0.8	64
Global Innovation Index 2011 (out of 125)	22	
GII 2012 rank among GII 2011 economies (125)	23	

1 Institutions.....82.7 20

1.1 Political environment82.6 22

1.1.1 Political stability*.....	82.2	31
1.1.2 Government effectiveness*.....	78.8	20
1.1.3 Press freedom*.....	86.8	34

1.2 Regulatory environment.....89.7 20

1.2.1 Regulatory quality*.....	85.7	22
1.2.2 Rule of law*.....	88.2	19
1.2.3 Cost of redundancy dismissal, salary weeks.....	11.8	50

1.3 Business environment76.0 22

1.3.1 Ease of starting a business*.....	86.3	20
1.3.2 Ease of resolving insolvency*.....	71.9	40
1.3.3 Ease of paying taxes*.....	69.7	43

2 Human capital & research.....55.1 17

2.1 Education.....63.0 26

2.1.1 Current expenditure on education, % GNI	5.0	39
2.1.2 Public expenditure/pupil, % GDP/cap.....	24.4	30
2.1.3 School life expectancy, years.....	16.1	17
2.1.4 PISA scales in reading, maths, & science.....	496.9	22
2.1.5 Pupil-teacher ratio, secondary.....	12.5	55

2.2 Tertiary education49.2 19

2.2.1 Tertiary enrolment, % gross.....	54.5	38
2.2.2 Graduates in science & engineering, %	26.2	20
2.2.3 Tertiary inbound mobility, %.....	11.5	14
2.2.4 Gross tertiary outbound enrolment, %	1.3	65

2.3 Research & development (R&D).....53.0 18

2.3.1 Researchers, headcounts/mn pop.	4,661.6	19
2.3.2 Gross expenditure on R&D, % GDP.....	2.2	14
2.3.3 Quality of scientific research institutions†.....	72.5	15

3 Infrastructure.....54.5 20

3.1 Information & communication technologies (ICT).....70.1 15

3.1.1 ICT access*.....	77.5	13 ●
3.1.2 ICT use*.....	57.4	18
3.1.3 Government's online service*.....	87.6	8 ●
3.1.4 E-participation*.....	57.9	25

3.2 General infrastructure51.8 21

3.2.1 Electricity output, kWh/cap.....	9,015.8	15
3.2.2 Electricity consumption, kWh/cap.....	7,893.8	21
3.2.3 Quality of trade & transport infrastructure*.....	75.0	13 ●
3.2.4 Gross capital formation, % GDP.....	19.4	98 ○

3.3 Ecological sustainability41.6 36

3.3.1 GDP/unit of energy use, 2000 PPP\$/kg oil eq.....	6.5	44
3.3.2 Environmental performance*.....	69.0	6 ●
3.3.3 ISO 14001 environmental certificates/bn PPP\$ GDP.....	2.5	38

4 Market sophistication52.0 29

4.1 Credit48.2 29

4.1.1 Ease of getting credit*.....	57.7	43
4.1.2 Domestic credit to private sector, % GDP.....	114.4	26
4.1.3 Microfinance gross loans, % GDP.....	n/a	n/a

4.2 Investment.....43.6 27

4.2.1 Ease of protecting investors*.....	46.7	60 ○
4.2.2 Market capitalization, % GDP.....	75.3	29
4.2.3 Total value of stocks traded, % GDP.....	32.3	29
4.2.4 Venture capital deals/tr PPP\$ GDP.....	102.4	12 ●

4.3 Trade & competition64.1 66

4.3.1 Applied tariff rate, weighted mean, %.....	1.6	11
4.3.2 Non-agricultural mkt access weighted tariff, %.....	2.0	92 ○
4.3.3 Imports of goods & services, % GDP.....	27.8	114 ○
4.3.4 Exports of goods & services, % GDP.....	25.5	107 ○
4.3.5 Intensity of local competition†.....	78.5	11 ●

5 Business sophistication51.3 26

5.1 Knowledge workers.....75.5 15

5.1.1 Knowledge-intensive employment, %.....	40.8	16
5.1.2 Firms offering formal training, % firms.....	n/a	n/a
5.1.3 R&D performed by business, %.....	61.9	21
5.1.4 R&D financed by business, %	50.7	21
5.1.5 GMAT mean score.....	562.5	25
5.1.6 GMAT test takers/mn pop. 20–34.....	356.2	13 ●

5.2 Innovation linkages36.7 63

5.2.1 University/industry research collaboration†.....	54.0	34
5.2.2 State of cluster development†.....	54.9	25
5.2.3 R&D financed by abroad, %.....	8.0	42
5.2.4 JV–strategic alliance deals/tr PPP\$ GDP.....	32.5	47
5.2.5 PCT patent filings with foreign inventor, %.....	26.1	70 ○

5.3 Knowledge absorption41.6 47

5.3.1 Royalty & license fees payments/th GDP.....	2.2	46
5.3.2 High-tech imports less re-imports, %	14.8	22
5.3.3 Computer & comm. service imports, %.....	42.0	32
5.3.4 FDI net inflows, % GDP.....	1.3	101 ○

6 Knowledge & technology outputs45.5 23

6.1 Knowledge creation.....45.5 30

6.1.1 Domestic resident patent ap/bn PPP\$ GDP.....	11.4	17
6.1.2 PCT resident patent ap/bn PPP\$ GDP.....	3.5	13
6.1.3 Domestic res utility model ap/bn PPP\$ GDP.....	0.1	59 ○
6.1.4 Scientific & technical articles/bn PPP\$ GDP.....	15.3	25

6.2 Knowledge impact40.4 42

6.2.1 Growth rate of PPP\$ GDP/worker, %.....	1.6	83 ○
6.2.2 New businesses/th pop. 15–64.....	3.1	32
6.2.3 Computer software spending, % GDP.....	0.6	16
6.2.4 ISO 9001 quality certificates/bn PPP\$ GDP.....	13.9	37

6.3 Knowledge diffusion50.7 21

6.3.1 Royalty & license fees receipts/th GDP.....	4.1	16
6.3.2 High-tech exports less re-exports, %.....	20.6	8 ●
6.3.3 Computer & comm. service exports, %	40.8	39
6.3.4 FDI net outflows, % GDP.....	3.3	18

7 Creative outputs43.3 30

7.1 Creative intangibles.....42.1 62

7.1.1 Domestic res trademark reg/bn PPP\$ GDP.....	11.2	76 ○
7.1.2 Madrid resident trademark reg/bn PPP\$ GDP.....	1.7	10
7.1.3 ICT & business model creation†.....	70.2	14 ●
7.1.4 ICT & organizational model creation†.....	55.8	39

7.2 Creative goods & services36.2 30

7.2.1 Recreation & culture consumption, %.....	9.2	19
7.2.2 National feature films/mn pop. 15–69.....	4.8	21
7.2.3 Paid-for dailies, circulation/th pop. 15–69.....	170.9	29
7.2.4 Creative goods exports, %.....	3.0	26
7.2.5 Creative services exports, %.....	2.1	59

7.3 Online creativity.....52.7 23

7.3.1 Generic top-level domains (TLDs)/th pop. 15–69.....	39.9	20
7.3.2 Country-code TLDs/th pop. 15–69.....	55.3	30
7.3.3 Wikipedia monthly edits/mn pop. 15–69.....	8,893.1	11 ●
7.3.4 Video uploads on YouTube/pop. 15–69.....	70.6	22

Key indicators

Population (millions)	1.5
GDP per capita, PPP\$	16,021.5
GDP (US\$ billions)	16.7

	Score (0–100) or value (hard data)	Rank
Global Innovation Index 2012 (out of 141).....	26.5	106
Innovation Output Sub-Index	22.2	106
Innovation Input Sub-Index	30.7	112
Innovation Efficiency Index	0.7	76
Global Innovation Index 2011 (out of 125)	n/a	n/a
GII 2012 rank among GII 2011 economies (125)	n/a	n/a
1 Institutions.....	43.0	106
1.1 Political environment	52.6	80
1.1.1 Political stability*.....	70.6	55 ●
1.1.2 Government effectiveness*.....	18.5	125
1.1.3 Press freedom*.....	68.6	80
1.2 Regulatory environment.....	60.8	88
1.2.1 Regulatory quality*.....	36.1	116
1.2.2 Rule of law*.....	34.1	95
1.2.3 Cost of redundancy dismissal, salary weeks.....	14.8	66
1.3 Business environment	15.5	130 ○
1.3.1 Ease of starting a business*.....	10.0	126 ○
1.3.2 Ease of resolving insolvency*.....	10.0	126 ○
1.3.3 Ease of paying taxes*.....	26.6	103
2 Human capital & research.....	29.8	93
2.1 Education.....	40.4	106
2.1.1 Current expenditure on education, % GNI	3.1	104
2.1.2 Public expenditure/pupil, % GDP/cap.....	n/a	n/a
2.1.3 School life expectancy, years.....	13.0	72
2.1.4 PISA scales in reading, maths, & science.....	n/a	n/a
2.1.5 Pupil-teacher ratio, secondary	n/a	n/a
2.2 Tertiary education	40.6	50 ●
2.2.1 Tertiary enrolment, % gross.....	n/a	n/a
2.2.2 Graduates in science & engineering, %	n/a	n/a
2.2.3 Tertiary inbound mobility, %.....	n/a	n/a
2.2.4 Gross tertiary outbound enrolment, %	3.7	21 ●
2.3 Research & development (R&D).....	8.6	130 ○
2.3.1 Researchers, headcounts/mn pop.	359.4	76
2.3.2 Gross expenditure on R&D, % GDP.....	0.6	47
2.3.3 Quality of scientific research institutions†	n/a	n/a
3 Infrastructure.....	24.3	108
3.1 Information & communication technologies (ICT).....	16.2	116
3.1.1 ICT access*.....	32.6	93
3.1.2 ICT use*	2.5	124
3.1.3 Government's online service*.....	19.0	134 ○
3.1.4 E-participation*.....	10.5	93
3.2 General infrastructure	28.6	109
3.2.1 Electricity output, kWh/cap.....	1,129.5	90
3.2.2 Electricity consumption, kWh/cap.....	924.1	94
3.2.3 Quality of trade & transport infrastructure*	27.3	111
3.2.4 Gross capital formation, % GDP.....	25.9	35 ●
3.3 Ecological sustainability	28.2	79
3.3.1 GDP/unit of energy use, 2000 PPP\$/kg oil eq.....	4.9	76
3.3.2 Environmental performance*.....	57.9	39 ●
3.3.3 ISO 14001 environmental certificates/bn PPP\$ GDP	0.1	119
4 Market sophistication	19.2	137 ○
4.1 Credit	3.8	135 ○
4.1.1 Ease of getting credit*	10.9	120
4.1.2 Domestic credit to private sector, % GDP.....	8.2	139 ○
4.1.3 Microfinance gross loans, % GDP.....	0.0	84 ○

4.2 Investment.....	3.6	129 ○
4.2.1 Ease of protecting investors*.....	7.1	123 ○
4.2.2 Market capitalization, % GDP.....	n/a	n/a
4.2.3 Total value of stocks traded, % GDP.....	n/a	n/a
4.2.4 Venture capital deals/tr PPP\$ GDP.....	0.0	65 ○
4.3 Trade & competition	50.2	124
4.3.1 Applied tariff rate, weighted mean, %.....	14.5	134 ○
4.3.2 Non-agricultural mkt access weighted tariff, %.....	0.5	56
4.3.3 Imports of goods & services, % GDP.....	31.3	102
4.3.4 Exports of goods & services, % GDP.....	52.3	42 ●
4.3.5 Intensity of local competition†	n/a	n/a
5 Business sophistication	37.2	78
5.1 Knowledge workers.....	34.0	109
5.1.1 Knowledge-intensive employment, %.....	n/a	n/a
5.1.2 Firms offering formal training, % firms.....	30.9	63
5.1.3 R&D performed by business, %.....	n/a	n/a
5.1.4 R&D financed by business, %	29.3	52
5.1.5 GMAT mean score.....	395.0	132 ○
5.1.6 GMAT test takers/mn pop. 20–34.....	44.8	83
5.2 Innovation linkages	28.1	109
5.2.1 University/industry research collaboration†	n/a	n/a
5.2.2 State of cluster development†	n/a	n/a
5.2.3 R&D financed by abroad, %.....	3.1	69
5.2.4 JV–strategic alliance deals/tr PPP\$ GDP	0.0	114 ○
5.2.5 PCT patent filings with foreign inventor, %.....	100.0	1 ●
5.3 Knowledge absorption	49.5	19 ●
5.3.1 Royalty & license fees payments/th GDP.....	n/a	n/a
5.3.2 High-tech imports less re-imports, %	n/a	n/a
5.3.3 Computer & comm. service imports, %.....	35.2	53
5.3.4 FDI net inflows, % GDP.....	1.3	102
6 Knowledge & technology outputs	32.3	52 ●
6.1 Knowledge creation.....	18.0	87
6.1.1 Domestic resident patent ap/bn PPP\$ GDP	0.2	98
6.1.2 PCT resident patent ap/bn PPP\$ GDP.....	0.1	63
6.1.3 Domestic res utility model ap/bn PPP\$ GDP.....	n/a	n/a
6.1.4 Scientific & technical articles/bn PPP\$ GDP.....	0.9	118
6.2 Knowledge impact	23.2	107
6.2.1 Growth rate of PPP\$ GDP/worker, %.....	n/a	n/a
6.2.2 New businesses/th pop. 15–64.....	4.3	24 ●
6.2.3 Computer software spending, % GDP.....	n/a	n/a
6.2.4 ISO 9001 quality certificates/bn PPP\$ GDP	0.8	117
6.3 Knowledge diffusion	55.6	15 ●
6.3.1 Royalty & license fees receipts/th GDP.....	n/a	n/a
6.3.2 High-tech exports less re-exports, %.....	n/a	n/a
6.3.3 Computer & comm. service exports, %	46.2	28 ●
6.3.4 FDI net outflows, % GDP	0.9	43 ●
7 Creative outputs	12.1	135 ○
7.1 Creative intangibles.....	n/a	n/a
7.1.1 Domestic res trademark reg/bn PPP\$ GDP.....	n/a	n/a
7.1.2 Madrid resident trademark reg/bn PPP\$ GDP.....	n/a	n/a
7.1.3 ICT & business model creation†	n/a	n/a
7.1.4 ICT & organizational model creation†	n/a	n/a
7.2 Creative goods & services	10.7	97
7.2.1 Recreation & culture consumption, %.....	n/a	n/a
7.2.2 National feature films/mn pop. 15–69.....	6.6	15 ●
7.2.3 Paid-for dailies, circulation/th pop. 15–69.....	22.1	102
7.2.4 Creative goods exports, %.....	0.0	133 ○
7.2.5 Creative services exports, %.....	n/a	n/a
7.3 Online creativity.....	13.6	99
7.3.1 Generic top-level domains (TLDs)/th pop. 15–69.....	2.1	82
7.3.2 Country-code TLDs/th pop. 15–69.....	4.5	107
7.3.3 Wikipedia monthly edits/mn pop. 15–69.....	n/a	n/a
7.3.4 Video uploads on YouTube/pop. 15–69.....	34.1	103

Gambia

Key indicators

Population (millions)	1.8
GDP per capita, PPP\$	2,116.6
GDP (US\$ billions)	1.1

	Score (0–100) or value (hard data)	Rank
Global Innovation Index 2012 (out of 141).....	23.3	130
Innovation Output Sub-Index	18.7	125
Innovation Input Sub-Index	27.8	128
Innovation Efficiency Index	0.7	95
Global Innovation Index 2011 (out of 125)	n/a	
GII 2012 rank among GII 2011 economies (125)	n/a	
1 Institutions.....	38.9	123
1.1 Political environment	46.3	96
1.1.1 Political stability*.....	66.7	62 ●
1.1.2 Government effectiveness*.....	23.3	110
1.1.3 Press freedom*.....	49.0	115
1.2 Regulatory environment.....	51.2	115
1.2.1 Regulatory quality*.....	41.8	100
1.2.2 Rule of law*.....	34.2	94
1.2.3 Cost of redundancy dismissal, salary weeks.....	26.0	110
1.3 Business environment	19.4	128
1.3.1 Ease of starting a business*.....	35.2	91
1.3.2 Ease of resolving insolvency*.....	20.1	112
1.3.3 Ease of paying taxes*.....	2.8	136 ○
2 Human capital & research.....	19.9	126
2.1 Education.....	26.8	129
2.1.1 Current expenditure on education, % GNI	3.1	100
2.1.2 Public expenditure/pupil, % GDP/cap.....	10.6	104
2.1.3 School life expectancy, years.....	8.7	126 ○
2.1.4 PISA scales in reading, maths, & science.....	n/a	n/a
2.1.5 Pupil-teacher ratio, secondary	26.6	114
2.2 Tertiary education	18.9	107
2.2.1 Tertiary enrolment, % gross.....	4.1	124
2.2.2 Graduates in science & engineering, %	20.0	56
2.2.3 Tertiary inbound mobility, %.....	0.0	90 ○
2.2.4 Gross tertiary outbound enrolment, %	0.7	84
2.3 Research & development (R&D).....	14.0	111
2.3.1 Researchers, headcounts/mn pop.	106.4	100
2.3.2 Gross expenditure on R&D, % GDP.....	0.0	114 ○
2.3.3 Quality of scientific research institutions†.....	41.3	73
3 Infrastructure.....	28.1	94
3.1 Information & communication technologies (ICT).....	14.7	121
3.1.1 ICT access*.....	23.3	110
3.1.2 ICT use*.....	3.2	118
3.1.3 Government's online service*.....	32.0	110
3.1.4 E-participation*.....	0.0	127 ○
3.2 General infrastructure	41.5	42 ●
3.2.1 Electricity output, kWh/cap.....	n/a	n/a
3.2.2 Electricity consumption, kWh/cap.....	n/a	n/a
3.2.3 Quality of trade & transport infrastructure*.....	29.3	104
3.2.4 Gross capital formation, % GDP.....	25.9	36 ●
3.3 Ecological sustainability	n/a	n/a
3.3.1 GDP/unit of energy use, 2000 PPP\$/kg oil eq.....	n/a	n/a
3.3.2 Environmental performance*.....	n/a	n/a
3.3.3 ISO 14001 environmental certificates/bn PPP\$ GDP.....	n/a	n/a
4 Market sophistication	19.6	135 ○
4.1 Credit	6.2	130
4.1.1 Ease of getting credit*.....	10.9	120
4.1.2 Domestic credit to private sector, % GDP.....	19.1	119
4.1.3 Microfinance gross loans, % GDP.....	0.3	55

4.2 Investment.....	0.7	140 ○
4.2.1 Ease of protecting investors*.....	1.4	136 ○
4.2.2 Market capitalization, % GDP.....	n/a	n/a
4.2.3 Total value of stocks traded, % GDP.....	n/a	n/a
4.2.4 Venture capital deals/tr PPP\$ GDP.....	0.0	65 ○
4.3 Trade & competition	51.9	117
4.3.1 Applied tariff rate, weighted mean, %.....	14.8	135 ○
4.3.2 Non-agricultural mkt access weighted tariff, %.....	0.2	32 ●
4.3.3 Imports of goods & services, % GDP.....	48.7	51 ●
4.3.4 Exports of goods & services, % GDP.....	29.3	92
4.3.5 Intensity of local competition†.....	59.8	82
5 Business sophistication	32.7	106
5.1 Knowledge workers.....	29.2	117
5.1.1 Knowledge-intensive employment, %.....	n/a	n/a
5.1.2 Firms offering formal training, % firms.....	25.6	76
5.1.3 R&D performed by business, %.....	n/a	n/a
5.1.4 R&D financed by business, %	n/a	n/a
5.1.5 GMAT mean score.....	397.0	131
5.1.6 GMAT test takers/mn pop. 20–34.....	27.9	104
5.2 Innovation linkages	33.6	77
5.2.1 University/industry research collaboration†.....	42.4	68 ●
5.2.2 State of cluster development†.....	41.6	66 ●
5.2.3 R&D financed by abroad, %.....	n/a	n/a
5.2.4 JV-strategic alliance deals/tr PPP\$ GDP.....	0.0	114 ○
5.2.5 PCT patent filings with foreign inventor, %.....	n/a	n/a
5.3 Knowledge absorption	35.3	69 ●
5.3.1 Royalty & license fees payments/th GDP.....	n/a	n/a
5.3.2 High-tech imports less re-imports, %	2.6	120 ○
5.3.3 Computer & comm. service imports, %.....	36.0	49 ●
5.3.4 FDI net inflows, % GDP.....	4.6	41 ●
6 Knowledge & technology outputs	14.0	134 ○
6.1 Knowledge creation.....	19.4	78
6.1.1 Domestic resident patent ap/bn PPP\$ GDP.....	n/a	n/a
6.1.2 PCT resident patent ap/bn PPP\$ GDP.....	n/a	n/a
6.1.3 Domestic res utility model ap/bn PPP\$ GDP.....	n/a	n/a
6.1.4 Scientific & technical articles/bn PPP\$ GDP.....	6.0	51 ●
6.2 Knowledge impact	9.5	134 ○
6.2.1 Growth rate of PPP\$ GDP/worker, %.....	n/a	n/a
6.2.2 New businesses/th pop. 15–64.....	n/a	n/a
6.2.3 Computer software spending, % GDP.....	n/a	n/a
6.2.4 ISO 9001 quality certificates/bn PPP\$ GDP.....	0.6	125
6.3 Knowledge diffusion	13.0	126
6.3.1 Royalty & license fees receipts/th GDP.....	n/a	n/a
6.3.2 High-tech exports less re-exports, %.....	0.2	100
6.3.3 Computer & comm. service exports, %	21.1	90
6.3.4 FDI net outflows, % GDP.....	n/a	n/a
7 Creative outputs	23.5	109
7.1 Creative intangibles.....	39.4	74
7.1.1 Domestic res trademark reg/bn PPP\$ GDP.....	15.0	69
7.1.2 Madrid resident trademark reg/bn PPP\$ GDP.....	n/a	n/a
7.1.3 ICT & business model creation†.....	50.9	71
7.1.4 ICT & organizational model creation†.....	60.2	24 ●
7.2 Creative goods & services	0.6	139 ○
7.2.1 Recreation & culture consumption, %.....	n/a	n/a
7.2.2 National feature films/mn pop. 15–69.....	n/a	n/a
7.2.3 Paid-for dailies, circulation/th pop. 15–69.....	4.4	125
7.2.4 Creative goods exports, %.....	n/a	n/a
7.2.5 Creative services exports, %.....	n/a	n/a
7.3 Online creativity.....	14.7	95
7.3.1 Generic top-level domains (TLDs)/th pop. 15–69.....	0.9	101
7.3.2 Country-code TLDs/th pop. 15–69.....	10.3	98
7.3.3 Wikipedia monthly edits/mn pop. 15–69.....	n/a	n/a
7.3.4 Video uploads on YouTube/pop. 15–69.....	32.9	105

Key indicators

Population (millions)	4.5
GDP per capita, PPP\$	5,430.3
GDP (US\$ billions)	13.8

	Score (0–100) or value (hard data)	Rank
Global Innovation Index 2012 (out of 141).....	34.3	71
Innovation Output Sub-Index	26.8	81
Innovation Input Sub-Index	41.7	63
Innovation Efficiency Index	0.6	106
Global Innovation Index 2011 (out of 125)	73	
GII 2012 rank among GII 2011 economies (125)	69	
1 Institutions.....	65.2	51
1.1 Political environment	55.0	74
1.1.1 Political stability*.....	48.9	104
1.1.2 Government effectiveness*.....	48.6	52
1.1.3 Press freedom*.....	67.6	81
1.2 Regulatory environment.....	77.1	40
1.2.1 Regulatory quality*.....	66.4	45
1.2.2 Rule of law*.....	42.2	69
1.2.3 Cost of redundancy dismissal, salary weeks.....	8.0	1 ●
1.3 Business environment	63.5	37
1.3.1 Ease of starting a business*.....	94.9	8 ●
1.3.2 Ease of resolving insolvency*.....	29.4	99
1.3.3 Ease of paying taxes*.....	66.1	48
2 Human capital & research.....	29.6	95
2.1 Education.....	45.9	87
2.1.1 Current expenditure on education, % GNI	2.8	114
2.1.2 Public expenditure/pupil, % GDP/cap.....	15.4	88
2.1.3 School life expectancy, years.....	13.2	67
2.1.4 PISA scales in reading, maths, & science.....	375.5	65 ○
2.1.5 Pupil-teacher ratio, secondary	7.6	7 ●
2.2 Tertiary education	27.7	82
2.2.1 Tertiary enrolment, % gross.....	28.2	76
2.2.2 Graduates in science & engineering, %	17.4	65
2.2.3 Tertiary inbound mobility, %.....	0.8	78
2.2.4 Gross tertiary outbound enrolment, %	2.3	38
2.3 Research & development (R&D).....	15.3	103
2.3.1 Researchers, headcounts/mn pop.	1,811.9	41
2.3.2 Gross expenditure on R&D, % GDP.....	0.2	88
2.3.3 Quality of scientific research institutions†	28.7	114 ○
3 Infrastructure.....	29.4	87
3.1 Information & communication technologies (ICT).....	33.7	68
3.1.1 ICT access*.....	35.6	88
3.1.2 ICT use*	18.1	66
3.1.3 Government's online service*	60.1	42
3.1.4 E-participation*.....	21.1	63
3.2 General infrastructure	26.0	120
3.2.1 Electricity output, kWh/cap.....	1,951.7	78
3.2.2 Electricity consumption, kWh/cap.....	1,641.3	76
3.2.3 Quality of trade & transport infrastructure*	29.3	104
3.2.4 Gross capital formation, % GDP.....	19.5	95
3.3 Ecological sustainability	28.4	78
3.3.1 GDP/unit of energy use, 2000 PPP\$/kg oil eq.....	5.1	72
3.3.2 Environmental performance*.....	56.8	46
3.3.3 ISO 14001 environmental certificates/bn PPP\$ GDP	0.2	113
4 Market sophistication	50.3	31
4.1 Credit	44.7	34
4.1.1 Ease of getting credit*	77.4	21
4.1.2 Domestic credit to private sector, % GDP.....	32.4	92
4.1.3 Microfinance gross loans, % GDP.....	3.9	12 ●

4.2 Investment.....	37.5	36
4.2.1 Ease of protecting investors*.....	82.0	20 ●
4.2.2 Market capitalization, % GDP.....	9.1	94 ○
4.2.3 Total value of stocks traded, % GDP.....	0.0	104 ○
4.2.4 Venture capital deals/tr PPP\$ GDP.....	41.2	30
4.3 Trade & competition	68.8	35
4.3.1 Applied tariff rate, weighted mean, %.....	0.4	4 ●
4.3.2 Non-agricultural mkt access weighted tariff, %.....	0.1	24 ●
4.3.3 Imports of goods & services, % GDP.....	52.3	46
4.3.4 Exports of goods & services, % GDP.....	34.8	80
4.3.5 Intensity of local competition†	48.3	123 ○
5 Business sophistication	34.0	96
5.1 Knowledge workers.....	40.6	87
5.1.1 Knowledge-intensive employment, %.....	22.2	59
5.1.2 Firms offering formal training, % firms.....	14.5	98 ○
5.1.3 R&D performed by business, %.....	n/a	n/a
5.1.4 R&D financed by business, %	n/a	n/a
5.1.5 GMAT mean score.....	525.7	56
5.1.6 GMAT test takers/mn pop. 20–34.....	160.4	37
5.2 Innovation linkages	37.3	60
5.2.1 University/industry research collaboration†	27.3	120 ○
5.2.2 State of cluster development†	34.7	97
5.2.3 R&D financed by abroad, %.....	n/a	n/a
5.2.4 JV–strategic alliance deals/tr PPP\$ GDP	0.0	114 ○
5.2.5 PCT patent filings with foreign inventor, %.....	100.0	1 ●
5.3 Knowledge absorption	24.0	128 ○
5.3.1 Royalty & license fees payments/th GDP.....	0.6	83
5.3.2 High-tech imports less re-imports, %	6.6	87
5.3.3 Computer & comm. service imports, %.....	12.3	118 ○
5.3.4 FDI net inflows, % GDP.....	7.0	26 ●
6 Knowledge & technology outputs	29.5	57
6.1 Knowledge creation.....	33.3	43
6.1.1 Domestic resident patent ap/bn PPP\$ GDP	8.0	26
6.1.2 PCT resident patent ap/bn PPP\$ GDP	0.2	56
6.1.3 Domestic res utility model ap/bn PPP\$ GDP.....	2.8	14
6.1.4 Scientific & technical articles/bn PPP\$ GDP.....	6.1	49
6.2 Knowledge impact	38.7	49
6.2.1 Growth rate of PPP\$ GDP/worker, %	5.1	19 ●
6.2.2 New businesses/th pop. 15–64.....	2.3	42
6.2.3 Computer software spending, % GDP.....	n/a	n/a
6.2.4 ISO 9001 quality certificates/bn PPP\$ GDP	3.2	79
6.3 Knowledge diffusion	16.5	118
6.3.1 Royalty & license fees receipts/th GDP.....	0.4	49
6.3.2 High-tech exports less re-exports, %.....	0.9	76
6.3.3 Computer & comm. service exports, %	8.0	125 ○
6.3.4 FDI net outflows, % GDP	0.1	91
7 Creative outputs	24.2	105
7.1 Creative intangibles.....	26.9	124 ○
7.1.1 Domestic res trademark reg/bn PPP\$ GDP.....	30.3	48
7.1.2 Madrid resident trademark reg/bn PPP\$ GDP.....	0.4	38
7.1.3 ICT & business model creation†	41.9	108
7.1.4 ICT & organizational model creation†	43.0	84
7.2 Creative goods & services	17.1	80
7.2.1 Recreation & culture consumption, %.....	5.7	46
7.2.2 National feature films/mn pop. 15–69.....	4.4	27
7.2.3 Paid-for dailies, circulation/th pop. 15–69.....	13.6	111
7.2.4 Creative goods exports, %.....	0.4	91
7.2.5 Creative services exports, %.....	2.2	58
7.3 Online creativity.....	25.9	53
7.3.1 Generic top-level domains (TLDs)/th pop. 15–69.....	1.9	86
7.3.2 Country-code TLDs/th pop. 15–69.....	27.8	59
7.3.3 Wikipedia monthly edits/mn pop. 15–69.....	3,169.2	41
7.3.4 Video uploads on YouTube/pop. 15–69.....	57.7	62

Germany

Key indicators

Population (millions)	81.4
GDP per capita, PPP\$	37,935.5
GDP (US\$ billions)	3,628.6

	Score (0–100) or value (hard data)	Rank
Global Innovation Index 2012 (out of 141).....	56.2	15
Innovation Output Sub-Index	53.7	7 ●
Innovation Input Sub-Index	58.8	23
Innovation Efficiency Index	0.9	11
Global Innovation Index 2011 (out of 125)		12
GII 2012 rank among GII 2011 economies (125)		15

1	Institutions.....	76.7	26
1.1	Political environment	87.3	13
1.1.1	Political stability*.....	84.9	27
1.1.2	Government effectiveness*.....	81.8	17
1.1.3	Press freedom*.....	95.3	15
1.2	Regulatory environment.....	82.2	33
1.2.1	Regulatory quality*.....	91.7	14
1.2.2	Rule of law*.....	90.9	16
1.2.3	Cost of redundancy dismissal, salary weeks.....	21.6	94 ○
1.3	Business environment	60.4	42
1.3.1	Ease of starting a business*.....	48.9	71 ○
1.3.2	Ease of resolving insolvency*.....	78.4	31
1.3.3	Ease of paying taxes*.....	53.9	65
2	Human capital & research.....	55.4	16
2.1	Education.....	63.6	23
2.1.1	Current expenditure on education, % GNI	4.3	61
2.1.2	Public expenditure/pupil, % GDP/cap.....	n/a	n/a
2.1.3	School life expectancy, years.....	n/a	n/a
2.1.4	PISA scales in reading, maths, & science.....	510.2	13
2.1.5	Pupil-teacher ratio, secondary	13.2	57
2.2	Tertiary education	41.8	45
2.2.1	Tertiary enrolment, % gross.....	n/a	n/a
2.2.2	Graduates in science & engineering, %	24.6	28
2.2.3	Tertiary inbound mobility, %.....	n/a	n/a
2.2.4	Gross tertiary outbound enrolment, %	1.8	50
2.3	Research & development (R&D).....	60.7	11
2.3.1	Researchers, headcounts/mn pop.	5,305.4	12
2.3.2	Gross expenditure on R&D, % GDP.....	2.8	8 ●
2.3.3	Quality of scientific research institutions†	76.6	10
3	Infrastructure.....	55.1	16
3.1	Information & communication technologies (ICT).....	73.1	14
3.1.1	ICT access*.....	84.1	6 ●
3.1.2	ICT use*.....	56.9	20
3.1.3	Government's online service*.....	75.2	24
3.1.4	E-participation*.....	76.3	8 ●
3.2	General infrastructure	51.5	22
3.2.1	Electricity output, kWh/cap.....	7,525.1	27
3.2.2	Electricity consumption, kWh/cap.....	7,107.8	23
3.2.3	Quality of trade & transport infrastructure*.....	83.5	1 ●
3.2.4	Gross capital formation, % GDP.....	17.3	116 ○
3.3	Ecological sustainability	40.8	39
3.3.1	GDP/unit of energy use, 2000 PPP\$/kg oil eq.....	7.0	37
3.3.2	Environmental performance*.....	66.9	11
3.3.3	ISO 14001 environmental certificates/bn PPP\$ GDP.....	2.0	44
4	Market sophistication	54.9	24
4.1	Credit	56.9	21
4.1.1	Ease of getting credit*.....	77.4	21
4.1.2	Domestic credit to private sector, % GDP.....	107.8	27
4.1.3	Microfinance gross loans, % GDP.....	n/a	n/a

4.2	Investment.....	39.1	32
4.2.1	Ease of protecting investors*.....	35.9	76 ○
4.2.2	Market capitalization, % GDP.....	43.2	49
4.2.3	Total value of stocks traded, % GDP.....	42.5	26
4.2.4	Venture capital deals/tr PPP\$ GDP.....	90.6	15
4.3	Trade & competition	68.9	34
4.3.1	Applied tariff rate, weighted mean, %.....	1.6	11
4.3.2	Non-agricultural mkt access weighted tariff, %.....	2.0	92 ○
4.3.3	Imports of goods & services, % GDP.....	41.4	69 ○
4.3.4	Exports of goods & services, % GDP.....	46.8	49
4.3.5	Intensity of local competition†	79.9	8 ●
5	Business sophistication	51.7	24
5.1	Knowledge workers.....	69.8	25
5.1.1	Knowledge-intensive employment, %.....	41.9	14
5.1.2	Firms offering formal training, % firms.....	35.4	51
5.1.3	R&D performed by business, %.....	68.2	13
5.1.4	R&D financed by business, %	67.3	9
5.1.5	GMAT mean score.....	565.5	23
5.1.6	GMAT test takers/mn pop. 20–34.....	260.4	24
5.2	Innovation linkages	39.2	55
5.2.1	University/industry research collaboration†	69.3	12
5.2.2	State of cluster development†	62.0	13
5.2.3	R&D financed by abroad, %.....	4.0	67 ○
5.2.4	JV–strategic alliance deals/tr PPP\$ GDP	21.3	64
5.2.5	PCT patent filings with foreign inventor, %.....	24.5	74 ○
5.3	Knowledge absorption	46.1	26
5.3.1	Royalty & license fees payments/th GDP.....	4.0	25
5.3.2	High-tech imports less re-imports, %	15.1	19
5.3.3	Computer & comm. service imports, %.....	43.6	29
5.3.4	FDI net inflows, % GDP.....	1.4	96 ○
6	Knowledge & technology outputs	54.9	12
6.1	Knowledge creation.....	71.1	7 ●
6.1.1	Domestic resident patent ap/bn PPP\$ GDP	25.3	5 ●
6.1.2	PCT resident patent ap/bn PPP\$ GDP.....	6.0	8 ●
6.1.3	Domestic res utility model ap/bn PPP\$ GDP.....	4.7	11
6.1.4	Scientific & technical articles/bn PPP\$ GDP.....	16.0	19
6.2	Knowledge impact	42.0	40
6.2.1	Growth rate of PPP\$ GDP/worker, %.....	3.1	49
6.2.2	New businesses/th pop. 15–64.....	1.2	57 ○
6.2.3	Computer software spending, % GDP.....	0.7	15
6.2.4	ISO 9001 quality certificates/bn PPP\$ GDP	17.2	29
6.3	Knowledge diffusion	51.5	18
6.3.1	Royalty & license fees receipts/th GDP.....	4.4	14
6.3.2	High-tech exports less re-exports, %.....	13.7	24
6.3.3	Computer & comm. service exports, %	54.2	20
6.3.4	FDI net outflows, % GDP	3.3	17
7	Creative outputs	52.6	10 ●
7.1	Creative intangibles.....	46.2	40
7.1.1	Domestic res trademark reg/bn PPP\$ GDP.....	69.4	22
7.1.2	Madrid resident trademark reg/bn PPP\$ GDP.....	1.5	14
7.1.3	ICT & business model creation†	65.3	24
7.1.4	ICT & organizational model creation†	54.1	44
7.2	Creative goods & services	45.8	11
7.2.1	Recreation & culture consumption, %.....	9.5	15
7.2.2	National feature films/mn pop. 15–69.....	2.7	40
7.2.3	Paid-for dailies, circulation/th pop. 15–69.....	333.6	10 ●
7.2.4	Creative goods exports, %.....	2.2	38
7.2.5	Creative services exports, %.....	13.8	9
7.3	Online creativity.....	72.2	9 ●
7.3.1	Generic top-level domains (TLDs)/th pop. 15–69.....	98.9	7 ●
7.3.2	Country-code TLDs/th pop. 15–69.....	77.5	5 ●
7.3.3	Wikipedia monthly edits/mn pop. 15–69.....	8,223.0	14
7.3.4	Video uploads on YouTube/pop. 15–69.....	70.5	24

Key indicators

Population (millions)	24.3
GDP per capita, PPP\$	3,081.6
GDP (US\$ billions)	38.6

	Score (0–100) or value (hard data)	Rank
Global Innovation Index 2012 (out of 141).....	29.6	92
Innovation Output Sub-Index	24.1	93
Innovation Input Sub-Index	35.1	91
Innovation Efficiency Index	0.7	86
Global Innovation Index 2011 (out of 125)	70	70
GII 2012 rank among GII 2011 economies (125)	87	87

1	Institutions.....	49.5	90
1.1	Political environment	64.3	54
1.1.1	Political stability*.....	66.2	64
1.1.2	Government effectiveness*.....	40.8	68
1.1.3	Press freedom*.....	85.8	37 ●
1.2	Regulatory environment.....	33.6	133 ○
1.2.1	Regulatory quality*.....	54.0	71
1.2.2	Rule of law*.....	45.8	61
1.2.3	Cost of redundancy dismissal, salary weeks.....	49.8	134 ○
1.3	Business environment	50.6	66
1.3.1	Ease of starting a business*.....	52.5	67
1.3.2	Ease of resolving insolvency*.....	27.3	102
1.3.3	Ease of paying taxes*.....	71.9	40 ●
2	Human capital & research.....	27.2	102
2.1	Education.....	44.8	93
2.1.1	Current expenditure on education, % GNI	4.7	51 ●
2.1.2	Public expenditure/pupil, % GDP/cap.....	19.0	68
2.1.3	School life expectancy, years.....	10.7	109
2.1.4	PISA scales in reading, maths, & science.....	n/a	n/a
2.1.5	Pupil-teacher ratio, secondary	18.7	91
2.2	Tertiary education	20.2	102
2.2.1	Tertiary enrolment, % gross.....	8.8	111
2.2.2	Graduates in science & engineering, %	16.7	69
2.2.3	Tertiary inbound mobility, %.....	1.4	69
2.2.4	Gross tertiary outbound enrolment, %	0.3	111
2.3	Research & development (R&D).....	16.5	97
2.3.1	Researchers, headcounts/mn pop.	28.0	118 ○
2.3.2	Gross expenditure on R&D, % GDP.....	0.2	78
2.3.3	Quality of scientific research institutions†.....	44.5	65
3	Infrastructure.....	24.6	107
3.1	Information & communication technologies (ICT).....	16.5	115
3.1.1	ICT access*.....	22.3	112
3.1.2	ICT use*	3.2	120
3.1.3	Government's online service*.....	30.1	116
3.1.4	E-participation*.....	10.5	93
3.2	General infrastructure	28.6	110
3.2.1	Electricity output, kWh/cap.....	387.7	108
3.2.2	Electricity consumption, kWh/cap.....	265.0	110
3.2.3	Quality of trade & transport infrastructure*.....	38.0	71
3.2.4	Gross capital formation, % GDP.....	22.4	71
3.3	Ecological sustainability	28.9	75
3.3.1	GDP/unit of energy use, 2000 PPP\$/kg oil eq.....	6.8	42 ●
3.3.2	Environmental performance*.....	47.5	88
3.3.3	ISO 14001 environmental certificates/bn PPP\$ GDP.....	0.1	125 ○
4	Market sophistication	37.1	73
4.1	Credit	40.8	42 ●
4.1.1	Ease of getting credit*	57.7	43
4.1.2	Domestic credit to private sector, % GDP.....	15.2	129 ○
4.1.3	Microfinance gross loans, % GDP.....	5.1	7 ●

4.2	Investment.....	17.8	94
4.2.1	Ease of protecting investors*.....	66.9	35 ●
4.2.2	Market capitalization, % GDP.....	11.3	92
4.2.3	Total value of stocks traded, % GDP.....	0.3	87
4.2.4	Venture capital deals/tr PPP\$ GDP.....	0.0	65 ○
4.3	Trade & competition	52.7	116
4.3.1	Applied tariff rate, weighted mean, %.....	8.6	113
4.3.2	Non-agricultural mkt access weighted tariff, %.....	2.0	119
4.3.3	Imports of goods & services, % GDP.....	38.4	76
4.3.4	Exports of goods & services, % GDP.....	25.3	108
4.3.5	Intensity of local competition†	65.0	65
5	Business sophistication	36.9	83
5.1	Knowledge workers.....	37.8	97
5.1.1	Knowledge-intensive employment, %.....	n/a	n/a
5.1.2	Firms offering formal training, % firms.....	33.0	55
5.1.3	R&D performed by business, %.....	4.9	80
5.1.4	R&D financed by business, %	50.9	19 ●
5.1.5	GMAT mean score.....	437.9	109
5.1.6	GMAT test takers/mn pop. 20–34.....	58.6	72
5.2	Innovation linkages	29.0	102
5.2.1	University/industry research collaboration†	37.2	92
5.2.2	State of cluster development†	35.2	95
5.2.3	R&D financed by abroad, %.....	11.9	27 ●
5.2.4	JV–strategic alliance deals/tr PPP\$ GDP	16.0	72
5.2.5	PCT patent filings with foreign inventor, %.....	n/a	n/a
5.3	Knowledge absorption	44.0	35 ●
5.3.1	Royalty & license fees payments/th GDP.....	n/a	n/a
5.3.2	High-tech imports less re-imports, %	11.5	38 ●
5.3.3	Computer & comm. service imports, %.....	29.6	68
5.3.4	FDI net inflows, % GDP.....	8.1	20 ●
6	Knowledge & technology outputs	22.6	91
6.1	Knowledge creation.....	18.3	83
6.1.1	Domestic resident patent ap/bn PPP\$ GDP	n/a	n/a
6.1.2	PCT resident patent ap/bn PPP\$ GDP	0.0	101 ○
6.1.3	Domestic res utility model ap/bn PPP\$ GDP.....	n/a	n/a
6.1.4	Scientific & technical articles/bn PPP\$ GDP.....	1.7	90
6.2	Knowledge impact	20.9	116
6.2.1	Growth rate of PPP\$ GDP/worker, %.....	2.3	64
6.2.2	New businesses/th pop. 15–64.....	0.7	74
6.2.3	Computer software spending, % GDP.....	n/a	n/a
6.2.4	ISO 9001 quality certificates/bn PPP\$ GDP	0.1	137 ○
6.3	Knowledge diffusion	28.5	60
6.3.1	Royalty & license fees receipts/th GDP.....	n/a	n/a
6.3.2	High-tech exports less re-exports, %.....	0.2	104
6.3.3	Computer & comm. service exports, %	27.4	68
6.3.4	FDI net outflows, % GDP	0.0	95
7	Creative outputs	25.7	98
7.1	Creative intangibles.....	44.4	54
7.1.1	Domestic res trademark reg/bn PPP\$ GDP.....	n/a	n/a
7.1.2	Madrid resident trademark reg/bn PPP\$ GDP.....	n/a	n/a
7.1.3	ICT & business model creation†	44.3	97
7.1.4	ICT & organizational model creation†	44.4	81
7.2	Creative goods & services	9.5	102
7.2.1	Recreation & culture consumption, %.....	3.1	69
7.2.2	National feature films/mn pop. 15–69.....	n/a	n/a
7.2.3	Paid-for dailies, circulation/th pop. 15–69.....	14.2	109
7.2.4	Creative goods exports, %.....	0.1	116
7.2.5	Creative services exports, %.....	n/a	n/a
7.3	Online creativity.....	4.6	132 ○
7.3.1	Generic top-level domains (TLDs)/th pop. 15–69.....	0.4	112
7.3.2	Country-code TLDs/th pop. 15–69.....	0.0	138 ○
7.3.3	Wikipedia monthly edits/mn pop. 15–69.....	23.1	116 ○
7.3.4	Video uploads on YouTube/pop. 15–69.....	18.0	125 ○

Greece

Key indicators

Population (millions)	11.2
GDP per capita, PPP\$	27,624.3
GDP (US\$ billions)	312.0

	Score (0–100) or value (hard data)	Rank
Global Innovation Index 2012 (out of 141).....	35.3	66
Innovation Output Sub-Index	26.5	82
Innovation Input Sub-Index	44.0	50
Innovation Efficiency Index	0.6	124 ○
Global Innovation Index 2011 (out of 125)	63	
GII 2012 rank among GII 2011 economies (125)	64	

1	Institutions.....	60.7	59
1.1	Political environment	64.7	51
1.1.1	Political stability*.....	62.6	78
1.1.2	Government effectiveness*.....	54.6	46
1.1.3	Press freedom*.....	77.0	57
1.2	Regulatory environment.....	71.7	46
1.2.1	Regulatory quality*.....	68.3	42
1.2.2	Rule of law*.....	64.1	42
1.2.3	Cost of redundancy dismissal, salary weeks.....	19.5	88
1.3	Business environment	45.8	79
1.3.1	Ease of starting a business*.....	12.2	123 ○
1.3.2	Ease of resolving insolvency*.....	68.3	45
1.3.3	Ease of paying taxes*.....	56.8	61
2	Human capital & research.....	45.6	39
2.1	Education.....	58.5	41
2.1.1	Current expenditure on education, % GNI	3.3	95
2.1.2	Public expenditure/pupil, % GDP/cap.....	20.7	51
2.1.3	School life expectancy, years.....	16.3	15 ●
2.1.4	PISA scales in reading, maths, & science.....	473.0	36
2.1.5	Pupil-teacher ratio, secondary	7.9	9 ●
2.2	Tertiary education	56.6	9 ●
2.2.1	Tertiary enrolment, % gross.....	89.4	4 ●
2.2.2	Graduates in science & engineering, %	24.9	26
2.2.3	Tertiary inbound mobility, %.....	3.5	39
2.2.4	Gross tertiary outbound enrolment, %	4.6	13 ●
2.3	Research & development (R&D).....	21.7	71
2.3.1	Researchers, headcounts/mn pop.	1,873.5	40
2.3.2	Gross expenditure on R&D, % GDP.....	0.6	50
2.3.3	Quality of scientific research institutions†	38.2	87
3	Infrastructure.....	43.2	43
3.1	Information & communication technologies (ICT).....	50.2	42
3.1.1	ICT access*.....	63.7	39
3.1.2	ICT use*.....	45.2	31
3.1.3	Government's online service*.....	57.5	48
3.1.4	E-participation*.....	34.2	44
3.2	General infrastructure	36.3	68
3.2.1	Electricity output, kWh/cap.....	5,433.6	40
3.2.2	Electricity consumption, kWh/cap.....	5,703.8	36
3.2.3	Quality of trade & transport infrastructure*.....	48.5	44
3.2.4	Gross capital formation, % GDP.....	16.2	125 ○
3.3	Ecological sustainability	43.1	33
3.3.1	GDP/unit of energy use, 2000 PPP\$/kg oil eq.....	9.4	17 ●
3.3.2	Environmental performance*.....	60.0	32
3.3.3	ISO 14001 environmental certificates/bn PPP\$ GDP	1.8	47
4	Market sophistication	34.8	88
4.1	Credit	39.0	46
4.1.1	Ease of getting credit*.....	38.7	72
4.1.2	Domestic credit to private sector, % GDP.....	115.9	24 ●
4.1.3	Microfinance gross loans, % GDP	n/a	n/a

4.2	Investment.....	6.1	123 ○
4.2.1	Ease of protecting investors*.....	7.1	123 ○
4.2.2	Market capitalization, % GDP.....	23.8	70
4.2.3	Total value of stocks traded, % GDP.....	14.1	43
4.2.4	Venture capital deals/tr PPP\$ GDP.....	0.0	65 ○
4.3	Trade & competition	59.4	91
4.3.1	Applied tariff rate, weighted mean, %.....	1.6	11
4.3.2	Non-agricultural mkt access weighted tariff, %.....	2.0	92
4.3.3	Imports of goods & services, % GDP.....	30.4	106
4.3.4	Exports of goods & services, % GDP.....	21.5	121
4.3.5	Intensity of local competition†	60.7	78
5	Business sophistication	35.8	88
5.1	Knowledge workers.....	49.1	58
5.1.1	Knowledge-intensive employment, %.....	33.5	34
5.1.2	Firms offering formal training, % firms.....	20.0	90
5.1.3	R&D performed by business, %.....	26.9	58
5.1.4	R&D financed by business, %	31.1	49
5.1.5	GMAT mean score.....	527.5	54
5.1.6	GMAT test takers/mn pop. 20–34.....	700.7	7 ●
5.2	Innovation linkages	28.1	108
5.2.1	University/industry research collaboration†	31.2	114
5.2.2	State of cluster development†	31.7	110
5.2.3	R&D financed by abroad, %.....	19.0	13 ●
5.2.4	JV–strategic alliance deals/tr PPP\$ GDP	20.7	65
5.2.5	PCT patent filings with foreign inventor, %.....	12.8	88 ○
5.3	Knowledge absorption	30.1	94
5.3.1	Royalty & license fees payments/th GDP.....	2.1	47
5.3.2	High-tech imports less re-imports, %	8.8	61
5.3.3	Computer & comm. service imports, %.....	23.8	88
5.3.4	FDI net inflows, % GDP.....	0.7	116
6	Knowledge & technology outputs	25.6	75
6.1	Knowledge creation.....	29.9	53
6.1.1	Domestic resident patent ap/bn PPP\$ GDP	2.6	48
6.1.2	PCT resident patent ap/bn PPP\$ GDP	0.3	51
6.1.3	Domestic res utility model ap/bn PPP\$ GDP.....	0.1	61 ○
6.1.4	Scientific & technical articles/bn PPP\$ GDP.....	14.8	28
6.2	Knowledge impact	27.1	92
6.2.1	Growth rate of PPP\$ GDP/worker, %.....	-1.5	112 ○
6.2.2	New businesses/th pop. 15–64.....	1.2	59
6.2.3	Computer software spending, % GDP.....	0.3	27
6.2.4	ISO 9001 quality certificates/bn PPP\$ GDP	13.6	39
6.3	Knowledge diffusion	19.7	105
6.3.1	Royalty & license fees receipts/th GDP.....	0.2	57
6.3.2	High-tech exports less re-exports, %.....	5.8	39
6.3.3	Computer & comm. service exports, %	9.3	117 ○
6.3.4	FDI net outflows, % GDP	0.3	64
7	Creative outputs	27.5	92
7.1	Creative intangibles.....	19.3	131 ○
7.1.1	Domestic res trademark reg/bn PPP\$ GDP.....	5.0	81 ○
7.1.2	Madrid resident trademark reg/bn PPP\$ GDP.....	0.2	49
7.1.3	ICT & business model creation†	37.7	118 ○
7.1.4	ICT & organizational model creation†	33.4	113
7.2	Creative goods & services	32.0	39
7.2.1	Recreation & culture consumption, %.....	7.5	30
7.2.2	National feature films/mn pop. 15–69.....	2.1	50
7.2.3	Paid-for dailies, circulation/th pop. 15–69.....	135.6	45
7.2.4	Creative goods exports, %.....	3.6	21 ●
7.2.5	Creative services exports, %.....	1.6	63
7.3	Online creativity.....	39.3	36
7.3.1	Generic top-level domains (TLDs)/th pop. 15–69.....	17.4	39
7.3.2	Country-code TLDs/th pop. 15–69.....	53.8	32
7.3.3	Wikipedia monthly edits/mn pop. 15–69.....	3,205.2	39
7.3.4	Video uploads on YouTube/pop. 15–69.....	69.8	27 ●

Key indicators

Population (millions)	14.7
GDP per capita, PPP\$	5,033.2
GDP (US\$ billions)	46.7

	Score (0–100) or value (hard data)	Rank
Global Innovation Index 2012 (out of 141).....	28.4	99
Innovation Output Sub-Index	23.1	101
Innovation Input Sub-Index	33.7	98
Innovation Efficiency Index	0.7	89
Global Innovation Index 2011 (out of 125)	86	
GII 2012 rank among GII 2011 economies (125)	94	

1	Institutions.....	39.9	118
1.1	Political environment	46.0	99
1.1.1	Political stability*.....	46.1	108
1.1.2	Government effectiveness*.....	22.4	112
1.1.3	Press freedom*.....	69.6	76
1.2	Regulatory environment.....	48.1	119
1.2.1	Regulatory quality*.....	47.2	83
1.2.2	Rule of law*.....	20.3	125
1.2.3	Cost of redundancy dismissal, salary weeks.....	27.0	114
1.3	Business environment	25.6	119
1.3.1	Ease of starting a business*.....	4.3	134 ○
1.3.2	Ease of resolving insolvency*.....	35.9	90
1.3.3	Ease of paying taxes*.....	36.6	88
2	Human capital & research.....	23.4	115
2.1	Education.....	36.4	115
2.1.1	Current expenditure on education, % GNI	2.9	111
2.1.2	Public expenditure/pupil, % GDP/cap.....	10.1	109 ○
2.1.3	School life expectancy, years.....	10.7	110
2.1.4	PISA scales in reading, maths, & science.....	n/a	n/a
2.1.5	Pupil-teacher ratio, secondary	16.0	75
2.2	Tertiary education	21.6	98
2.2.1	Tertiary enrolment, % gross.....	17.8	92
2.2.2	Graduates in science & engineering, %	16.8	67
2.2.3	Tertiary inbound mobility, %.....	n/a	n/a
2.2.4	Gross tertiary outbound enrolment, %	0.2	124
2.3	Research & development (R&D).....	12.2	119
2.3.1	Researchers, headcounts/mn pop.	51.9	113 ○
2.3.2	Gross expenditure on R&D, % GDP.....	0.1	103
2.3.3	Quality of scientific research institutions†.....	35.3	100
3	Infrastructure.....	26.5	101
3.1	Information & communication technologies (ICT).....	27.6	84
3.1.1	ICT access*.....	34.4	91
3.1.2	ICT use*	5.7	103
3.1.3	Government's online service*.....	46.4	78
3.1.4	E-participation*.....	23.7	59
3.2	General infrastructure	22.3	132 ○
3.2.1	Electricity output, kWh/cap.....	645.1	102
3.2.2	Electricity consumption, kWh/cap.....	548.4	104
3.2.3	Quality of trade & transport infrastructure*.....	34.3	84
3.2.4	Gross capital formation, % GDP.....	14.7	131 ○
3.3	Ecological sustainability	29.6	71
3.3.1	GDP/unit of energy use, 2000 PPP\$/kg oil eq.....	6.2	50
3.3.2	Environmental performance*.....	51.9	73
3.3.3	ISO 14001 environmental certificates/bn PPP\$ GDP	0.3	92
4	Market sophistication	36.5	80
4.1	Credit	32.9	60
4.1.1	Ease of getting credit*	87.6	8 ●
4.1.2	Domestic credit to private sector, % GDP.....	23.4	107
4.1.3	Microfinance gross loans, % GDP.....	0.4	47

4.2	Investment.....	7.9	116
4.2.1	Ease of protecting investors*.....	15.8	110
4.2.2	Market capitalization, % GDP.....	n/a	n/a
4.2.3	Total value of stocks traded, % GDP.....	n/a	n/a
4.2.4	Venture capital deals/tr PPP\$ GDP.....	0.0	65 ○
4.3	Trade & competition	68.8	36 ●
4.3.1	Applied tariff rate, weighted mean, %.....	2.4	47 ●
4.3.2	Non-agricultural mkt access weighted tariff, %.....	0.0	3 ●
4.3.3	Imports of goods & services, % GDP.....	36.0	86
4.3.4	Exports of goods & services, % GDP.....	25.1	111
4.3.5	Intensity of local competition†	69.0	48 ●
5	Business sophistication	42.1	54 ●
5.1	Knowledge workers.....	45.7	68
5.1.1	Knowledge-intensive employment, %.....	n/a	n/a
5.1.2	Firms offering formal training, % firms.....	51.9	25 ●
5.1.3	R&D performed by business, %.....	0.9	86 ○
5.1.4	R&D financed by business, %	n/a	n/a
5.1.5	GMAT mean score.....	508.0	69
5.1.6	GMAT test takers/mn pop. 20–34.....	32.7	100
5.2	Innovation linkages	54.6	11 ●
5.2.1	University/industry research collaboration†	46.4	52 ●
5.2.2	State of cluster development†	45.2	53 ●
5.2.3	R&D financed by abroad, %.....	48.4	5 ●
5.2.4	JV–strategic alliance deals/tr PPP\$ GDP	2.7	112
5.2.5	PCT patent filings with foreign inventor, %.....	n/a	n/a
5.3	Knowledge absorption	25.9	121
5.3.1	Royalty & license fees payments/th GDP.....	2.2	42 ●
5.3.2	High-tech imports less re-imports, %	8.9	60
5.3.3	Computer & comm. service imports, %.....	9.1	126 ○
5.3.4	FDI net inflows, % GDP.....	1.7	88
6	Knowledge & technology outputs	16.5	126
6.1	Knowledge creation.....	8.5	116
6.1.1	Domestic resident patent ap/bn PPP\$ GDP	0.1	106 ○
6.1.2	PCT resident patent ap/bn PPP\$ GDP	0.0	100
6.1.3	Domestic res utility model ap/bn PPP\$ GDP.....	0.1	54
6.1.4	Scientific & technical articles/bn PPP\$ GDP.....	0.3	135 ○
6.2	Knowledge impact	19.7	122
6.2.1	Growth rate of PPP\$ GDP/worker, %.....	–0.8	108
6.2.2	New businesses/th pop. 15–64.....	0.7	75
6.2.3	Computer software spending, % GDP.....	n/a	n/a
6.2.4	ISO 9001 quality certificates/bn PPP\$ GDP	2.3	90
6.3	Knowledge diffusion	21.2	99
6.3.1	Royalty & license fees receipts/th GDP.....	0.3	53
6.3.2	High-tech exports less re-exports, %.....	2.7	54
6.3.3	Computer & comm. service exports, %	19.5	93
6.3.4	FDI net outflows, % GDP	0.1	90
7	Creative outputs	29.7	77
7.1	Creative intangibles.....	45.9	44 ●
7.1.1	Domestic res trademark reg/bn PPP\$ GDP.....	n/a	n/a
7.1.2	Madrid resident trademark reg/bn PPP\$ GDP.....	n/a	n/a
7.1.3	ICT & business model creation†	60.8	37 ●
7.1.4	ICT & organizational model creation†	30.9	119
7.2	Creative goods & services	12.4	93
7.2.1	Recreation & culture consumption, %.....	3.3	67
7.2.2	National feature films/mn pop. 15–69.....	0.1	98 ○
7.2.3	Paid-for dailies, circulation/th pop. 15–69.....	63.1	78
7.2.4	Creative goods exports, %.....	1.5	56
7.2.5	Creative services exports, %.....	0.2	97
7.3	Online creativity.....	14.8	94
7.3.1	Generic top-level domains (TLDs)/th pop. 15–69.....	4.0	65
7.3.2	Country-code TLDs/th pop. 15–69.....	11.1	96
7.3.3	Wikipedia monthly edits/mn pop. 15–69.....	499.2	78
7.3.4	Video uploads on YouTube/pop. 15–69.....	41.4	95

Guyana

Key indicators

Population (millions)	0.8
GDP per capita, PPP\$	7,541.4
GDP (US\$ billions)	2.5

	Score (0–100) or value (hard data)	Rank
Global Innovation Index 2012 (out of 141).....	33.7	77
Innovation Output Sub-Index	30.6	64
Innovation Input Sub-Index	36.7	86
Innovation Efficiency Index	0.8	26
Global Innovation Index 2011 (out of 125)		61
GII 2012 rank among GII 2011 economies (125)		75

1	Institutions.....	49.7	88
1.1	Political environment	56.8	68
1.1.1	Political stability*.....	53.1	96
1.1.2	Government effectiveness*.....	37.4	74
1.1.3	Press freedom*.....	80.1	49
1.2	Regulatory environment.....	59.7	94
1.2.1	Regulatory quality*.....	37.9	109
1.2.2	Rule of law*.....	35.1	87
1.2.3	Cost of redundancy dismissal, salary weeks.....	16.7	77
1.3	Business environment	32.6	102
1.3.1	Ease of starting a business*.....	46.7	75
1.3.2	Ease of resolving insolvency*.....	16.5	117
1.3.3	Ease of paying taxes*.....	34.5	91
2	Human capital & research.....	29.8	94
2.1	Education.....	35.3	117
2.1.1	Current expenditure on education, % GNI	3.4	92
2.1.2	Public expenditure/pupil, % GDP/cap.....	13.1	94
2.1.3	School life expectancy, years.....	10.3	116
2.1.4	PISA scales in reading, maths, & science.....	n/a	n/a
2.1.5	Pupil-teacher ratio, secondary	21.4	98
2.2	Tertiary education	18.2	110
2.2.1	Tertiary enrolment, % gross.....	11.9	99
2.2.2	Graduates in science & engineering, %	14.4	80
2.2.3	Tertiary inbound mobility, %.....	0.5	88
2.2.4	Gross tertiary outbound enrolment, %	1.2	67
2.3	Research & development (R&D).....	35.8	33
2.3.1	Researchers, headcounts/mn pop.	n/a	n/a
2.3.2	Gross expenditure on R&D, % GDP.....	n/a	n/a
2.3.3	Quality of scientific research institutions†.....	35.8	97
3	Infrastructure.....	19.4	128 ○
3.1	Information & communication technologies (ICT).....	16.9	114
3.1.1	ICT access*.....	31.1	100
3.1.2	ICT use*.....	10.8	86
3.1.3	Government's online service*.....	25.5	123 ○
3.1.4	E-participation*.....	0.0	127 ○
3.2	General infrastructure	40.1	48
3.2.1	Electricity output, kWh/cap.....	n/a	n/a
3.2.2	Electricity consumption, kWh/cap.....	n/a	n/a
3.2.3	Quality of trade & transport infrastructure*.....	24.8	123 ○
3.2.4	Gross capital formation, % GDP.....	26.7	27
3.3	Ecological sustainability	1.3	133 ○
3.3.1	GDP/unit of energy use, 2000 PPP\$/kg oil eq.....	n/a	n/a
3.3.2	Environmental performance*.....	n/a	n/a
3.3.3	ISO 14001 environmental certificates/bn PPP\$ GDP.....	0.2	111
4	Market sophistication	32.7	99
4.1	Credit	6.9	128 ○
4.1.1	Ease of getting credit*.....	2.8	126 ○
4.1.2	Domestic credit to private sector, % GDP.....	37.8	85
4.1.3	Microfinance gross loans, % GDP.....	n/a	n/a

4.2	Investment.....	13.0	107
4.2.1	Ease of protecting investors*.....	46.7	60
4.2.2	Market capitalization, % GDP.....	15.3	89
4.2.3	Total value of stocks traded, % GDP.....	0.0	103 ○
4.2.4	Venture capital deals/tr PPP\$ GDP.....	0.0	65 ○
4.3	Trade & competition	78.2	7 ●
4.3.1	Applied tariff rate, weighted mean, %.....	6.9	98
4.3.2	Non-agricultural mkt access weighted tariff, %.....	0.0	7 ●
4.3.3	Imports of goods & services, % GDP.....	119.2	4 ●
4.3.4	Exports of goods & services, % GDP.....	84.6	9 ●
4.3.5	Intensity of local competition†.....	61.7	75
5	Business sophistication	52.1	23
5.1	Knowledge workers.....	50.8	54
5.1.1	Knowledge-intensive employment, %.....	12.7	92 ○
5.1.2	Firms offering formal training, % firms.....	63.0	10 ●
5.1.3	R&D performed by business, %.....	n/a	n/a
5.1.4	R&D financed by business, %	n/a	n/a
5.1.5	GMAT mean score.....	465.2	101
5.1.6	GMAT test takers/mn pop. 20–34.....	192.9	30
5.2	Innovation linkages	48.8	26
5.2.1	University/industry research collaboration†.....	34.5	109
5.2.2	State of cluster development†.....	37.6	84
5.2.3	R&D financed by abroad, %.....	n/a	n/a
5.2.4	JV-strategic alliance deals/tr PPP\$ GDP.....	371.7	1 ●
5.2.5	PCT patent filings with foreign inventor, %.....	n/a	n/a
5.3	Knowledge absorption	56.6	10 ●
5.3.1	Royalty & license fees payments/th GDP.....	12.4	1 ●
5.3.2	High-tech imports less re-imports, %	4.5	113 ○
5.3.3	Computer & comm. service imports, %.....	42.1	31
5.3.4	FDI net inflows, % GDP.....	8.4	17 ●
6	Knowledge & technology outputs	25.5	76
6.1	Knowledge creation.....	1.6	137 ○
6.1.1	Domestic resident patent ap/bn PPP\$ GDP.....	n/a	n/a
6.1.2	PCT resident patent ap/bn PPP\$ GDP.....	n/a	n/a
6.1.3	Domestic res utility model ap/bn PPP\$ GDP.....	n/a	n/a
6.1.4	Scientific & technical articles/bn PPP\$ GDP.....	0.5	129 ○
6.2	Knowledge impact	14.8	129 ○
6.2.1	Growth rate of PPP\$ GDP/worker, %.....	n/a	n/a
6.2.2	New businesses/th pop. 15–64.....	n/a	n/a
6.2.3	Computer software spending, % GDP.....	n/a	n/a
6.2.4	ISO 9001 quality certificates/bn PPP\$ GDP.....	1.0	115
6.3	Knowledge diffusion	60.2	9 ●
6.3.1	Royalty & license fees receipts/th GDP.....	20.8	1 ●
6.3.2	High-tech exports less re-exports, %.....	0.0	118 ○
6.3.3	Computer & comm. service exports, %	62.6	11 ●
6.3.4	FDI net outflows, % GDP.....	n/a	n/a
7	Creative outputs	35.7	51
7.1	Creative intangibles.....	47.8	37
7.1.1	Domestic res trademark reg/bn PPP\$ GDP.....	n/a	n/a
7.1.2	Madrid resident trademark reg/bn PPP\$ GDP.....	n/a	n/a
7.1.3	ICT & business model creation†.....	44.5	93
7.1.4	ICT & organizational model creation†.....	51.2	60
7.2	Creative goods & services	24.8	58
7.2.1	Recreation & culture consumption, %.....	n/a	n/a
7.2.2	National feature films/mn pop. 15–69.....	16.9	1 ●
7.2.3	Paid-for dailies, circulation/th pop. 15–69.....	63.3	77
7.2.4	Creative goods exports, %.....	0.5	86
7.2.5	Creative services exports, %.....	3.5	47
7.3	Online creativity.....	22.2	68
7.3.1	Generic top-level domains (TLDs)/th pop. 15–69.....	1.3	92
7.3.2	Country-code TLDs/th pop. 15–69.....	21.7	71
7.3.3	Wikipedia monthly edits/mn pop. 15–69.....	n/a	n/a
7.3.4	Video uploads on YouTube/pop. 15–69.....	43.6	91

Key indicators

Population (millions)	8.2
GDP per capita, PPP\$	4,350.1
GDP (US\$ billions)	17.3

	Score (0–100) or value (hard data)	Rank
Global Innovation Index 2012 (out of 141).....	26.3	111
Innovation Output Sub-Index	20.9	116
Innovation Input Sub-Index	31.8	105
Innovation Efficiency Index	0.7	99
Global Innovation Index 2011 (out of 125)	98	
GII 2012 rank among GII 2011 economies (125)	103	

1	Institutions.....	36.4	127	○
1.1	Political environment	42.6	110	
1.1.1	Political stability*.....	52.4	98	
1.1.2	Government effectiveness*.....	23.4	109	
1.1.3	Press freedom*.....	52.0	109	
1.2	Regulatory environment.....	45.7	123	○
1.2.1	Regulatory quality*.....	46.5	86	
1.2.2	Rule of law*.....	24.7	115	
1.2.3	Cost of redundancy dismissal, salary weeks.....	30.3	125	○
1.3	Business environment	20.8	126	○
1.3.1	Ease of starting a business*.....	14.3	120	
1.3.2	Ease of resolving insolvency*.....	20.8	111	
1.3.3	Ease of paying taxes*.....	27.3	102	
2	Human capital & research.....	27.1	104	
2.1	Education.....	54.2	59	
2.1.1	Current expenditure on education, % GNI	3.5	87	
2.1.2	Public expenditure/pupil, % GDP/cap.....	n/a	n/a	
2.1.3	School life expectancy, years.....	11.4	98	
2.1.4	PISA scales in reading, maths, & science.....	n/a	n/a	
2.1.5	Pupil-teacher ratio, secondary	11.3	40	●
2.2	Tertiary education	16.5	114	
2.2.1	Tertiary enrolment, % gross.....	18.8	89	
2.2.2	Graduates in science & engineering, %	12.6	89	
2.2.3	Tertiary inbound mobility, %.....	0.7	81	
2.2.4	Gross tertiary outbound enrolment, %	0.3	112	
2.3	Research & development (R&D).....	10.6	125	○
2.3.1	Researchers, headcounts/mn pop.	81.6	103	
2.3.2	Gross expenditure on R&D, % GDP.....	0.0	109	○
2.3.3	Quality of scientific research institutions†.....	30.9	108	
3	Infrastructure.....	27.6	96	
3.1	Information & communication technologies (ICT).....	22.8	97	
3.1.1	ICT access*.....	34.5	90	
3.1.2	ICT use*	5.6	104	
3.1.3	Government's online service*.....	37.9	96	
3.1.4	E-participation*.....	13.2	83	
3.2	General infrastructure	27.9	114	
3.2.1	Electricity output, kWh/cap.....	835.2	94	
3.2.2	Electricity consumption, kWh/cap.....	676.8	98	
3.2.3	Quality of trade & transport infrastructure*.....	32.8	93	
3.2.4	Gross capital formation, % GDP.....	23.0	61	
3.3	Ecological sustainability	32.0	64	
3.3.1	GDP/unit of energy use, 2000 PPP\$/kg oil eq.....	7.2	34	●
3.3.2	Environmental performance*.....	52.5	68	
3.3.3	ISO 14001 environmental certificates/bn PPP\$ GDP	0.3	98	
4	Market sophistication	34.1	89	
4.1	Credit	35.6	51	●
4.1.1	Ease of getting credit*	71.6	35	●
4.1.2	Domestic credit to private sector, % GDP.....	50.5	63	
4.1.3	Microfinance gross loans, % GDP	1.6	26	●

4.2	Investment.....	1.8	137	○
4.2.1	Ease of protecting investors*.....	3.5	131	○
4.2.2	Market capitalization, % GDP.....	n/a	n/a	
4.2.3	Total value of stocks traded, % GDP.....	n/a	n/a	
4.2.4	Venture capital deals/tr PPP\$ GDP.....	0.0	65	○
4.3	Trade & competition	64.9	63	
4.3.1	Applied tariff rate, weighted mean, %.....	6.5	96	
4.3.2	Non-agricultural mkt access weighted tariff, %.....	0.4	48	●
4.3.3	Imports of goods & services, % GDP	64.6	29	●
4.3.4	Exports of goods & services, % GDP	43.9	55	●
4.3.5	Intensity of local competition†	57.5	94	
5	Business sophistication	33.8	97	
5.1	Knowledge workers.....	36.9	99	
5.1.1	Knowledge-intensive employment, %.....	12.8	91	○
5.1.2	Firms offering formal training, % firms.....	35.8	50	
5.1.3	R&D performed by business, %.....	n/a	n/a	
5.1.4	R&D financed by business, %	n/a	n/a	
5.1.5	GMAT mean score.....	473.6	90	
5.1.6	GMAT test takers/mn pop. 20–34.....	44.8	85	
5.2	Innovation linkages	32.3	86	
5.2.1	University/industry research collaboration†	39.4	82	
5.2.2	State of cluster development†	41.3	69	
5.2.3	R&D financed by abroad, %.....	n/a	n/a	
5.2.4	JV–strategic alliance deals/tr PPP\$ GDP	0.0	114	○
5.2.5	PCT patent filings with foreign inventor, %.....	n/a	n/a	
5.3	Knowledge absorption	32.1	86	
5.3.1	Royalty & license fees payments/th GDP.....	2.0	48	●
5.3.2	High-tech imports less re-imports, %	8.8	62	
5.3.3	Computer & comm. service imports, %.....	25.0	85	
5.3.4	FDI net inflows, % GDP	5.2	34	●
6	Knowledge & technology outputs	17.2	124	○
6.1	Knowledge creation.....	9.0	115	
6.1.1	Domestic resident patent ap/bn PPP\$ GDP	0.3	89	
6.1.2	PCT resident patent ap/bn PPP\$ GDP	0.0	99	○
6.1.3	Domestic res utility model ap/bn PPP\$ GDP.....	0.2	50	
6.1.4	Scientific & technical articles/bn PPP\$ GDP.....	0.2	137	○
6.2	Knowledge impact	20.9	117	
6.2.1	Growth rate of PPP\$ GDP/worker, %.....	n/a	n/a	
6.2.2	New businesses/th pop. 15–64.....	n/a	n/a	
6.2.3	Computer software spending, % GDP.....	0.2	44	
6.2.4	ISO 9001 quality certificates/bn PPP\$ GDP	2.8	83	
6.3	Knowledge diffusion	21.7	93	
6.3.1	Royalty & license fees receipts/th GDP.....	0.1	70	
6.3.2	High-tech exports less re-exports, %.....	0.4	90	
6.3.3	Computer & comm. service exports, %	27.3	69	
6.3.4	FDI net outflows, % GDP	0.0	104	○
7	Creative outputs	24.6	104	
7.1	Creative intangibles.....	37.9	82	
7.1.1	Domestic res trademark reg/bn PPP\$ GDP.....	36.3	43	
7.1.2	Madrid resident trademark reg/bn PPP\$ GDP.....	n/a	n/a	
7.1.3	ICT & business model creation†	57.1	50	●
7.1.4	ICT & organizational model creation†	39.6	100	
7.2	Creative goods & services	9.1	105	
7.2.1	Recreation & culture consumption, %.....	3.7	63	
7.2.2	National feature films/mn pop. 15–69.....	0.2	94	○
7.2.3	Paid-for dailies, circulation/th pop. 15–69.....	42.6	85	
7.2.4	Creative goods exports, %.....	0.2	110	
7.2.5	Creative services exports, %.....	1.1	68	
7.3	Online creativity.....	13.3	100	
7.3.1	Generic top-level domains (TLDs)/th pop. 15–69.....	0.6	110	
7.3.2	Country-code TLDs/th pop. 15–69.....	11.6	93	
7.3.3	Wikipedia monthly edits/mn pop. 15–69.....	108.9	104	
7.3.4	Video uploads on YouTube/pop. 15–69.....	40.6	98	

Hong Kong (China)

Key indicators

Population (millions)	7.2
GDP per capita, PPP\$	49,342.0
GDP (US\$ billions)	246.9

	Score (0–100) or value (hard data)	Rank
Global Innovation Index 2012 (out of 141).....	58.7	8
Innovation Output Sub-Index	45.5	25
Innovation Input Sub-Index	72.0	2
Innovation Efficiency Index	0.6	110 ○
Global Innovation Index 2011 (out of 125)	4	4
GII 2012 rank among GII 2011 economies (125)	8	8

1	Institutions.....	92.6	7
1.1	Political environment	85.2	17
1.1.1	Political stability*.....	87.2	21
1.1.2	Government effectiveness*.....	86.6	11
1.1.3	Press freedom*.....	81.8	47
1.2	Regulatory environment.....	97.2	7
1.2.1	Regulatory quality*.....	99.7	2
1.2.2	Rule of law*.....	89.1	18
1.2.3	Cost of redundancy dismissal, salary weeks	8.0	1 ●
1.3	Business environment	95.4	3
1.3.1	Ease of starting a business*.....	96.4	6
1.3.2	Ease of resolving insolvency*.....	90.6	14
1.3.3	Ease of paying taxes*.....	99.2	2
2	Human capital & research.....	51.5	26
2.1	Education.....	53.5	63
2.1.1	Current expenditure on education, % GNI	3.1	103 ○
2.1.2	Public expenditure/pupil, % GDP/cap.....	19.5	64 ○
2.1.3	School life expectancy, years.....	15.5	25
2.1.4	PISA scales in reading, maths, & science	545.6	2
2.1.5	Pupil-teacher ratio, secondary	17.8	85 ○
2.2	Tertiary education	66.9	4
2.2.1	Tertiary enrolment, % gross.....	59.7	34
2.2.2	Graduates in science & engineering, %	34.7	6
2.2.3	Tertiary inbound mobility, %.....	3.9	36
2.2.4	Gross tertiary outbound enrolment, %	7.4	7
2.3	Research & development (R&D).....	34.3	36
2.3.1	Researchers, headcounts/mn pop.	3,293.4	29
2.3.2	Gross expenditure on R&D, % GDP.....	0.8	41
2.3.3	Quality of scientific research institutions†	60.3	31
3	Infrastructure.....	63.4	4
3.1	Information & communication technologies (ICT).....	77.6	7
3.1.1	ICT access*.....	90.6	1 ●
3.1.2	ICT use*.....	64.6	10
3.1.3	Government's online service*.....	n/a	n/a
3.1.4	E-participation*.....	n/a	n/a
3.2	General infrastructure	50.6	25
3.2.1	Electricity output, kWh/cap.....	5,482.2	39
3.2.2	Electricity consumption, kWh/cap.....	5,924.3	33
3.2.3	Quality of trade & transport infrastructure*	75.0	13
3.2.4	Gross capital formation, % GDP.....	23.7	53
3.3	Ecological sustainability	61.9	7
3.3.1	GDP/unit of energy use, 2000 PPP\$/kg oil eq.....	16.0	1 ●
3.3.2	Environmental performance*.....	n/a	n/a
3.3.3	ISO 14001 environmental certificates/bn PPP\$ GDP	3.1	31
4	Market sophistication	85.5	1 ●
4.1	Credit	81.4	3
4.1.1	Ease of getting credit*.....	97.1	4
4.1.2	Domestic credit to private sector, % GDP	189.0	9
4.1.3	Microfinance gross loans, % GDP	n/a	n/a

4.2	Investment.....	91.0	1 ●
4.2.1	Ease of protecting investors*.....	98.5	3
4.2.2	Market capitalization, % GDP.....	1,207.9	1 ●
4.2.3	Total value of stocks traded, % GDP	711.7	1 ●
4.2.4	Venture capital deals/tr PPP\$ GDP.....	42.3	29
4.3	Trade & competition	84.2	2
4.3.1	Applied tariff rate, weighted mean, %.....	0.0	1 ●
4.3.2	Non-agricultural mkt access weighted tariff, %.....	2.8	127 ○
4.3.3	Imports of goods & services, % GDP	217.3	1 ●
4.3.4	Exports of goods & services, % GDP	223.0	1 ●
4.3.5	Intensity of local competition†	78.0	13
5	Business sophistication	66.9	3
5.1	Knowledge workers.....	71.4	21
5.1.1	Knowledge-intensive employment, %.....	36.0	30
5.1.2	Firms offering formal training, % firms.....	n/a	n/a
5.1.3	R&D performed by business, %.....	42.7	40
5.1.4	R&D financed by business, %	45.8	29
5.1.5	GMAT mean score.....	574.0	19
5.1.6	GMAT test takers/mn pop. 20–34.....	1,458.4	3
5.2	Innovation linkages	54.2	14
5.2.1	University/industry research collaboration†	62.3	22
5.2.2	State of cluster development†	61.5	15
5.2.3	R&D financed by abroad, %.....	6.1	54 ○
5.2.4	JV-strategic alliance deals/tr PPP\$ GDP	104.2	12
5.2.5	PCT patent filings with foreign inventor, %.....	100.0	1 ●
5.3	Knowledge absorption	75.0	4
5.3.1	Royalty & license fees payments/th GDP.....	8.1	8
5.3.2	High-tech imports less re-imports, %	43.5	1 ●
5.3.3	Computer & comm. service imports, %.....	27.2	73 ○
5.3.4	FDI net inflows, % GDP.....	30.7	1 ●
6	Knowledge & technology outputs	38.4	34
6.1	Knowledge creation.....	5.7	119 ○
6.1.1	Domestic resident patent ap/bn PPP\$ GDP	0.4	85 ○
6.1.2	PCT resident patent ap/bn PPP\$ GDP	n/a	n/a
6.1.3	Domestic res utility model ap/bn PPP\$ GDP	1.2	30 ○
6.1.4	Scientific & technical articles/bn PPP\$ GDP	n/a	n/a
6.2	Knowledge impact	55.9	8
6.2.1	Growth rate of PPP\$ GDP/worker, %	5.1	18
6.2.2	New businesses/th pop. 15–64.....	19.2	1 ●
6.2.3	Computer software spending, % GDP.....	0.2	39 ○
6.2.4	ISO 9001 quality certificates/bn PPP\$ GDP	12.1	43
6.3	Knowledge diffusion	53.5	17
6.3.1	Royalty & license fees receipts/th GDP.....	1.8	21
6.3.2	High-tech exports less re-exports, %.....	17.1	14
6.3.3	Computer & comm. service exports, %	39.9	42
6.3.4	FDI net outflows, % GDP	33.9	1 ●
7	Creative outputs	52.6	11
7.1	Creative intangibles.....	50.3	27
7.1.1	Domestic res trademark reg/bn PPP\$ GDP.....	45.8	38
7.1.2	Madrid resident trademark reg/bn PPP\$ GDP.....	n/a	n/a
7.1.3	ICT & business model creation†	69.3	18
7.1.4	ICT & organizational model creation†	60.0	26
7.2	Creative goods & services	55.0	4
7.2.1	Recreation & culture consumption, %.....	6.8	39
7.2.2	National feature films/mn pop. 15–69.....	12.8	7
7.2.3	Paid-for dailies, circulation/th pop. 15–69.....	400.8	6
7.2.4	Creative goods exports, %.....	7.1	1 ●
7.2.5	Creative services exports, %.....	0.2	100 ○
7.3	Online creativity.....	54.7	22
7.3.1	Generic top-level domains (TLDs)/th pop. 15–69.....	51.4	19
7.3.2	Country-code TLDs/th pop. 15–69.....	50.9	35
7.3.3	Wikipedia monthly edits/mn pop. 15–69.....	8,435.8	13
7.3.4	Video uploads on YouTube/pop. 15–69.....	73.5	16

Key indicators

Population (millions)	10.0
GDP per capita, PPP\$	19,647.1
GDP (US\$ billions)	147.9

	Score (0–100) or value (hard data)	Rank
Global Innovation Index 2012 (out of 141).....	46.5	31
Innovation Output Sub-Index	41.9	29
Innovation Input Sub-Index	51.2	37
Innovation Efficiency Index	0.8	41
Global Innovation Index 2011 (out of 125)	25	
GII 2012 rank among GII 2011 economies (125)	30	
1 Institutions.....	72.3	32
1.1 Political environment	76.1	32
1.1.1 Political stability*.....	82.5	30
1.1.2 Government effectiveness*.....	59.2	41
1.1.3 Press freedom*.....	86.5	36
1.2 Regulatory environment.....	81.4	34
1.2.1 Regulatory quality*.....	78.5	28
1.2.2 Rule of law*.....	68.3	36
1.2.3 Cost of redundancy dismissal, salary weeks.....	13.4	59
1.3 Business environment	59.4	46
1.3.1 Ease of starting a business*.....	77.6	32
1.3.2 Ease of resolving insolvency*.....	58.9	58
1.3.3 Ease of paying taxes*.....	41.7	82
2 Human capital & research.....	46.0	38
2.1 Education.....	63.5	25
2.1.1 Current expenditure on education, % GNI	5.3	31
2.1.2 Public expenditure/pupil, % GDP/cap.....	24.2	31
2.1.3 School life expectancy, years.....	15.3	30
2.1.4 PISA scales in reading, maths, & science.....	495.7	24
2.1.5 Pupil-teacher ratio, secondary	10.3	32
2.2 Tertiary education	34.1	62
2.2.1 Tertiary enrolment, % gross.....	61.7	29
2.2.2 Graduates in science & engineering, %	14.8	78
2.2.3 Tertiary inbound mobility, %.....	3.7	38
2.2.4 Gross tertiary outbound enrolment, %	1.2	68
2.3 Research & development (R&D).....	40.4	31
2.3.1 Researchers, headcounts/mn pop.	3,366.5	28
2.3.2 Gross expenditure on R&D, % GDP.....	1.1	32
2.3.3 Quality of scientific research institutions†.....	69.7	19
3 Infrastructure.....	48.5	28
3.1 Information & communication technologies (ICT).....	54.8	32
3.1.1 ICT access*.....	63.4	41
3.1.2 ICT use*	42.6	35
3.1.3 Government's online service*.....	68.6	31
3.1.4 E-participation*.....	44.7	36
3.2 General infrastructure	36.1	69
3.2.1 Electricity output, kWh/cap.....	3,732.3	54
3.2.2 Electricity consumption, kWh/cap.....	3,900.1	47
3.2.3 Quality of trade & transport infrastructure*.....	52.0	37
3.2.4 Gross capital formation, % GDP.....	18.4	110 ○
3.3 Ecological sustainability	54.6	13
3.3.1 GDP/unit of energy use, 2000 PPP\$/kg oil eq.....	5.9	55
3.3.2 Environmental performance*.....	57.1	44
3.3.3 ISO 14001 environmental certificates/bn PPP\$ GDP.....	9.7	8 ●
4 Market sophistication	42.2	56
4.1 Credit	31.7	64
4.1.1 Ease of getting credit*	71.6	35
4.1.2 Domestic credit to private sector, % GDP.....	72.6	45
4.1.3 Microfinance gross loans, % GDP.....	0.0	90 ○

4.2 Investment.....	18.5	90
4.2.1 Ease of protecting investors*.....	22.3	100 ○
4.2.2 Market capitalization, % GDP.....	21.2	73
4.2.3 Total value of stocks traded, % GDP.....	20.3	37
4.2.4 Venture capital deals/tr PPP\$ GDP.....	5.1	55
4.3 Trade & competition	76.5	11
4.3.1 Applied tariff rate, weighted mean, %.....	1.6	11
4.3.2 Non-agricultural mkt access weighted tariff, %.....	2.0	92 ○
4.3.3 Imports of goods & services, % GDP.....	80.0	11
4.3.4 Exports of goods & services, % GDP.....	86.5	7 ●
4.3.5 Intensity of local competition†	72.1	37
5 Business sophistication	46.9	38
5.1 Knowledge workers.....	54.7	45
5.1.1 Knowledge-intensive employment, %.....	36.7	27
5.1.2 Firms offering formal training, % firms.....	14.8	97 ○
5.1.3 R&D performed by business, %.....	57.2	25
5.1.4 R&D financed by business, %	46.4	27
5.1.5 GMAT mean score.....	583.8	9 ●
5.1.6 GMAT test takers/mn pop. 20–34.....	72.6	60
5.2 Innovation linkages	31.1	95
5.2.1 University/industry research collaboration†	55.9	31
5.2.2 State of cluster development†	39.1	79
5.2.3 R&D financed by abroad, %.....	10.9	29
5.2.4 JV–strategic alliance deals/tr PPP\$ GDP	12.2	82
5.2.5 PCT patent filings with foreign inventor, %.....	10.8	91 ○
5.3 Knowledge absorption	54.7	12
5.3.1 Royalty & license fees payments/th GDP.....	10.6	5 ●
5.3.2 High-tech imports less re-imports, %	18.3	12
5.3.3 Computer & comm. service imports, %.....	61.3	7 ●
5.3.4 FDI net inflows, % GDP.....	–32.6	141 ○
6 Knowledge & technology outputs	46.8	21
6.1 Knowledge creation.....	34.9	40
6.1.1 Domestic resident patent ap/bn PPP\$ GDP	4.0	37
6.1.2 PCT resident patent ap/bn PPP\$ GDP	0.7	32
6.1.3 Domestic res utility model ap/bn PPP\$ GDP.....	1.3	24
6.1.4 Scientific & technical articles/bn PPP\$ GDP.....	13.0	30
6.2 Knowledge impact	55.1	12
6.2.1 Growth rate of PPP\$ GDP/worker, %.....	1.4	88 ○
6.2.2 New businesses/th pop. 15–64.....	6.3	15
6.2.3 Computer software spending, % GDP.....	1.0	6 ●
6.2.4 ISO 9001 quality certificates/bn PPP\$ GDP	42.8	8 ●
6.3 Knowledge diffusion	50.5	22
6.3.1 Royalty & license fees receipts/th GDP.....	8.1	8 ●
6.3.2 High-tech exports less re-exports, %.....	20.5	9 ●
6.3.3 Computer & comm. service exports, %	51.7	23
6.3.4 FDI net outflows, % GDP	–35.6	119 ○
7 Creative outputs	37.0	43
7.1 Creative intangibles.....	29.8	111 ○
7.1.1 Domestic res trademark reg/bn PPP\$ GDP.....	32.1	46
7.1.2 Madrid resident trademark reg/bn PPP\$ GDP.....	0.9	22
7.1.3 ICT & business model creation†	44.0	99 ○
7.1.4 ICT & organizational model creation†	41.4	91
7.2 Creative goods & services	39.7	20
7.2.1 Recreation & culture consumption, %.....	7.3	32
7.2.2 National feature films/mn pop. 15–69.....	3.8	32
7.2.3 Paid-for dailies, circulation/th pop. 15–69.....	167.7	31
7.2.4 Creative goods exports, %.....	1.0	69
7.2.5 Creative services exports, %.....	19.6	5 ●
7.3 Online creativity.....	48.5	26
7.3.1 Generic top-level domains (TLDs)/th pop. 15–69.....	27.0	29
7.3.2 Country-code TLDs/th pop. 15–69.....	61.9	18
7.3.3 Wikipedia monthly edits/mn pop. 15–69.....	7,047.4	22
7.3.4 Video uploads on YouTube/pop. 15–69.....	69.4	28

Iceland

Key indicators

Population (millions)	0.3
GDP per capita, PPP\$	38,079.6
GDP (US\$ billions)	14.1

	Score (0–100) or value (hard data)	Rank
Global Innovation Index 2012 (out of 141).....	55.7	18
Innovation Output Sub-Index	50.6	12
Innovation Input Sub-Index	60.8	19
Innovation Efficiency Index	0.8	28
Global Innovation Index 2011 (out of 125)		11
GII 2012 rank among GII 2011 economies (125)		17

1	Institutions.....	87.9	14
1.1	Political environment	90.1	11
1.1.1	Political stability*.....	89.8	13
1.1.2	Government effectiveness*.....	82.4	15
1.1.3	Press freedom*.....	98.0	6
1.2	Regulatory environment.....	89.8	19
1.2.1	Regulatory quality*.....	74.8	35
1.2.2	Rule of law*.....	92.6	15
1.2.3	Cost of redundancy dismissal, salary weeks.....	10.1	37
1.3	Business environment	83.9	10
1.3.1	Ease of starting a business*.....	82.7	25
1.3.2	Ease of resolving insolvency*.....	89.2	16
1.3.3	Ease of paying taxes*.....	79.8	28
2	Human capital & research.....	68.3	1 ●
2.1	Education.....	73.3	6
2.1.1	Current expenditure on education, % GNI	7.3	8
2.1.2	Public expenditure/pupil, % GDP/cap.....	25.5	22
2.1.3	School life expectancy, years.....	18.3	3 ●
2.1.4	PISA scales in reading, maths, & science.....	500.9	16
2.1.5	Pupil-teacher ratio, secondary	11.6	41
2.2	Tertiary education	54.8	13
2.2.1	Tertiary enrolment, % gross.....	74.1	14
2.2.2	Graduates in science & engineering, %	14.5	79
2.2.3	Tertiary inbound mobility, %.....	4.6	30
2.2.4	Gross tertiary outbound enrolment, %	11.5	1 ●
2.3	Research & development (R&D).....	76.7	4
2.3.1	Researchers, headcounts/mn pop.	13,384.3	1 ●
2.3.2	Gross expenditure on R&D, % GDP.....	2.6	12
2.3.3	Quality of scientific research institutions†	68.5	21
3	Infrastructure.....	47.6	30
3.1	Information & communication technologies (ICT).....	56.2	30
3.1.1	ICT access*.....	89.1	2 ●
3.1.2	ICT use*.....	65.8	8
3.1.3	Government's online service*.....	54.3	53
3.1.4	E-participation*.....	15.8	78
3.2	General infrastructure	61.4	8
3.2.1	Electricity output, kWh/cap.....	52,814.2	1 ●
3.2.2	Electricity consumption, kWh/cap.....	51,884.0	1 ●
3.2.3	Quality of trade & transport infrastructure*.....	58.3	30
3.2.4	Gross capital formation, % GDP.....	12.8	137 ○
3.3	Ecological sustainability	25.1	93
3.3.1	GDP/unit of energy use, 2000 PPP\$/kg oil eq.....	1.9	118 ○
3.3.2	Environmental performance*.....	66.3	13
3.3.3	ISO 14001 environmental certificates/bn PPP\$ GDP.....	0.4	85
4	Market sophistication	45.3	42
4.1	Credit	53.9	22
4.1.1	Ease of getting credit*.....	71.6	35
4.1.2	Domestic credit to private sector, % GDP.....	107.6	28
4.1.3	Microfinance gross loans, % GDP.....	n/a	n/a

4.2	Investment.....	13.3	106
4.2.1	Ease of protecting investors*.....	46.7	60
4.2.2	Market capitalization, % GDP.....	15.9	86 ○
4.2.3	Total value of stocks traded, % GDP.....	1.2	69
4.2.4	Venture capital deals/tr PPP\$ GDP.....	0.0	65 ○
4.3	Trade & competition	68.7	37
4.3.1	Applied tariff rate, weighted mean, %.....	1.1	8
4.3.2	Non-agricultural mkt access weighted tariff, %.....	1.5	86
4.3.3	Imports of goods & services, % GDP.....	46.0	54
4.3.4	Exports of goods & services, % GDP.....	56.0	31
4.3.5	Intensity of local competition†	62.4	72
5	Business sophistication	55.1	18
5.1	Knowledge workers.....	77.6	11
5.1.1	Knowledge-intensive employment, %.....	46.0	4
5.1.2	Firms offering formal training, % firms.....	n/a	n/a
5.1.3	R&D performed by business, %.....	54.6	28
5.1.4	R&D financed by business, %	50.3	22
5.1.5	GMAT mean score.....	545.9	42
5.1.6	GMAT test takers/mn pop. 20–34.....	584.3	8
5.2	Innovation linkages	47.4	28
5.2.1	University/industry research collaboration†	67.2	16
5.2.2	State of cluster development†	46.9	46
5.2.3	R&D financed by abroad, %.....	10.0	33
5.2.4	JV–strategic alliance deals/tr PPP\$ GDP	112.8	11
5.2.5	PCT patent filings with foreign inventor, %.....	45.7	54
5.3	Knowledge absorption	40.2	53
5.3.1	Royalty & license fees payments/th GDP.....	0.3	103 ○
5.3.2	High-tech imports less re-imports, %	7.9	72
5.3.3	Computer & comm. service imports, %.....	40.0	39
5.3.4	FDI net inflows, % GDP.....	23.5	4
6	Knowledge & technology outputs	45.5	24
6.1	Knowledge creation.....	64.4	12
6.1.1	Domestic resident patent ap/bn PPP\$ GDP	9.2	21
6.1.2	PCT resident patent ap/bn PPP\$ GDP	3.5	12
6.1.3	Domestic res utility model ap/bn PPP\$ GDP.....	n/a	n/a
6.1.4	Scientific & technical articles/bn PPP\$ GDP.....	21.3	13
6.2	Knowledge impact	55.0	13
6.2.1	Growth rate of PPP\$ GDP/worker, %.....	–2.9	114 ○
6.2.2	New businesses/th pop. 15–64.....	12.8	1 ●
6.2.3	Computer software spending, % GDP.....	n/a	n/a
6.2.4	ISO 9001 quality certificates/bn PPP\$ GDP	59.8	5
6.3	Knowledge diffusion	17.0	114 ○
6.3.1	Royalty & license fees receipts/th GDP.....	0.0	101 ○
6.3.2	High-tech exports less re-exports, %.....	3.1	51
6.3.3	Computer & comm. service exports, %	31.1	57
6.3.4	FDI net outflows, % GDP	–20.9	118 ○
7	Creative outputs	55.8	4
7.1	Creative intangibles.....	55.5	15
7.1.1	Domestic res trademark reg/bn PPP\$ GDP.....	103.6	7
7.1.2	Madrid resident trademark reg/bn PPP\$ GDP.....	2.1	8
7.1.3	ICT & business model creation†	70.6	13
7.1.4	ICT & organizational model creation†	57.8	31
7.2	Creative goods & services	30.9	40
7.2.1	Recreation & culture consumption, %.....	7.3	31
7.2.2	National feature films/mn pop. 15–69.....	35.3	1 ●
7.2.3	Paid-for dailies, circulation/th pop. 15–69.....	224.8	21
7.2.4	Creative goods exports, %.....	0.1	117 ○
7.2.5	Creative services exports, %.....	0.3	93 ○
7.3	Online creativity.....	81.3	1 ●
7.3.1	Generic top-level domains (TLDs)/th pop. 15–69.....	63.9	15
7.3.2	Country-code TLDs/th pop. 15–69.....	71.3	12
7.3.3	Wikipedia monthly edits/mn pop. 15–69.....	17,673.1	2 ●
7.3.4	Video uploads on YouTube/pop. 15–69.....	100.0	1 ●

Key indicators

Population (millions)	1,206.9
GDP per capita, PPP\$	3,703.5
GDP (US\$ billions)	1,843.4

	Score (0–100) or value (hard data)	Rank
Global Innovation Index 2012 (out of 141).....	35.7	64
Innovation Output Sub-Index	37.3	40
Innovation Input Sub-Index	34.0	96
Innovation Efficiency Index	1.1	2 ●
Global Innovation Index 2011 (out of 125)	62	
GII 2012 rank among GII 2011 economies (125)	62	

1	Institutions.....	38.4	125
1.1	Political environment	42.8	109
1.1.1	Political stability*.....	33.6	126
1.1.2	Government effectiveness*.....	40.8	69
1.1.3	Press freedom*.....	54.1	106
1.2	Regulatory environment.....	64.3	78
1.2.1	Regulatory quality*.....	41.8	99
1.2.2	Rule of law*.....	46.2	60
1.2.3	Cost of redundancy dismissal, salary weeks.....	15.8	71
1.3	Business environment	8.1	139 ○
1.3.1	Ease of starting a business*.....	2.8	136 ○
1.3.2	Ease of resolving insolvency*.....	12.9	122
1.3.3	Ease of paying taxes*.....	8.6	128 ○
2	Human capital & research.....	18.5	131 ○
2.1	Education.....	24.6	133 ○
2.1.1	Current expenditure on education, % GNI	3.1	102
2.1.2	Public expenditure/pupil, % GDP/cap.....	12.3	98
2.1.3	School life expectancy, years.....	10.8	107
2.1.4	PISA scales in reading, maths, & science.....	336.0	69 ○
2.1.5	Pupil-teacher ratio, secondary	32.7	124 ○
2.2	Tertiary education	5.4	135 ○
2.2.1	Tertiary enrolment, % gross.....	16.2	94
2.2.2	Graduates in science & engineering, %	n/a	n/a
2.2.3	Tertiary inbound mobility, %.....	0.0	90 ○
2.2.4	Gross tertiary outbound enrolment, %	0.2	126
2.3	Research & development (R&D).....	25.6	55
2.3.1	Researchers, headcounts/mn pop.	136.9	90
2.3.2	Gross expenditure on R&D, % GDP.....	0.8	43
2.3.3	Quality of scientific research institutions†.....	58.5	33
3	Infrastructure.....	31.0	78
3.1	Information & communication technologies (ICT).....	24.7	94
3.1.1	ICT access*.....	23.7	108
3.1.2	ICT use*	3.3	117
3.1.3	Government's online service*.....	53.6	55
3.1.4	E-participation*.....	18.4	71
3.2	General infrastructure	41.1	44
3.2.1	Electricity output, kWh/cap.....	766.1	98
3.2.2	Electricity consumption, kWh/cap.....	596.8	101
3.2.3	Quality of trade & transport infrastructure*.....	47.8	46
3.2.4	Gross capital formation, % GDP.....	34.8	9 ●
3.3	Ecological sustainability	27.3	87
3.3.1	GDP/unit of energy use, 2000 PPP\$/kg oil eq.....	6.8	43
3.3.2	Environmental performance*.....	36.2	117 ○
3.3.3	ISO 14001 environmental certificates/bn PPP\$ GDP	1.0	63
4	Market sophistication	44.6	46
4.1	Credit	30.2	70
4.1.1	Ease of getting credit*	71.6	35
4.1.2	Domestic credit to private sector, % GDP.....	49.0	64
4.1.3	Microfinance gross loans, % GDP.....	0.3	50

4.2	Investment.....	51.8	17 ●
4.2.1	Ease of protecting investors*.....	66.9	35
4.2.2	Market capitalization, % GDP.....	93.5	17 ●
4.2.3	Total value of stocks traded, % GDP.....	61.1	18 ●
4.2.4	Venture capital deals/tr PPP\$ GDP.....	51.0	26 ●
4.3	Trade & competition	51.7	118
4.3.1	Applied tariff rate, weighted mean, %.....	8.2	109
4.3.2	Non-agricultural mkt access weighted tariff, %.....	2.5	122
4.3.3	Imports of goods & services, % GDP.....	24.8	126
4.3.4	Exports of goods & services, % GDP.....	21.5	120
4.3.5	Intensity of local competition†	73.1	29 ●
5	Business sophistication	37.6	75
5.1	Knowledge workers.....	42.9	74
5.1.1	Knowledge-intensive employment, %.....	n/a	n/a
5.1.2	Firms offering formal training, % firms.....	15.9	96 ○
5.1.3	R&D performed by business, %.....	33.9	49
5.1.4	R&D financed by business, %	33.9	48
5.1.5	GMAT mean score.....	580.6	12 ●
5.1.6	GMAT test takers/mn pop. 20–34.....	81.0	56
5.2	Innovation linkages	37.4	59
5.2.1	University/industry research collaboration†	47.0	47
5.2.2	State of cluster development†	51.9	31 ●
5.2.3	R&D financed by abroad, %.....	n/a	n/a
5.2.4	JV-strategic alliance deals/tr PPP\$ GDP	36.0	41
5.2.5	PCT patent filings with foreign inventor, %.....	8.6	96 ○
5.3	Knowledge absorption	32.5	81
5.3.1	Royalty & license fees payments/th GDP.....	1.5	56
5.3.2	High-tech imports less re-imports, %	8.3	65
5.3.3	Computer & comm. service imports, %.....	34.6	60
5.3.4	FDI net inflows, % GDP.....	1.4	97
6	Knowledge & technology outputs	34.0	47
6.1	Knowledge creation.....	28.9	54
6.1.1	Domestic resident patent ap/bn PPP\$ GDP	2.0	55
6.1.2	PCT resident patent ap/bn PPP\$ GDP.....	0.3	49
6.1.3	Domestic res utility model ap/bn PPP\$ GDP.....	n/a	n/a
6.1.4	Scientific & technical articles/bn PPP\$ GDP.....	5.5	55
6.2	Knowledge impact	33.8	67
6.2.1	Growth rate of PPP\$ GDP/worker, %.....	5.6	14 ●
6.2.2	New businesses/th pop. 15–64.....	0.1	94 ○
6.2.3	Computer software spending, % GDP.....	0.1	52
6.2.4	ISO 9001 quality certificates/bn PPP\$ GDP	8.2	54
6.3	Knowledge diffusion	39.2	33
6.3.1	Royalty & license fees receipts/th GDP.....	0.1	73
6.3.2	High-tech exports less re-exports, %.....	4.8	43
6.3.3	Computer & comm. service exports, %	70.5	4 ●
6.3.4	FDI net outflows, % GDP	0.8	45
7	Creative outputs	40.7	34
7.1	Creative intangibles.....	60.8	10 ●
7.1.1	Domestic res trademark reg/bn PPP\$ GDP.....	n/a	n/a
7.1.2	Madrid resident trademark reg/bn PPP\$ GDP.....	n/a	n/a
7.1.3	ICT & business model creation†	63.9	31 ●
7.1.4	ICT & organizational model creation†	57.6	33
7.2	Creative goods & services	30.7	42
7.2.1	Recreation & culture consumption, %.....	1.3	92 ○
7.2.2	National feature films/mn pop. 15–69.....	1.6	55
7.2.3	Paid-for dailies, circulation/th pop. 15–69.....	137.7	43
7.2.4	Creative goods exports, %.....	6.2	7 ●
7.2.5	Creative services exports, %.....	3.4	49
7.3	Online creativity.....	10.5	109
7.3.1	Generic top-level domains (TLDs)/th pop. 15–69.....	1.0	99
7.3.2	Country-code TLDs/th pop. 15–69.....	12.0	90
7.3.3	Wikipedia monthly edits/mn pop. 15–69.....	131.5	102
7.3.4	Video uploads on YouTube/pop. 15–69.....	28.2	111

Indonesia

Key indicators

Population (millions)	240.5
GDP per capita, PPP\$	4,668.1
GDP (US\$ billions)	834.3

	Score (0–100) or value (hard data)	Rank
Global Innovation Index 2012 (out of 141).....	28.1	100
Innovation Output Sub-Index	25.5	89
Innovation Input Sub-Index	30.6	113
Innovation Efficiency Index	0.8	25 ●
Global Innovation Index 2011 (out of 125)	99	
GII 2012 rank among GII 2011 economies (125)	95	

1 Institutions.....25.4 139 ○**1.1 Political environment42.4 111**

1.1.1 Political stability*.....	43.9	113
1.1.2 Government effectiveness*.....	35.8	80
1.1.3 Press freedom*.....	47.3	119

1.2 Regulatory environment.....19.0 139 ○

1.2.1 Regulatory quality*.....	42.2	98
1.2.2 Rule of law*.....	31.0	103
1.2.3 Cost of redundancy dismissal, salary weeks.....	57.8	136 ○

1.3 Business environment14.8 132 ○

1.3.1 Ease of starting a business*.....	8.6	128 ○
1.3.2 Ease of resolving insolvency*.....	7.9	129 ○
1.3.3 Ease of paying taxes*.....	28.0	101

2 Human capital & research.....29.9 92**2.1 Education.....48.6 80**

2.1.1 Current expenditure on education, % GNI	4.3	62
2.1.2 Public expenditure/pupil, % GDP/cap.....	18.5	74
2.1.3 School life expectancy, years.....	12.9	76
2.1.4 PISA scales in reading, maths, & science.....	385.2	63
2.1.5 Pupil-teacher ratio, secondary	12.2	47 ●

2.2 Tertiary education23.9 91

2.2.1 Tertiary enrolment, % gross.....	23.1	83
2.2.2 Graduates in science & engineering, %	22.8	38
2.2.3 Tertiary inbound mobility, %.....	0.0	90 ○
2.2.4 Gross tertiary outbound enrolment, %	0.2	130 ○

2.3 Research & development (R&D).....17.2 90

2.3.1 Researchers, headcounts/mn pop.	173.3	87
2.3.2 Gross expenditure on R&D, % GDP.....	0.1	101
2.3.3 Quality of scientific research institutions†	48.9	52

3 Infrastructure.....30.5 80**3.1 Information & communication technologies (ICT).....27.2 86**

3.1.1 ICT access*.....	31.3	97
3.1.2 ICT use*.....	6.9	99
3.1.3 Government's online service*.....	49.7	67
3.1.4 E-participation*.....	21.1	63

3.2 General infrastructure36.4 67

3.2.1 Electricity output, kWh/cap.....	672.0	100
3.2.2 Electricity consumption, kWh/cap.....	609.3	100
3.2.3 Quality of trade & transport infrastructure*.....	38.5	69
3.2.4 Gross capital formation, % GDP.....	32.5	17 ●

3.3 Ecological sustainability28.0 81

3.3.1 GDP/unit of energy use, 2000 PPP\$/kg oil eq.....	4.6	79
3.3.2 Environmental performance*.....	52.3	71
3.3.3 ISO 14001 environmental certificates/bn PPP\$ GDP	1.0	60

4 Market sophistication33.0 98**4.1 Credit11.9 115**

4.1.1 Ease of getting credit*.....	21.1	104
4.1.2 Domestic credit to private sector, % GDP.....	29.1	96
4.1.3 Microfinance gross loans, % GDP.....	0.6	45

4.2 Investment.....29.8 54

4.2.1 Ease of protecting investors*.....	66.9	35 ●
4.2.2 Market capitalization, % GDP.....	51.0	41
4.2.3 Total value of stocks traded, % GDP.....	18.3	38 ●
4.2.4 Venture capital deals/tr PPP\$ GDP.....	2.7	62

4.3 Trade & competition57.4 101

4.3.1 Applied tariff rate, weighted mean, %.....	2.5	51
4.3.2 Non-agricultural mkt access weighted tariff, %.....	2.1	120
4.3.3 Imports of goods & services, % GDP.....	23.0	128
4.3.4 Exports of goods & services, % GDP.....	24.6	112
4.3.5 Intensity of local competition†	59.6	85

5 Business sophistication34.2 94**5.1 Knowledge workers.....17.8 139 ○**

5.1.1 Knowledge-intensive employment, %.....	7.4	96 ○
5.1.2 Firms offering formal training, % firms.....	4.7	106 ○
5.1.3 R&D performed by business, %.....	3.7	81 ○
5.1.4 R&D financed by business, %	14.7	69
5.1.5 GMAT mean score.....	513.5	65
5.1.6 GMAT test takers/mn pop. 20–34.....	13.4	120

5.2 Innovation linkages46.0 32 ●

5.2.1 University/industry research collaboration†	52.1	38 ●
5.2.2 State of cluster development†	55.4	24 ●
5.2.3 R&D financed by abroad, %.....	n/a	n/a
5.2.4 JV–strategic alliance deals/tr PPP\$ GDP	21.5	63
5.2.5 PCT patent filings with foreign inventor, %.....	50.0	48

5.3 Knowledge absorption38.8 57

5.3.1 Royalty & license fees payments/th GDP.....	2.3	41 ●
5.3.2 High-tech imports less re-imports, %	11.5	37 ●
5.3.3 Computer & comm. service imports, %.....	40.1	37 ●
5.3.4 FDI net inflows, % GDP.....	1.9	78

6 Knowledge & technology outputs20.4 104**6.1 Knowledge creation.....4.4 123**

6.1.1 Domestic resident patent ap/bn PPP\$ GDP	0.4	87
6.1.2 PCT resident patent ap/bn PPP\$ GDP.....	0.0	108 ○
6.1.3 Domestic res utility model ap/bn PPP\$ GDP.....	0.3	43
6.1.4 Scientific & technical articles/bn PPP\$ GDP.....	0.3	136 ○

6.2 Knowledge impact29.9 83

6.2.1 Growth rate of PPP\$ GDP/worker, %.....	3.9	36 ●
6.2.2 New businesses/th pop. 15–64.....	0.2	92 ○
6.2.3 Computer software spending, % GDP.....	0.1	48
6.2.4 ISO 9001 quality certificates/bn PPP\$ GDP	6.3	62

6.3 Knowledge diffusion27.0 66

6.3.1 Royalty & license fees receipts/th GDP.....	0.1	72
6.3.2 High-tech exports less re-exports, %.....	4.5	45
6.3.3 Computer & comm. service exports, %	34.7	51
6.3.4 FDI net outflows, % GDP.....	0.4	62

7 Creative outputs30.6 73**7.1 Creative intangibles.....54.2 18 ●**

7.1.1 Domestic res trademark reg/bn PPP\$ GDP.....	n/a	n/a
7.1.2 Madrid resident trademark reg/bn PPP\$ GDP.....	n/a	n/a
7.1.3 ICT & business model creation†	55.9	53
7.1.4 ICT & organizational model creation†	52.4	53

7.2 Creative goods & services5.0 122

7.2.1 Recreation & culture consumption, %.....	1.4	91 ○
7.2.2 National feature films/mn pop. 15–69.....	0.6	77
7.2.3 Paid-for dailies, circulation/th pop. 15–69.....	34.8	93
7.2.4 Creative goods exports, %.....	n/a	n/a
7.2.5 Creative services exports, %.....	0.6	82

7.3 Online creativity.....9.2 113

7.3.1 Generic top-level domains (TLDs)/th pop. 15–69.....	0.7	105
7.3.2 Country-code TLDs/th pop. 15–69.....	1.8	119
7.3.3 Wikipedia monthly edits/mn pop. 15–69.....	233.7	96
7.3.4 Video uploads on YouTube/pop. 15–69.....	33.1	104

Key indicators

Population (millions)	75.9
GDP per capita, PPP\$	12,258.2
GDP (US\$ billions)	475.1

	Score (0–100) or value (hard data)	Rank
Global Innovation Index 2012 (out of 141).....	27.3	104
Innovation Output Sub-Index	20.8	117
Innovation Input Sub-Index	33.9	97
Innovation Efficiency Index	0.6	118
Global Innovation Index 2011 (out of 125)	95	
GII 2012 rank among GII 2011 economies (125)	98	

1	Institutions.....	36.4	128
1.1	Political environment	18.6	139 ○
1.1.1	Political stability*.....	27.5	135 ○
1.1.2	Government effectiveness*.....	27.4	97
1.1.3	Press freedom*.....	0.9	139 ○
1.2	Regulatory environment.....	43.7	128
1.2.1	Regulatory quality*.....	10.9	140 ○
1.2.2	Rule of law*.....	23.8	119
1.2.3	Cost of redundancy dismissal, salary weeks.....	23.1	104
1.3	Business environment	46.7	75
1.3.1	Ease of starting a business*.....	74.8	35 ●
1.3.2	Ease of resolving insolvency*.....	26.6	103
1.3.3	Ease of paying taxes*.....	38.8	86
2	Human capital & research.....	40.3	54 ●
2.1	Education.....	45.5	90
2.1.1	Current expenditure on education, % GNI	4.1	72
2.1.2	Public expenditure/pupil, % GDP/cap.....	19.5	65
2.1.3	School life expectancy, years.....	13.1	70
2.1.4	PISA scales in reading, maths, & science.....	n/a	n/a
2.1.5	Pupil-teacher ratio, secondary	21.7	99
2.2	Tertiary education	48.8	24 ●
2.2.1	Tertiary enrolment, % gross.....	42.8	54 ●
2.2.2	Graduates in science & engineering, %	44.4	1 ●
2.2.3	Tertiary inbound mobility, %.....	0.0	90 ○
2.2.4	Gross tertiary outbound enrolment, %	0.4	109
2.3	Research & development (R&D).....	26.6	52 ●
2.3.1	Researchers, headcounts/mn pop.	1,491.4	47 ●
2.3.2	Gross expenditure on R&D, % GDP.....	0.8	42 ●
2.3.3	Quality of scientific research institutions†.....	50.8	46 ●
3	Infrastructure.....	29.3	88
3.1	Information & communication technologies (ICT).....	29.5	79
3.1.1	ICT access*.....	46.0	65
3.1.2	ICT use*	4.7	109
3.1.3	Government's online service*.....	49.0	71
3.1.4	E-participation*.....	18.4	71
3.2	General infrastructure	38.3	60
3.2.1	Electricity output, kWh/cap.....	2,758.8	63
3.2.2	Electricity consumption, kWh/cap.....	2,244.7	65
3.2.3	Quality of trade & transport infrastructure*.....	34.0	86
3.2.4	Gross capital formation, % GDP.....	33.2	14 ●
3.3	Ecological sustainability	20.2	114
3.3.1	GDP/unit of energy use, 2000 PPP\$/kg oil eq.....	2.7	105
3.3.2	Environmental performance*.....	42.7	109
3.3.3	ISO 14001 environmental certificates/bn PPP\$ GDP	0.9	66
4	Market sophistication	20.3	133 ○
4.1	Credit	18.8	97
4.1.1	Ease of getting credit*	27.0	88
4.1.2	Domestic credit to private sector, % GDP.....	36.7	86
4.1.3	Microfinance gross loans, % GDP	n/a	n/a

4.2	Investment.....	3.4	134 ○
4.2.1	Ease of protecting investors*.....	3.5	131 ○
4.2.2	Market capitalization, % GDP.....	19.1	79
4.2.3	Total value of stocks traded, % GDP.....	5.2	55
4.2.4	Venture capital deals/tr PPP\$ GDP.....	0.0	65 ○
4.3	Trade & competition	38.8	136 ○
4.3.1	Applied tariff rate, weighted mean, %.....	19.6	141 ○
4.3.2	Non-agricultural mkt access weighted tariff, %.....	1.0	75
4.3.3	Imports of goods & services, % GDP	21.5	132 ○
4.3.4	Exports of goods & services, % GDP	32.2	83
4.3.5	Intensity of local competition†	54.1	102
5	Business sophistication	43.3	49 ●
5.1	Knowledge workers.....	35.3	103
5.1.1	Knowledge-intensive employment, %.....	15.0	87
5.1.2	Firms offering formal training, % firms.....	n/a	n/a
5.1.3	R&D performed by business, %.....	10.6	75
5.1.4	R&D financed by business, %	30.9	50
5.1.5	GMAT mean score.....	518.7	60
5.1.6	GMAT test takers/mn pop. 20–34.....	26.5	106
5.2	Innovation linkages	41.5	49 ●
5.2.1	University/industry research collaboration†	37.5	90
5.2.2	State of cluster development†	35.8	92
5.2.3	R&D financed by abroad, %.....	n/a	n/a
5.2.4	JV–strategic alliance deals/tr PPP\$ GDP	4.0	108
5.2.5	PCT patent filings with foreign inventor, %.....	100.0	1 ●
5.3	Knowledge absorption	53.0	13 ●
5.3.1	Royalty & license fees payments/th GDP.....	n/a	n/a
5.3.2	High-tech imports less re-imports, %	n/a	n/a
5.3.3	Computer & comm. service imports, %.....	n/a	n/a
5.3.4	FDI net inflows, % GDP	0.9	112
6	Knowledge & technology outputs	25.9	73
6.1	Knowledge creation.....	28.9	55 ●
6.1.1	Domestic resident patent ap/bn PPP\$ GDP	8.6	23 ●
6.1.2	PCT resident patent ap/bn PPP\$ GDP	n/a	n/a
6.1.3	Domestic res utility model ap/bn PPP\$ GDP.....	n/a	n/a
6.1.4	Scientific & technical articles/bn PPP\$ GDP.....	7.4	45 ●
6.2	Knowledge impact	22.8	108
6.2.1	Growth rate of PPP\$ GDP/worker, %.....	–0.6	107
6.2.2	New businesses/th pop. 15–64.....	n/a	n/a
6.2.3	Computer software spending, % GDP.....	0.1	60
6.2.4	ISO 9001 quality certificates/bn PPP\$ GDP	3.8	74
6.3	Knowledge diffusion	n/a	n/a
6.3.1	Royalty & license fees receipts/th GDP.....	n/a	n/a
6.3.2	High-tech exports less re-exports, %.....	n/a	n/a
6.3.3	Computer & comm. service exports, %	n/a	n/a
6.3.4	FDI net outflows, % GDP	n/a	n/a
7	Creative outputs	15.7	131
7.1	Creative intangibles.....	22.6	130 ○
7.1.1	Domestic res trademark reg/bn PPP\$ GDP.....	0.0	86 ○
7.1.2	Madrid resident trademark reg/bn PPP\$ GDP.....	0.0	58
7.1.3	ICT & business model creation†	44.4	96
7.1.4	ICT & organizational model creation†	45.2	80
7.2	Creative goods & services	8.5	108
7.2.1	Recreation & culture consumption, %.....	0.9	94 ○
7.2.2	National feature films/mn pop. 15–69.....	0.5	81
7.2.3	Paid-for dailies, circulation/th pop. 15–69.....	29.9	96
7.2.4	Creative goods exports, %.....	1.2	64
7.2.5	Creative services exports, %.....	n/a	n/a
7.3	Online creativity.....	9.1	115
7.3.1	Generic top-level domains (TLDs)/th pop. 15–69.....	2.3	79
7.3.2	Country-code TLDs/th pop. 15–69.....	23.1	66
7.3.3	Wikipedia monthly edits/mn pop. 15–69.....	367.9	84
7.3.4	Video uploads on YouTube/pop. 15–69	n/a	n/a

Ireland

Key indicators

Population (millions)	4.6
GDP per capita, PPP\$	39,507.9
GDP (US\$ billions)	222.3

	Score (0–100) or value (hard data)	Rank
Global Innovation Index 2012 (out of 141).....	58.7	9
Innovation Output Sub-Index	49.9	14
Innovation Input Sub-Index	67.4	7
Innovation Efficiency Index	0.7	71 ○
Global Innovation Index 2011 (out of 125)		13
GII 2012 rank among GII 2011 economies (125)		9

1	Institutions.....	93.0	4 ●
1.1	Political environment	86.9	15
1.1.1	Political stability*.....	89.4	16
1.1.2	Government effectiveness*.....	75.5	22
1.1.3	Press freedom*.....	95.9	14
1.2	Regulatory environment.....	97.0	8
1.2.1	Regulatory quality*.....	93.7	12
1.2.2	Rule of law*.....	94.5	13
1.2.3	Cost of redundancy dismissal, salary weeks.....	8.0	1 ●
1.3	Business environment	95.2	4 ●
1.3.1	Ease of starting a business*.....	93.5	9
1.3.2	Ease of resolving insolvency*.....	94.2	9
1.3.3	Ease of paying taxes*.....	97.8	4 ●
2	Human capital & research.....	59.9	7
2.1	Education.....	75.7	1 ●
2.1.1	Current expenditure on education, % GNI	5.2	34
2.1.2	Public expenditure/pupil, % GDP/cap.....	n/a	n/a
2.1.3	School life expectancy, years.....	18.3	4
2.1.4	PISA scales in reading, maths, & science.....	496.9	21
2.1.5	Pupil-teacher ratio, secondary	10.5	35
2.2	Tertiary education	54.5	14
2.2.1	Tertiary enrolment, % gross.....	61.0	30
2.2.2	Graduates in science & engineering, %	21.6	42
2.2.3	Tertiary inbound mobility, %.....	7.1	21
2.2.4	Gross tertiary outbound enrolment, %	6.1	11
2.3	Research & development (R&D).....	49.6	23
2.3.1	Researchers, headcounts/mn pop.	4,842.8	15
2.3.2	Gross expenditure on R&D, % GDP.....	1.8	21
2.3.3	Quality of scientific research institutions†	71.5	16
3	Infrastructure.....	45.0	35
3.1	Information & communication technologies (ICT).....	48.2	43
3.1.1	ICT access*.....	74.5	19
3.1.2	ICT use*.....	51.7	23
3.1.3	Government's online service*.....	53.6	55
3.1.4	E-participation*.....	13.2	83 ○
3.2	General infrastructure	40.1	49
3.2.1	Electricity output, kWh/cap.....	6,320.3	34
3.2.2	Electricity consumption, kWh/cap.....	5,898.8	34
3.2.3	Quality of trade & transport infrastructure*.....	69.0	19
3.2.4	Gross capital formation, % GDP.....	10.8	139 ○
3.3	Ecological sustainability	46.7	22
3.3.1	GDP/unit of energy use, 2000 PPP\$/kg oil eq.....	9.4	18
3.3.2	Environmental performance*.....	58.7	35
3.3.3	ISO 14001 environmental certificates/bn PPP\$ GDP.....	3.4	28
4	Market sophistication	69.4	6
4.1	Credit	80.5	4 ●
4.1.1	Ease of getting credit*.....	87.6	8
4.1.2	Domestic credit to private sector, % GDP.....	210.2	4 ●
4.1.3	Microfinance gross loans, % GDP.....	n/a	n/a

4.2	Investment.....	50.8	18
4.2.1	Ease of protecting investors*.....	94.2	5
4.2.2	Market capitalization, % GDP.....	16.5	85 ○
4.2.3	Total value of stocks traded, % GDP.....	8.2	50 ○
4.2.4	Venture capital deals/tr PPP\$ GDP.....	281.8	4 ●
4.3	Trade & competition	76.9	9
4.3.1	Applied tariff rate, weighted mean, %.....	1.6	11
4.3.2	Non-agricultural mkt access weighted tariff, %.....	2.0	92 ○
4.3.3	Imports of goods & services, % GDP.....	80.1	10
4.3.4	Exports of goods & services, % GDP.....	98.8	1 ●
4.3.5	Intensity of local competition†	67.1	57
5	Business sophistication	69.8	2 ●
5.1	Knowledge workers.....	77.0	13
5.1.1	Knowledge-intensive employment, %.....	38.8	22
5.1.2	Firms offering formal training, % firms.....	73.2	3 ●
5.1.3	R&D performed by business, %.....	66.3	16
5.1.4	R&D financed by business, %	50.8	20
5.1.5	GMAT mean score.....	554.6	35
5.1.6	GMAT test takers/mn pop. 20–34.....	307.1	17
5.2	Innovation linkages	49.4	25
5.2.1	University/industry research collaboration†	65.9	19
5.2.2	State of cluster development†	52.7	29
5.2.3	R&D financed by abroad, %.....	15.6	17
5.2.4	JV–strategic alliance deals/tr PPP\$ GDP	51.3	26
5.2.5	PCT patent filings with foreign inventor, %.....	65.1	45
5.3	Knowledge absorption	82.8	2 ●
5.3.1	Royalty & license fees payments/th GDP.....	182.7	1 ●
5.3.2	High-tech imports less re-imports, %	20.4	8
5.3.3	Computer & comm. service imports, %.....	75.6	1 ●
5.3.4	FDI net inflows, % GDP.....	12.8	10
6	Knowledge & technology outputs	60.9	6
6.1	Knowledge creation.....	54.2	20
6.1.1	Domestic resident patent ap/bn PPP\$ GDP	7.1	27
6.1.2	PCT resident patent ap/bn PPP\$ GDP	2.3	18
6.1.3	Domestic res utility model ap/bn PPP\$ GDP.....	n/a	n/a
6.1.4	Scientific & technical articles/bn PPP\$ GDP.....	16.0	20
6.2	Knowledge impact	51.9	16
6.2.1	Growth rate of PPP\$ GDP/worker, %.....	3.6	39
6.2.2	New businesses/th pop. 15–64.....	4.7	18
6.2.3	Computer software spending, % GDP.....	1.0	4
6.2.4	ISO 9001 quality certificates/bn PPP\$ GDP	13.4	41
6.3	Knowledge diffusion	76.6	2 ●
6.3.1	Royalty & license fees receipts/th GDP.....	10.9	1 ●
6.3.2	High-tech exports less re-exports, %.....	19.6	10
6.3.3	Computer & comm. service exports, %	70.8	3 ●
6.3.4	FDI net outflows, % GDP	8.6	5
7	Creative outputs	39.0	38
7.1	Creative intangibles.....	34.4	97 ○
7.1.1	Domestic res trademark reg/bn PPP\$ GDP.....	38.1	42 ○
7.1.2	Madrid resident trademark reg/bn PPP\$ GDP.....	0.2	43 ○
7.1.3	ICT & business model creation†	64.0	30
7.1.4	ICT & organizational model creation†	50.7	61 ○
7.2	Creative goods & services	30.5	43
7.2.1	Recreation & culture consumption, %.....	6.7	40
7.2.2	National feature films/mn pop. 15–69.....	9.2	10
7.2.3	Paid-for dailies, circulation/th pop. 15–69.....	244.7	18
7.2.4	Creative goods exports, %.....	1.3	61 ○
7.2.5	Creative services exports, %.....	2.3	57 ○
7.3	Online creativity.....	56.6	21
7.3.1	Generic top-level domains (TLDs)/th pop. 15–69.....	51.5	18
7.3.2	Country-code TLDs/th pop. 15–69.....	56.3	27
7.3.3	Wikipedia monthly edits/mn pop. 15–69.....	7,894.5	18
7.3.4	Video uploads on YouTube/pop. 15–69.....	78.2	8

Key indicators

Population (millions)	7.6
GDP per capita, PPP\$	31,004.6
GDP (US\$ billions)	245.3

	Score (0–100) or value (hard data)	Rank
Global Innovation Index 2012 (out of 141).....	56.0	17
Innovation Output Sub-Index	50.5	13
Innovation Input Sub-Index	61.5	17
Innovation Efficiency Index	0.8	38
Global Innovation Index 2011 (out of 125) .....	.....	14
GII 2012 rank among GII 2011 economies (125) .....	.....	16
1 Institutions.....	67.2	47
1.1 Political environment	58.4	64
1.1.1 Political stability*.....	29.4	129 ○
1.1.2 Government effectiveness*.....	73.6	23
1.1.3 Press freedom*.....	72.1	71
1.2 Regulatory environment.....	69.1	62
1.2.1 Regulatory quality*.....	82.6	25
1.2.2 Rule of law*.....	71.0	31
1.2.3 Cost of redundancy dismissal, salary weeks.....	27.4	120 ○
1.3 Business environment	74.1	25
1.3.1 Ease of starting a business*.....	78.4	31
1.3.2 Ease of resolving insolvency*.....	74.8	36
1.3.3 Ease of paying taxes*.....	69.0	44
2 Human capital & research.....	66.5	4 ●
2.1 Education.....	61.8	29
2.1.1 Current expenditure on education, % GNI	5.7	25
2.1.2 Public expenditure/pupil, % GDP/cap.....	19.8	61
2.1.3 School life expectancy, years.....	15.7	23
2.1.4 PISA scales in reading, maths, & science.....	458.6	39
2.1.5 Pupil-teacher ratio, secondary	9.5	21
2.2 Tertiary education	43.2	43
2.2.1 Tertiary enrolment, % gross.....	62.5	26
2.2.2 Graduates in science & engineering, %	n/a	n/a
2.2.3 Tertiary inbound mobility, %.....	n/a	n/a
2.2.4 Gross tertiary outbound enrolment, %	2.4	34
2.3 Research & development (R&D).....	94.3	1 ●
2.3.1 Researchers, headcounts/mn pop.	n/a	n/a
2.3.2 Gross expenditure on R&D, % GDP.....	4.3	1 ●
2.3.3 Quality of scientific research institutions†.....	88.6	1 ●
3 Infrastructure.....	54.2	21
3.1 Information & communication technologies (ICT).....	76.1	9
3.1.1 ICT access*.....	73.0	21
3.1.2 ICT use*	57.1	19
3.1.3 Government's online service*	85.0	15
3.1.4 E-participation*.....	89.5	7 ●
3.2 General infrastructure	43.7	38
3.2.1 Electricity output, kWh/cap.....	7,703.4	26
3.2.2 Electricity consumption, kWh/cap.....	6,648.1	25
3.2.3 Quality of trade & transport infrastructure*	65.0	23
3.2.4 Gross capital formation, % GDP.....	15.6	126 ○
3.3 Ecological sustainability	42.6	35
3.3.1 GDP/unit of energy use, 2000 PPP\$/kg oil eq.....	8.9	20
3.3.2 Environmental performance*.....	54.6	59
3.3.3 ISO 14001 environmental certificates/bn PPP\$ GDP	2.7	35
4 Market sophistication	64.9	9
4.1 Credit	59.8	18
4.1.1 Ease of getting credit*	87.6	8
4.1.2 Domestic credit to private sector, % GDP.....	95.7	33
4.1.3 Microfinance gross loans, % GDP	n/a	n/a

4.2 Investment.....	66.7	9
4.2.1 Ease of protecting investors*.....	94.2	5
4.2.2 Market capitalization, % GDP.....	100.3	16
4.2.3 Total value of stocks traded, % GDP.....	61.4	17
4.2.4 Venture capital deals/tr PPP\$ GDP.....	288.8	3 ●
4.3 Trade & competition	68.1	40
4.3.1 Applied tariff rate, weighted mean, %.....	3.5	58
4.3.2 Non-agricultural mkt access weighted tariff, %.....	0.6	57
4.3.3 Imports of goods & services, % GDP	34.9	91 ○
4.3.4 Exports of goods & services, % GDP	37.0	73
4.3.5 Intensity of local competition†	74.0	25
5 Business sophistication	54.8	19
5.1 Knowledge workers.....	83.2	4 ●
5.1.1 Knowledge-intensive employment, %.....	41.3	15
5.1.2 Firms offering formal training, % firms.....	n/a	n/a
5.1.3 R&D performed by business, %.....	79.4	2 ●
5.1.4 R&D financed by business, %	79.5	2 ●
5.1.5 GMAT mean score.....	484.5	84 ○
5.1.6 GMAT test takers/mn pop. 20–34.....	1,498.2	2 ●
5.2 Innovation linkages	35.8	66
5.2.1 University/industry research collaboration†	73.4	7
5.2.2 State of cluster development†	42.6	61
5.2.3 R&D financed by abroad, %.....	2.8	71 ○
5.2.4 JV–strategic alliance deals/tr PPP\$ GDP	59.9	23
5.2.5 PCT patent filings with foreign inventor, %.....	10.3	92 ○
5.3 Knowledge absorption	45.4	30
5.3.1 Royalty & license fees payments/th GDP.....	4.0	26
5.3.2 High-tech imports less re-imports, %	11.9	33
5.3.3 Computer & comm. service imports, %.....	48.1	19
5.3.4 FDI net inflows, % GDP	2.4	68
6 Knowledge & technology outputs	57.2	10
6.1 Knowledge creation.....	72.9	6 ●
6.1.1 Domestic resident patent ap/bn PPP\$ GDP	6.6	29
6.1.2 PCT resident patent ap/bn PPP\$ GDP	6.2	7
6.1.3 Domestic res utility model ap/bn PPP\$ GDP.....	n/a	n/a
6.1.4 Scientific & technical articles/bn PPP\$ GDP.....	30.4	1 ●
6.2 Knowledge impact	40.8	41
6.2.1 Growth rate of PPP\$ GDP/worker, %.....	0.3	101 ○
6.2.2 New businesses/th pop. 15–64.....	4.5	22
6.2.3 Computer software spending, % GDP.....	0.4	26
6.2.4 ISO 9001 quality certificates/bn PPP\$ GDP	37.1	9
6.3 Knowledge diffusion	57.8	12
6.3.1 Royalty & license fees receipts/th GDP.....	3.9	17
6.3.2 High-tech exports less re-exports, %.....	18.1	13
6.3.3 Computer & comm. service exports, %	67.6	6 ●
6.3.4 FDI net outflows, % GDP	3.7	15
7 Creative outputs	43.8	27
7.1 Creative intangibles.....	43.7	57
7.1.1 Domestic res trademark reg/bn PPP\$ GDP.....	10.9	78 ○
7.1.2 Madrid resident trademark reg/bn PPP\$ GDP.....	n/a	n/a
7.1.3 ICT & business model creation†	69.8	15
7.1.4 ICT & organizational model creation†	56.3	37
7.2 Creative goods & services	28.4	52
7.2.1 Recreation & culture consumption, %.....	6.8	38
7.2.2 National feature films/mn pop. 15–69.....	4.0	30
7.2.3 Paid-for dailies, circulation/th pop. 15–69.....	147.9	37
7.2.4 Creative goods exports, %.....	0.9	79 ○
7.2.5 Creative services exports, %.....	n/a	n/a
7.3 Online creativity.....	59.4	19
7.3.1 Generic top-level domains (TLDs)/th pop. 15–69.....	28.7	27
7.3.2 Country-code TLDs/th pop. 15–69.....	54.3	31
7.3.3 Wikipedia monthly edits/mn pop. 15–69.....	15,077.7	5 ●
7.3.4 Video uploads on YouTube/pop. 15–69	78.1	9

Key indicators

Population (millions)	60.6
GDP per capita, PPP\$	30,165.5
GDP (US\$ billions)	2,245.7

	Score (0–100) or value (hard data)	Rank
Global Innovation Index 2012 (out of 141).....	44.5	36
Innovation Output Sub-Index	37.5	39
Innovation Input Sub-Index	51.5	34
Innovation Efficiency Index	0.7	75
Global Innovation Index 2011 (out of 125)	35	
GII 2012 rank among GII 2011 economies (125)	35	
1 Institutions.....	70.2	36
1.1 Political environment	70.4	44
1.1.1 Political stability*.....	76.8	45
1.1.2 Government effectiveness*.....	54.5	47
1.1.3 Press freedom*.....	80.0	52
1.2 Regulatory environment.....	82.8	30
1.2.1 Regulatory quality*.....	73.3	36
1.2.2 Rule of law*.....	57.9	49
1.2.3 Cost of redundancy dismissal, salary weeks.....	8.0	1 ●
1.3 Business environment	57.5	55
1.3.1 Ease of starting a business*.....	62.5	53
1.3.2 Ease of resolving insolvency*.....	80.5	28
1.3.3 Ease of paying taxes*.....	29.4	99 ○
2 Human capital & research.....	44.7	41
2.1 Education.....	61.9	28
2.1.1 Current expenditure on education, % GNI	4.1	71
2.1.2 Public expenditure/pupil, % GDP/cap.....	24.7	29
2.1.3 School life expectancy, years.....	16.2	16 ●
2.1.4 PISA scales in reading, maths, & science.....	485.9	31
2.1.5 Pupil-teacher ratio, secondary	10.1	29
2.2 Tertiary education	40.2	52
2.2.1 Tertiary enrolment, % gross.....	66.0	21
2.2.2 Graduates in science & engineering, %	20.5	54
2.2.3 Tertiary inbound mobility, %.....	3.3	43
2.2.4 Gross tertiary outbound enrolment, %	1.3	66
2.3 Research & development (R&D).....	32.0	40
2.3.1 Researchers, headcounts/mn pop.	2,431.4	37
2.3.2 Gross expenditure on R&D, % GDP.....	1.3	28
2.3.3 Quality of scientific research institutions†	48.4	54
3 Infrastructure.....	53.5	22
3.1 Information & communication technologies (ICT).....	50.8	41
3.1.1 ICT access*.....	69.3	30
3.1.2 ICT use*.....	49.9	26
3.1.3 Government's online service*.....	57.5	48
3.1.4 E-participation*.....	26.3	55
3.2 General infrastructure	44.9	36
3.2.1 Electricity output, kWh/cap.....	4,889.3	46
3.2.2 Electricity consumption, kWh/cap.....	5,363.3	39
3.2.3 Quality of trade & transport infrastructure*.....	68.0	20 ●
3.2.4 Gross capital formation, % GDP.....	20.2	90
3.3 Ecological sustainability	64.9	4 ●
3.3.1 GDP/unit of energy use, 2000 PPP\$/kg oil eq.....	8.8	22
3.3.2 Environmental performance*.....	68.9	8 ●
3.3.3 ISO 14001 environmental certificates/bn PPP\$ GDP	9.6	9 ●
4 Market sophistication	41.1	59
4.1 Credit	34.3	54
4.1.1 Ease of getting credit*.....	27.0	88 ○
4.1.2 Domestic credit to private sector, % GDP.....	122.5	21 ●
4.1.3 Microfinance gross loans, % GDP.....	n/a	n/a

4.2 Investment.....	27.3	62
4.2.1 Ease of protecting investors*.....	58.2	48
4.2.2 Market capitalization, % GDP.....	15.5	88 ○
4.2.3 Total value of stocks traded, % GDP.....	26.3	34
4.2.4 Venture capital deals/tr PPP\$ GDP.....	4.4	56
4.3 Trade & competition	61.6	77
4.3.1 Applied tariff rate, weighted mean, %.....	1.6	11
4.3.2 Non-agricultural mkt access weighted tariff, %.....	2.0	92 ○
4.3.3 Imports of goods & services, % GDP.....	28.5	111 ○
4.3.4 Exports of goods & services, % GDP.....	26.8	98
4.3.5 Intensity of local competition†	67.3	56
5 Business sophistication	47.8	35
5.1 Knowledge workers.....	69.9	24
5.1.1 Knowledge-intensive employment, %.....	39.6	21
5.1.2 Firms offering formal training, % firms.....	n/a	n/a
5.1.3 R&D performed by business, %.....	51.5	33
5.1.4 R&D financed by business, %	45.2	32
5.1.5 GMAT mean score.....	561.1	27
5.1.6 GMAT test takers/mn pop. 20–34.....	170.9	34
5.2 Innovation linkages	32.1	90
5.2.1 University/industry research collaboration†	41.3	76
5.2.2 State of cluster development†	63.0	10 ●
5.2.3 R&D financed by abroad, %.....	7.8	43
5.2.4 JV–strategic alliance deals/tr PPP\$ GDP	15.8	73
5.2.5 PCT patent filings with foreign inventor, %.....	10.0	94 ○
5.3 Knowledge absorption	41.4	48
5.3.1 Royalty & license fees payments/th GDP.....	3.4	31
5.3.2 High-tech imports less re-imports, %	11.0	42
5.3.3 Computer & comm. service imports, %.....	44.0	26
5.3.4 FDI net inflows, % GDP.....	0.5	123 ○
6 Knowledge & technology outputs	38.2	35
6.1 Knowledge creation.....	36.9	35
6.1.1 Domestic resident patent ap/bn PPP\$ GDP	2.3	50
6.1.2 PCT resident patent ap/bn PPP\$ GDP.....	1.5	26
6.1.3 Domestic res utility model ap/bn PPP\$ GDP.....	1.2	29
6.1.4 Scientific & technical articles/bn PPP\$ GDP.....	15.4	24
6.2 Knowledge impact	43.9	34
6.2.1 Growth rate of PPP\$ GDP/worker, %.....	1.4	89 ○
6.2.2 New businesses/th pop. 15–64.....	1.8	48
6.2.3 Computer software spending, % GDP.....	0.5	21
6.2.4 ISO 9001 quality certificates/bn PPP\$ GDP	78.1	1 ●
6.3 Knowledge diffusion	33.9	45
6.3.1 Royalty & license fees receipts/th GDP.....	1.8	22
6.3.2 High-tech exports less re-exports, %.....	6.5	31
6.3.3 Computer & comm. service exports, %	37.5	46
6.3.4 FDI net outflows, % GDP.....	1.6	29
7 Creative outputs	36.8	45
7.1 Creative intangibles.....	29.1	115 ○
7.1.1 Domestic res trademark reg/bn PPP\$ GDP.....	13.7	70 ○
7.1.2 Madrid resident trademark reg/bn PPP\$ GDP.....	1.3	15
7.1.3 ICT & business model creation†	45.6	88
7.1.4 ICT & organizational model creation†	36.7	107 ○
7.2 Creative goods & services	40.9	17 ●
7.2.1 Recreation & culture consumption, %.....	6.8	36
7.2.2 National feature films/mn pop. 15–69.....	3.1	37
7.2.3 Paid-for dailies, circulation/th pop. 15–69.....	113.2	49
7.2.4 Creative goods exports, %.....	5.2	11 ●
7.2.5 Creative services exports, %.....	6.7	31
7.3 Online creativity.....	47.9	29
7.3.1 Generic top-level domains (TLDs)/th pop. 15–69.....	27.1	28
7.3.2 Country-code TLDs/th pop. 15–69.....	56.2	28
7.3.3 Wikipedia monthly edits/mn pop. 15–69.....	8,162.9	15 ●
7.3.4 Video uploads on YouTube/pop. 15–69.....	66.8	32

Key indicators

Population (millions)	2.7
GDP per capita, PPP\$	9,003.8
GDP (US\$ billions)	14.7

	Score (0–100) or value (hard data)	Rank
Global Innovation Index 2012 (out of 141).....	30.2	91
Innovation Output Sub-Index	22.1	107
Innovation Input Sub-Index	38.2	77
Innovation Efficiency Index	0.6	130 ○
Global Innovation Index 2011 (out of 125)	92	
GII 2012 rank among GII 2011 economies (125)	86	

1 Institutions.....	63.8	54
1.1 Political environment	65.5	47 ●
1.1.1 Political stability*.....	55.6	92
1.1.2 Government effectiveness*.....	45.8	55
1.1.3 Press freedom*.....	95.3	15 ●
1.2 Regulatory environment.....	67.5	68
1.2.1 Regulatory quality*.....	59.3	60
1.2.2 Rule of law*.....	34.6	91
1.2.3 Cost of redundancy dismissal, salary weeks.....	14.0	62
1.3 Business environment	58.4	53
1.3.1 Ease of starting a business*.....	87.7	18 ●
1.3.2 Ease of resolving insolvency*.....	84.1	23 ●
1.3.3 Ease of paying taxes*.....	3.5	135 ○
2 Human capital & research.....	34.5	68
2.1 Education.....	54.7	56
2.1.1 Current expenditure on education, % GNI	5.8	24 ●
2.1.2 Public expenditure/pupil, % GDP/cap.....	18.7	71
2.1.3 School life expectancy, years.....	13.1	69
2.1.4 PISA scales in reading, maths, & science.....	n/a	n/a
2.1.5 Pupil-teacher ratio, secondary	14.6	66
2.2 Tertiary education	25.6	88
2.2.1 Tertiary enrolment, % gross.....	29.0	74
2.2.2 Graduates in science & engineering, %	n/a	n/a
2.2.3 Tertiary inbound mobility, %.....	n/a	n/a
2.2.4 Gross tertiary outbound enrolment, %	2.2	43 ●
2.3 Research & development (R&D).....	23.2	64
2.3.1 Researchers, headcounts/mn pop.	n/a	n/a
2.3.2 Gross expenditure on R&D, % GDP.....	0.1	104 ○
2.3.3 Quality of scientific research institutions†.....	45.5	60
3 Infrastructure.....	23.9	109
3.1 Information & communication technologies (ICT).....	20.6	103
3.1.1 ICT access*.....	38.0	83
3.1.2 ICT use*	13.7	80
3.1.3 Government's online service*.....	30.7	115
3.1.4 E-participation*.....	0.0	127 ○
3.2 General infrastructure	26.2	119 ○
3.2.1 Electricity output, kWh/cap.....	2,050.0	75
3.2.2 Electricity consumption, kWh/cap.....	1,898.5	71
3.2.3 Quality of trade & transport infrastructure*.....	26.8	115 ○
3.2.4 Gross capital formation, % GDP.....	20.6	86
3.3 Ecological sustainability	24.9	94
3.3.1 GDP/unit of energy use, 2000 PPP\$/kg oil eq.....	3.5	93
3.3.2 Environmental performance*.....	54.4	61
3.3.3 ISO 14001 environmental certificates/bn PPP\$ GDP	0.5	82
4 Market sophistication	29.8	112
4.1 Credit	11.7	116
4.1.1 Ease of getting credit*	27.0	88
4.1.2 Domestic credit to private sector, % GDP.....	24.8	104
4.1.3 Microfinance gross loans, % GDP.....	0.2	65

4.2 Investment.....	16.1	97
4.2.1 Ease of protecting investors*.....	46.7	60
4.2.2 Market capitalization, % GDP.....	47.3	44
4.2.3 Total value of stocks traded, % GDP.....	1.5	68
4.2.4 Venture capital deals/tr PPP\$ GDP.....	0.0	65 ○
4.3 Trade & competition	61.6	78
4.3.1 Applied tariff rate, weighted mean, %.....	7.5	104
4.3.2 Non-agricultural mkt access weighted tariff, %.....	0.0	6 ●
4.3.3 Imports of goods & services, % GDP.....	43.3	63
4.3.4 Exports of goods & services, % GDP.....	25.6	105
4.3.5 Intensity of local competition†	62.8	68
5 Business sophistication	38.9	70
5.1 Knowledge workers.....	40.9	86
5.1.1 Knowledge-intensive employment, %.....	20.1	68
5.1.2 Firms offering formal training, % firms.....	25.9	73
5.1.3 R&D performed by business, %.....	n/a	n/a
5.1.4 R&D financed by business, %	n/a	n/a
5.1.5 GMAT mean score.....	454.9	105
5.1.6 GMAT test takers/mn pop. 20–34.....	319.7	15 ●
5.2 Innovation linkages	42.9	73 ●
5.2.1 University/industry research collaboration†	41.4	73
5.2.2 State of cluster development†	37.1	86
5.2.3 R&D financed by abroad, %.....	n/a	n/a
5.2.4 JV–strategic alliance deals/tr PPP\$ GDP	0.0	114 ○
5.2.5 PCT patent filings with foreign inventor, %.....	100.0	1 ●
5.3 Knowledge absorption	32.8	80
5.3.1 Royalty & license fees payments/th GDP.....	2.7	35 ●
5.3.2 High-tech imports less re-imports, %	4.8	107 ○
5.3.3 Computer & comm. service imports, %.....	36.7	45 ●
5.3.4 FDI net inflows, % GDP.....	1.6	90
6 Knowledge & technology outputs	11.7	139 ○
6.1 Knowledge creation	5.1	121 ○
6.1.1 Domestic resident patent ap/bn PPP\$ GDP	0.9	70
6.1.2 PCT resident patent ap/bn PPP\$ GDP.....	n/a	n/a
6.1.3 Domestic res utility model ap/bn PPP\$ GDP.....	n/a	n/a
6.1.4 Scientific & technical articles/bn PPP\$ GDP.....	2.1	80
6.2 Knowledge impact	13.3	130 ○
6.2.1 Growth rate of PPP\$ GDP/worker, %.....	-1.7	113 ○
6.2.2 New businesses/th pop. 15–64.....	1.2	60
6.2.3 Computer software spending, % GDP.....	0.1	54
6.2.4 ISO 9001 quality certificates/bn PPP\$ GDP	0.7	119 ○
6.3 Knowledge diffusion	16.8	115
6.3.1 Royalty & license fees receipts/th GDP.....	0.4	52
6.3.2 High-tech exports less re-exports, %.....	0.2	98
6.3.3 Computer & comm. service exports, %	10.2	116 ○
6.3.4 FDI net outflows, % GDP	0.4	61
7 Creative outputs	32.5	68
7.1 Creative intangibles.....	49.1	31 ●
7.1.1 Domestic res trademark reg/bn PPP\$ GDP.....	n/a	n/a
7.1.2 Madrid resident trademark reg/bn PPP\$ GDP.....	n/a	n/a
7.1.3 ICT & business model creation†	51.7	68
7.1.4 ICT & organizational model creation†	46.5	74
7.2 Creative goods & services	10.9	94
7.2.1 Recreation & culture consumption, %.....	n/a	n/a
7.2.2 National feature films/mn pop. 15–69.....	n/a	n/a
7.2.3 Paid-for dailies, circulation/th pop. 15–69.....	64.8	73
7.2.4 Creative goods exports, %.....	1.0	73
7.2.5 Creative services exports, %.....	2.5	55
7.3 Online creativity.....	21.1	72
7.3.1 Generic top-level domains (TLDs)/th pop. 15–69.....	3.4	72
7.3.2 Country-code TLDs/th pop. 15–69.....	21.2	72
7.3.3 Wikipedia monthly edits/mn pop. 15–69.....	278.6	90
7.3.4 Video uploads on YouTube/pop. 15–69.....	58.3	61

Japan

Key indicators

Population (millions)	127.9
GDP per capita, PPP\$	34,362.1
GDP (US\$ billions)	5,855.4

	Score (0–100) or value (hard data)	Rank
Global Innovation Index 2012 (out of 141).....	51.7	25
Innovation Output Sub-Index	42.0	28
Innovation Input Sub-Index	61.3	18
Innovation Efficiency Index	0.7	88
Global Innovation Index 2011 (out of 125)	20	
GII 2012 rank among GII 2011 economies (125)	24	
1 Institutions.....	79.0	23
1.1 Political environment	86.0	16
1.1.1 Political stability*.....	86.4	23
1.1.2 Government effectiveness*.....	77.7	21
1.1.3 Press freedom*.....	93.9	21
1.2 Regulatory environment.....	89.8	18
1.2.1 Regulatory quality*.....	76.6	30
1.2.2 Rule of law*.....	82.6	22
1.2.3 Cost of redundancy dismissal, salary weeks.....	8.0	1 ●
1.3 Business environment	61.1	40
1.3.1 Ease of starting a business*.....	43.1	80
1.3.2 Ease of resolving insolvency*.....	100.0	1 ●
1.3.3 Ease of paying taxes*.....	40.2	84
2 Human capital & research.....	54.6	19
2.1 Education.....	56.6	52
2.1.1 Current expenditure on education, % GNI	3.2	98 ○
2.1.2 Public expenditure/pupil, % GDP/cap.....	20.3	56
2.1.3 School life expectancy, years.....	15.2	31
2.1.4 PISA scales in reading, maths, & science.....	529.4	6
2.1.5 Pupil-teacher ratio, secondary	12.0	45
2.2 Tertiary education	37.6	56
2.2.1 Tertiary enrolment, % gross.....	59.0	36
2.2.2 Graduates in science & engineering, %	20.6	53
2.2.3 Tertiary inbound mobility, %.....	3.4	41
2.2.4 Gross tertiary outbound enrolment, %	0.6	89
2.3 Research & development (R&D).....	69.6	6
2.3.1 Researchers, headcounts/mn pop.	7,038.4	6
2.3.2 Gross expenditure on R&D, % GDP.....	3.4	4 ●
2.3.3 Quality of scientific research institutions†	75.7	11
3 Infrastructure.....	61.6	7
3.1 Information & communication technologies (ICT).....	75.5	10
3.1.1 ICT access*.....	71.4	26
3.1.2 ICT use*.....	70.8	5
3.1.3 Government's online service*.....	86.3	9
3.1.4 E-participation*.....	73.7	11
3.2 General infrastructure	53.8	17
3.2.1 Electricity output, kWh/cap.....	8,396.3	20
3.2.2 Electricity consumption, kWh/cap.....	8,110.3	19
3.2.3 Quality of trade & transport infrastructure*.....	79.8	5
3.2.4 Gross capital formation, % GDP.....	20.2	88
3.3 Ecological sustainability	55.4	12
3.3.1 GDP/unit of energy use, 2000 PPP\$/kg oil eq.....	7.1	35
3.3.2 Environmental performance*.....	63.4	23
3.3.3 ISO 14001 environmental certificates/bn PPP\$ GDP.....	8.1	11
4 Market sophistication	57.7	18
4.1 Credit	68.0	9
4.1.1 Ease of getting credit*.....	77.4	21
4.1.2 Domestic credit to private sector, % GDP.....	169.2	12
4.1.3 Microfinance gross loans, % GDP.....	n/a	n/a

4.2 Investment.....	49.2	19
4.2.1 Ease of protecting investors*.....	87.0	16
4.2.2 Market capitalization, % GDP.....	74.6	31
4.2.3 Total value of stocks traded, % GDP.....	77.9	12
4.2.4 Venture capital deals/tr PPP\$ GDP.....	6.4	53
4.3 Trade & competition	55.9	110 ○
4.3.1 Applied tariff rate, weighted mean, %.....	1.6	10
4.3.2 Non-agricultural mkt access weighted tariff, %.....	3.7	130 ○
4.3.3 Imports of goods & services, % GDP.....	14.1	140 ○
4.3.4 Exports of goods & services, % GDP.....	15.2	130 ○
4.3.5 Intensity of local competition†	82.0	3 ●
5 Business sophistication	53.6	21
5.1 Knowledge workers.....	78.6	8
5.1.1 Knowledge-intensive employment, %.....	37.8	25
5.1.2 Firms offering formal training, % firms.....	n/a	n/a
5.1.3 R&D performed by business, %.....	78.5	3 ●
5.1.4 R&D financed by business, %	78.2	3 ●
5.1.5 GMAT mean score.....	546.3	40
5.1.6 GMAT test takers/mn pop. 20–34.....	111.9	48
5.2 Innovation linkages	36.9	62
5.2.1 University/industry research collaboration†	67.6	15
5.2.2 State of cluster development†	66.8	3 ●
5.2.3 R&D financed by abroad, %.....	0.4	89 ○
5.2.4 JV-strategic alliance deals/tr PPP\$ GDP	40.3	34
5.2.5 PCT patent filings with foreign inventor, %.....	4.1	101 ○
5.3 Knowledge absorption	45.5	28
5.3.1 Royalty & license fees payments/th GDP.....	3.4	29
5.3.2 High-tech imports less re-imports, %	13.9	26
5.3.3 Computer & comm. service imports, %.....	49.7	16
5.3.4 FDI net inflows, % GDP.....	0.0	132 ○
6 Knowledge & technology outputs.....	51.7	15
6.1 Knowledge creation.....	62.5	14
6.1.1 Domestic resident patent ap/bn PPP\$ GDP	67.1	1 ●
6.1.2 PCT resident patent ap/bn PPP\$ GDP.....	8.8	4 ●
6.1.3 Domestic res utility model ap/bn PPP\$ GDP.....	1.6	23
6.1.4 Scientific & technical articles/bn PPP\$ GDP.....	12.1	31
6.2 Knowledge impact	36.4	57
6.2.1 Growth rate of PPP\$ GDP/worker, %.....	3.9	35
6.2.2 New businesses/th pop. 15–64.....	1.3	52
6.2.3 Computer software spending, % GDP.....	0.3	33
6.2.4 ISO 9001 quality certificates/bn PPP\$ GDP	13.6	38
6.3 Knowledge diffusion	56.3	14
6.3.1 Royalty & license fees receipts/th GDP.....	4.9	12
6.3.2 High-tech exports less re-exports, %.....	16.2	16
6.3.3 Computer & comm. service exports, %	62.2	12
6.3.4 FDI net outflows, % GDP	1.0	39
7 Creative outputs	32.3	69
7.1 Creative intangibles.....	29.8	112 ○
7.1.1 Domestic res trademark reg/bn PPP\$ GDP.....	0.0	87 ○
7.1.2 Madrid resident trademark reg/bn PPP\$ GDP.....	0.3	40 ○
7.1.3 ICT & business model creation†	56.7	52
7.1.4 ICT & organizational model creation†	55.6	40
7.2 Creative goods & services	37.6	26
7.2.1 Recreation & culture consumption, %.....	10.8	10
7.2.2 National feature films/mn pop. 15–69.....	4.6	23
7.2.3 Paid-for dailies, circulation/th pop. 15–69.....	562.8	2 ●
7.2.4 Creative goods exports, %.....	0.8	83
7.2.5 Creative services exports, %.....	0.2	99 ○
7.3 Online creativity.....	32.2	43
7.3.1 Generic top-level domains (TLDs)/th pop. 15–69.....	13.0	41
7.3.2 Country-code TLDs/th pop. 15–69.....	38.1	48
7.3.3 Wikipedia monthly edits/mn pop. 15–69.....	2,955.9	43
7.3.4 Video uploads on YouTube/pop. 15–69.....	62.8	46

Key indicators

Population (millions)	6.3
GDP per capita, PPP\$	5,900.3
GDP (US\$ billions)	28.4

	Score (0–100) or value (hard data)	Rank
Global Innovation Index 2012 (out of 141).....	37.1	56
Innovation Output Sub-Index	34.6	46
Innovation Input Sub-Index	39.7	72
Innovation Efficiency Index	0.9	21 ●
Global Innovation Index 2011 (out of 125)	41	
GII 2012 rank among GII 2011 economies (125)	54	

1	Institutions.....	61.7	57
1.1	Political environment	52.3	81
1.1.1	Political stability*.....	58.9	87
1.1.2	Government effectiveness*.....	43.0	64
1.1.3	Press freedom*.....	54.9	103
1.2	Regulatory environment.....	77.9	39
1.2.1	Regulatory quality*.....	57.9	64
1.2.2	Rule of law*.....	53.6	51
1.2.3	Cost of redundancy dismissal, salary weeks.....	8.0	1 ●
1.3	Business environment	55.1	60
1.3.1	Ease of starting a business*.....	43.8	79
1.3.2	Ease of resolving insolvency*.....	33.0	94
1.3.3	Ease of paying taxes*.....	88.4	17 ●
2	Human capital & research.....	42.0	49
2.1	Education.....	60.9	32
2.1.1	Current expenditure on education, % GNI	5.6	26 ●
2.1.2	Public expenditure/pupil, % GDP/cap.....	n/a	n/a
2.1.3	School life expectancy, years.....	13.3	66
2.1.4	PISA scales in reading, maths, & science.....	402.4	55
2.1.5	Pupil-teacher ratio, secondary	11.9	44
2.2	Tertiary education	45.9	31 ●
2.2.1	Tertiary enrolment, % gross.....	41.8	55
2.2.2	Graduates in science & engineering, %	25.1	24
2.2.3	Tertiary inbound mobility, %.....	10.4	15 ●
2.2.4	Gross tertiary outbound enrolment, %	1.6	54
2.3	Research & development (R&D).....	19.3	83
2.3.1	Researchers, headcounts/mn pop.	1,933.7	39
2.3.2	Gross expenditure on R&D, % GDP.....	0.4	62
2.3.3	Quality of scientific research institutions†.....	34.0	101
3	Infrastructure.....	27.5	97
3.1	Information & communication technologies (ICT).....	27.0	87
3.1.1	ICT access*.....	43.2	69
3.1.2	ICT use*	15.2	76
3.1.3	Government's online service*.....	39.2	95
3.1.4	E-participation*.....	10.5	93
3.2	General infrastructure	28.1	113
3.2.1	Electricity output, kWh/cap.....	2,386.6	69
3.2.2	Electricity consumption, kWh/cap.....	2,099.1	67
3.2.3	Quality of trade & transport infrastructure*.....	42.3	54
3.2.4	Gross capital formation, % GDP.....	15.3	128 ○
3.3	Ecological sustainability	27.4	85
3.3.1	GDP/unit of energy use, 2000 PPP\$/kg oil eq.....	4.7	77
3.3.2	Environmental performance*.....	42.2	112 ○
3.3.3	ISO 14001 environmental certificates/bn PPP\$ GDP.....	2.0	45
4	Market sophistication	35.3	85
4.1	Credit	15.2	109
4.1.1	Ease of getting credit*	15.3	112 ○
4.1.2	Domestic credit to private sector, % GDP.....	70.3	47
4.1.3	Microfinance gross loans, % GDP.....	0.6	43

4.2	Investment.....	35.4	41
4.2.1	Ease of protecting investors*.....	22.3	100
4.2.2	Market capitalization, % GDP.....	111.9	14 ●
4.2.3	Total value of stocks traded, % GDP.....	34.3	28
4.2.4	Venture capital deals/tr PPP\$ GDP.....	27.1	37
4.3	Trade & competition	55.2	112
4.3.1	Applied tariff rate, weighted mean, %.....	5.2	82
4.3.2	Non-agricultural mkt access weighted tariff, %.....	4.6	132 ○
4.3.3	Imports of goods & services, % GDP.....	65.9	27 ●
4.3.4	Exports of goods & services, % GDP.....	44.5	52
4.3.5	Intensity of local competition†	72.7	32
5	Business sophistication	31.7	116
5.1	Knowledge workers.....	37.9	96
5.1.1	Knowledge-intensive employment, %.....	n/a	n/a
5.1.2	Firms offering formal training, % firms.....	23.9	83
5.1.3	R&D performed by business, %.....	n/a	n/a
5.1.4	R&D financed by business, %	n/a	n/a
5.1.5	GMAT mean score.....	435.0	111
5.1.6	GMAT test takers/mn pop. 20–34.....	170.4	35
5.2	Innovation linkages	30.0	99
5.2.1	University/industry research collaboration†	34.5	110 ○
5.2.2	State of cluster development†.....	40.3	71
5.2.3	R&D financed by abroad, %.....	n/a	n/a
5.2.4	JV–strategic alliance deals/tr PPP\$ GDP	32.5	45
5.2.5	PCT patent filings with foreign inventor, %.....	14.3	87 ○
5.3	Knowledge absorption	27.3	111
5.3.1	Royalty & license fees payments/th GDP.....	n/a	n/a
5.3.2	High-tech imports less re-imports, %	5.1	101 ○
5.3.3	Computer & comm. service imports, %.....	10.3	125 ○
5.3.4	FDI net inflows, % GDP.....	6.2	31 ●
6	Knowledge & technology outputs	24.1	83
6.1	Knowledge creation.....	20.8	73
6.1.1	Domestic resident patent ap/bn PPP\$ GDP	1.3	62
6.1.2	PCT resident patent ap/bn PPP\$ GDP.....	n/a	n/a
6.1.3	Domestic res utility model ap/bn PPP\$ GDP.....	n/a	n/a
6.1.4	Scientific & technical articles/bn PPP\$ GDP.....	11.2	33
6.2	Knowledge impact	28.7	88
6.2.1	Growth rate of PPP\$ GDP/worker, %.....	0.7	98 ○
6.2.2	New businesses/th pop. 15–64.....	0.7	72
6.2.3	Computer software spending, % GDP.....	0.1	49
6.2.4	ISO 9001 quality certificates/bn PPP\$ GDP	17.6	28 ●
6.3	Knowledge diffusion	22.9	88
6.3.1	Royalty & license fees receipts/th GDP.....	n/a	n/a
6.3.2	High-tech exports less re-exports, %.....	1.7	63
6.3.3	Computer & comm. service exports, %	11.7	115 ○
6.3.4	FDI net outflows, % GDP	0.1	82
7	Creative outputs	45.1	24 ●
7.1	Creative intangibles.....	68.8	5 ●
7.1.1	Domestic res trademark reg/bn PPP\$ GDP.....	211.7	1 ●
7.1.2	Madrid resident trademark reg/bn PPP\$ GDP.....	n/a	n/a
7.1.3	ICT & business model creation†.....	52.8	64
7.1.4	ICT & organizational model creation†.....	53.5	48
7.2	Creative goods & services	24.6	59
7.2.1	Recreation & culture consumption, %.....	2.4	77
7.2.2	National feature films/mn pop. 15–69.....	n/a	n/a
7.2.3	Paid-for dailies, circulation/th pop. 15–69.....	86.3	62
7.2.4	Creative goods exports, %.....	2.8	29 ●
7.2.5	Creative services exports, %.....	n/a	n/a
7.3	Online creativity.....	18.1	81
7.3.1	Generic top-level domains (TLDs)/th pop. 15–69.....	3.5	69
7.3.2	Country-code TLDs/th pop. 15–69.....	10.6	97
7.3.3	Wikipedia monthly edits/mn pop. 15–69.....	805.8	71
7.3.4	Video uploads on YouTube/pop. 15–69.....	54.3	71

Kazakhstan

Key indicators

Population (millions)	16.5
GDP per capita, PPP\$	13,060.0
GDP (US\$ billions)	180.1

	Score (0–100) or value (hard data)	Rank
Global Innovation Index 2012 (out of 141).....	31.9	83
Innovation Output Sub-Index	22.4	105
Innovation Input Sub-Index	41.4	67
Innovation Efficiency Index	0.5	131 ○
Global Innovation Index 2011 (out of 125)		84
GII 2012 rank among GII 2011 economies (125)		79

1 Institutions.....	64.5	52
1.1 Political environment	50.3	83
1.1.1 Political stability*.....	76.5	46
1.1.2 Government effectiveness*.....	33.7	84
1.1.3 Press freedom*.....	40.9	124 ○
1.2 Regulatory environment.....	68.0	65
1.2.1 Regulatory quality*.....	43.5	93
1.2.2 Rule of law*.....	31.3	102
1.2.3 Cost of redundancy dismissal, salary weeks.....	8.7	23 ●
1.3 Business environment	75.0	23 ●
1.3.1 Ease of starting a business*.....	71.9	40
1.3.2 Ease of resolving insolvency*.....	69.0	44
1.3.3 Ease of paying taxes*.....	84.1	23 ●

2 Human capital & research.....	31.2	85
2.1 Education.....	51.6	69
2.1.1 Current expenditure on education, % GNI	4.4	57
2.1.2 Public expenditure/pupil, % GDP/cap.....	11.6	101
2.1.3 School life expectancy, years.....	15.3	29 ●
2.1.4 PISA scales in reading, maths, & science.....	398.6	59
2.1.5 Pupil-teacher ratio, secondary	8.9	15 ●
2.2 Tertiary education	29.5	78
2.2.1 Tertiary enrolment, % gross.....	40.8	56
2.2.2 Graduates in science & engineering, %	n/a	n/a
2.2.3 Tertiary inbound mobility, %.....	1.6	59
2.2.4 Gross tertiary outbound enrolment, %	2.3	41
2.3 Research & development (R&D).....	12.5	118
2.3.1 Researchers, headcounts/mn pop.	637.3	68
2.3.2 Gross expenditure on R&D, % GDP.....	0.2	79
2.3.3 Quality of scientific research institutions†	28.0	116 ○

3 Infrastructure.....	37.3	58
3.1 Information & communication technologies (ICT).....	58.4	27 ●
3.1.1 ICT access*.....	46.1	63
3.1.2 ICT use*.....	14.4	79
3.1.3 Government's online service*.....	78.4	21 ●
3.1.4 E-participation*.....	94.7	3 ●
3.2 General infrastructure	38.7	58
3.2.1 Electricity output, kWh/cap.....	4,859.2	47
3.2.2 Electricity consumption, kWh/cap.....	4,505.6	43
3.2.3 Quality of trade & transport infrastructure*.....	41.5	55
3.2.4 Gross capital formation, % GDP.....	25.1	41

3.3 Ecological sustainability	14.9	123 ○
3.3.1 GDP/unit of energy use, 2000 PPP\$/kg oil eq.....	2.0	115 ○
3.3.2 Environmental performance*.....	32.9	121 ○
3.3.3 ISO 14001 environmental certificates/bn PPP\$ GDP	0.6	71

4 Market sophistication	34.0	92
4.1 Credit	17.2	102
4.1.1 Ease of getting credit*.....	38.7	72
4.1.2 Domestic credit to private sector, % GDP.....	39.3	82
4.1.3 Microfinance gross loans, % GDP.....	0.1	69

4.2 Investment.....	20.8	82
4.2.1 Ease of protecting investors*.....	66.9	35
4.2.2 Market capitalization, % GDP.....	42.5	50
4.2.3 Total value of stocks traded, % GDP.....	1.6	66
4.2.4 Venture capital deals/tr PPP\$ GDP.....	0.0	65 ○

4.3 Trade & competition	63.9	67
4.3.1 Applied tariff rate, weighted mean, %.....	3.4	56
4.3.2 Non-agricultural mkt access weighted tariff, %.....	0.3	40
4.3.3 Imports of goods & services, % GDP.....	29.2	108
4.3.4 Exports of goods & services, % GDP.....	44.0	54
4.3.5 Intensity of local competition†	50.9	113

5 Business sophistication	40.2	62
5.1 Knowledge workers.....	45.0	69
5.1.1 Knowledge-intensive employment, %.....	28.3	46
5.1.2 Firms offering formal training, % firms.....	40.9	43
5.1.3 R&D performed by business, %.....	32.7	51
5.1.4 R&D financed by business, %	13.5	70
5.1.5 GMAT mean score.....	476.8	88
5.1.6 GMAT test takers/mn pop. 20–34.....	73.2	59

5.2 Innovation linkages	33.4	82
5.2.1 University/industry research collaboration†	32.3	113
5.2.2 State of cluster development†	41.5	67
5.2.3 R&D financed by abroad, %.....	1.0	83 ○
5.2.4 JV–strategic alliance deals/tr PPP\$ GDP	26.6	54
5.2.5 PCT patent filings with foreign inventor, %.....	100.0	1 ●

5.3 Knowledge absorption	42.3	39
5.3.1 Royalty & license fees payments/th GDP.....	0.6	85
5.3.2 High-tech imports less re-imports, %	8.2	68
5.3.3 Computer & comm. service imports, %.....	63.4	6 ●
5.3.4 FDI net inflows, % GDP.....	6.7	29 ●

6 Knowledge & technology outputs	23.8	85
6.1 Knowledge creation.....	13.1	103
6.1.1 Domestic resident patent ap/bn PPP\$ GDP	0.1	105 ○
6.1.2 PCT resident patent ap/bn PPP\$ GDP.....	0.1	74
6.1.3 Domestic res utility model ap/bn PPP\$ GDP.....	0.5	37
6.1.4 Scientific & technical articles/bn PPP\$ GDP.....	0.5	130 ○

6.2 Knowledge impact	37.1	54
6.2.1 Growth rate of PPP\$ GDP/worker, %.....	4.1	30
6.2.2 New businesses/th pop. 15–64.....	2.6	38
6.2.3 Computer software spending, % GDP.....	n/a	n/a
6.2.4 ISO 9001 quality certificates/bn PPP\$ GDP	3.4	77

6.3 Knowledge diffusion	21.3	97
6.3.1 Royalty & license fees receipts/th GDP.....	0.0	104 ○
6.3.2 High-tech exports less re-exports, %.....	4.2	46
6.3.3 Computer & comm. service exports, %	13.7	108
6.3.4 FDI net outflows, % GDP	5.2	11 ●

7 Creative outputs	21.0	119
7.1 Creative intangibles.....	29.2	114
7.1.1 Domestic res trademark reg/bn PPP\$ GDP.....	31.0	47
7.1.2 Madrid resident trademark reg/bn PPP\$ GDP.....	0.2	46
7.1.3 ICT & business model creation†	47.1	83
7.1.4 ICT & organizational model creation†	51.3	57

7.2 Creative goods & services	8.4	109
7.2.1 Recreation & culture consumption, %.....	2.4	76
7.2.2 National feature films/mn pop. 15–69.....	1.1	66
7.2.3 Paid-for dailies, circulation/th pop. 15–69.....	28.5	99
7.2.4 Creative goods exports, %.....	0.0	125 ○
7.2.5 Creative services exports, %.....	3.5	48

7.3 Online creativity.....	17.3	85
7.3.1 Generic top-level domains (TLDs)/th pop. 15–69.....	1.2	93
7.3.2 Country-code TLDs/th pop. 15–69.....	21.7	70
7.3.3 Wikipedia monthly edits/mn pop. 15–69.....	1,060.6	58
7.3.4 Video uploads on YouTube/pop. 15–69.....	40.8	96

Key indicators

Population (millions)	40.9
GDP per capita, PPP\$	1,750.8
GDP (US\$ billions)	36.1

	Score (0–100) or value (hard data)	Rank
Global Innovation Index 2012 (out of 141).....	28.9	96
Innovation Output Sub-Index	21.3	114
Innovation Input Sub-Index	36.6	89
Innovation Efficiency Index	0.6	129 ○
Global Innovation Index 2011 (out of 125)	89	89
GII 2012 rank among GII 2011 economies (125)	91	91

1	Institutions.....	43.7	103
1.1	Political environment	45.5	101
1.1.1	Political stability*.....	36.3	122
1.1.2	Government effectiveness*.....	26.9	99
1.1.3	Press freedom*.....	73.3	67
1.2	Regulatory environment.....	59.7	92
1.2.1	Regulatory quality*.....	48.5	80
1.2.2	Rule of law*.....	20.9	123 ○
1.2.3	Cost of redundancy dismissal, salary weeks.....	15.8	71
1.3	Business environment	25.8	118
1.3.1	Ease of starting a business*.....	25.8	104
1.3.2	Ease of resolving insolvency*.....	42.4	81
1.3.3	Ease of paying taxes*.....	9.3	127 ○
2	Human capital & research.....	33.0	72
2.1	Education.....	44.2	96
2.1.1	Current expenditure on education, % GNI	5.9	21 ●
2.1.2	Public expenditure/pupil, % GDP/cap.....	23.7	36
2.1.3	School life expectancy, years.....	11.1	103
2.1.4	PISA scales in reading, maths, & science.....	n/a	n/a
2.1.5	Pupil-teacher ratio, secondary	29.7	120 ○
2.2	Tertiary education	34.7	61
2.2.1	Tertiary enrolment, % gross.....	4.0	125 ○
2.2.2	Graduates in science & engineering, %	30.2	10 ●
2.2.3	Tertiary inbound mobility, %.....	n/a	n/a
2.2.4	Gross tertiary outbound enrolment, %	0.3	114
2.3	Research & development (R&D).....	20.0	75
2.3.1	Researchers, headcounts/mn pop.	93.6	101
2.3.2	Gross expenditure on R&D, % GDP.....	0.4	63
2.3.3	Quality of scientific research institutions†.....	50.1	50
3	Infrastructure.....	21.6	120
3.1	Information & communication technologies (ICT).....	20.1	104
3.1.1	ICT access*.....	21.7	115
3.1.2	ICT use*	10.5	88
3.1.3	Government's online service*.....	43.1	86
3.1.4	E-participation*.....	5.3	110
3.2	General infrastructure	24.3	126 ○
3.2.1	Electricity output, kWh/cap.....	178.1	116 ○
3.2.2	Electricity consumption, kWh/cap.....	146.2	116 ○
3.2.3	Quality of trade & transport infrastructure*.....	28.5	106
3.2.4	Gross capital formation, % GDP.....	21.3	82
3.3	Ecological sustainability	20.2	112
3.3.1	GDP/unit of energy use, 2000 PPP\$/kg oil eq.....	2.4	109 ○
3.3.2	Environmental performance*.....	49.3	80
3.3.3	ISO 14001 environmental certificates/bn PPP\$ GDP	0.3	94
4	Market sophistication	45.6	41
4.1	Credit	47.7	30 ●
4.1.1	Ease of getting credit*	87.6	8 ●
4.1.2	Domestic credit to private sector, % GDP.....	33.8	87
4.1.3	Microfinance gross loans, % GDP.....	3.8	14 ●

4.2	Investment.....	32.1	50
4.2.1	Ease of protecting investors*.....	35.9	76
4.2.2	Market capitalization, % GDP.....	46.0	47
4.2.3	Total value of stocks traded, % GDP.....	3.5	61
4.2.4	Venture capital deals/tr PPP\$ GDP.....	69.8	19 ●
4.3	Trade & competition	56.9	105
4.3.1	Applied tariff rate, weighted mean, %.....	9.2	120
4.3.2	Non-agricultural mkt access weighted tariff, %.....	0.8	67
4.3.3	Imports of goods & services, % GDP	38.9	73
4.3.4	Exports of goods & services, % GDP	26.0	103
4.3.5	Intensity of local competition†	65.4	64
5	Business sophistication	39.1	66
5.1	Knowledge workers.....	38.3	95
5.1.1	Knowledge-intensive employment, %.....	n/a	n/a
5.1.2	Firms offering formal training, % firms.....	48.5	32
5.1.3	R&D performed by business, %.....	11.7	73
5.1.4	R&D financed by business, %	16.8	66
5.1.5	GMAT mean score.....	427.3	115
5.1.6	GMAT test takers/mn pop. 20–34.....	61.8	71
5.2	Innovation linkages	47.1	29 ●
5.2.1	University/industry research collaboration†	47.9	46
5.2.2	State of cluster development†	45.6	51
5.2.3	R&D financed by abroad, %.....	17.6	15 ●
5.2.4	JV–strategic alliance deals/tr PPP\$ GDP	30.7	49
5.2.5	PCT patent filings with foreign inventor, %.....	100.0	1 ●
5.3	Knowledge absorption	32.0	87
5.3.1	Royalty & license fees payments/th GDP.....	0.6	87
5.3.2	High-tech imports less re-imports, %	13.8	27 ●
5.3.3	Computer & comm. service imports, %.....	26.4	78
5.3.4	FDI net inflows, % GDP.....	0.6	120
6	Knowledge & technology outputs	20.8	102
6.1	Knowledge creation.....	18.1	85
6.1.1	Domestic resident patent ap/bn PPP\$ GDP	1.2	66
6.1.2	PCT resident patent ap/bn PPP\$ GDP	0.1	62
6.1.3	Domestic res utility model ap/bn PPP\$ GDP.....	0.3	45
6.1.4	Scientific & technical articles/bn PPP\$ GDP.....	4.7	60
6.2	Knowledge impact	20.1	120
6.2.1	Growth rate of PPP\$ GDP/worker, %.....	1.4	86
6.2.2	New businesses/th pop. 15–64.....	0.9	66
6.2.3	Computer software spending, % GDP.....	0.3	28
6.2.4	ISO 9001 quality certificates/bn PPP\$ GDP	0.2	134 ○
6.3	Knowledge diffusion	24.0	80
6.3.1	Royalty & license fees receipts/th GDP.....	1.7	24 ●
6.3.2	High-tech exports less re-exports, %.....	2.3	56
6.3.3	Computer & comm. service exports, %	18.3	95
6.3.4	FDI net outflows, % GDP	0.0	98
7	Creative outputs	21.9	116
7.1	Creative intangibles.....	33.2	102
7.1.1	Domestic res trademark reg/bn PPP\$ GDP.....	27.5	55
7.1.2	Madrid resident trademark reg/bn PPP\$ GDP.....	0.1	50
7.1.3	ICT & business model creation†	58.2	45
7.1.4	ICT & organizational model creation†	58.9	29 ●
7.2	Creative goods & services	12.9	87
7.2.1	Recreation & culture consumption, %.....	4.2	59
7.2.2	National feature films/mn pop. 15–69.....	n/a	n/a
7.2.3	Paid-for dailies, circulation/th pop. 15–69.....	14.1	110
7.2.4	Creative goods exports, %.....	1.0	71
7.2.5	Creative services exports, %.....	0.1	104 ○
7.3	Online creativity.....	8.2	119
7.3.1	Generic top-level domains (TLDs)/th pop. 15–69.....	0.9	102
7.3.2	Country-code TLDs/th pop. 15–69.....	8.6	100
7.3.3	Wikipedia monthly edits/mn pop. 15–69.....	25.8	114 ○
7.3.4	Video uploads on YouTube/pop. 15–69	23.1	118

Korea (Republic of)

Key indicators

Population (millions)	49.0
GDP per capita, PPP\$	31,753.5
GDP (US\$ billions)	1,163.8

	Score (0–100) or value (hard data)	Rank
Global Innovation Index 2012 (out of 141).....	53.9	21
Innovation Output Sub-Index	45.9	24
Innovation Input Sub-Index	61.8	16
Innovation Efficiency Index	0.7	69
Global Innovation Index 2011 (out of 125)		16
GII 2012 rank among GII 2011 economies (125)		20

1	Institutions.....	73.8	27
1.1	Political environment	74.9	36
1.1.1	Political stability*.....	67.7	59
1.1.2	Government effectiveness*.....	72.2	25
1.1.3	Press freedom*.....	84.7	40
1.2	Regulatory environment.....	68.0	66
1.2.1	Regulatory quality*.....	74.9	34
1.2.2	Rule of law*.....	74.0	29
1.2.3	Cost of redundancy dismissal, salary weeks.....	27.4	117 ○
1.3	Business environment	78.6	19
1.3.1	Ease of starting a business*.....	66.1	47
1.3.2	Ease of resolving insolvency*.....	92.0	12
1.3.3	Ease of paying taxes*.....	77.6	32
2	Human capital & research.....	59.0	8
2.1	Education.....	58.2	45
2.1.1	Current expenditure on education, % GNI	3.9	79
2.1.2	Public expenditure/pupil, % GDP/cap.....	20.5	54
2.1.3	School life expectancy, years.....	17.0	6 ●
2.1.4	PISA scales in reading, maths, & science.....	541.2	5
2.1.5	Pupil-teacher ratio, secondary	18.0	86 ○
2.2	Tertiary education	55.9	11
2.2.1	Tertiary enrolment, % gross.....	103.9	1 ●
2.2.2	Graduates in science & engineering, %	31.5	8
2.2.3	Tertiary inbound mobility, %.....	1.6	62
2.2.4	Gross tertiary outbound enrolment, %	1.6	58
2.3	Research & development (R&D).....	63.0	10
2.3.1	Researchers, headcounts/mn pop.	6,285.9	9
2.3.2	Gross expenditure on R&D, % GDP.....	3.4	5 ●
2.3.3	Quality of scientific research institutions†	63.6	24
3	Infrastructure.....	64.2	3 ●
3.1	Information & communication technologies (ICT).....	90.2	1 ●
3.1.1	ICT access*.....	82.1	10
3.1.2	ICT use*.....	78.5	1 ●
3.1.3	Government's online service*.....	100.0	1 ●
3.1.4	E-participation*.....	100.0	1 ●
3.2	General infrastructure	57.6	13
3.2.1	Electricity output, kWh/cap.....	9,780.7	13
3.2.2	Electricity consumption, kWh/cap.....	9,509.6	14
3.2.3	Quality of trade & transport infrastructure*.....	65.5	22
3.2.4	Gross capital formation, % GDP.....	29.2	21
3.3	Ecological sustainability	44.7	27
3.3.1	GDP/unit of energy use, 2000 PPP\$/kg oil eq.....	4.9	75 ○
3.3.2	Environmental performance*.....	57.2	42
3.3.3	ISO 14001 environmental certificates/bn PPP\$ GDP	6.6	16
4	Market sophistication	60.5	16
4.1	Credit	60.7	16
4.1.1	Ease of getting credit*.....	87.6	8
4.1.2	Domestic credit to private sector, % GDP.....	100.8	31
4.1.3	Microfinance gross loans, % GDP.....	n/a	n/a

4.2	Investment.....	63.0	10
4.2.1	Ease of protecting investors*.....	46.7	60
4.2.2	Market capitalization, % GDP.....	107.4	15
4.2.3	Total value of stocks traded, % GDP.....	160.3	1 ●
4.2.4	Venture capital deals/tr PPP\$ GDP.....	45.6	28
4.3	Trade & competition	57.9	95 ○
4.3.1	Applied tariff rate, weighted mean, %.....	8.7	115 ○
4.3.2	Non-agricultural mkt access weighted tariff, %.....	2.8	126 ○
4.3.3	Imports of goods & services, % GDP.....	49.6	50
4.3.4	Exports of goods & services, % GDP.....	52.4	41
4.3.5	Intensity of local competition†	77.4	14
5	Business sophistication	51.7	25
5.1	Knowledge workers.....	64.9	31
5.1.1	Knowledge-intensive employment, %.....	22.4	58
5.1.2	Firms offering formal training, % firms.....	39.5	44
5.1.3	R&D performed by business, %.....	75.4	4 ●
5.1.4	R&D financed by business, %	72.9	5
5.1.5	GMAT mean score.....	583.1	10
5.1.6	GMAT test takers/mn pop. 20–34.....	505.6	10
5.2	Innovation linkages	32.2	8 ○
5.2.1	University/industry research collaboration†	61.0	24
5.2.2	State of cluster development†	54.8	26
5.2.3	R&D financed by abroad, %.....	0.3	90 ○
5.2.4	JV–strategic alliance deals/tr PPP\$ GDP	36.9	38
5.2.5	PCT patent filings with foreign inventor, %.....	6.5	99 ○
5.3	Knowledge absorption	57.9	7
5.3.1	Royalty & license fees payments/th GDP.....	8.8	7
5.3.2	High-tech imports less re-imports, %	15.6	18
5.3.3	Computer & comm. service imports, %.....	49.8	15
5.3.4	FDI net inflows, % GDP.....	0.0	131 ○
6	Knowledge & technology outputs	57.5	9
6.1	Knowledge creation.....	81.5	3 ●
6.1.1	Domestic resident patent ap/bn PPP\$ GDP	89.9	1 ●
6.1.2	PCT resident patent ap/bn PPP\$ GDP	6.7	5 ●
6.1.3	Domestic res utility model ap/bn PPP\$ GDP.....	9.0	6
6.1.4	Scientific & technical articles/bn PPP\$ GDP.....	16.3	18
6.2	Knowledge impact	40.0	43
6.2.1	Growth rate of PPP\$ GDP/worker, %.....	4.9	20
6.2.2	New businesses/th pop. 15–64.....	1.7	49
6.2.3	Computer software spending, % GDP.....	0.2	35
6.2.4	ISO 9001 quality certificates/bn PPP\$ GDP	16.9	31
6.3	Knowledge diffusion	50.9	20
6.3.1	Royalty & license fees receipts/th GDP.....	3.1	18
6.3.2	High-tech exports less re-exports, %.....	24.0	6
6.3.3	Computer & comm. service exports, %	43.2	35
6.3.4	FDI net outflows, % GDP	1.9	24
7	Creative outputs	34.3	59
7.1	Creative intangibles.....	38.8	78
7.1.1	Domestic res trademark reg/bn PPP\$ GDP.....	32.9	44
7.1.2	Madrid resident trademark reg/bn PPP\$ GDP.....	0.2	44 ○
7.1.3	ICT & business model creation†	68.9	19
7.1.4	ICT & organizational model creation†	66.6	14
7.2	Creative goods & services	29.8	46
7.2.1	Recreation & culture consumption, %.....	7.8	25
7.2.2	National feature films/mn pop. 15–69.....	4.3	28
7.2.3	Paid-for dailies, circulation/th pop. 15–69.....	351.4	9
7.2.4	Creative goods exports, %.....	0.9	80 ○
7.2.5	Creative services exports, %.....	2.7	54
7.3	Online creativity.....	29.8	48
7.3.1	Generic top-level domains (TLDs)/th pop. 15–69.....	13.0	42
7.3.2	Country-code TLDs/th pop. 15–69.....	48.0	40
7.3.3	Wikipedia monthly edits/mn pop. 15–69.....	1,826.0	52
7.3.4	Video uploads on YouTube/pop. 15–69.....	49.1	80

Key indicators

Population (millions)	3.7
GDP per capita, PPP\$	40,740.2
GDP (US\$ billions)	171.1

	Score (0–100) or value (hard data)	Rank
Global Innovation Index 2012 (out of 141).....	37.2	55
Innovation Output Sub-Index	32.4	54
Innovation Input Sub-Index	42.0	61
Innovation Efficiency Index	0.8	54
Global Innovation Index 2011 (out of 125)	52	
GII 2012 rank among GII 2011 economies (125)	53	

1	Institutions.....	60.2	60
1.1	Political environment	64.5	53
1.1.1	Political stability*.....	75.6	47
1.1.2	Government effectiveness*.....	43.6	61
1.1.3	Press freedom*.....	74.3	61
1.2	Regulatory environment.....	59.7	93
1.2.1	Regulatory quality*.....	56.2	68
1.2.2	Rule of law*.....	62.2	44
1.2.3	Cost of redundancy dismissal, salary weeks.....	28.1	122 ○
1.3	Business environment	56.3	58
1.3.1	Ease of starting a business*.....	17.2	116
1.3.2	Ease of resolving insolvency*.....	59.7	57
1.3.3	Ease of paying taxes*.....	92.0	12 ●
2	Human capital & research.....	37.6	61
2.1	Education.....	55.4	54
2.1.1	Current expenditure on education, % GNI	3.2	97
2.1.2	Public expenditure/pupil, % GDP/cap.....	22.0	45
2.1.3	School life expectancy, years.....	14.2	48
2.1.4	PISA scales in reading, maths, & science.....	n/a	n/a
2.1.5	Pupil-teacher ratio, secondary	8.0	10 ●
2.2	Tertiary education	42.5	44
2.2.1	Tertiary enrolment, % gross.....	21.9	85
2.2.2	Graduates in science & engineering, %	n/a	n/a
2.2.3	Tertiary inbound mobility, %.....	n/a	n/a
2.2.4	Gross tertiary outbound enrolment, %	5.8	12 ●
2.3	Research & development (R&D).....	15.0	105
2.3.1	Researchers, headcounts/mn pop.	151.9	88
2.3.2	Gross expenditure on R&D, % GDP.....	0.1	98
2.3.3	Quality of scientific research institutions†.....	41.9	72
3	Infrastructure.....	34.8	65
3.1	Information & communication technologies (ICT).....	33.6	70
3.1.1	ICT access*.....	45.0	66
3.1.2	ICT use*	12.9	83
3.1.3	Government's online service*.....	58.2	47
3.1.4	E-participation*.....	18.4	71
3.2	General infrastructure	55.0	15
3.2.1	Electricity output, kWh/cap.....	15,270.0	6 ●
3.2.2	Electricity consumption, kWh/cap.....	16,673.0	5 ●
3.2.3	Quality of trade & transport infrastructure*.....	58.3	30
3.2.4	Gross capital formation, % GDP.....	13.9	133 ○
3.3	Ecological sustainability	15.9	120 ○
3.3.1	GDP/unit of energy use, 2000 PPP\$/kg oil eq.....	2.4	108 ○
3.3.2	Environmental performance*.....	35.5	118 ○
3.3.3	ISO 14001 environmental certificates/bn PPP\$ GDP	0.4	87
4	Market sophistication	43.2	51
4.1	Credit	27.1	80
4.1.1	Ease of getting credit*	27.0	88
4.1.2	Domestic credit to private sector, % GDP.....	82.4	41
4.1.3	Microfinance gross loans, % GDP	n/a	n/a

4.2	Investment.....	36.9	38
4.2.1	Ease of protecting investors*.....	76.2	27
4.2.2	Market capitalization, % GDP.....	87.6	20
4.2.3	Total value of stocks traded, % GDP.....	63.9	16
4.2.4	Venture capital deals/tr PPP\$ GDP.....	0.0	65 ○
4.3	Trade & competition	65.5	62
4.3.1	Applied tariff rate, weighted mean, %.....	4.1	71
4.3.2	Non-agricultural mkt access weighted tariff, %.....	0.8	66
4.3.3	Imports of goods & services, % GDP	28.0	113
4.3.4	Exports of goods & services, % GDP	56.4	30
4.3.5	Intensity of local competition†	61.6	76
5	Business sophistication	34.0	95
5.1	Knowledge workers.....	34.4	107
5.1.1	Knowledge-intensive employment, %.....	18.7	74
5.1.2	Firms offering formal training, % firms.....	n/a	n/a
5.1.3	R&D performed by business, %.....	n/a	n/a
5.1.4	R&D financed by business, %	2.3	83 ○
5.1.5	GMAT mean score.....	391.4	134 ○
5.1.6	GMAT test takers/mn pop. 20–34.....	547.7	9 ●
5.2	Innovation linkages	34.5	72
5.2.1	University/industry research collaboration†	36.0	102
5.2.2	State of cluster development†	38.9	80
5.2.3	R&D financed by abroad, %.....	1.2	80 ○
5.2.4	JV–strategic alliance deals/tr PPP\$ GDP	36.8	39
5.2.5	PCT patent filings with foreign inventor, %.....	100.0	1 ●
5.3	Knowledge absorption	33.1	77
5.3.1	Royalty & license fees payments/th GDP.....	n/a	n/a
5.3.2	High-tech imports less re-imports, %	n/a	n/a
5.3.3	Computer & comm. service imports, %.....	11.2	122 ○
5.3.4	FDI net inflows, % GDP	1.0	109
6	Knowledge & technology outputs	32.0	53
6.1	Knowledge creation.....	5.1	122
6.1.1	Domestic resident patent ap/bn PPP\$ GDP	n/a	n/a
6.1.2	PCT resident patent ap/bn PPP\$ GDP	n/a	n/a
6.1.3	Domestic res utility model ap/bn PPP\$ GDP.....	n/a	n/a
6.1.4	Scientific & technical articles/bn PPP\$ GDP.....	1.6	92
6.2	Knowledge impact	18.4	125 ○
6.2.1	Growth rate of PPP\$ GDP/worker, %.....	-1.5	111 ○
6.2.2	New businesses/th pop. 15–64.....	n/a	n/a
6.2.3	Computer software spending, % GDP.....	0.1	55
6.2.4	ISO 9001 quality certificates/bn PPP\$ GDP	2.1	94
6.3	Knowledge diffusion	72.5	3 ●
6.3.1	Royalty & license fees receipts/th GDP.....	n/a	n/a
6.3.2	High-tech exports less re-exports, %.....	n/a	n/a
6.3.3	Computer & comm. service exports, %	64.1	9 ●
6.3.4	FDI net outflows, % GDP	7.9	6 ●
7	Creative outputs	32.8	66
7.1	Creative intangibles.....	39.5	72
7.1.1	Domestic res trademark reg/bn PPP\$ GDP.....	n/a	n/a
7.1.2	Madrid resident trademark reg/bn PPP\$ GDP.....	n/a	n/a
7.1.3	ICT & business model creation†	41.7	110
7.1.4	ICT & organizational model creation†	37.3	105
7.2	Creative goods & services	28.6	51
7.2.1	Recreation & culture consumption, %.....	3.8	62
7.2.2	National feature films/mn pop. 15–69.....	n/a	n/a
7.2.3	Paid-for dailies, circulation/th pop. 15–69.....	505.7	4 ●
7.2.4	Creative goods exports, %.....	0.2	103
7.2.5	Creative services exports, %.....	n/a	n/a
7.3	Online creativity.....	23.7	59
7.3.1	Generic top-level domains (TLDs)/th pop. 15–69.....	6.1	57
7.3.2	Country-code TLDs/th pop. 15–69.....	13.2	86
7.3.3	Wikipedia monthly edits/mn pop. 15–69.....	2,049.2	49
7.3.4	Video uploads on YouTube/pop. 15–69	65.3	36

Key indicators

Population (millions)	5.5
GDP per capita, PPP\$	2,380.8
GDP (US\$ billions)	5.4

	Score (0–100) or value (hard data)	Rank
Global Innovation Index 2012 (out of 141).....	26.4	109
Innovation Output Sub-Index	17.3	131
Innovation Input Sub-Index	35.5	90
Innovation Efficiency Index	0.5	134 ○
Global Innovation Index 2011 (out of 125)	85	
GII 2012 rank among GII 2011 economies (125)	102	

1	Institutions.....	46.2	100
1.1	Political environment	44.3	105
1.1.1	Political stability*.....	42.2	117
1.1.2	Government effectiveness*.....	24.4	108
1.1.3	Press freedom*.....	66.2	85
1.2	Regulatory environment.....	55.5	103
1.2.1	Regulatory quality*.....	45.4	89
1.2.2	Rule of law*.....	13.5	137 ○
1.2.3	Cost of redundancy dismissal, salary weeks.....	17.3	80
1.3	Business environment	38.8	97
1.3.1	Ease of starting a business*.....	91.3	13 ●
1.3.2	Ease of resolving insolvency*.....	10.7	125
1.3.3	Ease of paying taxes*.....	14.3	120
2	Human capital & research.....	30.5	86
2.1	Education.....	50.1	72
2.1.1	Current expenditure on education, % GNI	6.0	20 ●
2.1.2	Public expenditure/pupil, % GDP/cap.....	22.9	43
2.1.3	School life expectancy, years.....	12.6	78
2.1.4	PISA scales in reading, maths, & science.....	324.9	70 ○
2.1.5	Pupil-teacher ratio, secondary	15.2	70
2.2	Tertiary education	33.8	65
2.2.1	Tertiary enrolment, % gross.....	48.8	49
2.2.2	Graduates in science & engineering, %	15.2	76
2.2.3	Tertiary inbound mobility, %.....	6.9	22
2.2.4	Gross tertiary outbound enrolment, %	0.7	85
2.3	Research & development (R&D).....	7.6	131
2.3.1	Researchers, headcounts/mn pop.	434.5	74
2.3.2	Gross expenditure on R&D, % GDP.....	0.2	91
2.3.3	Quality of scientific research institutions†.....	16.5	131 ○
3	Infrastructure.....	26.3	102
3.1	Information & communication technologies (ICT).....	25.9	91
3.1.1	ICT access*.....	23.8	107
3.1.2	ICT use*.....	8.2	94
3.1.3	Government's online service*.....	42.5	88
3.1.4	E-participation*.....	29.0	52
3.2	General infrastructure	31.4	96
3.2.1	Electricity output, kWh/cap.....	2,048.7	76
3.2.2	Electricity consumption, kWh/cap.....	1,402.0	84
3.2.3	Quality of trade & transport infrastructure*.....	27.3	111
3.2.4	Gross capital formation, % GDP.....	28.4	23 ●
3.3	Ecological sustainability	21.7	103
3.3.1	GDP/unit of energy use, 2000 PPP\$/kg oil eq.....	3.7	92
3.3.2	Environmental performance*.....	46.3	96
3.3.3	ISO 14001 environmental certificates/bn PPP\$ GDP.....	0.2	114
4	Market sophistication	47.8	34
4.1	Credit	48.5	28
4.1.1	Ease of getting credit*.....	87.6	8 ●
4.1.2	Domestic credit to private sector, % GDP.....	15.1	130
4.1.3	Microfinance gross loans, % GDP.....	4.6	9 ●

4.2	Investment.....	22.8	75
4.2.1	Ease of protecting investors*.....	90.6	12 ●
4.2.2	Market capitalization, % GDP.....	1.7	102 ○
4.2.3	Total value of stocks traded, % GDP.....	0.2	93
4.2.4	Venture capital deals/tr PPP\$ GDP.....	0.0	65 ○
4.3	Trade & competition	72.2	19 ●
4.3.1	Applied tariff rate, weighted mean, %.....	2.3	46
4.3.2	Non-agricultural mkt access weighted tariff, %.....	0.4	52
4.3.3	Imports of goods & services, % GDP.....	89.2	6 ●
4.3.4	Exports of goods & services, % GDP.....	57.7	27
4.3.5	Intensity of local competition†.....	48.6	122
5	Business sophistication	26.9	131
5.1	Knowledge workers.....	40.1	90
5.1.1	Knowledge-intensive employment, %.....	18.3	77
5.1.2	Firms offering formal training, % firms.....	29.7	66
5.1.3	R&D performed by business, %.....	23.3	61
5.1.4	R&D financed by business, %	36.4	44
5.1.5	GMAT mean score.....	532.4	50
5.1.6	GMAT test takers/mn pop. 20–34.....	41.4	91
5.2	Innovation linkages	15.0	138 ○
5.2.1	University/industry research collaboration†.....	16.1	132 ○
5.2.2	State of cluster development†.....	21.4	129 ○
5.2.3	R&D financed by abroad, %.....	0.7	85
5.2.4	JV–strategic alliance deals/tr PPP\$ GDP.....	45.6	30
5.2.5	PCT patent filings with foreign inventor, %.....	n/a	n/a
5.3	Knowledge absorption	25.6	124
5.3.1	Royalty & license fees payments/th GDP.....	0.6	86
5.3.2	High-tech imports less re-imports, %	4.7	110
5.3.3	Computer & comm. service imports, %.....	19.2	103
5.3.4	FDI net inflows, % GDP.....	9.5	14 ●
6	Knowledge & technology outputs	17.6	119
6.1	Knowledge creation.....	25.6	62
6.1.1	Domestic resident patent ap/bn PPP\$ GDP.....	11.5	16 ●
6.1.2	PCT resident patent ap/bn PPP\$ GDP.....	0.1	79
6.1.3	Domestic res utility model ap/bn PPP\$ GDP.....	1.0	32
6.1.4	Scientific & technical articles/bn PPP\$ GDP.....	1.3	102
6.2	Knowledge impact	4.9	139 ○
6.2.1	Growth rate of PPP\$ GDP/worker, %.....	–5.1	117 ○
6.2.2	New businesses/th pop. 15–64.....	1.3	55
6.2.3	Computer software spending, % GDP.....	n/a	n/a
6.2.4	ISO 9001 quality certificates/bn PPP\$ GDP.....	0.6	123
6.3	Knowledge diffusion	22.3	89
6.3.1	Royalty & license fees receipts/th GDP.....	0.2	55
6.3.2	High-tech exports less re-exports, %.....	0.2	99
6.3.3	Computer & comm. service exports, %	28.4	64
6.3.4	FDI net outflows, % GDP.....	0.0	102
7	Creative outputs	17.0	130
7.1	Creative intangibles.....	19.0	132 ○
7.1.1	Domestic res trademark reg/bn PPP\$ GDP.....	26.3	56
7.1.2	Madrid resident trademark reg/bn PPP\$ GDP.....	0.1	53
7.1.3	ICT & business model creation†.....	37.1	120
7.1.4	ICT & organizational model creation†.....	24.6	128 ○
7.2	Creative goods & services	20.6	72
7.2.1	Recreation & culture consumption, %.....	0.8	95 ○
7.2.2	National feature films/mn pop. 15–69.....	0.3	90
7.2.3	Paid-for dailies, circulation/th pop. 15–69.....	18.6	104
7.2.4	Creative goods exports, %.....	0.2	111
7.2.5	Creative services exports, %.....	21.7	3 ●
7.3	Online creativity.....	9.4	112
7.3.1	Generic top-level domains (TLDs)/th pop. 15–69.....	0.4	111
7.3.2	Country-code TLDs/th pop. 15–69.....	12.9	88
7.3.3	Wikipedia monthly edits/mn pop. 15–69.....	117.0	103
7.3.4	Video uploads on YouTube/pop. 15–69.....	23.8	116

Key indicators

Population (millions)	6.6
GDP per capita, PPP\$	2,659.2
GDP (US\$ billions)	7.9

	Score (0–100) or value (hard data)	Rank
Global Innovation Index 2012 (out of 141).....	20.2	138 ○
Innovation Output Sub-Index	13.1	139 ○
Innovation Input Sub-Index	27.3	129
Innovation Efficiency Index	0.5	135
Global Innovation Index 2011 (out of 125)	n/a	
GII 2012 rank among GII 2011 economies (125)	n/a	

1	Institutions.....	29.6	138 ○
1.1	Political environment	36.4	126
1.1.1	Political stability*.....	59.9	84
1.1.2	Government effectiveness*.....	16.2	130
1.1.3	Press freedom*.....	33.1	131
1.2	Regulatory environment.....	23.6	137 ○
1.2.1	Regulatory quality*.....	25.6	130
1.2.2	Rule of law*.....	24.0	118
1.2.3	Cost of redundancy dismissal, salary weeks.....	47.2	133 ○
1.3	Business environment	28.7	112
1.3.1	Ease of starting a business*.....	50.3	70 ●
1.3.2	Ease of resolving insolvency*.....	0.0	139 ○
1.3.3	Ease of paying taxes*.....	35.9	90
2	Human capital & research.....	12.6	140 ○
2.1	Education.....	24.2	134
2.1.1	Current expenditure on education, % GNI	1.1	136 ○
2.1.2	Public expenditure/pupil, % GDP/cap.....	9.1	111
2.1.3	School life expectancy, years.....	9.6	119
2.1.4	PISA scales in reading, maths, & science.....	n/a	n/a
2.1.5	Pupil-teacher ratio, secondary	22.8	104
2.2	Tertiary education	13.5	118
2.2.1	Tertiary enrolment, % gross.....	13.4	97
2.2.2	Graduates in science & engineering, %	12.8	87
2.2.3	Tertiary inbound mobility, %.....	0.0	90 ○
2.2.4	Gross tertiary outbound enrolment, %	0.5	93
2.3	Research & development (R&D).....	0.3	138 ○
2.3.1	Researchers, headcounts/mn pop.	38.0	116 ○
2.3.2	Gross expenditure on R&D, % GDP.....	0.0	111 ○
2.3.3	Quality of scientific research institutions†.....	n/a	n/a
3	Infrastructure.....	17.4	133
3.1	Information & communication technologies (ICT).....	11.6	134
3.1.1	ICT access*.....	22.1	114
3.1.2	ICT use*	2.6	123
3.1.3	Government's online service*.....	21.6	130
3.1.4	E-participation*.....	0.0	127 ○
3.2	General infrastructure	38.9	57 ●
3.2.1	Electricity output, kWh/cap.....	n/a	n/a
3.2.2	Electricity consumption, kWh/cap	n/a	n/a
3.2.3	Quality of trade & transport infrastructure*	23.8	125
3.2.4	Gross capital formation, % GDP.....	26.1	32 ●
3.3	Ecological sustainability	1.8	131
3.3.1	GDP/unit of energy use, 2000 PPP\$/kg oil eq.....	n/a	n/a
3.3.2	Environmental performance*.....	n/a	n/a
3.3.3	ISO 14001 environmental certificates/bn PPP\$ GDP	0.3	100
4	Market sophistication	30.2	109
4.1	Credit	3.8	133
4.1.1	Ease of getting credit*	2.8	126 ○
4.1.2	Domestic credit to private sector, % GDP.....	20.4	117
4.1.3	Microfinance gross loans, % GDP	0.3	52

4.2	Investment.....	35.3	44 ●
4.2.1	Ease of protecting investors*.....	0.0	140 ○
4.2.2	Market capitalization, % GDP.....	n/a	n/a
4.2.3	Total value of stocks traded, % GDP.....	n/a	n/a
4.2.4	Venture capital deals/tr PPP\$ GDP.....	57.4	23 ●
4.3	Trade & competition	51.4	119
4.3.1	Applied tariff rate, weighted mean, %.....	13.2	132
4.3.2	Non-agricultural mkt access weighted tariff, %.....	0.4	47 ●
4.3.3	Imports of goods & services, % GDP	40.9	71 ●
4.3.4	Exports of goods & services, % GDP	36.3	74
4.3.5	Intensity of local competition†	n/a	n/a
5	Business sophistication	46.8	39 ●
5.1	Knowledge workers.....	23.1	129
5.1.1	Knowledge-intensive employment, %.....	n/a	n/a
5.1.2	Firms offering formal training, % firms.....	11.1	100
5.1.3	R&D performed by business, %.....	36.9	47
5.1.4	R&D financed by business, %	36.0	45 ●
5.1.5	GMAT mean score.....	404.0	128
5.1.6	GMAT test takers/mn pop. 20–34.....	3.1	137 ○
5.2	Innovation linkages	76.7	1 ●
5.2.1	University/industry research collaboration†	n/a	n/a
5.2.2	State of cluster development†	n/a	n/a
5.2.3	R&D financed by abroad, %.....	54.0	1 ●
5.2.4	JV–strategic alliance deals/tr PPP\$ GDP	11.5	84
5.2.5	PCT patent filings with foreign inventor, %.....	100.0	1 ●
5.3	Knowledge absorption	40.4	52 ●
5.3.1	Royalty & license fees payments/th GDP.....	n/a	n/a
5.3.2	High-tech imports less re-imports, %	n/a	n/a
5.3.3	Computer & comm. service imports, %.....	17.7	107
5.3.4	FDI net inflows, % GDP	4.8	37 ●
6	Knowledge & technology outputs	19.9	107
6.1	Knowledge creation.....	31.3	48 ●
6.1.1	Domestic resident patent ap/bn PPP\$ GDP	n/a	n/a
6.1.2	PCT resident patent ap/bn PPP\$ GDP	0.3	52 ●
6.1.3	Domestic res utility model ap/bn PPP\$ GDP.....	n/a	n/a
6.1.4	Scientific & technical articles/bn PPP\$ GDP.....	0.8	119
6.2	Knowledge impact	9.5	133
6.2.1	Growth rate of PPP\$ GDP/worker, %	n/a	n/a
6.2.2	New businesses/th pop. 15–64.....	n/a	n/a
6.2.3	Computer software spending, % GDP.....	n/a	n/a
6.2.4	ISO 9001 quality certificates/bn PPP\$ GDP	0.6	124
6.3	Knowledge diffusion	18.8	107
6.3.1	Royalty & license fees receipts/th GDP.....	n/a	n/a
6.3.2	High-tech exports less re-exports, %.....	n/a	n/a
6.3.3	Computer & comm. service exports, %	16.1	102
6.3.4	FDI net outflows, % GDP	n/a	n/a
7	Creative outputs	6.3	139 ○
7.1	Creative intangibles.....	n/a	n/a
7.1.1	Domestic res trademark reg/bn PPP\$ GDP.....	n/a	n/a
7.1.2	Madrid resident trademark reg/bn PPP\$ GDP.....	n/a	n/a
7.1.3	ICT & business model creation†	n/a	n/a
7.1.4	ICT & organizational model creation†	n/a	n/a
7.2	Creative goods & services	1.7	134
7.2.1	Recreation & culture consumption, %	n/a	n/a
7.2.2	National feature films/mn pop. 15–69.....	0.5	82
7.2.3	Paid-for dailies, circulation/th pop. 15–69.....	2.6	130
7.2.4	Creative goods exports, %.....	n/a	n/a
7.2.5	Creative services exports, %.....	n/a	n/a
7.3	Online creativity.....	10.9	107
7.3.1	Generic top-level domains (TLDs)/th pop. 15–69.....	0.7	104
7.3.2	Country-code TLDs/th pop. 15–69.....	16.0	81
7.3.3	Wikipedia monthly edits/mn pop. 15–69.....	42.4	108
7.3.4	Video uploads on YouTube/pop. 15–69	26.7	113

Key indicators

Population (millions)	2.2
GDP per capita, PPP\$	15,448.1
GDP (US\$ billions)	27.4

	Score (0–100) or value (hard data)	Rank
Global Innovation Index 2012 (out of 141).....	47.0	30
Innovation Output Sub-Index	42.6	27
Innovation Input Sub-Index	51.4	36
Innovation Efficiency Index	0.8	33
Global Innovation Index 2011 (out of 125)	36	36
GII 2012 rank among GII 2011 economies (125)	29	29

1	Institutions.....	72.8	30
1.1	Political environment	73.1	39
1.1.1	Political stability*.....	76.8	44
1.1.2	Government effectiveness*.....	59.3	40
1.1.3	Press freedom*.....	83.1	44
1.2	Regulatory environment.....	84.8	24
1.2.1	Regulatory quality*.....	76.5	31
1.2.2	Rule of law*.....	69.4	34
1.2.3	Cost of redundancy dismissal, salary weeks.....	9.7	33
1.3	Business environment	60.6	41
1.3.1	Ease of starting a business*.....	71.2	41
1.3.2	Ease of resolving insolvency*.....	45.3	77
1.3.3	Ease of paying taxes*.....	65.4	49
2	Human capital & research.....	42.0	50
2.1	Education.....	65.3	16 ●
2.1.1	Current expenditure on education, % GNI	5.6	27
2.1.2	Public expenditure/pupil, % GDP/cap.....	27.0	16 ●
2.1.3	School life expectancy, years.....	14.8	37
2.1.4	PISA scales in reading, maths, & science.....	486.6	30
2.1.5	Pupil-teacher ratio, secondary	9.0	18 ●
2.2	Tertiary education	32.7	70
2.2.1	Tertiary enrolment, % gross.....	60.1	33
2.2.2	Graduates in science & engineering, %	14.3	82 ○
2.2.3	Tertiary inbound mobility, %.....	1.6	61
2.2.4	Gross tertiary outbound enrolment, %	2.3	40
2.3	Research & development (R&D).....	27.9	49
2.3.1	Researchers, headcounts/mn pop.	3,278.9	30
2.3.2	Gross expenditure on R&D, % GDP.....	0.5	60
2.3.3	Quality of scientific research institutions†	48.9	53
3	Infrastructure.....	44.7	38
3.1	Information & communication technologies (ICT).....	45.7	48
3.1.1	ICT access*.....	60.3	45
3.1.2	ICT use*.....	42.6	34
3.1.3	Government's online service*.....	58.8	45
3.1.4	E-participation*.....	21.1	63
3.2	General infrastructure	34.2	83
3.2.1	Electricity output, kWh/cap.....	2,463.1	67
3.2.2	Electricity consumption, kWh/cap.....	2,874.5	58
3.2.3	Quality of trade & transport infrastructure*.....	47.0	48
3.2.4	Gross capital formation, % GDP.....	20.7	85
3.3	Ecological sustainability	54.3	14 ●
3.3.1	GDP/unit of energy use, 2000 PPP\$/kg oil eq.....	6.4	47
3.3.2	Environmental performance*.....	70.4	2 ●
3.3.3	ISO 14001 environmental certificates/bn PPP\$ GDP.....	7.3	13 ●
4	Market sophistication	55.1	22
4.1	Credit	66.0	10 ●
4.1.1	Ease of getting credit*.....	97.1	4 ●
4.1.2	Domestic credit to private sector, % GDP.....	103.7	29
4.1.3	Microfinance gross loans, % GDP.....	n/a	n/a

4.2	Investment.....	32.7	48
4.2.1	Ease of protecting investors*.....	58.2	48
4.2.2	Market capitalization, % GDP.....	5.2	98 ○
4.2.3	Total value of stocks traded, % GDP.....	0.1	97 ○
4.2.4	Venture capital deals/tr PPP\$ GDP.....	57.8	22
4.3	Trade & competition	66.5	55
4.3.1	Applied tariff rate, weighted mean, %.....	1.6	11
4.3.2	Non-agricultural mkt access weighted tariff, %.....	2.0	92 ○
4.3.3	Imports of goods & services, % GDP.....	54.2	42
4.3.4	Exports of goods & services, % GDP.....	53.4	38
4.3.5	Intensity of local competition†	61.5	77
5	Business sophistication	42.2	53
5.1	Knowledge workers.....	62.1	36
5.1.1	Knowledge-intensive employment, %.....	40.2	19
5.1.2	Firms offering formal training, % firms.....	43.4	41
5.1.3	R&D performed by business, %.....	36.4	48
5.1.4	R&D financed by business, %	36.9	43
5.1.5	GMAT mean score.....	581.4	11 ●
5.1.6	GMAT test takers/mn pop. 20–34.....	153.0	39
5.2	Innovation linkages	33.3	83
5.2.1	University/industry research collaboration†	46.2	54
5.2.2	State of cluster development†	36.7	89 ○
5.2.3	R&D financed by abroad, %.....	15.4	18
5.2.4	JV–strategic alliance deals/tr PPP\$ GDP	34.7	42
5.2.5	PCT patent filings with foreign inventor, %.....	20.0	77 ○
5.3	Knowledge absorption	31.3	91
5.3.1	Royalty & license fees payments/th GDP.....	1.4	61
5.3.2	High-tech imports less re-imports, %	7.2	81 ○
5.3.3	Computer & comm. service imports, %.....	34.3	61
5.3.4	FDI net inflows, % GDP.....	1.5	92 ○
6	Knowledge & technology outputs	37.8	37
6.1	Knowledge creation.....	35.8	38
6.1.1	Domestic resident patent ap/bn PPP\$ GDP	6.5	30
6.1.2	PCT resident patent ap/bn PPP\$ GDP	0.5	39
6.1.3	Domestic res utility model ap/bn PPP\$ GDP.....	n/a	n/a
6.1.4	Scientific & technical articles/bn PPP\$ GDP.....	5.0	57
6.2	Knowledge impact	53.1	15 ●
6.2.1	Growth rate of PPP\$ GDP/worker, %.....	4.9	21
6.2.2	New businesses/th pop. 15–64.....	4.6	19
6.2.3	Computer software spending, % GDP.....	n/a	n/a
6.2.4	ISO 9001 quality certificates/bn PPP\$ GDP	24.8	20 ●
6.3	Knowledge diffusion	24.5	75
6.3.1	Royalty & license fees receipts/th GDP.....	0.5	45
6.3.2	High-tech exports less re-exports, %.....	5.2	41
6.3.3	Computer & comm. service exports, %	22.9	82
6.3.4	FDI net outflows, % GDP	0.1	86 ○
7	Creative outputs	47.4	21
7.1	Creative intangibles.....	51.5	23
7.1.1	Domestic res trademark reg/bn PPP\$ GDP.....	65.0	26
7.1.2	Madrid resident trademark reg/bn PPP\$ GDP.....	4.0	3 ●
7.1.3	ICT & business model creation†	50.7	72
7.1.4	ICT & organizational model creation†	40.1	99 ○
7.2	Creative goods & services	38.3	24
7.2.1	Recreation & culture consumption, %.....	8.1	23
7.2.2	National feature films/mn pop. 15–69.....	7.2	13 ●
7.2.3	Paid-for dailies, circulation/th pop. 15–69.....	131.7	46
7.2.4	Creative goods exports, %.....	2.7	31
7.2.5	Creative services exports, %.....	7.3	27
7.3	Online creativity.....	48.1	27
7.3.1	Generic top-level domains (TLDs)/th pop. 15–69.....	20.3	35
7.3.2	Country-code TLDs/th pop. 15–69.....	56.8	25
7.3.3	Wikipedia monthly edits/mn pop. 15–69.....	7,238.2	21
7.3.4	Video uploads on YouTube/pop. 15–69.....	78.3	7 ●

Key indicators

Population (millions)	4.0
GDP per capita, PPP\$	15,597.0
GDP (US\$ billions)	41.5

	Score (0–100) or value (hard data)	Rank
Global Innovation Index 2012 (out of 141).....	36.2	61
Innovation Output Sub-Index	30.6	63
Innovation Input Sub-Index	41.8	62
Innovation Efficiency Index	0.7	73
Global Innovation Index 2011 (out of 125)	49	
GII 2012 rank among GII 2011 economies (125)	59	
1 Institutions.....	53.9	75
1.1 Political environment	44.1	106
1.1.1 Political stability*.....	28.4	131 ○
1.1.2 Government effectiveness*.....	31.9	86
1.1.3 Press freedom*.....	72.0	72
1.2 Regulatory environment.....	70.1	56
1.2.1 Regulatory quality*.....	52.7	72
1.2.2 Rule of law*.....	30.2	104
1.2.3 Cost of redundancy dismissal, salary weeks.....	8.7	23
1.3 Business environment	47.4	73
1.3.1 Ease of starting a business*.....	39.5	85
1.3.2 Ease of resolving insolvency*.....	19.4	113
1.3.3 Ease of paying taxes*.....	83.4	24
2 Human capital & research.....	39.4	57
2.1 Education.....	40.8	104
2.1.1 Current expenditure on education, % GNI	1.6	132 ○
2.1.2 Public expenditure/pupil, % GDP/cap.....	6.2	116 ○
2.1.3 School life expectancy, years.....	13.9	51
2.1.4 PISA scales in reading, maths, & science.....	n/a	n/a
2.1.5 Pupil-teacher ratio, secondary	8.9	16 ●
2.2 Tertiary education	53.9	15 ●
2.2.1 Tertiary enrolment, % gross.....	54.0	40
2.2.2 Graduates in science & engineering, %	25.0	25
2.2.3 Tertiary inbound mobility, %.....	15.0	11 ●
2.2.4 Gross tertiary outbound enrolment, %	3.4	27
2.3 Research & development (R&D).....	23.6	62
2.3.1 Researchers, headcounts/mn pop.	n/a	n/a
2.3.2 Gross expenditure on R&D, % GDP.....	n/a	n/a
2.3.3 Quality of scientific research institutions†.....	23.6	121 ○
3 Infrastructure.....	33.5	72
3.1 Information & communication technologies (ICT).....	32.8	72
3.1.1 ICT access*.....	38.9	79
3.1.2 ICT use*	12.9	82
3.1.3 Government's online service*.....	47.7	75
3.1.4 E-participation*.....	31.6	47
3.2 General infrastructure	45.1	34
3.2.1 Electricity output, kWh/cap.....	3,570.4	56
3.2.2 Electricity consumption, kWh/cap.....	3,110.1	57
3.2.3 Quality of trade & transport infrastructure*.....	51.3	40
3.2.4 Gross capital formation, % GDP.....	32.7	16 ●
3.3 Ecological sustainability	22.6	100
3.3.1 GDP/unit of energy use, 2000 PPP\$/kg oil eq.....	3.9	89
3.3.2 Environmental performance*.....	47.4	90
3.3.3 ISO 14001 environmental certificates/bn PPP\$ GDP.....	0.2	110
4 Market sophistication	34.0	90
4.1 Credit	22.3	88
4.1.1 Ease of getting credit*	38.7	72
4.1.2 Domestic credit to private sector, % GDP.....	81.3	42
4.1.3 Microfinance gross loans, % GDP.....	0.1	67

4.2 Investment.....	12.6	108
4.2.1 Ease of protecting investors*.....	35.9	76
4.2.2 Market capitalization, % GDP.....	32.1	59
4.2.3 Total value of stocks traded, % GDP.....	4.8	56
4.2.4 Venture capital deals/tr PPP\$ GDP.....	0.0	65 ○
4.3 Trade & competition	67.2	45
4.3.1 Applied tariff rate, weighted mean, %.....	4.8	77
4.3.2 Non-agricultural mkt access weighted tariff, %.....	0.0	1 ●
4.3.3 Imports of goods & services, % GDP.....	43.8	60
4.3.4 Exports of goods & services, % GDP.....	20.9	124 ○
4.3.5 Intensity of local competition†	73.9	26
5 Business sophistication	48.3	33
5.1 Knowledge workers.....	64.8	33
5.1.1 Knowledge-intensive employment, %.....	31.9	38
5.1.2 Firms offering formal training, % firms.....	52.4	23
5.1.3 R&D performed by business, %.....	n/a	n/a
5.1.4 R&D financed by business, %	n/a	n/a
5.1.5 GMAT mean score.....	484.7	83
5.1.6 GMAT test takers/mn pop. 20–34.....	1,178.6	4 ●
5.2 Innovation linkages	41.9	47
5.2.1 University/industry research collaboration†	35.3	107
5.2.2 State of cluster development†	32.4	108
5.2.3 R&D financed by abroad, %.....	n/a	n/a
5.2.4 JV–strategic alliance deals/tr PPP\$ GDP	26.7	53
5.2.5 PCT patent filings with foreign inventor, %.....	100.0	1 ●
5.3 Knowledge absorption	38.2	59
5.3.1 Royalty & license fees payments/th GDP.....	0.3	99 ○
5.3.2 High-tech imports less re-imports, %	4.0	117 ○
5.3.3 Computer & comm. service imports, %.....	55.9	10 ●
5.3.4 FDI net inflows, % GDP.....	12.7	11 ●
6 Knowledge & technology outputs	33.9	48
6.1 Knowledge creation.....	15.2	95
6.1.1 Domestic resident patent ap/bn PPP\$ GDP	n/a	n/a
6.1.2 PCT resident patent ap/bn PPP\$ GDP	n/a	n/a
6.1.3 Domestic res utility model ap/bn PPP\$ GDP.....	n/a	n/a
6.1.4 Scientific & technical articles/bn PPP\$ GDP.....	4.7	59
6.2 Knowledge impact	45.5	29
6.2.1 Growth rate of PPP\$ GDP/worker, %.....	n/a	n/a
6.2.2 New businesses/th pop. 15–64.....	n/a	n/a
6.2.3 Computer software spending, % GDP.....	n/a	n/a
6.2.4 ISO 9001 quality certificates/bn PPP\$ GDP	6.4	60
6.3 Knowledge diffusion	40.9	31
6.3.1 Royalty & license fees receipts/th GDP.....	0.2	61
6.3.2 High-tech exports less re-exports, %.....	14.2	22
6.3.3 Computer & comm. service exports, %	55.5	18 ●
6.3.4 FDI net outflows, % GDP	1.5	31
7 Creative outputs	27.3	93
7.1 Creative intangibles.....	27.0	122 ○
7.1.1 Domestic res trademark reg/bn PPP\$ GDP.....	n/a	n/a
7.1.2 Madrid resident trademark reg/bn PPP\$ GDP.....	n/a	n/a
7.1.3 ICT & business model creation†	34.6	124 ○
7.1.4 ICT & organizational model creation†	19.3	132 ○
7.2 Creative goods & services	38.4	23
7.2.1 Recreation & culture consumption, %.....	n/a	n/a
7.2.2 National feature films/mn pop. 15–69.....	2.7	39
7.2.3 Paid-for dailies, circulation/th pop. 15–69.....	88.3	60
7.2.4 Creative goods exports, %.....	5.4	10 ●
7.2.5 Creative services exports, %.....	7.2	28
7.3 Online creativity.....	17.1	86
7.3.1 Generic top-level domains (TLDs)/th pop. 15–69.....	6.5	54
7.3.2 Country-code TLDs/th pop. 15–69.....	9.7	99
7.3.3 Wikipedia monthly edits/mn pop. 15–69.....	335.9	87
7.3.4 Video uploads on YouTube/pop. 15–69.....	50.2	76

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Key indicators

Population (millions)	2.6
GDP per capita, PPP\$	1,425.1
GDP (US\$ billions)	2.7

	Score (0–100) or value (hard data)	Rank
Global Innovation Index 2012 (out of 141).....	25.7	116
Innovation Output Sub-Index	16.5	133 ○
Innovation Input Sub-Index	34.8	92
Innovation Efficiency Index	0.5	137 ○
Global Innovation Index 2011 (out of 125)	n/a	
GII 2012 rank among GII 2011 economies (125)	n/a	

1	Institutions.....	57.0	65
1.1	Political environment	62.4	58
1.1.1	Political stability*.....	76.8	43 ●
1.1.2	Government effectiveness*.....	31.3	88
1.1.3	Press freedom*.....	79.1	53 ●
1.2	Regulatory environment.....	62.0	82
1.2.1	Regulatory quality*.....	36.0	117
1.2.2	Rule of law*.....	39.8	73
1.2.3	Cost of redundancy dismissal, salary weeks.....	15.0	68
1.3	Business environment	46.7	77
1.3.1	Ease of starting a business*.....	17.9	115
1.3.2	Ease of resolving insolvency*.....	54.6	64
1.3.3	Ease of paying taxes*.....	67.6	46 ●
2	Human capital & research.....	30.2	90
2.1	Education.....	75.1	3 ●
2.1.1	Current expenditure on education, % GNI	9.4	1 ●
2.1.2	Public expenditure/pupil, % GDP/cap.....	50.7	1 ●
2.1.3	School life expectancy, years.....	9.6	118
2.1.4	PISA scales in reading, maths, & science.....	n/a	n/a
2.1.5	Pupil-teacher ratio, secondary	18.0	87
2.2	Tertiary education	7.9	129
2.2.1	Tertiary enrolment, % gross.....	3.5	128 ○
2.2.2	Graduates in science & engineering, %	3.6	103 ○
2.2.3	Tertiary inbound mobility, %.....	0.6	84
2.2.4	Gross tertiary outbound enrolment, %	1.7	53 ●
2.3	Research & development (R&D).....	7.6	132 ○
2.3.1	Researchers, headcounts/mn pop.	106.6	99
2.3.2	Gross expenditure on R&D, % GDP.....	0.0	112 ○
2.3.3	Quality of scientific research institutions†.....	21.8	124
3	Infrastructure.....	29.8	84
3.1	Information & communication technologies (ICT).....	12.0	131
3.1.1	ICT access*.....	14.0	139 ○
3.1.2	ICT use*.....	1.2	133 ○
3.1.3	Government's online service*.....	30.1	116
3.1.4	E-participation*.....	2.6	115
3.2	General infrastructure	47.7	27 ●
3.2.1	Electricity output, kWh/cap.....	n/a	n/a
3.2.2	Electricity consumption, kWh/cap.....	n/a	n/a
3.2.3	Quality of trade & transport infrastructure*.....	25.0	119
3.2.4	Gross capital formation, % GDP.....	33.7	11 ●
3.3	Ecological sustainability	n/a	n/a
3.3.1	GDP/unit of energy use, 2000 PPP\$/kg oil eq.....	n/a	n/a
3.3.2	Environmental performance*.....	n/a	n/a
3.3.3	ISO 14001 environmental certificates/bn PPP\$ GDP.....	n/a	n/a
4	Market sophistication	27.1	121
4.1	Credit	8.8	123
4.1.1	Ease of getting credit*.....	15.3	112
4.1.2	Domestic credit to private sector, % GDP.....	13.6	132 ○
4.1.3	Microfinance gross loans, % GDP.....	n/a	n/a

4.2	Investment.....	6.5	119
4.2.1	Ease of protecting investors*.....	12.9	119
4.2.2	Market capitalization, % GDP.....	n/a	n/a
4.2.3	Total value of stocks traded, % GDP.....	n/a	n/a
4.2.4	Venture capital deals/tr PPP\$ GDP.....	0.0	65 ○
4.3	Trade & competition	65.9	59
4.3.1	Applied tariff rate, weighted mean, %.....	10.5	126
4.3.2	Non-agricultural mkt access weighted tariff, %.....	0.0	15 ●
4.3.3	Imports of goods & services, % GDP.....	113.8	5 ●
4.3.4	Exports of goods & services, % GDP.....	49.2	46 ●
4.3.5	Intensity of local competition†.....	53.4	104
5	Business sophistication	30.1	121
5.1	Knowledge workers.....	36.3	101
5.1.1	Knowledge-intensive employment, %.....	n/a	n/a
5.1.2	Firms offering formal training, % firms.....	42.5	42
5.1.3	R&D performed by business, %.....	n/a	n/a
5.1.4	R&D financed by business, %	3.4	79
5.1.5	GMAT mean score.....	483.0	86
5.1.6	GMAT test takers/mn pop. 20–34.....	9.7	125
5.2	Innovation linkages	25.7	120
5.2.1	University/industry research collaboration†.....	30.0	116
5.2.2	State of cluster development†.....	34.3	99
5.2.3	R&D financed by abroad, %.....	n/a	n/a
5.2.4	JV–strategic alliance deals/tr PPP\$ GDP.....	0.0	114 ○
5.2.5	PCT patent filings with foreign inventor, %.....	n/a	n/a
5.3	Knowledge absorption	28.2	101
5.3.1	Royalty & license fees payments/th GDP.....	1.5	59
5.3.2	High-tech imports less re-imports, %.....	n/a	n/a
5.3.3	Computer & comm. service imports, %.....	10.9	124
5.3.4	FDI net inflows, % GDP.....	5.5	33 ●
6	Knowledge & technology outputs	14.7	132
6.1	Knowledge creation.....	3.3	126
6.1.1	Domestic resident patent ap/bn PPP\$ GDP.....	n/a	n/a
6.1.2	PCT resident patent ap/bn PPP\$ GDP.....	n/a	n/a
6.1.3	Domestic res utility model ap/bn PPP\$ GDP.....	n/a	n/a
6.1.4	Scientific & technical articles/bn PPP\$ GDP.....	1.1	111
6.2	Knowledge impact	4.9	138 ○
6.2.1	Growth rate of PPP\$ GDP/worker, %.....	n/a	n/a
6.2.2	New businesses/th pop. 15–64.....	n/a	n/a
6.2.3	Computer software spending, % GDP.....	n/a	n/a
6.2.4	ISO 9001 quality certificates/bn PPP\$ GDP.....	0.3	130
6.3	Knowledge diffusion	36.0	38 ●
6.3.1	Royalty & license fees receipts/th GDP.....	n/a	n/a
6.3.2	High-tech exports less re-exports, %.....	n/a	n/a
6.3.3	Computer & comm. service exports, %	17.7	97
6.3.4	FDI net outflows, % GDP.....	-0.1	106
7	Creative outputs	18.4	126
7.1	Creative intangibles.....	31.2	108
7.1.1	Domestic res trademark reg/bn PPP\$ GDP.....	n/a	n/a
7.1.2	Madrid resident trademark reg/bn PPP\$ GDP.....	n/a	n/a
7.1.3	ICT & business model creation†.....	32.5	126 ○
7.1.4	ICT & organizational model creation†.....	30.0	122
7.2	Creative goods & services	0.1	141 ○
7.2.1	Recreation & culture consumption, %.....	n/a	n/a
7.2.2	National feature films/mn pop. 15–69.....	n/a	n/a
7.2.3	Paid-for dailies, circulation/th pop. 15–69.....	n/a	n/a
7.2.4	Creative goods exports, %.....	n/a	n/a
7.2.5	Creative services exports, %.....	0.0	108 ○
7.3	Online creativity.....	10.9	108
7.3.1	Generic top-level domains (TLDs)/th pop. 15–69.....	0.2	126
7.3.2	Country-code TLDs/th pop. 15–69.....	5.3	106
7.3.3	Wikipedia monthly edits/mn pop. 15–69.....	n/a	n/a
7.3.4	Video uploads on YouTube/pop. 15–69.....	27.2	112

Key indicators

Population (millions)	3.3
GDP per capita, PPP\$	18,769.5
GDP (US\$ billions)	43.2

	Score (0–100) or value (hard data)	Rank
Global Innovation Index 2012 (out of 141).....	44.0	38
Innovation Output Sub-Index	37.8	37
Innovation Input Sub-Index	50.2	38
Innovation Efficiency Index	0.8	62
Global Innovation Index 2011 (out of 125)	40	
GII 2012 rank among GII 2011 economies (125)	37	

1	Institutions.....	70.0	37
1.1	Political environment	77.3	31
1.1.1	Political stability*.....	81.4	34
1.1.2	Government effectiveness*.....	60.0	38
1.1.3	Press freedom*.....	90.5	27
1.2	Regulatory environment.....	69.7	58
1.2.1	Regulatory quality*.....	76.5	32
1.2.2	Rule of law*.....	67.9	37
1.2.3	Cost of redundancy dismissal, salary weeks	24.6	109 ○
1.3	Business environment	63.0	38
1.3.1	Ease of starting a business*.....	48.9	71
1.3.2	Ease of resolving insolvency*.....	75.5	35
1.3.3	Ease of paying taxes*.....	64.7	50
2	Human capital & research.....	46.3	37
2.1	Education.....	60.3	37
2.1.1	Current expenditure on education, % GNI	4.4	59
2.1.2	Public expenditure/pupil, % GDP/cap.....	20.2	58
2.1.3	School life expectancy, years.....	15.9	20 ●
2.1.4	PISA scales in reading, maths, & science	478.8	34
2.1.5	Pupil-teacher ratio, secondary	8.9	17 ●
2.2	Tertiary education	43.3	42
2.2.1	Tertiary enrolment, % gross.....	77.4	10 ●
2.2.2	Graduates in science & engineering, %	21.0	48
2.2.3	Tertiary inbound mobility, %.....	1.3	70
2.2.4	Gross tertiary outbound enrolment, %	2.9	29
2.3	Research & development (R&D).....	35.3	35
2.3.1	Researchers, headcounts/mn pop.	4,023.5	25
2.3.2	Gross expenditure on R&D, % GDP.....	0.8	39
2.3.3	Quality of scientific research institutions†	56.6	35
3	Infrastructure.....	50.5	26
3.1	Information & communication technologies (ICT).....	56.8	28
3.1.1	ICT access*.....	64.8	37
3.1.2	ICT use*	39.7	39
3.1.3	Government's online service*.....	69.9	29
3.1.4	E-participation*.....	52.6	30
3.2	General infrastructure	31.9	93
3.2.1	Electricity output, kWh/cap.....	4,384.1	48
3.2.2	Electricity consumption, kWh/cap	3,430.2	52
3.2.3	Quality of trade & transport infrastructure*	43.0	53
3.2.4	Gross capital formation, % GDP.....	16.8	120 ○
3.3	Ecological sustainability	62.8	6 ●
3.3.1	GDP/unit of energy use, 2000 PPP\$/kg oil eq.....	5.5	65
3.3.2	Environmental performance*.....	65.5	17 ●
3.3.3	ISO 14001 environmental certificates/bn PPP\$ GDP	12.1	6 ●
4	Market sophistication	46.8	38
4.1	Credit	39.5	45
4.1.1	Ease of getting credit*	57.7	43
4.1.2	Domestic credit to private sector, % GDP	66.4	52
4.1.3	Microfinance gross loans, % GDP	n/a	n/a

4.2	Investment.....	29.6	55
4.2.1	Ease of protecting investors*.....	35.9	76
4.2.2	Market capitalization, % GDP.....	15.6	87 ○
4.2.3	Total value of stocks traded, % GDP	0.8	73
4.2.4	Venture capital deals/tr PPP\$ GDP.....	81.4	16 ●
4.3	Trade & competition	71.3	22
4.3.1	Applied tariff rate, weighted mean, %.....	1.6	11
4.3.2	Non-agricultural mkt access weighted tariff, %.....	2.0	92 ○
4.3.3	Imports of goods & services, % GDP	69.6	22
4.3.4	Exports of goods & services, % GDP	68.2	19 ●
4.3.5	Intensity of local competition†	65.8	62
5	Business sophistication	37.5	76
5.1	Knowledge workers.....	57.3	38
5.1.1	Knowledge-intensive employment, %.....	39.6	20
5.1.2	Firms offering formal training, % firms.....	46.0	37
5.1.3	R&D performed by business, %.....	23.7	60
5.1.4	R&D financed by business, %	21.0	61
5.1.5	GMAT mean score.....	560.0	30
5.1.6	GMAT test takers/mn pop. 20–34.....	143.9	40
5.2	Innovation linkages	31.4	92
5.2.1	University/industry research collaboration†	57.3	30
5.2.2	State of cluster development†	31.2	112 ○
5.2.3	R&D financed by abroad, %.....	13.1	23
5.2.4	JV–strategic alliance deals/tr PPP\$ GDP	6.5	99
5.2.5	PCT patent filings with foreign inventor, %.....	20.0	77 ○
5.3	Knowledge absorption	23.7	130 ○
5.3.1	Royalty & license fees payments/th GDP.....	1.0	75
5.3.2	High-tech imports less re-imports, %	5.0	103 ○
5.3.3	Computer & comm. service imports, %.....	19.7	100 ○
5.3.4	FDI net inflows, % GDP	1.7	86
6	Knowledge & technology outputs	35.3	42
6.1	Knowledge creation.....	31.6	46
6.1.1	Domestic resident patent ap/bn PPP\$ GDP	2.1	53
6.1.2	PCT resident patent ap/bn PPP\$ GDP	0.4	43
6.1.3	Domestic res utility model ap/bn PPP\$ GDP.....	n/a	n/a
6.1.4	Scientific & technical articles/bn PPP\$ GDP.....	7.0	46
6.2	Knowledge impact	53.6	14 ●
6.2.1	Growth rate of PPP\$ GDP/worker, %	7.3	6 ●
6.2.2	New businesses/th pop. 15–64.....	2.2	43
6.2.3	Computer software spending, % GDP.....	n/a	n/a
6.2.4	ISO 9001 quality certificates/bn PPP\$ GDP	21.3	23
6.3	Knowledge diffusion	20.9	103
6.3.1	Royalty & license fees receipts/th GDP.....	0.0	83 ○
6.3.2	High-tech exports less re-exports, %.....	6.1	37
6.3.3	Computer & comm. service exports, %	14.0	107 ○
6.3.4	FDI net outflows, % GDP	0.2	69
7	Creative outputs	40.3	35
7.1	Creative intangibles.....	39.5	73
7.1.1	Domestic res trademark reg/bn PPP\$ GDP.....	44.8	39
7.1.2	Madrid resident trademark reg/bn PPP\$ GDP.....	1.1	18
7.1.3	ICT & business model creation†	65.5	22
7.1.4	ICT & organizational model creation†	47.8	68
7.2	Creative goods & services	37.9	25
7.2.1	Recreation & culture consumption, %.....	8.4	22
7.2.2	National feature films/mn pop. 15–69.....	2.5	43
7.2.3	Paid-for dailies, circulation/th pop. 15–69.....	233.5	20 ●
7.2.4	Creative goods exports, %.....	3.8	20 ●
7.2.5	Creative services exports, %.....	3.2	51
7.3	Online creativity.....	44.3	30
7.3.1	Generic top-level domains (TLDs)/th pop. 15–69.....	18.8	37
7.3.2	Country-code TLDs/th pop. 15–69.....	56.8	26
7.3.3	Wikipedia monthly edits/mn pop. 15–69.....	6,535.7	26
7.3.4	Video uploads on YouTube/pop. 15–69	68.2	30

Luxembourg

Key indicators

Population (millions)	0.5
GDP per capita, PPP\$	84,829.3
GDP (US\$ billions)	62.9

	Score (0–100) or value (hard data)	Rank
Global Innovation Index 2012 (out of 141).....	57.7	11
Innovation Output Sub-Index	52.4	10
Innovation Input Sub-Index	63.0	14
Innovation Efficiency Index	0.8	29
Global Innovation Index 2011 (out of 125)		17
GII 2012 rank among GII 2011 economies (125)		11

1	Institutions.....	83.8	19
1.1	Political environment	94.6	4 ●
1.1.1	Political stability*.....	100.0	1 ●
1.1.2	Government effectiveness*.....	85.8	13
1.1.3	Press freedom*.....	98.0	6
1.2	Regulatory environment.....	84.1	26
1.2.1	Regulatory quality*.....	94.5	10
1.2.2	Rule of law*.....	96.1	6
1.2.3	Cost of redundancy dismissal, salary weeks.....	21.7	95 ○
1.3	Business environment	72.6	26
1.3.1	Ease of starting a business*.....	55.3	62
1.3.2	Ease of resolving insolvency*.....	71.2	41
1.3.3	Ease of paying taxes*.....	91.3	13
2	Human capital & research.....	56.5	12
2.1	Education.....	53.5	62
2.1.1	Current expenditure on education, % GNI	3.5	90 ○
2.1.2	Public expenditure/pupil, % GDP/cap.....	19.7	63
2.1.3	School life expectancy, years.....	13.5	60
2.1.4	PISA scales in reading, maths, & science.....	481.7	33
2.1.5	Pupil-teacher ratio, secondary	10.2	30
2.2	Tertiary education	70.6	3 ●
2.2.1	Tertiary enrolment, % gross.....	10.5	103 ○
2.2.2	Graduates in science & engineering, %	32.5	7
2.2.3	Tertiary inbound mobility, %.....	43.8	1 ●
2.2.4	Gross tertiary outbound enrolment, %	23.2	1 ●
2.3	Research & development (R&D).....	45.3	28
2.3.1	Researchers, headcounts/mn pop.	4,747.6	17
2.3.2	Gross expenditure on R&D, % GDP.....	1.7	22
2.3.3	Quality of scientific research institutions†.....	61.6	28
3	Infrastructure.....	55.0	18
3.1	Information & communication technologies (ICT).....	67.5	19
3.1.1	ICT access*.....	88.0	3 ●
3.1.2	ICT use*.....	72.4	3 ●
3.1.3	Government's online service*.....	69.9	29
3.1.4	E-participation*.....	39.5	38
3.2	General infrastructure	58.8	11
3.2.1	Electricity output, kWh/cap.....	6,376.7	33
3.2.2	Electricity consumption, kWh/cap.....	16,879.4	4 ●
3.2.3	Quality of trade & transport infrastructure*.....	76.5	9
3.2.4	Gross capital formation, % GDP.....	18.7	106 ○
3.3	Ecological sustainability	38.7	48
3.3.1	GDP/unit of energy use, 2000 PPP\$/kg oil eq.....	7.5	32
3.3.2	Environmental performance*.....	69.2	4 ●
3.3.3	ISO 14001 environmental certificates/bn PPP\$ GDP.....	0.5	83
4	Market sophistication	55.0	23
4.1	Credit	39.9	44
4.1.1	Ease of getting credit*.....	15.3	112 ○
4.1.2	Domestic credit to private sector, % GDP.....	185.4	10
4.1.3	Microfinance gross loans, % GDP.....	n/a	n/a

4.2	Investment.....	41.8	29
4.2.1	Ease of protecting investors*.....	22.3	100 ○
4.2.2	Market capitalization, % GDP.....	183.5	4
4.2.3	Total value of stocks traded, % GDP.....	0.3	88 ○
4.2.4	Venture capital deals/tr PPP\$ GDP.....	91.6	14
4.3	Trade & competition	83.4	3 ●
4.3.1	Applied tariff rate, weighted mean, %.....	1.6	11
4.3.2	Non-agricultural mkt access weighted tariff, %.....	2.0	92 ○
4.3.3	Imports of goods & services, % GDP.....	133.8	1 ●
4.3.4	Exports of goods & services, % GDP.....	165.0	1 ●
4.3.5	Intensity of local competition†.....	70.8	39
5	Business sophistication	64.6	5
5.1	Knowledge workers.....	83.8	3 ●
5.1.1	Knowledge-intensive employment, %.....	n/a	n/a
5.1.2	Firms offering formal training, % firms.....	n/a	n/a
5.1.3	R&D performed by business, %.....	73.7	5
5.1.4	R&D financed by business, %	76.0	4
5.1.5	GMAT mean score.....	559.3	31
5.1.6	GMAT test takers/mn pop. 20–34.....	290.1	20
5.2	Innovation linkages	53.3	16
5.2.1	University/industry research collaboration†.....	67.1	17
5.2.2	State of cluster development†.....	63.9	7
5.2.3	R&D financed by abroad, %.....	5.7	58
5.2.4	JV–strategic alliance deals/tr PPP\$ GDP.....	80.8	15
5.2.5	PCT patent filings with foreign inventor, %.....	93.8	37
5.3	Knowledge absorption	56.8	9
5.3.1	Royalty & license fees payments/th GDP.....	7.4	10
5.3.2	High-tech imports less re-imports, %.....	11.0	43
5.3.3	Computer & comm. service imports, %.....	30.9	65
5.3.4	FDI net inflows, % GDP.....	288.4	1 ●
6	Knowledge & technology outputs	49.8	18
6.1	Knowledge creation.....	50.3	23
6.1.1	Domestic resident patent ap/bn PPP\$ GDP.....	12.2	14
6.1.2	PCT resident patent ap/bn PPP\$ GDP.....	5.6	9
6.1.3	Domestic res utility model ap/bn PPP\$ GDP.....	n/a	n/a
6.1.4	Scientific & technical articles/bn PPP\$ GDP.....	3.5	68
6.2	Knowledge impact	40.0	44
6.2.1	Growth rate of PPP\$ GDP/worker, %.....	2.0	74 ○
6.2.2	New businesses/th pop. 15–64.....	7.4	11
6.2.3	Computer software spending, % GDP.....	n/a	n/a
6.2.4	ISO 9001 quality certificates/bn PPP\$ GDP.....	2.6	86
6.3	Knowledge diffusion	59.2	10
6.3.1	Royalty & license fees receipts/th GDP.....	8.6	6
6.3.2	High-tech exports less re-exports, %.....	7.7	30
6.3.3	Computer & comm. service exports, %	24.0	77
6.3.4	FDI net outflows, % GDP	347.1	1 ●
7	Creative outputs	55.0	6
7.1	Creative intangibles.....	55.3	16
7.1.1	Domestic res trademark reg/bn PPP\$ GDP.....	66.9	24
7.1.2	Madrid resident trademark reg/bn PPP\$ GDP.....	n/a	n/a
7.1.3	ICT & business model creation†.....	65.0	27
7.1.4	ICT & organizational model creation†.....	69.5	11
7.2	Creative goods & services	34.1	36
7.2.1	Recreation & culture consumption, %.....	7.2	33
7.2.2	National feature films/mn pop. 15–69.....	13.6	6
7.2.3	Paid-for dailies, circulation/th pop. 15–69.....	315.1	13
7.2.4	Creative goods exports, %.....	0.6	84 ○
7.2.5	Creative services exports, %.....	2.9	52
7.3	Online creativity.....	75.0	5
7.3.1	Generic top-level domains (TLDs)/th pop. 15–69.....	85.2	9
7.3.2	Country-code TLDs/th pop. 15–69.....	72.9	9
7.3.3	Wikipedia monthly edits/mn pop. 15–69.....	13,634.1	6
7.3.4	Video uploads on YouTube/pop. 15–69.....	72.6	19

Key indicators

Population (millions)	2.1
GDP per capita, PPP\$	10,369.5
GDP (US\$ billions)	10.3

	Score (0–100) or value (hard data)	Rank
Global Innovation Index 2012 (out of 141).....	36.2	62
Innovation Output Sub-Index	29.2	71
Innovation Input Sub-Index	43.2	52
Innovation Efficiency Index	0.7	93
Global Innovation Index 2011 (out of 125)	67	
GII 2012 rank among GII 2011 economies (125)	60	
1 Institutions.....	68.8	42
1.1 Political environment	54.0	77
1.1.1 Political stability*.....	54.0	95
1.1.2 Government effectiveness*.....	36.3	79
1.1.3 Press freedom*.....	71.8	73
1.2 Regulatory environment.....	69.8	57
1.2.1 Regulatory quality*.....	58.9	61
1.2.2 Rule of law*.....	39.9	72
1.2.3 Cost of redundancy dismissal, salary weeks.....	13.0	55
1.3 Business environment	82.7	12 ●
1.3.1 Ease of starting a business*.....	97.1	5 ●
1.3.2 Ease of resolving insolvency*.....	66.1	48
1.3.3 Ease of paying taxes*.....	84.8	22 ●
2 Human capital & research.....	36.6	65
2.1 Education.....	53.1	64
2.1.1 Current expenditure on education, % GNI	4.9	42
2.1.2 Public expenditure/pupil, % GDP/cap.....	16.9	81
2.1.3 School life expectancy, years.....	13.3	65
2.1.4 PISA scales in reading, maths, & science.....	n/a	n/a
2.1.5 Pupil-teacher ratio, secondary	12.4	49
2.2 Tertiary education	39.7	53
2.2.1 Tertiary enrolment, % gross.....	40.4	57
2.2.2 Graduates in science & engineering, %	21.4	44
2.2.3 Tertiary inbound mobility, %.....	2.2	53
2.2.4 Gross tertiary outbound enrolment, %	3.6	24 ●
2.3 Research & development (R&D).....	17.0	92
2.3.1 Researchers, headcounts/mn pop.	1,001.7	56
2.3.2 Gross expenditure on R&D, % GDP.....	0.2	80
2.3.3 Quality of scientific research institutions†.....	38.7	83
3 Infrastructure.....	35.1	62
3.1 Information & communication technologies (ICT).....	36.3	63
3.1.1 ICT access*.....	55.7	49
3.1.2 ICT use*	31.1	48
3.1.3 Government's online service*.....	45.1	84
3.1.4 E-participation*.....	13.2	83
3.2 General infrastructure	36.0	71
3.2.1 Electricity output, kWh/cap.....	3,327.5	57
3.2.2 Electricity consumption, kWh/cap.....	3,466.7	51
3.2.3 Quality of trade & transport infrastructure*.....	38.8	68
3.2.4 Gross capital formation, % GDP.....	25.4	39
3.3 Ecological sustainability	33.2	60
3.3.1 GDP/unit of energy use, 2000 PPP\$/kg oil eq.....	5.4	68
3.3.2 Environmental performance*.....	47.0	92 ○
3.3.3 ISO 14001 environmental certificates/bn PPP\$ GDP	3.1	32
4 Market sophistication	43.1	52
4.1 Credit	34.3	55
4.1.1 Ease of getting credit*	57.7	43
4.1.2 Domestic credit to private sector, % GDP.....	45.3	71
4.1.3 Microfinance gross loans, % GDP.....	2.6	18 ●

4.2 Investment.....	24.4	72
4.2.1 Ease of protecting investors*.....	87.0	16 ●
4.2.2 Market capitalization, % GDP.....	29.0	62
4.2.3 Total value of stocks traded, % GDP.....	0.4	85 ○
4.2.4 Venture capital deals/tr PPP\$ GDP.....	0.0	65 ○
4.3 Trade & competition	70.7	26 ●
4.3.1 Applied tariff rate, weighted mean, %.....	2.7	53
4.3.2 Non-agricultural mkt access weighted tariff, %.....	0.0	1 ●
4.3.3 Imports of goods & services, % GDP.....	66.0	26 ●
4.3.4 Exports of goods & services, % GDP.....	47.3	48
4.3.5 Intensity of local competition†	52.9	106 ○
5 Business sophistication	32.2	110 ○
5.1 Knowledge workers.....	34.9	105
5.1.1 Knowledge-intensive employment, %.....	25.5	50
5.1.2 Firms offering formal training, % firms.....	19.0	93 ○
5.1.3 R&D performed by business, %.....	28.5	55
5.1.4 R&D financed by business, %	7.8	76 ○
5.1.5 GMAT mean score.....	473.6	91
5.1.6 GMAT test takers/mn pop. 20–34.....	67.7	67
5.2 Innovation linkages	25.8	119 ○
5.2.1 University/industry research collaboration†	38.0	89
5.2.2 State of cluster development†	34.9	96
5.2.3 R&D financed by abroad, %.....	8.6	37
5.2.4 JV–strategic alliance deals/tr PPP\$ GDP	0.0	114 ○
5.2.5 PCT patent filings with foreign inventor, %.....	n/a	n/a
5.3 Knowledge absorption	35.8	65
5.3.1 Royalty & license fees payments/th GDP.....	1.9	49
5.3.2 High-tech imports less re-imports, %	6.1	90
5.3.3 Computer & comm. service imports, %.....	45.0	24 ●
5.3.4 FDI net inflows, % GDP.....	3.2	53
6 Knowledge & technology outputs	28.8	60
6.1 Knowledge creation.....	21.4	70
6.1.1 Domestic resident patent ap/bn PPP\$ GDP	1.7	57
6.1.2 PCT resident patent ap/bn PPP\$ GDP	0.1	69
6.1.3 Domestic res utility model ap/bn PPP\$ GDP.....	n/a	n/a
6.1.4 Scientific & technical articles/bn PPP\$ GDP.....	2.9	71
6.2 Knowledge impact	34.7	64
6.2.1 Growth rate of PPP\$ GDP/worker, %.....	0.2	103 ○
6.2.2 New businesses/th pop. 15–64.....	5.6	16 ●
6.2.3 Computer software spending, % GDP.....	n/a	n/a
6.2.4 ISO 9001 quality certificates/bn PPP\$ GDP	4.6	69
6.3 Knowledge diffusion	30.2	53
6.3.1 Royalty & license fees receipts/th GDP.....	0.8	36
6.3.2 High-tech exports less re-exports, %.....	2.9	53
6.3.3 Computer & comm. service exports, %	42.9	36
6.3.4 FDI net outflows, % GDP	0.0	97 ○
7 Creative outputs	29.6	78
7.1 Creative intangibles.....	34.8	96
7.1.1 Domestic res trademark reg/bn PPP\$ GDP.....	n/a	n/a
7.1.2 Madrid resident trademark reg/bn PPP\$ GDP.....	0.6	30
7.1.3 ICT & business model creation†	43.0	100 ○
7.1.4 ICT & organizational model creation†	48.1	66
7.2 Creative goods & services	21.1	69
7.2.1 Recreation & culture consumption, %.....	3.0	71
7.2.2 National feature films/mn pop. 15–69.....	0.7	74
7.2.3 Paid-for dailies, circulation/th pop. 15–69.....	104.8	54
7.2.4 Creative goods exports, %.....	0.9	77
7.2.5 Creative services exports, %.....	12.0	14 ●
7.3 Online creativity.....	27.7	52
7.3.1 Generic top-level domains (TLDs)/th pop. 15–69.....	4.4	62
7.3.2 Country-code TLDs/th pop. 15–69.....	24.7	62
7.3.3 Wikipedia monthly edits/mn pop. 15–69.....	3,906.9	35
7.3.4 Video uploads on YouTube/pop. 15–69.....	62.0	51

Madagascar

Key indicators

Population (millions)	21.9
GDP per capita, PPP\$	943.2
GDP (US\$ billions)	9.4

	Score (0–100) or value (hard data)	Rank
Global Innovation Index 2012 (out of 141).....	24.2	126
Innovation Output Sub-Index	18.2	126
Innovation Input Sub-Index	30.2	116
Innovation Efficiency Index	0.6	123
Global Innovation Index 2011 (out of 125)		113
GII 2012 rank among GII 2011 economies (125)		116
1 Institutions.....	49.5	89
1.1 Political environment	43.5	108
1.1.1 Political stability*.....	37.9	120
1.1.2 Government effectiveness*.....	19.4	121
1.1.3 Press freedom*.....	73.3	67
1.2 Regulatory environment.....	61.3	85
1.2.1 Regulatory quality*.....	36.7	113
1.2.2 Rule of law*.....	25.4	114
1.2.3 Cost of redundancy dismissal, salary weeks.....	12.3	52 ●
1.3 Business environment	43.6	85
1.3.1 Ease of starting a business*.....	60.4	56 ●
1.3.2 Ease of resolving insolvency*.....	9.3	127
1.3.3 Ease of paying taxes*.....	61.1	55 ●
2 Human capital & research.....	21.0	119
2.1 Education.....	31.0	123
2.1.1 Current expenditure on education, % GNI	2.7	115
2.1.2 Public expenditure/pupil, % GDP/cap.....	11.5	102
2.1.3 School life expectancy, years.....	10.4	113
2.1.4 PISA scales in reading, maths, & science.....	n/a	n/a
2.1.5 Pupil-teacher ratio, secondary	23.5	106
2.2 Tertiary education	21.3	100
2.2.1 Tertiary enrolment, % gross.....	3.7	127
2.2.2 Graduates in science & engineering, %	18.2	62
2.2.3 Tertiary inbound mobility, %.....	1.8	58
2.2.4 Gross tertiary outbound enrolment, %	0.2	123
2.3 Research & development (R&D).....	10.8	124
2.3.1 Researchers, headcounts/mn pop.	90.3	102
2.3.2 Gross expenditure on R&D, % GDP.....	0.1	94
2.3.3 Quality of scientific research institutions†.....	28.9	113
3 Infrastructure.....	22.9	115
3.1 Information & communication technologies (ICT).....	13.6	125
3.1.1 ICT access*.....	18.9	122
3.1.2 ICT use*.....	0.9	135 ○
3.1.3 Government's online service*.....	32.0	110
3.1.4 E-participation*.....	2.6	115
3.2 General infrastructure	54.7	16 ●
3.2.1 Electricity output, kWh/cap.....	n/a	n/a
3.2.2 Electricity consumption, kWh/cap.....	n/a	n/a
3.2.3 Quality of trade & transport infrastructure*.....	40.8	59
3.2.4 Gross capital formation, % GDP.....	33.0	15 ●
3.3 Ecological sustainability	0.3	137 ○
3.3.1 GDP/unit of energy use, 2000 PPP\$/kg oil eq.....	n/a	n/a
3.3.2 Environmental performance*.....	n/a	n/a
3.3.3 ISO 14001 environmental certificates/bn PPP\$ GDP.....	0.1	129 ○
4 Market sophistication	30.6	107
4.1 Credit	3.0	136 ○
4.1.1 Ease of getting credit*.....	0.7	139 ○
4.1.2 Domestic credit to private sector, % GDP.....	11.7	134 ○
4.1.3 Microfinance gross loans, % GDP.....	0.6	44

4.2 Investment.....	29.1	57
4.2.1 Ease of protecting investors*.....	58.2	48
4.2.2 Market capitalization, % GDP.....	n/a	n/a
4.2.3 Total value of stocks traded, % GDP.....	n/a	n/a
4.2.4 Venture capital deals/tr PPP\$ GDP.....	0.0	65 ○
4.3 Trade & competition	59.8	89
4.3.1 Applied tariff rate, weighted mean, %.....	7.7	107
4.3.2 Non-agricultural mkt access weighted tariff, %.....	0.1	26 ●
4.3.3 Imports of goods & services, % GDP.....	52.8	45 ●
4.3.4 Exports of goods & services, % GDP.....	28.8	93
4.3.5 Intensity of local competition†.....	52.6	108
5 Business sophistication	27.2	130
5.1 Knowledge workers.....	23.2	128
5.1.1 Knowledge-intensive employment, %.....	2.4	105 ○
5.1.2 Firms offering formal training, % firms.....	27.0	71
5.1.3 R&D performed by business, %.....	n/a	n/a
5.1.4 R&D financed by business, %	n/a	n/a
5.1.5 GMAT mean score.....	533.0	49 ●
5.1.6 GMAT test takers/mn pop. 20–34.....	2.6	139 ○
5.2 Innovation linkages	23.1	128
5.2.1 University/industry research collaboration†.....	36.7	97
5.2.2 State of cluster development†.....	24.2	126
5.2.3 R&D financed by abroad, %.....	8.4	39
5.2.4 JV–strategic alliance deals/tr PPP\$ GDP.....	9.7	89
5.2.5 PCT patent filings with foreign inventor, %.....	n/a	n/a
5.3 Knowledge absorption	35.4	68
5.3.1 Royalty & license fees payments/th GDP.....	1.8	52
5.3.2 High-tech imports less re-imports, %	7.0	83
5.3.3 Computer & comm. service imports, %.....	34.7	58
5.3.4 FDI net inflows, % GDP.....	9.9	13 ●
6 Knowledge & technology outputs	12.5	138 ○
6.1 Knowledge creation.....	18.4	82
6.1.1 Domestic resident patent ap/bn PPP\$ GDP.....	0.5	81
6.1.2 PCT resident patent ap/bn PPP\$ GDP.....	0.1	71
6.1.3 Domestic res utility model ap/bn PPP\$ GDP.....	n/a	n/a
6.1.4 Scientific & technical articles/bn PPP\$ GDP.....	1.8	85
6.2 Knowledge impact	5.3	137 ○
6.2.1 Growth rate of PPP\$ GDP/worker, %.....	–5.3	116 ○
6.2.2 New businesses/th pop. 15–64.....	0.1	97 ○
6.2.3 Computer software spending, % GDP.....	n/a	n/a
6.2.4 ISO 9001 quality certificates/bn PPP\$ GDP.....	1.3	107
6.3 Knowledge diffusion	13.7	125
6.3.1 Royalty & license fees receipts/th GDP.....	0.5	47
6.3.2 High-tech exports less re-exports, %.....	0.6	85
6.3.3 Computer & comm. service exports, %	28.1	65
6.3.4 FDI net outflows, % GDP.....	n/a	n/a
7 Creative outputs	24.0	107
7.1 Creative intangibles.....	29.4	113
7.1.1 Domestic res trademark reg/bn PPP\$ GDP.....	97.5	9 ●
7.1.2 Madrid resident trademark reg/bn PPP\$ GDP.....	0.1	52
7.1.3 ICT & business model creation†.....	40.2	114
7.1.4 ICT & organizational model creation†.....	29.2	123
7.2 Creative goods & services	32.2	38 ●
7.2.1 Recreation & culture consumption, %.....	n/a	n/a
7.2.2 National feature films/mn pop. 15–69.....	n/a	n/a
7.2.3 Paid-for dailies, circulation/th pop. 15–69.....	10.5	115
7.2.4 Creative goods exports, %.....	5.6	9 ●
7.2.5 Creative services exports, %.....	0.4	87
7.3 Online creativity.....	5.0	128
7.3.1 Generic top-level domains (TLDs)/th pop. 15–69.....	0.0	138 ○
7.3.2 Country-code TLDs/th pop. 15–69.....	1.2	124
7.3.3 Wikipedia monthly edits/mn pop. 15–69.....	22.0	117
7.3.4 Video uploads on YouTube/pop. 15–69.....	18.7	122

Key indicators

Population (millions)	16.2
GDP per capita, PPP\$	852.7
GDP (US\$ billions)	5.7

	Score (0–100) or value (hard data)	Rank
Global Innovation Index 2012 (out of 141).....	25.4	120
Innovation Output Sub-Index	19.9	122
Innovation Input Sub-Index	30.8	110
Innovation Efficiency Index	0.6	105
Global Innovation Index 2011 (out of 125)		108
GII 2012 rank among GII 2011 economies (125)		110

1	Institutions.....	50.8	82
1.1	Political environment	48.4	86
1.1.1	Political stability*.....	67.3	60 ●
1.1.2	Government effectiveness*.....	30.5	90
1.1.3	Press freedom*.....	47.3	119
1.2	Regulatory environment.....	61.8	83
1.2.1	Regulatory quality*.....	37.4	111
1.2.2	Rule of law*.....	44.1	66
1.2.3	Cost of redundancy dismissal, salary weeks.....	16.7	77
1.3	Business environment	42.4	90
1.3.1	Ease of starting a business*.....	23.0	108
1.3.2	Ease of resolving insolvency*.....	17.9	115
1.3.3	Ease of paying taxes*.....	86.3	20 ●
2	Human capital & research.....	24.2	110
2.1	Education.....	44.3	95
2.1.1	Current expenditure on education, % GNI	5.3	32 ●
2.1.2	Public expenditure/pupil, % GDP/cap.....	n/a	n/a
2.1.3	School life expectancy, years.....	10.4	114
2.1.4	PISA scales in reading, maths, & science.....	n/a	n/a
2.1.5	Pupil-teacher ratio, secondary	n/a	n/a
2.2	Tertiary education	5.8	133 ○
2.2.1	Tertiary enrolment, % gross.....	0.7	134 ○
2.2.2	Graduates in science & engineering, %	7.0	100 ○
2.2.3	Tertiary inbound mobility, %.....	n/a	n/a
2.2.4	Gross tertiary outbound enrolment, %	0.2	128
2.3	Research & development (R&D).....	22.4	67
2.3.1	Researchers, headcounts/mn pop.	53.9	111
2.3.2	Gross expenditure on R&D, % GDP.....	n/a	n/a
2.3.3	Quality of scientific research institutions†.....	44.5	63
3	Infrastructure.....	16.4	138 ○
3.1	Information & communication technologies (ICT).....	9.2	139 ○
3.1.1	ICT access*.....	14.4	138 ○
3.1.2	ICT use*	0.7	136 ○
3.1.3	Government's online service*.....	21.6	130
3.1.4	E-participation*.....	0.0	127 ○
3.2	General infrastructure	39.5	50 ●
3.2.1	Electricity output, kWh/cap.....	n/a	n/a
3.2.2	Electricity consumption, kWh/cap.....	n/a	n/a
3.2.3	Quality of trade & transport infrastructure*.....	28.3	108
3.2.4	Gross capital formation, % GDP.....	24.5	45 ●
3.3	Ecological sustainability	0.6	136 ○
3.3.1	GDP/unit of energy use, 2000 PPP\$/kg oil eq.....	n/a	n/a
3.3.2	Environmental performance*.....	n/a	n/a
3.3.3	ISO 14001 environmental certificates/bn PPP\$ GDP.....	0.1	123
4	Market sophistication	29.1	116
4.1	Credit	12.9	114
4.1.1	Ease of getting credit*.....	21.1	104
4.1.2	Domestic credit to private sector, % GDP.....	16.0	126
4.1.3	Microfinance gross loans, % GDP.....	1.2	33 ●

4.2	Investment.....	14.1	103
4.2.1	Ease of protecting investors*.....	46.7	60
4.2.2	Market capitalization, % GDP.....	26.7	65
4.2.3	Total value of stocks traded, % GDP.....	0.4	86
4.2.4	Venture capital deals/tr PPP\$ GDP.....	0.0	65 ○
4.3	Trade & competition	60.2	87
4.3.1	Applied tariff rate, weighted mean, %.....	6.6	97
4.3.2	Non-agricultural mkt access weighted tariff, %.....	0.1	21 ●
4.3.3	Imports of goods & services, % GDP.....	36.1	85
4.3.4	Exports of goods & services, % GDP.....	26.3	99
4.3.5	Intensity of local competition†.....	56.3	97
5	Business sophistication	33.7	99
5.1	Knowledge workers.....	40.9	85
5.1.1	Knowledge-intensive employment, %.....	n/a	n/a
5.1.2	Firms offering formal training, % firms.....	48.4	33 ●
5.1.3	R&D performed by business, %.....	n/a	n/a
5.1.4	R&D financed by business, %	n/a	n/a
5.1.5	GMAT mean score.....	420.0	119
5.1.6	GMAT test takers/mn pop. 20–34.....	7.0	129
5.2	Innovation linkages	35.4	68
5.2.1	University/industry research collaboration†.....	43.9	61
5.2.2	State of cluster development†.....	41.5	68
5.2.3	R&D financed by abroad, %.....	n/a	n/a
5.2.4	JV–strategic alliance deals/tr PPP\$ GDP.....	10.4	86
5.2.5	PCT patent filings with foreign inventor, %.....	n/a	n/a
5.3	Knowledge absorption	24.8	126
5.3.1	Royalty & license fees payments/th GDP.....	0.1	110 ○
5.3.2	High-tech imports less re-imports, %	9.9	52 ●
5.3.3	Computer & comm. service imports, %.....	14.9	115
5.3.4	FDI net inflows, % GDP.....	2.7	64
6	Knowledge & technology outputs	21.5	99
6.1	Knowledge creation.....	14.3	100
6.1.1	Domestic resident patent ap/bn PPP\$ GDP.....	n/a	n/a
6.1.2	PCT resident patent ap/bn PPP\$ GDP.....	n/a	n/a
6.1.3	Domestic res utility model ap/bn PPP\$ GDP.....	n/a	n/a
6.1.4	Scientific & technical articles/bn PPP\$ GDP.....	4.4	61 ●
6.2	Knowledge impact	22.5	109
6.2.1	Growth rate of PPP\$ GDP/worker, %.....	2.9	93 ●
6.2.2	New businesses/th pop. 15–64.....	0.1	95 ○
6.2.3	Computer software spending, % GDP.....	n/a	n/a
6.2.4	ISO 9001 quality certificates/bn PPP\$ GDP.....	0.4	128
6.3	Knowledge diffusion	27.7	62 ●
6.3.1	Royalty & license fees receipts/th GDP.....	n/a	n/a
6.3.2	High-tech exports less re-exports, %.....	0.2	103
6.3.3	Computer & comm. service exports, %	26.1	71
6.3.4	FDI net outflows, % GDP.....	–0.4	113 ○
7	Creative outputs	18.3	127
7.1	Creative intangibles.....	32.5	104
7.1.1	Domestic res trademark reg/bn PPP\$ GDP.....	11.0	77
7.1.2	Madrid resident trademark reg/bn PPP\$ GDP.....	n/a	n/a
7.1.3	ICT & business model creation†.....	46.1	86
7.1.4	ICT & organizational model creation†.....	46.1	76
7.2	Creative goods & services	4.1	124
7.2.1	Recreation & culture consumption, %.....	1.5	89
7.2.2	National feature films/mn pop. 15–69.....	n/a	n/a
7.2.3	Paid-for dailies, circulation/th pop. 15–69.....	2.9	129 ○
7.2.4	Creative goods exports, %.....	0.2	105
7.2.5	Creative services exports, %.....	0.6	79
7.3	Online creativity.....	4.1	133 ○
7.3.1	Generic top-level domains (TLDs)/th pop. 15–69.....	0.3	116
7.3.2	Country-code TLDs/th pop. 15–69.....	2.8	109
7.3.3	Wikipedia monthly edits/mn pop. 15–69.....	n/a	n/a
7.3.4	Video uploads on YouTube/pop. 15–69.....	9.2	135 ○

Key indicators

Population (millions)	28.7
GDP per capita, PPP\$	15,579.0
GDP (US\$ billions)	247.6

	Score (0–100) or value (hard data)	Rank
Global Innovation Index 2012 (out of 141).....	45.9	32
Innovation Output Sub-Index	37.6	38
Innovation Input Sub-Index	54.2	29
Innovation Efficiency Index	0.7	84
Global Innovation Index 2011 (out of 125)		31
GII 2012 rank among GII 2011 economies (125)		31

1	Institutions.....	63.5	55
1.1	Political environment	64.7	52
1.1.1	Political stability*.....	68.8	56
1.1.2	Government effectiveness*.....	69.8	28
1.1.3	Press freedom*.....	55.4	97 ○
1.2	Regulatory environment.....	66.2	70
1.2.1	Regulatory quality*.....	66.5	44
1.2.2	Rule of law*.....	61.3	45
1.2.3	Cost of redundancy dismissal, salary weeks.....	23.9	108 ○
1.3	Business environment	59.7	44
1.3.1	Ease of starting a business*.....	35.9	90 ○
1.3.2	Ease of resolving insolvency*.....	64.7	50
1.3.3	Ease of paying taxes*.....	78.4	31
2	Human capital & research.....	44.5	42
2.1	Education.....	49.6	74
2.1.1	Current expenditure on education, % GNI	4.1	70
2.1.2	Public expenditure/pupil, % GDP/cap.....	21.6	47
2.1.3	School life expectancy, years.....	12.6	79
2.1.4	PISA scales in reading, maths, & science.....	413.4	53 ○
2.1.5	Pupil-teacher ratio, secondary	13.7	60
2.2	Tertiary education	56.0	10
2.2.1	Tertiary enrolment, % gross.....	40.2	58
2.2.2	Graduates in science & engineering, %	37.7	3 ●
2.2.3	Tertiary inbound mobility, %.....	5.8	27
2.2.4	Gross tertiary outbound enrolment, %	2.2	44
2.3	Research & development (R&D).....	28.0	48
2.3.1	Researchers, headcounts/mn pop.	715.4	63
2.3.2	Gross expenditure on R&D, % GDP.....	0.6	49
2.3.3	Quality of scientific research institutions†	64.4	23
3	Infrastructure.....	44.1	41
3.1	Information & communication technologies (ICT).....	51.9	38
3.1.1	ICT access*.....	47.0	60
3.1.2	ICT use*.....	31.5	47
3.1.3	Government's online service*.....	79.1	20
3.1.4	E-participation*.....	50.0	31
3.2	General infrastructure	41.6	40
3.2.1	Electricity output, kWh/cap.....	3,767.0	53
3.2.2	Electricity consumption, kWh/cap.....	3,676.9	50
3.2.3	Quality of trade & transport infrastructure*.....	62.5	27
3.2.4	Gross capital formation, % GDP.....	21.4	80
3.3	Ecological sustainability	38.9	46
3.3.1	GDP/unit of energy use, 2000 PPP\$/kg oil eq.....	4.5	83 ○
3.3.2	Environmental performance*.....	62.5	25
3.3.3	ISO 14001 environmental certificates/bn PPP\$ GDP	4.0	23
4	Market sophistication	60.8	14
4.1	Credit	46.8	31
4.1.1	Ease of getting credit*.....	100.0	1 ●
4.1.2	Domestic credit to private sector, % GDP.....	114.9	25
4.1.3	Microfinance gross loans, % GDP.....	0.1	68 ○

4.2	Investment.....	54.7	14
4.2.1	Ease of protecting investors*.....	97.8	4 ●
4.2.2	Market capitalization, % GDP.....	172.6	5 ●
4.2.3	Total value of stocks traded, % GDP.....	37.9	27
4.2.4	Venture capital deals/tr PPP\$ GDP.....	6.7	52
4.3	Trade & competition	81.0	4 ●
4.3.1	Applied tariff rate, weighted mean, %.....	4.0	68
4.3.2	Non-agricultural mkt access weighted tariff, %.....	0.5	54
4.3.3	Imports of goods & services, % GDP.....	79.5	12
4.3.4	Exports of goods & services, % GDP.....	97.3	5 ●
4.3.5	Intensity of local competition†	74.1	24
5	Business sophistication	58.2	11
5.1	Knowledge workers.....	68.4	28
5.1.1	Knowledge-intensive employment, %.....	26.8	49
5.1.2	Firms offering formal training, % firms.....	50.1	30
5.1.3	R&D performed by business, %.....	84.9	1 ●
5.1.4	R&D financed by business, %	84.5	1 ●
5.1.5	GMAT mean score.....	545.9	41
5.1.6	GMAT test takers/mn pop. 20–34.....	65.1	69
5.2	Innovation linkages	42.4	45
5.2.1	University/industry research collaboration†	65.1	20
5.2.2	State of cluster development†	65.4	4 ●
5.2.3	R&D financed by abroad, %.....	0.2	91 ○
5.2.4	JV–strategic alliance deals/tr PPP\$ GDP	78.4	18
5.2.5	PCT patent filings with foreign inventor, %.....	33.2	62 ○
5.3	Knowledge absorption	63.7	6 ●
5.3.1	Royalty & license fees payments/th GDP.....	5.9	11
5.3.2	High-tech imports less re-imports, %	32.7	1 ●
5.3.3	Computer & comm. service imports, %.....	38.3	41
5.3.4	FDI net inflows, % GDP.....	4.0	47
6	Knowledge & technology outputs	38.0	36
6.1	Knowledge creation.....	22.8	65
6.1.1	Domestic resident patent ap/bn PPP\$ GDP	3.0	45
6.1.2	PCT resident patent ap/bn PPP\$ GDP.....	0.6	34
6.1.3	Domestic res utility model ap/bn PPP\$ GDP.....	0.1	60 ○
6.1.4	Scientific & technical articles/bn PPP\$ GDP.....	3.5	67
6.2	Knowledge impact	42.5	39
6.2.1	Growth rate of PPP\$ GDP/worker, %.....	4.6	24
6.2.2	New businesses/th pop. 15–64.....	2.5	40
6.2.3	Computer software spending, % GDP.....	0.3	29
6.2.4	ISO 9001 quality certificates/bn PPP\$ GDP	20.7	24
6.3	Knowledge diffusion	48.7	24
6.3.1	Royalty & license fees receipts/th GDP.....	1.4	26
6.3.2	High-tech exports less re-exports, %.....	33.0	3 ●
6.3.3	Computer & comm. service exports, %	28.0	67
6.3.4	FDI net outflows, % GDP	5.7	10
7	Creative outputs	37.3	42
7.1	Creative intangibles.....	50.5	26
7.1.1	Domestic res trademark reg/bn PPP\$ GDP.....	13.5	71 ○
7.1.2	Madrid resident trademark reg/bn PPP\$ GDP.....	n/a	n/a
7.1.3	ICT & business model creation†	72.5	8
7.1.4	ICT & organizational model creation†	72.6	9
7.2	Creative goods & services	23.8	62
7.2.1	Recreation & culture consumption, %.....	5.1	53
7.2.2	National feature films/mn pop. 15–69.....	1.5	58
7.2.3	Paid-for dailies, circulation/th pop. 15–69.....	139.7	42
7.2.4	Creative goods exports, %.....	2.0	43
7.2.5	Creative services exports, %.....	4.5	43
7.3	Online creativity.....	24.3	56
7.3.1	Generic top-level domains (TLDs)/th pop. 15–69.....	5.4	60
7.3.2	Country-code TLDs/th pop. 15–69.....	30.3	55
7.3.3	Wikipedia monthly edits/mn pop. 15–69.....	1,054.0	59
7.3.4	Video uploads on YouTube/pop. 15–69.....	56.1	64

Key indicators

Population (millions)	13.8
GDP per capita, PPP\$	1,328.1
GDP (US\$ billions)	11.0

	Score (0–100) or value (hard data)	Rank
Global Innovation Index 2012 (out of 141).....	25.4	119
Innovation Output Sub-Index	23.8	97
Innovation Input Sub-Index	27.0	131
Innovation Efficiency Index	0.9	19 ●
Global Innovation Index 2011 (out of 125)	107	
GII 2012 rank among GII 2011 economies (125)	109	

1	Institutions.....	48.0	96
1.1	Political environment	56.8	69 ●
1.1.1	Political stability*.....	59.2	86
1.1.2	Government effectiveness*.....	17.8	126
1.1.3	Press freedom*.....	93.2	23 ●
1.2	Regulatory environment.....	63.2	80
1.2.1	Regulatory quality*.....	39.8	104
1.2.2	Rule of law*.....	35.5	85
1.2.3	Cost of redundancy dismissal, salary weeks.....	13.7	60 ●
1.3	Business environment	24.1	121
1.3.1	Ease of starting a business*.....	33.0	94
1.3.2	Ease of resolving insolvency*.....	28.7	100
1.3.3	Ease of paying taxes*.....	10.7	125
2	Human capital & research.....	18.5	130
2.1	Education.....	35.2	119
2.1.1	Current expenditure on education, % GNI	3.9	82
2.1.2	Public expenditure/pupil, % GDP/cap.....	23.5	39 ●
2.1.3	School life expectancy, years.....	7.3	130 ○
2.1.4	PISA scales in reading, maths, & science.....	n/a	n/a
2.1.5	Pupil-teacher ratio, secondary	24.7	111
2.2	Tertiary education	3.4	139 ○
2.2.1	Tertiary enrolment, % gross.....	5.8	118
2.2.2	Graduates in science & engineering, %	n/a	n/a
2.2.3	Tertiary inbound mobility, %.....	n/a	n/a
2.2.4	Gross tertiary outbound enrolment, %	0.2	121
2.3	Research & development (R&D).....	16.9	93
2.3.1	Researchers, headcounts/mn pop.	62.5	107
2.3.2	Gross expenditure on R&D, % GDP.....	0.2	76
2.3.3	Quality of scientific research institutions†.....	45.1	61 ●
3	Infrastructure.....	16.6	135 ○
3.1	Information & communication technologies (ICT).....	12.9	126
3.1.1	ICT access*.....	18.4	127
3.1.2	ICT use*	1.3	131
3.1.3	Government's online service*.....	32.0	110
3.1.4	E-participation*.....	0.0	127 ○
3.2	General infrastructure	35.6	75
3.2.1	Electricity output, kWh/cap.....	n/a	n/a
3.2.2	Electricity consumption, kWh/cap.....	n/a	n/a
3.2.3	Quality of trade & transport infrastructure*.....	25.0	119
3.2.4	Gross capital formation, % GDP.....	22.4	72 ●
3.3	Ecological sustainability	1.3	132 ○
3.3.1	GDP/unit of energy use, 2000 PPP\$/kg oil eq.....	n/a	n/a
3.3.2	Environmental performance*.....	n/a	n/a
3.3.3	ISO 14001 environmental certificates/bn PPP\$ GDP	0.2	108
4	Market sophistication	19.5	136 ○
4.1	Credit	5.8	131
4.1.1	Ease of getting credit*	2.8	126 ○
4.1.2	Domestic credit to private sector, % GDP.....	18.4	120
4.1.3	Microfinance gross loans, % GDP.....	0.9	39 ●

4.2	Investment.....	6.5	119
4.2.1	Ease of protecting investors*.....	12.9	119
4.2.2	Market capitalization, % GDP.....	n/a	n/a
4.2.3	Total value of stocks traded, % GDP.....	n/a	n/a
4.2.4	Venture capital deals/tr PPP\$ GDP.....	0.0	65 ○
4.3	Trade & competition	46.2	129
4.3.1	Applied tariff rate, weighted mean, %.....	8.4	112
4.3.2	Non-agricultural mkt access weighted tariff, %.....	3.4	128
4.3.3	Imports of goods & services, % GDP.....	35.6	88
4.3.4	Exports of goods & services, % GDP.....	26.2	101
4.3.5	Intensity of local competition†	58.0	91
5	Business sophistication	32.4	108
5.1	Knowledge workers.....	22.1	131
5.1.1	Knowledge-intensive employment, %.....	n/a	n/a
5.1.2	Firms offering formal training, % firms.....	32.1	58
5.1.3	R&D performed by business, %.....	3.0	82
5.1.4	R&D financed by business, %	10.1	72
5.1.5	GMAT mean score.....	405.0	126
5.1.6	GMAT test takers/mn pop. 20–34.....	7.1	128
5.2	Innovation linkages	51.5	88 ●
5.2.1	University/industry research collaboration†	38.0	88
5.2.2	State of cluster development†	32.4	109
5.2.3	R&D financed by abroad, %.....	49.0	1 ●
5.2.4	JV–strategic alliance deals/tr PPP\$ GDP	32.7	44 ●
5.2.5	PCT patent filings with foreign inventor, %.....	n/a	n/a
5.3	Knowledge absorption	23.5	132
5.3.1	Royalty & license fees payments/th GDP.....	0.3	101
5.3.2	High-tech imports less re-imports, %	4.2	115 ○
5.3.3	Computer & comm. service imports, %.....	25.0	82
5.3.4	FDI net inflows, % GDP.....	1.6	91
6	Knowledge & technology outputs	22.6	93
6.1	Knowledge creation.....	17.7	88
6.1.1	Domestic resident patent ap/bn PPP\$ GDP	0.2	95
6.1.2	PCT resident patent ap/bn PPP\$ GDP.....	0.1	72
6.1.3	Domestic res utility model ap/bn PPP\$ GDP.....	n/a	n/a
6.1.4	Scientific & technical articles/bn PPP\$ GDP.....	1.6	95
6.2	Knowledge impact	26.2	96
6.2.1	Growth rate of PPP\$ GDP/worker, %.....	2.2	66
6.2.2	New businesses/th pop. 15–64.....	n/a	n/a
6.2.3	Computer software spending, % GDP.....	n/a	n/a
6.2.4	ISO 9001 quality certificates/bn PPP\$ GDP	0.2	135 ○
6.3	Knowledge diffusion	23.8	81
6.3.1	Royalty & license fees receipts/th GDP.....	0.0	82
6.3.2	High-tech exports less re-exports, %.....	0.2	105
6.3.3	Computer & comm. service exports, %	34.9	49 ●
6.3.4	FDI net outflows, % GDP	–0.3	111
7	Creative outputs	25.0	100
7.1	Creative intangibles.....	47.9	36 ●
7.1.1	Domestic res trademark reg/bn PPP\$ GDP.....	n/a	n/a
7.1.2	Madrid resident trademark reg/bn PPP\$ GDP.....	n/a	n/a
7.1.3	ICT & business model creation†	47.5	82
7.1.4	ICT & organizational model creation†	48.3	65 ●
7.2	Creative goods & services	1.6	135 ○
7.2.1	Recreation & culture consumption, %.....	n/a	n/a
7.2.2	National feature films/mn pop. 15–69.....	n/a	n/a
7.2.3	Paid-for dailies, circulation/th pop. 15–69.....	5.2	123
7.2.4	Creative goods exports, %.....	0.1	121
7.2.5	Creative services exports, %.....	0.8	75
7.3	Online creativity.....	2.6	138 ○
7.3.1	Generic top-level domains (TLDs)/th pop. 15–69.....	0.0	139 ○
7.3.2	Country-code TLDs/th pop. 15–69.....	0.0	139 ○
7.3.3	Wikipedia monthly edits/mn pop. 15–69.....	10.4	124 ○
7.3.4	Video uploads on YouTube/pop. 15–69.....	10.4	134 ○

Key indicators

Population (millions)	0.4
GDP per capita, PPP\$	25,782.7
GDP (US\$ billions)	9.3

	Score (0–100) or value (hard data)	Rank
Global Innovation Index 2012 (out of 141).....	56.1	16
Innovation Output Sub-Index	57.0	4 ●
Innovation Input Sub-Index	55.3	27
Innovation Efficiency Index	1.0	4 ●
Global Innovation Index 2011 (out of 125)	n/a	
GII 2012 rank among GII 2011 economies (125)	n/a	

1	Institutions.....	84.4	18
1.1	Political environment	81.4	25
1.1.1	Political stability*.....	93.0	7
1.1.2	Government effectiveness*.....	71.3	27
1.1.3	Press freedom*.....	80.1	49
1.2	Regulatory environment.....	87.4	21
1.2.1	Regulatory quality*.....	87.8	19
1.2.2	Rule of law*.....	87.0	20
1.2.3	Cost of redundancy dismissal, salary weeks.....	n/a	n/a
1.3	Business environment	n/a	n/a
1.3.1	Ease of starting a business*.....	n/a	n/a
1.3.2	Ease of resolving insolvency*.....	n/a	n/a
1.3.3	Ease of paying taxes*.....	n/a	n/a
2	Human capital & research.....	42.3	47
2.1	Education.....	66.6	13
2.1.1	Current expenditure on education, % GNI	6.2	16
2.1.2	Public expenditure/pupil, % GDP/cap.....	28.8	10
2.1.3	School life expectancy, years.....	14.6	43
2.1.4	PISA scales in reading, maths, & science.....	455.4	40 ○
2.1.5	Pupil-teacher ratio, secondary	8.2	12
2.2	Tertiary education	35.3	58
2.2.1	Tertiary enrolment, % gross.....	33.4	70
2.2.2	Graduates in science & engineering, %	15.0	77 ○
2.2.3	Tertiary inbound mobility, %.....	4.3	31
2.2.4	Gross tertiary outbound enrolment, %	3.7	20
2.3	Research & development (R&D).....	25.1	58
2.3.1	Researchers, headcounts/mn pop.	2,638.0	34
2.3.2	Gross expenditure on R&D, % GDP.....	0.6	51
2.3.3	Quality of scientific research institutions†	43.2	70 ○
3	Infrastructure.....	42.3	46
3.1	Information & communication technologies (ICT).....	52.7	36
3.1.1	ICT access*.....	76.4	15
3.1.2	ICT use*.....	46.6	30
3.1.3	Government's online service*.....	61.4	41
3.1.4	E-participation*.....	26.3	55
3.2	General infrastructure	34.9	80 ○
3.2.1	Electricity output, kWh/cap.....	5,209.1	41
3.2.2	Electricity consumption, kWh/cap.....	4,404.8	44
3.2.3	Quality of trade & transport infrastructure*.....	47.3	47
3.2.4	Gross capital formation, % GDP.....	16.8	119 ○
3.3	Ecological sustainability	39.3	44
3.3.1	GDP/unit of energy use, 2000 PPP\$/kg oil eq.....	9.7	15
3.3.2	Environmental performance*.....	48.5	84 ○
3.3.3	ISO 14001 environmental certificates/bn PPP\$ GDP	1.5	51
4	Market sophistication	42.1	57
4.1	Credit	44.9	32
4.1.1	Ease of getting credit*.....	n/a	n/a
4.1.2	Domestic credit to private sector, % GDP.....	131.4	16
4.1.3	Microfinance gross loans, % GDP.....	n/a	n/a

4.2	Investment.....	3.0	135 ○
4.2.1	Ease of protecting investors*.....	n/a	n/a
4.2.2	Market capitalization, % GDP.....	24.8	67 ○
4.2.3	Total value of stocks traded, % GDP.....	0.2	91 ○
4.2.4	Venture capital deals/tr PPP\$ GDP.....	0.0	65 ○
4.3	Trade & competition	78.5	6 ●
4.3.1	Applied tariff rate, weighted mean, %.....	1.6	11
4.3.2	Non-agricultural mkt access weighted tariff, %.....	2.0	92 ○
4.3.3	Imports of goods & services, % GDP.....	83.4	8
4.3.4	Exports of goods & services, % GDP.....	85.2	8
4.3.5	Intensity of local competition†	79.6	10
5	Business sophistication	65.2	4 ●
5.1	Knowledge workers.....	69.6	26
5.1.1	Knowledge-intensive employment, %.....	35.9	32
5.1.2	Firms offering formal training, % firms.....	n/a	n/a
5.1.3	R&D performed by business, %.....	62.4	18
5.1.4	R&D financed by business, %	51.4	18
5.1.5	GMAT mean score.....	578.0	15
5.1.6	GMAT test takers/mn pop. 20–34.....	63.8	70
5.2	Innovation linkages	44.3	39
5.2.1	University/industry research collaboration†	46.4	51
5.2.2	State of cluster development†	42.0	63
5.2.3	R&D financed by abroad, %.....	17.2	16
5.2.4	JV-strategic alliance deals/tr PPP\$ GDP	26.2	55
5.2.5	PCT patent filings with foreign inventor, %.....	92.3	38
5.3	Knowledge absorption	81.5	3 ●
5.3.1	Royalty & license fees payments/th GDP.....	20.9	1 ●
5.3.2	High-tech imports less re-imports, %	23.5	5 ●
5.3.3	Computer & comm. service imports, %.....	64.9	5 ●
5.3.4	FDI net inflows, % GDP.....	12.1	12
6	Knowledge & technology outputs.....	53.1	14
6.1	Knowledge creation.....	35.8	37
6.1.1	Domestic resident patent ap/bn PPP\$ GDP	4.1	36
6.1.2	PCT resident patent ap/bn PPP\$ GDP	1.7	25
6.1.3	Domestic res utility model ap/bn PPP\$ GDP.....	n/a	n/a
6.1.4	Scientific & technical articles/bn PPP\$ GDP.....	3.8	63
6.2	Knowledge impact	55.4	10
6.2.1	Growth rate of PPP\$ GDP/worker, %.....	0.5	99 ○
6.2.2	New businesses/th pop. 15–64.....	9.5	5 ●
6.2.3	Computer software spending, % GDP.....	n/a	n/a
6.2.4	ISO 9001 quality certificates/bn PPP\$ GDP	45.7	6 ●
6.3	Knowledge diffusion	67.9	6 ●
6.3.1	Royalty & license fees receipts/th GDP.....	4.2	15
6.3.2	High-tech exports less re-exports, %.....	50.4	1 ●
6.3.3	Computer & comm. service exports, %	59.6	13
6.3.4	FDI net outflows, % GDP	1.1	38
7	Creative outputs	60.9	2 ●
7.1	Creative intangibles.....	57.3	14
7.1.1	Domestic res trademark reg/bn PPP\$ GDP.....	62.9	27
7.1.2	Madrid resident trademark reg/bn PPP\$ GDP.....	n/a	n/a
7.1.3	ICT & business model creation†	65.8	21
7.1.4	ICT & organizational model creation†	76.4	4 ●
7.2	Creative goods & services	86.3	1 ●
7.2.1	Recreation & culture consumption, %.....	10.9	9
7.2.2	National feature films/mn pop. 15–69.....	16.1	5 ●
7.2.3	Paid-for dailies, circulation/th pop. 15–69.....	322.0	11
7.2.4	Creative goods exports, %.....	6.5	6 ●
7.2.5	Creative services exports, %.....	70.3	1 ●
7.3	Online creativity.....	42.8	33
7.3.1	Generic top-level domains (TLDs)/th pop. 15–69.....	37.1	22
7.3.2	Country-code TLDs/th pop. 15–69.....	42.2	44
7.3.3	Wikipedia monthly edits/mn pop. 15–69.....	3,201.1	40
7.3.4	Video uploads on YouTube/pop. 15–69.....	75.5	14

Key indicators

Population (millions)	1.3
GDP per capita, PPP\$	15,015.7
GDP (US\$ billions)	11.0

	Score (0–100) or value (hard data)	Rank
Global Innovation Index 2012 (out of 141).....	39.2	49
Innovation Output Sub-Index	33.8	48
Innovation Input Sub-Index	44.7	49
Innovation Efficiency Index	0.8	60
Global Innovation Index 2011 (out of 125)	53	
GII 2012 rank among GII 2011 economies (125)	47	
1 Institutions.....	78.8	24
1.1 Political environment	73.6	38
1.1.1 Political stability*.....	78.0	39
1.1.2 Government effectiveness*.....	61.1	37
1.1.3 Press freedom*.....	81.8	47
1.2 Regulatory environment.....	83.2	28
1.2.1 Regulatory quality*.....	73.2	37
1.2.2 Rule of law*.....	70.1	33
1.2.3 Cost of redundancy dismissal, salary weeks.....	10.6	43
1.3 Business environment	79.6	17
1.3.1 Ease of starting a business*.....	92.0	12 ●
1.3.2 Ease of resolving insolvency*.....	52.5	67
1.3.3 Ease of paying taxes*.....	94.2	9 ●
2 Human capital & research.....	34.1	70
2.1 Education.....	42.6	101
2.1.1 Current expenditure on education, % GNI	3.1	101
2.1.2 Public expenditure/pupil, % GDP/cap.....	12.6	97 ○
2.1.3 School life expectancy, years.....	13.6	58
2.1.4 PISA scales in reading, maths, & science.....	414.6	50
2.1.5 Pupil-teacher ratio, secondary	15.9	74
2.2 Tertiary education	35.2	60
2.2.1 Tertiary enrolment, % gross.....	24.9	80
2.2.2 Graduates in science & engineering, %	n/a	n/a
2.2.3 Tertiary inbound mobility, %.....	0.0	90 ○
2.2.4 Gross tertiary outbound enrolment, %	7.4	6 ●
2.3 Research & development (R&D).....	24.7	60
2.3.1 Researchers, headcounts/mn pop.	n/a	n/a
2.3.2 Gross expenditure on R&D, % GDP.....	0.4	67
2.3.3 Quality of scientific research institutions†.....	41.2	74
3 Infrastructure.....	23.5	112 ○
3.1 Information & communication technologies (ICT).....	29.2	81
3.1.1 ICT access*.....	46.5	61
3.1.2 ICT use*	19.1	64
3.1.3 Government's online service*.....	43.1	86
3.1.4 E-participation*.....	7.9	98 ○
3.2 General infrastructure	39.3	52
3.2.1 Electricity output, kWh/cap.....	n/a	n/a
3.2.2 Electricity consumption, kWh/cap.....	n/a	n/a
3.2.3 Quality of trade & transport infrastructure*.....	32.3	96
3.2.4 Gross capital formation, % GDP.....	22.5	69
3.3 Ecological sustainability	2.0	130 ○
3.3.1 GDP/unit of energy use, 2000 PPP\$/kg oil eq.....	n/a	n/a
3.3.2 Environmental performance*.....	n/a	n/a
3.3.3 ISO 14001 environmental certificates/bn PPP\$ GDP	0.3	96
4 Market sophistication	46.1	39
4.1 Credit	33.9	56
4.1.1 Ease of getting credit*	38.7	72
4.1.2 Domestic credit to private sector, % GDP.....	87.8	38
4.1.3 Microfinance gross loans, % GDP	n/a	n/a

4.2 Investment.....	29.2	56
4.2.1 Ease of protecting investors*.....	90.6	12 ●
4.2.2 Market capitalization, % GDP.....	66.9	35
4.2.3 Total value of stocks traded, % GDP.....	3.7	60
4.2.4 Venture capital deals/tr PPP\$ GDP.....	0.0	65 ○
4.3 Trade & competition	75.1	15 ●
4.3.1 Applied tariff rate, weighted mean, %.....	1.1	7 ●
4.3.2 Non-agricultural mkt access weighted tariff, %.....	0.0	9 ●
4.3.3 Imports of goods & services, % GDP	57.6	38
4.3.4 Exports of goods & services, % GDP	45.2	51
4.3.5 Intensity of local competition†	67.3	55
5 Business sophistication	40.9	58
5.1 Knowledge workers.....	43.7	71
5.1.1 Knowledge-intensive employment, %.....	15.8	85 ○
5.1.2 Firms offering formal training, % firms.....	25.6	75
5.1.3 R&D performed by business, %.....	n/a	n/a
5.1.4 R&D financed by business, %	n/a	n/a
5.1.5 GMAT mean score.....	566.8	22
5.1.6 GMAT test takers/mn pop. 20–34.....	175.2	32
5.2 Innovation linkages	46.1	31
5.2.1 University/industry research collaboration†	36.8	95
5.2.2 State of cluster development†	48.4	39
5.2.3 R&D financed by abroad, %.....	n/a	n/a
5.2.4 JV–strategic alliance deals/tr PPP\$ GDP	10.3	87
5.2.5 PCT patent filings with foreign inventor, %.....	100.0	1 ●
5.3 Knowledge absorption	33.1	78
5.3.1 Royalty & license fees payments/th GDP.....	1.2	66
5.3.2 High-tech imports less re-imports, %	6.0	91 ○
5.3.3 Computer & comm. service imports, %.....	39.9	40
5.3.4 FDI net inflows, % GDP	4.4	43
6 Knowledge & technology outputs	24.9	78
6.1 Knowledge creation.....	2.1	134 ○
6.1.1 Domestic resident patent ap/bn PPP\$ GDP	0.1	104 ○
6.1.2 PCT resident patent ap/bn PPP\$ GDP	n/a	n/a
6.1.3 Domestic res utility model ap/bn PPP\$ GDP.....	n/a	n/a
6.1.4 Scientific & technical articles/bn PPP\$ GDP.....	1.2	106 ○
6.2 Knowledge impact	49.5	20
6.2.1 Growth rate of PPP\$ GDP/worker, %	n/a	n/a
6.2.2 New businesses/th pop. 15–64.....	7.3	12 ●
6.2.3 Computer software spending, % GDP.....	n/a	n/a
6.2.4 ISO 9001 quality certificates/bn PPP\$ GDP	5.3	66
6.3 Knowledge diffusion	23.0	87
6.3.1 Royalty & license fees receipts/th GDP.....	0.1	78
6.3.2 High-tech exports less re-exports, %.....	0.4	91 ○
6.3.3 Computer & comm. service exports, %	30.0	59
6.3.4 FDI net outflows, % GDP	1.3	33
7 Creative outputs	42.7	31
7.1 Creative intangibles.....	53.0	19
7.1.1 Domestic res trademark reg/bn PPP\$ GDP.....	n/a	n/a
7.1.2 Madrid resident trademark reg/bn PPP\$ GDP.....	n/a	n/a
7.1.3 ICT & business model creation†	52.4	65
7.1.4 ICT & organizational model creation†	53.7	47
7.2 Creative goods & services	42.5	15 ●
7.2.1 Recreation & culture consumption, %.....	n/a	n/a
7.2.2 National feature films/mn pop. 15–69.....	20.1	1 ●
7.2.3 Paid-for dailies, circulation/th pop. 15–69.....	110.8	50
7.2.4 Creative goods exports, %.....	4.7	13 ●
7.2.5 Creative services exports, %.....	0.6	84 ○
7.3 Online creativity.....	22.3	67
7.3.1 Generic top-level domains (TLDs)/th pop. 15–69.....	6.0	58
7.3.2 Country-code TLDs/th pop. 15–69.....	30.6	53
7.3.3 Wikipedia monthly edits/mn pop. 15–69.....	1,042.7	61
7.3.4 Video uploads on YouTube/pop. 15–69	47.3	85

Mexico

Key indicators

Population (millions)	109.7
GDP per capita, PPP\$	15,121.4
GDP (US\$ billions)	1,185.2

	Score (0–100) or value (hard data)	Rank
Global Innovation Index 2012 (out of 141).....	32.9	79
Innovation Output Sub-Index	25.9	86
Innovation Input Sub-Index	39.8	70
Innovation Efficiency Index	0.6	101
Global Innovation Index 2011 (out of 125)		81
GII 2012 rank among GII 2011 economies (125)		76

1	Institutions.....	55.9	72
1.1	Political environment	45.2	102
1.1.1	Political stability*.....	46.2	107 ○
1.1.2	Government effectiveness*.....	45.4	56
1.1.3	Press freedom*.....	44.1	122 ○
1.2	Regulatory environment.....	59.1	96
1.2.1	Regulatory quality*.....	58.8	62
1.2.2	Rule of law*.....	32.9	98
1.2.3	Cost of redundancy dismissal, salary weeks.....	22.0	101
1.3	Business environment	63.5	35 ●
1.3.1	Ease of starting a business*.....	63.3	52
1.3.2	Ease of resolving insolvency*.....	84.8	22 ●
1.3.3	Ease of paying taxes*.....	42.4	81
2	Human capital & research.....	31.8	81
2.1	Education.....	47.8	82
2.1.1	Current expenditure on education, % GNI	4.8	47
2.1.2	Public expenditure/pupil, % GDP/cap.....	16.1	85
2.1.3	School life expectancy, years.....	13.6	55
2.1.4	PISA scales in reading, maths, & science.....	419.9	49
2.1.5	Pupil-teacher ratio, secondary	17.6	84
2.2	Tertiary education	27.6	83
2.2.1	Tertiary enrolment, % gross.....	27.0	77
2.2.2	Graduates in science & engineering, %	25.6	22 ●
2.2.3	Tertiary inbound mobility, %.....	0.0	90 ○
2.2.4	Gross tertiary outbound enrolment, %	0.3	117 ○
2.3	Research & development (R&D).....	20.0	76
2.3.1	Researchers, headcounts/mn pop.	352.9	77
2.3.2	Gross expenditure on R&D, % GDP.....	0.4	69
2.3.3	Quality of scientific research institutions†	49.2	51
3	Infrastructure.....	38.4	50
3.1	Information & communication technologies (ICT).....	47.3	44
3.1.1	ICT access*.....	39.4	76
3.1.2	ICT use*.....	18.6	65
3.1.3	Government's online service*.....	73.2	28 ●
3.1.4	E-participation*.....	57.9	25 ●
3.2	General infrastructure	37.1	64
3.2.1	Electricity output, kWh/cap.....	2,471.1	66
3.2.2	Electricity consumption, kWh/cap.....	2,077.4	68
3.2.3	Quality of trade & transport infrastructure*.....	48.8	43
3.2.4	Gross capital formation, % GDP.....	25.0	43
3.3	Ecological sustainability	30.9	66
3.3.1	GDP/unit of energy use, 2000 PPP\$/kg oil eq.....	7.0	38 ●
3.3.2	Environmental performance*.....	49.1	81
3.3.3	ISO 14001 environmental certificates/bn PPP\$ GDP.....	0.5	78
4	Market sophistication	36.8	76
4.1	Credit	21.9	89
4.1.1	Ease of getting credit*.....	57.7	43
4.1.2	Domestic credit to private sector, % GDP.....	24.6	105
4.1.3	Microfinance gross loans, % GDP.....	0.2	64

4.2	Investment.....	26.7	65
4.2.1	Ease of protecting investors*.....	66.9	35
4.2.2	Market capitalization, % GDP.....	43.7	48
4.2.3	Total value of stocks traded, % GDP.....	10.4	49
4.2.4	Venture capital deals/tr PPP\$ GDP.....	1.8	64
4.3	Trade & competition	61.8	76
4.3.1	Applied tariff rate, weighted mean, %.....	6.1	91
4.3.2	Non-agricultural mkt access weighted tariff, %.....	0.1	23 ●
4.3.3	Imports of goods & services, % GDP.....	31.8	100
4.3.4	Exports of goods & services, % GDP.....	30.3	86
4.3.5	Intensity of local competition†	60.3	80
5	Business sophistication	36.1	87
5.1	Knowledge workers.....	51.1	53
5.1.1	Knowledge-intensive employment, %.....	18.4	76
5.1.2	Firms offering formal training, % firms.....	50.8	29 ●
5.1.3	R&D performed by business, %.....	47.4	35
5.1.4	R&D financed by business, %	45.1	33
5.1.5	GMAT mean score.....	505.1	72
5.1.6	GMAT test takers/mn pop. 20–34.....	68.6	65
5.2	Innovation linkages	28.0	110 ○
5.2.1	University/industry research collaboration†	50.7	42
5.2.2	State of cluster development†	48.1	42
5.2.3	R&D financed by abroad, %.....	1.4	78 ○
5.2.4	JV–strategic alliance deals/tr PPP\$ GDP	6.8	96
5.2.5	PCT patent filings with foreign inventor, %.....	19.7	82 ○
5.3	Knowledge absorption	29.4	98
5.3.1	Royalty & license fees payments/th GDP.....	0.5	89 ○
5.3.2	High-tech imports less re-imports, %	19.4	9 ●
5.3.3	Computer & comm. service imports, %.....	3.5	132 ○
5.3.4	FDI net inflows, % GDP.....	1.8	83
6	Knowledge & technology outputs	22.3	94
6.1	Knowledge creation.....	16.4	91
6.1.1	Domestic resident patent ap/bn PPP\$ GDP	0.6	75
6.1.2	PCT resident patent ap/bn PPP\$ GDP	0.1	61
6.1.3	Domestic res utility model ap/bn PPP\$ GDP.....	0.3	42
6.1.4	Scientific & technical articles/bn PPP\$ GDP.....	2.8	72
6.2	Knowledge impact	26.1	98
6.2.1	Growth rate of PPP\$ GDP/worker, %.....	3.2	48
6.2.2	New businesses/th pop. 15–64.....	0.6	76 ○
6.2.3	Computer software spending, % GDP.....	0.1	51
6.2.4	ISO 9001 quality certificates/bn PPP\$ GDP	2.9	82
6.3	Knowledge diffusion	24.3	76
6.3.1	Royalty & license fees receipts/th GDP.....	0.1	76
6.3.2	High-tech exports less re-exports, %.....	16.5	15 ●
6.3.3	Computer & comm. service exports, %	1.9	134 ○
6.3.4	FDI net outflows, % GDP	1.3	34 ●
7	Creative outputs	29.5	79
7.1	Creative intangibles.....	38.8	77
7.1.1	Domestic res trademark reg/bn PPP\$ GDP.....	28.6	53
7.1.2	Madrid resident trademark reg/bn PPP\$ GDP.....	n/a	n/a
7.1.3	ICT & business model creation†	57.3	49
7.1.4	ICT & organizational model creation†	45.7	77
7.2	Creative goods & services	16.3	81
7.2.1	Recreation & culture consumption, %.....	4.9	55
7.2.2	National feature films/mn pop. 15–69.....	0.9	68
7.2.3	Paid-for dailies, circulation/th pop. 15–69.....	64.5	74
7.2.4	Creative goods exports, %.....	1.3	60
7.2.5	Creative services exports, %.....	1.0	70
7.3	Online creativity.....	24.1	58
7.3.1	Generic top-level domains (TLDs)/th pop. 15–69.....	3.5	70
7.3.2	Country-code TLDs/th pop. 15–69.....	29.2	57
7.3.3	Wikipedia monthly edits/mn pop. 15–69.....	911.9	66
7.3.4	Video uploads on YouTube/pop. 15–69.....	59.1	59

Key indicators

Population (millions)	3.6
GDP per capita, PPP\$	3,383.0
GDP (US\$ billions)	7.2

	Score (0–100) or value (hard data)	Rank
Global Innovation Index 2012 (out of 141).....	39.2	50
Innovation Output Sub-Index	40.7	30
Innovation Input Sub-Index	37.8	79
Innovation Efficiency Index	1.1	3 ●
Global Innovation Index 2011 (out of 125)	39	
GII 2012 rank among GII 2011 economies (125)	48	

1	Institutions.....	52.6	78
1.1	Political environment	54.0	76
1.1.1	Political stability*.....	55.3	94
1.1.2	Government effectiveness*.....	24.5	107
1.1.3	Press freedom*.....	82.4	46
1.2	Regulatory environment.....	57.0	99
1.2.1	Regulatory quality*.....	48.8	79
1.2.2	Rule of law*.....	37.2	80
1.2.3	Cost of redundancy dismissal, salary weeks.....	22.6	102
1.3	Business environment	46.7	76
1.3.1	Ease of starting a business*.....	45.3	77
1.3.2	Ease of resolving insolvency*.....	37.4	88
1.3.3	Ease of paying taxes*.....	57.5	60
2	Human capital & research.....	39.9	55
2.1	Education.....	71.7	8 ●
2.1.1	Current expenditure on education, % GNI	7.7	5 ●
2.1.2	Public expenditure/pupil, % GDP/cap.....	46.8	2 ●
2.1.3	School life expectancy, years.....	11.8	90
2.1.4	PISA scales in reading, maths, & science.....	399.5	57
2.1.5	Pupil-teacher ratio, secondary	10.5	34
2.2	Tertiary education	32.4	71
2.2.1	Tertiary enrolment, % gross.....	38.1	62
2.2.2	Graduates in science & engineering, %	n/a	n/a
2.2.3	Tertiary inbound mobility, %.....	1.2	71
2.2.4	Gross tertiary outbound enrolment, %	3.7	22 ●
2.3	Research & development (R&D).....	15.7	100
2.3.1	Researchers, headcounts/mn pop.	988.4	57
2.3.2	Gross expenditure on R&D, % GDP.....	0.5	53
2.3.3	Quality of scientific research institutions†.....	27.8	117 ○
3	Infrastructure.....	29.8	85
3.1	Information & communication technologies (ICT).....	41.3	56
3.1.1	ICT access*.....	51.7	55
3.1.2	ICT use*	22.6	57
3.1.3	Government's online service*.....	51.6	61
3.1.4	E-participation*.....	39.5	38
3.2	General infrastructure	26.7	118
3.2.1	Electricity output, kWh/cap.....	1,009.0	91
3.2.2	Electricity consumption, kWh/cap.....	1,007.2	92
3.2.3	Quality of trade & transport infrastructure*.....	26.3	117 ○
3.2.4	Gross capital formation, % GDP.....	23.7	55
3.3	Ecological sustainability	21.4	106
3.3.1	GDP/unit of energy use, 2000 PPP\$/kg oil eq.....	3.5	94
3.3.2	Environmental performance*.....	45.2	103 ○
3.3.3	ISO 14001 environmental certificates/bn PPP\$ GDP	0.3	97
4	Market sophistication	33.1	96
4.1	Credit	18.9	96
4.1.1	Ease of getting credit*	27.0	88
4.1.2	Domestic credit to private sector, % GDP.....	33.3	88
4.1.3	Microfinance gross loans, % GDP.....	1.7	25

4.2	Investment.....	9.8	113
4.2.1	Ease of protecting investors*.....	29.4	91
4.2.2	Market capitalization, % GDP.....	n/a	n/a
4.2.3	Total value of stocks traded, % GDP.....	0.2	90
4.2.4	Venture capital deals/tr PPP\$ GDP.....	0.0	65 ○
4.3	Trade & competition	70.5	27
4.3.1	Applied tariff rate, weighted mean, %.....	2.5	50
4.3.2	Non-agricultural mkt access weighted tariff, %.....	0.4	46
4.3.3	Imports of goods & services, % GDP.....	78.2	13 ●
4.3.4	Exports of goods & services, % GDP.....	39.6	65
4.3.5	Intensity of local competition†	55.9	100
5	Business sophistication	33.4	104
5.1	Knowledge workers.....	41.1	84
5.1.1	Knowledge-intensive employment, %.....	28.2	47
5.1.2	Firms offering formal training, % firms.....	33.1	53
5.1.3	R&D performed by business, %.....	11.3	74
5.1.4	R&D financed by business, %	0.0	90 ○
5.1.5	GMAT mean score.....	542.9	46
5.1.6	GMAT test takers/mn pop. 20–34.....	102.0	51
5.2	Innovation linkages	28.9	103
5.2.1	University/industry research collaboration†	28.3	118 ○
5.2.2	State of cluster development†	24.4	125 ○
5.2.3	R&D financed by abroad, %.....	6.5	51
5.2.4	JV–strategic alliance deals/tr PPP\$ GDP	0.0	114 ○
5.2.5	PCT patent filings with foreign inventor, %.....	100.0	1 ●
5.3	Knowledge absorption	30.2	93
5.3.1	Royalty & license fees payments/th GDP.....	2.2	45
5.3.2	High-tech imports less re-imports, %	7.3	79
5.3.3	Computer & comm. service imports, %.....	23.7	89
5.3.4	FDI net inflows, % GDP.....	3.3	51
6	Knowledge & technology outputs	38.9	31
6.1	Knowledge creation.....	54.7	19 ●
6.1.1	Domestic resident patent ap/bn PPP\$ GDP	11.8	15 ●
6.1.2	PCT resident patent ap/bn PPP\$ GDP	0.1	73
6.1.3	Domestic res utility model ap/bn PPP\$ GDP.....	19.1	1 ●
6.1.4	Scientific & technical articles/bn PPP\$ GDP.....	7.8	42
6.2	Knowledge impact	34.9	62
6.2.1	Growth rate of PPP\$ GDP/worker, %.....	2.7	56
6.2.2	New businesses/th pop. 15–64.....	1.3	51
6.2.3	Computer software spending, % GDP.....	n/a	n/a
6.2.4	ISO 9001 quality certificates/bn PPP\$ GDP	7.4	55
6.3	Knowledge diffusion	27.0	67
6.3.1	Royalty & license fees receipts/th GDP.....	0.8	35
6.3.2	High-tech exports less re-exports, %.....	2.2	57
6.3.3	Computer & comm. service exports, %	33.8	55
6.3.4	FDI net outflows, % GDP	0.1	89
7	Creative outputs	42.5	32
7.1	Creative intangibles.....	61.9	9 ●
7.1.1	Domestic res trademark reg/bn PPP\$ GDP.....	180.8	4 ●
7.1.2	Madrid resident trademark reg/bn PPP\$ GDP	3.9	4 ●
7.1.3	ICT & business model creation†	42.0	107
7.1.4	ICT & organizational model creation†	37.4	104
7.2	Creative goods & services	22.9	66
7.2.1	Recreation & culture consumption, %.....	0.5	96 ○
7.2.2	National feature films/mn pop. 15–69.....	0.4	89 ○
7.2.3	Paid-for dailies, circulation/th pop. 15–69.....	147.4	38
7.2.4	Creative goods exports, %.....	4.6	15 ●
7.2.5	Creative services exports, %.....	3.5	46
7.3	Online creativity.....	23.5	60
7.3.1	Generic top-level domains (TLDs)/th pop. 15–69.....	2.0	85
7.3.2	Country-code TLDs/th pop. 15–69.....	23.0	68
7.3.3	Wikipedia monthly edits/mn pop. 15–69.....	1,482.0	55
7.3.4	Video uploads on YouTube/pop. 15–69.....	61.5	54

Mongolia

Key indicators

Population (millions)	2.8
GDP per capita, PPP\$	4,509.7
GDP (US\$ billions)	8.8

	Score (0–100) or value (hard data)	Rank
Global Innovation Index 2012 (out of 141).....	35.0	68
Innovation Output Sub-Index	27.1	79
Innovation Input Sub-Index	42.8	53
Innovation Efficiency Index	0.6	109
Global Innovation Index 2011 (out of 125)	68	68
GII 2012 rank among GII 2011 economies (125)	66	66

1	Institutions.....	58.2	63
1.1	Political environment	57.2	67
1.1.1	Political stability*.....	77.6	40
1.1.2	Government effectiveness*.....	24.8	105
1.1.3	Press freedom*.....	69.1	79
1.2	Regulatory environment.....	69.6	59
1.2.1	Regulatory quality*.....	44.6	92
1.2.2	Rule of law*.....	36.5	83
1.2.3	Cost of redundancy dismissal, salary weeks.....	8.7	23
1.3	Business environment	47.9	71
1.3.1	Ease of starting a business*.....	51.0	69
1.3.2	Ease of resolving insolvency*.....	21.5	110
1.3.3	Ease of paying taxes*.....	71.2	41
2	Human capital & research.....	31.8	80
2.1	Education.....	48.6	79
2.1.1	Current expenditure on education, % GNI	5.1	37
2.1.2	Public expenditure/pupil, % GDP/cap.....	16.7	82
2.1.3	School life expectancy, years.....	13.9	50
2.1.4	PISA scales in reading, maths, & science.....	n/a	n/a
2.1.5	Pupil-teacher ratio, secondary	21.1	97
2.2	Tertiary education	33.2	68
2.2.1	Tertiary enrolment, % gross.....	53.3	41
2.2.2	Graduates in science & engineering, %	17.1	66
2.2.3	Tertiary inbound mobility, %.....	0.6	85
2.2.4	Gross tertiary outbound enrolment, %	3.0	28
2.3	Research & development (R&D).....	13.7	112
2.3.1	Researchers, headcounts/mn pop.	644.6	66
2.3.2	Gross expenditure on R&D, % GDP.....	0.2	77
2.3.3	Quality of scientific research institutions†.....	31.2	107
3	Infrastructure.....	32.6	74
3.1	Information & communication technologies (ICT).....	41.0	57
3.1.1	ICT access*.....	36.0	86
3.1.2	ICT use*.....	8.6	92
3.1.3	Government's online service*.....	58.8	45
3.1.4	E-participation*.....	60.5	24
3.2	General infrastructure	38.6	59
3.2.1	Electricity output, kWh/cap.....	1,542.4	84
3.2.2	Electricity consumption, kWh/cap.....	1,432.0	83
3.2.3	Quality of trade & transport infrastructure*.....	23.5	126 ○
3.2.4	Gross capital formation, % GDP.....	40.8	3 ●
3.3	Ecological sustainability	18.2	116 ○
3.3.1	GDP/unit of energy use, 2000 PPP\$/kg oil eq.....	2.3	113 ○
3.3.2	Environmental performance*.....	45.4	102 ○
3.3.3	ISO 14001 environmental certificates/bn PPP\$ GDP.....	0.1	124 ○
4	Market sophistication	52.6	28
4.1	Credit	50.1	27
4.1.1	Ease of getting credit*.....	38.7	72
4.1.2	Domestic credit to private sector, % GDP.....	39.6	81
4.1.3	Microfinance gross loans, % GDP.....	14.8	1 ●

4.2	Investment.....	39.8	31
4.2.1	Ease of protecting investors*.....	76.2	27
4.2.2	Market capitalization, % GDP.....	18.0	81
4.2.3	Total value of stocks traded, % GDP.....	0.8	74
4.2.4	Venture capital deals/tr PPP\$ GDP.....	79.3	17 ●
4.3	Trade & competition	68.0	41
4.3.1	Applied tariff rate, weighted mean, %.....	5.1	80
4.3.2	Non-agricultural mkt access weighted tariff, %.....	0.4	50
4.3.3	Imports of goods & services, % GDP.....	62.4	33
4.3.4	Exports of goods & services, % GDP.....	54.7	33
4.3.5	Intensity of local competition†.....	58.0	92
5	Business sophistication	38.9	69
5.1	Knowledge workers.....	42.8	76
5.1.1	Knowledge-intensive employment, %.....	20.2	67
5.1.2	Firms offering formal training, % firms.....	61.2	11 ●
5.1.3	R&D performed by business, %.....	6.9	78 ○
5.1.4	R&D financed by business, %	3.6	78 ○
5.1.5	GMAT mean score.....	471.9	93
5.1.6	GMAT test takers/mn pop. 20–34.....	139.9	41
5.2	Innovation linkages	41.7	48
5.2.1	University/industry research collaboration†.....	36.8	94
5.2.2	State of cluster development†.....	26.3	122 ○
5.2.3	R&D financed by abroad, %.....	1.8	75
5.2.4	JV–strategic alliance deals/tr PPP\$ GDP.....	224.3	1 ●
5.2.5	PCT patent filings with foreign inventor, %.....	100.0	1 ●
5.3	Knowledge absorption	32.3	83
5.3.1	Royalty & license fees payments/th GDP.....	0.4	93
5.3.2	High-tech imports less re-imports, %	5.8	92
5.3.3	Computer & comm. service imports, %.....	20.8	98
5.3.4	FDI net inflows, % GDP.....	23.5	3 ●
6	Knowledge & technology outputs	22.7	90
6.1	Knowledge creation.....	49.4	24
6.1.1	Domestic resident patent ap/bn PPP\$ GDP.....	9.9	19
6.1.2	PCT resident patent ap/bn PPP\$ GDP.....	0.1	75
6.1.3	Domestic res utility model ap/bn PPP\$ GDP.....	11.5	1 ●
6.1.4	Scientific & technical articles/bn PPP\$ GDP.....	4.1	62
6.2	Knowledge impact	2.8	140 ○
6.2.1	Growth rate of PPP\$ GDP/worker, %.....	n/a	n/a
6.2.2	New businesses/th pop. 15–64.....	n/a	n/a
6.2.3	Computer software spending, % GDP.....	n/a	n/a
6.2.4	ISO 9001 quality certificates/bn PPP\$ GDP.....	0.2	133 ○
6.3	Knowledge diffusion	15.8	119 ○
6.3.1	Royalty & license fees receipts/th GDP.....	0.1	74
6.3.2	High-tech exports less re-exports, %.....	0.4	93
6.3.3	Computer & comm. service exports, %	8.9	124 ○
6.3.4	FDI net outflows, % GDP.....	0.8	46
7	Creative outputs	31.6	71
7.1	Creative intangibles.....	48.5	33 ●
7.1.1	Domestic res trademark reg/bn PPP\$ GDP.....	316.9	1 ●
7.1.2	Madrid resident trademark reg/bn PPP\$ GDP.....	0.2	47
7.1.3	ICT & business model creation†.....	44.9	91
7.1.4	ICT & organizational model creation†.....	45.4	79
7.2	Creative goods & services	10.6	98
7.2.1	Recreation & culture consumption, %.....	2.0	82
7.2.2	National feature films/mn pop. 15–69.....	7.9	12 ●
7.2.3	Paid-for dailies, circulation/th pop. 15–69.....	25.9	101
7.2.4	Creative goods exports, %.....	0.3	100
7.2.5	Creative services exports, %.....	0.1	101 ○
7.3	Online creativity.....	19.0	79
7.3.1	Generic top-level domains (TLDs)/th pop. 15–69.....	1.8	88
7.3.2	Country-code TLDs/th pop. 15–69.....	25.6	61
7.3.3	Wikipedia monthly edits/mn pop. 15–69.....	389.6	82
7.3.4	Video uploads on YouTube/pop. 15–69.....	46.5	86

Key indicators

Population (millions)	0.6
GDP per capita, PPP\$	11,228.2
GDP (US\$ billions)	4.2

	Score (0–100) or value (hard data)	Rank
Global Innovation Index 2012 (out of 141).....	40.1	45
Innovation Output Sub-Index	35.3	44
Innovation Input Sub-Index	45.0	48
Innovation Efficiency Index	0.8	50
Global Innovation Index 2011 (out of 125)	n/a	
GII 2012 rank among GII 2011 economies (125)	n/a	

1	Institutions.....	58.5	62
1.1	Political environment	62.5	57
1.1.1	Political stability*.....	77.5	41
1.1.2	Government effectiveness*.....	43.1	63
1.1.3	Press freedom*.....	66.9	84
1.2	Regulatory environment.....	54.4	104 ○
1.2.1	Regulatory quality*.....	50.2	75
1.2.2	Rule of law*.....	47.3	59
1.2.3	Cost of redundancy dismissal, salary weeks.....	28.1	123 ○
1.3	Business environment	58.7	52
1.3.1	Ease of starting a business*.....	72.6	38
1.3.2	Ease of resolving insolvency*.....	69.7	43
1.3.3	Ease of paying taxes*.....	33.8	93
2	Human capital & research.....	49.3	29 ●
2.1	Education.....	56.0	53
2.1.1	Current expenditure on education, % GNI	n/a	n/a
2.1.2	Public expenditure/pupil, % GDP/cap.....	n/a	n/a
2.1.3	School life expectancy, years.....	15.0	35
2.1.4	PISA scales in reading, maths, & science.....	403.8	54 ○
2.1.5	Pupil-teacher ratio, secondary	n/a	n/a
2.2	Tertiary education	63.2	5 ●
2.2.1	Tertiary enrolment, % gross.....	47.6	51
2.2.2	Graduates in science & engineering, %	n/a	n/a
2.2.3	Tertiary inbound mobility, %.....	n/a	n/a
2.2.4	Gross tertiary outbound enrolment, %	7.3	8 ●
2.3	Research & development (R&D).....	28.8	45
2.3.1	Researchers, headcounts/mn pop.	1,068.5	54
2.3.2	Gross expenditure on R&D, % GDP.....	1.1	31
2.3.3	Quality of scientific research institutions†.....	51.8	43
3	Infrastructure.....	34.0	68
3.1	Information & communication technologies (ICT).....	43.2	52
3.1.1	ICT access*.....	55.5	50
3.1.2	ICT use*	34.6	43
3.1.3	Government's online service*.....	51.0	64
3.1.4	E-participation*.....	31.6	47
3.2	General infrastructure	41.7	39
3.2.1	Electricity output, kWh/cap.....	n/a	n/a
3.2.2	Electricity consumption, kWh/cap.....	n/a	n/a
3.2.3	Quality of trade & transport infrastructure*.....	36.3	75
3.2.4	Gross capital formation, % GDP.....	22.8	65
3.3	Ecological sustainability	17.0	118 ○
3.3.1	GDP/unit of energy use, 2000 PPP\$/kg oil eq.....	n/a	n/a
3.3.2	Environmental performance*.....	n/a	n/a
3.3.3	ISO 14001 environmental certificates/bn PPP\$ GDP.....	2.2	41
4	Market sophistication	44.8	45
4.1	Credit	40.1	43
4.1.1	Ease of getting credit*	87.6	8 ●
4.1.2	Domestic credit to private sector, % GDP.....	67.0	51
4.1.3	Microfinance gross loans, % GDP.....	0.9	38

4.2	Investment.....	27.2	63
4.2.1	Ease of protecting investors*.....	76.2	27
4.2.2	Market capitalization, % GDP.....	90.0	18 ●
4.2.3	Total value of stocks traded, % GDP.....	0.8	76 ○
4.2.4	Venture capital deals/tr PPP\$ GDP.....	0.0	65 ○
4.3	Trade & competition	67.1	47
4.3.1	Applied tariff rate, weighted mean, %.....	3.5	57
4.3.2	Non-agricultural mkt access weighted tariff, %.....	0.0	5 ●
4.3.3	Imports of goods & services, % GDP.....	63.6	32 ●
4.3.4	Exports of goods & services, % GDP.....	35.6	76
4.3.5	Intensity of local competition†	50.5	117 ○
5	Business sophistication	38.4	73
5.1	Knowledge workers.....	39.0	91
5.1.1	Knowledge-intensive employment, %.....	35.9	31
5.1.2	Firms offering formal training, % firms.....	25.2	78 ○
5.1.3	R&D performed by business, %.....	5.2	79 ○
5.1.4	R&D financed by business, %	n/a	n/a
5.1.5	GMAT mean score.....	n/a	n/a
5.1.6	GMAT test takers/mn pop. 20–34.....	n/a	n/a
5.2	Innovation linkages	31.2	94
5.2.1	University/industry research collaboration†	44.7	60
5.2.2	State of cluster development†	33.3	104 ○
5.2.3	R&D financed by abroad, %.....	n/a	n/a
5.2.4	JV-strategic alliance deals/tr PPP\$ GDP	0.0	114 ○
5.2.5	PCT patent filings with foreign inventor, %.....	n/a	n/a
5.3	Knowledge absorption	45.0	32 ●
5.3.1	Royalty & license fees payments/th GDP.....	n/a	n/a
5.3.2	High-tech imports less re-imports, %	5.2	98 ○
5.3.3	Computer & comm. service imports, %.....	n/a	n/a
5.3.4	FDI net inflows, % GDP.....	18.5	7 ●
6	Knowledge & technology outputs	26.0	71
6.1	Knowledge creation.....	26.1	60
6.1.1	Domestic resident patent ap/bn PPP\$ GDP	3.4	43
6.1.2	PCT resident patent ap/bn PPP\$ GDP.....	0.3	53
6.1.3	Domestic res utility model ap/bn PPP\$ GDP.....	n/a	n/a
6.1.4	Scientific & technical articles/bn PPP\$ GDP.....	1.6	93
6.2	Knowledge impact	46.4	28 ●
6.2.1	Growth rate of PPP\$ GDP/worker, %.....	6.6	8 ●
6.2.2	New businesses/th pop. 15–64.....	0.9	63
6.2.3	Computer software spending, % GDP.....	n/a	n/a
6.2.4	ISO 9001 quality certificates/bn PPP\$ GDP	12.6	42
6.3	Knowledge diffusion	5.5	134 ○
6.3.1	Royalty & license fees receipts/th GDP.....	n/a	n/a
6.3.2	High-tech exports less re-exports, %.....	2.1	60
6.3.3	Computer & comm. service exports, %	n/a	n/a
6.3.4	FDI net outflows, % GDP	n/a	n/a
7	Creative outputs	44.6	25 ●
7.1	Creative intangibles.....	44.9	49
7.1.1	Domestic res trademark reg/bn PPP\$ GDP.....	n/a	n/a
7.1.2	Madrid resident trademark reg/bn PPP\$ GDP.....	0.7	28
7.1.3	ICT & business model creation†	58.3	44
7.1.4	ICT & organizational model creation†	60.7	22 ●
7.2	Creative goods & services	17.3	79
7.2.1	Recreation & culture consumption, %.....	3.3	68
7.2.2	National feature films/mn pop. 15–69.....	n/a	n/a
7.2.3	Paid-for dailies, circulation/th pop. 15–69.....	137.1	44
7.2.4	Creative goods exports, %.....	0.8	81
7.2.5	Creative services exports, %.....	4.6	42
7.3	Online creativity.....	71.3	10 ●
7.3.1	Generic top-level domains (TLDs)/th pop. 15–69.....	100.0	1 ●
7.3.2	Country-code TLDs/th pop. 15–69.....	100.0	1 ●
7.3.3	Wikipedia monthly edits/mn pop. 15–69.....	4,413.8	33
7.3.4	Video uploads on YouTube/pop. 15–69.....	62.8	47

Key indicators

Population (millions)	32.2
GDP per capita, PPP\$	5,069.8
GDP (US\$ billions)	101.8

	Score (0–100) or value (hard data)	Rank
Global Innovation Index 2012 (out of 141).....	30.7	88
Innovation Output Sub-Index	24.7	90
Innovation Input Sub-Index	36.6	88
Innovation Efficiency Index	0.7	94
Global Innovation Index 2011 (out of 125)		94
GII 2012 rank among GII 2011 economies (125)		83

1	Institutions.....	50.4	85
1.1	Political environment	46.6	92
1.1.1	Political stability*.....	52.8	97
1.1.2	Government effectiveness*.....	36.5	78
1.1.3	Press freedom*.....	50.5	112 ○
1.2	Regulatory environment.....	60.4	90
1.2.1	Regulatory quality*.....	48.9	78
1.2.2	Rule of law*.....	42.8	67
1.2.3	Cost of redundancy dismissal, salary weeks.....	20.7	91
1.3	Business environment	44.1	83
1.3.1	Ease of starting a business*.....	53.2	66
1.3.2	Ease of resolving insolvency*.....	60.4	56
1.3.3	Ease of paying taxes*.....	18.7	113 ○

2	Human capital & research.....	36.7	64
2.1	Education.....	48.7	78
2.1.1	Current expenditure on education, % GNI	5.2	36 ●
2.1.2	Public expenditure/pupil, % GDP/cap.....	24.1	32 ●
2.1.3	School life expectancy, years.....	10.4	115 ○
2.1.4	PISA scales in reading, maths, & science.....	n/a	n/a
2.1.5	Pupil-teacher ratio, secondary	18.7	93
2.2	Tertiary education	41.8	46 ●
2.2.1	Tertiary enrolment, % gross.....	13.2	98
2.2.2	Graduates in science & engineering, %	34.9	5 ●
2.2.3	Tertiary inbound mobility, %.....	1.9	56
2.2.4	Gross tertiary outbound enrolment, %	1.3	63
2.3	Research & development (R&D).....	19.5	79
2.3.1	Researchers, headcounts/mn pop.	934.7	58
2.3.2	Gross expenditure on R&D, % GDP.....	0.6	48
2.3.3	Quality of scientific research institutions†	37.2	93

3	Infrastructure.....	32.6	73
3.1	Information & communication technologies (ICT).....	21.5	100
3.1.1	ICT access*.....	40.5	74
3.1.2	ICT use*.....	20.5	62
3.1.3	Government's online service*.....	24.8	126 ○
3.1.4	E-participation*.....	0.0	127 ○
3.2	General infrastructure	36.6	66
3.2.1	Electricity output, kWh/cap.....	679.1	99
3.2.2	Electricity consumption, kWh/cap.....	747.1	97
3.2.3	Quality of trade & transport infrastructure*.....	33.3	91
3.2.4	Gross capital formation, % GDP.....	35.1	8 ●
3.3	Ecological sustainability	39.8	41 ●
3.3.1	GDP/unit of energy use, 2000 PPP\$/kg oil eq.....	11.6	5 ●
3.3.2	Environmental performance*.....	45.8	100 ○
3.3.3	ISO 14001 environmental certificates/bn PPP\$ GDP	0.4	86

4	Market sophistication	33.8	93
4.1	Credit	18.9	95
4.1.1	Ease of getting credit*.....	27.0	88
4.1.2	Domestic credit to private sector, % GDP.....	68.8	49 ●
4.1.3	Microfinance gross loans, % GDP.....	0.6	42

4.2	Investment.....	21.6	79
4.2.1	Ease of protecting investors*.....	7.1	123 ○
4.2.2	Market capitalization, % GDP.....	75.8	28 ●
4.2.3	Total value of stocks traded, % GDP.....	11.8	48
4.2.4	Venture capital deals/tr PPP\$ GDP.....	12.3	42 ●

4.3	Trade & competition	60.9	82
4.3.1	Applied tariff rate, weighted mean, %.....	7.1	101
4.3.2	Non-agricultural mkt access weighted tariff, %.....	1.0	71
4.3.3	Imports of goods & services, % GDP.....	42.9	65
4.3.4	Exports of goods & services, % GDP.....	33.0	81
4.3.5	Intensity of local competition†	68.3	51

5	Business sophistication	29.5	124 ○
5.1	Knowledge workers.....	29.6	115 ○
5.1.1	Knowledge-intensive employment, %.....	6.8	100 ○
5.1.2	Firms offering formal training, % firms.....	24.7	82
5.1.3	R&D performed by business, %.....	22.0	63
5.1.4	R&D financed by business, %	22.7	60
5.1.5	GMAT mean score.....	517.3	61
5.1.6	GMAT test takers/mn pop. 20–34.....	40.6	94

5.2	Innovation linkages	27.2	113 ○
5.2.1	University/industry research collaboration†	36.5	99
5.2.2	State of cluster development†	47.1	44 ●
5.2.3	R&D financed by abroad, %.....	2.6	72
5.2.4	JV–strategic alliance deals/tr PPP\$ GDP	14.9	76
5.2.5	PCT patent filings with foreign inventor, %.....	33.3	61

5.3	Knowledge absorption	31.8	89
5.3.1	Royalty & license fees payments/th GDP.....	0.3	97 ○
5.3.2	High-tech imports less re-imports, %	n/a	n/a
5.3.3	Computer & comm. service imports, %.....	30.4	66
5.3.4	FDI net inflows, % GDP.....	1.4	99

6	Knowledge & technology outputs	24.5	80
6.1	Knowledge creation.....	20.4	76
6.1.1	Domestic resident patent ap/bn PPP\$ GDP	1.0	69
6.1.2	PCT resident patent ap/bn PPP\$ GDP.....	0.1	66
6.1.3	Domestic res utility model ap/bn PPP\$ GDP.....	n/a	n/a
6.1.4	Scientific & technical articles/bn PPP\$ GDP.....	2.7	74

6.2	Knowledge impact	25.5	100
6.2.1	Growth rate of PPP\$ GDP/worker, %.....	2.3	63
6.2.2	New businesses/th pop. 15–64.....	1.3	53
6.2.3	Computer software spending, % GDP.....	0.2	45
6.2.4	ISO 9001 quality certificates/bn PPP\$ GDP	2.7	85

6.3	Knowledge diffusion	27.6	63
6.3.1	Royalty & license fees receipts/th GDP.....	0.0	80
6.3.2	High-tech exports less re-exports, %.....	n/a	n/a
6.3.3	Computer & comm. service exports, %	24.8	74
6.3.4	FDI net outflows, % GDP.....	0.6	48

7	Creative outputs	24.9	102
7.1	Creative intangibles.....	38.4	80
7.1.1	Domestic res trademark reg/bn PPP\$ GDP.....	95.7	11 ●
7.1.2	Madrid resident trademark reg/bn PPP\$ GDP.....	0.5	33
7.1.3	ICT & business model creation†	44.1	98
7.1.4	ICT & organizational model creation†	53.4	49

7.2	Creative goods & services	7.2	116 ○
7.2.1	Recreation & culture consumption, %.....	1.2	93 ○
7.2.2	National feature films/mn pop. 15–69.....	0.6	75
7.2.3	Paid-for dailies, circulation/th pop. 15–69.....	15.8	107
7.2.4	Creative goods exports, %.....	1.1	68
7.2.5	Creative services exports, %.....	0.9	72

7.3	Online creativity.....	15.7	93
7.3.1	Generic top-level domains (TLDs)/th pop. 15–69.....	1.0	98
7.3.2	Country-code TLDs/th pop. 15–69.....	15.0	83
7.3.3	Wikipedia monthly edits/mn pop. 15–69.....	228.6	97
7.3.4	Video uploads on YouTube/pop. 15–69.....	45.5	89

Key indicators

Population (millions)	22.0
GDP per capita, PPP\$	1,085.9
GDP (US\$ billions)	12.1

	Score (0–100) or value (hard data)	Rank
Global Innovation Index 2012 (out of 141).....	26.3	110
Innovation Output Sub-Index	21.0	115
Innovation Input Sub-Index	31.7	107
Innovation Efficiency Index	0.7	98
Global Innovation Index 2011 (out of 125)	n/a	
GII 2012 rank among GII 2011 economies (125)	n/a	

1	Institutions.....	46.4	98
1.1	Political environment	60.2	61
1.1.1	Political stability*.....	73.1	51 ●
1.1.2	Government effectiveness*.....	28.7	94
1.1.3	Press freedom*.....	78.7	54
1.2	Regulatory environment.....	36.4	132
1.2.1	Regulatory quality*.....	42.5	96
1.2.2	Rule of law*.....	34.5	92
1.2.3	Cost of redundancy dismissal, salary weeks.....	41.1	132 ○
1.3	Business environment	42.6	89
1.3.1	Ease of starting a business*.....	64.0	51 ●
1.3.2	Ease of resolving insolvency*.....	17.2	116
1.3.3	Ease of paying taxes*.....	46.7	75
2	Human capital & research.....	19.0	129
2.1	Education.....	31.7	122
2.1.1	Current expenditure on education, % GNI	4.0	74
2.1.2	Public expenditure/pupil, % GDP/cap.....	23.4	41 ●
2.1.3	School life expectancy, years.....	9.2	121
2.1.4	PISA scales in reading, maths, & science.....	n/a	n/a
2.1.5	Pupil-teacher ratio, secondary	35.0	127 ○
2.2	Tertiary education	12.0	120
2.2.1	Tertiary enrolment, % gross.....	1.5	132 ○
2.2.2	Graduates in science & engineering, %	12.1	92
2.2.3	Tertiary inbound mobility, %.....	n/a	n/a
2.2.4	Gross tertiary outbound enrolment, %	0.1	134 ○
2.3	Research & development (R&D).....	13.4	114
2.3.1	Researchers, headcounts/mn pop.	23.9	119 ○
2.3.2	Gross expenditure on R&D, % GDP.....	0.2	84
2.3.3	Quality of scientific research institutions†.....	35.6	98
3	Infrastructure.....	21.5	121
3.1	Information & communication technologies (ICT).....	17.1	113
3.1.1	ICT access*.....	16.7	130
3.1.2	ICT use*	1.9	127
3.1.3	Government's online service*.....	36.6	99
3.1.4	E-participation*.....	13.2	83
3.2	General infrastructure	25.9	121
3.2.1	Electricity output, kWh/cap.....	801.6	96
3.2.2	Electricity consumption, kWh/cap.....	452.7	106
3.2.3	Quality of trade & transport infrastructure*.....	26.0	118
3.2.4	Gross capital formation, % GDP.....	23.7	54
3.3	Ecological sustainability	21.3	107
3.3.1	GDP/unit of energy use, 2000 PPP\$/kg oil eq.....	3.3	99
3.3.2	Environmental performance*.....	47.8	86
3.3.3	ISO 14001 environmental certificates/bn PPP\$ GDP.....	0.1	117
4	Market sophistication	33.3	95
4.1	Credit	9.0	122
4.1.1	Ease of getting credit*	15.3	112
4.1.2	Domestic credit to private sector, % GDP.....	25.8	102
4.1.3	Microfinance gross loans, % GDP.....	0.4	48

4.2	Investment.....	33.5	46 ●
4.2.1	Ease of protecting investors*.....	66.9	35 ●
4.2.2	Market capitalization, % GDP.....	n/a	n/a
4.2.3	Total value of stocks traded, % GDP.....	n/a	n/a
4.2.4	Venture capital deals/tr PPP\$ GDP.....	0.0	65 ○
4.3	Trade & competition	57.3	102
4.3.1	Applied tariff rate, weighted mean, %.....	4.8	75
4.3.2	Non-agricultural mkt access weighted tariff, %.....	1.1	77
4.3.3	Imports of goods & services, % GDP.....	43.2	64
4.3.4	Exports of goods & services, % GDP.....	25.3	109
4.3.5	Intensity of local competition†	48.3	124
5	Business sophistication	38.2	74
5.1	Knowledge workers.....	16.1	141 ○
5.1.1	Knowledge-intensive employment, %.....	n/a	n/a
5.1.2	Firms offering formal training, % firms.....	22.1	86
5.1.3	R&D performed by business, %.....	n/a	n/a
5.1.4	R&D financed by business, %	n/a	n/a
5.1.5	GMAT mean score.....	398.2	130
5.1.6	GMAT test takers/mn pop. 20–34.....	1.3	140 ○
5.2	Innovation linkages	58.1	9 ●
5.2.1	University/industry research collaboration†	46.5	49
5.2.2	State of cluster development†	34.5	98
5.2.3	R&D financed by abroad, %.....	64.3	1 ●
5.2.4	JV–strategic alliance deals/tr PPP\$ GDP	75.3	20 ●
5.2.5	PCT patent filings with foreign inventor, %.....	n/a	n/a
5.3	Knowledge absorption	40.5	51 ●
5.3.1	Royalty & license fees payments/th GDP.....	0.4	92
5.3.2	High-tech imports less re-imports, %	n/a	n/a
5.3.3	Computer & comm. service imports, %.....	41.1	33 ●
5.3.4	FDI net inflows, % GDP.....	8.2	19 ●
6	Knowledge & technology outputs	23.3	86
6.1	Knowledge creation.....	3.0	130
6.1.1	Domestic resident patent ap/bn PPP\$ GDP	1.0	68
6.1.2	PCT resident patent ap/bn PPP\$ GDP.....	n/a	n/a
6.1.3	Domestic res utility model ap/bn PPP\$ GDP.....	0.1	56
6.1.4	Scientific & technical articles/bn PPP\$ GDP.....	1.4	99
6.2	Knowledge impact	35.5	60
6.2.1	Growth rate of PPP\$ GDP/worker, %.....	4.2	28 ●
6.2.2	New businesses/th pop. 15–64.....	n/a	n/a
6.2.3	Computer software spending, % GDP.....	n/a	n/a
6.2.4	ISO 9001 quality certificates/bn PPP\$ GDP	0.6	121
6.3	Knowledge diffusion	31.5	49 ●
6.3.1	Royalty & license fees receipts/th GDP.....	0.0	100
6.3.2	High-tech exports less re-exports, %.....	n/a	n/a
6.3.3	Computer & comm. service exports, %	34.7	52
6.3.4	FDI net outflows, % GDP	0.0	103
7	Creative outputs	18.7	125
7.1	Creative intangibles.....	27.8	120
7.1.1	Domestic res trademark reg/bn PPP\$ GDP.....	29.1	50
7.1.2	Madrid resident trademark reg/bn PPP\$ GDP.....	0.4	39
7.1.3	ICT & business model creation†	42.8	102
7.1.4	ICT & organizational model creation†	47.0	72
7.2	Creative goods & services	15.8	83
7.2.1	Recreation & culture consumption, %.....	n/a	n/a
7.2.2	National feature films/mn pop. 15–69.....	0.1	99 ○
7.2.3	Paid-for dailies, circulation/th pop. 15–69.....	1.5	134 ○
7.2.4	Creative goods exports, %.....	0.0	130 ○
7.2.5	Creative services exports, %.....	13.8	10 ●
7.3	Online creativity.....	3.3	136 ○
7.3.1	Generic top-level domains (TLDs)/th pop. 15–69.....	0.0	135 ○
7.3.2	Country-code TLDs/th pop. 15–69.....	2.0	115
7.3.3	Wikipedia monthly edits/mn pop. 15–69.....	19.8	119
7.3.4	Video uploads on YouTube/pop. 15–69.....	10.9	132

Namibia

Key indicators

Population (millions)	2.1
GDP per capita, PPP\$	7,276.4
GDP (US\$ billions)	13.0

	Score (0–100) or value (hard data)	Rank
Global Innovation Index 2012 (out of 141).....	34.1	73
Innovation Output Sub-Index	25.9	87
Innovation Input Sub-Index	42.4	56
Innovation Efficiency Index	0.6	120
Global Innovation Index 2011 (out of 125)		78
GII 2012 rank among GII 2011 economies (125)		71
1 Institutions.....	65.6	50
1.1 Political environment	73.9	37
1.1.1 Political stability*.....	83.5	29 ●
1.1.2 Government effectiveness*.....	43.6	60
1.1.3 Press freedom*.....	94.6	19 ●
1.2 Regulatory environment.....	75.6	42
1.2.1 Regulatory quality*.....	55.3	70
1.2.2 Rule of law*.....	53.8	50
1.2.3 Cost of redundancy dismissal, salary weeks	9.7	33
1.3 Business environment	47.2	74
1.3.1 Ease of starting a business*.....	27.3	102
1.3.2 Ease of resolving insolvency*.....	66.9	47
1.3.3 Ease of paying taxes*.....	47.4	74
2 Human capital & research.....	38.1	59
2.1 Education.....	52.8	65
2.1.1 Current expenditure on education, % GNI	8.0	4 ●
2.1.2 Public expenditure/pupil, % GDP/cap.....	19.9	59
2.1.3 School life expectancy, years.....	11.8	91
2.1.4 PISA scales in reading, maths, & science	n/a	n/a
2.1.5 Pupil-teacher ratio, secondary	24.6	110
2.2 Tertiary education	22.1	96
2.2.1 Tertiary enrolment, % gross.....	9.0	108
2.2.2 Graduates in science & engineering, %	2.6	104 ○
2.2.3 Tertiary inbound mobility, %.....	10.2	16 ●
2.2.4 Gross tertiary outbound enrolment, %	3.4	26 ●
2.3 Research & development (R&D).....	39.3	32 ●
2.3.1 Researchers, headcounts/mn pop.	n/a	n/a
2.3.2 Gross expenditure on R&D, % GDP.....	n/a	n/a
2.3.3 Quality of scientific research institutions†	39.3	80
3 Infrastructure.....	27.0	100
3.1 Information & communication technologies (ICT)	16.1	117
3.1.1 ICT access*.....	26.9	103
3.1.2 ICT use*.....	4.9	107
3.1.3 Government's online service*.....	30.1	116
3.1.4 E-participation*.....	2.6	115 ○
3.2 General infrastructure	24.2	127 ○
3.2.1 Electricity output, kWh/cap.....	828.3	95
3.2.2 Electricity consumption, kWh/cap.....	1,627.8	78
3.2.3 Quality of trade & transport infrastructure*	17.8	135 ○
3.2.4 Gross capital formation, % GDP.....	23.5	56
3.3 Ecological sustainability	40.6	40
3.3.1 GDP/unit of energy use, 2000 PPP\$/kg oil eq.....	11.0	9 ●
3.3.2 Environmental performance*.....	50.7	75
3.3.3 ISO 14001 environmental certificates/bn PPP\$ GDP	0.6	72
4 Market sophistication	42.8	53
4.1 Credit	30.4	68
4.1.1 Ease of getting credit*.....	77.4	21 ●
4.1.2 Domestic credit to private sector, % GDP	45.6	70
4.1.3 Microfinance gross loans, % GDP	0.0	87 ○

4.2 Investment.....	30.7	53
4.2.1 Ease of protecting investors*.....	46.7	60
4.2.2 Market capitalization, % GDP.....	9.7	93 ○
4.2.3 Total value of stocks traded, % GDP	0.2	95 ○
4.2.4 Venture capital deals/tr PPP\$ GDP.....	64.3	20 ●
4.3 Trade & competition	67.3	44
4.3.1 Applied tariff rate, weighted mean, %.....	1.8	39
4.3.2 Non-agricultural mkt access weighted tariff, %.....	0.6	58
4.3.3 Imports of goods & services, % GDP	37.8	78
4.3.4 Exports of goods & services, % GDP	38.9	67
4.3.5 Intensity of local competition†	59.6	83
5 Business sophistication	38.8	71
5.1 Knowledge workers.....	38.3	94
5.1.1 Knowledge-intensive employment, %.....	16.9	83
5.1.2 Firms offering formal training, % firms.....	44.5	38
5.1.3 R&D performed by business, %.....	n/a	n/a
5.1.4 R&D financed by business, %	n/a	n/a
5.1.5 GMAT mean score.....	416.2	121 ○
5.1.6 GMAT test takers/mn pop. 20–34.....	25.6	107
5.2 Innovation linkages	45.6	75 ●
5.2.1 University/industry research collaboration†	41.4	34
5.2.2 State of cluster development†	37.8	83
5.2.3 R&D financed by abroad, %.....	n/a	n/a
5.2.4 JV–strategic alliance deals/tr PPP\$ GDP	25.7	56
5.2.5 PCT patent filings with foreign inventor, %.....	100.0	1 ●
5.3 Knowledge absorption	32.4	82
5.3.1 Royalty & license fees payments/th GDP.....	0.7	82
5.3.2 High-tech imports less re-imports, %	5.0	104 ○
5.3.3 Computer & comm. service imports, %.....	40.9	34
5.3.4 FDI net inflows, % GDP.....	7.0	25 ●
6 Knowledge & technology outputs	24.8	79
6.1 Knowledge creation.....	39.1	33 ●
6.1.1 Domestic resident patent ap/bn PPP\$ GDP	n/a	n/a
6.1.2 PCT resident patent ap/bn PPP\$ GDP	1.2	30
6.1.3 Domestic res utility model ap/bn PPP\$ GDP	n/a	n/a
6.1.4 Scientific & technical articles/bn PPP\$ GDP	1.0	115
6.2 Knowledge impact	21.6	113
6.2.1 Growth rate of PPP\$ GDP/worker, %.....	n/a	n/a
6.2.2 New businesses/th pop. 15–64.....	n/a	n/a
6.2.3 Computer software spending, % GDP.....	n/a	n/a
6.2.4 ISO 9001 quality certificates/bn PPP\$ GDP	1.6	100
6.3 Knowledge diffusion	13.8	124 ○
6.3.1 Royalty & license fees receipts/th GDP.....	0.0	105 ○
6.3.2 High-tech exports less re-exports, %.....	0.5	88
6.3.3 Computer & comm. service exports, %	3.8	130 ○
6.3.4 FDI net outflows, % GDP	0.0	94
7 Creative outputs	26.9	95
7.1 Creative intangibles.....	43.8	56
7.1.1 Domestic res trademark reg/bn PPP\$ GDP	n/a	n/a
7.1.2 Madrid resident trademark reg/bn PPP\$ GDP	n/a	n/a
7.1.3 ICT & business model creation†	42.1	106
7.1.4 ICT & organizational model creation†	45.4	78
7.2 Creative goods & services	7.7	113
7.2.1 Recreation & culture consumption, %.....	n/a	n/a
7.2.2 National feature films/mn pop. 15–69.....	0.8	70
7.2.3 Paid-for dailies, circulation/th pop. 15–69.....	40.3	88
7.2.4 Creative goods exports, %.....	1.1	67
7.2.5 Creative services exports, %.....	0.6	85
7.3 Online creativity.....	12.2	103
7.3.1 Generic top-level domains (TLDs)/th pop. 15–69.....	7.5	50
7.3.2 Country-code TLDs/th pop. 15–69.....	2.0	117
7.3.3 Wikipedia monthly edits/mn pop. 15–69.....	237.5	95
7.3.4 Video uploads on YouTube/pop. 15–69.....	38.2	100

Key indicators

Population (millions)	28.5
GDP per capita, PPP\$	1,328.1
GDP (US\$ billions)	18.3

	Score (0–100) or value (hard data)	Rank
Global Innovation Index 2012 (out of 141).....	26.0	113
Innovation Output Sub-Index	24.0	95
Innovation Input Sub-Index	28.0	127
Innovation Efficiency Index	0.9	23 ●
Global Innovation Index 2011 (out of 125)	n/a	
GII 2012 rank among GII 2011 economies (125)	n/a	

1	Institutions.....	41.3	110
1.1	Political environment	37.5	123
1.1.1	Political stability*.....	24.6	136 ○
1.1.2	Government effectiveness*.....	20.8	117
1.1.3	Press freedom*.....	67.1	83
1.2	Regulatory environment.....	44.4	127
1.2.1	Regulatory quality*.....	32.9	122
1.2.2	Rule of law*.....	20.7	124
1.2.3	Cost of redundancy dismissal, salary weeks.....	27.2	115
1.3	Business environment	41.9	91
1.3.1	Ease of starting a business*.....	46.0	76
1.3.2	Ease of resolving insolvency*.....	28.0	101
1.3.3	Ease of paying taxes*.....	51.7	68
2	Human capital & research.....	20.4	124
2.1	Education.....	24.6	132
2.1.1	Current expenditure on education, % GNI.....	4.2	67 ●
2.1.2	Public expenditure/pupil, % GDP/cap.....	13.0	95
2.1.3	School life expectancy, years.....	8.9	124
2.1.4	PISA scales in reading, maths, & science.....	n/a	n/a
2.1.5	Pupil-teacher ratio, secondary.....	36.9	129 ○
2.2	Tertiary education	26.9	85
2.2.1	Tertiary enrolment, % gross.....	5.6	119
2.2.2	Graduates in science & engineering, %.....	23.2	37 ●
2.2.3	Tertiary inbound mobility, %.....	0.0	90 ○
2.2.4	Gross tertiary outbound enrolment, %.....	2.8	30 ●
2.3	Research & development (R&D).....	9.6	127
2.3.1	Researchers, headcounts/mn pop.....	117.4	98
2.3.2	Gross expenditure on R&D, % GDP.....	n/a	n/a
2.3.3	Quality of scientific research institutions†.....	18.4	129 ○
3	Infrastructure.....	23.8	110
3.1	Information & communication technologies (ICT).....	12.8	128
3.1.1	ICT access*.....	17.5	129
3.1.2	ICT use*.....	2.5	125
3.1.3	Government's online service*.....	28.8	122
3.1.4	E-participation*.....	2.6	115
3.2	General infrastructure	30.9	97
3.2.1	Electricity output, kWh/cap.....	111.7	120 ○
3.2.2	Electricity consumption, kWh/cap.....	91.3	121 ○
3.2.3	Quality of trade & transport infrastructure*.....	20.0	132 ○
3.2.4	Gross capital formation, % GDP.....	34.7	10 ●
3.3	Ecological sustainability	27.8	84
3.3.1	GDP/unit of energy use, 2000 PPP\$/kg oil eq.....	4.5	81
3.3.2	Environmental performance*.....	58.0	37 ●
3.3.3	ISO 14001 environmental certificates/bn PPP\$ GDP.....	0.3	101
4	Market sophistication	29.9	111
4.1	Credit	26.5	82
4.1.1	Ease of getting credit*.....	50.4	62
4.1.2	Domestic credit to private sector, % GDP.....	55.6	57 ●
4.1.3	Microfinance gross loans, % GDP.....	1.0	37 ●

4.2	Investment.....	14.5	101
4.2.1	Ease of protecting investors*.....	46.7	60
4.2.2	Market capitalization, % GDP.....	30.8	61
4.2.3	Total value of stocks traded, % GDP.....	0.6	80
4.2.4	Venture capital deals/tr PPP\$ GDP.....	0.0	65 ○
4.3	Trade & competition	48.6	126
4.3.1	Applied tariff rate, weighted mean, %.....	12.1	130
4.3.2	Non-agricultural mkt access weighted tariff, %.....	0.3	44 ●
4.3.3	Imports of goods & services, % GDP.....	37.1	81
4.3.4	Exports of goods & services, % GDP.....	9.8	141 ○
4.3.5	Intensity of local competition†.....	50.5	119
5	Business sophistication	24.8	136
5.1	Knowledge workers.....	20.9	132
5.1.1	Knowledge-intensive employment, %.....	4.8	101
5.1.2	Firms offering formal training, % firms.....	8.8	104 ○
5.1.3	R&D performed by business, %.....	n/a	n/a
5.1.4	R&D financed by business, %.....	n/a	n/a
5.1.5	GMAT mean score.....	471.7	95
5.1.6	GMAT test takers/mn pop. 20–34.....	68.0	66 ●
5.2	Innovation linkages	25.7	121
5.2.1	University/industry research collaboration†.....	26.4	123
5.2.2	State of cluster development†.....	36.5	91
5.2.3	R&D financed by abroad, %.....	n/a	n/a
5.2.4	JV–strategic alliance deals/tr PPP\$ GDP.....	4.4	105
5.2.5	PCT patent filings with foreign inventor, %.....	n/a	n/a
5.3	Knowledge absorption	27.8	106
5.3.1	Royalty & license fees payments/th GDP.....	n/a	n/a
5.3.2	High-tech imports less re-imports, %.....	7.8	74
5.3.3	Computer & comm. service imports, %.....	11.6	119
5.3.4	FDI net inflows, % GDP.....	0.3	126
6	Knowledge & technology outputs	13.8	135
6.1	Knowledge creation.....	5.3	120
6.1.1	Domestic resident patent ap/bn PPP\$ GDP.....	n/a	n/a
6.1.2	PCT resident patent ap/bn PPP\$ GDP.....	n/a	n/a
6.1.3	Domestic res utility model ap/bn PPP\$ GDP.....	n/a	n/a
6.1.4	Scientific & technical articles/bn PPP\$ GDP.....	1.7	91
6.2	Knowledge impact	20.5	118
6.2.1	Growth rate of PPP\$ GDP/worker, %.....	n/a	n/a
6.2.2	New businesses/th pop. 15–64.....	n/a	n/a
6.2.3	Computer software spending, % GDP.....	n/a	n/a
6.2.4	ISO 9001 quality certificates/bn PPP\$ GDP.....	1.5	102
6.3	Knowledge diffusion	15.7	120
6.3.1	Royalty & license fees receipts/th GDP.....	n/a	n/a
6.3.2	High-tech exports less re-exports, %.....	0.5	87
6.3.3	Computer & comm. service exports, %.....	24.6	75
6.3.4	FDI net outflows, % GDP.....	n/a	n/a
7	Creative outputs	34.2	61
7.1	Creative intangibles.....	29.0	116
7.1.1	Domestic res trademark reg/bn PPP\$ GDP.....	20.7	63
7.1.2	Madrid resident trademark reg/bn PPP\$ GDP.....	n/a	n/a
7.1.3	ICT & business model creation†.....	40.8	112
7.1.4	ICT & organizational model creation†.....	36.5	109
7.2	Creative goods & services	68.8	2
7.2.1	Recreation & culture consumption, %.....	n/a	n/a
7.2.2	National feature films/mn pop. 15–69.....	n/a	n/a
7.2.3	Paid-for dailies, circulation/th pop. 15–69.....	39.1	89
7.2.4	Creative goods exports, %.....	12.9	1 ●
7.2.5	Creative services exports, %.....	n/a	n/a
7.3	Online creativity.....	9.9	110
7.3.1	Generic top-level domains (TLDs)/th pop. 15–69.....	0.7	106
7.3.2	Country-code TLDs/th pop. 15–69.....	12.9	87
7.3.3	Wikipedia monthly edits/mn pop. 15–69.....	108.7	105
7.3.4	Video uploads on YouTube/pop. 15–69.....	25.4	114

Netherlands

Key indicators

Population (millions)	16.7
GDP per capita, PPP\$	42,330.7
GDP (US\$ billions)	858.3

	Score (0–100) or value (hard data)	Rank
Global Innovation Index 2012 (out of 141).....	60.5	6
Innovation Output Sub-Index	58.2	3 ●
Innovation Input Sub-Index	62.9	15
Innovation Efficiency Index	0.9	9
Global Innovation Index 2011 (out of 125)		9
GII 2012 rank among GII 2011 economies (125)		6

1	Institutions.....	88.7	11
1.1	Political environment	91.2	10
1.1.1	Political stability*.....	87.9	19
1.1.2	Government effectiveness*.....	86.5	12
1.1.3	Press freedom*.....	99.3	3 ●
1.2	Regulatory environment.....	97.6	4 ●
1.2.1	Regulatory quality*.....	97.3	5 ●
1.2.2	Rule of law*.....	95.7	7
1.2.3	Cost of redundancy dismissal, salary weeks.....	8.7	23
1.3	Business environment	77.4	20
1.3.1	Ease of starting a business*.....	61.8	54
1.3.2	Ease of resolving insolvency*.....	93.5	10
1.3.3	Ease of paying taxes*.....	76.9	33
2	Human capital & research.....	48.4	34
2.1	Education.....	63.6	24
2.1.1	Current expenditure on education, % GNI	4.7	48
2.1.2	Public expenditure/pupil, % GDP/cap.....	24.0	34
2.1.3	School life expectancy, years.....	16.9	7
2.1.4	PISA scales in reading, maths, & science.....	518.8	10
2.1.5	Pupil-teacher ratio, secondary	13.4	59 ○
2.2	Tertiary education	33.7	66 ○
2.2.1	Tertiary enrolment, % gross.....	62.7	24
2.2.2	Graduates in science & engineering, %	14.0	83 ○
2.2.3	Tertiary inbound mobility, %.....	3.8	37
2.2.4	Gross tertiary outbound enrolment, %	1.1	69 ○
2.3	Research & development (R&D).....	48.0	24
2.3.1	Researchers, headcounts/mn pop.	3,088.9	32
2.3.2	Gross expenditure on R&D, % GDP.....	1.8	18
2.3.3	Quality of scientific research institutions†	78.0	8
3	Infrastructure.....	58.7	11
3.1	Information & communication technologies (ICT).....	85.7	2 ●
3.1.1	ICT access*.....	82.9	9
3.1.2	ICT use*.....	63.8	12
3.1.3	Government's online service*.....	96.1	5 ●
3.1.4	E-participation*.....	100.0	1 ●
3.2	General infrastructure	51.0	23
3.2.1	Electricity output, kWh/cap.....	6,905.4	30
3.2.2	Electricity consumption, kWh/cap.....	6,794.7	24
3.2.3	Quality of trade & transport infrastructure*.....	81.3	2 ●
3.2.4	Gross capital formation, % GDP.....	18.7	105 ○
3.3	Ecological sustainability	39.5	43
3.3.1	GDP/unit of energy use, 2000 PPP\$/kg oil eq.....	6.4	46
3.3.2	Environmental performance*.....	65.7	16
3.3.3	ISO 14001 environmental certificates/bn PPP\$ GDP.....	2.2	42
4	Market sophistication	60.8	15
4.1	Credit	63.6	13
4.1.1	Ease of getting credit*.....	57.7	43
4.1.2	Domestic credit to private sector, % GDP.....	199.3	7
4.1.3	Microfinance gross loans, % GDP.....	n/a	n/a

4.2	Investment.....	42.1	28
4.2.1	Ease of protecting investors*.....	29.4	91 ○
4.2.2	Market capitalization, % GDP.....	84.4	22
4.2.3	Total value of stocks traded, % GDP.....	75.6	13
4.2.4	Venture capital deals/tr PPP\$ GDP.....	34.0	33
4.3	Trade & competition	76.6	10
4.3.1	Applied tariff rate, weighted mean, %.....	1.6	11
4.3.2	Non-agricultural mkt access weighted tariff, %.....	2.0	92 ○
4.3.3	Imports of goods & services, % GDP.....	70.6	19
4.3.4	Exports of goods & services, % GDP.....	78.0	15
4.3.5	Intensity of local competition†	81.2	5
5	Business sophistication	58.0	12
5.1	Knowledge workers.....	75.2	16
5.1.1	Knowledge-intensive employment, %.....	47.2	2 ●
5.1.2	Firms offering formal training, % firms.....	n/a	n/a
5.1.3	R&D performed by business, %.....	47.9	34
5.1.4	R&D financed by business, %	48.8	23
5.1.5	GMAT mean score.....	542.1	47
5.1.6	GMAT test takers/mn pop. 20–34.....	310.9	16
5.2	Innovation linkages	48.6	27
5.2.1	University/industry research collaboration†	72.1	8
5.2.2	State of cluster development†	61.2	17
5.2.3	R&D financed by abroad, %.....	10.6	31
5.2.4	JV–strategic alliance deals/tr PPP\$ GDP	39.9	35
5.2.5	PCT patent filings with foreign inventor, %.....	57.0	46 ○
5.3	Knowledge absorption	50.1	18
5.3.1	Royalty & license fees payments/th GDP.....	4.7	18
5.3.2	High-tech imports less re-imports, %	16.5	16
5.3.3	Computer & comm. service imports, %.....	51.4	12
5.3.4	FDI net inflows, % GDP.....	-2.3	138 ○
6	Knowledge & technology outputs	59.4	7
6.1	Knowledge creation.....	66.2	10
6.1.1	Domestic resident patent ap/bn PPP\$ GDP	8.8	22
6.1.2	PCT resident patent ap/bn PPP\$ GDP	4.9	10
6.1.3	Domestic res utility model ap/bn PPP\$ GDP.....	n/a	n/a
6.1.4	Scientific & technical articles/bn PPP\$ GDP.....	22.4	8
6.2	Knowledge impact	50.2	19
6.2.1	Growth rate of PPP\$ GDP/worker, %.....	2.4	61 ○
6.2.2	New businesses/th pop. 15–64.....	3.1	31
6.2.3	Computer software spending, % GDP.....	1.1	3 ●
6.2.4	ISO 9001 quality certificates/bn PPP\$ GDP	16.5	33
6.3	Knowledge diffusion	61.7	7
6.3.1	Royalty & license fees receipts/th GDP.....	7.0	10
6.3.2	High-tech exports less re-exports, %.....	15.7	18
6.3.3	Computer & comm. service exports, %	57.2	15
6.3.4	FDI net outflows, % GDP	6.3	9
7	Creative outputs	57.0	3 ●
7.1	Creative intangibles.....	44.7	50
7.1.1	Domestic res trademark reg/bn PPP\$ GDP.....	15.9	68 ○
7.1.2	Madrid resident trademark reg/bn PPP\$ GDP.....	n/a	n/a
7.1.3	ICT & business model creation†	71.0	10
7.1.4	ICT & organizational model creation†	55.6	41
7.2	Creative goods & services	57.8	3 ●
7.2.1	Recreation & culture consumption, %.....	10.2	13
7.2.2	National feature films/mn pop. 15–69.....	3.9	31
7.2.3	Paid-for dailies, circulation/th pop. 15–69.....	297.3	14
7.2.4	Creative goods exports, %.....	1.4	58
7.2.5	Creative services exports, %.....	29.5	1 ●
7.3	Online creativity.....	80.7	2 ●
7.3.1	Generic top-level domains (TLDs)/th pop. 15–69.....	100.0	1 ●
7.3.2	Country-code TLDs/th pop. 15–69.....	84.1	2 ●
7.3.3	Wikipedia monthly edits/mn pop. 15–69.....	11,586.5	8
7.3.4	Video uploads on YouTube/pop. 15–69.....	79.7	4 ●

Key indicators

Population (millions)	4.4
GDP per capita, PPP\$	27,966.8
GDP (US\$ billions)	168.8

	Score (0–100) or value (hard data)	Rank
Global Innovation Index 2012 (out of 141).....	56.6	13
Innovation Output Sub-Index	49.9	15
Innovation Input Sub-Index	63.4	12
Innovation Efficiency Index	0.8	47
Global Innovation Index 2011 (out of 125)	15	
GII 2012 rank among GII 2011 economies (125)	13	
1 Institutions.....	93.9	3 ●
1.1 Political environment	93.4	8
1.1.1 Political stability*.....	93.2	6 ●
1.1.2 Government effectiveness*.....	90.1	7
1.1.3 Press freedom*.....	96.8	12
1.2 Regulatory environment.....	98.6	2 ●
1.2.1 Regulatory quality*.....	97.2	6 ●
1.2.2 Rule of law*.....	97.1	5 ●
1.2.3 Cost of redundancy dismissal, salary weeks.....	8.0	1 ●
1.3 Business environment	89.7	7
1.3.1 Ease of starting a business*.....	100.0	1 ●
1.3.2 Ease of resolving insolvency*.....	89.9	15
1.3.3 Ease of paying taxes*.....	79.1	30
2 Human capital & research.....	57.6	11
2.1 Education.....	73.7	5 ●
2.1.1 Current expenditure on education, % GNI	7.2	11
2.1.2 Public expenditure/pupil, % GDP/cap.....	24.1	33
2.1.3 School life expectancy, years.....	19.7	1 ●
2.1.4 PISA scales in reading, maths, & science.....	524.1	8
2.1.5 Pupil-teacher ratio, secondary	14.5	65
2.2 Tertiary education	49.1	20
2.2.1 Tertiary enrolment, % gross.....	82.6	7
2.2.2 Graduates in science & engineering, %	19.1	60
2.2.3 Tertiary inbound mobility, %.....	14.2	13
2.2.4 Gross tertiary outbound enrolment, %	1.4	61
2.3 Research & development (R&D).....	50.1	22
2.3.1 Researchers, headcounts/mn pop.	7,017.2	7
2.3.2 Gross expenditure on R&D, % GDP.....	1.2	30
2.3.3 Quality of scientific research institutions†.....	70.7	17
3 Infrastructure.....	51.9	25
3.1 Information & communication technologies (ICT).....	68.8	18
3.1.1 ICT access*.....	75.3	18
3.1.2 ICT use*	63.5	14
3.1.3 Government's online service*.....	78.4	21
3.1.4 E-participation*.....	57.9	25
3.2 General infrastructure	50.8	24
3.2.1 Electricity output, kWh/cap.....	10,258.6	12
3.2.2 Electricity consumption, kWh/cap.....	9,536.7	13
3.2.3 Quality of trade & transport infrastructure*.....	63.5	25
3.2.4 Gross capital formation, % GDP.....	19.9	94 ○
3.3 Ecological sustainability	36.2	56
3.3.1 GDP/unit of energy use, 2000 PPP\$/kg oil eq.....	5.8	58
3.3.2 Environmental performance*.....	66.0	14
3.3.3 ISO 14001 environmental certificates/bn PPP\$ GDP	1.4	53
4 Market sophistication	62.6	12
4.1 Credit	74.2	6 ●
4.1.1 Ease of getting credit*	97.1	4
4.1.2 Domestic credit to private sector, % GDP.....	149.0	13
4.1.3 Microfinance gross loans, % GDP	n/a	n/a

4.2 Investment.....	46.7	21
4.2.1 Ease of protecting investors*.....	100.0	1 ●
4.2.2 Market capitalization, % GDP.....	52.9	40
4.2.3 Total value of stocks traded, % GDP.....	29.4	30
4.2.4 Venture capital deals/tr PPP\$ GDP.....	16.2	40
4.3 Trade & competition	67.0	48
4.3.1 Applied tariff rate, weighted mean, %.....	1.6	38
4.3.2 Non-agricultural mkt access weighted tariff, %.....	0.7	63
4.3.3 Imports of goods & services, % GDP.....	27.2	117 ○
4.3.4 Exports of goods & services, % GDP.....	28.7	94 ○
4.3.5 Intensity of local competition†	69.5	43
5 Business sophistication	50.9	27
5.1 Knowledge workers.....	72.3	19
5.1.1 Knowledge-intensive employment, %.....	42.9	10
5.1.2 Firms offering formal training, % firms.....	n/a	n/a
5.1.3 R&D performed by business, %.....	42.7	39
5.1.4 R&D financed by business, %	40.1	40
5.1.5 GMAT mean score.....	600.9	2 ●
5.1.6 GMAT test takers/mn pop. 20–34.....	202.6	27
5.2 Innovation linkages	38.1	56
5.2.1 University/industry research collaboration†	62.2	23
5.2.2 State of cluster development†	43.7	57
5.2.3 R&D financed by abroad, %.....	4.8	61 ○
5.2.4 JV–strategic alliance deals/tr PPP\$ GDP	79.4	16
5.2.5 PCT patent filings with foreign inventor, %.....	29.1	65 ○
5.3 Knowledge absorption	42.2	42
5.3.1 Royalty & license fees payments/th GDP.....	4.8	17
5.3.2 High-tech imports less re-imports, %.....	12.7	30
5.3.3 Computer & comm. service imports, %.....	36.0	48
5.3.4 FDI net inflows, % GDP.....	-1.0	136 ○
6 Knowledge & technology outputs	49.2	19
6.1 Knowledge creation.....	75.7	5 ●
6.1.1 Domestic resident patent ap/bn PPP\$ GDP	13.4	11
6.1.2 PCT resident patent ap/bn PPP\$ GDP	2.6	17
6.1.3 Domestic res utility model ap/bn PPP\$ GDP.....	n/a	n/a
6.1.4 Scientific & technical articles/bn PPP\$ GDP.....	27.7	4 ●
6.2 Knowledge impact	47.6	23
6.2.1 Growth rate of PPP\$ GDP/worker, %.....	1.6	80 ○
6.2.2 New businesses/th pop. 15–64.....	17.1	1 ●
6.2.3 Computer software spending, % GDP.....	0.2	37
6.2.4 ISO 9001 quality certificates/bn PPP\$ GDP	8.4	53
6.3 Knowledge diffusion	24.3	77
6.3.1 Royalty & license fees receipts/th GDP.....	1.3	28
6.3.2 High-tech exports less re-exports, %.....	2.0	62
6.3.3 Computer & comm. service exports, %	23.6	78 ○
6.3.4 FDI net outflows, % GDP	-1.1	114 ○
7 Creative outputs	50.5	15
7.1 Creative intangibles.....	52.0	21
7.1.1 Domestic res trademark reg/bn PPP\$ GDP.....	55.9	30
7.1.2 Madrid resident trademark reg/bn PPP\$ GDP.....	n/a	n/a
7.1.3 ICT & business model creation†	64.9	28
7.1.4 ICT & organizational model creation†	64.7	18
7.2 Creative goods & services	36.6	28
7.2.1 Recreation & culture consumption, %.....	11.6	2 ●
7.2.2 National feature films/mn pop. 15–69.....	4.6	24
7.2.3 Paid-for dailies, circulation/th pop. 15–69.....	207.6	23
7.2.4 Creative goods exports, %.....	0.9	78 ○
7.2.5 Creative services exports, %.....	5.5	34
7.3 Online creativity.....	61.5	16
7.3.1 Generic top-level domains (TLDs)/th pop. 15–69.....	60.0	16
7.3.2 Country-code TLDs/th pop. 15–69.....	70.4	14
7.3.3 Wikipedia monthly edits/mn pop. 15–69.....	8,446.1	12
7.3.4 Video uploads on YouTube/pop. 15–69	72.8	18

Nicaragua

Key indicators

Population (millions)	5.9
GDP per capita, PPP\$	3,185.4
GDP (US\$ billions)	7.1

	Score (0–100) or value (hard data)	Rank
Global Innovation Index 2012 (out of 141).....	26.7	105
Innovation Output Sub-Index	20.4	119
Innovation Input Sub-Index	32.9	102
Innovation Efficiency Index	0.6	114
Global Innovation Index 2011 (out of 125)		110
GII 2012 rank among GII 2011 economies (125)		99

1 Institutions.....	46.3	99
1.1 Political environment	47.7	87
1.1.1 Political stability*.....	50.7	100
1.1.2 Government effectiveness*.....	15.7	131 ○
1.1.3 Press freedom*.....	76.8	58
1.2 Regulatory environment.....	60.2	91
1.2.1 Regulatory quality*.....	42.3	97
1.2.2 Rule of law*.....	25.8	113
1.2.3 Cost of redundancy dismissal, salary weeks.....	14.9	67
1.3 Business environment	30.9	105
1.3.1 Ease of starting a business*.....	30.9	97
1.3.2 Ease of resolving insolvency*.....	49.6	71
1.3.3 Ease of paying taxes*.....	12.2	123

2 Human capital & research.....	14.9	136 ○
2.1 Education.....	26.9	128
2.1.1 Current expenditure on education, % GNI	3.0	108
2.1.2 Public expenditure/pupil, % GDP/cap.....	10.2	108 ○
2.1.3 School life expectancy, years.....	10.8	106
2.1.4 PISA scales in reading, maths, & science.....	n/a	n/a
2.1.5 Pupil-teacher ratio, secondary	30.8	122 ○
2.2 Tertiary education	10.3	124
2.2.1 Tertiary enrolment, % gross.....	18.0	91
2.2.2 Graduates in science & engineering, %	n/a	n/a
2.2.3 Tertiary inbound mobility, %.....	n/a	n/a
2.2.4 Gross tertiary outbound enrolment, %	0.4	107
2.3 Research & development (R&D).....	7.5	133 ○
2.3.1 Researchers, headcounts/mn pop.	60.9	108
2.3.2 Gross expenditure on R&D, % GDP.....	0.0	107 ○
2.3.3 Quality of scientific research institutions†	21.4	125 ○

3 Infrastructure.....	27.0	99
3.1 Information & communication technologies (ICT)	18.7	106
3.1.1 ICT access*.....	25.3	104
3.1.2 ICT use*.....	4.8	108
3.1.3 Government's online service*.....	31.4	113
3.1.4 E-participation*.....	13.2	83
3.2 General infrastructure	30.1	102
3.2.1 Electricity output, kWh/cap.....	601.4	104
3.2.2 Electricity consumption, kWh/cap.....	456.9	105
3.2.3 Quality of trade & transport infrastructure*.....	30.8	100
3.2.4 Gross capital formation, % GDP.....	27.5	26 ●
3.3 Ecological sustainability	32.3	63
3.3.1 GDP/unit of energy use, 2000 PPP\$/kg oil eq.....	6.3	49 ●
3.3.2 Environmental performance*.....	59.2	34 ●
3.3.3 ISO 14001 environmental certificates/bn PPP\$ GDP	0.3	95

4 Market sophistication	39.3	66
4.1 Credit	30.8	66
4.1.1 Ease of getting credit*.....	27.0	88
4.1.2 Domestic credit to private sector, % GDP.....	32.5	91
4.1.3 Microfinance gross loans, % GDP.....	4.7	8 ●

4.2 Investment.....	18.0	92
4.2.1 Ease of protecting investors*.....	35.9	76
4.2.2 Market capitalization, % GDP.....	n/a	n/a
4.2.3 Total value of stocks traded, % GDP.....	n/a	n/a
4.2.4 Venture capital deals/tr PPP\$ GDP.....	0.0	65 ○

4.3 Trade & competition	69.1	33 ●
4.3.1 Applied tariff rate, weighted mean, %.....	2.3	45 ●
4.3.2 Non-agricultural mkt access weighted tariff, %.....	0.3	38 ●
4.3.3 Imports of goods & services, % GDP.....	69.6	21 ●
4.3.4 Exports of goods & services, % GDP.....	41.3	59
4.3.5 Intensity of local competition†	50.9	114

5 Business sophistication	37.1	80
5.1 Knowledge workers.....	41.8	81
5.1.1 Knowledge-intensive employment, %.....	14.8	88
5.1.2 Firms offering formal training, % firms.....	47.2	36 ●
5.1.3 R&D performed by business, %.....	n/a	n/a
5.1.4 R&D financed by business, %	n/a	n/a
5.1.5 GMAT mean score.....	467.5	98
5.1.6 GMAT test takers/mn pop. 20–34.....	31.0	103

5.2 Innovation linkages	37.9	58
5.2.1 University/industry research collaboration†	30.8	115
5.2.2 State of cluster development†	32.8	105
5.2.3 R&D financed by abroad, %.....	n/a	n/a
5.2.4 JV-strategic alliance deals/tr PPP\$ GDP	0.0	114 ○
5.2.5 PCT patent filings with foreign inventor, %.....	100.0	1 ●

5.3 Knowledge absorption	31.7	90
5.3.1 Royalty & license fees payments/th GDP.....	n/a	n/a
5.3.2 High-tech imports less re-imports, %	8.0	71
5.3.3 Computer & comm. service imports, %.....	11.1	123 ○
5.3.4 FDI net inflows, % GDP.....	7.8	22 ●

6 Knowledge & technology outputs	18.6	111
6.1 Knowledge creation.....	21.4	69
6.1.1 Domestic resident patent ap/bn PPP\$ GDP	n/a	n/a
6.1.2 PCT resident patent ap/bn PPP\$ GDP	0.1	88
6.1.3 Domestic res utility model ap/bn PPP\$ GDP.....	n/a	n/a
6.1.4 Scientific & technical articles/bn PPP\$ GDP.....	0.7	122

6.2 Knowledge impact	24.9	104
6.2.1 Growth rate of PPP\$ GDP/worker, %.....	n/a	n/a
6.2.2 New businesses/th pop. 15–64.....	n/a	n/a
6.2.3 Computer software spending, % GDP.....	n/a	n/a
6.2.4 ISO 9001 quality certificates/bn PPP\$ GDP	2.0	95

6.3 Knowledge diffusion	9.5	128 ○
6.3.1 Royalty & license fees receipts/th GDP.....	n/a	n/a
6.3.2 High-tech exports less re-exports, %.....	0.3	95
6.3.3 Computer & comm. service exports, %	15.5	104
6.3.4 FDI net outflows, % GDP	n/a	n/a

7 Creative outputs	22.3	113
7.1 Creative intangibles.....	33.3	101
7.1.1 Domestic res trademark reg/bn PPP\$ GDP.....	n/a	n/a
7.1.2 Madrid resident trademark reg/bn PPP\$ GDP.....	n/a	n/a
7.1.3 ICT & business model creation†	42.2	105
7.1.4 ICT & organizational model creation†	24.4	129 ○

7.2 Creative goods & services	8.2	112
7.2.1 Recreation & culture consumption, %.....	2.6	73
7.2.2 National feature films/mn pop. 15–69.....	0.3	91 ○
7.2.3 Paid-for dailies, circulation/th pop. 15–69.....	48.0	82
7.2.4 Creative goods exports, %.....	0.1	112
7.2.5 Creative services exports, %.....	n/a	n/a

7.3 Online creativity.....	14.4	97
7.3.1 Generic top-level domains (TLDs)/th pop. 15–69.....	1.0	100
7.3.2 Country-code TLDs/th pop. 15–69.....	14.4	84
7.3.3 Wikipedia monthly edits/mn pop. 15–69.....	276.3	91
7.3.4 Video uploads on YouTube/pop. 15–69.....	40.7	97

Key indicators

Population (millions)	15.1
GDP per capita, PPP\$	795.3
GDP (US\$ billions)	6.5

	Score (0–100) or value (hard data)	Rank
Global Innovation Index 2012 (out of 141).....	18.6	140 ○
Innovation Output Sub-Index	11.9	140 ○
Innovation Input Sub-Index	25.4	136
Innovation Efficiency Index	0.5	138
Global Innovation Index 2011 (out of 125)	122	
GII 2012 rank among GII 2011 economies (125)	124	

1 Institutions.....43.3 105**1.1 Political environment50.6 82**

1.1.1 Political stability*.....	37.9	121
1.1.2 Government effectiveness*.....	22.3	113
1.1.3 Press freedom*.....	91.6	26 ●

1.2 Regulatory environment.....65.8 72 ●

1.2.1 Regulatory quality*.....	39.0	108
1.2.2 Rule of law*.....	32.7	99
1.2.3 Cost of redundancy dismissal, salary weeks.....	10.1	41 ●

1.3 Business environment13.4 134

1.3.1 Ease of starting a business*.....	6.4	131
1.3.2 Ease of resolving insolvency*.....	11.5	124
1.3.3 Ease of paying taxes*.....	22.3	108

2 Human capital & research.....16.0 135**2.1 Education.....29.4 126**

2.1.1 Current expenditure on education, % GNI	3.5	91
2.1.2 Public expenditure/pupil, % GDP/cap.....	28.2	13 ●
2.1.3 School life expectancy, years.....	4.9	133 ○
2.1.4 PISA scales in reading, maths, & science.....	n/a	n/a
2.1.5 Pupil-teacher ratio, secondary	29.6	119

2.2 Tertiary education18.6 109

2.2.1 Tertiary enrolment, % gross.....	1.5	133 ○
2.2.2 Graduates in science & engineering, %	10.5	95
2.2.3 Tertiary inbound mobility, %.....	6.6	23 ●
2.2.4 Gross tertiary outbound enrolment, %	0.2	131

2.3 Research & development (R&D).....0.0 139 ○

2.3.1 Researchers, headcounts/mn pop.	9.9	120 ○
2.3.2 Gross expenditure on R&D, % GDP.....	n/a	n/a
2.3.3 Quality of scientific research institutions†.....	n/a	n/a

3 Infrastructure.....16.5 137**3.1 Information & communication technologies (ICT)8.9 140 ○**

3.1.1 ICT access*.....	15.5	135
3.1.2 ICT use*	0.3	139 ○
3.1.3 Government's online service*.....	19.6	132
3.1.4 E-participation*.....	0.0	127 ○

3.2 General infrastructure39.3 53 ●

3.2.1 Electricity output, kWh/cap.....	n/a	n/a
3.2.2 Electricity consumption, kWh/cap.....	n/a	n/a
3.2.3 Quality of trade & transport infrastructure*.....	32.0	97
3.2.4 Gross capital formation, % GDP.....	22.6	68 ●

3.3 Ecological sustainability1.3 134

3.3.1 GDP/unit of energy use, 2000 PPP\$/kg oil eq.....	n/a	n/a
3.3.2 Environmental performance*.....	n/a	n/a
3.3.3 ISO 14001 environmental certificates/bn PPP\$ GDP	0.2	112

4 Market sophistication19.0 138**4.1 Credit2.8 138**

4.1.1 Ease of getting credit*	2.8	126
4.1.2 Domestic credit to private sector, % GDP.....	12.6	133
4.1.3 Microfinance gross loans, % GDP.....	0.3	54

4.2 Investment.....3.6 129

4.2.1 Ease of protecting investors*.....	7.1	123
4.2.2 Market capitalization, % GDP.....	n/a	n/a
4.2.3 Total value of stocks traded, % GDP.....	n/a	n/a
4.2.4 Venture capital deals/tr PPP\$ GDP.....	0.0	65 ○

4.3 Trade & competition50.5 122

4.3.1 Applied tariff rate, weighted mean, %.....	9.1	119
4.3.2 Non-agricultural mkt access weighted tariff, %.....	0.7	62 ●
4.3.3 Imports of goods & services, % GDP.....	24.2	127
4.3.4 Exports of goods & services, % GDP.....	15.0	132
4.3.5 Intensity of local competition†	n/a	n/a

5 Business sophistication32.1 112**5.1 Knowledge workers.....19.9 136**

5.1.1 Knowledge-intensive employment, %.....	n/a	n/a
5.1.2 Firms offering formal training, % firms.....	32.1	58 ●
5.1.3 R&D performed by business, %.....	n/a	n/a
5.1.4 R&D financed by business, %	n/a	n/a
5.1.5 GMAT mean score.....	344.0	140 ○
5.1.6 GMAT test takers/mn pop. 20–34.....	2.6	138

5.2 Innovation linkages50.0 24 ●

5.2.1 University/industry research collaboration†	n/a	n/a
5.2.2 State of cluster development†	n/a	n/a
5.2.3 R&D financed by abroad, %.....	n/a	n/a
5.2.4 JV–strategic alliance deals/tr PPP\$ GDP	0.0	114 ○
5.2.5 PCT patent filings with foreign inventor, %.....	100.0	1 ●

5.3 Knowledge absorption26.5 118

5.3.1 Royalty & license fees payments/th GDP.....	0.4	95
5.3.2 High-tech imports less re-imports, %	3.7	119
5.3.3 Computer & comm. service imports, %.....	16.6	111
5.3.4 FDI net inflows, % GDP.....	17.1	8 ●

6 Knowledge & technology outputs18.5 114**6.1 Knowledge creation.....18.6 81**

6.1.1 Domestic resident patent ap/bn PPP\$ GDP	0.8	72
6.1.2 PCT resident patent ap/bn PPP\$ GDP	0.1	70
6.1.3 Domestic res utility model ap/bn PPP\$ GDP.....	n/a	n/a
6.1.4 Scientific & technical articles/bn PPP\$ GDP.....	1.5	97

6.2 Knowledge impact15.7 128

6.2.1 Growth rate of PPP\$ GDP/worker, %	–0.2	106
6.2.2 New businesses/th pop. 15–64.....	0.0	101 ○
6.2.3 Computer software spending, % GDP.....	n/a	n/a
6.2.4 ISO 9001 quality certificates/bn PPP\$ GDP	0.6	122

6.3 Knowledge diffusion21.1 101

6.3.1 Royalty & license fees receipts/th GDP.....	0.0	103
6.3.2 High-tech exports less re-exports, %.....	1.0	71
6.3.3 Computer & comm. service exports, %	23.1	79
6.3.4 FDI net outflows, % GDP	1.7	26 ●

7 Creative outputs5.3 140 ○**7.1 Creative intangibles.....n/a n/a**

7.1.1 Domestic res trademark reg/bn PPP\$ GDP.....	n/a	n/a
7.1.2 Madrid resident trademark reg/bn PPP\$ GDP.....	n/a	n/a
7.1.3 ICT & business model creation†	n/a	n/a
7.1.4 ICT & organizational model creation†	n/a	n/a

7.2 Creative goods & services5.5 121

7.2.1 Recreation & culture consumption, %.....	2.6	74
7.2.2 National feature films/mn pop. 15–69.....	0.4	88
7.2.3 Paid-for dailies, circulation/th pop. 15–69.....	0.5	136 ○
7.2.4 Creative goods exports, %.....	0.0	123
7.2.5 Creative services exports, %.....	0.9	73

7.3 Online creativity.....5.1 127

7.3.1 Generic top-level domains (TLDs)/th pop. 15–69.....	0.3	114
7.3.2 Country-code TLDs/th pop. 15–69.....	0.2	134
7.3.3 Wikipedia monthly edits/mn pop. 15–69.....	n/a	n/a
7.3.4 Video uploads on YouTube/pop. 15–69.....	14.8	128

Nigeria

Key indicators

Population (millions)	160.3
GDP per capita, PPP\$	2,589.0
GDP (US\$ billions)	247.1

	Score (0–100) or value (hard data)	Rank
Global Innovation Index 2012 (out of 141).....	24.6	123
Innovation Output Sub-Index	23.1	102
Innovation Input Sub-Index	26.1	134
Innovation Efficiency Index	0.9	17 ●
Global Innovation Index 2011 (out of 125)	96	
GII 2012 rank among GII 2011 economies (125)	113	

1	Institutions.....	39.3	120
1.1	Political environment	26.9	135
1.1.1	Political stability*.....	15.9	138 ○
1.1.2	Government effectiveness*.....	9.6	137 ○
1.1.3	Press freedom*.....	55.1	101
1.2	Regulatory environment.....	53.8	105
1.2.1	Regulatory quality*.....	31.9	123
1.2.2	Rule of law*.....	15.8	133
1.2.3	Cost of redundancy dismissal, salary weeks.....	16.2	75
1.3	Business environment	37.3	98
1.3.1	Ease of starting a business*.....	36.6	89
1.3.2	Ease of resolving insolvency*.....	32.3	95
1.3.3	Ease of paying taxes*.....	43.1	80
2	Human capital & research.....	12.7	139 ○
2.1	Education.....	18.3	140 ○
2.1.1	Current expenditure on education, % GNI	0.9	138 ○
2.1.2	Public expenditure/pupil, % GDP/cap.....	n/a	n/a
2.1.3	School life expectancy, years.....	n/a	123
2.1.4	PISA scales in reading, maths, & science.....	n/a	n/a
2.1.5	Pupil-teacher ratio, secondary	33.1	125
2.2	Tertiary education	5.5	134
2.2.1	Tertiary enrolment, % gross.....	10.3	104
2.2.2	Graduates in science & engineering, %	n/a	n/a
2.2.3	Tertiary inbound mobility, %.....	n/a	n/a
2.2.4	Gross tertiary outbound enrolment, %	0.2	122
2.3	Research & development (R&D).....	14.3	109
2.3.1	Researchers, headcounts/mn pop.	119.9	97
2.3.2	Gross expenditure on R&D, % GDP.....	0.2	81
2.3.3	Quality of scientific research institutions†.....	37.3	89
3	Infrastructure.....	16.8	134
3.1	Information & communication technologies (ICT).....	17.5	111
3.1.1	ICT access*.....	18.7	124
3.1.2	ICT use*.....	10.5	89
3.1.3	Government's online service*.....	22.2	129
3.1.4	E-participation*.....	18.4	71
3.2	General infrastructure	18.1	139 ○
3.2.1	Electricity output, kWh/cap.....	130.2	118
3.2.2	Electricity consumption, kWh/cap.....	120.3	118
3.2.3	Quality of trade & transport infrastructure*.....	35.8	81
3.2.4	Gross capital formation, % GDP.....	n/a	n/a
3.3	Ecological sustainability	15.0	122
3.3.1	GDP/unit of energy use, 2000 PPP\$/kg oil eq.....	1.7	120
3.3.2	Environmental performance*.....	40.1	113
3.3.3	ISO 14001 environmental certificates/bn PPP\$ GDP.....	0.1	127
4	Market sophistication	34.0	91
4.1	Credit	15.7	106
4.1.1	Ease of getting credit*.....	38.7	72
4.1.2	Domestic credit to private sector, % GDP.....	29.4	95
4.1.3	Microfinance gross loans, % GDP.....	0.0	73

4.2	Investment.....	28.5	61 ●
4.2.1	Ease of protecting investors*.....	58.2	48 ●
4.2.2	Market capitalization, % GDP.....	26.3	66
4.2.3	Total value of stocks traded, % GDP.....	2.7	62
4.2.4	Venture capital deals/tr PPP\$ GDP.....	12.0	43 ●
4.3	Trade & competition	57.8	96
4.3.1	Applied tariff rate, weighted mean, %.....	10.6	127
4.3.2	Non-agricultural mkt access weighted tariff, %.....	0.0	13 ●
4.3.3	Imports of goods & services, % GDP.....	26.6	121
4.3.4	Exports of goods & services, % GDP.....	39.4	66 ●
4.3.5	Intensity of local competition†.....	62.7	69
5	Business sophistication	27.5	129
5.1	Knowledge workers.....	27.2	123
5.1.1	Knowledge-intensive employment, %.....	n/a	n/a
5.1.2	Firms offering formal training, % firms.....	25.7	74
5.1.3	R&D performed by business, %.....	n/a	n/a
5.1.4	R&D financed by business, %	0.2	89 ○
5.1.5	GMAT mean score.....	434.8	112
5.1.6	GMAT test takers/mn pop. 20–34.....	37.5	95
5.2	Innovation linkages	25.3	123
5.2.1	University/industry research collaboration†.....	35.7	105
5.2.2	State of cluster development†.....	48.3	41 ●
5.2.3	R&D financed by abroad, %.....	1.0	82
5.2.4	JV–strategic alliance deals/tr PPP\$ GDP.....	8.8	92
5.2.5	PCT patent filings with foreign inventor, %.....	n/a	n/a
5.3	Knowledge absorption	30.1	95
5.3.1	Royalty & license fees payments/th GDP.....	1.1	70
5.3.2	High-tech imports less re-imports, %	7.4	78
5.3.3	Computer & comm. service imports, %.....	30.0	67
5.3.4	FDI net inflows, % GDP.....	3.1	57 ●
6	Knowledge & technology outputs	16.4	127
6.1	Knowledge creation.....	9.4	113
6.1.1	Domestic resident patent ap/bn PPP\$ GDP.....	n/a	n/a
6.1.2	PCT resident patent ap/bn PPP\$ GDP.....	0.0	107 ○
6.1.3	Domestic res utility model ap/bn PPP\$ GDP.....	n/a	n/a
6.1.4	Scientific & technical articles/bn PPP\$ GDP.....	1.3	101
6.2	Knowledge impact	22.1	112
6.2.1	Growth rate of PPP\$ GDP/worker, %.....	4.9	22 ●
6.2.2	New businesses/th pop. 15–64.....	0.8	69
6.2.3	Computer software spending, % GDP.....	0.0	72 ○
6.2.4	ISO 9001 quality certificates/bn PPP\$ GDP.....	0.1	139 ○
6.3	Knowledge diffusion	17.8	111
6.3.1	Royalty & license fees receipts/th GDP.....	n/a	n/a
6.3.2	High-tech exports less re-exports, %.....	0.1	112
6.3.3	Computer & comm. service exports, %	2.9	131 ○
6.3.4	FDI net outflows, % GDP.....	0.5	57 ●
7	Creative outputs	29.7	76
7.1	Creative intangibles.....	50.9	24 ●
7.1.1	Domestic res trademark reg/bn PPP\$ GDP.....	n/a	n/a
7.1.2	Madrid resident trademark reg/bn PPP\$ GDP.....	n/a	n/a
7.1.3	ICT & business model creation†.....	54.0	59 ●
7.1.4	ICT & organizational model creation†.....	47.8	69
7.2	Creative goods & services	16.1	82
7.2.1	Recreation & culture consumption, %.....	2.1	81
7.2.2	National feature films/mn pop. 15–69.....	11.6	8 ●
7.2.3	Paid-for dailies, circulation/th pop. 15–69.....	5.6	121
7.2.4	Creative goods exports, %.....	0.0	127
7.2.5	Creative services exports, %.....	n/a	n/a
7.3	Online creativity.....	1.0	140 ○
7.3.1	Generic top-level domains (TLDs)/th pop. 15–69.....	0.3	119
7.3.2	Country-code TLDs/th pop. 15–69.....	0.2	135
7.3.3	Wikipedia monthly edits/mn pop. 15–69.....	8.6	125 ○
7.3.4	Video uploads on YouTube/pop. 15–69.....	3.3	138 ○

Key indicators

Population (millions)	5.0
GDP per capita, PPP\$	53,376.2
GDP (US\$ billions)	479.3

	Score (0–100) or value (hard data)	Rank
Global Innovation Index 2012 (out of 141).....	56.4	14
Innovation Output Sub-Index	48.8	17
Innovation Input Sub-Index	64.0	11
Innovation Efficiency Index	0.8	58
Global Innovation Index 2011 (out of 125) .....	.....	18
GII 2012 rank among GII 2011 economies (125) .....	.....	14
1 Institutions.....	93.0	5
1.1 Political environment	94.8	3 ●
1.1.1 Political stability*.....	96.4	3 ●
1.1.2 Government effectiveness*.....	88.1	10
1.1.3 Press freedom*.....	100.0	1 ●
1.2 Regulatory environment.....	96.4	10
1.2.1 Regulatory quality*.....	89.3	16
1.2.2 Rule of law*.....	98.8	3 ●
1.2.3 Cost of redundancy dismissal, salary weeks	8.7	23
1.3 Business environment	87.7	9
1.3.1 Ease of starting a business*.....	79.8	28
1.3.2 Ease of resolving insolvency*.....	97.8	4
1.3.3 Ease of paying taxes*.....	85.6	21
2 Human capital & research.....	56.1	13
2.1 Education.....	63.8	21
2.1.1 Current expenditure on education, % GNI	6.2	15
2.1.2 Public expenditure/pupil, % GDP/cap.....	25.1	25
2.1.3 School life expectancy, years.....	17.3	5
2.1.4 PISA scales in reading, maths, & science	500.4	17
2.1.5 Pupil-teacher ratio, secondary	n/a	n/a
2.2 Tertiary education	47.0	28
2.2.1 Tertiary enrolment, % gross.....	73.8	15
2.2.2 Graduates in science & engineering, %	15.2	75 ○
2.2.3 Tertiary inbound mobility, %.....	8.0	19
2.2.4 Gross tertiary outbound enrolment, %	4.1	17
2.3 Research & development (R&D).....	57.6	13
2.3.1 Researchers, headcounts/mn pop.	9,237.4	3 ●
2.3.2 Gross expenditure on R&D, % GDP.....	1.8	20
2.3.3 Quality of scientific research institutions†	62.1	27
3 Infrastructure.....	64.3	2 ●
3.1 Information & communication technologies (ICT).....	74.7	12
3.1.1 ICT access*.....	78.8	12
3.1.2 ICT use*	66.0	7
3.1.3 Government's online service*	85.6	13
3.1.4 E-participation*.....	68.4	15
3.2 General infrastructure	74.8	1 ●
3.2.1 Electricity output, kWh/cap.....	25,275.9	1 ●
3.2.2 Electricity consumption, kWh/cap	25,181.1	1 ●
3.2.3 Quality of trade & transport infrastructure*	80.5	3
3.2.4 Gross capital formation, % GDP.....	21.3	81 ○
3.3 Ecological sustainability	43.5	31
3.3.1 GDP/unit of energy use, 2000 PPP\$/kg oil eq.....	6.1	51
3.3.2 Environmental performance*.....	69.9	3 ●
3.3.3 ISO 14001 environmental certificates/bn PPP\$ GDP	3.4	26
4 Market sophistication	57.5	19
4.1 Credit	43.3	38
4.1.1 Ease of getting credit*	57.7	43
4.1.2 Domestic credit to private sector, % GDP.....	87.0	39
4.1.3 Microfinance gross loans, % GDP	n/a	n/a

4.2 Investment.....	56.9	12
4.2.1 Ease of protecting investors*.....	82.0	20
4.2.2 Market capitalization, % GDP.....	60.5	37
4.2.3 Total value of stocks traded, % GDP.....	52.4	21
4.2.4 Venture capital deals/tr PPP\$ GDP.....	188.8	7
4.3 Trade & competition	72.3	18
4.3.1 Applied tariff rate, weighted mean, %.....	0.4	5
4.3.2 Non-agricultural mkt access weighted tariff, %.....	0.4	51
4.3.3 Imports of goods & services, % GDP	28.6	110 ○
4.3.4 Exports of goods & services, % GDP	41.9	57
4.3.5 Intensity of local competition†	73.0	30
5 Business sophistication	49.3	31
5.1 Knowledge workers.....	70.8	22
5.1.1 Knowledge-intensive employment, %.....	43.5	8
5.1.2 Firms offering formal training, % firms.....	n/a	n/a
5.1.3 R&D performed by business, %.....	52.6	30
5.1.4 R&D financed by business, %	45.3	31
5.1.5 GMAT mean score.....	512.4	67 ○
5.1.6 GMAT test takers/mn pop. 20–34.....	292.0	19
5.2 Innovation linkages	40.6	53
5.2.1 University/industry research collaboration†	63.1	21
5.2.2 State of cluster development†	58.6	22
5.2.3 R&D financed by abroad, %.....	8.3	41 ○
5.2.4 JV–strategic alliance deals/tr PPP\$ GDP	49.0	27
5.2.5 PCT patent filings with foreign inventor, %.....	21.1	75 ○
5.3 Knowledge absorption	36.4	63 ○
5.3.1 Royalty & license fees payments/th GDP.....	1.3	63 ○
5.3.2 High-tech imports less re-imports, %	12.0	32
5.3.3 Computer & comm. service imports, %.....	36.6	46
5.3.4 FDI net inflows, % GDP.....	2.8	63 ○
6 Knowledge & technology outputs	42.1	26
6.1 Knowledge creation.....	55.7	17
6.1.1 Domestic resident patent ap/bn PPP\$ GDP	6.4	31
6.1.2 PCT resident patent ap/bn PPP\$ GDP	2.7	16
6.1.3 Domestic res utility model ap/bn PPP\$ GDP.....	n/a	n/a
6.1.4 Scientific & technical articles/bn PPP\$ GDP.....	17.7	15
6.2 Knowledge impact	37.1	53
6.2.1 Growth rate of PPP\$ GDP/worker, %.....	0.4	100 ○
6.2.2 New businesses/th pop. 15–64.....	4.5	21
6.2.3 Computer software spending, % GDP.....	0.6	18
6.2.4 ISO 9001 quality certificates/bn PPP\$ GDP	7.4	56
6.3 Knowledge diffusion	33.4	46
6.3.1 Royalty & license fees receipts/th GDP.....	1.2	29
6.3.2 High-tech exports less re-exports, %.....	3.8	48
6.3.3 Computer & comm. service exports, %	44.1	32
6.3.4 FDI net outflows, % GDP	3.0	19
7 Creative outputs	55.5	5
7.1 Creative intangibles.....	45.4	47
7.1.1 Domestic res trademark reg/bn PPP\$ GDP.....	48.0	35
7.1.2 Madrid resident trademark reg/bn PPP\$ GDP.....	1.3	16
7.1.3 ICT & business model creation†	74.1	5
7.1.4 ICT & organizational model creation†	58.4	30
7.2 Creative goods & services	53.2	6
7.2.1 Recreation & culture consumption, %.....	13.6	1 ●
7.2.2 National feature films/mn pop. 15–69.....	6.9	14
7.2.3 Paid-for dailies, circulation/th pop. 15–69.....	604.2	1 ●
7.2.4 Creative goods exports, %.....	0.2	104 ○
7.2.5 Creative services exports, %.....	11.4	16
7.3 Online creativity.....	78.0	3 ●
7.3.1 Generic top-level domains (TLDs)/th pop. 15–69.....	74.5	10
7.3.2 Country-code TLDs/th pop. 15–69.....	70.9	13
7.3.3 Wikipedia monthly edits/mn pop. 15–69.....	17,624.9	3 ●
7.3.4 Video uploads on YouTube/pop. 15–69	77.1	11

Oman

Key indicators

Population (millions)	3.1
GDP per capita, PPP\$	26,272.4
GDP (US\$ billions)	66.8

	Score (0–100) or value (hard data)	Rank
Global Innovation Index 2012 (out of 141).....	39.5	47
Innovation Output Sub-Index	32.1	55
Innovation Input Sub-Index	46.9	42
Innovation Efficiency Index	0.7	90
Global Innovation Index 2011 (out of 125)	57	57
GII 2012 rank among GII 2011 economies (125)	45	45

1	Institutions.....	71.9	33	●
1.1	Political environment	64.8	50	
1.1.1	Political stability*.....	81.9	32	●
1.1.2	Government effectiveness*.....	56.3	45	
1.1.3	Press freedom*.....	56.1	92	
1.2	Regulatory environment.....	82.5	32	●
1.2.1	Regulatory quality*.....	64.6	49	
1.2.2	Rule of law*.....	65.5	40	
1.2.3	Cost of redundancy dismissal, salary weeks.....	8.0	1	●
1.3	Business environment	68.3	33	●
1.3.1	Ease of starting a business*.....	57.5	60	
1.3.2	Ease of resolving insolvency*.....	51.7	68	
1.3.3	Ease of paying taxes*.....	95.6	7	●
2	Human capital & research.....	48.1	36	●
2.1	Education.....	49.3	75	
2.1.1	Current expenditure on education, % GNI	4.2	66	
2.1.2	Public expenditure/pupil, % GDP/cap.....	16.0	86	
2.1.3	School life expectancy, years.....	13.5	59	
2.1.4	PISA scales in reading, maths, & science.....	n/a	n/a	
2.1.5	Pupil-teacher ratio, secondary	14.8	67	
2.2	Tertiary education	49.0	21	●
2.2.1	Tertiary enrolment, % gross.....	24.5	81	
2.2.2	Graduates in science & engineering, %	38.9	2	●
2.2.3	Tertiary inbound mobility, %.....	2.3	52	
2.2.4	Gross tertiary outbound enrolment, %	1.6	57	
2.3	Research & development (R&D).....	45.9	26	●
2.3.1	Researchers, headcounts/mn pop.	n/a	n/a	
2.3.2	Gross expenditure on R&D, % GDP.....	n/a	n/a	
2.3.3	Quality of scientific research institutions†.....	45.9	59	
3	Infrastructure.....	38.3	51	
3.1	Information & communication technologies (ICT).....	46.7	45	
3.1.1	ICT access*.....	50.0	56	
3.1.2	ICT use*.....	25.5	51	
3.1.3	Government's online service*.....	66.7	35	●
3.1.4	E-participation*.....	44.7	36	
3.2	General infrastructure	47.0	30	●
3.2.1	Electricity output, kWh/cap.....	6,182.1	35	
3.2.2	Electricity consumption, kWh/cap.....	5,456.6	38	
3.2.3	Quality of trade & transport infrastructure*.....	51.5	39	
3.2.4	Gross capital formation, % GDP.....	29.6	20	●
3.3	Ecological sustainability	21.2	108	
3.3.1	GDP/unit of energy use, 2000 PPP\$/kg oil eq.....	3.3	100	
3.3.2	Environmental performance*.....	44.0	105	○
3.3.3	ISO 14001 environmental certificates/bn PPP\$ GDP.....	0.6	73	
4	Market sophistication	32.6	100	
4.1	Credit	15.1	110	
4.1.1	Ease of getting credit*.....	15.3	112	○
4.1.2	Domestic credit to private sector, % GDP.....	48.2	65	
4.1.3	Microfinance gross loans, % GDP.....	n/a	n/a	

4.2	Investment.....	14.2	102	
4.2.1	Ease of protecting investors*.....	35.9	76	
4.2.2	Market capitalization, % GDP.....	36.9	57	
4.2.3	Total value of stocks traded, % GDP.....	12.4	47	
4.2.4	Venture capital deals/tr PPP\$ GDP.....	0.0	65	○
4.3	Trade & competition	68.6	38	
4.3.1	Applied tariff rate, weighted mean, %.....	3.2	55	
4.3.2	Non-agricultural mkt access weighted tariff, %.....	1.0	70	
4.3.3	Imports of goods & services, % GDP.....	41.5	67	
4.3.4	Exports of goods & services, % GDP.....	52.6	39	
4.3.5	Intensity of local competition†.....	68.3	52	
5	Business sophistication	43.8	47	
5.1	Knowledge workers.....	29.3	116	○
5.1.1	Knowledge-intensive employment, %.....	n/a	n/a	
5.1.2	Firms offering formal training, % firms.....	20.9	89	○
5.1.3	R&D performed by business, %.....	n/a	n/a	
5.1.4	R&D financed by business, %	n/a	n/a	
5.1.5	GMAT mean score.....	406.6	125	○
5.1.6	GMAT test takers/mn pop. 20–34.....	52.5	77	
5.2	Innovation linkages	66.0	4	●
5.2.1	University/industry research collaboration†.....	46.3	53	
5.2.2	State of cluster development†.....	51.8	32	●
5.2.3	R&D financed by abroad, %.....	n/a	n/a	
5.2.4	JV–strategic alliance deals/tr PPP\$ GDP.....	191.0	1	●
5.2.5	PCT patent filings with foreign inventor, %.....	100.0	1	●
5.3	Knowledge absorption	36.2	64	
5.3.1	Royalty & license fees payments/th GDP.....	n/a	n/a	
5.3.2	High-tech imports less re-imports, %	4.9	105	○
5.3.3	Computer & comm. service imports, %.....	34.0	62	
5.3.4	FDI net inflows, % GDP.....	3.2	52	
6	Knowledge & technology outputs	26.8	67	
6.1	Knowledge creation.....	22.8	66	
6.1.1	Domestic resident patent ap/bn PPP\$ GDP.....	n/a	n/a	
6.1.2	PCT resident patent ap/bn PPP\$ GDP.....	0.1	89	○
6.1.3	Domestic res utility model ap/bn PPP\$ GDP.....	n/a	n/a	
6.1.4	Scientific & technical articles/bn PPP\$ GDP.....	1.6	94	
6.2	Knowledge impact	32.0	74	
6.2.1	Growth rate of PPP\$ GDP/worker, %.....	2.0	75	
6.2.2	New businesses/th pop. 15–64.....	1.7	50	
6.2.3	Computer software spending, % GDP.....	n/a	n/a	
6.2.4	ISO 9001 quality certificates/bn PPP\$ GDP.....	5.2	67	
6.3	Knowledge diffusion	25.8	70	
6.3.1	Royalty & license fees receipts/th GDP.....	n/a	n/a	
6.3.2	High-tech exports less re-exports, %.....	0.1	114	○
6.3.3	Computer & comm. service exports, %	21.3	89	
6.3.4	FDI net outflows, % GDP.....	0.2	73	
7	Creative outputs	37.3	41	
7.1	Creative intangibles.....	64.4	8	●
7.1.1	Domestic res trademark reg/bn PPP\$ GDP.....	n/a	n/a	
7.1.2	Madrid resident trademark reg/bn PPP\$ GDP.....	n/a	n/a	
7.1.3	ICT & business model creation†.....	58.7	42	
7.1.4	ICT & organizational model creation†.....	70.1	10	●
7.2	Creative goods & services	7.4	115	○
7.2.1	Recreation & culture consumption, %.....	n/a	n/a	
7.2.2	National feature films/mn pop. 15–69.....	0.0	100	○
7.2.3	Paid-for dailies, circulation/th pop. 15–69.....	143.4	40	
7.2.4	Creative goods exports, %.....	0.2	106	
7.2.5	Creative services exports, %.....	n/a	n/a	
7.3	Online creativity.....	12.9	102	
7.3.1	Generic top-level domains (TLDs)/th pop. 15–69.....	1.2	95	
7.3.2	Country-code TLDs/th pop. 15–69.....	0.3	132	○
7.3.3	Wikipedia monthly edits/mn pop. 15–69.....	294.6	89	
7.3.4	Video uploads on YouTube/pop. 15–69.....	48.8	81	

Key indicators

Population (millions)	175.3
GDP per capita, PPP\$	2,791.8
GDP (US\$ billions)	204.1

	Score (0–100) or value (hard data)	Rank
Global Innovation Index 2012 (out of 141).....	23.1	133
Innovation Output Sub-Index	21.8	110
Innovation Input Sub-Index	24.3	140 ○
Innovation Efficiency Index	0.9	15 ●
Global Innovation Index 2011 (out of 125)	105	
GII 2012 rank among GII 2011 economies (125)	121	
1 Institutions.....	39.0	122
1.1 Political environment	21.1	138 ○
1.1.1 Political stability*.....	0.0	141 ○
1.1.2 Government effectiveness*.....	20.8	116
1.1.3 Press freedom*.....	42.6	123
1.2 Regulatory environment.....	46.9	122
1.2.1 Regulatory quality*.....	36.6	114
1.2.2 Rule of law*.....	26.9	110
1.2.3 Cost of redundancy dismissal, salary weeks.....	27.2	115
1.3 Business environment	49.1	69 ●
1.3.1 Ease of starting a business*.....	51.7	68 ●
1.3.2 Ease of resolving insolvency*.....	56.1	62 ●
1.3.3 Ease of paying taxes*.....	39.5	85
2 Human capital & research.....	10.0	141 ○
2.1 Education.....	10.0	141 ○
2.1.1 Current expenditure on education, % GNI	1.6	133 ○
2.1.2 Public expenditure/pupil, % GDP/cap.....	11.7	100
2.1.3 School life expectancy, years.....	7.3	131 ○
2.1.4 PISA scales in reading, maths, & science.....	n/a	n/a
2.1.5 Pupil-teacher ratio, secondary	41.9	131 ○
2.2 Tertiary education	2.2	140 ○
2.2.1 Tertiary enrolment, % gross.....	6.4	114
2.2.2 Graduates in science & engineering, %	n/a	n/a
2.2.3 Tertiary inbound mobility, %.....	0.0	90 ○
2.2.4 Gross tertiary outbound enrolment, %	0.2	125
2.3 Research & development (R&D).....	17.6	88
2.3.1 Researchers, headcounts/mn pop.	320.8	79
2.3.2 Gross expenditure on R&D, % GDP.....	0.5	58
2.3.3 Quality of scientific research institutions†.....	40.2	76
3 Infrastructure.....	20.9	123
3.1 Information & communication technologies (ICT).....	19.9	105
3.1.1 ICT access*.....	24.0	106
3.1.2 ICT use*	6.0	102
3.1.3 Government's online service*.....	36.6	99
3.1.4 E-participation*.....	13.2	83
3.2 General infrastructure	20.2	137 ○
3.2.1 Electricity output, kWh/cap.....	567.2	106
3.2.2 Electricity consumption, kWh/cap.....	451.4	107
3.2.3 Quality of trade & transport infrastructure*.....	27.0	114
3.2.4 Gross capital formation, % GDP.....	15.4	127
3.3 Ecological sustainability	22.6	101
3.3.1 GDP/unit of energy use, 2000 PPP\$/kg oil eq.....	4.6	80
3.3.2 Environmental performance*.....	39.6	114
3.3.3 ISO 14001 environmental certificates/bn PPP\$ GDP.....	0.6	77
4 Market sophistication	23.4	126
4.1 Credit	19.2	93 ●
4.1.1 Ease of getting credit*.....	50.4	62 ●
4.1.2 Domestic credit to private sector, % GDP.....	21.5	116
4.1.3 Microfinance gross loans, % GDP.....	0.2	63

4.2 Investment.....	22.1	77
4.2.1 Ease of protecting investors*.....	76.2	72 ●
4.2.2 Market capitalization, % GDP.....	21.8	72
4.2.3 Total value of stocks traded, % GDP.....	7.4	52 ●
4.2.4 Venture capital deals/tr PPP\$ GDP.....	0.0	65 ○
4.3 Trade & competition	28.8	139 ○
4.3.1 Applied tariff rate, weighted mean, %.....	9.5	121
4.3.2 Non-agricultural mkt access weighted tariff, %.....	6.8	138 ○
4.3.3 Imports of goods & services, % GDP.....	18.8	135 ○
4.3.4 Exports of goods & services, % GDP.....	13.6	134
4.3.5 Intensity of local competition†	59.0	87
5 Business sophistication	28.3	127
5.1 Knowledge workers.....	30.0	114
5.1.1 Knowledge-intensive employment, %.....	19.5	71
5.1.2 Firms offering formal training, % firms.....	6.7	105 ○
5.1.3 R&D performed by business, %.....	n/a	n/a
5.1.4 R&D financed by business, %	n/a	n/a
5.1.5 GMAT mean score.....	507.6	71 ●
5.1.6 GMAT test takers/mn pop. 20–34.....	22.8	110
5.2 Innovation linkages	27.7	111
5.2.1 University/industry research collaboration†	42.7	66 ●
5.2.2 State of cluster development†	46.2	49 ●
5.2.3 R&D financed by abroad, %.....	0.9	84
5.2.4 JV–strategic alliance deals/tr PPP\$ GDP	3.8	109
5.2.5 PCT patent filings with foreign inventor, %.....	40.0	58
5.3 Knowledge absorption	27.3	110
5.3.1 Royalty & license fees payments/th GDP.....	0.7	81
5.3.2 High-tech imports less re-imports, %	6.3	88
5.3.3 Computer & comm. service imports, %.....	29.3	69
5.3.4 FDI net inflows, % GDP.....	1.1	107
6 Knowledge & technology outputs	18.1	117
6.1 Knowledge creation.....	4.0	124
6.1.1 Domestic resident patent ap/bn PPP\$ GDP	0.2	101
6.1.2 PCT resident patent ap/bn PPP\$ GDP.....	n/a	n/a
6.1.3 Domestic res utility model ap/bn PPP\$ GDP.....	n/a	n/a
6.1.4 Scientific & technical articles/bn PPP\$ GDP.....	2.3	78
6.2 Knowledge impact	24.4	106
6.2.1 Growth rate of PPP\$ GDP/worker, %	1.9	76
6.2.2 New businesses/th pop. 15–64.....	0.0	100 ○
6.2.3 Computer software spending, % GDP.....	0.1	50
6.2.4 ISO 9001 quality certificates/bn PPP\$ GDP	4.5	70 ●
6.3 Knowledge diffusion	25.7	71
6.3.1 Royalty & license fees receipts/th GDP.....	0.0	88
6.3.2 High-tech exports less re-exports, %.....	1.3	69
6.3.3 Computer & comm. service exports, %	38.3	44 ●
6.3.4 FDI net outflows, % GDP	0.0	96
7 Creative outputs	25.6	99
7.1 Creative intangibles.....	31.3	107
7.1.1 Domestic res trademark reg/bn PPP\$ GDP.....	5.1	80
7.1.2 Madrid resident trademark reg/bn PPP\$ GDP.....	n/a	n/a
7.1.3 ICT & business model creation†	48.9	77
7.1.4 ICT & organizational model creation†	42.4	88
7.2 Creative goods & services	28.3	53 ●
7.2.1 Recreation & culture consumption, %.....	1.8	84
7.2.2 National feature films/mn pop. 15–69.....	0.3	93
7.2.3 Paid-for dailies, circulation/th pop. 15–69.....	58.2	80
7.2.4 Creative goods exports, %.....	6.5	5 ●
7.2.5 Creative services exports, %.....	1.5	65
7.3 Online creativity.....	11.4	105
7.3.1 Generic top-level domains (TLDs)/th pop. 15–69.....	0.4	113
7.3.2 Country-code TLDs/th pop. 15–69.....	1.2	123
7.3.3 Wikipedia monthly edits/mn pop. 15–69.....	139.3	101
7.3.4 Video uploads on YouTube/pop. 15–69.....	43.4	92

Panama

Key indicators

Population (millions)	3.6
GDP per capita, PPP\$	13,595.2
GDP (US\$ billions)	30.2

	Score (0–100) or value (hard data)	Rank
Global Innovation Index 2012 (out of 141).....	30.9	87
Innovation Output Sub-Index	23.1	100
Innovation Input Sub-Index	38.7	75
Innovation Efficiency Index	0.6	126
Global Innovation Index 2011 (out of 125)	77	77
GII 2012 rank among GII 2011 economies (125)	82	82

1	Institutions.....	56.5	68
1.1	Political environment	57.6	65
1.1.1	Political stability*.....	65.9	66
1.1.2	Government effectiveness*.....	44.6	58
1.1.3	Press freedom*.....	62.4	88
1.2	Regulatory environment.....	65.7	73
1.2.1	Regulatory quality*.....	62.0	53
1.2.2	Rule of law*.....	44.3	65
1.2.3	Cost of redundancy dismissal, salary weeks.....	19.0	85
1.3	Business environment	46.2	78
1.3.1	Ease of starting a business*.....	85.6	21 ●
1.3.2	Ease of resolving insolvency*.....	47.4	74
1.3.3	Ease of paying taxes*.....	5.7	132 ○

2	Human capital & research.....	30.4	88
2.1	Education.....	42.0	102
2.1.1	Current expenditure on education, % GNI	3.5	89
2.1.2	Public expenditure/pupil, % GDP/cap.....	13.8	93
2.1.3	School life expectancy, years.....	13.2	68
2.1.4	PISA scales in reading, maths, & science.....	368.8	67 ○
2.1.5	Pupil-teacher ratio, secondary	15.3	71
2.2	Tertiary education	32.7	69
2.2.1	Tertiary enrolment, % gross.....	44.6	53
2.2.2	Graduates in science & engineering, %	19.2	59
2.2.3	Tertiary inbound mobility, %.....	n/a	n/a
2.2.4	Gross tertiary outbound enrolment, %	0.8	82
2.3	Research & development (R&D).....	16.4	98
2.3.1	Researchers, headcounts/mn pop.	135.9	92
2.3.2	Gross expenditure on R&D, % GDP.....	0.2	86
2.3.3	Quality of scientific research institutions†	44.0	67

3	Infrastructure.....	37.0	59
3.1	Information & communication technologies (ICT).....	36.3	62
3.1.1	ICT access*.....	47.5	59
3.1.2	ICT use*.....	19.7	63
3.1.3	Government's online service*.....	46.4	78
3.1.4	E-participation*.....	31.6	47
3.2	General infrastructure	35.0	78
3.2.1	Electricity output, kWh/cap.....	2,004.9	77
3.2.2	Electricity consumption, kWh/cap.....	1,739.4	74
3.2.3	Quality of trade & transport infrastructure*.....	40.8	59
3.2.4	Gross capital formation, % GDP.....	26.7	28 ●
3.3	Ecological sustainability	39.6	42
3.3.1	GDP/unit of energy use, 2000 PPP\$/kg oil eq.....	9.8	14 ●
3.3.2	Environmental performance*.....	57.9	38
3.3.3	ISO 14001 environmental certificates/bn PPP\$ GDP.....	0.3	91

4	Market sophistication	29.1	115
4.1	Credit	29.7	74
4.1.1	Ease of getting credit*.....	57.7	43
4.1.2	Domestic credit to private sector, % GDP.....	91.5	37
4.1.3	Microfinance gross loans, % GDP.....	0.1	70

4.2	Investment.....	11.1	112
4.2.1	Ease of protecting investors*.....	29.4	91
4.2.2	Market capitalization, % GDP.....	40.8	53
4.2.3	Total value of stocks traded, % GDP.....	0.7	77
4.2.4	Venture capital deals/tr PPP\$ GDP.....	0.0	65 ○

4.3	Trade & competition	46.5	128
4.3.1	Applied tariff rate, weighted mean, %.....	7.6	105
4.3.2	Non-agricultural mkt access weighted tariff, %.....	7.6	138 ○
4.3.3	Imports of goods & services, % GDP.....	69.2	23 ●
4.3.4	Exports of goods & services, % GDP.....	65.2	22 ●
4.3.5	Intensity of local competition†	70.0	41

5	Business sophistication	40.5	61
5.1	Knowledge workers.....	23.4	127
5.1.1	Knowledge-intensive employment, %.....	17.7	80
5.1.2	Firms offering formal training, % firms.....	11.0	101 ○
5.1.3	R&D performed by business, %.....	0.2	88 ○
5.1.4	R&D financed by business, %	2.2	84 ○
5.1.5	GMAT mean score.....	465.3	100
5.1.6	GMAT test takers/mn pop. 20–34.....	84.1	54

5.2	Innovation linkages	60.0	7 ●
5.2.1	University/industry research collaboration†	43.9	63
5.2.2	State of cluster development†	47.5	43
5.2.3	R&D financed by abroad, %.....	46.6	6 ●
5.2.4	JV–strategic alliance deals/tr PPP\$ GDP	12.3	81
5.2.5	PCT patent filings with foreign inventor, %.....	100.0	1 ●

5.3	Knowledge absorption	38.2	60
5.3.1	Royalty & license fees payments/th GDP.....	1.7	54
5.3.2	High-tech imports less re-imports, %	20.6	6 ●
5.3.3	Computer & comm. service imports, %.....	11.3	121
5.3.4	FDI net inflows, % GDP.....	8.9	16 ●

6	Knowledge & technology outputs	6.4	141 ○
6.1	Knowledge creation.....	3.5	125
6.1.1	Domestic resident patent ap/bn PPP\$ GDP	n/a	n/a
6.1.2	PCT resident patent ap/bn PPP\$ GDP	n/a	n/a
6.1.3	Domestic res utility model ap/bn PPP\$ GDP.....	0.2	49
6.1.4	Scientific & technical articles/bn PPP\$ GDP.....	1.8	86

6.2	Knowledge impact	10.7	132 ○
6.2.1	Growth rate of PPP\$ GDP/worker, %.....	n/a	n/a
6.2.2	New businesses/th pop. 15–64.....	0.3	88
6.2.3	Computer software spending, % GDP.....	0.0	71 ○
6.2.4	ISO 9001 quality certificates/bn PPP\$ GDP	2.3	91

6.3	Knowledge diffusion	4.9	135 ○
6.3.1	Royalty & license fees receipts/th GDP.....	n/a	n/a
6.3.2	High-tech exports less re-exports, %.....	0.1	110 ○
6.3.3	Computer & comm. service exports, %	9.1	120
6.3.4	FDI net outflows, % GDP	n/a	n/a

7	Creative outputs	39.9	36
7.1	Creative intangibles.....	49.9	29
7.1.1	Domestic res trademark reg/bn PPP\$ GDP.....	69.5	20
7.1.2	Madrid resident trademark reg/bn PPP\$ GDP.....	n/a	n/a
7.1.3	ICT & business model creation†	59.0	41
7.1.4	ICT & organizational model creation†	57.8	32

7.2	Creative goods & services	36.5	29
7.2.1	Recreation & culture consumption, %.....	n/a	n/a
7.2.2	National feature films/mn pop. 15–69.....	0.5	86
7.2.3	Paid-for dailies, circulation/th pop. 15–69.....	99.7	57
7.2.4	Creative goods exports, %.....	89.5	1 ●
7.2.5	Creative services exports, %.....	0.0	111 ○

7.3	Online creativity.....	23.4	61
7.3.1	Generic top-level domains (TLDs)/th pop. 15–69.....	17.9	38
7.3.2	Country-code TLDs/th pop. 15–69.....	18.7	78
7.3.3	Wikipedia monthly edits/mn pop. 15–69.....	354.2	85
7.3.4	Video uploads on YouTube/pop. 15–69.....	55.1	69

Key indicators

Population (millions)	6.5
GDP per capita, PPP\$	5,548.9
GDP (US\$ billions)	22.3

	Score (0–100) or value (hard data)	Rank
Global Innovation Index 2012 (out of 141).....	31.6	84
Innovation Output Sub-Index	30.6	62
Innovation Input Sub-Index	32.6	103
Innovation Efficiency Index	0.9	6 ●
Global Innovation Index 2011 (out of 125)	74	
GII 2012 rank among GII 2011 economies (125)	80	

1	Institutions.....	41.7	107
1.1	Political environment	44.8	104
1.1.1	Political stability*.....	44.2	112
1.1.2	Government effectiveness*.....	16.7	129
1.1.3	Press freedom*.....	73.6	63
1.2	Regulatory environment.....	48.6	118
1.2.1	Regulatory quality*.....	42.8	95
1.2.2	Rule of law*.....	23.3	121
1.2.3	Cost of redundancy dismissal, salary weeks.....	26.1	112
1.3	Business environment	31.6	104
1.3.1	Ease of starting a business*.....	41.7	82
1.3.2	Ease of resolving insolvency*.....	12.2	123
1.3.3	Ease of paying taxes*.....	41.0	83
2	Human capital & research.....	23.9	111
2.1	Education.....	45.9	88
2.1.1	Current expenditure on education, % GNI	3.6	85
2.1.2	Public expenditure/pupil, % GDP/cap.....	13.9	92
2.1.3	School life expectancy, years.....	12.1	86
2.1.4	PISA scales in reading, maths, & science.....	n/a	n/a
2.1.5	Pupil-teacher ratio, secondary	11.8	43 ●
2.2	Tertiary education	19.4	105
2.2.1	Tertiary enrolment, % gross.....	36.6	64
2.2.2	Graduates in science & engineering, %	n/a	n/a
2.2.3	Tertiary inbound mobility, %.....	n/a	n/a
2.2.4	Gross tertiary outbound enrolment, %	0.4	104
2.3	Research & development (R&D).....	6.5	135 ○
2.3.1	Researchers, headcounts/mn pop.	136.4	91
2.3.2	Gross expenditure on R&D, % GDP.....	0.1	105 ○
2.3.3	Quality of scientific research institutions†.....	17.7	130 ○
3	Infrastructure.....	28.8	91
3.1	Information & communication technologies (ICT).....	25.3	93
3.1.1	ICT access*.....	30.3	101
3.1.2	ICT use*	9.5	91
3.1.3	Government's online service*.....	45.8	81
3.1.4	E-participation*.....	15.8	78
3.2	General infrastructure	32.1	92
3.2.1	Electricity output, kWh/cap.....	8,755.6	17 ●
3.2.2	Electricity consumption, kWh/cap.....	1,054.8	89
3.2.3	Quality of trade & transport infrastructure*.....	36.0	77
3.2.4	Gross capital formation, % GDP.....	19.5	97
3.3	Ecological sustainability	28.9	74
3.3.1	GDP/unit of energy use, 2000 PPP\$/kg oil eq.....	6.0	52
3.3.2	Environmental performance*.....	52.4	70
3.3.3	ISO 14001 environmental certificates/bn PPP\$ GDP	0.1	121
4	Market sophistication	38.4	69
4.1	Credit	32.8	61
4.1.1	Ease of getting credit*	38.7	72
4.1.2	Domestic credit to private sector, % GDP.....	32.8	90
4.1.3	Microfinance gross loans, % GDP.....	4.2	11 ●

4.2	Investment.....	14.6	100
4.2.1	Ease of protecting investors*.....	58.2	48
4.2.2	Market capitalization, % GDP.....	0.2	107 ○
4.2.3	Total value of stocks traded, % GDP.....	0.1	99
4.2.4	Venture capital deals/tr PPP\$ GDP.....	0.0	65 ○
4.3	Trade & competition	67.9	42 ●
4.3.1	Applied tariff rate, weighted mean, %.....	3.7	61
4.3.2	Non-agricultural mkt access weighted tariff, %.....	0.8	65
4.3.3	Imports of goods & services, % GDP.....	55.0	41 ●
4.3.4	Exports of goods & services, % GDP.....	57.1	28 ●
4.3.5	Intensity of local competition†	57.0	96
5	Business sophistication	30.1	122
5.1	Knowledge workers.....	37.0	98
5.1.1	Knowledge-intensive employment, %.....	14.0	90
5.1.2	Firms offering formal training, % firms.....	54.9	19 ●
5.1.3	R&D performed by business, %.....	n/a	n/a
5.1.4	R&D financed by business, %	0.3	88 ○
5.1.5	GMAT mean score.....	519.0	59
5.1.6	GMAT test takers/mn pop. 20–34.....	4.2	134 ○
5.2	Innovation linkages	25.0	124
5.2.1	University/industry research collaboration†	29.6	117
5.2.2	State of cluster development†.....	31.3	111
5.2.3	R&D financed by abroad, %.....	12.3	26 ●
5.2.4	JV–strategic alliance deals/tr PPP\$ GDP	5.5	102
5.2.5	PCT patent filings with foreign inventor, %.....	n/a	n/a
5.3	Knowledge absorption	28.2	102
5.3.1	Royalty & license fees payments/th GDP.....	0.1	108 ○
5.3.2	High-tech imports less re-imports, %.....	19.0	10 ●
5.3.3	Computer & comm. service imports, %.....	2.8	133 ○
5.3.4	FDI net inflows, % GDP.....	2.3	71
6	Knowledge & technology outputs	36.5	38 ●
6.1	Knowledge creation.....	1.5	138 ○
6.1.1	Domestic resident patent ap/bn PPP\$ GDP	0.5	78
6.1.2	PCT resident patent ap/bn PPP\$ GDP.....	n/a	n/a
6.1.3	Domestic res utility model ap/bn PPP\$ GDP.....	n/a	n/a
6.1.4	Scientific & technical articles/bn PPP\$ GDP.....	0.4	133 ○
6.2	Knowledge impact	47.2	25 ●
6.2.1	Growth rate of PPP\$ GDP/worker, %.....	n/a	n/a
6.2.2	New businesses/th pop. 15–64.....	n/a	n/a
6.2.3	Computer software spending, % GDP.....	n/a	n/a
6.2.4	ISO 9001 quality certificates/bn PPP\$ GDP	6.9	59
6.3	Knowledge diffusion	60.8	8 ●
6.3.1	Royalty & license fees receipts/th GDP.....	13.8	1 ●
6.3.2	High-tech exports less re-exports, %.....	1.1	70
6.3.3	Computer & comm. service exports, %	69.0	5 ●
6.3.4	FDI net outflows, % GDP	0.0	93
7	Creative outputs	24.8	103
7.1	Creative intangibles.....	36.7	85
7.1.1	Domestic res trademark reg/bn PPP\$ GDP.....	n/a	n/a
7.1.2	Madrid resident trademark reg/bn PPP\$ GDP.....	n/a	n/a
7.1.3	ICT & business model creation†.....	45.0	90
7.1.4	ICT & organizational model creation†.....	28.5	124 ○
7.2	Creative goods & services	7.7	114
7.2.1	Recreation & culture consumption, %.....	n/a	n/a
7.2.2	National feature films/mn pop. 15–69.....	1.3	62
7.2.3	Paid-for dailies, circulation/th pop. 15–69.....	28.8	98
7.2.4	Creative goods exports, %.....	0.4	90
7.2.5	Creative services exports, %.....	3.2	50
7.3	Online creativity.....	18.1	83
7.3.1	Generic top-level domains (TLDs)/th pop. 15–69.....	2.2	81
7.3.2	Country-code TLDs/th pop. 15–69.....	20.1	74
7.3.3	Wikipedia monthly edits/mn pop. 15–69.....	735.1	75
7.3.4	Video uploads on YouTube/pop. 15–69.....	46.1	87

Key indicators

Population (millions)	30.0
GDP per capita, PPP\$	10,000.7
GDP (US\$ billions)	168.5

	Score (0–100) or value (hard data)	Rank
Global Innovation Index 2012 (out of 141).....	34.1	75
Innovation Output Sub-Index	25.8	88
Innovation Input Sub-Index	42.3	57
Innovation Efficiency Index	0.6	119
Global Innovation Index 2011 (out of 125)		83
GII 2012 rank among GII 2011 economies (125)		73

1	Institutions.....	56.2	70
1.1	Political environment	46.2	98
1.1.1	Political stability*.....	44.4	111
1.1.2	Government effectiveness*.....	35.5	81
1.1.3	Press freedom*.....	58.6	90
1.2	Regulatory environment.....	70.3	55
1.2.1	Regulatory quality*.....	63.2	52
1.2.2	Rule of law*.....	31.5	101
1.2.3	Cost of redundancy dismissal, salary weeks.....	11.4	46
1.3	Business environment	52.0	65
1.3.1	Ease of starting a business*.....	70.5	42
1.3.2	Ease of resolving insolvency*.....	34.5	92
1.3.3	Ease of paying taxes*.....	51.0	69
2	Human capital & research.....	21.9	117
2.1	Education.....	34.7	120 ○
2.1.1	Current expenditure on education, % GNI	2.1	124 ○
2.1.2	Public expenditure/pupil, % GDP/cap.....	8.2	113 ○
2.1.3	School life expectancy, years.....	13.0	71
2.1.4	PISA scales in reading, maths, & science.....	368.1	68 ○
2.1.5	Pupil-teacher ratio, secondary	16.5	77
2.2	Tertiary education	19.3	106
2.2.1	Tertiary enrolment, % gross.....	35.0	67
2.2.2	Graduates in science & engineering, %	n/a	n/a
2.2.3	Tertiary inbound mobility, %.....	n/a	n/a
2.2.4	Gross tertiary outbound enrolment, %	0.5	94
2.3	Research & development (R&D).....	11.9	121 ○
2.3.1	Researchers, headcounts/mn pop.	182.3	86
2.3.2	Gross expenditure on R&D, % GDP.....	0.1	93
2.3.3	Quality of scientific research institutions†	31.3	106
3	Infrastructure.....	38.0	53
3.1	Information & communication technologies (ICT).....	35.7	65
3.1.1	ICT access*.....	36.2	85
3.1.2	ICT use*.....	15.6	73
3.1.3	Government's online service*.....	51.6	61
3.1.4	E-participation*.....	39.5	38 ●
3.2	General infrastructure	32.5	90
3.2.1	Electricity output, kWh/cap.....	1,214.9	87
3.2.2	Electricity consumption, kWh/cap.....	1,120.1	88
3.2.3	Quality of trade & transport infrastructure*.....	41.5	55
3.2.4	Gross capital formation, % GDP.....	24.4	46
3.3	Ecological sustainability	45.6	24 ●
3.3.1	GDP/unit of energy use, 2000 PPP\$/kg oil eq.....	12.3	4 ●
3.3.2	Environmental performance*.....	50.3	78
3.3.3	ISO 14001 environmental certificates/bn PPP\$ GDP	1.5	52
4	Market sophistication	54.8	25 ●
4.1	Credit	61.2	14 ●
4.1.1	Ease of getting credit*.....	77.4	21 ●
4.1.2	Domestic credit to private sector, % GDP.....	24.3	106
4.1.3	Microfinance gross loans, % GDP.....	8.3	1 ●

4.2	Investment.....	37.1	37 ●
4.2.1	Ease of protecting investors*.....	82.0	20 ●
4.2.2	Market capitalization, % GDP.....	64.9	36
4.2.3	Total value of stocks traded, % GDP.....	2.6	63
4.2.4	Venture capital deals/tr PPP\$ GDP.....	10.0	46
4.3	Trade & competition	66.1	58
4.3.1	Applied tariff rate, weighted mean, %.....	2.5	52
4.3.2	Non-agricultural mkt access weighted tariff, %.....	0.3	36 ●
4.3.3	Imports of goods & services, % GDP.....	22.2	129 ○
4.3.4	Exports of goods & services, % GDP.....	25.1	110
4.3.5	Intensity of local competition†	68.2	53
5	Business sophistication	40.6	59
5.1	Knowledge workers.....	53.7	46
5.1.1	Knowledge-intensive employment, %.....	18.5	75
5.1.2	Firms offering formal training, % firms.....	60.1	15 ●
5.1.3	R&D performed by business, %.....	29.2	54
5.1.4	R&D financed by business, %	n/a	n/a
5.1.5	GMAT mean score.....	550.5	36 ●
5.1.6	GMAT test takers/mn pop. 20–34.....	72.3	61
5.2	Innovation linkages	35.9	65
5.2.1	University/industry research collaboration†	36.5	100
5.2.2	State of cluster development†	41.9	64
5.2.3	R&D financed by abroad, %.....	n/a	n/a
5.2.4	JV–strategic alliance deals/tr PPP\$ GDP	17.7	69
5.2.5	PCT patent filings with foreign inventor, %.....	50.0	48
5.3	Knowledge absorption	32.2	84
5.3.1	Royalty & license fees payments/th GDP.....	1.3	64
5.3.2	High-tech imports less re-imports, %	9.7	54
5.3.3	Computer & comm. service imports, %.....	28.0	71
5.3.4	FDI net inflows, % GDP.....	4.7	39 ●
6	Knowledge & technology outputs	20.3	105
6.1	Knowledge creation.....	7.7	117
6.1.1	Domestic resident patent ap/bn PPP\$ GDP	0.1	103 ○
6.1.2	PCT resident patent ap/bn PPP\$ GDP	0.0	104 ○
6.1.3	Domestic res utility model ap/bn PPP\$ GDP.....	0.3	46
6.1.4	Scientific & technical articles/bn PPP\$ GDP.....	0.6	126 ○
6.2	Knowledge impact	36.4	58
6.2.1	Growth rate of PPP\$ GDP/worker, %.....	6.1	10 ●
6.2.2	New businesses/th pop. 15–64.....	2.7	36
6.2.3	Computer software spending, % GDP.....	0.1	61
6.2.4	ISO 9001 quality certificates/bn PPP\$ GDP	4.7	68
6.3	Knowledge diffusion	16.7	117
6.3.1	Royalty & license fees receipts/th GDP.....	0.0	86
6.3.2	High-tech exports less re-exports, %.....	0.8	78
6.3.3	Computer & comm. service exports, %	11.9	114 ○
6.3.4	FDI net outflows, % GDP	0.1	78
7	Creative outputs	31.4	72
7.1	Creative intangibles.....	49.1	30 ●
7.1.1	Domestic res trademark reg/bn PPP\$ GDP.....	n/a	n/a
7.1.2	Madrid resident trademark reg/bn PPP\$ GDP.....	n/a	n/a
7.1.3	ICT & business model creation†	55.9	54
7.1.4	ICT & organizational model creation†	42.3	89
7.2	Creative goods & services	5.8	119
7.2.1	Recreation & culture consumption, %.....	1.7	87 ○
7.2.2	National feature films/mn pop. 15–69.....	0.4	87 ○
7.2.3	Paid-for dailies, circulation/th pop. 15–69.....	n/a	n/a
7.2.4	Creative goods exports, %.....	0.6	85
7.2.5	Creative services exports, %.....	0.2	95
7.3	Online creativity.....	21.7	69
7.3.1	Generic top-level domains (TLDs)/th pop. 15–69.....	2.8	76
7.3.2	Country-code TLDs/th pop. 15–69.....	19.3	77
7.3.3	Wikipedia monthly edits/mn pop. 15–69.....	988.4	65
7.3.4	Video uploads on YouTube/pop. 15–69.....	59.7	58

Key indicators

Population (millions)	95.8
GDP per capita, PPP\$	4,111.1
GDP (US\$ billions)	216.1

	Score (0–100) or value (hard data)	Rank
Global Innovation Index 2012 (out of 141).....	29.0	95
Innovation Output Sub-Index	26.3	83
Innovation Input Sub-Index	31.7	106
Innovation Efficiency Index	0.8	32 ●
Global Innovation Index 2011 (out of 125)	91	
GII 2012 rank among GII 2011 economies (125)	90	

1	Institutions.....	34.6	132	○
1.1	Political environment	38.5	121	
1.1.1	Political stability*.....	27.7	134	○
1.1.2	Government effectiveness*.....	38.2	72	
1.1.3	Press freedom*.....	49.7	114	
1.2	Regulatory environment.....	50.4	116	
1.2.1	Regulatory quality*.....	45.0	90	
1.2.2	Rule of law*.....	33.4	97	
1.2.3	Cost of redundancy dismissal, salary weeks.....	27.4	120	
1.3	Business environment	14.8	133	○
1.3.1	Ease of starting a business*.....	9.3	127	○
1.3.2	Ease of resolving insolvency*.....	2.8	136	○
1.3.3	Ease of paying taxes*.....	32.3	95	
2	Human capital & research.....	20.7	121	
2.1	Education.....	23.6	135	○
2.1.1	Current expenditure on education, % GNI	2.5	119	
2.1.2	Public expenditure/pupil, % GDP/cap.....	9.4	110	○
2.1.3	School life expectancy, years.....	11.7	94	
2.1.4	PISA scales in reading, maths, & science.....	n/a	n/a	
2.1.5	Pupil-teacher ratio, secondary	34.8	126	○
2.2	Tertiary education	26.4	87	
2.2.1	Tertiary enrolment, % gross.....	28.9	75	
2.2.2	Graduates in science & engineering, %	24.3	30	●
2.2.3	Tertiary inbound mobility, %.....	0.0	90	○
2.2.4	Gross tertiary outbound enrolment, %	0.1	139	○
2.3	Research & development (R&D).....	12.2	120	
2.3.1	Researchers, headcounts/mn pop.	129.6	94	
2.3.2	Gross expenditure on R&D, % GDP.....	0.1	96	
2.3.3	Quality of scientific research institutions†.....	33.5	103	
3	Infrastructure.....	33.8	69	
3.1	Information & communication technologies (ICT).....	29.2	80	
3.1.1	ICT access*.....	31.4	96	
3.1.2	ICT use*	14.9	78	
3.1.3	Government's online service*.....	49.7	67	
3.1.4	E-participation*.....	21.1	63	
3.2	General infrastructure	28.2	112	
3.2.1	Electricity output, kWh/cap.....	671.4	101	
3.2.2	Electricity consumption, kWh/cap.....	591.7	102	
3.2.3	Quality of trade & transport infrastructure*.....	39.3	64	
3.2.4	Gross capital formation, % GDP.....	20.5	87	
3.3	Ecological sustainability	44.1	29	●
3.3.1	GDP/unit of energy use, 2000 PPP\$/kg oil eq.....	11.6	6	●
3.3.2	Environmental performance*.....	57.4	41	●
3.3.3	ISO 14001 environmental certificates/bn PPP\$ GDP	0.6	74	
4	Market sophistication	30.7	106	
4.1	Credit	11.0	120	
4.1.1	Ease of getting credit*	21.1	104	
4.1.2	Domestic credit to private sector, % GDP.....	29.6	94	
4.1.3	Microfinance gross loans, % GDP.....	0.3	53	

4.2	Investment.....	18.6	89	
4.2.1	Ease of protecting investors*.....	15.8	110	
4.2.2	Market capitalization, % GDP.....	78.8	27	●
4.2.3	Total value of stocks traded, % GDP.....	13.4	45	
4.2.4	Venture capital deals/tr PPP\$ GDP.....	2.5	63	
4.3	Trade & competition	62.5	74	
4.3.1	Applied tariff rate, weighted mean, %.....	4.8	76	
4.3.2	Non-agricultural mkt access weighted tariff, %.....	1.3	81	
4.3.3	Imports of goods & services, % GDP.....	36.6	82	
4.3.4	Exports of goods & services, % GDP.....	34.8	79	
4.3.5	Intensity of local competition†	69.4	45	●
5	Business sophistication	38.8	72	
5.1	Knowledge workers.....	48.3	62	
5.1.1	Knowledge-intensive employment, %.....	19.7	69	
5.1.2	Firms offering formal training, % firms.....	31.1	61	
5.1.3	R&D performed by business, %.....	56.9	26	●
5.1.4	R&D financed by business, %	62.0	12	●
5.1.5	GMAT mean score.....	531.6	52	
5.1.6	GMAT test takers/mn pop. 20–34.....	15.9	119	
5.2	Innovation linkages	34.9	70	
5.2.1	University/industry research collaboration†	39.9	80	
5.2.2	State of cluster development†	44.8	54	
5.2.3	R&D financed by abroad, %.....	4.1	66	
5.2.4	JV–strategic alliance deals/tr PPP\$ GDP	46.7	28	●
5.2.5	PCT patent filings with foreign inventor, %.....	66.7	43	
5.3	Knowledge absorption	33.1	79	
5.3.1	Royalty & license fees payments/th GDP.....	2.2	43	
5.3.2	High-tech imports less re-imports, %	n/a	n/a	
5.3.3	Computer & comm. service imports, %.....	22.6	91	
5.3.4	FDI net inflows, % GDP.....	0.9	113	
6	Knowledge & technology outputs	28.9	59	
6.1	Knowledge creation.....	14.0	102	
6.1.1	Domestic resident patent ap/bn PPP\$ GDP	0.5	82	
6.1.2	PCT resident patent ap/bn PPP\$ GDP.....	0.0	92	
6.1.3	Domestic res utility model ap/bn PPP\$ GDP.....	1.6	22	
6.1.4	Scientific & technical articles/bn PPP\$ GDP.....	0.7	125	
6.2	Knowledge impact	26.7	94	
6.2.1	Growth rate of PPP\$ GDP/worker, %.....	4.6	25	●
6.2.2	New businesses/th pop. 15–64.....	0.2	91	○
6.2.3	Computer software spending, % GDP.....	0.1	70	○
6.2.4	ISO 9001 quality certificates/bn PPP\$ GDP	2.6	88	
6.3	Knowledge diffusion	46.1	26	●
6.3.1	Royalty & license fees receipts/th GDP.....	0.0	85	
6.3.2	High-tech exports less re-exports, %.....	n/a	n/a	
6.3.3	Computer & comm. service exports, %	67.2	7	●
6.3.4	FDI net outflows, % GDP	0.2	68	
7	Creative outputs	23.7	108	
7.1	Creative intangibles.....	34.9	94	
7.1.1	Domestic res trademark reg/bn PPP\$ GDP.....	20.8	62	
7.1.2	Madrid resident trademark reg/bn PPP\$ GDP.....	n/a	n/a	
7.1.3	ICT & business model creation†	54.1	58	
7.1.4	ICT & organizational model creation†	40.7	96	
7.2	Creative goods & services	7.1	117	
7.2.1	Recreation & culture consumption, %.....	0.5	97	○
7.2.2	National feature films/mn pop. 15–69.....	1.4	59	
7.2.3	Paid-for dailies, circulation/th pop. 15–69.....	66.7	72	
7.2.4	Creative goods exports, %.....	1.0	70	
7.2.5	Creative services exports, %.....	0.8	74	
7.3	Online creativity.....	17.8	84	
7.3.1	Generic top-level domains (TLDs)/th pop. 15–69.....	1.2	94	
7.3.2	Country-code TLDs/th pop. 15–69.....	11.9	92	
7.3.3	Wikipedia monthly edits/mn pop. 15–69.....	601.0	77	
7.3.4	Video uploads on YouTube/pop. 15–69.....	55.2	68	

Key indicators

Population (millions)	38.1
GDP per capita, PPP\$	20,136.9
GDP (US\$ billions)	531.8

	Score (0–100) or value (hard data)	Rank
Global Innovation Index 2012 (out of 141).....	40.4	44
Innovation Output Sub-Index	33.6	50
Innovation Input Sub-Index	47.1	41
Innovation Efficiency Index	0.7	80
Global Innovation Index 2011 (out of 125)	43	43
GII 2012 rank among GII 2011 economies (125)	43	

1	Institutions.....	68.1	45
1.1	Political environment	80.9	26
1.1.1	Political stability*.....	89.4	15 ●
1.1.2	Government effectiveness*.....	59.5	39
1.1.3	Press freedom*.....	93.7	22 ●
1.2	Regulatory environment.....	83.5	27
1.2.1	Regulatory quality*.....	76.5	33
1.2.2	Rule of law*.....	65.9	39
1.2.3	Cost of redundancy dismissal, salary weeks.....	10.1	37
1.3	Business environment	40.0	95 ○
1.3.1	Ease of starting a business*.....	34.5	92
1.3.2	Ease of resolving insolvency*.....	53.9	65
1.3.3	Ease of paying taxes*.....	31.6	96 ○
2	Human capital & research.....	40.5	53
2.1	Education.....	61.4	30
2.1.1	Current expenditure on education, % GNI	4.8	44
2.1.2	Public expenditure/pupil, % GDP/cap.....	22.7	44
2.1.3	School life expectancy, years.....	15.2	32
2.1.4	PISA scales in reading, maths, & science.....	501.1	15
2.1.5	Pupil-teacher ratio, secondary	10.7	37
2.2	Tertiary education	31.5	73
2.2.1	Tertiary enrolment, % gross.....	70.5	19 ●
2.2.2	Graduates in science & engineering, %	15.7	73 ○
2.2.3	Tertiary inbound mobility, %.....	0.8	77 ○
2.2.4	Gross tertiary outbound enrolment, %	1.1	71
2.3	Research & development (R&D).....	28.7	46
2.3.1	Researchers, headcounts/mn pop.	2,550.4	36
2.3.2	Gross expenditure on R&D, % GDP.....	0.7	44
2.3.3	Quality of scientific research institutions†	51.8	42
3	Infrastructure.....	39.7	48
3.1	Information & communication technologies (ICT).....	43.8	50
3.1.1	ICT access*.....	64.9	35
3.1.2	ICT use*.....	38.4	40
3.1.3	Government's online service*.....	53.6	55
3.1.4	E-participation*.....	18.4	71
3.2	General infrastructure	37.2	63
3.2.1	Electricity output, kWh/cap.....	4,120.9	50
3.2.2	Electricity consumption, kWh/cap.....	3,768.0	48
3.2.3	Quality of trade & transport infrastructure*.....	49.5	42
3.2.4	Gross capital formation, % GDP.....	21.0	83
3.3	Ecological sustainability	38.2	50
3.3.1	GDP/unit of energy use, 2000 PPP\$/kg oil eq.....	5.8	56
3.3.2	Environmental performance*.....	63.5	22 ●
3.3.3	ISO 14001 environmental certificates/bn PPP\$ GDP.....	2.5	37
4	Market sophistication	44.8	44
4.1	Credit	35.0	52
4.1.1	Ease of getting credit*.....	87.6	8 ●
4.1.2	Domestic credit to private sector, % GDP.....	54.8	58
4.1.3	Microfinance gross loans, % GDP.....	0.0	80 ○

4.2	Investment.....	33.0	47
4.2.1	Ease of protecting investors*.....	66.9	35
4.2.2	Market capitalization, % GDP.....	40.6	54
4.2.3	Total value of stocks traded, % GDP.....	16.5	40
4.2.4	Venture capital deals/tr PPP\$ GDP.....	9.1	49
4.3	Trade & competition	66.5	54
4.3.1	Applied tariff rate, weighted mean, %.....	1.6	11
4.3.2	Non-agricultural mkt access weighted tariff, %.....	2.0	92 ○
4.3.3	Imports of goods & services, % GDP.....	43.5	62
4.3.4	Exports of goods & services, % GDP.....	42.3	56
4.3.5	Intensity of local competition†	72.3	36
5	Business sophistication	42.3	52
5.1	Knowledge workers.....	57.3	39
5.1.1	Knowledge-intensive employment, %.....	32.8	35
5.1.2	Firms offering formal training, % firms.....	60.9	14 ●
5.1.3	R&D performed by business, %.....	28.5	56
5.1.4	R&D financed by business, %	27.1	54
5.1.5	GMAT mean score.....	549.6	37
5.1.6	GMAT test takers/mn pop. 20–34.....	37.3	96 ○
5.2	Innovation linkages	23.6	126 ○
5.2.1	University/industry research collaboration†	43.9	62
5.2.2	State of cluster development†	32.6	107 ○
5.2.3	R&D financed by abroad, %.....	5.5	59
5.2.4	JV–strategic alliance deals/tr PPP\$ GDP	7.6	95
5.2.5	PCT patent filings with foreign inventor, %.....	12.0	89 ○
5.3	Knowledge absorption	45.9	27
5.3.1	Royalty & license fees payments/th GDP.....	4.8	16 ●
5.3.2	High-tech imports less re-imports, %	11.7	34
5.3.3	Computer & comm. service imports, %.....	45.9	23 ●
5.3.4	FDI net inflows, % GDP.....	1.9	77
6	Knowledge & technology outputs	32.9	51
6.1	Knowledge creation.....	31.1	49
6.1.1	Domestic resident patent ap/bn PPP\$ GDP	4.7	33
6.1.2	PCT resident patent ap/bn PPP\$ GDP.....	0.3	50
6.1.3	Domestic res utility model ap/bn PPP\$ GDP.....	1.2	28
6.1.4	Scientific & technical articles/bn PPP\$ GDP.....	10.7	35
6.2	Knowledge impact	36.0	59
6.2.1	Growth rate of PPP\$ GDP/worker, %.....	2.5	59
6.2.2	New businesses/th pop. 15–64.....	0.5	81 ○
6.2.3	Computer software spending, % GDP.....	0.4	25
6.2.4	ISO 9001 quality certificates/bn PPP\$ GDP	16.9	32
6.3	Knowledge diffusion	31.7	48
6.3.1	Royalty & license fees receipts/th GDP.....	0.5	44
6.3.2	High-tech exports less re-exports, %.....	6.1	35
6.3.3	Computer & comm. service exports, %	41.8	38
6.3.4	FDI net outflows, % GDP	1.2	36
7	Creative outputs	34.3	60
7.1	Creative intangibles.....	28.6	117 ○
7.1.1	Domestic res trademark reg/bn PPP\$ GDP.....	46.7	37
7.1.2	Madrid resident trademark reg/bn PPP\$ GDP.....	0.4	36
7.1.3	ICT & business model creation†	47.9	80
7.1.4	ICT & organizational model creation†	35.4	110 ○
7.2	Creative goods & services	36.0	31
7.2.1	Recreation & culture consumption, %.....	7.0	34
7.2.2	National feature films/mn pop. 15–69.....	1.5	57
7.2.3	Paid-for dailies, circulation/th pop. 15–69.....	110.4	51
7.2.4	Creative goods exports, %.....	3.1	25
7.2.5	Creative services exports, %.....	10.8	18 ●
7.3	Online creativity.....	44.0	31
7.3.1	Generic top-level domains (TLDs)/th pop. 15–69.....	25.9	32
7.3.2	Country-code TLDs/th pop. 15–69.....	61.6	19 ●
7.3.3	Wikipedia monthly edits/mn pop. 15–69.....	4,624.0	31
7.3.4	Video uploads on YouTube/pop. 15–69.....	65.0	39

Key indicators

Population (millions)	10.7
GDP per capita, PPP\$	23,204.5
GDP (US\$ billions)	241.9

	Score (0–100) or value (hard data)	Rank
Global Innovation Index 2012 (out of 141).....	45.3	35
Innovation Output Sub-Index	38.7	33
Innovation Input Sub-Index	51.9	33
Innovation Efficiency Index	0.7	67
Global Innovation Index 2011 (out of 125)		33
GII 2012 rank among GII 2011 economies (125)		34
1 Institutions.....	70.6	34
1.1 Political environment	79.9	28
1.1.1 Political stability*.....	81.7	33
1.1.2 Government effectiveness*.....	68.2	29
1.1.3 Press freedom*.....	89.6	30
1.2 Regulatory environment.....	61.4	84
1.2.1 Regulatory quality*.....	72.5	38
1.2.2 Rule of law*.....	75.3	27
1.2.3 Cost of redundancy dismissal, salary weeks.....	33.9	128 ○
1.3 Business environment	70.7	30
1.3.1 Ease of starting a business*.....	66.1	47
1.3.2 Ease of resolving insolvency*.....	87.0	19 ●
1.3.3 Ease of paying taxes*.....	58.9	58
2 Human capital & research.....	55.6	15 ●
2.1 Education.....	66.6	12 ●
2.1.1 Current expenditure on education, % GNI	5.3	30
2.1.2 Public expenditure/pupil, % GDP/cap.....	24.8	27
2.1.3 School life expectancy, years.....	16.0	19 ●
2.1.4 PISA scales in reading, maths, & science.....	489.7	27
2.1.5 Pupil-teacher ratio, secondary	7.3	6 ●
2.2 Tertiary education	48.0	26
2.2.1 Tertiary enrolment, % gross.....	62.2	28
2.2.2 Graduates in science & engineering, %	28.8	11 ●
2.2.3 Tertiary inbound mobility, %.....	2.4	51
2.2.4 Gross tertiary outbound enrolment, %	2.1	46
2.3 Research & development (R&D).....	52.2	19 ●
2.3.1 Researchers, headcounts/mn pop.	7,059.3	5 ●
2.3.2 Gross expenditure on R&D, % GDP.....	1.7	23
2.3.3 Quality of scientific research institutions†.....	65.5	22
3 Infrastructure.....	46.5	32
3.1 Information & communication technologies (ICT).....	56.4	29
3.1.1 ICT access*.....	71.4	25
3.1.2 ICT use*	51.9	22
3.1.3 Government's online service*.....	65.4	38
3.1.4 E-participation*.....	36.8	41
3.2 General infrastructure	39.0	56
3.2.1 Electricity output, kWh/cap.....	4,952.5	45
3.2.2 Electricity consumption, kWh/cap.....	4,888.9	41
3.2.3 Quality of trade & transport infrastructure*.....	54.3	34
3.2.4 Gross capital formation, % GDP.....	19.0	102 ○
3.3 Ecological sustainability	44.0	30
3.3.1 GDP/unit of energy use, 2000 PPP\$/kg oil eq.....	8.2	26
3.3.2 Environmental performance*.....	57.6	40
3.3.3 ISO 14001 environmental certificates/bn PPP\$ GDP	3.4	27
4 Market sophistication	47.4	37
4.1 Credit	43.8	37
4.1.1 Ease of getting credit*	21.1	104 ○
4.1.2 Domestic credit to private sector, % GDP.....	190.8	8 ●
4.1.3 Microfinance gross loans, % GDP	n/a	n/a

4.2 Investment.....	35.3	43
4.2.1 Ease of protecting investors*.....	66.9	35
4.2.2 Market capitalization, % GDP.....	35.9	58
4.2.3 Total value of stocks traded, % GDP.....	13.7	44
4.2.4 Venture capital deals/tr PPP\$ GDP.....	20.2	38
4.3 Trade & competition	63.3	73
4.3.1 Applied tariff rate, weighted mean, %.....	1.6	11
4.3.2 Non-agricultural mkt access weighted tariff, %.....	2.0	92 ○
4.3.3 Imports of goods & services, % GDP	38.1	77
4.3.4 Exports of goods & services, % GDP	30.9	85
4.3.5 Intensity of local competition†	67.7	54
5 Business sophistication	39.3	65
5.1 Knowledge workers.....	52.5	51
5.1.1 Knowledge-intensive employment, %.....	24.4	51
5.1.2 Firms offering formal training, % firms.....	31.9	60
5.1.3 R&D performed by business, %.....	46.7	36
5.1.4 R&D financed by business, %	48.1	25
5.1.5 GMAT mean score.....	536.6	48
5.1.6 GMAT test takers/mn pop. 20–34.....	287.2	21 ●
5.2 Innovation linkages	30.0	100 ○
5.2.1 University/industry research collaboration†	60.0	26
5.2.2 State of cluster development†	42.2	62
5.2.3 R&D financed by abroad, %.....	3.0	70 ○
5.2.4 JV–strategic alliance deals/tr PPP\$ GDP	9.5	90 ○
5.2.5 PCT patent filings with foreign inventor, %.....	20.5	76 ○
5.3 Knowledge absorption	35.5	67
5.3.1 Royalty & license fees payments/th GDP.....	2.4	39
5.3.2 High-tech imports less re-imports, %	7.9	73
5.3.3 Computer & comm. service imports, %.....	40.0	38
5.3.4 FDI net inflows, % GDP	0.6	117 ○
6 Knowledge & technology outputs	33.8	49
6.1 Knowledge creation.....	33.0	44
6.1.1 Domestic resident patent ap/bn PPP\$ GDP	2.3	49
6.1.2 PCT resident patent ap/bn PPP\$ GDP	0.4	45
6.1.3 Domestic res utility model ap/bn PPP\$ GDP.....	0.4	40 ○
6.1.4 Scientific & technical articles/bn PPP\$ GDP.....	17.2	16 ●
6.2 Knowledge impact	45.2	30
6.2.1 Growth rate of PPP\$ GDP/worker, %	2.7	58
6.2.2 New businesses/th pop. 15–64.....	3.9	28
6.2.3 Computer software spending, % GDP.....	0.6	20
6.2.4 ISO 9001 quality certificates/bn PPP\$ GDP	22.6	22
6.3 Knowledge diffusion	23.2	85
6.3.1 Royalty & license fees receipts/th GDP.....	0.2	62
6.3.2 High-tech exports less re-exports, %.....	2.9	52
6.3.3 Computer & comm. service exports, %	29.9	60
6.3.4 FDI net outflows, % GDP	–3.6	115 ○
7 Creative outputs	43.6	28
7.1 Creative intangibles.....	48.1	34
7.1.1 Domestic res trademark reg/bn PPP\$ GDP.....	99.9	8 ●
7.1.2 Madrid resident trademark reg/bn PPP\$ GDP.....	0.6	32
7.1.3 ICT & business model creation†	64.8	29
7.1.4 ICT & organizational model creation†	68.1	12 ●
7.2 Creative goods & services	34.3	35
7.2.1 Recreation & culture consumption, %.....	7.5	29
7.2.2 National feature films/mn pop. 15–69.....	4.4	26
7.2.3 Paid-for dailies, circulation/th pop. 15–69.....	69.5	69
7.2.4 Creative goods exports, %.....	2.7	30
7.2.5 Creative services exports, %.....	7.7	25
7.3 Online creativity.....	43.7	32
7.3.1 Generic top-level domains (TLDs)/th pop. 15–69.....	26.6	30
7.3.2 Country-code TLDs/th pop. 15–69.....	55.8	29
7.3.3 Wikipedia monthly edits/mn pop. 15–69.....	4,431.2	32
7.3.4 Video uploads on YouTube/pop. 15–69	70.0	26

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Key indicators

Population (millions)	1.8
GDP per capita, PPP\$	102,891.2
GDP (US\$ billions)	173.2

	Score (0–100) or value (hard data)	Rank
Global Innovation Index 2012 (out of 141).....	45.5	33
Innovation Output Sub-Index	36.9	41
Innovation Input Sub-Index	54.1	30
Innovation Efficiency Index	0.7	91
Global Innovation Index 2011 (out of 125)	26	
GII 2012 rank among GII 2011 economies (125)	32	
1 Institutions.....	70.2	35
1.1 Political environment	72.9	40
1.1.1 Political stability*.....	91.0	11
1.1.2 Government effectiveness*.....	65.5	33
1.1.3 Press freedom*.....	62.2	89
1.2 Regulatory environment.....	69.0	63
1.2.1 Regulatory quality*.....	65.5	47
1.2.2 Rule of law*.....	70.8	32
1.2.3 Cost of redundancy dismissal, salary weeks.....	23.2	107
1.3 Business environment	68.8	31
1.3.1 Ease of starting a business*.....	28.7	100
1.3.2 Ease of resolving insolvency*.....	77.6	32
1.3.3 Ease of paying taxes*.....	100.0	1 ●
2 Human capital & research.....	55.7	14
2.1 Education.....	40.6	105
2.1.1 Current expenditure on education, % GNI	1.8	129 ○
2.1.2 Public expenditure/pupil, % GDP/cap.....	15.9	87
2.1.3 School life expectancy, years.....	12.2	82
2.1.4 PISA scales in reading, maths, & science.....	373.1	66 ○
2.1.5 Pupil-teacher ratio, secondary	9.9	27
2.2 Tertiary education	45.9	32
2.2.1 Tertiary enrolment, % gross.....	10.0	107 ○
2.2.2 Graduates in science & engineering, %	24.0	32
2.2.3 Tertiary inbound mobility, %.....	38.9	3 ●
2.2.4 Gross tertiary outbound enrolment, %	1.9	48
2.3 Research & development (R&D).....	80.5	2 ●
2.3.1 Researchers, headcounts/mn pop.	n/a	n/a
2.3.2 Gross expenditure on R&D, % GDP.....	n/a	n/a
2.3.3 Quality of scientific research institutions†	80.5	6 ●
3 Infrastructure.....	49.0	27
3.1 Information & communication technologies (ICT).....	61.4	25
3.1.1 ICT access*.....	70.9	27
3.1.2 ICT use*.....	37.5	41
3.1.3 Government's online service*.....	73.9	27
3.1.4 E-participation*.....	63.2	22
3.2 General infrastructure	67.4	3 ●
3.2.1 Electricity output, kWh/cap.....	15,128.7	7 ●
3.2.2 Electricity consumption, kWh/cap.....	16,352.7	7 ●
3.2.3 Quality of trade & transport infrastructure*.....	43.8	50
3.2.4 Gross capital formation, % GDP.....	38.9	5 ●
3.3 Ecological sustainability	18.2	117 ○
3.3.1 GDP/unit of energy use, 2000 PPP\$/kg oil eq.....	1.5	122 ○
3.3.2 Environmental performance*.....	46.6	95
3.3.3 ISO 14001 environmental certificates/bn PPP\$ GDP	0.6	76
4 Market sophistication	35.3	84
4.1 Credit	15.6	107
4.1.1 Ease of getting credit*.....	15.3	112 ○
4.1.2 Domestic credit to private sector, % GDP.....	51.5	62
4.1.3 Microfinance gross loans, % GDP.....	n/a	n/a

4.2 Investment.....	21.0	80
4.2.1 Ease of protecting investors*.....	35.9	76
4.2.2 Market capitalization, % GDP.....	89.4	19
4.2.3 Total value of stocks traded, % GDP.....	25.9	35
4.2.4 Venture capital deals/tr PPP\$ GDP.....	0.0	65 ○
4.3 Trade & competition	69.2	32
4.3.1 Applied tariff rate, weighted mean, %.....	3.8	63
4.3.2 Non-agricultural mkt access weighted tariff, %.....	1.0	72
4.3.3 Imports of goods & services, % GDP.....	31.2	103
4.3.4 Exports of goods & services, % GDP.....	46.7	50
4.3.5 Intensity of local competition†	81.4	4 ●
5 Business sophistication	60.3	8
5.1 Knowledge workers.....	48.6	61
5.1.1 Knowledge-intensive employment, %.....	24.2	52
5.1.2 Firms offering formal training, % firms.....	n/a	n/a
5.1.3 R&D performed by business, %.....	n/a	n/a
5.1.4 R&D financed by business, %	n/a	n/a
5.1.5 GMAT mean score.....	485.2	81
5.1.6 GMAT test takers/mn pop. 20–34.....	43.4	88
5.2 Innovation linkages	67.8	3 ●
5.2.1 University/industry research collaboration†	71.2	10
5.2.2 State of cluster development†	63.9	8
5.2.3 R&D financed by abroad, %.....	n/a	n/a
5.2.4 JV–strategic alliance deals/tr PPP\$ GDP	116.1	10
5.2.5 PCT patent filings with foreign inventor, %.....	n/a	n/a
5.3 Knowledge absorption	64.6	5 ●
5.3.1 Royalty & license fees payments/th GDP.....	n/a	n/a
5.3.2 High-tech imports less re-imports, %.....	n/a	n/a
5.3.3 Computer & comm. service imports, %.....	n/a	n/a
5.3.4 FDI net inflows, % GDP.....	8.3	18
6 Knowledge & technology outputs.....	25.2	77
6.1 Knowledge creation.....	1.5	139 ○
6.1.1 Domestic resident patent ap/bn PPP\$ GDP	n/a	n/a
6.1.2 PCT resident patent ap/bn PPP\$ GDP.....	n/a	n/a
6.1.3 Domestic res utility model ap/bn PPP\$ GDP.....	n/a	n/a
6.1.4 Scientific & technical articles/bn PPP\$ GDP.....	0.5	131 ○
6.2 Knowledge impact	74.2	1 ●
6.2.1 Growth rate of PPP\$ GDP/worker, %.....	14.8	1 ●
6.2.2 New businesses/th pop. 15–64.....	n/a	n/a
6.2.3 Computer software spending, % GDP.....	n/a	n/a
6.2.4 ISO 9001 quality certificates/bn PPP\$ GDP	1.8	97
6.3 Knowledge diffusion	0.0	139 ○
6.3.1 Royalty & license fees receipts/th GDP.....	n/a	n/a
6.3.2 High-tech exports less re-exports, %.....	0.0	121 ○
6.3.3 Computer & comm. service exports, %	n/a	n/a
6.3.4 FDI net outflows, % GDP	n/a	n/a
7 Creative outputs	48.6	19
7.1 Creative intangibles.....	76.2	1 ●
7.1.1 Domestic res trademark reg/bn PPP\$ GDP.....	n/a	n/a
7.1.2 Madrid resident trademark reg/bn PPP\$ GDP.....	n/a	n/a
7.1.3 ICT & business model creation†	73.8	6 ●
7.1.4 ICT & organizational model creation†	78.6	2 ●
7.2 Creative goods & services	22.9	64
7.2.1 Recreation & culture consumption, %.....	6.9	35
7.2.2 National feature films/mn pop. 15–69.....	n/a	n/a
7.2.3 Paid-for dailies, circulation/th pop. 15–69.....	88.1	61
7.2.4 Creative goods exports, %.....	0.1	120 ○
7.2.5 Creative services exports, %.....	n/a	n/a
7.3 Online creativity.....	19.2	78
7.3.1 Generic top-level domains (TLDs)/th pop. 15–69.....	4.6	61
7.3.2 Country-code TLDs/th pop. 15–69.....	1.4	121 ○
7.3.3 Wikipedia monthly edits/mn pop. 15–69.....	1,986.7	50
7.3.4 Video uploads on YouTube/pop. 15–69.....	60.5	57

Key indicators

Population (millions)	21.4
GDP per capita, PPP\$	12,357.9
GDP (US\$ billions)	185.3

	Score (0–100) or value (hard data)	Rank
Global Innovation Index 2012 (out of 141).....	37.8	52
Innovation Output Sub-Index	31.7	57
Innovation Input Sub-Index	43.9	51
Innovation Efficiency Index	0.7	77
Global Innovation Index 2011 (out of 125)	50	
GII 2012 rank among GII 2011 economies (125)	50	
1 Institutions.....	62.1	56
1.1 Political environment	64.2	55
1.1.1 Political stability*.....	71.5	54
1.1.2 Government effectiveness*.....	37.2	75
1.1.3 Press freedom*.....	83.8	41
1.2 Regulatory environment.....	79.1	37
1.2.1 Regulatory quality*.....	68.5	41
1.2.2 Rule of law*.....	49.1	57
1.2.3 Cost of redundancy dismissal, salary weeks	8.3	21 ●
1.3 Business environment	43.1	87
1.3.1 Ease of starting a business*.....	82.0	26
1.3.2 Ease of resolving insolvency*.....	30.2	98
1.3.3 Ease of paying taxes*.....	17.2	116 ○
2 Human capital & research.....	36.1	67
2.1 Education.....	51.6	70
2.1.1 Current expenditure on education, % GNI	3.4	94
2.1.2 Public expenditure/pupil, % GDP/cap.....	20.6	53
2.1.3 School life expectancy, years.....	14.7	38
2.1.4 PISA scales in reading, maths, & science	426.6	46
2.1.5 Pupil-teacher ratio, secondary	12.4	51
2.2 Tertiary education	37.0	57
2.2.1 Tertiary enrolment, % gross.....	63.8	22 ●
2.2.2 Graduates in science & engineering, %	21.7	41
2.2.3 Tertiary inbound mobility, %.....	0.9	72
2.2.4 Gross tertiary outbound enrolment, %	1.4	62
2.3 Research & development (R&D).....	19.6	78
2.3.1 Researchers, headcounts/mn pop.	1,429.6	49
2.3.2 Gross expenditure on R&D, % GDP.....	0.5	57
2.3.3 Quality of scientific research institutions†	37.4	88
3 Infrastructure.....	44.3	40
3.1 Information & communication technologies (ICT).....	36.6	61
3.1.1 ICT access*.....	55.0	51
3.1.2 ICT use*	32.0	45
3.1.3 Government's online service*	51.6	61
3.1.4 E-participation*.....	7.9	98 ○
3.2 General infrastructure	36.1	70
3.2.1 Electricity output, kWh/cap.....	2,690.4	64
3.2.2 Electricity consumption, kWh/cap	2,266.5	64
3.2.3 Quality of trade & transport infrastructure*	31.3	98
3.2.4 Gross capital formation, % GDP.....	31.4	18 ●
3.3 Ecological sustainability	60.1	8 ●
3.3.1 GDP/unit of energy use, 2000 PPP\$/kg oil eq.....	5.8	57
3.3.2 Environmental performance*.....	48.3	85
3.3.3 ISO 14001 environmental certificates/bn PPP\$ GDP	29.1	1 ●
4 Market sophistication	39.7	63
4.1 Credit	34.7	53
4.1.1 Ease of getting credit*	87.6	8 ●
4.1.2 Domestic credit to private sector, % GDP.....	46.1	68
4.1.3 Microfinance gross loans, % GDP	0.2	60

4.2 Investment.....	25.5	67
4.2.1 Ease of protecting investors*.....	66.9	35
4.2.2 Market capitalization, % GDP.....	20.0	74
4.2.3 Total value of stocks traded, % GDP.....	1.1	70
4.2.4 Venture capital deals/tr PPP\$ GDP.....	3.8	59
4.3 Trade & competition	58.8	93
4.3.1 Applied tariff rate, weighted mean, %.....	1.6	11
4.3.2 Non-agricultural mkt access weighted tariff, %.....	2.0	92 ○
4.3.3 Imports of goods & services, % GDP	29.8	107 ○
4.3.4 Exports of goods & services, % GDP	23.5	116 ○
4.3.5 Intensity of local competition†	57.6	93
5 Business sophistication	37.4	77
5.1 Knowledge workers.....	46.0	67
5.1.1 Knowledge-intensive employment, %.....	21.8	61
5.1.2 Firms offering formal training, % firms.....	24.9	79
5.1.3 R&D performed by business, %.....	40.2	45
5.1.4 R&D financed by business, %	34.8	47
5.1.5 GMAT mean score.....	576.2	16 ●
5.1.6 GMAT test takers/mn pop. 20–34.....	92.1	53
5.2 Innovation linkages	23.5	127 ○
5.2.1 University/industry research collaboration†	33.3	111 ○
5.2.2 State of cluster development†	31.2	113 ○
5.2.3 R&D financed by abroad, %.....	8.3	40
5.2.4 JV–strategic alliance deals/tr PPP\$ GDP	4.3	107 ○
5.2.5 PCT patent filings with foreign inventor, %.....	25.0	71
5.3 Knowledge absorption	42.7	37
5.3.1 Royalty & license fees payments/th GDP.....	2.6	36
5.3.2 High-tech imports less re-imports, %	10.8	45
5.3.3 Computer & comm. service imports, %.....	51.0	14 ●
5.3.4 FDI net inflows, % GDP	2.1	73
6 Knowledge & technology outputs	34.0	46
6.1 Knowledge creation.....	21.4	71
6.1.1 Domestic resident patent ap/bn PPP\$ GDP	5.5	32
6.1.2 PCT resident patent ap/bn PPP\$ GDP	0.1	80
6.1.3 Domestic res utility model ap/bn PPP\$ GDP.....	0.2	47
6.1.4 Scientific & technical articles/bn PPP\$ GDP.....	5.4	56
6.2 Knowledge impact	36.7	55
6.2.1 Growth rate of PPP\$ GDP/worker, %	-1.1	109 ○
6.2.2 New businesses/th pop. 15–64.....	3.7	29
6.2.3 Computer software spending, % GDP.....	0.2	38
6.2.4 ISO 9001 quality certificates/bn PPP\$ GDP	63.5	3 ●
6.3 Knowledge diffusion	43.9	28
6.3.1 Royalty & license fees receipts/th GDP.....	2.9	19
6.3.2 High-tech exports less re-exports, %.....	9.1	28
6.3.3 Computer & comm. service exports, %	55.6	17 ●
6.3.4 FDI net outflows, % GDP	0.1	79
7 Creative outputs	29.3	82
7.1 Creative intangibles.....	26.9	123 ○
7.1.1 Domestic res trademark reg/bn PPP\$ GDP.....	56.0	29
7.1.2 Madrid resident trademark reg/bn PPP\$ GDP.....	0.3	42
7.1.3 ICT & business model creation†	41.8	109 ○
7.1.4 ICT & organizational model creation†	34.1	111 ○
7.2 Creative goods & services	29.0	50
7.2.1 Recreation & culture consumption, %	4.5	58
7.2.2 National feature films/mn pop. 15–69.....	1.3	61
7.2.3 Paid-for dailies, circulation/th pop. 15–69.....	77.8	65
7.2.4 Creative goods exports, %.....	2.4	35
7.2.5 Creative services exports, %.....	12.1	13 ●
7.3 Online creativity.....	34.4	41
7.3.1 Generic top-level domains (TLDs)/th pop. 15–69.....	11.8	45
7.3.2 Country-code TLDs/th pop. 15–69.....	50.7	36
7.3.3 Wikipedia monthly edits/mn pop. 15–69.....	1,886.9	51
7.3.4 Video uploads on YouTube/pop. 15–69	65.5	34

Russian Federation

Key indicators

Population (millions)	142.4
GDP per capita, PPP\$	16,687.4
GDP (US\$ billions)	1,884.9

	Score (0–100) or value (hard data)	Rank
Global Innovation Index 2012 (out of 141).....	37.9	51
Innovation Output Sub-Index	33.8	49
Innovation Input Sub-Index	42.0	60
Innovation Efficiency Index	0.8	43
Global Innovation Index 2011 (out of 125)	56	
GII 2012 rank among GII 2011 economies (125)	49	

1	Institutions.....	49.1	93
1.1	Political environment	41.1	114 ○
1.1.1	Political stability*.....	43.9	114 ○
1.1.2	Government effectiveness*.....	30.6	89
1.1.3	Press freedom*.....	48.6	116 ○
1.2	Regulatory environment.....	57.9	97
1.2.1	Regulatory quality*.....	41.7	101
1.2.2	Rule of law*.....	27.0	109 ○
1.2.3	Cost of redundancy dismissal, salary weeks.....	17.3	80
1.3	Business environment	48.4	70
1.3.1	Ease of starting a business*.....	38.1	87
1.3.2	Ease of resolving insolvency*.....	62.5	53
1.3.3	Ease of paying taxes*.....	44.6	78
2	Human capital & research.....	43.8	43
2.1	Education.....	55.2	55
2.1.1	Current expenditure on education, % GNI	3.5	88
2.1.2	Public expenditure/pupil, % GDP/cap.....	19.7	62
2.1.3	School life expectancy, years.....	14.3	47
2.1.4	PISA scales in reading, maths, & science.....	468.5	37
2.1.5	Pupil-teacher ratio, secondary	8.5	14 ●
2.2	Tertiary education	44.3	36
2.2.1	Tertiary enrolment, % gross.....	75.9	12 ●
2.2.2	Graduates in science & engineering, %	28.1	14 ●
2.2.3	Tertiary inbound mobility, %.....	1.4	68
2.2.4	Gross tertiary outbound enrolment, %	0.4	108 ○
2.3	Research & development (R&D).....	31.8	41
2.3.1	Researchers, headcounts/mn pop.	2,580.9	35
2.3.2	Gross expenditure on R&D, % GDP.....	1.3	29
2.3.3	Quality of scientific research institutions†	47.4	57
3	Infrastructure.....	37.8	54
3.1	Information & communication technologies (ICT).....	55.5	31
3.1.1	ICT access*.....	63.8	38
3.1.2	ICT use*.....	26.2	50
3.1.3	Government's online service*.....	66.0	37
3.1.4	E-participation*.....	65.8	19 ●
3.2	General infrastructure	37.7	61
3.2.1	Electricity output, kWh/cap.....	6,923.4	29
3.2.2	Electricity consumption, kWh/cap.....	6,133.2	29
3.2.3	Quality of trade & transport infrastructure*.....	34.5	82
3.2.4	Gross capital formation, % GDP.....	22.8	62
3.3	Ecological sustainability	20.4	111 ○
3.3.1	GDP/unit of energy use, 2000 PPP\$/kg oil eq.....	2.4	110 ○
3.3.2	Environmental performance*.....	45.4	101 ○
3.3.3	ISO 14001 environmental certificates/bn PPP\$ GDP.....	0.9	65
4	Market sophistication	35.0	87
4.1	Credit	13.6	112 ○
4.1.1	Ease of getting credit*.....	27.0	88
4.1.2	Domestic credit to private sector, % GDP.....	45.1	72
4.1.3	Microfinance gross loans, % GDP.....	0.0	83 ○

4.2	Investment.....	31.0	52
4.2.1	Ease of protecting investors*.....	29.4	91
4.2.2	Market capitalization, % GDP.....	67.9	34
4.2.3	Total value of stocks traded, % GDP.....	54.0	20
4.2.4	Venture capital deals/tr PPP\$ GDP.....	7.2	51
4.3	Trade & competition	60.3	85
4.3.1	Applied tariff rate, weighted mean, %.....	3.8	64
4.3.2	Non-agricultural mkt access weighted tariff, %.....	0.3	42
4.3.3	Imports of goods & services, % GDP.....	21.7	130 ○
4.3.4	Exports of goods & services, % GDP.....	30.0	87
4.3.5	Intensity of local competition†	49.8	120 ○
5	Business sophistication	44.3	43
5.1	Knowledge workers.....	64.8	32
5.1.1	Knowledge-intensive employment, %.....	40.7	17 ●
5.1.2	Firms offering formal training, % firms.....	52.2	24
5.1.3	R&D performed by business, %.....	62.4	19
5.1.4	R&D financed by business, %	26.6	55
5.1.5	GMAT mean score.....	562.2	26
5.1.6	GMAT test takers/mn pop. 20–34.....	55.2	75
5.2	Innovation linkages	25.8	118 ○
5.2.1	University/industry research collaboration†	41.4	72
5.2.2	State of cluster development†	35.8	93
5.2.3	R&D financed by abroad, %.....	6.5	52
5.2.4	JV–strategic alliance deals/tr PPP\$ GDP	29.6	50
5.2.5	PCT patent filings with foreign inventor, %.....	11.2	90 ○
5.3	Knowledge absorption	42.3	40
5.3.1	Royalty & license fees payments/th GDP.....	3.4	30
5.3.2	High-tech imports less re-imports, %	10.7	46
5.3.3	Computer & comm. service imports, %.....	44.7	25
5.3.4	FDI net inflows, % GDP.....	2.9	62
6	Knowledge & technology outputs	38.4	32
6.1	Knowledge creation.....	45.5	29
6.1.1	Domestic resident patent ap/bn PPP\$ GDP	13.0	12 ●
6.1.2	PCT resident patent ap/bn PPP\$ GDP.....	0.4	44
6.1.3	Domestic res utility model ap/bn PPP\$ GDP.....	5.3	10 ●
6.1.4	Scientific & technical articles/bn PPP\$ GDP.....	6.6	47
6.2	Knowledge impact	39.9	45
6.2.1	Growth rate of PPP\$ GDP/worker, %.....	3.2	47
6.2.2	New businesses/th pop. 15–64.....	2.6	37
6.2.3	Computer software spending, % GDP.....	0.2	36
6.2.4	ISO 9001 quality certificates/bn PPP\$ GDP	27.9	16 ●
6.3	Knowledge diffusion	29.9	56
6.3.1	Royalty & license fees receipts/th GDP.....	0.4	48
6.3.2	High-tech exports less re-exports, %.....	1.3	68
6.3.3	Computer & comm. service exports, %	43.6	34
6.3.4	FDI net outflows, % GDP	3.5	16 ●
7	Creative outputs	29.1	84
7.1	Creative intangibles.....	27.8	121 ○
7.1.1	Domestic res trademark reg/bn PPP\$ GDP.....	28.8	51
7.1.2	Madrid resident trademark reg/bn PPP\$ GDP.....	0.5	34
7.1.3	ICT & business model creation†	44.4	95
7.1.4	ICT & organizational model creation†	42.2	90
7.2	Creative goods & services	27.9	55
7.2.1	Recreation & culture consumption, %.....	5.2	49
7.2.2	National feature films/mn pop. 15–69.....	0.7	72
7.2.3	Paid-for dailies, circulation/th pop. 15–69.....	n/a	n/a
7.2.4	Creative goods exports, %.....	0.3	96
7.2.5	Creative services exports, %.....	15.9	8 ●
7.3	Online creativity.....	33.0	42
7.3.1	Generic top-level domains (TLDs)/th pop. 15–69.....	11.0	46
7.3.2	Country-code TLDs/th pop. 15–69.....	52.4	34
7.3.3	Wikipedia monthly edits/mn pop. 15–69.....	2,616.1	45
7.3.4	Video uploads on YouTube/pop. 15–69.....	55.4	67

Key indicators

Population (millions)	10.2
GDP per capita, PPP\$	1,318.5
GDP (US\$ billions)	6.0

	Score (0–100) or value (hard data)	Rank
Global Innovation Index 2012 (out of 141).....	27.9	102
Innovation Output Sub-Index	21.5	113
Innovation Input Sub-Index	34.3	95
Innovation Efficiency Index	0.6	111
Global Innovation Index 2011 (out of 125)		109
GII 2012 rank among GII 2011 economies (125)		96

1	Institutions.....	57.6	64
1.1	Political environment	46.9	90
1.1.1	Political stability*.....	62.7	75
1.1.2	Government effectiveness*.....	39.6	70
1.1.3	Press freedom*.....	38.5	125
1.2	Regulatory environment.....	66.8	69
1.2.1	Regulatory quality*.....	47.3	82
1.2.2	Rule of law*.....	39.5	74
1.2.3	Cost of redundancy dismissal, salary weeks.....	13.0	54 ●
1.3	Business environment	59.2	47 ●
1.3.1	Ease of starting a business*.....	93.5	9 ●
1.3.2	Ease of resolving insolvency*.....	2.1	137 ○
1.3.3	Ease of paying taxes*.....	82.0	26 ●
2	Human capital & research.....	20.9	120
2.1	Education.....	35.8	116
2.1.1	Current expenditure on education, % GNI.....	4.2	68
2.1.2	Public expenditure/pupil, % GDP/cap.....	17.9	76
2.1.3	School life expectancy, years.....	10.9	104
2.1.4	PISA scales in reading, maths, & science.....	n/a	n/a
2.1.5	Pupil-teacher ratio, secondary.....	29.4	118
2.2	Tertiary education	6.9	131
2.2.1	Tertiary enrolment, % gross.....	5.5	120
2.2.2	Graduates in science & engineering, %.....	n/a	n/a
2.2.3	Tertiary inbound mobility, %.....	0.7	80
2.2.4	Gross tertiary outbound enrolment, %.....	0.2	120
2.3	Research & development (R&D).....	20.1	74
2.3.1	Researchers, headcounts/mn pop.....	54.7	110
2.3.2	Gross expenditure on R&D, % GDP.....	n/a	n/a
2.3.3	Quality of scientific research institutions†.....	39.8	77
3	Infrastructure.....	22.0	118
3.1	Information & communication technologies (ICT).....	13.9	124
3.1.1	ICT access*.....	16.1	133
3.1.2	ICT use*.....	3.0	121
3.1.3	Government's online service*.....	34.0	106
3.1.4	E-participation*.....	2.6	115
3.2	General infrastructure	30.1	101
3.2.1	Electricity output, kWh/cap.....	n/a	n/a
3.2.2	Electricity consumption, kWh/cap.....	n/a	n/a
3.2.3	Quality of trade & transport infrastructure*.....	15.8	137 ○
3.2.4	Gross capital formation, % GDP.....	21.6	77
3.3	Ecological sustainability	n/a	n/a
3.3.1	GDP/unit of energy use, 2000 PPP\$/kg oil eq.....	n/a	n/a
3.3.2	Environmental performance*.....	n/a	n/a
3.3.3	ISO 14001 environmental certificates/bn PPP\$ GDP.....	n/a	n/a
4	Market sophistication	40.4	61
4.1	Credit	25.7	84
4.1.1	Ease of getting credit*.....	71.6	35 ●
4.1.2	Domestic credit to private sector, % GDP.....	11.2	138 ○
4.1.3	Microfinance gross loans, % GDP.....	0.3	51

4.2	Investment.....	38.1	35 ●
4.2.1	Ease of protecting investors*.....	76.2	27 ●
4.2.2	Market capitalization, % GDP.....	n/a	n/a
4.2.3	Total value of stocks traded, % GDP.....	n/a	n/a
4.2.4	Venture capital deals/tr PPP\$ GDP.....	0.0	65 ○
4.3	Trade & competition	57.6	99
4.3.1	Applied tariff rate, weighted mean, %.....	6.0	89
4.3.2	Non-agricultural mkt access weighted tariff, %.....	0.2	33 ●
4.3.3	Imports of goods & services, % GDP.....	29.0	109
4.3.4	Exports of goods & services, % GDP.....	11.6	136
4.3.5	Intensity of local competition†.....	56.2	98
5	Business sophistication	30.4	120
5.1	Knowledge workers.....	27.3	122
5.1.1	Knowledge-intensive employment, %.....	n/a	n/a
5.1.2	Firms offering formal training, % firms.....	27.6	69
5.1.3	R&D performed by business, %.....	n/a	n/a
5.1.4	R&D financed by business, %.....	n/a	n/a
5.1.5	GMAT mean score.....	382.7	136 ○
5.1.6	GMAT test takers/mn pop. 20–34.....	16.5	117
5.2	Innovation linkages	36.4	64
5.2.1	University/industry research collaboration†.....	45.2	57
5.2.2	State of cluster development†.....	45.9	50 ●
5.2.3	R&D financed by abroad, %.....	n/a	n/a
5.2.4	JV–strategic alliance deals/tr PPP\$ GDP.....	0.0	114 ○
5.2.5	PCT patent filings with foreign inventor, %.....	n/a	n/a
5.3	Knowledge absorption	27.6	107
5.3.1	Royalty & license fees payments/th GDP.....	0.0	117 ○
5.3.2	High-tech imports less re-imports, %.....	11.6	36 ●
5.3.3	Computer & comm. service imports, %.....	21.7	95
5.3.4	FDI net inflows, % GDP.....	0.8	115
6	Knowledge & technology outputs	6.9	140 ○
6.1	Knowledge creation.....	3.2	127
6.1.1	Domestic resident patent ap/bn PPP\$ GDP.....	n/a	n/a
6.1.2	PCT resident patent ap/bn PPP\$ GDP.....	n/a	n/a
6.1.3	Domestic res utility model ap/bn PPP\$ GDP.....	n/a	n/a
6.1.4	Scientific & technical articles/bn PPP\$ GDP.....	1.0	112
6.2	Knowledge impact	2.4	141 ○
6.2.1	Growth rate of PPP\$ GDP/worker, %.....	n/a	n/a
6.2.2	New businesses/th pop. 15–64.....	0.5	82
6.2.3	Computer software spending, % GDP.....	n/a	n/a
6.2.4	ISO 9001 quality certificates/bn PPP\$ GDP.....	0.1	138 ○
6.3	Knowledge diffusion	15.2	122
6.3.1	Royalty & license fees receipts/th GDP.....	0.0	94
6.3.2	High-tech exports less re-exports, %.....	0.9	75
6.3.3	Computer & comm. service exports, %.....	7.7	126
6.3.4	FDI net outflows, % GDP.....	–0.3	112
7	Creative outputs	36.1	47 ●
7.1	Creative intangibles.....	68.1	6 ●
7.1.1	Domestic res trademark reg/bn PPP\$ GDP.....	n/a	n/a
7.1.2	Madrid resident trademark reg/bn PPP\$ GDP.....	n/a	n/a
7.1.3	ICT & business model creation†.....	58.2	46 ●
7.1.4	ICT & organizational model creation†.....	78.1	3 ●
7.2	Creative goods & services	1.9	131
7.2.1	Recreation & culture consumption, %.....	n/a	n/a
7.2.2	National feature films/mn pop. 15–69.....	n/a	n/a
7.2.3	Paid-for dailies, circulation/th pop. 15–69.....	1.7	132 ○
7.2.4	Creative goods exports, %.....	0.3	95
7.2.5	Creative services exports, %.....	0.0	109 ○
7.3	Online creativity.....	6.1	122
7.3.1	Generic top-level domains (TLDs)/th pop. 15–69.....	0.3	120
7.3.2	Country-code TLDs/th pop. 15–69.....	2.0	118
7.3.3	Wikipedia monthly edits/mn pop. 15–69.....	n/a	n/a
7.3.4	Video uploads on YouTube/pop. 15–69.....	16.2	127

Saudi Arabia

Key indicators

Population (millions)	28.2
GDP per capita, PPP\$	24,056.7
GDP (US\$ billions)	560.3

	Score (0–100) or value (hard data)	Rank
Global Innovation Index 2012 (out of 141).....	39.3	48
Innovation Output Sub-Index	29.4	70
Innovation Input Sub-Index	49.2	39
Innovation Efficiency Index	0.6	127 ○
Global Innovation Index 2011 (out of 125)	54	
GII 2012 rank among GII 2011 economies (125)	46	

1	Institutions.....	63.8	53
1.1	Political environment	45.2	103
1.1.1	Political stability*.....	59.8	85
1.1.2	Government effectiveness*.....	38.8	71
1.1.3	Press freedom*.....	37.0	127 ○
1.2	Regulatory environment.....	65.5	74
1.2.1	Regulatory quality*.....	55.5	69
1.2.2	Rule of law*.....	52.0	53
1.2.3	Cost of redundancy dismissal, salary weeks.....	19.5	87
1.3	Business environment	80.8	15 ●
1.3.1	Ease of starting a business*.....	90.6	14 ●
1.3.2	Ease of resolving insolvency*.....	56.8	61
1.3.3	Ease of paying taxes*.....	94.9	8 ●
2	Human capital & research.....	44.8	40
2.1	Education.....	65.5	15 ●
2.1.1	Current expenditure on education, % GNI	7.2	9 ●
2.1.2	Public expenditure/pupil, % GDP/cap.....	21.0	50
2.1.3	School life expectancy, years.....	14.3	46
2.1.4	PISA scales in reading, maths, & science.....	n/a	n/a
2.1.5	Pupil-teacher ratio, secondary	9.7	24
2.2	Tertiary education	49.0	22
2.2.1	Tertiary enrolment, % gross.....	36.8	63
2.2.2	Graduates in science & engineering, %	35.8	4 ●
2.2.3	Tertiary inbound mobility, %.....	3.0	46
2.2.4	Gross tertiary outbound enrolment, %	1.4	60
2.3	Research & development (R&D).....	19.8	77
2.3.1	Researchers, headcounts/mn pop.	47.4	115 ○
2.3.2	Gross expenditure on R&D, % GDP.....	0.1	100 ○
2.3.3	Quality of scientific research institutions†	57.7	34
3	Infrastructure.....	42.6	45
3.1	Information & communication technologies (ICT).....	60.6	26
3.1.1	ICT access*.....	63.7	40
3.1.2	ICT use*.....	35.9	42
3.1.3	Government's online service*.....	79.7	19 ●
3.1.4	E-participation*.....	63.2	22
3.2	General infrastructure	47.0	31
3.2.1	Electricity output, kWh/cap.....	8,142.6	22
3.2.2	Electricity consumption, kWh/cap.....	7,842.0	22
3.2.3	Quality of trade & transport infrastructure*.....	56.8	32
3.2.4	Gross capital formation, % GDP.....	22.0	74
3.3	Ecological sustainability	20.2	113
3.3.1	GDP/unit of energy use, 2000 PPP\$/kg oil eq.....	2.4	111 ○
3.3.2	Environmental performance*.....	50.0	79
3.3.3	ISO 14001 environmental certificates/bn PPP\$ GDP.....	0.2	104
4	Market sophistication	47.5	36
4.1	Credit	36.1	50
4.1.1	Ease of getting credit*.....	57.7	43
4.1.2	Domestic credit to private sector, % GDP.....	47.6	66
4.1.3	Microfinance gross loans, % GDP.....	n/a	n/a

4.2	Investment.....	36.3	40
4.2.1	Ease of protecting investors*.....	87.0	16 ●
4.2.2	Market capitalization, % GDP.....	81.3	25
4.2.3	Total value of stocks traded, % GDP.....	46.7	22
4.2.4	Venture capital deals/tr PPP\$ GDP.....	0.0	65 ○
4.3	Trade & competition	70.2	29
4.3.1	Applied tariff rate, weighted mean, %.....	3.9	66
4.3.2	Non-agricultural mkt access weighted tariff, %.....	0.9	69
4.3.3	Imports of goods & services, % GDP.....	35.4	89
4.3.4	Exports of goods & services, % GDP.....	56.8	29
4.3.5	Intensity of local competition†	77.2	16 ●
5	Business sophistication	47.5	36
5.1	Knowledge workers.....	40.1	89
5.1.1	Knowledge-intensive employment, %.....	22.9	56
5.1.2	Firms offering formal training, % firms.....	n/a	n/a
5.1.3	R&D performed by business, %.....	n/a	n/a
5.1.4	R&D financed by business, %	n/a	n/a
5.1.5	GMAT mean score.....	349.5	139 ○
5.1.6	GMAT test takers/mn pop. 20–34.....	260.4	25
5.2	Innovation linkages	61.4	6 ●
5.2.1	University/industry research collaboration†	59.3	27
5.2.2	State of cluster development†	62.7	11 ●
5.2.3	R&D financed by abroad, %.....	n/a	n/a
5.2.4	JV–strategic alliance deals/tr PPP\$ GDP	79.0	17 ●
5.2.5	PCT patent filings with foreign inventor, %.....	78.4	41
5.3	Knowledge absorption	41.0	50
5.3.1	Royalty & license fees payments/th GDP.....	n/a	n/a
5.3.2	High-tech imports less re-imports, %	11.4	39
5.3.3	Computer & comm. service imports, %.....	26.6	77
5.3.4	FDI net inflows, % GDP.....	5.0	35
6	Knowledge & technology outputs	15.3	130 ○
6.1	Knowledge creation.....	2.7	132 ○
6.1.1	Domestic resident patent ap/bn PPP\$ GDP	0.5	80
6.1.2	PCT resident patent ap/bn PPP\$ GDP	n/a	n/a
6.1.3	Domestic res utility model ap/bn PPP\$ GDP.....	n/a	n/a
6.1.4	Scientific & technical articles/bn PPP\$ GDP.....	1.2	107
6.2	Knowledge impact	25.4	102
6.2.1	Growth rate of PPP\$ GDP/worker, %.....	0.7	97 ○
6.2.2	New businesses/th pop. 15–64.....	n/a	n/a
6.2.3	Computer software spending, % GDP.....	0.2	40
6.2.4	ISO 9001 quality certificates/bn PPP\$ GDP	2.1	93
6.3	Knowledge diffusion	17.9	110
6.3.1	Royalty & license fees receipts/th GDP.....	n/a	n/a
6.3.2	High-tech exports less re-exports, %.....	0.1	111 ○
6.3.3	Computer & comm. service exports, %	2.8	132 ○
6.3.4	FDI net outflows, % GDP	0.9	42
7	Creative outputs	43.4	29
7.1	Creative intangibles.....	72.4	3 ●
7.1.1	Domestic res trademark reg/bn PPP\$ GDP.....	n/a	n/a
7.1.2	Madrid resident trademark reg/bn PPP\$ GDP.....	n/a	n/a
7.1.3	ICT & business model creation†	69.3	17 ●
7.1.4	ICT & organizational model creation†	75.5	5 ●
7.2	Creative goods & services	8.4	110
7.2.1	Recreation & culture consumption, %.....	1.5	90 ○
7.2.2	National feature films/mn pop. 15–69.....	n/a	n/a
7.2.3	Paid-for dailies, circulation/th pop. 15–69.....	103.9	56
7.2.4	Creative goods exports, %.....	0.2	102
7.2.5	Creative services exports, %.....	n/a	n/a
7.3	Online creativity.....	20.3	74
7.3.1	Generic top-level domains (TLDs)/th pop. 15–69.....	2.5	77
7.3.2	Country-code TLDs/th pop. 15–69.....	12.5	89
7.3.3	Wikipedia monthly edits/mn pop. 15–69.....	857.9	69
7.3.4	Video uploads on YouTube/pop. 15–69.....	62.0	50

Key indicators

Population (millions)	13.4
GDP per capita, PPP\$	1,893.4
GDP (US\$ billions)	14.7

	Score (0–100) or value (hard data)	Rank
Global Innovation Index 2012 (out of 141).....	28.8	97
Innovation Output Sub-Index	27.2	78
Innovation Input Sub-Index	30.4	114
Innovation Efficiency Index	0.9	16 ●
Global Innovation Index 2011 (out of 125)		100
GII 2012 rank among GII 2011 economies (125)		92
1 Institutions.....	49.3	92
1.1 Political environment	53.0	79
1.1.1 Political stability*.....	55.9	90
1.1.2 Government effectiveness*.....	27.6	96
1.1.3 Press freedom*.....	75.7	59
1.2 Regulatory environment.....	64.8	75
1.2.1 Regulatory quality*.....	44.8	91
1.2.2 Rule of law*.....	37.0	82
1.2.3 Cost of redundancy dismissal, salary weeks.....	13.7	61
1.3 Business environment	30.2	107
1.3.1 Ease of starting a business*.....	40.2	84
1.3.2 Ease of resolving insolvency*.....	46.0	76
1.3.3 Ease of paying taxes*.....	4.3	134 ○
2 Human capital & research.....	22.5	116
2.1 Education.....	37.0	113
2.1.1 Current expenditure on education, % GNI	5.2	35 ●
2.1.2 Public expenditure/pupil, % GDP/cap.....	26.3	18 ●
2.1.3 School life expectancy, years.....	8.2	128 ○
2.1.4 PISA scales in reading, maths, & science.....	n/a	n/a
2.1.5 Pupil-teacher ratio, secondary	32.3	123
2.2 Tertiary education	8.7	127
2.2.1 Tertiary enrolment, % gross.....	7.9	112
2.2.2 Graduates in science & engineering, %	n/a	n/a
2.2.3 Tertiary inbound mobility, %.....	n/a	n/a
2.2.4 Gross tertiary outbound enrolment, %	1.0	75
2.3 Research & development (R&D).....	21.8	69
2.3.1 Researchers, headcounts/mn pop.	666.7	65
2.3.2 Gross expenditure on R&D, % GDP.....	0.4	68
2.3.3 Quality of scientific research institutions†.....	52.2	41
3 Infrastructure.....	28.7	92
3.1 Information & communication technologies (ICT).....	21.3	102
3.1.1 ICT access*.....	22.8	111
3.1.2 ICT use*	6.5	100
3.1.3 Government's online service*.....	34.6	105
3.1.4 E-participation*.....	21.1	63
3.2 General infrastructure	34.0	84
3.2.1 Electricity output, kWh/cap.....	222.9	115
3.2.2 Electricity consumption, kWh/cap.....	189.3	114
3.2.3 Quality of trade & transport infrastructure*.....	41.0	58
3.2.4 Gross capital formation, % GDP.....	28.9	22 ●
3.3 Ecological sustainability	30.9	67
3.3.1 GDP/unit of energy use, 2000 PPP\$/kg oil eq.....	7.7	31 ●
3.3.2 Environmental performance*.....	46.7	93
3.3.3 ISO 14001 environmental certificates/bn PPP\$ GDP	0.2	105
4 Market sophistication	19.6	134 ○
4.1 Credit	13.4	113
4.1.1 Ease of getting credit*	2.8	126 ○
4.1.2 Domestic credit to private sector, % GDP.....	25.9	101
4.1.3 Microfinance gross loans, % GDP.....	2.5	19 ●

4.2 Investment.....	1.8	137 ○
4.2.1 Ease of protecting investors*.....	3.5	131 ○
4.2.2 Market capitalization, % GDP.....	n/a	n/a
4.2.3 Total value of stocks traded, % GDP.....	n/a	n/a
4.2.4 Venture capital deals/tr PPP\$ GDP.....	0.0	65 ○
4.3 Trade & competition	43.8	135 ○
4.3.1 Applied tariff rate, weighted mean, %.....	8.9	118
4.3.2 Non-agricultural mkt access weighted tariff, %.....	4.6	133 ○
4.3.3 Imports of goods & services, % GDP.....	44.0	57
4.3.4 Exports of goods & services, % GDP.....	24.5	113
4.3.5 Intensity of local competition†	66.8	59
5 Business sophistication	32.0	113
5.1 Knowledge workers.....	20.4	134 ○
5.1.1 Knowledge-intensive employment, %.....	n/a	n/a
5.1.2 Firms offering formal training, % firms.....	16.3	95
5.1.3 R&D performed by business, %.....	0.9	87 ○
5.1.4 R&D financed by business, %	4.0	77
5.1.5 GMAT mean score.....	467.1	99
5.1.6 GMAT test takers/mn pop. 20–34.....	21.2	112
5.2 Innovation linkages	51.8	17 ●
5.2.1 University/industry research collaboration†	45.2	58
5.2.2 State of cluster development†	34.0	101
5.2.3 R&D financed by abroad, %.....	38.3	8 ●
5.2.4 JV–strategic alliance deals/tr PPP\$ GDP	0.0	114 ○
5.2.5 PCT patent filings with foreign inventor, %.....	100.0	1 ●
5.3 Knowledge absorption	23.7	129
5.3.1 Royalty & license fees payments/th GDP.....	0.9	76
5.3.2 High-tech imports less re-imports, %	4.5	114 ○
5.3.3 Computer & comm. service imports, %.....	20.9	97
5.3.4 FDI net inflows, % GDP.....	1.8	82
6 Knowledge & technology outputs	21.7	97
6.1 Knowledge creation.....	18.3	84
6.1.1 Domestic resident patent ap/bn PPP\$ GDP	0.4	86
6.1.2 PCT resident patent ap/bn PPP\$ GDP.....	0.1	76
6.1.3 Domestic res utility model ap/bn PPP\$ GDP.....	n/a	n/a
6.1.4 Scientific & technical articles/bn PPP\$ GDP.....	2.5	77
6.2 Knowledge impact	20.2	119
6.2.1 Growth rate of PPP\$ GDP/worker, %.....	0.8	95
6.2.2 New businesses/th pop. 15–64.....	0.2	89
6.2.3 Computer software spending, % GDP.....	0.2	42
6.2.4 ISO 9001 quality certificates/bn PPP\$ GDP	1.8	98
6.3 Knowledge diffusion	26.8	68
6.3.1 Royalty & license fees receipts/th GDP.....	0.1	71
6.3.2 High-tech exports less re-exports, %.....	0.4	94
6.3.3 Computer & comm. service exports, %	41.9	37 ●
6.3.4 FDI net outflows, % GDP	0.6	50
7 Creative outputs	32.6	67
7.1 Creative intangibles.....	59.1	12 ●
7.1.1 Domestic res trademark reg/bn PPP\$ GDP.....	n/a	n/a
7.1.2 Madrid resident trademark reg/bn PPP\$ GDP.....	n/a	n/a
7.1.3 ICT & business model creation†	61.6	35 ●
7.1.4 ICT & organizational model creation†	56.6	36 ●
7.2 Creative goods & services	2.6	128
7.2.1 Recreation & culture consumption, %.....	0.4	98 ○
7.2.2 National feature films/mn pop. 15–69.....	n/a	n/a
7.2.3 Paid-for dailies, circulation/th pop. 15–69.....	29.8	97
7.2.4 Creative goods exports, %.....	0.3	98
7.2.5 Creative services exports, %.....	0.3	92
7.3 Online creativity.....	9.8	111
7.3.1 Generic top-level domains (TLDs)/th pop. 15–69.....	0.3	115
7.3.2 Country-code TLDs/th pop. 15–69.....	5.9	105
7.3.3 Wikipedia monthly edits/mn pop. 15–69.....	n/a	n/a
7.3.4 Video uploads on YouTube/pop. 15–69.....	23.3	117

Key indicators

Population (millions)	7.4
GDP per capita, PPP\$	10,661.3
GDP (US\$ billions)	46.4

	Score (0–100) or value (hard data)	Rank
Global Innovation Index 2012 (out of 141).....	40.0	46
Innovation Output Sub-Index	38.5	36
Innovation Input Sub-Index	41.5	65
Innovation Efficiency Index	0.9	7 ●
Global Innovation Index 2011 (out of 125)	55	
GII 2012 rank among GII 2011 economies (125)	44	

1	Institutions.....	56.0	71
1.1	Political environment	55.7	71
1.1.1	Political stability*.....	55.5	93
1.1.2	Government effectiveness*.....	38.0	73
1.1.3	Press freedom*.....	73.6	63
1.2	Regulatory environment.....	72.2	45
1.2.1	Regulatory quality*.....	51.2	74
1.2.2	Rule of law*.....	37.4	79
1.2.3	Cost of redundancy dismissal, salary weeks.....	8.0	1 ●
1.3	Business environment	40.2	94
1.3.1	Ease of starting a business*.....	53.9	65
1.3.2	Ease of resolving insolvency*.....	41.7	82
1.3.3	Ease of paying taxes*.....	25.1	105 ○

2	Human capital & research.....	43.1	44
2.1	Education.....	60.7	35
2.1.1	Current expenditure on education, % GNI	5.0	40
2.1.2	Public expenditure/pupil, % GDP/cap.....	28.8	11 ●
2.1.3	School life expectancy, years.....	13.6	56
2.1.4	PISA scales in reading, maths, & science.....	442.4	42
2.1.5	Pupil-teacher ratio, secondary	9.6	22 ●
2.2	Tertiary education	43.4	41
2.2.1	Tertiary enrolment, % gross.....	49.1	48
2.2.2	Graduates in science & engineering, %	23.7	34
2.2.3	Tertiary inbound mobility, %.....	4.2	33
2.2.4	Gross tertiary outbound enrolment, %	2.4	37
2.3	Research & development (R&D).....	25.4	56
2.3.1	Researchers, headcounts/mn pop.	1,218.7	50
2.3.2	Gross expenditure on R&D, % GDP.....	0.9	36
2.3.3	Quality of scientific research institutions†	46.8	58

3	Infrastructure.....	35.1	63
3.1	Information & communication technologies (ICT).....	42.3	54
3.1.1	ICT access*.....	63.2	42
3.1.2	ICT use*.....	24.7	52
3.1.3	Government's online service*.....	57.5	48
3.1.4	E-participation*.....	23.7	59
3.2	General infrastructure	33.9	85
3.2.1	Electricity output, kWh/cap.....	5,069.0	42
3.2.2	Electricity consumption, kWh/cap.....	4,224.9	46
3.2.3	Quality of trade & transport infrastructure*.....	32.5	94
3.2.4	Gross capital formation, % GDP.....	22.8	63

3.3	Ecological sustainability	29.0	72
3.3.1	GDP/unit of energy use, 2000 PPP\$/kg oil eq.....	2.3	112 ○
3.3.2	Environmental performance*.....	46.1	98 ○
3.3.3	ISO 14001 environmental certificates/bn PPP\$ GDP.....	4.2	22 ●

4	Market sophistication	36.7	78
4.1	Credit	38.3	47
4.1.1	Ease of getting credit*.....	77.4	21
4.1.2	Domestic credit to private sector, % GDP.....	51.5	61
4.1.3	Microfinance gross loans, % GDP.....	1.8	24

4.2	Investment.....	14.0	104
4.2.1	Ease of protecting investors*.....	46.7	60
4.2.2	Market capitalization, % GDP.....	24.8	68
4.2.3	Total value of stocks traded, % GDP.....	0.6	81
4.2.4	Venture capital deals/tr PPP\$ GDP.....	0.0	65 ○

4.3	Trade & competition	57.8	97
4.3.1	Applied tariff rate, weighted mean, %.....	6.0	90
4.3.2	Non-agricultural mkt access weighted tariff, %.....	0.8	68
4.3.3	Imports of goods & services, % GDP.....	51.4	48
4.3.4	Exports of goods & services, % GDP.....	34.9	78
4.3.5	Intensity of local competition†	43.4	130 ○

5	Business sophistication	36.3	86
5.1	Knowledge workers.....	42.4	77
5.1.1	Knowledge-intensive employment, %.....	28.7	43
5.1.2	Firms offering formal training, % firms.....	36.5	48
5.1.3	R&D performed by business, %.....	14.3	71 ○
5.1.4	R&D financed by business, %	8.3	74 ○
5.1.5	GMAT mean score.....	515.8	62
5.1.6	GMAT test takers/mn pop. 20–34.....	81.0	55

5.2	Innovation linkages	27.1	114 ○
5.2.1	University/industry research collaboration†	40.5	78
5.2.2	State of cluster development†	27.1	120 ○
5.2.3	R&D financed by abroad, %.....	7.2	45
5.2.4	JV–strategic alliance deals/tr PPP\$ GDP	7.6	94
5.2.5	PCT patent filings with foreign inventor, %.....	50.0	48

5.3	Knowledge absorption	39.4	56
5.3.1	Royalty & license fees payments/th GDP.....	4.1	22
5.3.2	High-tech imports less re-imports, %	6.9	84
5.3.3	Computer & comm. service imports, %.....	40.4	35
5.3.4	FDI net inflows, % GDP.....	3.5	50

6	Knowledge & technology outputs	40.0	29
6.1	Knowledge creation.....	33.9	42
6.1.1	Domestic resident patent ap/bn PPP\$ GDP	3.8	39
6.1.2	PCT resident patent ap/bn PPP\$ GDP	0.2	57
6.1.3	Domestic res utility model ap/bn PPP\$ GDP.....	1.3	25
6.1.4	Scientific & technical articles/bn PPP\$ GDP.....	15.8	22 ●

6.2	Knowledge impact	51.8	17 ●
6.2.1	Growth rate of PPP\$ GDP/worker, %.....	6.6	8 ●
6.2.2	New businesses/th pop. 15–64.....	1.9	47
6.2.3	Computer software spending, % GDP.....	n/a	n/a
6.2.4	ISO 9001 quality certificates/bn PPP\$ GDP	23.6	21 ●

6.3	Knowledge diffusion	34.5	41
6.3.1	Royalty & license fees receipts/th GDP.....	1.0	31
6.3.2	High-tech exports less re-exports, %.....	3.2	50
6.3.3	Computer & comm. service exports, %	52.5	22 ●
6.3.4	FDI net outflows, % GDP	0.5	55

7	Creative outputs	36.9	44
7.1	Creative intangibles.....	38.9	76
7.1.1	Domestic res trademark reg/bn PPP\$ GDP.....	22.7	58
7.1.2	Madrid resident trademark reg/bn PPP\$ GDP.....	3.7	5 ●
7.1.3	ICT & business model creation†	32.2	127 ○
7.1.4	ICT & organizational model creation†	33.3	114 ○

7.2	Creative goods & services	40.2	19 ●
7.2.1	Recreation & culture consumption, %.....	6.7	42
7.2.2	National feature films/mn pop. 15–69.....	3.7	33
7.2.3	Paid-for dailies, circulation/th pop. 15–69.....	148.9	35
7.2.4	Creative goods exports, %.....	1.8	48
7.2.5	Creative services exports, %.....	18.9	7 ●

7.3	Online creativity.....	29.3	50
7.3.1	Generic top-level domains (TLDs)/th pop. 15–69.....	3.0	74
7.3.2	Country-code TLDs/th pop. 15–69.....	33.3	52
7.3.3	Wikipedia monthly edits/mn pop. 15–69.....	3,670.2	37
7.3.4	Video uploads on YouTube/pop. 15–69.....	62.5	48

Key indicators

Population (millions)	5.3
GDP per capita, PPP\$	59,937.0
GDP (US\$ billions)	266.5

	Score (0–100) or value (hard data)	Rank
Global Innovation Index 2012 (out of 141).....	63.5	3
Innovation Output Sub-Index	52.0	11
Innovation Input Sub-Index	74.9	1 ●
Innovation Efficiency Index	0.7	83 ○
Global Innovation Index 2011 (out of 125)	3	3
GII 2012 rank among GII 2011 economies (125)	3	3
1 Institutions.....	92.5	8
1.1 Political environment	81.5	24
1.1.1 Political stability*.....	92.5	8
1.1.2 Government effectiveness*.....	100.0	1 ●
1.1.3 Press freedom*.....	52.0	109 ○
1.2 Regulatory environment.....	97.5	5
1.2.1 Regulatory quality*.....	97.5	4
1.2.2 Rule of law*.....	92.7	14
1.2.3 Cost of redundancy dismissal, salary weeks	8.0	1 ●
1.3 Business environment	98.5	1 ●
1.3.1 Ease of starting a business*.....	97.8	4
1.3.2 Ease of resolving insolvency*.....	99.2	2
1.3.3 Ease of paying taxes*.....	98.5	3
2 Human capital & research.....	68.3	2
2.1 Education.....	58.2	44
2.1.1 Current expenditure on education, % GNI	3.0	107 ○
2.1.2 Public expenditure/pupil, % GDP/cap.....	n/a	n/a
2.1.3 School life expectancy, years.....	n/a	n/a
2.1.4 PISA scales in reading, maths, & science	543.2	4
2.1.5 Pupil-teacher ratio, secondary	14.9	69 ○
2.2 Tertiary education	83.3	1 ●
2.2.1 Tertiary enrolment, % gross.....	n/a	n/a
2.2.2 Graduates in science & engineering, %	n/a	n/a
2.2.3 Tertiary inbound mobility, %.....	22.8	7
2.2.4 Gross tertiary outbound enrolment, %	n/a	n/a
2.3 Research & development (R&D).....	63.3	9
2.3.1 Researchers, headcounts/mn pop.	6,991.5	8
2.3.2 Gross expenditure on R&D, % GDP.....	2.7	11
2.3.3 Quality of scientific research institutions†	75.5	12
3 Infrastructure.....	60.6	9
3.1 Information & communication technologies (ICT).....	84.1	4
3.1.1 ICT access*.....	81.4	11
3.1.2 ICT use*	60.3	15
3.1.3 Government's online service*.....	100.0	1 ●
3.1.4 E-participation*.....	94.7	3
3.2 General infrastructure	56.3	14
3.2.1 Electricity output, kWh/cap.....	8,233.4	21
3.2.2 Electricity consumption, kWh/cap	7,948.3	20
3.2.3 Quality of trade & transport infrastructure*	80.5	3
3.2.4 Gross capital formation, % GDP.....	23.8	50
3.3 Ecological sustainability	41.4	38
3.3.1 GDP/unit of energy use, 2000 PPP\$/kg oil eq.....	7.9	30
3.3.2 Environmental performance*.....	56.4	50
3.3.3 ISO 14001 environmental certificates/bn PPP\$ GDP	2.8	33
4 Market sophistication	76.3	4
4.1 Credit	61.0	15
4.1.1 Ease of getting credit*	87.6	8
4.1.2 Domestic credit to private sector, % GDP.....	102.1	30
4.1.3 Microfinance gross loans, % GDP	n/a	n/a

4.2 Investment.....	76.9	4
4.2.1 Ease of protecting investors*.....	99.2	2
4.2.2 Market capitalization, % GDP.....	166.2	7
4.2.3 Total value of stocks traded, % GDP.....	126.7	7
4.2.4 Venture capital deals/tr PPP\$ GDP.....	54.0	25
4.3 Trade & competition	91.1	1 ●
4.3.1 Applied tariff rate, weighted mean, %.....	0.0	1 ●
4.3.2 Non-agricultural mkt access weighted tariff, %.....	0.6	59 ○
4.3.3 Imports of goods & services, % GDP	183.0	1
4.3.4 Exports of goods & services, % GDP	211.1	1 ●
4.3.5 Intensity of local competition†	73.0	31
5 Business sophistication	76.9	1 ●
5.1 Knowledge workers.....	91.8	1 ●
5.1.1 Knowledge-intensive employment, %.....	51.0	1 ●
5.1.2 Firms offering formal training, % firms.....	n/a	n/a
5.1.3 R&D performed by business, %.....	71.8	9
5.1.4 R&D financed by business, %	63.5	11
5.1.5 GMAT mean score.....	596.3	3
5.1.6 GMAT test takers/mn pop. 20–34.....	1,150.1	5
5.2 Innovation linkages	54.4	13
5.2.1 University/industry research collaboration†	74.5	6
5.2.2 State of cluster development†	69.1	2
5.2.3 R&D financed by abroad, %.....	5.3	60 ○
5.2.4 JV-strategic alliance deals/tr PPP\$ GDP	84.2	14
5.2.5 PCT patent filings with foreign inventor, %.....	77.5	42
5.3 Knowledge absorption	84.5	1 ●
5.3.1 Royalty & license fees payments/th GDP.....	71.2	1 ●
5.3.2 High-tech imports less re-imports, %	32.6	3
5.3.3 Computer & comm. service imports, %.....	44.0	27
5.3.4 FDI net inflows, % GDP	18.5	6
6 Knowledge & technology outputs	64.9	3
6.1 Knowledge creation.....	49.3	25
6.1.1 Domestic resident patent ap/bn PPP\$ GDP	3.1	44
6.1.2 PCT resident patent ap/bn PPP\$ GDP	2.1	21
6.1.3 Domestic res utility model ap/bn PPP\$ GDP.....	n/a	n/a
6.1.4 Scientific & technical articles/bn PPP\$ GDP.....	16.6	17
6.2 Knowledge impact	67.9	3
6.2.1 Growth rate of PPP\$ GDP/worker, %.....	13.6	2
6.2.2 New businesses/th pop. 15–64.....	7.4	10
6.2.3 Computer software spending, % GDP.....	0.5	23
6.2.4 ISO 9001 quality certificates/bn PPP\$ GDP	13.4	40
6.3 Knowledge diffusion	77.5	1 ●
6.3.1 Royalty & license fees receipts/th GDP.....	8.4	7
6.3.2 High-tech exports less re-exports, %.....	38.1	1 ●
6.3.3 Computer & comm. service exports, %	46.8	27
6.3.4 FDI net outflows, % GDP	9.5	4
7 Creative outputs	39.2	37
7.1 Creative intangibles.....	44.4	53
7.1.1 Domestic res trademark reg/bn PPP\$ GDP.....	16.9	66 ○
7.1.2 Madrid resident trademark reg/bn PPP\$ GDP.....	0.6	31 ○
7.1.3 ICT & business model creation†	75.3	4
7.1.4 ICT & organizational model creation†	81.4	1 ●
7.2 Creative goods & services	29.6	49
7.2.1 Recreation & culture consumption, %.....	8.7	20
7.2.2 National feature films/mn pop. 15–69.....	1.6	56 ○
7.2.3 Paid-for dailies, circulation/th pop. 15–69.....	269.8	15
7.2.4 Creative goods exports, %.....	2.0	45
7.2.5 Creative services exports, %.....	0.2	96 ○
7.3 Online creativity.....	38.3	38
7.3.1 Generic top-level domains (TLDs)/th pop. 15–69.....	23.4	34
7.3.2 Country-code TLDs/th pop. 15–69.....	50.1	38
7.3.3 Wikipedia monthly edits/mn pop. 15–69.....	1,280.5	56 ○
7.3.4 Video uploads on YouTube/pop. 15–69	73.1	17

Key indicators

Population (millions)	5.4
GDP per capita, PPP\$	23,384.1
GDP (US\$ billions)	97.2

	Score (0–100) or value (hard data)	Rank
Global Innovation Index 2012 (out of 141).....	41.4	40
Innovation Output Sub-Index	35.4	43
Innovation Input Sub-Index	47.3	40
Innovation Efficiency Index	0.7	65
Global Innovation Index 2011 (out of 125)		37
GII 2012 rank among GII 2011 economies (125)		39

1	Institutions.....	69.8	38
1.1	Political environment	82.2	23 ●
1.1.1	Political stability*.....	90.0	12 ●
1.1.2	Government effectiveness*.....	63.4	35
1.1.3	Press freedom*.....	93.2	23 ●
1.2	Regulatory environment.....	70.5	53
1.2.1	Regulatory quality*.....	78.5	29
1.2.2	Rule of law*.....	63.2	43
1.2.3	Cost of redundancy dismissal, salary weeks.....	23.1	104 ○
1.3	Business environment	56.8	57
1.3.1	Ease of starting a business*.....	58.2	58
1.3.2	Ease of resolving insolvency*.....	79.1	30
1.3.3	Ease of paying taxes*.....	33.0	94
2	Human capital & research.....	42.6	46
2.1	Education.....	52.8	66
2.1.1	Current expenditure on education, % GNI	3.6	84
2.1.2	Public expenditure/pupil, % GDP/cap.....	16.4	83
2.1.3	School life expectancy, years.....	14.6	42
2.1.4	PISA scales in reading, maths, & science.....	488.1	28
2.1.5	Pupil-teacher ratio, secondary	12.4	50
2.2	Tertiary education	49.0	23 ●
2.2.1	Tertiary enrolment, % gross.....	54.2	39
2.2.2	Graduates in science & engineering, %	20.6	52
2.2.3	Tertiary inbound mobility, %.....	2.7	49
2.2.4	Gross tertiary outbound enrolment, %	6.5	10 ●
2.3	Research & development (R&D).....	26.0	53
2.3.1	Researchers, headcounts/mn pop.	4,004.4	26
2.3.2	Gross expenditure on R&D, % GDP.....	0.5	56
2.3.3	Quality of scientific research institutions†	37.2	94
3	Infrastructure.....	46.3	33
3.1	Information & communication technologies (ICT).....	42.4	53
3.1.1	ICT access*.....	61.6	43
3.1.2	ICT use*.....	44.4	32
3.1.3	Government's online service*.....	50.3	66
3.1.4	E-participation*.....	13.2	83
3.2	General infrastructure	41.0	45
3.2.1	Electricity output, kWh/cap.....	5,033.3	43
3.2.2	Electricity consumption, kWh/cap.....	5,130.0	40
3.2.3	Quality of trade & transport infrastructure*.....	50.0	41
3.2.4	Gross capital formation, % GDP.....	23.4	57
3.3	Ecological sustainability	55.6	11 ●
3.3.1	GDP/unit of energy use, 2000 PPP\$/kg oil eq.....	5.5	64
3.3.2	Environmental performance*.....	66.6	12 ●
3.3.3	ISO 14001 environmental certificates/bn PPP\$ GDP.....	9.1	10 ●
4	Market sophistication	38.1	71
4.1	Credit	30.3	69
4.1.1	Ease of getting credit*.....	77.4	21
4.1.2	Domestic credit to private sector, % GDP.....	44.9	73
4.1.3	Microfinance gross loans, % GDP.....	0.0	92 ○

4.2	Investment.....	7.8	118 ○
4.2.1	Ease of protecting investors*.....	29.4	91
4.2.2	Market capitalization, % GDP.....	4.7	99 ○
4.2.3	Total value of stocks traded, % GDP.....	0.2	92 ○
4.2.4	Venture capital deals/tr PPP\$ GDP.....	0.0	65 ○
4.3	Trade & competition	76.1	13 ●
4.3.1	Applied tariff rate, weighted mean, %.....	1.6	11
4.3.2	Non-agricultural mkt access weighted tariff, %.....	2.0	92 ○
4.3.3	Imports of goods & services, % GDP.....	82.4	9 ●
4.3.4	Exports of goods & services, % GDP.....	81.1	10 ●
4.3.5	Intensity of local competition†	72.6	35
5	Business sophistication	39.7	63
5.1	Knowledge workers.....	54.8	44
5.1.1	Knowledge-intensive employment, %.....	34.6	33
5.1.2	Firms offering formal training, % firms.....	33.1	54
5.1.3	R&D performed by business, %.....	41.0	41
5.1.4	R&D financed by business, %	35.1	46
5.1.5	GMAT mean score.....	575.9	17 ●
5.1.6	GMAT test takers/mn pop. 20–34.....	69.4	63
5.2	Innovation linkages	29.7	101
5.2.1	University/industry research collaboration†	36.3	101 ○
5.2.2	State of cluster development†	39.2	78
5.2.3	R&D financed by abroad, %.....	12.8	25
5.2.4	JV-strategic alliance deals/tr PPP\$ GDP	3.1	111 ○
5.2.5	PCT patent filings with foreign inventor, %.....	34.8	60
5.3	Knowledge absorption	34.7	72
5.3.1	Royalty & license fees payments/th GDP.....	1.7	55
5.3.2	High-tech imports less re-imports, %	10.6	47
5.3.3	Computer & comm. service imports, %.....	35.3	50
5.3.4	FDI net inflows, % GDP.....	0.6	118 ○
6	Knowledge & technology outputs	36.5	39
6.1	Knowledge creation.....	31.1	50
6.1.1	Domestic resident patent ap/bn PPP\$ GDP	2.1	51
6.1.2	PCT resident patent ap/bn PPP\$ GDP	0.5	40
6.1.3	Domestic res utility model ap/bn PPP\$ GDP.....	2.5	15
6.1.4	Scientific & technical articles/bn PPP\$ GDP.....	8.7	38
6.2	Knowledge impact	50.9	18 ●
6.2.1	Growth rate of PPP\$ GDP/worker, %	5.8	12 ●
6.2.2	New businesses/th pop. 15–64.....	4.0	27
6.2.3	Computer software spending, % GDP.....	0.4	24
6.2.4	ISO 9001 quality certificates/bn PPP\$ GDP	32.3	11 ●
6.3	Knowledge diffusion	27.5	64
6.3.1	Royalty & license fees receipts/th GDP.....	0.5	43
6.3.2	High-tech exports less re-exports, %.....	6.2	33
6.3.3	Computer & comm. service exports, %	29.5	62
6.3.4	FDI net outflows, % GDP	0.4	63
7	Creative outputs	34.4	57
7.1	Creative intangibles.....	34.0	98
7.1.1	Domestic res trademark reg/bn PPP\$ GDP.....	55.3	31
7.1.2	Madrid resident trademark reg/bn PPP\$ GDP.....	1.0	21
7.1.3	ICT & business model creation†	50.1	73
7.1.4	ICT & organizational model creation†	37.7	103 ○
7.2	Creative goods & services	29.7	48
7.2.1	Recreation & culture consumption, %.....	8.6	21
7.2.2	National feature films/mn pop. 15–69.....	1.7	54
7.2.3	Paid-for dailies, circulation/th pop. 15–69.....	104.1	55
7.2.4	Creative goods exports, %.....	1.7	50
7.2.5	Creative services exports, %.....	5.5	35
7.3	Online creativity.....	40.0	35
7.3.1	Generic top-level domains (TLDs)/th pop. 15–69.....	19.3	36
7.3.2	Country-code TLDs/th pop. 15–69.....	58.2	24 ●
7.3.3	Wikipedia monthly edits/mn pop. 15–69.....	3,818.3	36
7.3.4	Video uploads on YouTube/pop. 15–69.....	62.9	45

Key indicators

Population (millions)	2.0
GDP per capita, PPP\$	29,179.1
GDP (US\$ billions)	52.4

	Score (0–100) or value (hard data)	Rank
Global Innovation Index 2012 (out of 141).....	49.9	26
Innovation Output Sub-Index	46.6	22
Innovation Input Sub-Index	53.2	32
Innovation Efficiency Index	0.9	20 ●
Global Innovation Index 2011 (out of 125)		30
GII 2012 rank among GII 2011 economies (125)		25

1	Institutions.....	78.0	25
1.1	Political environment	80.1	27
1.1.1	Political stability*.....	85.0	25
1.1.2	Government effectiveness*.....	68.1	30
1.1.3	Press freedom*.....	87.1	32
1.2	Regulatory environment.....	83.0	29
1.2.1	Regulatory quality*.....	70.9	40
1.2.2	Rule of law*.....	74.8	28
1.2.3	Cost of redundancy dismissal, salary weeks.....	11.4	45
1.3	Business environment	70.9	29
1.3.1	Ease of starting a business*.....	83.4	24
1.3.2	Ease of resolving insolvency*.....	76.2	34
1.3.3	Ease of paying taxes*.....	53.2	66
2	Human capital & research.....	51.5	27
2.1	Education.....	66.4	14 ●
2.1.1	Current expenditure on education, % GNI	4.9	41
2.1.2	Public expenditure/pupil, % GDP/cap.....	25.2	24
2.1.3	School life expectancy, years.....	16.9	8 ●
2.1.4	PISA scales in reading, maths, & science.....	498.8	20
2.1.5	Pupil-teacher ratio, secondary	9.2	19
2.2	Tertiary education	41.2	47
2.2.1	Tertiary enrolment, % gross.....	86.9	5 ●
2.2.2	Graduates in science & engineering, %	18.2	63
2.2.3	Tertiary inbound mobility, %.....	1.8	57
2.2.4	Gross tertiary outbound enrolment, %	1.9	49
2.3	Research & development (R&D).....	46.9	25
2.3.1	Researchers, headcounts/mn pop.	5,016.4	14 ●
2.3.2	Gross expenditure on R&D, % GDP.....	1.9	17
2.3.3	Quality of scientific research institutions†	60.0	32
3	Infrastructure.....	47.8	29
3.1	Information & communication technologies (ICT).....	51.9	37
3.1.1	ICT access*.....	72.1	24
3.1.2	ICT use*	47.8	29
3.1.3	Government's online service*.....	66.7	35
3.1.4	E-participation*.....	21.1	63
3.2	General infrastructure	40.5	46
3.2.1	Electricity output, kWh/cap.....	8,051.5	24
3.2.2	Electricity consumption, kWh/cap.....	6,096.5	30
3.2.3	Quality of trade & transport infrastructure*	41.3	57
3.2.4	Gross capital formation, % GDP.....	22.6	66
3.3	Ecological sustainability	50.9	17 ●
3.3.1	GDP/unit of energy use, 2000 PPP\$/kg oil eq.....	6.4	45
3.3.2	Environmental performance*.....	62.3	28
3.3.3	ISO 14001 environmental certificates/bn PPP\$ GDP	7.0	14 ●
4	Market sophistication	40.9	60
4.1	Credit	29.3	76
4.1.1	Ease of getting credit*	27.0	88 ○
4.1.2	Domestic credit to private sector, % GDP.....	94.4	36
4.1.3	Microfinance gross loans, % GDP	n/a	n/a

4.2	Investment.....	22.3	76
4.2.1	Ease of protecting investors*.....	82.0	20
4.2.2	Market capitalization, % GDP.....	19.7	76 ○
4.2.3	Total value of stocks traded, % GDP.....	0.6	83 ○
4.2.4	Venture capital deals/tr PPP\$ GDP.....	0.0	65 ○
4.3	Trade & competition	71.1	24
4.3.1	Applied tariff rate, weighted mean, %.....	1.6	11
4.3.2	Non-agricultural mkt access weighted tariff, %.....	2.0	92 ○
4.3.3	Imports of goods & services, % GDP.....	64.9	28
4.3.4	Exports of goods & services, % GDP.....	65.4	20 ●
4.3.5	Intensity of local competition†	68.7	49
5	Business sophistication	47.9	34
5.1	Knowledge workers.....	67.4	29
5.1.1	Knowledge-intensive employment, %.....	38.0	24
5.1.2	Firms offering formal training, % firms.....	47.5	35
5.1.3	R&D performed by business, %.....	64.6	17
5.1.4	R&D financed by business, %	58.0	17
5.1.5	GMAT mean score.....	567.0	21
5.1.6	GMAT test takers/mn pop. 20–34.....	65.3	68
5.2	Innovation linkages	28.8	104 ○
5.2.1	University/industry research collaboration†	49.2	43
5.2.2	State of cluster development†	43.5	58
5.2.3	R&D financed by abroad, %.....	6.0	55
5.2.4	JV–strategic alliance deals/tr PPP\$ GDP	23.7	59
5.2.5	PCT patent filings with foreign inventor, %.....	9.4	95 ○
5.3	Knowledge absorption.....	47.4	22
5.3.1	Royalty & license fees payments/th GDP.....	7.7	9 ●
5.3.2	High-tech imports less re-imports, %	6.7	85
5.3.3	Computer & comm. service imports, %.....	46.4	22
5.3.4	FDI net inflows, % GDP.....	0.8	114 ○
6	Knowledge & technology outputs	41.7	27
6.1	Knowledge creation.....	49.0	26
6.1.1	Domestic resident patent ap/bn PPP\$ GDP	10.2	18
6.1.2	PCT resident patent ap/bn PPP\$ GDP	2.1	20
6.1.3	Domestic res utility model ap/bn PPP\$ GDP.....	0.2	51 ○
6.1.4	Scientific & technical articles/bn PPP\$ GDP.....	22.3	9 ●
6.2	Knowledge impact	47.4	24
6.2.1	Growth rate of PPP\$ GDP/worker, %.....	3.5	40
6.2.2	New businesses/th pop. 15–64.....	4.2	25
6.2.3	Computer software spending, % GDP.....	0.5	22
6.2.4	ISO 9001 quality certificates/bn PPP\$ GDP	30.0	14 ●
6.3	Knowledge diffusion	28.7	58
6.3.1	Royalty & license fees receipts/th GDP.....	1.4	25
6.3.2	High-tech exports less re-exports, %.....	4.7	44
6.3.3	Computer & comm. service exports, %	29.7	61
6.3.4	FDI net outflows, % GDP	–0.2	108 ○
7	Creative outputs	51.5	13 ●
7.1	Creative intangibles.....	58.9	13 ●
7.1.1	Domestic res trademark reg/bn PPP\$ GDP.....	93.2	13
7.1.2	Madrid resident trademark reg/bn PPP\$ GDP.....	4.7	1 ●
7.1.3	ICT & business model creation†	51.2	69
7.1.4	ICT & organizational model creation†	40.2	98 ○
7.2	Creative goods & services	39.2	21
7.2.1	Recreation & culture consumption, %.....	10.3	12 ●
7.2.2	National feature films/mn pop. 15–69.....	2.7	41
7.2.3	Paid-for dailies, circulation/th pop. 15–69.....	197.3	25
7.2.4	Creative goods exports, %.....	2.3	37
7.2.5	Creative services exports, %.....	7.6	26
7.3	Online creativity.....	49.2	25
7.3.1	Generic top-level domains (TLDs)/th pop. 15–69.....	30.2	26
7.3.2	Country-code TLDs/th pop. 15–69.....	58.9	23
7.3.3	Wikipedia monthly edits/mn pop. 15–69.....	7,306.7	20
7.3.4	Video uploads on YouTube/pop. 15–69.....	70.4	25

South Africa

Key indicators

Population (millions)	50.6
GDP per capita, PPP\$	10,977.1
GDP (US\$ billions)	422.0

	Score (0–100) or value (hard data)	Rank
Global Innovation Index 2012 (out of 141).....	37.4	54
Innovation Output Sub-Index	28.5	73
Innovation Input Sub-Index	46.4	45
Innovation Efficiency Index	0.6	116 ○
Global Innovation Index 2011 (out of 125)	59	
GII 2012 rank among GII 2011 economies (125)	52	

1	Institutions.....	69.7	39
1.1	Political environment	66.6	46
1.1.1	Political stability*.....	64.7	71
1.1.2	Government effectiveness*.....	49.9	50
1.1.3	Press freedom*.....	85.1	38
1.2	Regulatory environment.....	76.7	41
1.2.1	Regulatory quality*.....	61.7	55
1.2.2	Rule of law*.....	50.3	56
1.2.3	Cost of redundancy dismissal, salary weeks.....	9.3	31
1.3	Business environment	65.9	34
1.3.1	Ease of starting a business*.....	58.2	58
1.3.2	Ease of resolving insolvency*.....	50.3	70
1.3.3	Ease of paying taxes*.....	89.2	16 ●

2	Human capital & research.....	27.2	103
2.1	Education.....	51.4	71
2.1.1	Current expenditure on education, % GNI	5.4	29
2.1.2	Public expenditure/pupil, % GDP/cap.....	n/a	n/a
2.1.3	School life expectancy, years.....	n/a	n/a
2.1.4	PISA scales in reading, maths, & science.....	n/a	n/a
2.1.5	Pupil-teacher ratio, secondary	25.0	112 ○
2.2	Tertiary education	0.7	141 ○
2.2.1	Tertiary enrolment, % gross.....	n/a	n/a
2.2.2	Graduates in science & engineering, %	n/a	n/a
2.2.3	Tertiary inbound mobility, %.....	n/a	n/a
2.2.4	Gross tertiary outbound enrolment, %	0.1	137 ○
2.3	Research & development (R&D).....	29.5	43
2.3.1	Researchers, headcounts/mn pop.	820.7	60
2.3.2	Gross expenditure on R&D, % GDP.....	0.9	35
2.3.3	Quality of scientific research institutions†	61.1	29

3	Infrastructure.....	30.8	79
3.1	Information & communication technologies (ICT).....	25.9	90
3.1.1	ICT access*.....	31.5	94
3.1.2	ICT use*.....	10.4	90
3.1.3	Government's online service*.....	45.8	81
3.1.4	E-participation*.....	15.8	78
3.2	General infrastructure	45.1	35
3.2.1	Electricity output, kWh/cap.....	4,989.8	44
3.2.2	Electricity consumption, kWh/cap.....	4,532.0	42
3.2.3	Quality of trade & transport infrastructure*.....	60.5	28 ●
3.2.4	Gross capital formation, % GDP.....	25.0	42
3.3	Ecological sustainability	21.4	105
3.3.1	GDP/unit of energy use, 2000 PPP\$/kg oil eq.....	3.7	91
3.3.2	Environmental performance*.....	34.5	120 ○
3.3.3	ISO 14001 environmental certificates/bn PPP\$ GDP	1.6	50

4	Market sophistication	62.5	13 ●
4.1	Credit	51.8	25 ●
4.1.1	Ease of getting credit*.....	100.0	1 ●
4.1.2	Domestic credit to private sector, % GDP.....	145.5	14 ●
4.1.3	Microfinance gross loans, % GDP.....	0.4	46

4.2	Investment.....	75.1	5 ●
4.2.1	Ease of protecting investors*.....	92.8	10 ●
4.2.2	Market capitalization, % GDP.....	278.4	1 ●
4.2.3	Total value of stocks traded, % GDP.....	93.5	9 ●
4.2.4	Venture capital deals/tr PPP\$ GDP.....	16.2	39

4.3	Trade & competition	60.7	83
4.3.1	Applied tariff rate, weighted mean, %.....	4.4	74
4.3.2	Non-agricultural mkt access weighted tariff, %.....	1.3	80
4.3.3	Imports of goods & services, % GDP	27.1	118 ○
4.3.4	Exports of goods & services, % GDP	25.5	106
4.3.5	Intensity of local competition†	69.2	47

5	Business sophistication	41.9	55
5.1	Knowledge workers.....	48.7	60
5.1.1	Knowledge-intensive employment, %.....	23.7	55
5.1.2	Firms offering formal training, % firms.....	36.8	47
5.1.3	R&D performed by business, %.....	57.7	24
5.1.4	R&D financed by business, %	42.7	38
5.1.5	GMAT mean score.....	472.0	92
5.1.6	GMAT test takers/mn pop. 20–34.....	57.6	73

5.2	Innovation linkages	35.7	67
5.2.1	University/industry research collaboration†	60.3	25 ●
5.2.2	State of cluster development†	46.4	48
5.2.3	R&D financed by abroad, %.....	10.7	30
5.2.4	JV-strategic alliance deals/tr PPP\$ GDP	20.2	66
5.2.5	PCT patent filings with foreign inventor, %.....	19.9	81 ○

5.3	Knowledge absorption	41.2	49
5.3.1	Royalty & license fees payments/th GDP.....	5.3	14 ●
5.3.2	High-tech imports less re-imports, %	13.4	28
5.3.3	Computer & comm. service imports, %.....	26.3	79
5.3.4	FDI net inflows, % GDP.....	0.4	124 ○

6	Knowledge & technology outputs	28.2	61
6.1	Knowledge creation.....	30.6	51
6.1.1	Domestic resident patent ap/bn PPP\$ GDP	1.6	60
6.1.2	PCT resident patent ap/bn PPP\$ GDP	0.6	35
6.1.3	Domestic res utility model ap/bn PPP\$ GDP.....	n/a	n/a
6.1.4	Scientific & technical articles/bn PPP\$ GDP.....	5.7	52

6.2	Knowledge impact	35.2	61
6.2.1	Growth rate of PPP\$ GDP/worker, %	2.0	72
6.2.2	New businesses/th pop. 15–64.....	0.8	71
6.2.3	Computer software spending, % GDP.....	0.7	14 ●
6.2.4	ISO 9001 quality certificates/bn PPP\$ GDP	6.3	61

6.3	Knowledge diffusion	18.9	106
6.3.1	Royalty & license fees receipts/th GDP.....	0.2	64
6.3.2	High-tech exports less re-exports, %.....	2.2	58
6.3.3	Computer & comm. service exports, %	14.7	106 ○
6.3.4	FDI net outflows, % GDP	0.1	81

7	Creative outputs	28.8	86
7.1	Creative intangibles.....	42.3	61
7.1.1	Domestic res trademark reg/bn PPP\$ GDP.....	65.5	25
7.1.2	Madrid resident trademark reg/bn PPP\$ GDP.....	n/a	n/a
7.1.3	ICT & business model creation†	54.7	56
7.1.4	ICT & organizational model creation†	41.1	94

7.2	Creative goods & services	9.5	101
7.2.1	Recreation & culture consumption, %.....	3.6	65
7.2.2	National feature films/mn pop. 15–69.....	0.5	80 ○
7.2.3	Paid-for dailies, circulation/th pop. 15–69.....	47.9	84
7.2.4	Creative goods exports, %.....	0.4	92
7.2.5	Creative services exports, %.....	0.5	86

7.3	Online creativity.....	21.0	73
7.3.1	Generic top-level domains (TLDs)/th pop. 15–69.....	7.4	51
7.3.2	Country-code TLDs/th pop. 15–69.....	43.2	42
7.3.3	Wikipedia monthly edits/mn pop. 15–69.....	178.0	99 ○
7.3.4	Video uploads on YouTube/pop. 15–69.....	32.6	108 ○

Key indicators

Population (millions)	46.1
GDP per capita, PPP\$	30,622.2
GDP (US\$ billions)	1,536.5

	Score (0–100) or value (hard data)	Rank
Global Innovation Index 2012 (out of 141).....	47.2	29
Innovation Output Sub-Index	38.5	35
Innovation Input Sub-Index	56.0	26
Innovation Efficiency Index	0.7	87 ○
Global Innovation Index 2011 (out of 125) .....	.....	32
GII 2012 rank among GII 2011 economies (125) .....	.....	28

1	Institutions.....	68.5	43
1.1	Political environment	71.5	43
1.1.1	Political stability*.....	61.0	80
1.1.2	Government effectiveness*.....	66.8	32
1.1.3	Press freedom*.....	86.7	35
1.2	Regulatory environment.....	81.1	35
1.2.1	Regulatory quality*.....	82.0	26
1.2.2	Rule of law*.....	79.4	24
1.2.3	Cost of redundancy dismissal, salary weeks.....	17.4	83 ○
1.3	Business environment	53.0	62
1.3.1	Ease of starting a business*.....	12.9	122 ○
1.3.2	Ease of resolving insolvency*.....	86.3	20
1.3.3	Ease of paying taxes*.....	59.7	57
2	Human capital & research.....	48.7	33
2.1	Education.....	60.7	34
2.1.1	Current expenditure on education, % GNI	4.0	77
2.1.2	Public expenditure/pupil, % GDP/cap.....	23.1	42
2.1.3	School life expectancy, years.....	16.4	12 ●
2.1.4	PISA scales in reading, maths, & science.....	484.3	32
2.1.5	Pupil-teacher ratio, secondary	10.5	36
2.2	Tertiary education	44.6	35
2.2.1	Tertiary enrolment, % gross.....	73.2	16 ●
2.2.2	Graduates in science & engineering, %	25.3	23
2.2.3	Tertiary inbound mobility, %.....	2.7	48
2.2.4	Gross tertiary outbound enrolment, %	0.9	80
2.3	Research & development (R&D).....	40.7	30
2.3.1	Researchers, headcounts/mn pop.	4,822.5	16 ●
2.3.2	Gross expenditure on R&D, % GDP.....	1.4	27
2.3.3	Quality of scientific research institutions†	54.2	37
3	Infrastructure.....	59.7	10 ●
3.1	Information & communication technologies (ICT).....	62.3	23
3.1.1	ICT access*.....	69.8	29
3.1.2	ICT use*	53.5	21
3.1.3	Government's online service*.....	75.8	23
3.1.4	E-participation*.....	50.0	31
3.2	General infrastructure	47.4	28
3.2.1	Electricity output, kWh/cap.....	6,417.0	32
3.2.2	Electricity consumption, kWh/cap.....	6,053.1	31
3.2.3	Quality of trade & transport infrastructure*	64.5	24
3.2.4	Gross capital formation, % GDP.....	23.0	60
3.3	Ecological sustainability	69.5	1 ●
3.3.1	GDP/unit of energy use, 2000 PPP\$/kg oil eq.....	8.2	27
3.3.2	Environmental performance*.....	60.3	31
3.3.3	ISO 14001 environmental certificates/bn PPP\$ GDP	13.4	1 ●
4	Market sophistication	58.3	17 ●
4.1	Credit	65.8	11 ●
4.1.1	Ease of getting credit*	57.7	43
4.1.2	Domestic credit to private sector, % GDP.....	211.6	3 ●
4.1.3	Microfinance gross loans, % GDP	n/a	n/a

4.2	Investment.....	45.7	22
4.2.1	Ease of protecting investors*.....	35.9	76 ○
4.2.2	Market capitalization, % GDP.....	83.2	23
4.2.3	Total value of stocks traded, % GDP.....	66.6	15 ●
4.2.4	Venture capital deals/tr PPP\$ GDP.....	76.4	18 ●
4.3	Trade & competition	63.4	71
4.3.1	Applied tariff rate, weighted mean, %.....	1.6	11
4.3.2	Non-agricultural mkt access weighted tariff, %.....	2.0	92 ○
4.3.3	Imports of goods & services, % GDP	28.4	112 ○
4.3.4	Exports of goods & services, % GDP	26.3	100 ○
4.3.5	Intensity of local competition†	74.8	21
5	Business sophistication	45.0	41
5.1	Knowledge workers.....	63.4	34
5.1.1	Knowledge-intensive employment, %.....	32.4	36
5.1.2	Firms offering formal training, % firms.....	51.3	27
5.1.3	R&D performed by business, %.....	51.9	32
5.1.4	R&D financed by business, %	45.0	34
5.1.5	GMAT mean score.....	578.8	13 ●
5.1.6	GMAT test takers/mn pop. 20–34.....	110.8	49
5.2	Innovation linkages	31.6	91 ○
5.2.1	University/industry research collaboration†	51.9	39
5.2.2	State of cluster development†	48.3	40
5.2.3	R&D financed by abroad, %.....	5.7	57 ○
5.2.4	JV–strategic alliance deals/tr PPP\$ GDP	24.1	58
5.2.5	PCT patent filings with foreign inventor, %.....	18.1	85 ○
5.3	Knowledge absorption	39.9	54
5.3.1	Royalty & license fees payments/th GDP.....	1.9	50
5.3.2	High-tech imports less re-imports, %	9.4	57
5.3.3	Computer & comm. service imports, %.....	51.1	13 ●
5.3.4	FDI net inflows, % GDP	1.8	84
6	Knowledge & technology outputs	38.4	33
6.1	Knowledge creation.....	39.4	32
6.1.1	Domestic resident patent ap/bn PPP\$ GDP	3.6	40
6.1.2	PCT resident patent ap/bn PPP\$ GDP	1.2	29
6.1.3	Domestic res utility model ap/bn PPP\$ GDP.....	1.8	20
6.1.4	Scientific & technical articles/bn PPP\$ GDP.....	15.9	21
6.2	Knowledge impact	46.5	26
6.2.1	Growth rate of PPP\$ GDP/worker, %.....	1.8	77 ○
6.2.2	New businesses/th pop. 15–64.....	2.9	35
6.2.3	Computer software spending, % GDP.....	0.7	13
6.2.4	ISO 9001 quality certificates/bn PPP\$ GDP	43.6	7 ●
6.3	Knowledge diffusion	29.3	57
6.3.1	Royalty & license fees receipts/th GDP.....	0.6	39
6.3.2	High-tech exports less re-exports, %.....	4.9	42
6.3.3	Computer & comm. service exports, %	35.6	48
6.3.4	FDI net outflows, % GDP	1.5	32
7	Creative outputs	38.5	39
7.1	Creative intangibles.....	33.7	99 ○
7.1.1	Domestic res trademark reg/bn PPP\$ GDP.....	57.7	28
7.1.2	Madrid resident trademark reg/bn PPP\$ GDP.....	0.4	37
7.1.3	ICT & business model creation†	57.8	48
7.1.4	ICT & organizational model creation†	41.0	95 ○
7.2	Creative goods & services	38.7	22
7.2.1	Recreation & culture consumption, %.....	9.9	14
7.2.2	National feature films/mn pop. 15–69.....	5.9	19
7.2.3	Paid-for dailies, circulation/th pop. 15–69.....	118.1	48
7.2.4	Creative goods exports, %.....	2.1	41
7.2.5	Creative services exports, %.....	7.7	24
7.3	Online creativity.....	48.0	28
7.3.1	Generic top-level domains (TLDs)/th pop. 15–69.....	32.2	24
7.3.2	Country-code TLDs/th pop. 15–69.....	53.3	33
7.3.3	Wikipedia monthly edits/mn pop. 15–69.....	6,915.5	25
7.3.4	Video uploads on YouTube/pop. 15–69.....	71.4	21

Sri Lanka

Key indicators

Population (millions)	20.5
GDP per capita, PPP\$	5,609.4
GDP (US\$ billions)	58.8

	Score (0–100) or value (hard data)	Rank
Global Innovation Index 2012 (out of 141).....	29.1	94
Innovation Output Sub-Index	28.0	76
Innovation Input Sub-Index	30.3	115
Innovation Efficiency Index	0.9	10 ●
Global Innovation Index 2011 (out of 125)	82	
GII 2012 rank among GII 2011 economies (125)	89	

1	Institutions.....	38.0	126
1.1	Political environment	38.7	119
1.1.1	Political stability*.....	45.4	110
1.1.2	Government effectiveness*.....	36.6	77
1.1.3	Press freedom*.....	34.1	130 ○
1.2	Regulatory environment.....	23.0	138 ○
1.2.1	Regulatory quality*.....	46.5	87
1.2.2	Rule of law*.....	45.4	63
1.2.3	Cost of redundancy dismissal, salary weeks.....	58.5	137 ○
1.3	Business environment	52.2	64
1.3.1	Ease of starting a business*.....	79.1	30 ●
1.3.2	Ease of resolving insolvency*.....	72.6	39 ●
1.3.3	Ease of paying taxes*.....	5.0	133 ○
2	Human capital & research.....	23.8	112
2.1	Education.....	45.1	91
2.1.1	Current expenditure on education, % GNI	1.7	130 ○
2.1.2	Public expenditure/pupil, % GDP/cap.....	n/a	n/a
2.1.3	School life expectancy, years.....	12.7	77
2.1.4	PISA scales in reading, maths, & science.....	n/a	n/a
2.1.5	Pupil-teacher ratio, secondary	16.7	78
2.2	Tertiary education	8.2	128 ○
2.2.1	Tertiary enrolment, % gross.....	15.5	96
2.2.2	Graduates in science & engineering, %	n/a	n/a
2.2.3	Tertiary inbound mobility, %.....	0.0	90 ○
2.2.4	Gross tertiary outbound enrolment, %	1.0	76
2.3	Research & development (R&D).....	18.1	86
2.3.1	Researchers, headcounts/mn pop.	197.2	84
2.3.2	Gross expenditure on R&D, % GDP.....	0.1	95
2.3.3	Quality of scientific research institutions†	50.7	47
3	Infrastructure.....	30.4	81
3.1	Information & communication technologies (ICT).....	21.3	101
3.1.1	ICT access*.....	31.5	95
3.1.2	ICT use*.....	7.7	96
3.1.3	Government's online service*.....	37.9	96
3.1.4	E-participation*.....	7.9	98
3.2	General infrastructure	27.2	117
3.2.1	Electricity output, kWh/cap.....	488.3	107
3.2.2	Electricity consumption, kWh/cap.....	415.8	108
3.2.3	Quality of trade & transport infrastructure*.....	22.0	128 ○
3.2.4	Gross capital formation, % GDP.....	27.8	24 ●
3.3	Ecological sustainability	42.7	34 ●
3.3.1	GDP/unit of energy use, 2000 PPP\$/kg oil eq.....	11.0	8 ●
3.3.2	Environmental performance*.....	55.7	53
3.3.3	ISO 14001 environmental certificates/bn PPP\$ GDP	0.8	68
4	Market sophistication	27.0	122
4.1	Credit	19.5	91
4.1.1	Ease of getting credit*.....	38.7	72
4.1.2	Domestic credit to private sector, % GDP.....	26.7	99
4.1.3	Microfinance gross loans, % GDP.....	1.1	35

4.2	Investment.....	16.3	96
4.2.1	Ease of protecting investors*.....	46.7	60
4.2.2	Market capitalization, % GDP.....	40.2	55
4.2.3	Total value of stocks traded, % GDP.....	6.7	54
4.2.4	Venture capital deals/tr PPP\$ GDP.....	0.0	65 ○
4.3	Trade & competition	45.2	131 ○
4.3.1	Applied tariff rate, weighted mean, %.....	6.9	99
4.3.2	Non-agricultural mkt access weighted tariff, %.....	4.9	135 ○
4.3.3	Imports of goods & services, % GDP.....	30.8	105
4.3.4	Exports of goods & services, % GDP.....	21.7	119
4.3.5	Intensity of local competition†	72.7	33 ●
5	Business sophistication	32.1	111
5.1	Knowledge workers.....	36.3	102
5.1.1	Knowledge-intensive employment, %.....	19.7	70
5.1.2	Firms offering formal training, % firms.....	32.6	56
5.1.3	R&D performed by business, %.....	18.3	67
5.1.4	R&D financed by business, %	19.9	63
5.1.5	GMAT mean score.....	495.1	78
5.1.6	GMAT test takers/mn pop. 20–34.....	32.2	101
5.2	Innovation linkages	33.5	79
5.2.1	University/industry research collaboration†	41.6	70
5.2.2	State of cluster development†	49.9	35 ●
5.2.3	R&D financed by abroad, %.....	4.3	64
5.2.4	JV–strategic alliance deals/tr PPP\$ GDP	76.5	19 ●
5.2.5	PCT patent filings with foreign inventor, %.....	25.0	71
5.3	Knowledge absorption	26.7	114
5.3.1	Royalty & license fees payments/th GDP.....	n/a	n/a
5.3.2	High-tech imports less re-imports, %	5.0	102
5.3.3	Computer & comm. service imports, %.....	15.2	114
5.3.4	FDI net inflows, % GDP.....	1.0	110
6	Knowledge & technology outputs	27.1	66
6.1	Knowledge creation.....	20.4	75
6.1.1	Domestic resident patent ap/bn PPP\$ GDP	2.1	52
6.1.2	PCT resident patent ap/bn PPP\$ GDP	0.1	67
6.1.3	Domestic res utility model ap/bn PPP\$ GDP.....	n/a	n/a
6.1.4	Scientific & technical articles/bn PPP\$ GDP.....	1.4	100
6.2	Knowledge impact	30.0	82
6.2.1	Growth rate of PPP\$ GDP/worker, %.....	5.9	11 ●
6.2.2	New businesses/th pop. 15–64.....	0.3	87
6.2.3	Computer software spending, % GDP.....	0.0	73 ○
6.2.4	ISO 9001 quality certificates/bn PPP\$ GDP	3.8	73
6.3	Knowledge diffusion	30.7	52
6.3.1	Royalty & license fees receipts/th GDP.....	n/a	n/a
6.3.2	High-tech exports less re-exports, %.....	0.8	79
6.3.3	Computer & comm. service exports, %	31.2	56
6.3.4	FDI net outflows, % GDP	0.1	85
7	Creative outputs	28.9	85
7.1	Creative intangibles.....	41.7	64
7.1.1	Domestic res trademark reg/bn PPP\$ GDP.....	5.4	79 ○
7.1.2	Madrid resident trademark reg/bn PPP\$ GDP.....	n/a	n/a
7.1.3	ICT & business model creation†	58.1	47
7.1.4	ICT & organizational model creation†	64.6	20 ●
7.2	Creative goods & services	20.7	71
7.2.1	Recreation & culture consumption, %.....	2.9	72
7.2.2	National feature films/mn pop. 15–69.....	n/a	n/a
7.2.3	Paid-for dailies, circulation/th pop. 15–69.....	40.7	87
7.2.4	Creative goods exports, %.....	2.0	42 ●
7.2.5	Creative services exports, %.....	n/a	n/a
7.3	Online creativity.....	11.3	106
7.3.1	Generic top-level domains (TLDs)/th pop. 15–69.....	1.1	96
7.3.2	Country-code TLDs/th pop. 15–69.....	6.4	104
7.3.3	Wikipedia monthly edits/mn pop. 15–69.....	342.5	86
7.3.4	Video uploads on YouTube/pop. 15–69.....	36.1	101

Key indicators

Population (millions)	32.7
GDP per capita, PPP\$	2,981.1
GDP (US\$ billions)	63.3

	Score (0–100) or value (hard data)	Rank
Global Innovation Index 2012 (out of 141).....	16.8	141 ○
Innovation Output Sub-Index	10.3	141 ○
Innovation Input Sub-Index	23.3	141 ○
Innovation Efficiency Index	0.4	141 ○
Global Innovation Index 2011 (out of 125)	124	
GII 2012 rank among GII 2011 economies (125)	125	

1	Institutions.....	30.4	137
1.1	Political environment	10.1	141 ○
1.1.1	Political stability*.....	0.1	140 ○
1.1.2	Government effectiveness*.....	5.0	139 ○
1.1.3	Press freedom*.....	25.2	134
1.2	Regulatory environment.....	39.7	131
1.2.1	Regulatory quality*.....	17.2	137
1.2.2	Rule of law*.....	12.8	138 ○
1.2.3	Cost of redundancy dismissal, salary weeks.....	26.0	110
1.3	Business environment	41.4	92
1.3.1	Ease of starting a business*.....	29.4	99
1.3.2	Ease of resolving insolvency*.....	46.7	75 ●
1.3.3	Ease of paying taxes*.....	48.2	73 ●
2	Human capital & research.....	14.5	137
2.1	Education.....	28.6	127
2.1.1	Current expenditure on education, % GNI	0.9	137 ○
2.1.2	Public expenditure/pupil, % GDP/cap.....	n/a	n/a
2.1.3	School life expectancy, years.....	n/a	n/a
2.1.4	PISA scales in reading, maths, & science.....	n/a	n/a
2.1.5	Pupil-teacher ratio, secondary	22.2	100
2.2	Tertiary education	10.8	123
2.2.1	Tertiary enrolment, % gross.....	n/a	n/a
2.2.2	Graduates in science & engineering, %	n/a	n/a
2.2.3	Tertiary inbound mobility, %.....	n/a	n/a
2.2.4	Gross tertiary outbound enrolment, %	1.0	73 ●
2.3	Research & development (R&D).....	4.2	136 ○
2.3.1	Researchers, headcounts/mn pop.	291.8	80
2.3.2	Gross expenditure on R&D, % GDP.....	0.3	71
2.3.3	Quality of scientific research institutions†.....	n/a	n/a
3	Infrastructure.....	20.9	124
3.1	Information & communication technologies (ICT).....	14.0	123
3.1.1	ICT access*.....	18.9	123
3.1.2	ICT use*	3.6	115
3.1.3	Government's online service*.....	25.5	123
3.1.4	E-participation*.....	7.9	98
3.2	General infrastructure	22.8	130
3.2.1	Electricity output, kWh/cap.....	172.6	117
3.2.2	Electricity consumption, kWh/cap.....	114.8	119
3.2.3	Quality of trade & transport infrastructure*.....	19.5	133
3.2.4	Gross capital formation, % GDP.....	23.3	59 ●
3.3	Ecological sustainability	25.9	91
3.3.1	GDP/unit of energy use, 2000 PPP\$/kg oil eq.....	5.7	59 ●
3.3.2	Environmental performance*.....	46.0	99
3.3.3	ISO 14001 environmental certificates/bn PPP\$ GDP	0.0	133 ○
4	Market sophistication	16.4	140 ○
4.1	Credit	1.5	141 ○
4.1.1	Ease of getting credit*.....	2.8	126
4.1.2	Domestic credit to private sector, % GDP.....	11.6	135
4.1.3	Microfinance gross loans, % GDP.....	0.0	89

4.2	Investment.....	3.6	129
4.2.1	Ease of protecting investors*.....	7.1	123
4.2.2	Market capitalization, % GDP.....	n/a	n/a
4.2.3	Total value of stocks traded, % GDP.....	n/a	n/a
4.2.4	Venture capital deals/tr PPP\$ GDP.....	0.0	65 ○
4.3	Trade & competition	44.3	133
4.3.1	Applied tariff rate, weighted mean, %.....	14.8	135
4.3.2	Non-agricultural mkt access weighted tariff, %.....	0.0	14 ●
4.3.3	Imports of goods & services, % GDP.....	18.9	134
4.3.4	Exports of goods & services, % GDP.....	19.8	127
4.3.5	Intensity of local competition†	n/a	n/a
5	Business sophistication	34.4	93
5.1	Knowledge workers.....	28.4	119
5.1.1	Knowledge-intensive employment, %.....	n/a	n/a
5.1.2	Firms offering formal training, % firms.....	n/a	n/a
5.1.3	R&D performed by business, %.....	33.7	50
5.1.4	R&D financed by business, %	n/a	n/a
5.1.5	GMAT mean score.....	423.5	117
5.1.6	GMAT test takers/mn pop. 20–34.....	3.4	136
5.2	Innovation linkages	54.9	10 ●
5.2.1	University/industry research collaboration†	n/a	n/a
5.2.2	State of cluster development†	n/a	n/a
5.2.3	R&D financed by abroad, %.....	n/a	n/a
5.2.4	JV–strategic alliance deals/tr PPP\$ GDP	16.4	71 ●
5.2.5	PCT patent filings with foreign inventor, %.....	100.0	1 ●
5.3	Knowledge absorption	19.9	140 ○
5.3.1	Royalty & license fees payments/th GDP.....	0.2	106
5.3.2	High-tech imports less re-imports, %	8.3	67 ●
5.3.3	Computer & comm. service imports, %.....	1.6	134 ○
5.3.4	FDI net inflows, % GDP.....	4.7	40 ●
6	Knowledge & technology outputs	18.2	116
6.1	Knowledge creation.....	9.7	112
6.1.1	Domestic resident patent ap/bn PPP\$ GDP	0.0	108 ○
6.1.2	PCT resident patent ap/bn PPP\$ GDP	0.0	103
6.1.3	Domestic res utility model ap/bn PPP\$ GDP.....	n/a	n/a
6.1.4	Scientific & technical articles/bn PPP\$ GDP.....	0.7	123
6.2	Knowledge impact	29.4	85
6.2.1	Growth rate of PPP\$ GDP/worker, %	2.2	65
6.2.2	New businesses/th pop. 15–64.....	n/a	n/a
6.2.3	Computer software spending, % GDP.....	n/a	n/a
6.2.4	ISO 9001 quality certificates/bn PPP\$ GDP	0.7	118
6.3	Knowledge diffusion	15.4	121
6.3.1	Royalty & license fees receipts/th GDP.....	0.0	79
6.3.2	High-tech exports less re-exports, %.....	0.1	109
6.3.3	Computer & comm. service exports, %	9.0	122
6.3.4	FDI net outflows, % GDP	0.2	74
7	Creative outputs	2.4	141 ○
7.1	Creative intangibles.....	2.7	136 ○
7.1.1	Domestic res trademark reg/bn PPP\$ GDP.....	11.5	74
7.1.2	Madrid resident trademark reg/bn PPP\$ GDP.....	0.0	61 ○
7.1.3	ICT & business model creation†	n/a	n/a
7.1.4	ICT & organizational model creation†	n/a	n/a
7.2	Creative goods & services	1.9	132
7.2.1	Recreation & culture consumption, %.....	n/a	n/a
7.2.2	National feature films/mn pop. 15–69.....	n/a	n/a
7.2.3	Paid-for dailies, circulation/th pop. 15–69.....	3.9	128
7.2.4	Creative goods exports, %.....	0.0	132 ○
7.2.5	Creative services exports, %.....	1.3	66
7.3	Online creativity.....	2.2	139 ○
7.3.1	Generic top-level domains (TLDs)/th pop. 15–69.....	0.1	134
7.3.2	Country-code TLDs/th pop. 15–69.....	0.2	133
7.3.3	Wikipedia monthly edits/mn pop. 15–69.....	16.5	121
7.3.4	Video uploads on YouTube/pop. 15–69.....	8.6	136 ○

Swaziland

Key indicators

Population (millions)	1.2
GDP per capita, PPP\$	5,179.1
GDP (US\$ billions)	3.9

	Score (0–100) or value (hard data)	Rank
Global Innovation Index 2012 (out of 141)	32.0	82
Innovation Output Sub-Index	30.4	65
Innovation Input Sub-Index	33.7	99
Innovation Efficiency Index	0.9	12 ●
Global Innovation Index 2011 (out of 125)		101
GII 2012 rank among GII 2011 economies (125)		78

1	Institutions	51.0	81
1.1	Political environment	46.4	95
1.1.1	Political stability*	64.0	73
1.1.2	Government effectiveness*	27.2	98
1.1.3	Press freedom*	48.0	118
1.2	Regulatory environment	61.0	87
1.2.1	Regulatory quality*	35.2	118
1.2.2	Rule of law*	34.6	90
1.2.3	Cost of redundancy dismissal, salary weeks	14.6	65
1.3	Business environment	45.5	80
1.3.1	Ease of starting a business*	7.9	129
1.3.2	Ease of resolving insolvency*	58.2	59
1.3.3	Ease of paying taxes*	70.5	42
2	Human capital & research	30.3	89
2.1	Education	58.5	43
2.1.1	Current expenditure on education, % GNI	7.2	10 ●
2.1.2	Public expenditure/pupil, % GDP/cap	29.6	8 ●
2.1.3	School life expectancy, years	10.7	108
2.1.4	PISA scales in reading, maths, & science	n/a	n/a
2.1.5	Pupil-teacher ratio, secondary	18.2	89
2.2	Tertiary education	12.8	119
2.2.1	Tertiary enrolment, % gross	4.4	122
2.2.2	Graduates in science & engineering, %	2.4	105 ○
2.2.3	Tertiary inbound mobility, %	2.1	54
2.2.4	Gross tertiary outbound enrolment, %	2.8	31 ●
2.3	Research & development (R&D)	19.5	81
2.3.1	Researchers, headcounts/mn pop.	n/a	n/a
2.3.2	Gross expenditure on R&D, % GDP	n/a	n/a
2.3.3	Quality of scientific research institutions†	19.5	128 ○
3	Infrastructure	16.6	136 ○
3.1	Information & communication technologies (ICT)	10.9	135 ○
3.1.1	ICT access*	21.1	116
3.1.2	ICT use*	2.7	122
3.1.3	Government's online service*	14.4	138 ○
3.1.4	E-participation*	5.3	110
3.2	General infrastructure	33.9	86
3.2.1	Electricity output, kWh/cap	n/a	n/a
3.2.2	Electricity consumption, kWh/cap	n/a	n/a
3.2.3	Quality of trade & transport infrastructure*	n/a	n/a
3.2.4	Gross capital formation, % GDP	16.6	121
3.3	Ecological sustainability	5.0	127
3.3.1	GDP/unit of energy use, 2000 PPP\$/kg oil eq	n/a	n/a
3.3.2	Environmental performance*	n/a	n/a
3.3.3	ISO 14001 environmental certificates/bn PPP\$ GDP	0.7	70
4	Market sophistication	26.4	123
4.1	Credit	27.0	81
4.1.1	Ease of getting credit*	57.7	43
4.1.2	Domestic credit to private sector, % GDP	23.0	111
4.1.3	Microfinance gross loans, % GDP	1.5	30

4.2	Investment	6.2	122
4.2.1	Ease of protecting investors*	22.3	100
4.2.2	Market capitalization, % GDP	6.9	96
4.2.3	Total value of stocks traded, % GDP	0.0	108 ○
4.2.4	Venture capital deals/tr PPP\$ GDP	0.0	65 ○
4.3	Trade & competition	46.1	130
4.3.1	Applied tariff rate, weighted mean, %	10.2	124
4.3.2	Non-agricultural mkt access weighted tariff, %	4.7	134 ○
4.3.3	Imports of goods & services, % GDP	76.9	15 ●
4.3.4	Exports of goods & services, % GDP	58.1	24 ●
4.3.5	Intensity of local competition†	50.7	115
5	Business sophistication	44.0	46
5.1	Knowledge workers	46.1	66
5.1.1	Knowledge-intensive employment, %	n/a	n/a
5.1.2	Firms offering formal training, % firms	51.0	28
5.1.3	R&D performed by business, %	n/a	n/a
5.1.4	R&D financed by business, %	n/a	n/a
5.1.5	GMAT mean score	416.9	120
5.1.6	GMAT test takers/mn pop. 20–34	21.9	111
5.2	Innovation linkages	34.8	71
5.2.1	University/industry research collaboration†	24.8	124 ○
5.2.2	State of cluster development†	29.7	114
5.2.3	R&D financed by abroad, %	n/a	n/a
5.2.4	JV-strategic alliance deals/tr PPP\$ GDP	0.0	114 ○
5.2.5	PCT patent filings with foreign inventor, %	100.0	1 ●
5.3	Knowledge absorption	51.1	16 ●
5.3.1	Royalty & license fees payments/th GDP	4.4	19 ●
5.3.2	High-tech imports less re-imports, %	n/a	n/a
5.3.3	Computer & comm. service imports, %	47.7	20 ●
5.3.4	FDI net inflows, % GDP	2.5	67
6	Knowledge & technology outputs	35.9	40
6.1	Knowledge creation	32.8	45
6.1.1	Domestic resident patent ap/bn PPP\$ GDP	n/a	n/a
6.1.2	PCT resident patent ap/bn PPP\$ GDP	0.3	48
6.1.3	Domestic res utility model ap/bn PPP\$ GDP	n/a	n/a
6.1.4	Scientific & technical articles/bn PPP\$ GDP	1.3	103
6.2	Knowledge impact	30.1	80
6.2.1	Growth rate of PPP\$ GDP/worker, %	n/a	n/a
6.2.2	New businesses/th pop. 15–64	n/a	n/a
6.2.3	Computer software spending, % GDP	n/a	n/a
6.2.4	ISO 9001 quality certificates/bn PPP\$ GDP	2.8	84
6.3	Knowledge diffusion	44.9	27 ●
6.3.1	Royalty & license fees receipts/th GDP	0.1	75
6.3.2	High-tech exports less re-exports, %	n/a	n/a
6.3.3	Computer & comm. service exports, %	64.2	8 ●
6.3.4	FDI net outflows, % GDP	0.1	80
7	Creative outputs	24.9	101
7.1	Creative intangibles	25.8	125
7.1.1	Domestic res trademark reg/bn PPP\$ GDP	n/a	n/a
7.1.2	Madrid resident trademark reg/bn PPP\$ GDP	n/a	n/a
7.1.3	ICT & business model creation†	24.0	132 ○
7.1.4	ICT & organizational model creation†	27.6	126 ○
7.2	Creative goods & services	30.0	44
7.2.1	Recreation & culture consumption, %	n/a	n/a
7.2.2	National feature films/mn pop. 15–69	n/a	n/a
7.2.3	Paid-for dailies, circulation/th pop. 15–69	36.3	92
7.2.4	Creative goods exports, %	n/a	n/a
7.2.5	Creative services exports, %	12.4	11 ●
7.3	Online creativity	18.1	82
7.3.1	Generic top-level domains (TLDs)/th pop. 15–69	0.6	109
7.3.2	Country-code TLDs/th pop. 15–69	13.5	85
7.3.3	Wikipedia monthly edits/mn pop. 15–69	n/a	n/a
7.3.4	Video uploads on YouTube/pop. 15–69	40.1	99

Key indicators

Population (millions)	9.4
GDP per capita, PPP\$	40,613.8
GDP (US\$ billions)	571.6

	Score (0–100) or value (hard data)	Rank
Global Innovation Index 2012 (out of 141).....	64.8	2 ●
Innovation Output Sub-Index	60.7	2 ●
Innovation Input Sub-Index	68.8	3 ●
Innovation Efficiency Index	0.9	18
Global Innovation Index 2011 (out of 125)		2
GII 2012 rank among GII 2011 economies (125)		2
1 Institutions.....	88.6	12
1.1 Political environment	94.1	6
1.1.1 Political stability*.....	91.3	10
1.1.2 Government effectiveness*.....	93.9	4 ●
1.1.3 Press freedom*.....	97.0	11
1.2 Regulatory environment.....	92.3	16
1.2.1 Regulatory quality*.....	95.4	8
1.2.2 Rule of law*.....	99.4	2 ●
1.2.3 Cost of redundancy dismissal, salary weeks.....	14.4	64 ○
1.3 Business environment	79.6	16
1.3.1 Ease of starting a business*.....	76.2	34
1.3.2 Ease of resolving insolvency*.....	88.4	17
1.3.3 Ease of paying taxes*.....	74.1	37
2 Human capital & research.....	62.8	6
2.1 Education.....	69.2	11
2.1.1 Current expenditure on education, % GNI	6.1	17
2.1.2 Public expenditure/pupil, % GDP/cap.....	29.0	9
2.1.3 School life expectancy, years.....	15.8	22
2.1.4 PISA scales in reading, maths, & science.....	495.6	25
2.1.5 Pupil-teacher ratio, secondary	9.6	23
2.2 Tertiary education	50.2	18
2.2.1 Tertiary enrolment, % gross.....	70.8	18
2.2.2 Graduates in science & engineering, %	24.2	31
2.2.3 Tertiary inbound mobility, %.....	6.4	24
2.2.4 Gross tertiary outbound enrolment, %	2.5	33
2.3 Research & development (R&D).....	68.9	7
2.3.1 Researchers, headcounts/mn pop.	5,238.7	13
2.3.2 Gross expenditure on R&D, % GDP.....	3.6	3 ●
2.3.3 Quality of scientific research institutions†	83.0	4
3 Infrastructure.....	69.8	1 ●
3.1 Information & communication technologies (ICT).....	78.5	6
3.1.1 ICT access*.....	85.7	5
3.1.2 ICT use*	75.5	2 ●
3.1.3 Government's online service*	84.3	16
3.1.4 E-participation*.....	68.4	15
3.2 General infrastructure	63.6	6
3.2.1 Electricity output, kWh/cap.....	16,380.9	5
3.2.2 Electricity consumption, kWh/cap.....	15,476.5	8
3.2.3 Quality of trade & transport infrastructure*	75.8	10
3.2.4 Gross capital formation, % GDP.....	18.4	108 ○
3.3 Ecological sustainability	67.3	2 ●
3.3.1 GDP/unit of energy use, 2000 PPP\$/kg oil eq.....	6.0	54 ○
3.3.2 Environmental performance*.....	68.8	10
3.3.3 ISO 14001 environmental certificates/bn PPP\$ GDP	13.0	1 ●
4 Market sophistication	64.3	10
4.1 Credit	52.8	23
4.1.1 Ease of getting credit*	57.7	43 ○
4.1.2 Domestic credit to private sector, % GDP.....	140.0	15
4.1.3 Microfinance gross loans, % GDP	n/a	n/a

4.2 Investment.....	70.4	7
4.2.1 Ease of protecting investors*.....	76.2	27
4.2.2 Market capitalization, % GDP.....	126.9	12
4.2.3 Total value of stocks traded, % GDP.....	96.0	8
4.2.4 Venture capital deals/tr PPP\$ GDP.....	315.8	1 ●
4.3 Trade & competition	69.5	30
4.3.1 Applied tariff rate, weighted mean, %.....	1.6	11
4.3.2 Non-agricultural mkt access weighted tariff, %.....	2.0	92 ○
4.3.3 Imports of goods & services, % GDP	43.9	58
4.3.4 Exports of goods & services, % GDP	50.0	45
4.3.5 Intensity of local competition†	79.7	9
5 Business sophistication	58.6	10
5.1 Knowledge workers.....	77.6	12
5.1.1 Knowledge-intensive employment, %.....	44.5	6
5.1.2 Firms offering formal training, % firms.....	n/a	n/a
5.1.3 R&D performed by business, %.....	70.5	12
5.1.4 R&D financed by business, %	58.9	16
5.1.5 GMAT mean score.....	513.0	66 ○
5.1.6 GMAT test takers/mn pop. 20–34.....	273.9	22
5.2 Innovation linkages	50.0	23
5.2.1 University/industry research collaboration†	75.3	5
5.2.2 State of cluster development†	64.5	5
5.2.3 R&D financed by abroad, %.....	10.5	32
5.2.4 JV-strategic alliance deals/tr PPP\$ GDP	63.7	22
5.2.5 PCT patent filings with foreign inventor, %.....	42.2	57 ○
5.3 Knowledge absorption	48.2	21
5.3.1 Royalty & license fees payments/th GDP.....	3.0	33
5.3.2 High-tech imports less re-imports, %	14.9	21
5.3.3 Computer & comm. service imports, %.....	56.5	9
5.3.4 FDI net inflows, % GDP	1.2	106 ○
6 Knowledge & technology outputs	67.9	2 ●
6.1 Knowledge creation.....	84.6	2 ●
6.1.1 Domestic resident patent ap/bn PPP\$ GDP	16.2	9
6.1.2 PCT resident patent ap/bn PPP\$ GDP	9.1	3 ●
6.1.3 Domestic res utility model ap/bn PPP\$ GDP.....	n/a	n/a
6.1.4 Scientific & technical articles/bn PPP\$ GDP.....	28.4	3 ●
6.2 Knowledge impact	49.1	21
6.2.1 Growth rate of PPP\$ GDP/worker, %	3.2	46
6.2.2 New businesses/th pop. 15–64.....	4.1	26
6.2.3 Computer software spending, % GDP.....	0.8	9
6.2.4 ISO 9001 quality certificates/bn PPP\$ GDP	16.0	34
6.3 Knowledge diffusion	70.0	5
6.3.1 Royalty & license fees receipts/th GDP.....	13.4	1 ●
6.3.2 High-tech exports less re-exports, %.....	14.5	21
6.3.3 Computer & comm. service exports, %	62.7	10
6.3.4 FDI net outflows, % GDP	7.0	8
7 Creative outputs	53.6	7
7.1 Creative intangibles.....	47.9	35
7.1.1 Domestic res trademark reg/bn PPP\$ GDP.....	49.4	34
7.1.2 Madrid resident trademark reg/bn PPP\$ GDP.....	0.8	27 ○
7.1.3 ICT & business model creation†	79.9	1 ●
7.1.4 ICT & organizational model creation†	72.7	8
7.2 Creative goods & services	45.1	13
7.2.1 Recreation & culture consumption, %.....	11.3	5
7.2.2 National feature films/mn pop. 15–69.....	6.3	16
7.2.3 Paid-for dailies, circulation/th pop. 15–69.....	485.5	5
7.2.4 Creative goods exports, %.....	2.6	32
7.2.5 Creative services exports, %.....	0.6	81 ○
7.3 Online creativity.....	73.3	7
7.3.1 Generic top-level domains (TLDs)/th pop. 15–69.....	73.5	12
7.3.2 Country-code TLDs/th pop. 15–69.....	73.1	8
7.3.3 Wikipedia monthly edits/mn pop. 15–69.....	13,527.5	7
7.3.4 Video uploads on YouTube/pop. 15–69	77.6	10

Switzerland

Key indicators

Population (millions)	7.8
GDP per capita, PPP\$	43,508.6
GDP (US\$ billions)	665.9

	Score (0–100) or value (hard data)	Rank
Global Innovation Index 2012 (out of 141).....	68.2	1 ●
Innovation Output Sub-Index	68.5	1 ●
Innovation Input Sub-Index	68.0	4
Innovation Efficiency Index	1.0	5
Global Innovation Index 2011 (out of 125)		1
GII 2012 rank among GII 2011 economies (125)		1

1	Institutions.....	88.0	13
1.1	Political environment	94.4	5
1.1.1	Political stability*.....	94.5	5
1.1.2	Government effectiveness*.....	91.2	5
1.1.3	Press freedom*.....	97.4	8
1.2	Regulatory environment.....	95.0	12
1.2.1	Regulatory quality*.....	93.7	13
1.2.2	Rule of law*.....	94.9	10
1.2.3	Cost of redundancy dismissal, salary weeks.....	10.1	37
1.3	Business environment	74.6	24
1.3.1	Ease of starting a business*.....	56.8	61 ○
1.3.2	Ease of resolving insolvency*.....	74.1	37
1.3.3	Ease of paying taxes*.....	92.8	11
2	Human capital & research.....	57.9	10
2.1	Education.....	58.1	47
2.1.1	Current expenditure on education, % GNI	4.8	45
2.1.2	Public expenditure/pupil, % GDP/cap.....	27.4	15
2.1.3	School life expectancy, years.....	15.5	26
2.1.4	PISA scales in reading, maths, & science.....	517.0	11
2.1.5	Pupil-teacher ratio, secondary	n/a	n/a
2.2	Tertiary education	47.9	27
2.2.1	Tertiary enrolment, % gross.....	51.5	45
2.2.2	Graduates in science & engineering, %	21.6	43 ○
2.2.3	Tertiary inbound mobility, %.....	14.9	12
2.2.4	Gross tertiary outbound enrolment, %	2.4	36
2.3	Research & development (R&D).....	67.7	8
2.3.1	Researchers, headcounts/mn pop.	6,057.4	10
2.3.2	Gross expenditure on R&D, % GDP.....	3.0	7
2.3.3	Quality of scientific research institutions†.....	87.8	2 ●
3	Infrastructure.....	60.8	8
3.1	Information & communication technologies (ICT).....	63.1	21
3.1.1	ICT access*.....	87.0	4
3.1.2	ICT use*.....	63.7	13
3.1.3	Government's online service*.....	67.3	32
3.1.4	E-participation*.....	34.2	44
3.2	General infrastructure	53.2	18
3.2.1	Electricity output, kWh/cap.....	8,544.9	19
3.2.2	Electricity consumption, kWh/cap.....	8,327.8	17
3.2.3	Quality of trade & transport infrastructure*.....	79.3	6
3.2.4	Gross capital formation, % GDP.....	19.2	101 ○
3.3	Ecological sustainability	66.2	3
3.3.1	GDP/unit of energy use, 2000 PPP\$/kg oil eq.....	10.2	12
3.3.2	Environmental performance*.....	76.7	1 ●
3.3.3	ISO 14001 environmental certificates/bn PPP\$ GDP.....	7.9	12
4	Market sophistication	69.8	5
4.1	Credit	69.0	8
4.1.1	Ease of getting credit*.....	77.4	21
4.1.2	Domestic credit to private sector, % GDP.....	174.6	11
4.1.3	Microfinance gross loans, % GDP.....	n/a	n/a

4.2	Investment.....	67.8	8
4.2.1	Ease of protecting investors*.....	3.5	131 ○
4.2.2	Market capitalization, % GDP.....	234.7	3
4.2.3	Total value of stocks traded, % GDP.....	166.0	1 ●
4.2.4	Venture capital deals/tr PPP\$ GDP.....	120.3	11
4.3	Trade & competition	72.5	17
4.3.1	Applied tariff rate, weighted mean, %.....	0.0	1 ●
4.3.2	Non-agricultural mkt access weighted tariff, %.....	1.4	84 ○
4.3.3	Imports of goods & services, % GDP.....	42.2	66 ○
4.3.4	Exports of goods & services, % GDP.....	53.6	37
4.3.5	Intensity of local competition†.....	74.3	22
5	Business sophistication	63.5	6
5.1	Knowledge workers.....	85.8	2 ●
5.1.1	Knowledge-intensive employment, %.....	47.1	3
5.1.2	Firms offering formal training, % firms.....	n/a	n/a
5.1.3	R&D performed by business, %.....	73.5	6
5.1.4	R&D financed by business, %	68.2	7
5.1.5	GMAT mean score.....	561.0	28
5.1.6	GMAT test takers/mn pop. 20–34.....	400.4	12
5.2	Innovation linkages	54.5	12
5.2.1	University/industry research collaboration†.....	79.6	1 ●
5.2.2	State of cluster development†.....	61.9	14
5.2.3	R&D financed by abroad, %.....	6.0	56 ○
5.2.4	JV–strategic alliance deals/tr PPP\$ GDP.....	84.7	13
5.2.5	PCT patent filings with foreign inventor, %.....	79.2	40
5.3	Knowledge absorption	50.3	17
5.3.1	Royalty & license fees payments/th GDP.....	n/a	n/a
5.3.2	High-tech imports less re-imports, %	15.8	17
5.3.3	Computer & comm. service imports, %.....	43.5	30
5.3.4	FDI net inflows, % GDP.....	-1.2	137 ○
6	Knowledge & technology outputs	72.0	1 ●
6.1	Knowledge creation.....	99.7	1 ●
6.1.1	Domestic resident patent ap/bn PPP\$ GDP.....	25.6	1 ●
6.1.2	PCT resident patent ap/bn PPP\$ GDP.....	11.7	1 ●
6.1.3	Domestic res utility model ap/bn PPP\$ GDP.....	n/a	n/a
6.1.4	Scientific & technical articles/bn PPP\$ GDP.....	30.1	2 ●
6.2	Knowledge impact	57.2	7
6.2.1	Growth rate of PPP\$ GDP/worker, %.....	2.1	71 ○
6.2.2	New businesses/th pop. 15–64.....	4.9	17
6.2.3	Computer software spending, % GDP.....	1.2	2
6.2.4	ISO 9001 quality certificates/bn PPP\$ GDP.....	37.1	10
6.3	Knowledge diffusion	59.0	11
6.3.1	Royalty & license fees receipts/th GDP.....	n/a	n/a
6.3.2	High-tech exports less re-exports, %.....	22.5	7
6.3.3	Computer & comm. service exports, %	44.2	31
6.3.4	FDI net outflows, % GDP.....	7.4	7
7	Creative outputs	65.0	1 ●
7.1	Creative intangibles.....	67.9	7
7.1.1	Domestic res trademark reg/bn PPP\$ GDP.....	95.2	12
7.1.2	Madrid resident trademark reg/bn PPP\$ GDP.....	9.5	1 ●
7.1.3	ICT & business model creation†.....	69.4	16
7.1.4	ICT & organizational model creation†.....	57.1	34
7.2	Creative goods & services	51.6	7
7.2.1	Recreation & culture consumption, %.....	7.7	27
7.2.2	National feature films/mn pop. 15–69.....	19.0	1 ●
7.2.3	Paid-for dailies, circulation/th pop. 15–69.....	383.5	7
7.2.4	Creative goods exports, %.....	4.9	12
7.2.5	Creative services exports, %.....	0.0	112 ○
7.3	Online creativity.....	72.8	8
7.3.1	Generic top-level domains (TLDs)/th pop. 15–69.....	100.0	1 ●
7.3.2	Country-code TLDs/th pop. 15–69.....	79.6	4
7.3.3	Wikipedia monthly edits/mn pop. 15–69.....	8,060.6	17
7.3.4	Video uploads on YouTube/pop. 15–69.....	70.5	23

Key indicators

Population (millions)	21.2
GDP per capita, PPP\$	5,078.8
GDP (US\$ billions)	64.7

	Score (0–100) or value (hard data)	Rank
Global Innovation Index 2012 (out of 141).....	23.1	132
Innovation Output Sub-Index	17.6	130
Innovation Input Sub-Index	28.6	123
Innovation Efficiency Index	0.6	115
Global Innovation Index 2011 (out of 125) .....	.....	115
GII 2012 rank among GII 2011 economies (125) .....	.....	120

1	Institutions.....	41.0	111
1.1	Political environment	24.1	136 ○
1.1.1	Political stability*.....	45.6	109
1.1.2	Government effectiveness*.....	26.5	101
1.1.3	Press freedom*.....	0.0	140 ○
1.2	Regulatory environment.....	64.7	76 ●
1.2.1	Regulatory quality*.....	28.0	129
1.2.2	Rule of law*.....	33.4	96
1.2.3	Cost of redundancy dismissal, salary weeks.....	8.7	23 ●
1.3	Business environment	34.3	100
1.3.1	Ease of starting a business*.....	22.3	109
1.3.2	Ease of resolving insolvency*.....	35.2	91
1.3.3	Ease of paying taxes*.....	45.3	77
2	Human capital & research.....	27.0	105
2.1	Education.....	47.4	84
2.1.1	Current expenditure on education, % GNI	2.6	117
2.1.2	Public expenditure/pupil, % GDP/cap.....	18.6	73
2.1.3	School life expectancy, years.....	11.3	101
2.1.4	PISA scales in reading, maths, & science.....	n/a	n/a
2.1.5	Pupil-teacher ratio, secondary	7.2	5 ●
2.2	Tertiary education	6.6	132
2.2.1	Tertiary enrolment, % gross.....	n/a	n/a
2.2.2	Graduates in science & engineering, %	n/a	n/a
2.2.3	Tertiary inbound mobility, %.....	n/a	n/a
2.2.4	Gross tertiary outbound enrolment, %	0.7	87
2.3	Research & development (R&D).....	27.0	51 ●
2.3.1	Researchers, headcounts/mn pop.	n/a	n/a
2.3.2	Gross expenditure on R&D, % GDP.....	n/a	n/a
2.3.3	Quality of scientific research institutions†.....	27.0	119
3	Infrastructure.....	22.3	117
3.1	Information & communication technologies (ICT)	18.2	109
3.1.1	ICT access*.....	39.6	75 ●
3.1.2	ICT use*	7.5	98
3.1.3	Government's online service*.....	22.9	128
3.1.4	E-participation*.....	2.6	115
3.2	General infrastructure	27.7	115
3.2.1	Electricity output, kWh/cap.....	2,083.4	73
3.2.2	Electricity consumption, kWh/cap.....	1,484.7	82
3.2.3	Quality of trade & transport infrastructure*.....	36.3	75
3.2.4	Gross capital formation, % GDP.....	18.8	104
3.3	Ecological sustainability	20.9	109
3.3.1	GDP/unit of energy use, 2000 PPP\$/kg oil eq.....	3.5	96
3.3.2	Environmental performance*.....	42.8	108
3.3.3	ISO 14001 environmental certificates/bn PPP\$ GDP	0.4	84
4	Market sophistication	27.6	120
4.1	Credit	2.5	139 ○
4.1.1	Ease of getting credit*	1.4	137 ○
4.1.2	Domestic credit to private sector, % GDP.....	22.5	113
4.1.3	Microfinance gross loans, % GDP.....	0.0	74

4.2	Investment.....	14.7	98
4.2.1	Ease of protecting investors*.....	29.4	91
4.2.2	Market capitalization, % GDP.....	n/a	n/a
4.2.3	Total value of stocks traded, % GDP.....	n/a	n/a
4.2.4	Venture capital deals/tr PPP\$ GDP.....	0.0	65 ○
4.3	Trade & competition	65.5	61 ●
4.3.1	Applied tariff rate, weighted mean, %.....	6.1	93
4.3.2	Non-agricultural mkt access weighted tariff, %.....	0.0	12 ●
4.3.3	Imports of goods & services, % GDP.....	35.8	87
4.3.4	Exports of goods & services, % GDP.....	35.3	77 ●
4.3.5	Intensity of local competition†	69.5	42 ●
5	Business sophistication	25.4	134 ○
5.1	Knowledge workers.....	36.7	100
5.1.1	Knowledge-intensive employment, %.....	15.5	86
5.1.2	Firms offering formal training, % firms.....	38.3	45 ●
5.1.3	R&D performed by business, %.....	n/a	n/a
5.1.4	R&D financed by business, %	n/a	n/a
5.1.5	GMAT mean score.....	457.3	103
5.1.6	GMAT test takers/mn pop. 20–34.....	18.8	113
5.2	Innovation linkages	23.0	129
5.2.1	University/industry research collaboration†	23.4	126 ○
5.2.2	State of cluster development†	34.1	100
5.2.3	R&D financed by abroad, %.....	n/a	n/a
5.2.4	JV–strategic alliance deals/tr PPP\$ GDP	0.0	114 ○
5.2.5	PCT patent filings with foreign inventor, %.....	n/a	n/a
5.3	Knowledge absorption	16.6	141 ○
5.3.1	Royalty & license fees payments/th GDP.....	0.6	84
5.3.2	High-tech imports less re-imports, %	2.4	121 ○
5.3.3	Computer & comm. service imports, %.....	6.1	130 ○
5.3.4	FDI net inflows, % GDP.....	2.3	70 ●
6	Knowledge & technology outputs	16.1	129
6.1	Knowledge creation.....	15.6	94
6.1.1	Domestic resident patent ap/bn PPP\$ GDP	1.5	61
6.1.2	PCT resident patent ap/bn PPP\$ GDP	0.0	91
6.1.3	Domestic res utility model ap/bn PPP\$ GDP.....	n/a	n/a
6.1.4	Scientific & technical articles/bn PPP\$ GDP.....	0.7	124
6.2	Knowledge impact	30.5	78
6.2.1	Growth rate of PPP\$ GDP/worker, %	2.0	73
6.2.2	New businesses/th pop. 15–64.....	n/a	n/a
6.2.3	Computer software spending, % GDP.....	n/a	n/a
6.2.4	ISO 9001 quality certificates/bn PPP\$ GDP	1.2	109
6.3	Knowledge diffusion	2.3	136 ○
6.3.1	Royalty & license fees receipts/th GDP.....	0.0	84
6.3.2	High-tech exports less re-exports, %.....	0.6	83
6.3.3	Computer & comm. service exports, %	5.7	128 ○
6.3.4	FDI net outflows, % GDP	n/a	n/a
7	Creative outputs	19.1	123
7.1	Creative intangibles.....	23.8	129 ○
7.1.1	Domestic res trademark reg/bn PPP\$ GDP.....	n/a	n/a
7.1.2	Madrid resident trademark reg/bn PPP\$ GDP.....	0.1	56
7.1.3	ICT & business model creation†	28.7	128 ○
7.1.4	ICT & organizational model creation†	41.3	93
7.2	Creative goods & services	12.8	88
7.2.1	Recreation & culture consumption, %.....	n/a	n/a
7.2.2	National feature films/mn pop. 15–69.....	n/a	n/a
7.2.3	Paid-for dailies, circulation/th pop. 15–69.....	31.5	94
7.2.4	Creative goods exports, %.....	1.6	52 ●
7.2.5	Creative services exports, %.....	2.0	61 ●
7.3	Online creativity.....	16.0	92
7.3.1	Generic top-level domains (TLDs)/th pop. 15–69.....	0.6	107
7.3.2	Country-code TLDs/th pop. 15–69.....	0.0	140 ○
7.3.3	Wikipedia monthly edits/mn pop. 15–69.....	n/a	n/a
7.3.4	Video uploads on YouTube/pop. 15–69.....	47.4	84

Tajikistan

Key indicators

Population (millions)	7.8
GDP per capita, PPP\$	2,039.9
GDP (US\$ billions)	6.8

	Score (0–100) or value (hard data)	Rank
Global Innovation Index 2012 (out of 141).....	26.4	108
Innovation Output Sub-Index	22.0	109
Innovation Input Sub-Index	30.8	111
Innovation Efficiency Index	0.7	79
Global Innovation Index 2011 (out of 125)		116
GII 2012 rank among GII 2011 economies (125)		101

1	Institutions.....	39.9	119
1.1	Political environment	38.6	120
1.1.1	Political stability*.....	43.3	116
1.1.2	Government effectiveness*.....	17.2	128
1.1.3	Press freedom*.....	55.4	97
1.2	Regulatory environment.....	52.8	109
1.2.1	Regulatory quality*.....	24.8	132 ○
1.2.2	Rule of law*.....	16.0	132 ○
1.2.3	Cost of redundancy dismissal, salary weeks.....	15.5	70
1.3	Business environment	28.2	113
1.3.1	Ease of starting a business*.....	20.1	112
1.3.2	Ease of resolving insolvency*.....	57.5	60 ●
1.3.3	Ease of paying taxes*.....	7.1	130
2	Human capital & research.....	29.1	96
2.1	Education.....	40.3	107
2.1.1	Current expenditure on education, % GNI	3.2	96
2.1.2	Public expenditure/pupil, % GDP/cap.....	14.0	91
2.1.3	School life expectancy, years.....	11.5	97
2.1.4	PISA scales in reading, maths, & science.....	n/a	n/a
2.1.5	Pupil-teacher ratio, secondary	17.1	82
2.2	Tertiary education	33.8	64 ●
2.2.1	Tertiary enrolment, % gross.....	19.7	87
2.2.2	Graduates in science & engineering, %	26.0	21 ●
2.2.3	Tertiary inbound mobility, %.....	2.1	55
2.2.4	Gross tertiary outbound enrolment, %	0.8	81
2.3	Research & development (R&D).....	13.3	115
2.3.1	Researchers, headcounts/mn pop.	253.9	81
2.3.2	Gross expenditure on R&D, % GDP.....	0.1	99
2.3.3	Quality of scientific research institutions†.....	36.5	96
3	Infrastructure.....	22.5	116
3.1	Information & communication technologies (ICT).....	11.6	133 ○
3.1.1	ICT access*.....	19.0	121
3.1.2	ICT use*.....	3.2	119
3.1.3	Government's online service*.....	24.2	127
3.1.4	E-participation*.....	0.0	127 ○
3.2	General infrastructure	27.3	116
3.2.1	Electricity output, kWh/cap.....	2,141.7	71
3.2.2	Electricity consumption, kWh/cap.....	1,937.1	70
3.2.3	Quality of trade & transport infrastructure*.....	25.0	119
3.2.4	Gross capital formation, % GDP.....	22.8	64 ●
3.3	Ecological sustainability	28.7	76
3.3.1	GDP/unit of energy use, 2000 PPP\$/kg oil eq.....	3.8	90
3.3.2	Environmental performance*.....	38.8	115 ○
3.3.3	ISO 14001 environmental certificates/bn PPP\$ GDP.....	n/a	n/a
4	Market sophistication	39.4	65
4.1	Credit	33.1	58 ●
4.1.1	Ease of getting credit*.....	1.4	137 ○
4.1.2	Domestic credit to private sector, % GDP.....	28.9	97
4.1.3	Microfinance gross loans, % GDP.....	7.5	5 ●

4.2	Investment.....	29.1	57 ●
4.2.1	Ease of protecting investors*.....	58.2	48 ●
4.2.2	Market capitalization, % GDP.....	n/a	n/a
4.2.3	Total value of stocks traded, % GDP.....	n/a	n/a
4.2.4	Venture capital deals/tr PPP\$ GDP.....	0.0	65 ○
4.3	Trade & competition	56.0	109
4.3.1	Applied tariff rate, weighted mean, %.....	5.9	87
4.3.2	Non-agricultural mkt access weighted tariff, %.....	1.4	83
4.3.3	Imports of goods & services, % GDP.....	61.1	35 ●
4.3.4	Exports of goods & services, % GDP.....	15.2	131
4.3.5	Intensity of local competition†.....	51.4	112
5	Business sophistication	23.3	137 ○
5.1	Knowledge workers.....	17.3	140 ○
5.1.1	Knowledge-intensive employment, %.....	n/a	n/a
5.1.2	Firms offering formal training, % firms.....	21.1	88
5.1.3	R&D performed by business, %.....	n/a	n/a
5.1.4	R&D financed by business, %	1.1	86 ○
5.1.5	GMAT mean score.....	383.9	135 ○
5.1.6	GMAT test takers/mn pop. 20–34.....	9.2	126
5.2	Innovation linkages	18.7	133 ○
5.2.1	University/industry research collaboration†.....	36.8	96
5.2.2	State of cluster development†.....	27.3	117
5.2.3	R&D financed by abroad, %.....	0.6	86
5.2.4	JV–strategic alliance deals/tr PPP\$ GDP.....	0.0	114 ○
5.2.5	PCT patent filings with foreign inventor, %.....	n/a	n/a
5.3	Knowledge absorption	33.8	75
5.3.1	Royalty & license fees payments/th GDP.....	0.0	116 ○
5.3.2	High-tech imports less re-imports, %	n/a	n/a
5.3.3	Computer & comm. service imports, %.....	38.2	42 ●
5.3.4	FDI net inflows, % GDP.....	0.3	128
6	Knowledge & technology outputs	26.7	68
6.1	Knowledge creation.....	30.5	52 ●
6.1.1	Domestic resident patent ap/bn PPP\$ GDP.....	0.6	74
6.1.2	PCT resident patent ap/bn PPP\$ GDP.....	n/a	n/a
6.1.3	Domestic res utility model ap/bn PPP\$ GDP.....	9.9	5 ●
6.1.4	Scientific & technical articles/bn PPP\$ GDP.....	0.9	117
6.2	Knowledge impact	21.2	114
6.2.1	Growth rate of PPP\$ GDP/worker, %.....	2.7	57
6.2.2	New businesses/th pop. 15–64.....	0.5	83
6.2.3	Computer software spending, % GDP.....	n/a	n/a
6.2.4	ISO 9001 quality certificates/bn PPP\$ GDP.....	0.1	140 ○
6.3	Knowledge diffusion	28.3	61 ●
6.3.1	Royalty & license fees receipts/th GDP.....	0.1	69
6.3.2	High-tech exports less re-exports, %.....	n/a	n/a
6.3.3	Computer & comm. service exports, %	43.8	33 ●
6.3.4	FDI net outflows, % GDP.....	n/a	n/a
7	Creative outputs	17.4	129
7.1	Creative intangibles.....	24.2	127
7.1.1	Domestic res trademark reg/bn PPP\$ GDP.....	13.2	72
7.1.2	Madrid resident trademark reg/bn PPP\$ GDP.....	0.1	51
7.1.3	ICT & business model creation†.....	38.6	117
7.1.4	ICT & organizational model creation†.....	49.5	64
7.2	Creative goods & services	4.4	123
7.2.1	Recreation & culture consumption, %.....	n/a	n/a
7.2.2	National feature films/mn pop. 15–69.....	2.0	51
7.2.3	Paid-for dailies, circulation/th pop. 15–69.....	n/a	n/a
7.2.4	Creative goods exports, %.....	n/a	n/a
7.2.5	Creative services exports, %.....	0.2	94
7.3	Online creativity.....	16.5	89
7.3.1	Generic top-level domains (TLDs)/th pop. 15–69.....	1.4	91
7.3.2	Country-code TLDs/th pop. 15–69.....	23.9	64 ●
7.3.3	Wikipedia monthly edits/mn pop. 15–69.....	n/a	n/a
7.3.4	Video uploads on YouTube/pop. 15–69.....	24.3	115

Key indicators

Population (millions)	42.2
GDP per capita, PPP\$	1,505.7
GDP (US\$ billions)	23.2

	Score (0–100) or value (hard data)	Rank
Global Innovation Index 2012 (out of 141).....	23.9	128
Innovation Output Sub-Index	18.0	129
Innovation Input Sub-Index	29.7	117
Innovation Efficiency Index	0.6	122
Global Innovation Index 2011 (out of 125) .....	.....	104
GII 2012 rank among GII 2011 economies (125) .....	.....	117

1	Institutions.....	52.7	77
1.1	Political environment	60.7	60 ●
1.1.1	Political stability*.....	65.1	68
1.1.2	Government effectiveness*.....	27.8	95
1.1.3	Press freedom*.....	89.2	31 ●
1.2	Regulatory environment.....	67.5	67
1.2.1	Regulatory quality*.....	41.3	102
1.2.2	Rule of law*.....	34.2	93
1.2.3	Cost of redundancy dismissal, salary weeks.....	9.3	31 ●
1.3	Business environment	29.9	109
1.3.1	Ease of starting a business*.....	30.2	98
1.3.2	Ease of resolving insolvency*.....	25.1	105
1.3.3	Ease of paying taxes*.....	34.5	91
2	Human capital & research.....	20.7	122
2.1	Education.....	23.1	136
2.1.1	Current expenditure on education, % GNI	2.4	120
2.1.2	Public expenditure/pupil, % GDP/cap.....	n/a	n/a
2.1.3	School life expectancy, years.....	9.1	122
2.1.4	PISA scales in reading, maths, & science.....	n/a	n/a
2.1.5	Pupil-teacher ratio, secondary	n/a	n/a
2.2	Tertiary education	20.8	101
2.2.1	Tertiary enrolment, % gross.....	2.1	131 ○
2.2.2	Graduates in science & engineering, %	21.1	47 ●
2.2.3	Tertiary inbound mobility, %.....	0.6	83
2.2.4	Gross tertiary outbound enrolment, %	0.1	133
2.3	Research & development (R&D).....	18.2	85
2.3.1	Researchers, headcounts/mn pop.	67.1	106
2.3.2	Gross expenditure on R&D, % GDP.....	0.4	61
2.3.3	Quality of scientific research institutions†.....	44.5	64
3	Infrastructure.....	21.7	119
3.1	Information & communication technologies (ICT).....	16.0	118
3.1.1	ICT access*.....	16.4	131
3.1.2	ICT use*	4.4	112
3.1.3	Government's online service*.....	35.3	104
3.1.4	E-participation*.....	7.9	98
3.2	General infrastructure	29.6	106
3.2.1	Electricity output, kWh/cap.....	114.2	119
3.2.2	Electricity consumption, kWh/cap.....	85.3	123 ○
3.2.3	Quality of trade & transport infrastructure*.....	25.0	119
3.2.4	Gross capital formation, % GDP.....	30.6	19 ●
3.3	Ecological sustainability	19.5	115
3.3.1	GDP/unit of energy use, 2000 PPP\$/kg oil eq.....	1.6	121 ○
3.3.2	Environmental performance*.....	54.3	62
3.3.3	ISO 14001 environmental certificates/bn PPP\$ GDP	0.1	128
4	Market sophistication	21.7	130
4.1	Credit	11.2	119
4.1.1	Ease of getting credit*	27.0	88
4.1.2	Domestic credit to private sector, % GDP.....	16.1	125
4.1.3	Microfinance gross loans, % GDP.....	0.3	56

4.2	Investment.....	9.5	114
4.2.1	Ease of protecting investors*.....	35.9	76
4.2.2	Market capitalization, % GDP.....	5.5	97
4.2.3	Total value of stocks traded, % GDP.....	0.1	98
4.2.4	Venture capital deals/tr PPP\$ GDP.....	0.0	65 ○
4.3	Trade & competition	44.3	132
4.3.1	Applied tariff rate, weighted mean, %.....	8.2	111
4.3.2	Non-agricultural mkt access weighted tariff, %.....	3.6	129
4.3.3	Imports of goods & services, % GDP.....	37.7	79
4.3.4	Exports of goods & services, % GDP.....	24.0	115
4.3.5	Intensity of local competition†	52.7	107
5	Business sophistication	31.7	117
5.1	Knowledge workers.....	20.8	133
5.1.1	Knowledge-intensive employment, %.....	2.6	103 ○
5.1.2	Firms offering formal training, % firms.....	36.5	49 ●
5.1.3	R&D performed by business, %.....	n/a	n/a
5.1.4	R&D financed by business, %	n/a	n/a
5.1.5	GMAT mean score.....	392.6	133
5.1.6	GMAT test takers/mn pop. 20–34.....	7.3	127
5.2	Innovation linkages	51.4	19 ●
5.2.1	University/industry research collaboration†	45.1	59 ●
5.2.2	State of cluster development†	39.9	74
5.2.3	R&D financed by abroad, %.....	38.4	7 ●
5.2.4	JV–strategic alliance deals/tr PPP\$ GDP	56.7	24 ●
5.2.5	PCT patent filings with foreign inventor, %.....	n/a	n/a
5.3	Knowledge absorption	22.9	135
5.3.1	Royalty & license fees payments/th GDP.....	0.0	115 ○
5.3.2	High-tech imports less re-imports, %	8.2	69
5.3.3	Computer & comm. service imports, %.....	14.8	116
5.3.4	FDI net inflows, % GDP.....	1.9	79
6	Knowledge & technology outputs	18.0	118
6.1	Knowledge creation.....	17.6	89
6.1.1	Domestic resident patent ap/bn PPP\$ GDP	n/a	n/a
6.1.2	PCT resident patent ap/bn PPP\$ GDP	0.0	105
6.1.3	Domestic res utility model ap/bn PPP\$ GDP.....	n/a	n/a
6.1.4	Scientific & technical articles/bn PPP\$ GDP.....	2.8	73
6.2	Knowledge impact	29.5	84
6.2.1	Growth rate of PPP\$ GDP/worker, %.....	3.5	41 ●
6.2.2	New businesses/th pop. 15–64.....	n/a	n/a
6.2.3	Computer software spending, % GDP.....	n/a	n/a
6.2.4	ISO 9001 quality certificates/bn PPP\$ GDP	0.1	141 ○
6.3	Knowledge diffusion	6.8	131
6.3.1	Royalty & license fees receipts/th GDP.....	0.0	106 ○
6.3.2	High-tech exports less re-exports, %.....	0.9	73
6.3.3	Computer & comm. service exports, %	15.6	103
6.3.4	FDI net outflows, % GDP	n/a	n/a
7	Creative outputs	18.0	128
7.1	Creative intangibles.....	28.3	118
7.1.1	Domestic res trademark reg/bn PPP\$ GDP.....	0.8	85 ○
7.1.2	Madrid resident trademark reg/bn PPP\$ GDP.....	n/a	n/a
7.1.3	ICT & business model creation†	41.7	111
7.1.4	ICT & organizational model creation†	42.9	86
7.2	Creative goods & services	12.8	89
7.2.1	Recreation & culture consumption, %.....	n/a	n/a
7.2.2	National feature films/mn pop. 15–69.....	n/a	n/a
7.2.3	Paid-for dailies, circulation/th pop. 15–69.....	7.2	117
7.2.4	Creative goods exports, %.....	2.2	39 ●
7.2.5	Creative services exports, %.....	0.1	102
7.3	Online creativity.....	2.8	137
7.3.1	Generic top-level domains (TLDs)/th pop. 15–69.....	0.1	133
7.3.2	Country-code TLDs/th pop. 15–69.....	2.3	112
7.3.3	Wikipedia monthly edits/mn pop. 15–69.....	20.9	118
7.3.4	Video uploads on YouTube/pop. 15–69.....	8.5	137 ○

Thailand

Key indicators

Population (millions)	64.3
GDP per capita, PPP\$	9,693.4
GDP (US\$ billions)	339.4

	Score (0–100) or value (hard data)	Rank
Global Innovation Index 2012 (out of 141).....	36.9	57
Innovation Output Sub-Index	31.8	56
Innovation Input Sub-Index	42.1	59
Innovation Efficiency Index	0.8	61
Global Innovation Index 2011 (out of 125)		48
GII 2012 rank among GII 2011 economies (125)		55

1	Institutions.....	48.6	95
1.1	Political environment	43.6	107 ○
1.1.1	Political stability*.....	35.8	124 ○
1.1.2	Government effectiveness*.....	43.2	62
1.1.3	Press freedom*.....	51.7	111 ○
1.2	Regulatory environment.....	47.1	120 ○
1.2.1	Regulatory quality*.....	56.6	66
1.2.2	Rule of law*.....	42.6	68
1.2.3	Cost of redundancy dismissal, salary weeks.....	36.0	129 ○
1.3	Business environment	55.1	59
1.3.1	Ease of starting a business*.....	44.6	78
1.3.2	Ease of resolving insolvency*.....	70.5	42
1.3.3	Ease of paying taxes*.....	50.3	70
2	Human capital & research.....	27.6	101
2.1	Education.....	43.8	97
2.1.1	Current expenditure on education, % GNI	4.1	73
2.1.2	Public expenditure/pupil, % GDP/cap.....	18.6	72
2.1.3	School life expectancy, years.....	12.2	84
2.1.4	PISA scales in reading, maths, & science.....	421.8	48
2.1.5	Pupil-teacher ratio, secondary	19.9	95 ○
2.2	Tertiary education	20.0	103 ○
2.2.1	Tertiary enrolment, % gross.....	47.7	50
2.2.2	Graduates in science & engineering, %	9.7	96 ○
2.2.3	Tertiary inbound mobility, %.....	0.8	76
2.2.4	Gross tertiary outbound enrolment, %	0.5	99
2.3	Research & development (R&D).....	18.8	84
2.3.1	Researchers, headcounts/mn pop.	575.0	70
2.3.2	Gross expenditure on R&D, % GDP.....	0.2	82
2.3.3	Quality of scientific research institutions†	47.7	56
3	Infrastructure.....	36.9	60
3.1	Information & communication technologies (ICT).....	32.3	75
3.1.1	ICT access*.....	36.2	84
3.1.2	ICT use*.....	10.5	87
3.1.3	Government's online service*.....	51.0	64
3.1.4	E-participation*.....	31.6	47
3.2	General infrastructure	39.4	51
3.2.1	Electricity output, kWh/cap.....	2,335.9	70
3.2.2	Electricity consumption, kWh/cap.....	2,073.3	69
3.2.3	Quality of trade & transport infrastructure*.....	54.0	35
3.2.4	Gross capital formation, % GDP.....	25.9	33
3.3	Ecological sustainability	39.0	45
3.3.1	GDP/unit of energy use, 2000 PPP\$/kg oil eq.....	5.3	69
3.3.2	Environmental performance*.....	60.0	33
3.3.3	ISO 14001 environmental certificates/bn PPP\$ GDP.....	3.7	24 ●
4	Market sophistication	48.9	33
4.1	Credit	30.0	71
4.1.1	Ease of getting credit*.....	50.4	62
4.1.2	Domestic credit to private sector, % GDP.....	116.6	23 ●
4.1.3	Microfinance gross loans, % GDP.....	0.0	91 ○

4.2	Investment.....	47.4	20 ●
4.2.1	Ease of protecting investors*.....	90.6	12 ●
4.2.2	Market capitalization, % GDP.....	87.1	21
4.2.3	Total value of stocks traded, % GDP.....	68.4	14 ●
4.2.4	Venture capital deals/tr PPP\$ GDP.....	3.2	61
4.3	Trade & competition	69.3	31
4.3.1	Applied tariff rate, weighted mean, %.....	4.9	78
4.3.2	Non-agricultural mkt access weighted tariff, %.....	1.5	87
4.3.3	Imports of goods & services, % GDP.....	63.9	31
4.3.4	Exports of goods & services, % GDP.....	71.3	18 ●
4.3.5	Intensity of local competition†	68.6	50
5	Business sophistication	48.6	32
5.1	Knowledge workers.....	55.8	41
5.1.1	Knowledge-intensive employment, %.....	10.8	95 ○
5.1.2	Firms offering formal training, % firms.....	75.3	2 ●
5.1.3	R&D performed by business, %.....	45.0	37
5.1.4	R&D financed by business, %	48.7	24
5.1.5	GMAT mean score.....	503.8	74
5.1.6	GMAT test takers/mn pop. 20–34.....	116.1	45
5.2	Innovation linkages	32.3	87
5.2.1	University/industry research collaboration†	52.6	37
5.2.2	State of cluster development†	54.3	27
5.2.3	R&D financed by abroad, %.....	1.8	74 ○
5.2.4	JV-strategic alliance deals/tr PPP\$ GDP	36.5	40
5.2.5	PCT patent filings with foreign inventor, %.....	18.2	84 ○
5.3	Knowledge absorption	57.9	8 ●
5.3.1	Royalty & license fees payments/th GDP.....	9.7	6 ●
5.3.2	High-tech imports less re-imports, %	17.5	14 ●
5.3.3	Computer & comm. service imports, %.....	37.9	43
5.3.4	FDI net inflows, % GDP.....	2.0	76
6	Knowledge & technology outputs	33.5	50
6.1	Knowledge creation.....	22.0	68
6.1.1	Domestic resident patent ap/bn PPP\$ GDP	2.1	54
6.1.2	PCT resident patent ap/bn PPP\$ GDP.....	0.1	65
6.1.3	Domestic res utility model ap/bn PPP\$ GDP.....	2.2	17
6.1.4	Scientific & technical articles/bn PPP\$ GDP.....	3.8	64
6.2	Knowledge impact	43.2	36
6.2.1	Growth rate of PPP\$ GDP/worker, %.....	5.7	13 ●
6.2.2	New businesses/th pop. 15–64.....	0.6	78 ○
6.2.3	Computer software spending, % GDP.....	0.6	19
6.2.4	ISO 9001 quality certificates/bn PPP\$ GDP	11.5	44
6.3	Knowledge diffusion	35.5	40
6.3.1	Royalty & license fees receipts/th GDP.....	0.5	46
6.3.2	High-tech exports less re-exports, %.....	19.0	12 ●
6.3.3	Computer & comm. service exports, %	27.1	70
6.3.4	FDI net outflows, % GDP	1.7	28
7	Creative outputs	30.0	75
7.1	Creative intangibles.....	35.9	89
7.1.1	Domestic res trademark reg/bn PPP\$ GDP.....	22.5	59
7.1.2	Madrid resident trademark reg/bn PPP\$ GDP.....	n/a	n/a
7.1.3	ICT & business model creation†	53.9	60
7.1.4	ICT & organizational model creation†	43.0	85
7.2	Creative goods & services	30.0	45
7.2.1	Recreation & culture consumption, %.....	5.1	51
7.2.2	National feature films/mn pop. 15–69.....	0.7	71
7.2.3	Paid-for dailies, circulation/th pop. 15–69.....	148.8	36
7.2.4	Creative goods exports, %.....	2.8	28
7.2.5	Creative services exports, %.....	n/a	n/a
7.3	Online creativity.....	18.3	80
7.3.1	Generic top-level domains (TLDs)/th pop. 15–69.....	3.5	71
7.3.2	Country-code TLDs/th pop. 15–69.....	11.5	94
7.3.3	Wikipedia monthly edits/mn pop. 15–69.....	491.7	79
7.3.4	Video uploads on YouTube/pop. 15–69.....	55.7	66

Key indicators

Population (millions)	7.1
GDP per capita, PPP\$	892.8
GDP (US\$ billions)	3.6

	Score (0–100) or value (hard data)	Rank
Global Innovation Index 2012 (out of 141).....	20.5	136
Innovation Output Sub-Index	15.6	136
Innovation Input Sub-Index	25.4	135
Innovation Efficiency Index	0.6	117
Global Innovation Index 2011 (out of 125)	n/a	n/a
GII 2012 rank among GII 2011 economies (125)	n/a	n/a

1	Institutions.....	41.7	108
1.1	Political environment	46.5	94
1.1.1	Political stability*.....	60.8	82
1.1.2	Government effectiveness*.....	4.6	140 ○
1.1.3	Press freedom*.....	74.0	62
1.2	Regulatory environment.....	59.5	95
1.2.1	Regulatory quality*.....	29.0	127
1.2.2	Rule of law*.....	23.3	122
1.2.3	Cost of redundancy dismissal, salary weeks.....	11.6	47 ●
1.3	Business environment	19.1	129
1.3.1	Ease of starting a business*.....	1.4	138 ○
1.3.2	Ease of resolving insolvency*.....	43.1	80
1.3.3	Ease of paying taxes*.....	12.9	122
2	Human capital & research.....	13.9	138 ○
2.1	Education.....	29.7	125
2.1.1	Current expenditure on education, % GNI	4.4	55 ●
2.1.2	Public expenditure/pupil, % GDP/cap.....	14.1	90
2.1.3	School life expectancy, years.....	10.6	111
2.1.4	PISA scales in reading, maths, & science.....	n/a	n/a
2.1.5	Pupil-teacher ratio, secondary	35.5	128 ○
2.2	Tertiary education	10.9	122
2.2.1	Tertiary enrolment, % gross.....	5.9	117
2.2.2	Graduates in science & engineering, %	n/a	n/a
2.2.3	Tertiary inbound mobility, %.....	1.4	65
2.2.4	Gross tertiary outbound enrolment, %	0.5	95
2.3	Research & development (R&D).....	1.0	137 ○
2.3.1	Researchers, headcounts/mn pop.	147.5	89
2.3.2	Gross expenditure on R&D, % GDP.....	n/a	n/a
2.3.3	Quality of scientific research institutions†.....	n/a	n/a
3	Infrastructure.....	20.7	125
3.1	Information & communication technologies (ICT).....	10.2	136
3.1.1	ICT access*.....	20.0	118
3.1.2	ICT use*	1.8	128
3.1.3	Government's online service*.....	13.7	139 ○
3.1.4	E-participation*.....	5.3	110
3.2	General infrastructure	19.4	138 ○
3.2.1	Electricity output, kWh/cap.....	18.6	123 ○
3.2.2	Electricity consumption, kWh/cap.....	98.8	120
3.2.3	Quality of trade & transport infrastructure*.....	20.5	131
3.2.4	Gross capital formation, % GDP.....	18.3	111
3.3	Ecological sustainability	32.3	62
3.3.1	GDP/unit of energy use, 2000 PPP\$/kg oil eq.....	3.4	97
3.3.2	Environmental performance*.....	48.7	82
3.3.3	ISO 14001 environmental certificates/bn PPP\$ GDP	n/a	n/a
4	Market sophistication	31.9	101
4.1	Credit	17.1	103
4.1.1	Ease of getting credit*	2.8	126 ○
4.1.2	Domestic credit to private sector, % GDP.....	23.0	110
4.1.3	Microfinance gross loans, % GDP.....	3.5	15 ●

4.2	Investment.....	56.4	13 ●
4.2.1	Ease of protecting investors*.....	12.9	119
4.2.2	Market capitalization, % GDP.....	n/a	n/a
4.2.3	Total value of stocks traded, % GDP.....	n/a	n/a
4.2.4	Venture capital deals/tr PPP\$ GDP.....	313.8	2 ●
4.3	Trade & competition	22.2	141 ○
4.3.1	Applied tariff rate, weighted mean, %.....	14.2	133
4.3.2	Non-agricultural mkt access weighted tariff, %.....	6.8	137 ○
4.3.3	Imports of goods & services, % GDP.....	61.8	34 ●
4.3.4	Exports of goods & services, % GDP.....	41.5	58 ●
4.3.5	Intensity of local competition†	n/a	n/a
5	Business sophistication	19.0	140 ○
5.1	Knowledge workers.....	33.6	110
5.1.1	Knowledge-intensive employment, %.....	n/a	n/a
5.1.2	Firms offering formal training, % firms.....	31.0	62
5.1.3	R&D performed by business, %.....	n/a	n/a
5.1.4	R&D financed by business, %	n/a	n/a
5.1.5	GMAT mean score.....	424.0	116
5.1.6	GMAT test takers/mn pop. 20–34.....	17.7	115
5.2	Innovation linkages	0.0	140 ○
5.2.1	University/industry research collaboration†	n/a	n/a
5.2.2	State of cluster development†	n/a	n/a
5.2.3	R&D financed by abroad, %.....	n/a	n/a
5.2.4	JV–strategic alliance deals/tr PPP\$ GDP	0.0	114 ○
5.2.5	PCT patent filings with foreign inventor, %.....	n/a	n/a
5.3	Knowledge absorption	23.5	133
5.3.1	Royalty & license fees payments/th GDP.....	1.5	58
5.3.2	High-tech imports less re-imports, %	5.2	99
5.3.3	Computer & comm. service imports, %.....	15.9	112
5.3.4	FDI net inflows, % GDP.....	1.3	103
6	Knowledge & technology outputs	18.6	112
6.1	Knowledge creation.....	23.8	64
6.1.1	Domestic resident patent ap/bn PPP\$ GDP	0.4	84
6.1.2	PCT resident patent ap/bn PPP\$ GDP	0.5	38 ●
6.1.3	Domestic res utility model ap/bn PPP\$ GDP.....	n/a	n/a
6.1.4	Scientific & technical articles/bn PPP\$ GDP.....	1.2	108
6.2	Knowledge impact	7.7	136
6.2.1	Growth rate of PPP\$ GDP/worker, %	n/a	n/a
6.2.2	New businesses/th pop. 15–64.....	0.0	98 ○
6.2.3	Computer software spending, % GDP.....	n/a	n/a
6.2.4	ISO 9001 quality certificates/bn PPP\$ GDP	1.0	114
6.3	Knowledge diffusion	24.2	78
6.3.1	Royalty & license fees receipts/th GDP.....	0.0	98
6.3.2	High-tech exports less re-exports, %.....	0.2	106
6.3.3	Computer & comm. service exports, %	34.8	50 ●
6.3.4	FDI net outflows, % GDP	1.2	35 ●
7	Creative outputs	12.6	134
7.1	Creative intangibles.....	n/a	n/a
7.1.1	Domestic res trademark reg/bn PPP\$ GDP.....	n/a	n/a
7.1.2	Madrid resident trademark reg/bn PPP\$ GDP.....	n/a	n/a
7.1.3	ICT & business model creation†	n/a	n/a
7.1.4	ICT & organizational model creation†	n/a	n/a
7.2	Creative goods & services	8.9	107
7.2.1	Recreation & culture consumption, %	n/a	n/a
7.2.2	National feature films/mn pop. 15–69.....	n/a	n/a
7.2.3	Paid-for dailies, circulation/th pop. 15–69.....	1.5	135 ○
7.2.4	Creative goods exports, %.....	1.6	54 ●
7.2.5	Creative services exports, %.....	0.0	107
7.3	Online creativity.....	16.4	90
7.3.1	Generic top-level domains (TLDs)/th pop. 15–69.....	0.0	136
7.3.2	Country-code TLDs/th pop. 15–69.....	n/a	n/a
7.3.3	Wikipedia monthly edits/mn pop. 15–69.....	n/a	n/a
7.3.4	Video uploads on YouTube/pop. 15–69.....	32.7	106

Trinidad and Tobago

Key indicators

Population (millions)	1.3
GDP per capita, PPP\$	20,301.4
GDP (US\$ billions)	22.1

	Score (0–100) or value (hard data)	Rank
Global Innovation Index 2012 (out of 141).....	32.5	81
Innovation Output Sub-Index	26.0	84
Innovation Input Sub-Index	39.0	74
Innovation Efficiency Index	0.7	97
Global Innovation Index 2011 (out of 125)	72	
GII 2012 rank among GII 2011 economies (125)	77	

1	Institutions.....	56.8	66
1.1	Political environment	65.1	48
1.1.1	Political stability*.....	64.5	72
1.1.2	Government effectiveness*.....	47.7	53
1.1.3	Press freedom*.....	83.1	44
1.2	Regulatory environment.....	64.1	79
1.2.1	Regulatory quality*.....	64.2	50
1.2.2	Rule of law*.....	41.8	71
1.2.3	Cost of redundancy dismissal, salary weeks	20.5	89
1.3	Business environment	41.2	93
1.3.1	Ease of starting a business*.....	61.1	55
1.3.2	Ease of resolving insolvency*.....	13.6	121
1.3.3	Ease of paying taxes*.....	48.9	72
2	Human capital & research.....	37.1	63
2.1	Education.....	48.3	81
2.1.1	Current expenditure on education, % GNI	4.0	76
2.1.2	Public expenditure/pupil, % GDP/cap.....	18.9	69
2.1.3	School life expectancy, years.....	12.3	80
2.1.4	PISA scales in reading, maths, & science	413.6	51
2.1.5	Pupil-teacher ratio, secondary	12.3	48
2.2	Tertiary education	48.5	25 ●
2.2.1	Tertiary enrolment, % gross.....	11.5	100
2.2.2	Graduates in science & engineering, %	30.4	9 ●
2.2.3	Tertiary inbound mobility, %.....	5.8	26 ●
2.2.4	Gross tertiary outbound enrolment, %	4.4	15 ●
2.3	Research & development (R&D).....	14.6	107
2.3.1	Researchers, headcounts/mn pop.	556.7	71
2.3.2	Gross expenditure on R&D, % GDP.....	0.0	108 ○
2.3.3	Quality of scientific research institutions†	39.2	81
3	Infrastructure.....	24.8	104
3.1	Information & communication technologies (ICT).....	32.9	71
3.1.1	ICT access*.....	53.2	52
3.1.2	ICT use*.....	22.2	58
3.1.3	Government's online service*.....	48.4	73
3.1.4	E-participation*.....	7.9	98
3.2	General infrastructure	25.4	123 ○
3.2.1	Electricity output, kWh/cap.....	5,904.6	37 ●
3.2.2	Electricity consumption, kWh/cap.....	5,650.5	37 ●
3.2.3	Quality of trade & transport infrastructure*	n/a	n/a
3.2.4	Gross capital formation, % GDP.....	11.4	138 ○
3.3	Ecological sustainability	16.2	119
3.3.1	GDP/unit of energy use, 2000 PPP\$/kg oil eq.....	1.0	124 ○
3.3.2	Environmental performance*.....	47.0	91
3.3.3	ISO 14001 environmental certificates/bn PPP\$ GDP	0.2	102
4	Market sophistication	39.0	67
4.1	Credit	27.8	77
4.1.1	Ease of getting credit*.....	71.6	35
4.1.2	Domestic credit to private sector, % GDP	39.2	83
4.1.3	Microfinance gross loans, % GDP	0.0	78

4.2	Investment.....	25.9	66
4.2.1	Ease of protecting investors*.....	82.0	20 ●
4.2.2	Market capitalization, % GDP.....	59.6	38
4.2.3	Total value of stocks traded, % GDP	0.7	79
4.2.4	Venture capital deals/tr PPP\$ GDP.....	0.0	65 ○
4.3	Trade & competition	63.3	72
4.3.1	Applied tariff rate, weighted mean, %.....	10.0	123 ○
4.3.2	Non-agricultural mkt access weighted tariff, %.....	0.1	25 ●
4.3.3	Imports of goods & services, % GDP	37.6	80
4.3.4	Exports of goods & services, % GDP	65.3	21 ●
4.3.5	Intensity of local competition†	64.4	66
5	Business sophistication	37.1	79
5.1	Knowledge workers.....	43.9	70
5.1.1	Knowledge-intensive employment, %.....	22.8	57
5.1.2	Firms offering formal training, % firms.....	n/a	n/a
5.1.3	R&D performed by business, %.....	1.9	85 ○
5.1.4	R&D financed by business, %	n/a	n/a
5.1.5	GMAT mean score.....	481.0	87
5.1.6	GMAT test takers/mn pop. 20–34.....	431.7	11 ●
5.2	Innovation linkages	34.2	74
5.2.1	University/industry research collaboration†	42.8	65
5.2.2	State of cluster development†	38.3	82
5.2.3	R&D financed by abroad, %.....	n/a	n/a
5.2.4	JV–strategic alliance deals/tr PPP\$ GDP	14.9	75
5.2.5	PCT patent filings with foreign inventor, %.....	n/a	n/a
5.3	Knowledge absorption	33.2	76
5.3.1	Royalty & license fees payments/th GDP.....	n/a	n/a
5.3.2	High-tech imports less re-imports, %	7.2	82
5.3.3	Computer & comm. service imports, %.....	22.4	93
5.3.4	FDI net inflows, % GDP.....	2.7	65
6	Knowledge & technology outputs	21.5	98
6.1	Knowledge creation.....	10.7	109
6.1.1	Domestic resident patent ap/bn PPP\$ GDP	0.0	109 ○
6.1.2	PCT resident patent ap/bn PPP\$ GDP	0.0	96 ○
6.1.3	Domestic res utility model ap/bn PPP\$ GDP	0.1	58 ○
6.1.4	Scientific & technical articles/bn PPP\$ GDP.....	1.8	84
6.2	Knowledge impact	32.4	71
6.2.1	Growth rate of PPP\$ GDP/worker, %.....	1.4	87
6.2.2	New businesses/th pop. 15–64.....	n/a	n/a
6.2.3	Computer software spending, % GDP.....	n/a	n/a
6.2.4	ISO 9001 quality certificates/bn PPP\$ GDP	2.6	87
6.3	Knowledge diffusion	21.5	96
6.3.1	Royalty & license fees receipts/th GDP.....	n/a	n/a
6.3.2	High-tech exports less re-exports, %.....	0.0	116 ○
6.3.3	Computer & comm. service exports, %	9.0	121 ○
6.3.4	FDI net outflows, % GDP	2.6	20 ●
7	Creative outputs	30.4	74
7.1	Creative intangibles.....	45.5	46
7.1.1	Domestic res trademark reg/bn PPP\$ GDP.....	n/a	n/a
7.1.2	Madrid resident trademark reg/bn PPP\$ GDP.....	n/a	n/a
7.1.3	ICT & business model creation†	47.7	81
7.1.4	ICT & organizational model creation†	43.3	83
7.2	Creative goods & services	9.4	103
7.2.1	Recreation & culture consumption, %.....	n/a	n/a
7.2.2	National feature films/mn pop. 15–69.....	n/a	n/a
7.2.3	Paid-for dailies, circulation/th pop. 15–69.....	139.7	41
7.2.4	Creative goods exports, %.....	0.2	107
7.2.5	Creative services exports, %.....	n/a	n/a
7.3	Online creativity.....	21.3	71
7.3.1	Generic top-level domains (TLDs)/th pop. 15–69.....	2.9	75
7.3.2	Country-code TLDs/th pop. 15–69.....	17.0	80
7.3.3	Wikipedia monthly edits/mn pop. 15–69.....	827.2	70
7.3.4	Video uploads on YouTube/pop. 15–69.....	61.3	55

Key indicators

Population (millions)	10.7
GDP per capita, PPP\$	9,557.5
GDP (US\$ billions)	48.9

	Score (0–100) or value (hard data)	Rank
Global Innovation Index 2012 (out of 141).....	36.5	59
Innovation Output Sub-Index	31.6	58
Innovation Input Sub-Index	41.5	64
Innovation Efficiency Index	0.8	59
Global Innovation Index 2011 (out of 125)	66	66
GII 2012 rank among GII 2011 economies (125)	57	57

1	Institutions.....	66.3	49
1.1	Political environment	55.4	72
1.1.1	Political stability*.....	67.7	58
1.1.2	Government effectiveness*.....	46.1	54
1.1.3	Press freedom*.....	52.5	108 ○
1.2	Regulatory environment.....	71.5	47
1.2.1	Regulatory quality*.....	51.4	73
1.2.2	Rule of law*.....	50.7	54
1.2.3	Cost of redundancy dismissal, salary weeks.....	12.1	51
1.3	Business environment	72.1	28 ●
1.3.1	Ease of starting a business*.....	72.6	38
1.3.2	Ease of resolving insolvency*.....	76.9	33 ●
1.3.3	Ease of paying taxes*.....	66.9	47
2	Human capital & research.....	38.0	60
2.1	Education.....	59.0	40
2.1.1	Current expenditure on education, % GNI	6.7	13 ●
2.1.2	Public expenditure/pupil, % GDP/cap.....	23.8	35
2.1.3	School life expectancy, years.....	14.5	44
2.1.4	PISA scales in reading, maths, & science.....	391.9	61 ○
2.1.5	Pupil-teacher ratio, secondary	13.9	62
2.2	Tertiary education	21.8	97
2.2.1	Tertiary enrolment, % gross.....	34.4	68
2.2.2	Graduates in science & engineering, %	n/a	n/a
2.2.3	Tertiary inbound mobility, %.....	0.7	82 ○
2.2.4	Gross tertiary outbound enrolment, %	1.8	51
2.3	Research & development (R&D).....	33.3	38
2.3.1	Researchers, headcounts/mn pop.	3,239.8	31 ●
2.3.2	Gross expenditure on R&D, % GDP.....	1.1	33
2.3.3	Quality of scientific research institutions†.....	50.3	49
3	Infrastructure.....	34.9	64
3.1	Information & communication technologies (ICT).....	33.9	67
3.1.1	ICT access*.....	36.0	87
3.1.2	ICT use*	15.2	77
3.1.3	Government's online service*.....	47.7	75
3.1.4	E-participation*.....	36.8	41
3.2	General infrastructure	33.4	88
3.2.1	Electricity output, kWh/cap.....	1,503.9	85
3.2.2	Electricity consumption, kWh/cap.....	1,312.1	86
3.2.3	Quality of trade & transport infrastructure*.....	39.0	65
3.2.4	Gross capital formation, % GDP.....	26.4	30 ●
3.3	Ecological sustainability	37.4	51
3.3.1	GDP/unit of energy use, 2000 PPP\$/kg oil eq.....	9.8	13 ●
3.3.2	Environmental performance*.....	46.7	94 ○
3.3.3	ISO 14001 environmental certificates/bn PPP\$ GDP	0.9	64
4	Market sophistication	30.9	105
4.1	Credit	17.0	104
4.1.1	Ease of getting credit*	27.0	88
4.1.2	Domestic credit to private sector, % GDP.....	68.8	50
4.1.3	Microfinance gross loans, % GDP.....	0.1	66

4.2	Investment.....	19.5	83
4.2.1	Ease of protecting investors*.....	66.9	35
4.2.2	Market capitalization, % GDP.....	24.1	69
4.2.3	Total value of stocks traded, % GDP.....	3.8	58
4.2.4	Venture capital deals/tr PPP\$ GDP.....	0.0	65 ○
4.3	Trade & competition	56.4	107 ○
4.3.1	Applied tariff rate, weighted mean, %.....	16.0	139 ○
4.3.2	Non-agricultural mkt access weighted tariff, %.....	0.2	31 ●
4.3.3	Imports of goods & services, % GDP.....	54.0	43
4.3.4	Exports of goods & services, % GDP.....	48.7	47
4.3.5	Intensity of local competition†	70.5	40
5	Business sophistication	37.0	82
5.1	Knowledge workers.....	41.8	80
5.1.1	Knowledge-intensive employment, %.....	n/a	n/a
5.1.2	Firms offering formal training, % firms.....	n/a	n/a
5.1.3	R&D performed by business, %.....	20.0	65
5.1.4	R&D financed by business, %	20.0	62
5.1.5	GMAT mean score.....	544.6	43
5.1.6	GMAT test takers/mn pop. 20–34.....	24.8	109 ○
5.2	Innovation linkages	42.0	46
5.2.1	University/industry research collaboration†	45.8	55
5.2.2	State of cluster development†	40.3	70
5.2.3	R&D financed by abroad, %.....	14.9	20 ●
5.2.4	JV–strategic alliance deals/tr PPP\$ GDP	5.3	103
5.2.5	PCT patent filings with foreign inventor, %.....	100.0	1 ●
5.3	Knowledge absorption	27.3	109 ○
5.3.1	Royalty & license fees payments/th GDP.....	0.3	96 ○
5.3.2	High-tech imports less re-imports, %	9.0	58
5.3.3	Computer & comm. service imports, %.....	22.6	90
5.3.4	FDI net inflows, % GDP.....	3.2	55
6	Knowledge & technology outputs	26.7	69
6.1	Knowledge creation.....	27.8	58
6.1.1	Domestic resident patent ap/bn PPP\$ GDP	0.8	71
6.1.2	PCT resident patent ap/bn PPP\$ GDP	0.1	77
6.1.3	Domestic res utility model ap/bn PPP\$ GDP.....	n/a	n/a
6.1.4	Scientific & technical articles/bn PPP\$ GDP.....	10.7	34 ●
6.2	Knowledge impact	28.5	89
6.2.1	Growth rate of PPP\$ GDP/worker, %.....	2.1	70
6.2.2	New businesses/th pop. 15–64.....	1.2	56
6.2.3	Computer software spending, % GDP.....	0.2	41
6.2.4	ISO 9001 quality certificates/bn PPP\$ GDP	5.8	64
6.3	Knowledge diffusion	23.8	82
6.3.1	Royalty & license fees receipts/th GDP.....	0.6	40
6.3.2	High-tech exports less re-exports, %.....	6.1	36
6.3.3	Computer & comm. service exports, %	18.5	94
6.3.4	FDI net outflows, % GDP	0.1	77
7	Creative outputs	36.4	46
7.1	Creative intangibles.....	60.0	11 ●
7.1.1	Domestic res trademark reg/bn PPP\$ GDP.....	n/a	n/a
7.1.2	Madrid resident trademark reg/bn PPP\$ GDP.....	n/a	n/a
7.1.3	ICT & business model creation†	59.7	39
7.1.4	ICT & organizational model creation†	60.3	23 ●
7.2	Creative goods & services	12.6	91
7.2.1	Recreation & culture consumption, %.....	3.1	70
7.2.2	National feature films/mn pop. 15–69.....	0.1	97 ○
7.2.3	Paid-for dailies, circulation/th pop. 15–69.....	53.8	81
7.2.4	Creative goods exports, %.....	1.7	51
7.2.5	Creative services exports, %.....	0.3	90 ○
7.3	Online creativity.....	13.1	101
7.3.1	Generic top-level domains (TLDs)/th pop. 15–69.....	1.8	90
7.3.2	Country-code TLDs/th pop. 15–69.....	6.6	103
7.3.3	Wikipedia monthly edits/mn pop. 15–69.....	265.7	92
7.3.4	Video uploads on YouTube/pop. 15–69.....	42.6	94

Turkey

Key indicators

Population (millions)	72.2
GDP per capita, PPP\$	14,615.5
GDP (US\$ billions)	763.1

	Score (0–100) or value (hard data)	Rank
Global Innovation Index 2012 (out of 141).....	34.1	74
Innovation Output Sub-Index	30.7	61
Innovation Input Sub-Index	37.5	81
Innovation Efficiency Index	0.8	40 ●
Global Innovation Index 2011 (out of 125)	65	
GII 2012 rank among GII 2011 economies (125)	72	

1	Institutions.....	50.0	86
1.1	Political environment	45.8	100
1.1.1	Political stability*.....	41.2	118
1.1.2	Government effectiveness*.....	50.2	49
1.1.3	Press freedom*.....	45.9	121 ○
1.2	Regulatory environment.....	56.4	101
1.2.1	Regulatory quality*.....	61.4	57
1.2.2	Rule of law*.....	50.5	55
1.2.3	Cost of redundancy dismissal, salary weeks.....	29.8	124 ○
1.3	Business environment	47.7	72
1.3.1	Ease of starting a business*.....	64.7	50
1.3.2	Ease of resolving insolvency*.....	23.7	107
1.3.3	Ease of paying taxes*.....	54.6	64

2	Human capital & research.....	31.8	82
2.1	Education.....	41.2	103
2.1.1	Current expenditure on education, % GNI	2.6	116
2.1.2	Public expenditure/pupil, % GDP/cap.....	12.2	99 ○
2.1.3	School life expectancy, years.....	12.9	75
2.1.4	PISA scales in reading, maths, & science.....	454.5	41
2.1.5	Pupil-teacher ratio, secondary	16.9	80
2.2	Tertiary education	30.8	75
2.2.1	Tertiary enrolment, % gross.....	45.8	52
2.2.2	Graduates in science & engineering, %	20.9	50
2.2.3	Tertiary inbound mobility, %.....	0.7	79
2.2.4	Gross tertiary outbound enrolment, %	0.7	83
2.3	Research & development (R&D).....	23.3	63
2.3.1	Researchers, headcounts/mn pop.	1,592.8	46
2.3.2	Gross expenditure on R&D, % GDP.....	0.8	38
2.3.3	Quality of scientific research institutions†	38.5	86

3	Infrastructure.....	34.0	67
3.1	Information & communication technologies (ICT).....	31.5	76
3.1.1	ICT access*.....	49.7	57
3.1.2	ICT use*.....	24.6	53
3.1.3	Government's online service*.....	46.4	78
3.1.4	E-participation*.....	5.3	110
3.2	General infrastructure	35.3	77
3.2.1	Electricity output, kWh/cap.....	2,960.5	60
3.2.2	Electricity consumption, kWh/cap.....	2,489.0	63
3.2.3	Quality of trade & transport infrastructure*.....	52.0	37 ●
3.2.4	Gross capital formation, % GDP.....	19.9	93
3.3	Ecological sustainability	35.3	58
3.3.1	GDP/unit of energy use, 2000 PPP\$/kg oil eq.....	8.2	28 ●
3.3.2	Environmental performance*.....	44.8	104 ○
3.3.3	ISO 14001 environmental certificates/bn PPP\$ GDP	1.7	48

4	Market sophistication	39.4	64
4.1	Credit	17.3	100
4.1.1	Ease of getting credit*.....	38.7	72
4.1.2	Domestic credit to private sector, % GDP.....	44.0	77
4.1.3	Microfinance gross loans, % GDP.....	0.0	88 ○

4.2	Investment.....	36.5	39 ●
4.2.1	Ease of protecting investors*.....	58.2	48
4.2.2	Market capitalization, % GDP.....	41.7	51
4.2.3	Total value of stocks traded, % GDP.....	57.3	19 ●
4.2.4	Venture capital deals/tr PPP\$ GDP.....	7.6	50

4.3	Trade & competition	64.5	64
4.3.1	Applied tariff rate, weighted mean, %.....	2.4	48
4.3.2	Non-agricultural mkt access weighted tariff, %.....	1.4	82
4.3.3	Imports of goods & services, % GDP	26.6	120 ○
4.3.4	Exports of goods & services, % GDP	21.1	123 ○
4.3.5	Intensity of local competition†	78.3	12 ●

5	Business sophistication	32.5	107
5.1	Knowledge workers.....	47.0	64
5.1.1	Knowledge-intensive employment, %.....	22.1	60
5.1.2	Firms offering formal training, % firms.....	28.8	67
5.1.3	R&D performed by business, %.....	40.0	46
5.1.4	R&D financed by business, %	41.0	39
5.1.5	GMAT mean score.....	547.4	39 ●
5.1.6	GMAT test takers/mn pop. 20–34.....	94.4	52
5.2	Innovation linkages	22.9	130 ○
5.2.1	University/industry research collaboration†	41.5	71
5.2.2	State of cluster development†	40.1	73
5.2.3	R&D financed by abroad, %.....	1.1	81 ○
5.2.4	JV–strategic alliance deals/tr PPP\$ GDP	24.6	57
5.2.5	PCT patent filings with foreign inventor, %.....	4.5	100 ○
5.3	Knowledge absorption	27.5	108
5.3.1	Royalty & license fees payments/th GDP.....	1.1	69
5.3.2	High-tech imports less re-imports, %	9.9	53
5.3.3	Computer & comm. service imports, %.....	18.5	105
5.3.4	FDI net inflows, % GDP.....	1.3	104

6	Knowledge & technology outputs	27.8	63
6.1	Knowledge creation.....	31.6	47
6.1.1	Domestic resident patent ap/bn PPP\$ GDP	0.3	93 ○
6.1.2	PCT resident patent ap/bn PPP\$ GDP	0.5	37
6.1.3	Domestic res utility model ap/bn PPP\$ GDP.....	3.2	12 ●
6.1.4	Scientific & technical articles/bn PPP\$ GDP.....	9.4	37 ●
6.2	Knowledge impact	30.1	81
6.2.1	Growth rate of PPP\$ GDP/worker, %.....	2.2	67
6.2.2	New businesses/th pop. 15–64.....	0.9	65
6.2.3	Computer software spending, % GDP.....	0.2	46
6.2.4	ISO 9001 quality certificates/bn PPP\$ GDP	11.0	46 ●
6.3	Knowledge diffusion	21.8	92
6.3.1	Royalty & license fees receipts/th GDP.....	n/a	n/a
6.3.2	High-tech exports less re-exports, %.....	1.7	64
6.3.3	Computer & comm. service exports, %	9.0	123 ○
6.3.4	FDI net outflows, % GDP	0.2	70

7	Creative outputs	33.7	64
7.1	Creative intangibles.....	40.4	69
7.1.1	Domestic res trademark reg/bn PPP\$ GDP.....	96.6	10 ●
7.1.2	Madrid resident trademark reg/bn PPP\$ GDP.....	0.8	25
7.1.3	ICT & business model creation†	52.9	63
7.1.4	ICT & organizational model creation†	46.1	75
7.2	Creative goods & services	30.8	41 ●
7.2.1	Recreation & culture consumption, %.....	4.1	61
7.2.2	National feature films/mn pop. 15–69.....	1.3	60
7.2.3	Paid-for dailies, circulation/th pop. 15–69.....	94.6	59
7.2.4	Creative goods exports, %.....	4.6	14 ●
7.2.5	Creative services exports, %.....	5.3	37
7.3	Online creativity.....	23.1	63
7.3.1	Generic top-level domains (TLDs)/th pop. 15–69.....	9.2	49
7.3.2	Country-code TLDs/th pop. 15–69.....	26.2	60
7.3.3	Wikipedia monthly edits/mn pop. 15–69.....	1,024.5	62
7.3.4	Video uploads on YouTube/pop. 15–69.....	51.8	74

Key indicators

Population (millions)	35.2
GDP per capita, PPP\$	1,305.4
GDP (US\$ billions)	16.0

	Score (0–100) or value (hard data)	Rank
Global Innovation Index 2012 (out of 141).....	25.6	117
Innovation Output Sub-Index	21.7	112
Innovation Input Sub-Index	29.4	121
Innovation Efficiency Index	0.7	72
Global Innovation Index 2011 (out of 125)		106
GII 2012 rank among GII 2011 economies (125)		107

1	Institutions.....	52.8	76
1.1	Political environment	38.2	122
1.1.1	Political stability*.....	38.3	119
1.1.2	Government effectiveness*.....	26.4	102
1.1.3	Press freedom*.....	50.0	113
1.2	Regulatory environment.....	70.7	50 ●
1.2.1	Regulatory quality*.....	48.4	81
1.2.2	Rule of law*.....	37.1	81
1.2.3	Cost of redundancy dismissal, salary weeks	8.7	23 ●
1.3	Business environment	49.6	67
1.3.1	Ease of starting a business*.....	20.8	111
1.3.2	Ease of resolving insolvency*.....	64.0	51 ●
1.3.3	Ease of paying taxes*.....	64.0	51 ●
2	Human capital & research.....	20.1	125
2.1	Education.....	35.3	118
2.1.1	Current expenditure on education, % GNI	3.0	109
2.1.2	Public expenditure/pupil, % GDP/cap.....	10.3	106
2.1.3	School life expectancy, years.....	11.1	102
2.1.4	PISA scales in reading, maths, & science	n/a	n/a
2.1.5	Pupil-teacher ratio, secondary	19.2	94
2.2	Tertiary education	9.5	126
2.2.1	Tertiary enrolment, % gross.....	4.2	123
2.2.2	Graduates in science & engineering, %	9.5	98 ○
2.2.3	Tertiary inbound mobility, %.....	n/a	n/a
2.2.4	Gross tertiary outbound enrolment, %	0.1	138 ○
2.3	Research & development (R&D).....	15.6	101
2.3.1	Researchers, headcounts/mn pop.	52.6	112 ○
2.3.2	Gross expenditure on R&D, % GDP.....	0.4	64
2.3.3	Quality of scientific research institutions†	37.3	91
3	Infrastructure.....	18.9	130
3.1	Information & communication technologies (ICT)	14.4	122
3.1.1	ICT access*.....	15.8	134 ○
3.1.2	ICT use*	4.4	111
3.1.3	Government's online service*	29.4	120
3.1.4	E-participation*.....	7.9	98
3.2	General infrastructure	41.4	43 ●
3.2.1	Electricity output, kWh/cap.....	n/a	n/a
3.2.2	Electricity consumption, kWh/cap	n/a	n/a
3.2.3	Quality of trade & transport infrastructure*	33.8	88
3.2.4	Gross capital formation, % GDP.....	23.7	52 ●
3.3	Ecological sustainability	1.0	135 ○
3.3.1	GDP/unit of energy use, 2000 PPP\$/kg oil eq.....	n/a	n/a
3.3.2	Environmental performance*.....	n/a	n/a
3.3.3	ISO 14001 environmental certificates/bn PPP\$ GDP	0.1	116
4	Market sophistication	27.8	119
4.1	Credit	26.3	83
4.1.1	Ease of getting credit*	57.7	43 ●
4.1.2	Domestic credit to private sector, % GDP	15.8	127
4.1.3	Microfinance gross loans, % GDP	1.5	29 ●

4.2	Investment.....	4.0	128
4.2.1	Ease of protecting investors*.....	15.8	110
4.2.2	Market capitalization, % GDP.....	1.2	103 ○
4.2.3	Total value of stocks traded, % GDP	0.1	101 ○
4.2.4	Venture capital deals/tr PPP\$ GDP.....	0.0	65 ○
4.3	Trade & competition	53.0	115
4.3.1	Applied tariff rate, weighted mean, %.....	8.2	109
4.3.2	Non-agricultural mkt access weighted tariff, %.....	1.7	90
4.3.3	Imports of goods & services, % GDP	34.3	93
4.3.4	Exports of goods & services, % GDP	24.0	114
4.3.5	Intensity of local competition†	61.8	74
5	Business sophistication	27.5	128
5.1	Knowledge workers.....	18.9	137 ○
5.1.1	Knowledge-intensive employment, %.....	4.3	102 ○
5.1.2	Firms offering formal training, % firms.....	35.0	52
5.1.3	R&D performed by business, %.....	8.2	77
5.1.4	R&D financed by business, %	8.2	75
5.1.5	GMAT mean score.....	381.2	137 ○
5.1.6	GMAT test takers/mn pop. 20–34.....	12.8	121
5.2	Innovation linkages	37.0	61 ●
5.2.1	University/industry research collaboration†	41.7	69
5.2.2	State of cluster development†	33.6	103
5.2.3	R&D financed by abroad, %.....	26.1	11 ●
5.2.4	JV–strategic alliance deals/tr PPP\$ GDP	4.4	106
5.2.5	PCT patent filings with foreign inventor, %.....	n/a	n/a
5.3	Knowledge absorption	26.7	115
5.3.1	Royalty & license fees payments/th GDP.....	0.3	104
5.3.2	High-tech imports less re-imports, %	10.3	49 ●
5.3.3	Computer & comm. service imports, %.....	15.8	113
5.3.4	FDI net inflows, % GDP	4.8	36 ●
6	Knowledge & technology outputs	16.2	128
6.1	Knowledge creation.....	16.8	90
6.1.1	Domestic resident patent ap/bn PPP\$ GDP	0.2	100
6.1.2	PCT resident patent ap/bn PPP\$ GDP	0.0	93
6.1.3	Domestic res utility model ap/bn PPP\$ GDP.....	n/a	n/a
6.1.4	Scientific & technical articles/bn PPP\$ GDP.....	3.6	65
6.2	Knowledge impact	25.4	101
6.2.1	Growth rate of PPP\$ GDP/worker, %	2.4	60
6.2.2	New businesses/th pop. 15–64.....	0.7	73
6.2.3	Computer software spending, % GDP.....	n/a	n/a
6.2.4	ISO 9001 quality certificates/bn PPP\$ GDP	1.3	108
6.3	Knowledge diffusion	6.4	132 ○
6.3.1	Royalty & license fees receipts/th GDP.....	0.2	56
6.3.2	High-tech exports less re-exports, %.....	0.6	84
6.3.3	Computer & comm. service exports, %	13.6	109
6.3.4	FDI net outflows, % GDP	n/a	n/a
7	Creative outputs	27.1	94
7.1	Creative intangibles.....	50.5	25 ●
7.1.1	Domestic res trademark reg/bn PPP\$ GDP.....	n/a	n/a
7.1.2	Madrid resident trademark reg/bn PPP\$ GDP	n/a	n/a
7.1.3	ICT & business model creation†	46.8	84
7.1.4	ICT & organizational model creation†	54.2	43 ●
7.2	Creative goods & services	2.8	126
7.2.1	Recreation & culture consumption, %	n/a	n/a
7.2.2	National feature films/mn pop. 15–69.....	n/a	n/a
7.2.3	Paid-for dailies, circulation/th pop. 15–69.....	6.2	120
7.2.4	Creative goods exports, %.....	0.3	101
7.2.5	Creative services exports, %.....	n/a	n/a
7.3	Online creativity.....	4.8	131
7.3.1	Generic top-level domains (TLDs)/th pop. 15–69.....	0.2	125
7.3.2	Country-code TLDs/th pop. 15–69.....	2.6	111
7.3.3	Wikipedia monthly edits/mn pop. 15–69.....	14.9	122 ○
7.3.4	Video uploads on YouTube/pop. 15–69	16.5	126

Ukraine

Key indicators

Population (millions)	45.6
GDP per capita, PPP\$	7,198.9
GDP (US\$ billions)	162.9

	Score (0–100) or value (hard data)	Rank
Global Innovation Index 2012 (out of 141).....	36.1	63
Innovation Output Sub-Index	34.2	47
Innovation Input Sub-Index	38.0	78
Innovation Efficiency Index	0.9	14 ●
Global Innovation Index 2011 (out of 125)	60	
GII 2012 rank among GII 2011 economies (125)	61	

1 Institutions.....40.0 117 ○**1.1 Political environment46.7 91**

1.1.1 Political stability*.....	62.8	74
1.1.2 Government effectiveness*.....	20.6	118 ○
1.1.3 Press freedom*.....	56.8	91

1.2 Regulatory environment.....61.1 86

1.2.1 Regulatory quality*.....	37.8	110
1.2.2 Rule of law*.....	26.4	111 ○
1.2.3 Cost of redundancy dismissal, salary weeks.....	13.0	55

1.3 Business environment12.2 137 ○

1.3.1 Ease of starting a business*.....	31.6	95
1.3.2 Ease of resolving insolvency*.....	4.3	134 ○
1.3.3 Ease of paying taxes*.....	0.7	139 ○

2 Human capital & research.....42.2 48**2.1 Education.....56.6 51**

2.1.1 Current expenditure on education, % GNI	5.9	22 ●
2.1.2 Public expenditure/pupil, % GDP/cap.....	26.0	20 ●
2.1.3 School life expectancy, years.....	14.8	36
2.1.4 PISA scales in reading, maths, & science.....	n/a	n/a
2.1.5 Pupil-teacher ratio, secondary.....	n/a	n/a

2.2 Tertiary education44.8 34

2.2.1 Tertiary enrolment, % gross.....	79.5	8 ●
2.2.2 Graduates in science & engineering, %	26.3	19 ●
2.2.3 Tertiary inbound mobility, %.....	1.4	64
2.2.4 Gross tertiary outbound enrolment, %	1.0	72

2.3 Research & development (R&D).....25.1 57

2.3.1 Researchers, headcounts/mn pop.	1,665.7	44
2.3.2 Gross expenditure on R&D, % GDP.....	0.9	37
2.3.3 Quality of scientific research institutions†	43.4	69

3 Infrastructure.....27.1 98**3.1 Information & communication technologies (ICT).....29.9 77**

3.1.1 ICT access*.....	47.9	58
3.1.2 ICT use*.....	13.5	81
3.1.3 Government's online service*.....	42.5	88
3.1.4 E-participation*.....	15.8	78

3.2 General infrastructure30.8 98

3.2.1 Electricity output, kWh/cap.....	3,774.4	52
3.2.2 Electricity consumption, kWh/cap.....	3,203.6	55
3.2.3 Quality of trade & transport infrastructure*.....	36.0	77
3.2.4 Gross capital formation, % GDP.....	19.3	99

3.3 Ecological sustainability20.4 110 ○

3.3.1 GDP/unit of energy use, 2000 PPP\$/kg oil eq.....	2.5	107 ○
3.3.2 Environmental performance*.....	46.3	97 ○
3.3.3 ISO 14001 environmental certificates/bn PPP\$ GDP.....	0.7	69

4 Market sophistication38.7 68**4.1 Credit33.1 59**

4.1.1 Ease of getting credit*.....	77.4	21
4.1.2 Domestic credit to private sector, % GDP.....	61.7	54
4.1.3 Microfinance gross loans, % GDP.....	0.2	61

4.2 Investment.....18.6 88

4.2.1 Ease of protecting investors*.....	29.4	91
4.2.2 Market capitalization, % GDP.....	28.6	63
4.2.3 Total value of stocks traded, % GDP.....	1.5	67
4.2.4 Venture capital deals/tr PPP\$ GDP.....	6.1	54

4.3 Trade & competition64.2 65

4.3.1 Applied tariff rate, weighted mean, %.....	2.8	54
4.3.2 Non-agricultural mkt access weighted tariff, %.....	1.3	79
4.3.3 Imports of goods & services, % GDP.....	53.0	44
4.3.4 Exports of goods & services, % GDP.....	50.2	44
4.3.5 Intensity of local competition†	50.6	116 ○

5 Business sophistication42.3 51**5.1 Knowledge workers.....49.2 55**

5.1.1 Knowledge-intensive employment, %.....	32.1	37
5.1.2 Firms offering formal training, % firms.....	24.8	81
5.1.3 R&D performed by business, %.....	54.8	27
5.1.4 R&D financed by business, %	25.9	57
5.1.5 GMAT mean score.....	543.5	45
5.1.6 GMAT test takers/mn pop. 20–34.....	41.6	90

5.2 Innovation linkages33.1 85

5.2.1 University/industry research collaboration†	42.6	67
5.2.2 State of cluster development†	28.6	115 ○
5.2.3 R&D financed by abroad, %.....	22.3	12 ●
5.2.4 JV–strategic alliance deals/tr PPP\$ GDP	10.9	85
5.2.5 PCT patent filings with foreign inventor, %.....	27.3	68

5.3 Knowledge absorption44.7 33

5.3.1 Royalty & license fees payments/th GDP.....	5.4	13 ●
5.3.2 High-tech imports less re-imports, %	n/a	n/a
5.3.3 Computer & comm. service imports, %.....	25.0	83
5.3.4 FDI net inflows, % GDP.....	4.7	38

6 Knowledge & technology outputs39.2 30 ●**6.1 Knowledge creation.....53.8 21 ●**

6.1.1 Domestic resident patent ap/bn PPP\$ GDP	8.3	25 ●
6.1.2 PCT resident patent ap/bn PPP\$ GDP	0.4	41
6.1.3 Domestic res utility model ap/bn PPP\$ GDP.....	34.4	1 ●
6.1.4 Scientific & technical articles/bn PPP\$ GDP.....	5.6	53

6.2 Knowledge impact33.9 66

6.2.1 Growth rate of PPP\$ GDP/worker, %.....	4.0	34
6.2.2 New businesses/th pop. 15–64.....	0.6	77
6.2.3 Computer software spending, % GDP.....	0.3	31
6.2.4 ISO 9001 quality certificates/bn PPP\$ GDP	8.5	52

6.3 Knowledge diffusion29.9 55

6.3.1 Royalty & license fees receipts/th GDP.....	1.0	32
6.3.2 High-tech exports less re-exports, %.....	n/a	n/a
6.3.3 Computer & comm. service exports, %	23.1	81
6.3.4 FDI net outflows, % GDP.....	0.5	53

7 Creative outputs29.2 83**7.1 Creative intangibles.....33.5 100**

7.1.1 Domestic res trademark reg/bn PPP\$ GDP.....	81.5	18 ●
7.1.2 Madrid resident trademark reg/bn PPP\$ GDP.....	0.8	24
7.1.3 ICT & business model creation†	45.9	87
7.1.4 ICT & organizational model creation†	32.6	116 ○

7.2 Creative goods & services19.7 75

7.2.1 Recreation & culture consumption, %.....	4.1	60
7.2.2 National feature films/mn pop. 15–69.....	0.1	96 ○
7.2.3 Paid-for dailies, circulation/th pop. 15–69.....	84.1	64
7.2.4 Creative goods exports, %.....	1.2	65
7.2.5 Creative services exports, %.....	7.7	23 ●

7.3 Online creativity.....30.0 47

7.3.1 Generic top-level domains (TLDs)/th pop. 15–69.....	6.8	52
7.3.2 Country-code TLDs/th pop. 15–69.....	41.3	45
7.3.3 Wikipedia monthly edits/mn pop. 15–69.....	3,076.4	42
7.3.4 Video uploads on YouTube/pop. 15–69.....	56.2	63

Key indicators

Population (millions)	5.4
GDP per capita, PPP\$	48,597.7
GDP (US\$ billions)	358.1

	Score (0–100) or value (hard data)	Rank
Global Innovation Index 2012 (out of 141).....	44.4	37
Innovation Output Sub-Index	33.6	51
Innovation Input Sub-Index	55.2	28
Innovation Efficiency Index	0.6	121 ○
Global Innovation Index 2011 (out of 125)	34	34
GII 2012 rank among GII 2011 economies (125)	36	36

1 Institutions.....	69.6	40
1.1 Political environment	69.8	45
1.1.1 Political stability*.....	85.2	24
1.1.2 Government effectiveness*.....	61.5	36
1.1.3 Press freedom*.....	62.8	87
1.2 Regulatory environment.....	79.9	36
1.2.1 Regulatory quality*.....	61.5	56
1.2.2 Rule of law*.....	58.0	48
1.2.3 Cost of redundancy dismissal, salary weeks.....	8.0	1 ●
1.3 Business environment	59.2	47
1.3.1 Ease of starting a business*.....	74.1	37
1.3.2 Ease of resolving insolvency*.....	6.4	131 ○
1.3.3 Ease of paying taxes*.....	97.1	5 ●
2 Human capital & research.....	53.3	23
2.1 Education.....	49.3	77
2.1.1 Current expenditure on education, % GNI	n/a	n/a
2.1.2 Public expenditure/pupil, % GDP/cap.....	8.3	112 ○
2.1.3 School life expectancy, years.....	13.3	64
2.1.4 PISA scales in reading, maths, & science.....	459.5	38
2.1.5 Pupil-teacher ratio, secondary	12.4	53
2.2 Tertiary education	56.9	8 ●
2.2.1 Tertiary enrolment, % gross.....	30.4	73
2.2.2 Graduates in science & engineering, %	27.3	16
2.2.3 Tertiary inbound mobility, %.....	39.2	2 ●
2.2.4 Gross tertiary outbound enrolment, %	3.6	23
2.3 Research & development (R&D).....	53.8	15
2.3.1 Researchers, headcounts/mn pop.	n/a	n/a
2.3.2 Gross expenditure on R&D, % GDP.....	n/a	n/a
2.3.3 Quality of scientific research institutions†.....	53.8	38
3 Infrastructure.....	55.0	17
3.1 Information & communication technologies (ICT).....	69.7	17
3.1.1 ICT access*.....	67.6	32
3.1.2 ICT use*	51.2	25
3.1.3 Government's online service*.....	86.3	9 ●
3.1.4 E-participation*.....	73.7	11 ●
3.2 General infrastructure	69.3	2 ●
3.2.1 Electricity output, kWh/cap.....	17,878.6	3 ●
3.2.2 Electricity consumption, kWh/cap.....	17,295.9	1 ●
3.2.3 Quality of trade & transport infrastructure*.....	70.3	17
3.2.4 Gross capital formation, % GDP.....	25.3	40
3.3 Ecological sustainability	25.9	92
3.3.1 GDP/unit of energy use, 2000 PPP\$/kg oil eq.....	2.0	116 ○
3.3.2 Environmental performance*.....	50.9	74
3.3.3 ISO 14001 environmental certificates/bn PPP\$ GDP	2.7	36
4 Market sophistication	42.5	55
4.1 Credit	31.1	65
4.1.1 Ease of getting credit*	38.7	72
4.1.2 Domestic credit to private sector, % GDP.....	72.5	46
4.1.3 Microfinance gross loans, % GDP	n/a	n/a

4.2 Investment.....	25.2	68
4.2.1 Ease of protecting investors*.....	22.3	100 ○
4.2.2 Market capitalization, % GDP.....	47.6	43
4.2.3 Total value of stocks traded, % GDP.....	28.5	31
4.2.4 Venture capital deals/tr PPP\$ GDP.....	11.5	44
4.3 Trade & competition	71.2	23
4.3.1 Applied tariff rate, weighted mean, %.....	3.7	62
4.3.2 Non-agricultural mkt access weighted tariff, %.....	2.4	121 ○
4.3.3 Imports of goods & services, % GDP	68.8	24
4.3.4 Exports of goods & services, % GDP	77.9	16
4.3.5 Intensity of local competition†	76.7	18
5 Business sophistication	55.6	16
5.1 Knowledge workers.....	63.1	35
5.1.1 Knowledge-intensive employment, %.....	36.1	29
5.1.2 Firms offering formal training, % firms.....	n/a	n/a
5.1.3 R&D performed by business, %.....	n/a	n/a
5.1.4 R&D financed by business, %	n/a	n/a
5.1.5 GMAT mean score.....	502.1	75
5.1.6 GMAT test takers/mn pop. 20–34.....	54.1	76
5.2 Innovation linkages	68.7	2 ●
5.2.1 University/industry research collaboration†	53.4	35
5.2.2 State of cluster development†	58.9	19
5.2.3 R&D financed by abroad, %.....	n/a	n/a
5.2.4 JV–strategic alliance deals/tr PPP\$ GDP	147.8	7 ●
5.2.5 PCT patent filings with foreign inventor, %.....	100.0	1 ●
5.3 Knowledge absorption	34.8	71
5.3.1 Royalty & license fees payments/th GDP.....	n/a	n/a
5.3.2 High-tech imports less re-imports, %	7.3	80
5.3.3 Computer & comm. service imports, %.....	n/a	n/a
5.3.4 FDI net inflows, % GDP	1.3	100
6 Knowledge & technology outputs	18.7	110 ○
6.1 Knowledge creation.....	28.2	56
6.1.1 Domestic resident patent ap/bn PPP\$ GDP	n/a	n/a
6.1.2 PCT resident patent ap/bn PPP\$ GDP	0.1	60
6.1.3 Domestic res utility model ap/bn PPP\$ GDP.....	n/a	n/a
6.1.4 Scientific & technical articles/bn PPP\$ GDP.....	1.1	109 ○
6.2 Knowledge impact	27.7	91
6.2.1 Growth rate of PPP\$ GDP/worker, %.....	-1.4	110 ○
6.2.2 New businesses/th pop. 15–64.....	n/a	n/a
6.2.3 Computer software spending, % GDP.....	0.1	62 ○
6.2.4 ISO 9001 quality certificates/bn PPP\$ GDP	14.8	36
6.3 Knowledge diffusion	0.3	138 ○
6.3.1 Royalty & license fees receipts/th GDP.....	n/a	n/a
6.3.2 High-tech exports less re-exports, %.....	0.1	108 ○
6.3.3 Computer & comm. service exports, %	n/a	n/a
6.3.4 FDI net outflows, % GDP	n/a	n/a
7 Creative outputs	48.5	20
7.1 Creative intangibles.....	70.8	4 ●
7.1.1 Domestic res trademark reg/bn PPP\$ GDP.....	n/a	n/a
7.1.2 Madrid resident trademark reg/bn PPP\$ GDP.....	n/a	n/a
7.1.3 ICT & business model creation†	68.7	20
7.1.4 ICT & organizational model creation†	72.9	7 ●
7.2 Creative goods & services	23.0	63
7.2.1 Recreation & culture consumption, %.....	2.2	79 ○
7.2.2 National feature films/mn pop. 15–69.....	n/a	n/a
7.2.3 Paid-for dailies, circulation/th pop. 15–69.....	180.0	27
7.2.4 Creative goods exports, %.....	2.0	44
7.2.5 Creative services exports, %.....	n/a	n/a
7.3 Online creativity.....	29.2	51
7.3.1 Generic top-level domains (TLDs)/th pop. 15–69.....	11.0	47
7.3.2 Country-code TLDs/th pop. 15–69.....	40.6	46
7.3.3 Wikipedia monthly edits/mn pop. 15–69.....	804.7	72
7.3.4 Video uploads on YouTube/pop. 15–69.....	61.2	56

United Kingdom

Key indicators

Population (millions)	62.6
GDP per capita, PPP\$	35,974.4
GDP (US\$ billions)	2,481.0

	Score (0–100) or value (hard data)	Rank
Global Innovation Index 2012 (out of 141).....	61.2	5 ●
Innovation Output Sub-Index	54.5	6
Innovation Input Sub-Index	68.0	5 ●
Innovation Efficiency Index	0.8	44
Global Innovation Index 2011 (out of 125)		10
GII 2012 rank among GII 2011 economies (125)		5

1	Institutions.....	90.4	9
1.1	Political environment	83.0	21
1.1.1	Political stability*.....	75.1	49
1.1.2	Government effectiveness*.....	82.0	16
1.1.3	Press freedom*.....	91.9	25
1.2	Regulatory environment.....	97.7	3 ●
1.2.1	Regulatory quality*.....	96.0	7
1.2.2	Rule of law*.....	94.7	12
1.2.3	Cost of redundancy dismissal, salary weeks.....	8.0	1 ●
1.3	Business environment	90.6	6
1.3.1	Ease of starting a business*.....	89.2	16
1.3.2	Ease of resolving insolvency*.....	95.6	7
1.3.3	Ease of paying taxes*.....	87.0	19
2	Human capital & research.....	53.8	21
2.1	Education.....	62.8	27
2.1.1	Current expenditure on education, % GNI	5.1	38
2.1.2	Public expenditure/pupil, % GDP/cap.....	24.8	26
2.1.3	School life expectancy, years.....	16.4	14
2.1.4	PISA scales in reading, maths, & science.....	500.1	18
2.1.5	Pupil-teacher ratio, secondary	14.3	64
2.2	Tertiary education	45.3	33
2.2.1	Tertiary enrolment, % gross.....	58.5	37
2.2.2	Graduates in science & engineering, %	21.7	40
2.2.3	Tertiary inbound mobility, %.....	15.3	10
2.2.4	Gross tertiary outbound enrolment, %	0.6	91 ○
2.3	Research & development (R&D).....	53.2	17
2.3.1	Researchers, headcounts/mn pop.	4,269.2	20
2.3.2	Gross expenditure on R&D, % GDP.....	1.8	19
2.3.3	Quality of scientific research institutions†	85.3	3 ●
3	Infrastructure.....	61.8	6
3.1	Information & communication technologies (ICT).....	84.4	3 ●
3.1.1	ICT access*.....	83.6	7
3.1.2	ICT use*.....	64.4	11
3.1.3	Government's online service*.....	97.4	4 ●
3.1.4	E-participation*.....	92.1	5
3.2	General infrastructure	44.3	37
3.2.1	Electricity output, kWh/cap.....	6,076.6	36
3.2.2	Electricity consumption, kWh/cap.....	5,741.8	35
3.2.3	Quality of trade & transport infrastructure*.....	73.8	16
3.2.4	Gross capital formation, % GDP.....	15.0	130 ○
3.3	Ecological sustainability	56.8	10
3.3.1	GDP/unit of energy use, 2000 PPP\$/kg oil eq.....	8.6	23
3.3.2	Environmental performance*.....	68.8	9
3.3.3	ISO 14001 environmental certificates/bn PPP\$ GDP.....	6.6	17
4	Market sophistication	76.6	3 ●
4.1	Credit	85.6	1 ●
4.1.1	Ease of getting credit*.....	100.0	1 ●
4.1.2	Domestic credit to private sector, % GDP.....	204.0	5 ●
4.1.3	Microfinance gross loans, % GDP.....	n/a	n/a

4.2	Investment.....	78.2	3 ●
4.2.1	Ease of protecting investors*.....	92.8	10
4.2.2	Market capitalization, % GDP.....	138.3	9
4.2.3	Total value of stocks traded, % GDP.....	133.9	6
4.2.4	Venture capital deals/tr PPP\$ GDP.....	146.9	8
4.3	Trade & competition	66.1	57
4.3.1	Applied tariff rate, weighted mean, %.....	1.6	11
4.3.2	Non-agricultural mkt access weighted tariff, %.....	2.0	92 ○
4.3.3	Imports of goods & services, % GDP.....	32.8	95 ○
4.3.4	Exports of goods & services, % GDP.....	29.4	90 ○
4.3.5	Intensity of local competition†	82.1	2 ●
5	Business sophistication	57.3	15
5.1	Knowledge workers.....	75.0	17
5.1.1	Knowledge-intensive employment, %.....	42.5	12
5.1.2	Firms offering formal training, % firms.....	n/a	n/a
5.1.3	R&D performed by business, %.....	62.0	20
5.1.4	R&D financed by business, %	45.4	30
5.1.5	GMAT mean score.....	586.1	7
5.1.6	GMAT test takers/mn pop. 20–34.....	132.0	42
5.2	Innovation linkages	51.4	21
5.2.1	University/industry research collaboration†	79.2	2 ●
5.2.2	State of cluster development†	62.4	12
5.2.3	R&D financed by abroad, %.....	17.7	14
5.2.4	JV–strategic alliance deals/tr PPP\$ GDP	42.7	32
5.2.5	PCT patent filings with foreign inventor, %.....	32.4	64 ○
5.3	Knowledge absorption	45.5	29
5.3.1	Royalty & license fees payments/th GDP.....	4.3	20
5.3.2	High-tech imports less re-imports, %	13.1	29
5.3.3	Computer & comm. service imports, %.....	43.8	28
5.3.4	FDI net inflows, % GDP.....	2.1	75 ○
6	Knowledge & technology outputs	57.6	8
6.1	Knowledge creation.....	63.2	13
6.1.1	Domestic resident patent ap/bn PPP\$ GDP	9.6	20
6.1.2	PCT resident patent ap/bn PPP\$ GDP	2.1	19
6.1.3	Domestic res utility model ap/bn PPP\$ GDP.....	n/a	n/a
6.1.4	Scientific & technical articles/bn PPP\$ GDP.....	21.5	12
6.2	Knowledge impact	55.3	11
6.2.1	Growth rate of PPP\$ GDP/worker, %.....	1.7	79 ○
6.2.2	New businesses/th pop. 15–64.....	8.0	8
6.2.3	Computer software spending, % GDP.....	1.0	5
6.2.4	ISO 9001 quality certificates/bn PPP\$ GDP	20.6	25
6.3	Knowledge diffusion	54.3	16
6.3.1	Royalty & license fees receipts/th GDP.....	6.3	11
6.3.2	High-tech exports less re-exports, %.....	15.9	17
6.3.3	Computer & comm. service exports, %	46.2	29
6.3.4	FDI net outflows, % GDP	0.5	56
7	Creative outputs	51.4	14
7.1	Creative intangibles.....	41.5	65
7.1.1	Domestic res trademark reg/bn PPP\$ GDP.....	41.6	41
7.1.2	Madrid resident trademark reg/bn PPP\$ GDP.....	0.5	35 ○
7.1.3	ICT & business model creation†	76.5	3 ●
7.1.4	ICT & organizational model creation†	59.8	27
7.2	Creative goods & services	47.0	8
7.2.1	Recreation & culture consumption, %.....	11.4	3 ●
7.2.2	National feature films/mn pop. 15–69.....	2.2	47
7.2.3	Paid-for dailies, circulation/th pop. 15–69.....	321.0	12
7.2.4	Creative goods exports, %.....	4.5	16
7.2.5	Creative services exports, %.....	2.4	56 ○
7.3	Online creativity.....	75.6	4 ●
7.3.1	Generic top-level domains (TLDs)/th pop. 15–69.....	100.0	1 ●
7.3.2	Country-code TLDs/th pop. 15–69.....	75.9	7
7.3.3	Wikipedia monthly edits/mn pop. 15–69.....	9,311.9	10
7.3.4	Video uploads on YouTube/pop. 15–69.....	78.9	5 ●

Key indicators

Population (millions)	312.9
GDP per capita, PPP\$	48,147.2
GDP (US\$ billions)	15,064.8

	Score (0–100) or value (hard data)	Rank
Global Innovation Index 2012 (out of 141).....	57.7	10
Innovation Output Sub-Index	49.1	16
Innovation Input Sub-Index	66.3	9
Innovation Efficiency Index	0.7	70
Global Innovation Index 2011 (out of 125) .....	.....	7
GII 2012 rank among GII 2011 economies (125) .....	.....	10

1	Institutions.....	85.1	17
1.1	Political environment	78.5	29
1.1.1	Political stability*.....	72.8	52
1.1.2	Government effectiveness*.....	78.8	19
1.1.3	Press freedom*.....	83.8	41
1.2	Regulatory environment.....	94.4	13
1.2.1	Regulatory quality*.....	87.7	20
1.2.2	Rule of law*.....	89.8	17
1.2.3	Cost of redundancy dismissal, salary weeks.....	8.0	1 ●
1.3	Business environment	82.5	13
1.3.1	Ease of starting a business*.....	92.8	11
1.3.2	Ease of resolving insolvency*.....	91.3	13
1.3.3	Ease of paying taxes*.....	63.3	52
2	Human capital & research.....	53.4	22
2.1	Education.....	61.3	31
2.1.1	Current expenditure on education, % GNI	4.8	46
2.1.2	Public expenditure/pupil, % GDP/cap.....	22.0	46
2.1.3	School life expectancy, years.....	16.8	10
2.1.4	PISA scales in reading, maths, & science.....	496.4	23
2.1.5	Pupil-teacher ratio, secondary	13.8	61
2.2	Tertiary education	38.8	54
2.2.1	Tertiary enrolment, % gross.....	94.8	2 ●
2.2.2	Graduates in science & engineering, %	15.5	74 ○
2.2.3	Tertiary inbound mobility, %.....	3.4	42
2.2.4	Gross tertiary outbound enrolment, %	0.2	119 ○
2.3	Research & development (R&D).....	60.1	12
2.3.1	Researchers, headcounts/mn pop.	4,663.3	18
2.3.2	Gross expenditure on R&D, % GDP.....	2.8	9
2.3.3	Quality of scientific research institutions†.....	80.4	7
3	Infrastructure.....	56.1	14
3.1	Information & communication technologies (ICT).....	80.9	5 ●
3.1.1	ICT access*.....	72.4	22
3.1.2	ICT use*	58.9	17
3.1.3	Government's online service*.....	100.0	1 ●
3.1.4	E-participation*.....	92.1	5 ●
3.2	General infrastructure	58.5	12
3.2.1	Electricity output, kWh/cap.....	13,990.7	9
3.2.2	Electricity consumption, kWh/cap.....	13,268.1	11
3.2.3	Quality of trade & transport infrastructure*.....	78.8	7
3.2.4	Gross capital formation, % GDP.....	15.1	129 ○
3.3	Ecological sustainability	29.0	73
3.3.1	GDP/unit of energy use, 2000 PPP\$/kg oil eq.....	5.2	71
3.3.2	Environmental performance*.....	56.6	48
3.3.3	ISO 14001 environmental certificates/bn PPP\$ GDP	0.3	93 ○
4	Market sophistication	76.8	2 ●
4.1	Credit	83.8	2 ●
4.1.1	Ease of getting credit*	97.1	4
4.1.2	Domestic credit to private sector, % GDP.....	202.2	6 ●
4.1.3	Microfinance gross loans, % GDP	n/a	n/a

4.2	Investment.....	83.0	2 ●
4.2.1	Ease of protecting investors*.....	94.2	5
4.2.2	Market capitalization, % GDP.....	117.5	13
4.2.3	Total value of stocks traded, % GDP.....	208.8	1 ●
4.2.4	Venture capital deals/tr PPP\$ GDP.....	243.3	5 ●
4.3	Trade & competition	63.7	69
4.3.1	Applied tariff rate, weighted mean, %.....	1.8	41
4.3.2	Non-agricultural mkt access weighted tariff, %.....	1.1	76
4.3.3	Imports of goods & services, % GDP	16.2	139 ○
4.3.4	Exports of goods & services, % GDP	12.6	135 ○
4.3.5	Intensity of local competition†	76.8	17
5	Business sophistication	59.9	9
5.1	Knowledge workers.....	79.3	6 ●
5.1.1	Knowledge-intensive employment, %.....	36.3	28
5.1.2	Firms offering formal training, % firms.....	n/a	n/a
5.1.3	R&D performed by business, %.....	72.6	8
5.1.4	R&D financed by business, %	67.3	10
5.1.5	GMAT mean score.....	529.4	53
5.1.6	GMAT test takers/mn pop. 20–34.....	1,832.0	1 ●
5.2	Innovation linkages	58.5	8
5.2.1	University/industry research collaboration†	78.5	3 ●
5.2.2	State of cluster development†	63.2	9
5.2.3	R&D financed by abroad, %.....	n/a	n/a
5.2.4	JV–strategic alliance deals/tr PPP\$ GDP	46.1	29
5.2.5	PCT patent filings with foreign inventor, %.....	42.3	56
5.3	Knowledge absorption	41.7	46
5.3.1	Royalty & license fees payments/th GDP.....	2.3	40
5.3.2	High-tech imports less re-imports, %	17.3	15
5.3.3	Computer & comm. service imports, %.....	34.7	57
5.3.4	FDI net inflows, % GDP	1.6	89 ○
6	Knowledge & technology outputs	56.1	11
6.1	Knowledge creation.....	66.8	9
6.1.1	Domestic resident patent ap/bn PPP\$ GDP	16.7	8
6.1.2	PCT resident patent ap/bn PPP\$ GDP	3.2	14
6.1.3	Domestic res utility model ap/bn PPP\$ GDP.....	n/a	n/a
6.1.4	Scientific & technical articles/bn PPP\$ GDP.....	15.0	27
6.2	Knowledge impact	45.0	31
6.2.1	Growth rate of PPP\$ GDP/worker, %	3.5	42
6.2.2	New businesses/th pop. 15–64.....	n/a	n/a
6.2.3	Computer software spending, % GDP.....	0.9	7
6.2.4	ISO 9001 quality certificates/bn PPP\$ GDP	1.8	96 ○
6.3	Knowledge diffusion	56.3	13
6.3.1	Royalty & license fees receipts/th GDP.....	7.3	9
6.3.2	High-tech exports less re-exports, %.....	14.8	20
6.3.3	Computer & comm. service exports, %	45.4	30
6.3.4	FDI net outflows, % GDP	2.4	22
7	Creative outputs	42.2	33
7.1	Creative intangibles.....	37.0	84
7.1.1	Domestic res trademark reg/bn PPP\$ GDP.....	11.2	75 ○
7.1.2	Madrid resident trademark reg/bn PPP\$ GDP.....	0.3	41 ○
7.1.3	ICT & business model creation†	77.0	2 ●
7.1.4	ICT & organizational model creation†	60.1	25
7.2	Creative goods & services	37.2	27
7.2.1	Recreation & culture consumption, %.....	9.3	18
7.2.2	National feature films/mn pop. 15–69.....	3.5	34
7.2.3	Paid-for dailies, circulation/th pop. 15–69.....	212.4	22
7.2.4	Creative goods exports, %.....	2.5	34
7.2.5	Creative services exports, %.....	5.4	36
7.3	Online creativity.....	57.6	20
7.3.1	Generic top-level domains (TLDs)/th pop. 15–69.....	91.2	8
7.3.2	Country-code TLDs/th pop. 15–69.....	30.4	54
7.3.3	Wikipedia monthly edits/mn pop. 15–69.....	5,004.9	30
7.3.4	Video uploads on YouTube/pop. 15–69.....	83.2	2 ●

Uruguay

Key indicators

Population (millions)	3.4
GDP per capita, PPP\$	15,469.7
GDP (US\$ billions)	49.4

	Score (0–100) or value (hard data)	Rank
Global Innovation Index 2012 (out of 141).....	35.1	67
Innovation Output Sub-Index	30.0	67
Innovation Input Sub-Index	40.3	68
Innovation Efficiency Index	0.7	68
Global Innovation Index 2011 (out of 125)		64
GII 2012 rank among GII 2011 economies (125)		65

1	Institutions.....	60.1	61
1.1	Political environment	78.4	30
1.1.1	Political stability*.....	86.7	22 ●
1.1.2	Government effectiveness*.....	58.2	42
1.1.3	Press freedom*.....	90.4	29 ●
1.2	Regulatory environment.....	69.5	60
1.2.1	Regulatory quality*.....	61.9	54
1.2.2	Rule of law*.....	66.7	38
1.2.3	Cost of redundancy dismissal, salary weeks.....	20.8	92
1.3	Business environment	32.4	103
1.3.1	Ease of starting a business*.....	18.7	114
1.3.2	Ease of resolving insolvency*.....	63.3	52
1.3.3	Ease of paying taxes*.....	15.1	119
2	Human capital & research.....	32.9	74
2.1	Education.....	44.9	92
2.1.1	Current expenditure on education, % GNI	2.3	121 ○
2.1.2	Public expenditure/pupil, % GDP/cap.....	10.2	107 ○
2.1.3	School life expectancy, years.....	15.5	24 ●
2.1.4	PISA scales in reading, maths, & science.....	426.6	47
2.1.5	Pupil-teacher ratio, secondary	12.4	54
2.2	Tertiary education	31.0	74
2.2.1	Tertiary enrolment, % gross.....	63.3	23 ●
2.2.2	Graduates in science & engineering, %	13.6	85
2.2.3	Tertiary inbound mobility, %.....	n/a	n/a
2.2.4	Gross tertiary outbound enrolment, %	0.9	79
2.3	Research & development (R&D).....	22.7	66
2.3.1	Researchers, headcounts/mn pop.	643.5	67
2.3.2	Gross expenditure on R&D, % GDP.....	0.7	45
2.3.3	Quality of scientific research institutions†	48.4	55
3	Infrastructure.....	37.8	55
3.1	Information & communication technologies (ICT).....	38.4	59
3.1.1	ICT access*.....	57.5	47
3.1.2	ICT use*.....	22.6	56
3.1.3	Government's online service*.....	54.9	52
3.1.4	E-participation*.....	18.4	71
3.2	General infrastructure	29.7	105
3.2.1	Electricity output, kWh/cap.....	2,647.8	65
3.2.2	Electricity consumption, kWh/cap.....	2,670.9	61
3.2.3	Quality of trade & transport infrastructure*.....	39.5	63
3.2.4	Gross capital formation, % GDP.....	17.9	113
3.3	Ecological sustainability	45.5	25 ●
3.3.1	GDP/unit of energy use, 2000 PPP\$/kg oil eq.....	10.3	11 ●
3.3.2	Environmental performance*.....	57.1	45
3.3.3	ISO 14001 environmental certificates/bn PPP\$ GDP.....	2.2	40
4	Market sophistication	33.7	94
4.1	Credit	18.6	98
4.1.1	Ease of getting credit*.....	50.4	62
4.1.2	Domestic credit to private sector, % GDP.....	22.3	114
4.1.3	Microfinance gross loans, % GDP.....	0.0	79 ○

4.2	Investment.....	24.9	70
4.2.1	Ease of protecting investors*.....	35.9	76
4.2.2	Market capitalization, % GDP.....	0.4	105 ○
4.2.3	Total value of stocks traded, % GDP.....	0.0	106 ○
4.2.4	Venture capital deals/tr PPP\$ GDP.....	38.4	31
4.3	Trade & competition	57.5	100
4.3.1	Applied tariff rate, weighted mean, %.....	3.6	59
4.3.2	Non-agricultural mkt access weighted tariff, %.....	1.5	88
4.3.3	Imports of goods & services, % GDP.....	25.0	124 ○
4.3.4	Exports of goods & services, % GDP.....	25.9	104
4.3.5	Intensity of local competition†	56.1	99
5	Business sophistication	37.1	81
5.1	Knowledge workers.....	49.1	57
5.1.1	Knowledge-intensive employment, %.....	21.4	63
5.1.2	Firms offering formal training, % firms.....	48.6	31
5.1.3	R&D performed by business, %.....	18.1	68
5.1.4	R&D financed by business, %	24.6	59
5.1.5	GMAT mean score.....	595.2	4 ●
5.1.6	GMAT test takers/mn pop. 20–34.....	77.6	58
5.2	Innovation linkages	33.6	76
5.2.1	University/industry research collaboration†	46.5	50
5.2.2	State of cluster development†	42.9	60
5.2.3	R&D financed by abroad, %.....	2.3	73
5.2.4	JV–strategic alliance deals/tr PPP\$ GDP	26.9	52
5.2.5	PCT patent filings with foreign inventor, %.....	66.7	43
5.3	Knowledge absorption	28.4	100
5.3.1	Royalty & license fees payments/th GDP.....	0.4	94
5.3.2	High-tech imports less re-imports, %	10.2	51
5.3.3	Computer & comm. service imports, %.....	21.4	96
5.3.4	FDI net inflows, % GDP.....	4.0	46
6	Knowledge & technology outputs	24.2	82
6.1	Knowledge creation.....	9.2	114
6.1.1	Domestic resident patent ap/bn PPP\$ GDP	0.5	79
6.1.2	PCT resident patent ap/bn PPP\$ GDP	n/a	n/a
6.1.3	Domestic res utility model ap/bn PPP\$ GDP.....	0.9	34
6.1.4	Scientific & technical articles/bn PPP\$ GDP.....	5.6	54
6.2	Knowledge impact	44.9	32
6.2.1	Growth rate of PPP\$ GDP/worker, %.....	7.6	5 ●
6.2.2	New businesses/th pop. 15–64.....	2.1	46
6.2.3	Computer software spending, % GDP.....	0.1	67 ○
6.2.4	ISO 9001 quality certificates/bn PPP\$ GDP	25.3	19 ●
6.3	Knowledge diffusion	18.7	108
6.3.1	Royalty & license fees receipts/th GDP.....	0.0	99 ○
6.3.2	High-tech exports less re-exports, %.....	1.5	67
6.3.3	Computer & comm. service exports, %	16.7	101
6.3.4	FDI net outflows, % GDP	0.0	105 ○
7	Creative outputs	35.7	52
7.1	Creative intangibles.....	45.6	45
7.1.1	Domestic res trademark reg/bn PPP\$ GDP.....	32.7	45
7.1.2	Madrid resident trademark reg/bn PPP\$ GDP.....	n/a	n/a
7.1.3	ICT & business model creation†	65.1	25 ●
7.1.4	ICT & organizational model creation†	56.2	38
7.2	Creative goods & services	19.5	76
7.2.1	Recreation & culture consumption, %.....	5.2	50
7.2.2	National feature films/mn pop. 15–69.....	6.2	18 ●
7.2.3	Paid-for dailies, circulation/th pop. 15–69.....	64.0	76
7.2.4	Creative goods exports, %.....	1.3	62
7.2.5	Creative services exports, %.....	0.0	110 ○
7.3	Online creativity.....	32.0	44
7.3.1	Generic top-level domains (TLDs)/th pop. 15–69.....	6.3	56
7.3.2	Country-code TLDs/th pop. 15–69.....	39.1	47
7.3.3	Wikipedia monthly edits/mn pop. 15–69.....	3,948.1	34
7.3.4	Video uploads on YouTube/pop. 15–69.....	62.4	49

Key indicators

Population (millions)	28.6
GDP per capita, PPP\$	3,293.7
GDP (US\$ billions)	43.7

	Score (0–100) or value (hard data)	Rank
Global Innovation Index 2012 (out of 141).....	23.9	127
Innovation Output Sub-Index	14.7	137 ○
Innovation Input Sub-Index	33.2	100
Innovation Efficiency Index	0.4	140 ○
Global Innovation Index 2011 (out of 125)	n/a	
GII 2012 rank among GII 2011 economies (125)	n/a	

1 Institutions.....	34.4	133
1.1 Political environment	34.6	128
1.1.1 Political stability*.....	46.6	106
1.1.2 Government effectiveness*.....	20.0	119
1.1.3 Press freedom*.....	37.2	126
1.2 Regulatory environment.....	42.2	129
1.2.1 Regulatory quality*.....	11.4	139 ○
1.2.2 Rule of law*.....	11.4	139 ○
1.2.3 Cost of redundancy dismissal, salary weeks.....	21.7	95
1.3 Business environment	26.6	117
1.3.1 Ease of starting a business*.....	37.4	88
1.3.2 Ease of resolving insolvency*.....	25.8	104
1.3.3 Ease of paying taxes*.....	16.5	117
2 Human capital & research.....	48.4	35 ●
2.1 Education.....	75.4	2 ●
2.1.1 Current expenditure on education, % GNI	9.4	2 ●
2.1.2 Public expenditure/pupil, % GDP/cap.....	n/a	n/a
2.1.3 School life expectancy, years.....	11.6	96
2.1.4 PISA scales in reading, maths, & science.....	n/a	n/a
2.1.5 Pupil-teacher ratio, secondary	13.3	58 ●
2.2 Tertiary education	21.4	99
2.2.1 Tertiary enrolment, % gross.....	8.9	109
2.2.2 Graduates in science & engineering, %	21.1	45 ●
2.2.3 Tertiary inbound mobility, %.....	0.0	90 ○
2.2.4 Gross tertiary outbound enrolment, %	1.0	78
2.3 Research & development (R&D).....	n/a	n/a
2.3.1 Researchers, headcounts/mn pop.	n/a	n/a
2.3.2 Gross expenditure on R&D, % GDP.....	n/a	n/a
2.3.3 Quality of scientific research institutions†.....	n/a	n/a
3 Infrastructure.....	23.7	111
3.1 Information & communication technologies (ICT).....	25.6	92
3.1.1 ICT access*.....	20.8	117
3.1.2 ICT use*	8.1	95
3.1.3 Government's online service*.....	49.7	67
3.1.4 E-participation*.....	23.7	59 ●
3.2 General infrastructure	33.8	87
3.2.1 Electricity output, kWh/cap.....	1,787.8	80
3.2.2 Electricity consumption, kWh/cap.....	1,635.9	77
3.2.3 Quality of trade & transport infrastructure*.....	38.5	69
3.2.4 Gross capital formation, % GDP.....	26.5	29 ●
3.3 Ecological sustainability	11.8	124
3.3.1 GDP/unit of energy use, 2000 PPP\$/kg oil eq.....	1.4	123 ○
3.3.2 Environmental performance*.....	32.2	122 ○
3.3.3 ISO 14001 environmental certificates/bn PPP\$ GDP	0.1	122
4 Market sophistication	24.1	125
4.1 Credit	7.7	126
4.1.1 Ease of getting credit*	10.9	120
4.1.2 Domestic credit to private sector, % GDP.....	n/a	n/a
4.1.3 Microfinance gross loans, % GDP.....	0.4	49

4.2 Investment.....	4.3	127
4.2.1 Ease of protecting investors*.....	15.8	110
4.2.2 Market capitalization, % GDP.....	4.2	100
4.2.3 Total value of stocks traded, % GDP.....	0.1	100
4.2.4 Venture capital deals/tr PPP\$ GDP.....	0.0	65 ○
4.3 Trade & competition	60.3	86
4.3.1 Applied tariff rate, weighted mean, %.....	6.9	100
4.3.2 Non-agricultural mkt access weighted tariff, %.....	0.3	35 ●
4.3.3 Imports of goods & services, % GDP.....	30.9	104
4.3.4 Exports of goods & services, % GDP.....	31.5	84
4.3.5 Intensity of local competition†	n/a	n/a
5 Business sophistication	35.5	89
5.1 Knowledge workers.....	28.8	118
5.1.1 Knowledge-intensive employment, %.....	n/a	n/a
5.1.2 Firms offering formal training, % firms.....	9.6	103 ○
5.1.3 R&D performed by business, %.....	n/a	n/a
5.1.4 R&D financed by business, %	n/a	n/a
5.1.5 GMAT mean score.....	513.9	64
5.1.6 GMAT test takers/mn pop. 20–34.....	17.2	116
5.2 Innovation linkages	22.7	131
5.2.1 University/industry research collaboration†	n/a	n/a
5.2.2 State of cluster development†	n/a	n/a
5.2.3 R&D financed by abroad, %.....	n/a	n/a
5.2.4 JV–strategic alliance deals/tr PPP\$ GDP	38.2	37 ●
5.2.5 PCT patent filings with foreign inventor, %.....	n/a	n/a
5.3 Knowledge absorption	54.9	11 ●
5.3.1 Royalty & license fees payments/th GDP.....	n/a	n/a
5.3.2 High-tech imports less re-imports, %	n/a	n/a
5.3.3 Computer & comm. service imports, %.....	n/a	n/a
5.3.4 FDI net inflows, % GDP.....	2.1	74
6 Knowledge & technology outputs	22.7	89
6.1 Knowledge creation.....	12.1	107
6.1.1 Domestic resident patent ap/bn PPP\$ GDP	4.3	35 ●
6.1.2 PCT resident patent ap/bn PPP\$ GDP.....	0.0	109 ○
6.1.3 Domestic res utility model ap/bn PPP\$ GDP.....	1.9	19 ●
6.1.4 Scientific & technical articles/bn PPP\$ GDP.....	1.8	87
6.2 Knowledge impact	33.4	69
6.2.1 Growth rate of PPP\$ GDP/worker, %.....	5.4	17 ●
6.2.2 New businesses/th pop. 15–64.....	0.8	70
6.2.3 Computer software spending, % GDP.....	n/a	n/a
6.2.4 ISO 9001 quality certificates/bn PPP\$ GDP	1.5	103
6.3 Knowledge diffusion	n/a	n/a
6.3.1 Royalty & license fees receipts/th GDP.....	n/a	n/a
6.3.2 High-tech exports less re-exports, %.....	n/a	n/a
6.3.3 Computer & comm. service exports, %	n/a	n/a
6.3.4 FDI net outflows, % GDP	n/a	n/a
7 Creative outputs	6.6	138 ○
7.1 Creative intangibles.....	5.3	135 ○
7.1.1 Domestic res trademark reg/bn PPP\$ GDP.....	22.3	60
7.1.2 Madrid resident trademark reg/bn PPP\$ GDP.....	0.0	60 ○
7.1.3 ICT & business model creation†	n/a	n/a
7.1.4 ICT & organizational model creation†	n/a	n/a
7.2 Creative goods & services	10.6	99
7.2.1 Recreation & culture consumption, %.....	2.4	78
7.2.2 National feature films/mn pop. 15–69.....	n/a	n/a
7.2.3 Paid-for dailies, circulation/th pop. 15–69.....	1.7	133 ○
7.2.4 Creative goods exports, %.....	n/a	n/a
7.2.5 Creative services exports, %.....	n/a	n/a
7.3 Online creativity.....	5.2	126
7.3.1 Generic top-level domains (TLDs)/th pop. 15–69.....	0.3	122
7.3.2 Country-code TLDs/th pop. 15–69.....	7.6	102
7.3.3 Wikipedia monthly edits/mn pop. 15–69.....	31.5	112
7.3.4 Video uploads on YouTube/pop. 15–69.....	12.7	131

Venezuela (Bolivarian Republic of)

Key indicators

Population (millions)	29.8
GDP per capita, PPP\$	12,407.2
GDP (US\$ billions)	309.8

	Score (0–100) or value (hard data)	Rank
Global Innovation Index 2012 (out of 141).....	25.4	118
Innovation Output Sub-Index	22.8	103
Innovation Input Sub-Index	28.1	126
Innovation Efficiency Index	0.8	42 ●
Global Innovation Index 2011 (out of 125)		102
GII 2012 rank among GII 2011 economies (125)		108

1	Institutions.....	16.2	140	○
1.1	Political environment	34.2	129	
1.1.1	Political stability*.....	32.2	127	
1.1.2	Government effectiveness*.....	14.2	132	
1.1.3	Press freedom*.....	56.1	92	
1.2	Regulatory environment.....	7.9	140	○
1.2.1	Regulatory quality*.....	11.6	138	○
1.2.2	Rule of law*.....	4.2	140	○
1.2.3	Cost of redundancy dismissal, salary weeks	n/a	n/a	
1.3	Business environment	6.7	140	○
1.3.1	Ease of starting a business*.....	15.1	119	
1.3.2	Ease of resolving insolvency*.....	3.5	135	
1.3.3	Ease of paying taxes*.....	1.4	138	○

2	Human capital & research.....	34.4	69	
2.1	Education.....	60.7	33	●
2.1.1	Current expenditure on education, % GNI	3.6	86	
2.1.2	Public expenditure/pupil, % GDP/cap.....	n/a	n/a	
2.1.3	School life expectancy, years.....	14.4	45	●
2.1.4	PISA scales in reading, maths, & science	413.4	52	
2.1.5	Pupil-teacher ratio, secondary	6.8	3	●
2.2	Tertiary education	26.5	86	
2.2.1	Tertiary enrolment, % gross.....	78.1	9	●
2.2.2	Graduates in science & engineering, %	n/a	n/a	
2.2.3	Tertiary inbound mobility, %.....	0.0	90	○
2.2.4	Gross tertiary outbound enrolment, %	0.5	100	
2.3	Research & development (R&D).....	16.0	99	
2.3.1	Researchers, headcounts/mn pop.	239.4	83	
2.3.2	Gross expenditure on R&D, % GDP.....	n/a	n/a	
2.3.3	Quality of scientific research institutions†	30.3	109	

3	Infrastructure.....	29.7	86	
3.1	Information & communication technologies (ICT).....	33.7	69	
3.1.1	ICT access*.....	38.3	81	
3.1.2	ICT use*.....	21.8	59	
3.1.3	Government's online service*.....	48.4	73	
3.1.4	E-participation*.....	26.3	55	
3.2	General infrastructure	32.2	91	
3.2.1	Electricity output, kWh/cap.....	4,314.7	49	●
3.2.2	Electricity consumption, kWh/cap.....	3,151.6	56	
3.2.3	Quality of trade & transport infrastructure*.....	36.0	77	
3.2.4	Gross capital formation, % GDP.....	20.8	84	
3.3	Ecological sustainability	23.1	99	
3.3.1	GDP/unit of energy use, 2000 PPP\$/kg oil eq.....	2.9	102	
3.3.2	Environmental performance*.....	55.6	54	
3.3.3	ISO 14001 environmental certificates/bn PPP\$ GDP	0.2	109	

4	Market sophistication	16.9	139	○
4.1	Credit	1.9	140	○
4.1.1	Ease of getting credit*.....	0.0	140	○
4.1.2	Domestic credit to private sector, % GDP	21.7	115	
4.1.3	Microfinance gross loans, % GDP	0.0	76	

4.2	Investment.....	0.2	141	○
4.2.1	Ease of protecting investors*.....	0.7	139	○
4.2.2	Market capitalization, % GDP.....	1.0	104	
4.2.3	Total value of stocks traded, % GDP.....	0.0	105	
4.2.4	Venture capital deals/tr PPP\$ GDP.....	0.0	65	○

4.3	Trade & competition	48.6	127	
4.3.1	Applied tariff rate, weighted mean, %.....	10.6	128	
4.3.2	Non-agricultural mkt access weighted tariff, %.....	0.2	34	●
4.3.3	Imports of goods & services, % GDP	17.2	138	○
4.3.4	Exports of goods & services, % GDP	28.7	95	
4.3.5	Intensity of local competition†	39.0	132	○

5	Business sophistication	43.4	48	●
5.1	Knowledge workers.....	55.7	42	●
5.1.1	Knowledge-intensive employment, %.....	23.9	54	
5.1.2	Firms offering formal training, % firms.....	56.0	18	●
5.1.3	R&D performed by business, %.....	n/a	n/a	
5.1.4	R&D financed by business, %	n/a	n/a	
5.1.5	GMAT mean score.....	499.8	76	
5.1.6	GMAT test takers/mn pop. 20–34.....	77.8	57	●
5.2	Innovation linkages	40.0	54	●
5.2.1	University/industry research collaboration†	41.1	77	
5.2.2	State of cluster development†	24.7	124	
5.2.3	R&D financed by abroad, %.....	n/a	n/a	
5.2.4	JV–strategic alliance deals/tr PPP\$ GDP	13.8	79	
5.2.5	PCT patent filings with foreign inventor, %.....	100.0	1	●
5.3	Knowledge absorption	34.4	73	
5.3.1	Royalty & license fees payments/th GDP.....	1.2	68	
5.3.2	High-tech imports less re-imports, %	n/a	n/a	
5.3.3	Computer & comm. service imports, %.....	33.4	63	
5.3.4	FDI net inflows, % GDP.....	-0.4	135	

6	Knowledge & technology outputs	17.4	121	
6.1	Knowledge creation.....	3.1	128	
6.1.1	Domestic resident patent ap/bn PPP\$ GDP	n/a	n/a	
6.1.2	PCT resident patent ap/bn PPP\$ GDP	n/a	n/a	
6.1.3	Domestic res utility model ap/bn PPP\$ GDP	n/a	n/a	
6.1.4	Scientific & technical articles/bn PPP\$ GDP	1.0	113	
6.2	Knowledge impact	12.6	131	
6.2.1	Growth rate of PPP\$ GDP/worker, %.....	-3.4	115	○
6.2.2	New businesses/th pop. 15–64.....	n/a	n/a	
6.2.3	Computer software spending, % GDP.....	0.1	58	
6.2.4	ISO 9001 quality certificates/bn PPP\$ GDP	1.7	99	
6.3	Knowledge diffusion	36.5	37	●
6.3.1	Royalty & license fees receipts/th GDP.....	n/a	n/a	
6.3.2	High-tech exports less re-exports, %.....	n/a	n/a	
6.3.3	Computer & comm. service exports, %	17.7	98	
6.3.4	FDI net outflows, % GDP	0.6	49	

7	Creative outputs	28.2	87	
7.1	Creative intangibles.....	36.3	88	
7.1.1	Domestic res trademark reg/bn PPP\$ GDP.....	n/a	n/a	
7.1.2	Madrid resident trademark reg/bn PPP\$ GDP.....	n/a	n/a	
7.1.3	ICT & business model creation†	42.5	104	
7.1.4	ICT & organizational model creation†	30.1	121	
7.2	Creative goods & services	17.6	78	
7.2.1	Recreation & culture consumption, %.....	6.3	43	
7.2.2	National feature films/mn pop. 15–69.....	0.5	84	
7.2.3	Paid-for dailies, circulation/th pop. 15–69.....	95.0	58	
7.2.4	Creative goods exports, %.....	0.0	129	
7.2.5	Creative services exports, %.....	4.6	41	●
7.3	Online creativity.....	22.4	65	
7.3.1	Generic top-level domains (TLDs)/th pop. 15–69.....	3.8	67	
7.3.2	Country-code TLDs/th pop. 15–69.....	33.9	51	●
7.3.3	Wikipedia monthly edits/mn pop. 15–69.....	720.1	76	
7.3.4	Video uploads on YouTube/pop. 15–69.....	48.3	83	

Key indicators

Population (millions)	89.3
GDP per capita, PPP\$	3,354.8
GDP (US\$ billions)	121.6

	Score (0–100) or value (hard data)	Rank
Global Innovation Index 2012 (out of 141).....	33.9	76
Innovation Output Sub-Index	30.8	59
Innovation Input Sub-Index	37.0	83
Innovation Efficiency Index	0.8	27 ●
Global Innovation Index 2011 (out of 125)	51	
GII 2012 rank among GII 2011 economies (125)	74	

1 Institutions.....	40.9	112	○
1.1 Political environment	39.2	117	○
1.1.1 Political stability*.....	68.4	57	
1.1.2 Government effectiveness*.....	32.8	85	
1.1.3 Press freedom*.....	16.2	136	○
1.2 Regulatory environment.....	53.0	108	
1.2.1 Regulatory quality*.....	37.1	112	○
1.2.2 Rule of law*.....	34.9	88	
1.2.3 Cost of redundancy dismissal, salary weeks.....	23.1	104	
1.3 Business environment	30.4	106	
1.3.1 Ease of starting a business*.....	42.4	81	
1.3.2 Ease of resolving insolvency*.....	18.7	114	○
1.3.3 Ease of paying taxes*.....	30.2	97	

2 Human capital & research.....	26.1	107	
2.1 Education.....	42.9	100	
2.1.1 Current expenditure on education, % GNI	2.8	113	○
2.1.2 Public expenditure/pupil, % GDP/cap.....	21.3	49	
2.1.3 School life expectancy, years.....	11.9	89	
2.1.4 PISA scales in reading, maths, & science.....	n/a	n/a	
2.1.5 Pupil-teacher ratio, secondary	18.6	90	
2.2 Tertiary education	18.8	108	
2.2.1 Tertiary enrolment, % gross.....	22.3	84	
2.2.2 Graduates in science & engineering, %	16.8	68	
2.2.3 Tertiary inbound mobility, %.....	0.0	90	○
2.2.4 Gross tertiary outbound enrolment, %	0.5	96	
2.3 Research & development (R&D).....	16.7	94	
2.3.1 Researchers, headcounts/mn pop.	510.8	73	
2.3.2 Gross expenditure on R&D, % GDP.....	0.2	87	
2.3.3 Quality of scientific research institutions†.....	42.5	71	

3 Infrastructure.....	32.5	75	
3.1 Information & communication technologies (ICT).....	28.2	83	
3.1.1 ICT access*.....	43.9	67	
3.1.2 ICT use*	15.7	72	
3.1.3 Government's online service*.....	42.5	88	
3.1.4 E-participation*.....	10.5	93	
3.2 General infrastructure	41.5	41	
3.2.1 Electricity output, kWh/cap.....	953.9	93	
3.2.2 Electricity consumption, kWh/cap.....	904.4	95	
3.2.3 Quality of trade & transport infrastructure*.....	39.0	65	
3.2.4 Gross capital formation, % GDP.....	38.9	6	●
3.3 Ecological sustainability	27.8	83	
3.3.1 GDP/unit of energy use, 2000 PPP\$/kg oil eq.....	4.7	78	
3.3.2 Environmental performance*.....	50.6	76	
3.3.3 ISO 14001 environmental certificates/bn PPP\$ GDP	1.1	59	

4 Market sophistication	44.1	49	
4.1 Credit	58.1	20	●
4.1.1 Ease of getting credit*	77.4	21	
4.1.2 Domestic credit to private sector, % GDP.....	125.0	20	●
4.1.3 Microfinance gross loans, % GDP.....	4.5	10	●

4.2 Investment.....	16.9	95	
4.2.1 Ease of protecting investors*.....	1.4	136	○
4.2.2 Market capitalization, % GDP.....	19.7	77	
4.2.3 Total value of stocks traded, % GDP.....	28.4	32	
4.2.4 Venture capital deals/tr PPP\$ GDP.....	10.0	45	

4.3 Trade & competition	57.3	103	
4.3.1 Applied tariff rate, weighted mean, %.....	5.7	86	
4.3.2 Non-agricultural mkt access weighted tariff, %.....	5.3	136	○
4.3.3 Imports of goods & services, % GDP	87.8	7	●
4.3.4 Exports of goods & services, % GDP	77.5	17	●
4.3.5 Intensity of local competition†	66.2	60	

5 Business sophistication	41.5	56	
5.1 Knowledge workers.....	34.6	106	
5.1.1 Knowledge-intensive employment, %.....	7.4	97	○
5.1.2 Firms offering formal training, % firms.....	43.6	40	
5.1.3 R&D performed by business, %.....	14.5	70	
5.1.4 R&D financed by business, %	18.1	64	
5.1.5 GMAT mean score.....	521.3	58	
5.1.6 GMAT test takers/mn pop. 20–34.....	50.1	79	

5.2 Innovation linkages	43.8	41	
5.2.1 University/industry research collaboration†	40.1	79	
5.2.2 State of cluster development†.....	59.4	18	●
5.2.3 R&D financed by abroad, %.....	6.3	53	
5.2.4 JV-strategic alliance deals/tr PPP\$ GDP	43.1	31	●
5.2.5 PCT patent filings with foreign inventor, %.....	100.0	1	●

5.3 Knowledge absorption	46.2	25	●
5.3.1 Royalty & license fees payments/th GDP.....	n/a	n/a	
5.3.2 High-tech imports less re-imports, %	11.2	41	
5.3.3 Computer & comm. service imports, %.....	n/a	n/a	
5.3.4 FDI net inflows, % GDP.....	7.5	23	●

6 Knowledge & technology outputs	29.4	58	
6.1 Knowledge creation.....	14.2	101	
6.1.1 Domestic resident patent ap/bn PPP\$ GDP	1.1	67	
6.1.2 PCT resident patent ap/bn PPP\$ GDP	0.1	84	
6.1.3 Domestic res utility model ap/bn PPP\$ GDP.....	0.8	36	
6.1.4 Scientific & technical articles/bn PPP\$ GDP.....	1.3	104	

6.2 Knowledge impact	39.7	46	
6.2.1 Growth rate of PPP\$ GDP/worker, %	4.3	27	
6.2.2 New businesses/th pop. 15–64.....	n/a	n/a	
6.2.3 Computer software spending, % GDP.....	0.2	43	
6.2.4 ISO 9001 quality certificates/bn PPP\$ GDP	7.3	57	

6.3 Knowledge diffusion	34.3	43	
6.3.1 Royalty & license fees receipts/th GDP.....	n/a	n/a	
6.3.2 High-tech exports less re-exports, %.....	6.2	34	
6.3.3 Computer & comm. service exports, %	n/a	n/a	
6.3.4 FDI net outflows, % GDP	0.8	44	

7 Creative outputs	32.2	70	
7.1 Creative intangibles.....	34.8	95	
7.1.1 Domestic res trademark reg/bn PPP\$ GDP.....	67.6	23	
7.1.2 Madrid resident trademark reg/bn PPP\$ GDP.....	0.2	45	
7.1.3 ICT & business model creation†.....	49.1	76	
7.1.4 ICT & organizational model creation†.....	54.5	42	

7.2 Creative goods & services	36.0	32	
7.2.1 Recreation & culture consumption, %.....	1.7	88	○
7.2.2 National feature films/mn pop. 15–69.....	0.2	95	○
7.2.3 Paid-for dailies, circulation/th pop. 15–69.....	64.2	75	
7.2.4 Creative goods exports, %	6.5	4	●
7.2.5 Creative services exports, %.....	n/a	n/a	

7.3 Online creativity.....	23.2	62	
7.3.1 Generic top-level domains (TLDs)/th pop. 15–69.....	4.0	64	
7.3.2 Country-code TLDs/th pop. 15–69.....	35.6	49	
7.3.3 Wikipedia monthly edits/mn pop. 15–69.....	378.2	83	
7.3.4 Video uploads on YouTube/pop. 15–69.....	51.1	75	

Key indicators

Population (millions)	25.1
GDP per capita, PPP\$	2,520.7
GDP (US\$ billions)	36.7

	Score (0–100) or value (hard data)	Rank
Global Innovation Index 2012 (out of 141)	19.2	139 ○
Innovation Output Sub-Index	13.1	138
Innovation Input Sub-Index	25.2	138
Innovation Efficiency Index	0.5	132
Global Innovation Index 2011 (out of 125)	123	
GII 2012 rank among GII 2011 economies (125)	123	

1	Institutions	34.9	130
1.1	Political environment	16.8	140 ○
1.1.1	Political stability*.....	11.6	139 ○
1.1.2	Government effectiveness*.....	13.8	133
1.1.3	Press freedom*.....	25.0	135
1.2	Regulatory environment.....	44.9	124
1.2.1	Regulatory quality*.....	36.5	115
1.2.2	Rule of law*.....	19.9	128
1.2.3	Cost of redundancy dismissal, salary weeks.....	27.4	117
1.3	Business environment	42.9	88
1.3.1	Ease of starting a business*.....	69.7	43 ●
1.3.2	Ease of resolving insolvency*.....	38.8	86
1.3.3	Ease of paying taxes*.....	20.1	112
2	Human capital & research	28.3	98
2.1	Education.....	58.2	46 ●
2.1.1	Current expenditure on education, % GNI	4.2	69
2.1.2	Public expenditure/pupil, % GDP/cap.....	42.9	3 ●
2.1.3	School life expectancy, years.....	8.7	125
2.1.4	PISA scales in reading, maths, & science.....	n/a	n/a
2.1.5	Pupil-teacher ratio, secondary	11.7	42 ●
2.2	Tertiary education	15.5	117
2.2.1	Tertiary enrolment, % gross.....	10.2	105
2.2.2	Graduates in science & engineering, %	n/a	n/a
2.2.3	Tertiary inbound mobility, %.....	2.7	47 ●
2.2.4	Gross tertiary outbound enrolment, %	0.3	110
2.3	Research & development (R&D).....	11.3	123
2.3.1	Researchers, headcounts/mn pop.	n/a	n/a
2.3.2	Gross expenditure on R&D, % GDP.....	n/a	n/a
2.3.3	Quality of scientific research institutions†.....	11.3	132 ○
3	Infrastructure	18.1	132
3.1	Information & communication technologies (ICT).....	10.2	137
3.1.1	ICT access*.....	19.3	119
3.1.2	ICT use*.....	3.8	114
3.1.3	Government's online service*.....	17.7	136
3.1.4	E-participation*.....	0.0	127 ○
3.2	General infrastructure	28.4	111
3.2.1	Electricity output, kWh/cap.....	284.7	110
3.2.2	Electricity consumption, kWh/cap.....	216.5	112
3.2.3	Quality of trade & transport infrastructure*.....	33.8	88
3.2.4	Gross capital formation, % GDP.....	24.4	49 ●
3.3	Ecological sustainability	15.7	121
3.3.1	GDP/unit of energy use, 2000 PPP\$/kg oil eq.....	2.8	104
3.3.2	Environmental performance*.....	35.5	119
3.3.3	ISO 14001 environmental certificates/bn PPP\$ GDP.....	0.0	134 ○
4	Market sophistication	26.1	124
4.1	Credit	3.8	134
4.1.1	Ease of getting credit*.....	10.9	120
4.1.2	Domestic credit to private sector, % GDP.....	7.4	140 ○
4.1.3	Microfinance gross loans, % GDP.....	0.0	75

4.2	Investment.....	7.9	116
4.2.1	Ease of protecting investors*.....	15.8	110
4.2.2	Market capitalization, % GDP.....	n/a	n/a
4.2.3	Total value of stocks traded, % GDP.....	n/a	n/a
4.2.4	Venture capital deals/tr PPP\$ GDP.....	0.0	65 ○
4.3	Trade & competition	66.6	53 ●
4.3.1	Applied tariff rate, weighted mean, %.....	4.2	72
4.3.2	Non-agricultural mkt access weighted tariff, %.....	0.1	27 ●
4.3.3	Imports of goods & services, % GDP.....	41.4	68 ●
4.3.4	Exports of goods & services, % GDP.....	38.0	71
4.3.5	Intensity of local competition†.....	62.3	73
5	Business sophistication	18.7	141 ○
5.1	Knowledge workers.....	17.8	138
5.1.1	Knowledge-intensive employment, %.....	17.0	82
5.1.2	Firms offering formal training, % firms.....	12.9	99
5.1.3	R&D performed by business, %.....	n/a	n/a
5.1.4	R&D financed by business, %	n/a	n/a
5.1.5	GMAT mean score.....	367.0	138 ○
5.1.6	GMAT test takers/mn pop. 20–34.....	4.0	135
5.2	Innovation linkages	12.5	139 ○
5.2.1	University/industry research collaboration†.....	8.4	133 ○
5.2.2	State of cluster development†.....	22.0	128
5.2.3	R&D financed by abroad, %.....	n/a	n/a
5.2.4	JV–strategic alliance deals/tr PPP\$ GDP.....	3.2	110
5.2.5	PCT patent filings with foreign inventor, %.....	n/a	n/a
5.3	Knowledge absorption	25.7	123
5.3.1	Royalty & license fees payments/th GDP.....	0.2	107
5.3.2	High-tech imports less re-imports, %.....	3.8	118
5.3.3	Computer & comm. service imports, %.....	34.7	59 ●
5.3.4	FDI net inflows, % GDP.....	0.5	122
6	Knowledge & technology outputs	14.7	131
6.1	Knowledge creation.....	1.2	140 ○
6.1.1	Domestic resident patent ap/bn PPP\$ GDP.....	0.3	90
6.1.2	PCT resident patent ap/bn PPP\$ GDP.....	n/a	n/a
6.1.3	Domestic res utility model ap/bn PPP\$ GDP.....	n/a	n/a
6.1.4	Scientific & technical articles/bn PPP\$ GDP.....	0.4	132
6.2	Knowledge impact	33.7	68 ●
6.2.1	Growth rate of PPP\$ GDP/worker, %.....	4.2	29 ●
6.2.2	New businesses/th pop. 15–64.....	n/a	n/a
6.2.3	Computer software spending, % GDP.....	n/a	n/a
6.2.4	ISO 9001 quality certificates/bn PPP\$ GDP.....	0.3	129
6.3	Knowledge diffusion	9.4	129
6.3.1	Royalty & license fees receipts/th GDP.....	1.3	27 ●
6.3.2	High-tech exports less re-exports, %.....	0.0	120 ○
6.3.3	Computer & comm. service exports, %	12.9	111
6.3.4	FDI net outflows, % GDP.....	n/a	n/a
7	Creative outputs	11.5	137
7.1	Creative intangibles.....	18.5	133
7.1.1	Domestic res trademark reg/bn PPP\$ GDP.....	28.3	54
7.1.2	Madrid resident trademark reg/bn PPP\$ GDP.....	n/a	n/a
7.1.3	ICT & business model creation†.....	25.9	130
7.1.4	ICT & organizational model creation†.....	16.4	133 ○
7.2	Creative goods & services	0.8	138
7.2.1	Recreation & culture consumption, %.....	0.3	100 ○
7.2.2	National feature films/mn pop. 15–69.....	n/a	n/a
7.2.3	Paid-for dailies, circulation/th pop. 15–69.....	13.5	112
7.2.4	Creative goods exports, %.....	0.1	118
7.2.5	Creative services exports, %.....	n/a	n/a
7.3	Online creativity.....	8.2	118
7.3.1	Generic top-level domains (TLDs)/th pop. 15–69.....	0.2	124
7.3.2	Country-code TLDs/th pop. 15–69.....	0.8	127
7.3.3	Wikipedia monthly edits/mn pop. 15–69.....	44.6	107
7.3.4	Video uploads on YouTube/pop. 15–69.....	31.4	109

Key indicators

Population (millions)	13.6
GDP per capita, PPP\$	1,612.9
GDP (US\$ billions)	18.4

	Score (0–100) or value (hard data)	Rank
Global Innovation Index 2012 (out of 141).....	26.4	107
Innovation Output Sub-Index	24.0	96
Innovation Input Sub-Index	28.9	122
Innovation Efficiency Index	0.8	34 ●
Global Innovation Index 2011 (out of 125)	114	
GII 2012 rank among GII 2011 economies (125)	100	

1	Institutions.....	47.2	97
1.1	Political environment	56.6	70
1.1.1	Political stability*.....	76.9	42 ●
1.1.2	Government effectiveness*.....	19.9	120
1.1.3	Press freedom*.....	73.0	69
1.2	Regulatory environment.....	26.3	135 ○
1.2.1	Regulatory quality*.....	39.2	107
1.2.2	Rule of law*.....	34.7	89
1.2.3	Cost of redundancy dismissal, salary weeks.....	50.6	135 ○
1.3	Business environment	58.7	50 ●
1.3.1	Ease of starting a business*.....	67.6	46 ●
1.3.2	Ease of resolving insolvency*.....	33.8	93
1.3.3	Ease of paying taxes*.....	74.8	36 ●
2	Human capital & research.....	17.0	133
2.1	Education.....	29.9	124
2.1.1	Current expenditure on education, % GNI	1.3	135 ○
2.1.2	Public expenditure/pupil, % GDP/cap.....	n/a	n/a
2.1.3	School life expectancy, years.....	n/a	n/a
2.1.4	PISA scales in reading, maths, & science.....	n/a	n/a
2.1.5	Pupil-teacher ratio, secondary	23.2	105
2.2	Tertiary education	3.9	138 ○
2.2.1	Tertiary enrolment, % gross.....	n/a	n/a
2.2.2	Graduates in science & engineering, %	n/a	n/a
2.2.3	Tertiary inbound mobility, %.....	n/a	n/a
2.2.4	Gross tertiary outbound enrolment, %	0.4	105
2.3	Research & development (R&D).....	17.1	91
2.3.1	Researchers, headcounts/mn pop.	49.4	114 ○
2.3.2	Gross expenditure on R&D, % GDP.....	0.3	70
2.3.3	Quality of scientific research institutions†.....	43.6	68
3	Infrastructure.....	19.3	129
3.1	Information & communication technologies (ICT).....	12.9	127
3.1.1	ICT access*.....	15.4	136 ○
3.1.2	ICT use*	2.3	126
3.1.3	Government's online service*.....	31.4	113
3.1.4	E-participation*.....	2.6	115
3.2	General infrastructure	23.4	128
3.2.1	Electricity output, kWh/cap.....	796.9	97
3.2.2	Electricity consumption, kWh/cap.....	624.7	99
3.2.3	Quality of trade & transport infrastructure*.....	20.8	130
3.2.4	Gross capital formation, % GDP.....	22.4	70
3.3	Ecological sustainability	21.6	104
3.3.1	GDP/unit of energy use, 2000 PPP\$/kg oil eq.....	1.7	119 ○
3.3.2	Environmental performance*.....	55.6	55
3.3.3	ISO 14001 environmental certificates/bn PPP\$ GDP	0.6	75
4	Market sophistication	36.2	81
4.1	Credit	29.8	73
4.1.1	Ease of getting credit*	87.6	8 ●
4.1.2	Domestic credit to private sector, % GDP.....	11.5	137 ○
4.1.3	Microfinance gross loans, % GDP.....	0.0	77

4.2	Investment.....	13.3	105
4.2.1	Ease of protecting investors*.....	46.7	60
4.2.2	Market capitalization, % GDP.....	17.4	82
4.2.3	Total value of stocks traded, % GDP.....	0.8	75
4.2.4	Venture capital deals/tr PPP\$ GDP.....	0.0	65 ○
4.3	Trade & competition	65.6	60
4.3.1	Applied tariff rate, weighted mean, %.....	3.8	65
4.3.2	Non-agricultural mkt access weighted tariff, %.....	0.7	61
4.3.3	Imports of goods & services, % GDP.....	35.0	90
4.3.4	Exports of goods & services, % GDP.....	44.1	53 ●
4.3.5	Intensity of local competition†	62.7	70
5	Business sophistication	24.8	135 ○
5.1	Knowledge workers.....	20.3	135 ○
5.1.1	Knowledge-intensive employment, %.....	n/a	n/a
5.1.2	Firms offering formal training, % firms.....	26.0	72
5.1.3	R&D performed by business, %.....	2.0	84
5.1.4	R&D financed by business, %	3.2	82
5.1.5	GMAT mean score.....	409.9	124
5.1.6	GMAT test takers/mn pop. 20–34.....	16.2	118
5.2	Innovation linkages	28.7	105
5.2.1	University/industry research collaboration†	45.8	56 ●
5.2.2	State of cluster development†	43.4	59
5.2.3	R&D financed by abroad, %.....	1.6	77
5.2.4	JV–strategic alliance deals/tr PPP\$ GDP	27.4	51 ●
5.2.5	PCT patent filings with foreign inventor, %.....	n/a	n/a
5.3	Knowledge absorption	25.5	125
5.3.1	Royalty & license fees payments/th GDP.....	0.0	114 ○
5.3.2	High-tech imports less re-imports, %	4.5	111
5.3.3	Computer & comm. service imports, %.....	26.0	80
5.3.4	FDI net inflows, % GDP.....	6.4	30 ●
6	Knowledge & technology outputs	22.1	95
6.1	Knowledge creation.....	16.0	92
6.1.1	Domestic resident patent ap/bn PPP\$ GDP	0.6	76
6.1.2	PCT resident patent ap/bn PPP\$ GDP.....	0.0	90
6.1.3	Domestic res utility model ap/bn PPP\$ GDP.....	n/a	n/a
6.1.4	Scientific & technical articles/bn PPP\$ GDP.....	1.9	83
6.2	Knowledge impact	29.3	86
6.2.1	Growth rate of PPP\$ GDP/worker, %	3.7	37 ●
6.2.2	New businesses/th pop. 15–64.....	0.9	64
6.2.3	Computer software spending, % GDP.....	n/a	n/a
6.2.4	ISO 9001 quality certificates/bn PPP\$ GDP	1.4	106
6.3	Knowledge diffusion	21.2	100
6.3.1	Royalty & license fees receipts/th GDP.....	n/a	n/a
6.3.2	High-tech exports less re-exports, %.....	0.1	113
6.3.3	Computer & comm. service exports, %	9.2	118
6.3.4	FDI net outflows, % GDP	1.8	25 ●
7	Creative outputs	25.8	97
7.1	Creative intangibles.....	48.7	32 ●
7.1.1	Domestic res trademark reg/bn PPP\$ GDP.....	n/a	n/a
7.1.2	Madrid resident trademark reg/bn PPP\$ GDP.....	n/a	n/a
7.1.3	ICT & business model creation†	46.2	85
7.1.4	ICT & organizational model creation†	51.2	58
7.2	Creative goods & services	0.9	137 ○
7.2.1	Recreation & culture consumption, %.....	n/a	n/a
7.2.2	National feature films/mn pop. 15–69.....	n/a	n/a
7.2.3	Paid-for dailies, circulation/th pop. 15–69.....	12.1	113
7.2.4	Creative goods exports, %.....	0.0	124
7.2.5	Creative services exports, %.....	n/a	n/a
7.3	Online creativity.....	4.9	130
7.3.1	Generic top-level domains (TLDs)/th pop. 15–69.....	0.0	137 ○
7.3.2	Country-code TLDs/th pop. 15–69.....	0.1	137 ○
7.3.3	Wikipedia monthly edits/mn pop. 15–69.....	24.5	115
7.3.4	Video uploads on YouTube/pop. 15–69.....	19.3	120

Key indicators

Population (millions)	12.6
GDP per capita, PPP\$	471.7
GDP (US\$ billions)	9.2

	Score (0–100) or value (hard data)	Rank
Global Innovation Index 2012 (out of 141).....	25.7	115
Innovation Output Sub-Index	24.4	92
Innovation Input Sub-Index	27.0	130
Innovation Efficiency Index	0.9	13 ●
Global Innovation Index 2011 (out of 125)	119	
GII 2012 rank among GII 2011 economies (125)	106	

1 Institutions..... 15.4 141 ○**1.1 Political environment 30.7 134**

1.1.1 Political stability*.....	36.1	123
1.1.2 Government effectiveness*.....	0.0	141 ○
1.1.3 Press freedom*.....	56.1	92

1.2 Regulatory environment..... 0.0 141 ○

1.2.1 Regulatory quality*.....	0.0	141 ○
1.2.2 Rule of law*.....	0.0	141 ○
1.2.3 Cost of redundancy dismissal, salary weeks.....	82.3	137 ○

1.3 Business environment 15.5 131

1.3.1 Ease of starting a business*.....	16.5	117
1.3.2 Ease of resolving insolvency*.....	1.4	138 ○
1.3.3 Ease of paying taxes*.....	28.7	100

2 Human capital & research..... 33.5 71**2.1 Education..... 38.2 112**

2.1.1 Current expenditure on education, % GNI	2.5	118
2.1.2 Public expenditure/pupil, % GDP/cap.....	n/a	n/a
2.1.3 School life expectancy, years.....	n/a	n/a
2.1.4 PISA scales in reading, maths, & science.....	n/a	n/a
2.1.5 Pupil-teacher ratio, secondary	22.3	101

2.2 Tertiary education 28.7 80

2.2.1 Tertiary enrolment, % gross.....	6.2	115
2.2.2 Graduates in science & engineering, %	24.8	27 ●
2.2.3 Tertiary inbound mobility, %.....	0.9	73
2.2.4 Gross tertiary outbound enrolment, %	1.3	64

2.3 Research & development (R&D)..... 33.6 37 ●

2.3.1 Researchers, headcounts/mn pop.	n/a	n/a
2.3.2 Gross expenditure on R&D, % GDP.....	n/a	n/a
2.3.3 Quality of scientific research institutions†	33.6	102

3 Infrastructure..... 15.4 139 ○**3.1 Information & communication technologies (ICT) 9.5 138**

3.1.1 ICT access*.....	18.6	125
3.1.2 ICT use*.....	4.2	113
3.1.3 Government's online service*.....	12.7	140 ○
3.1.4 E-participation*.....	2.6	115

3.2 General infrastructure 8.6 141 ○

3.2.1 Electricity output, kWh/cap.....	626.5	103
3.2.2 Electricity consumption, kWh/cap.....	1,022.2	91
3.2.3 Quality of trade & transport infrastructure*.....	21.8	129
3.2.4 Gross capital formation, % GDP.....	0.5	140 ○

3.3 Ecological sustainability 27.9 82

3.3.1 GDP/unit of energy use, 2000 PPP\$/kg oil eq.....	2.1	114
3.3.2 Environmental performance*.....	52.8	66
3.3.3 ISO 14001 environmental certificates/bn PPP\$ GDP.....	3.1	30 ●

4 Market sophistication 27.9 118**4.1 Credit 11.5 117**

4.1.1 Ease of getting credit*.....	21.1	104
4.1.2 Domestic credit to private sector, % GDP.....	44.5	76
4.1.3 Microfinance gross loans, % GDP.....	0.0	86

4.2 Investment..... 21.7 78

4.2.1 Ease of protecting investors*.....	22.3	100
4.2.2 Market capitalization, % GDP.....	153.6	8 ●
4.2.3 Total value of stocks traded, % GDP.....	15.3	41 ●
4.2.4 Venture capital deals/tr PPP\$ GDP.....	0.0	65 ○

4.3 Trade & competition 50.4 123

4.3.1 Applied tariff rate, weighted mean, %.....	17.3	140 ○
4.3.2 Non-agricultural mkt access weighted tariff, %.....	0.2	28 ●
4.3.3 Imports of goods & services, % GDP.....	56.4	40 ●
4.3.4 Exports of goods & services, % GDP.....	37.3	72
4.3.5 Intensity of local competition†	58.5	90

5 Business sophistication 43.0 50 ●**5.1 Knowledge workers..... 52.8 47 ●**

5.1.1 Knowledge-intensive employment, %.....	n/a	n/a
5.1.2 Firms offering formal training, % firms.....	n/a	n/a
5.1.3 R&D performed by business, %.....	n/a	n/a
5.1.4 R&D financed by business, %.....	n/a	n/a
5.1.5 GMAT mean score.....	489.9	80
5.1.6 GMAT test takers/mn pop. 20–34.....	41.2	92

5.2 Innovation linkages 46.0 33 ●

5.2.1 University/industry research collaboration†	36.6	98
5.2.2 State of cluster development†	27.3	118
5.2.3 R&D financed by abroad, %.....	n/a	n/a
5.2.4 JV–strategic alliance deals/tr PPP\$ GDP.....	168.6	1 ●
5.2.5 PCT patent filings with foreign inventor, %.....	50.0	48

5.3 Knowledge absorption 30.3 92

5.3.1 Royalty & license fees payments/th GDP.....	n/a	n/a
5.3.2 High-tech imports less re-imports, %.....	4.5	112
5.3.3 Computer & comm. service imports, %.....	n/a	n/a
5.3.4 FDI net inflows, % GDP.....	1.4	95

6 Knowledge & technology outputs 26.2 70**6.1 Knowledge creation..... 34.1 41 ●**

6.1.1 Domestic resident patent ap/bn PPP\$ GDP.....	n/a	n/a
6.1.2 PCT resident patent ap/bn PPP\$ GDP.....	0.3	46
6.1.3 Domestic res utility model ap/bn PPP\$ GDP.....	0.4	38
6.1.4 Scientific & technical articles/bn PPP\$ GDP.....	11.3	32 ●

6.2 Knowledge impact 43.7 35 ●

6.2.1 Growth rate of PPP\$ GDP/worker, %.....	5.5	15 ●
6.2.2 New businesses/th pop. 15–64.....	n/a	n/a
6.2.3 Computer software spending, % GDP.....	0.0	74 ○
6.2.4 ISO 9001 quality certificates/bn PPP\$ GDP.....	17.0	30 ●

6.3 Knowledge diffusion 0.8 137 ○

6.3.1 Royalty & license fees receipts/th GDP.....	n/a	n/a
6.3.2 High-tech exports less re-exports, %.....	0.3	96
6.3.3 Computer & comm. service exports, %.....	n/a	n/a
6.3.4 FDI net outflows, % GDP.....	n/a	n/a

7 Creative outputs 22.7 112**7.1 Creative intangibles..... 36.6 86**

7.1.1 Domestic res trademark reg/bn PPP\$ GDP.....	n/a	n/a
7.1.2 Madrid resident trademark reg/bn PPP\$ GDP.....	n/a	n/a
7.1.3 ICT & business model creation†	36.1	122
7.1.4 ICT & organizational model creation†	37.0	106

7.2 Creative goods & services 9.0 106

7.2.1 Recreation & culture consumption, %.....	n/a	n/a
7.2.2 National feature films/mn pop. 15–69.....	n/a	n/a
7.2.3 Paid-for dailies, circulation/th pop. 15–69.....	5.5	122
7.2.4 Creative goods exports, %.....	0.9	74
7.2.5 Creative services exports, %.....	n/a	n/a

7.3 Online creativity..... 8.6 116

7.3.1 Generic top-level domains (TLDs)/th pop. 15–69.....	0.2	128
7.3.2 Country-code TLDs/th pop. 15–69.....	1.3	122
7.3.3 Wikipedia monthly edits/mn pop. 15–69.....	11.3	123
7.3.4 Video uploads on YouTube/pop. 15–69.....	32.7	107