

Output rank	Input rank	Income	Region	Population (mn)	GDP, PPP\$	GDP per capita, PPP\$	GII 2018 rank
15	1	High	SEAO	5.8	556.2	100,344.7	5
				Score/Value	Rank		
INSTITUTIONS				94.9	1	◆◆	
1.1	Political environment		100.0	1	◆◆		
1.1.1	Political and operational stability*		100.0	1	◆◆		
1.1.2	Government effectiveness*		100.0	1	◆◆		
1.2	Regulatory environment		98.3	2	●		
1.2.1	Regulatory quality*		98.7	2	◆◆		
1.2.2	Rule of law*		94.6	8			
1.2.3	Cost of redundancy dismissal, salary weeks.....		8.0	1	●		
1.3	Business environment		86.3	17			
1.3.1	Ease of starting a business*		98.2	3	◆◆		
1.3.2	Ease of resolving insolvency*		74.3	25			
HUMAN CAPITAL & RESEARCH				63.0	5	◆	
2.1	Education		50.3	57	○◆		
2.1.1	Expenditure on education, % GDP.....		2.9	104	○◆		
2.1.2	Government funding/pupil, secondary, % GDP/cap.....		16.7	73	○◆		
2.1.3	School life expectancy, years.....		16.3	26			
2.1.4	PISA scales in reading, maths, & science.....		551.6	1	◆◆		
2.1.5	Pupil-teacher ratio, secondary.....		11.7	47	○		
2.2	Tertiary education		77.1	1	◆◆		
2.2.1	Tertiary enrolment, % gross.....		83.9	13			
2.2.2	Graduates in science & engineering, %.....		34.5	5	◆		
2.2.3	Tertiary inbound mobility, %.....		27.2	1	◆◆		
2.3	Research & development (R&D)		61.6	13			
2.3.1	Researchers, FTE/mn pop.....		6,729.7	5			
2.3.2	Gross expenditure on R&D, % GDP.....		2.2	13			
2.3.3	Global R&D companies, avg. exp. top 3, mn US\$.....		48.8	30			
2.3.4	QS university ranking, average score top 3*.....		68.9	12			
INFRASTRUCTURE				65.4	7		
3.1	Information & communication technologies (ICTs)		89.6	11			
3.1.1	ICT access*.....		87.2	9			
3.1.2	ICT use*.....		75.8	26			
3.1.3	Government's online service*.....		98.6	2	●		
3.1.4	E-participation*.....		96.6	13			
3.2	General infrastructure		54.7	11			
3.2.1	Electricity output, kWh/mn pop.....		9,209.8	17			
3.2.2	Logistics performance*.....		90.4	7			
3.2.3	Gross capital formation, % GDP.....		27.8	30			
3.3	Ecological sustainability		52.1	22			
3.3.1	GDP/unit of energy use.....		16.4	9			
3.3.2	Environmental performance*.....		64.2	45	○◆		
3.3.3	ISO 14001 environmental certificates/bn PPP\$ GDP.....		2.4	43			
MARKET SOPHISTICATION				73.6	5	◆	
4.1	Credit		68.4	13			
4.1.1	Ease of getting credit*.....		75.0	29			
4.1.2	Domestic credit to private sector, % GDP.....		128.2	17			
4.1.3	Microfinance gross loans, % GDP.....		n/a	n/a			
4.2	Investment		76.7	5	◆		
4.2.1	Ease of protecting minority investors*.....		80.0	6	◆◆		
4.2.2	Market capitalization, % GDP.....		220.1	4	◆◆		
4.2.3	Venture capital deals/bn PPP\$ GDP.....		0.2	7			
4.3	Trade, competition, & market scale		75.6	19			
4.3.1	Applied tariff rate, weighted avg., %.....		0.1	3	◆◆		
4.3.2	Intensity of local competition*.....		78.4	15			
4.3.3	Domestic market scale, bn PPP\$.....		556.2	35			
BUSINESS SOPHISTICATION				63.9	4	◆◆	
5.1	Knowledge workers		71.0	9			
5.1.1	Knowledge-intensive employment, %.....		56.1	1	◆◆		
5.1.2	Firms offering formal training, % firms.....		n/a	n/a			
5.1.3	GERD performed by business, % GDP.....		1.3	16			
5.1.4	GERD financed by business, %.....		54.1	19			
5.1.5	Females employed w/advanced degrees, %.....		17.1	36	◇		
5.2	Innovation linkages		49.3	14			
5.2.1	University/industry research collaboration*.....		70.0	10			
5.2.2	State of cluster development*.....		68.6	11			
5.2.3	GERD financed by abroad, %.....		6.8	54	○		
5.2.4	JV-strategic alliance deals/bn PPP\$ GDP.....		0.2	1	◆◆		
5.2.5	Patent families 2+ offices/bn PPP\$ GDP.....		2.2	18			
5.3	Knowledge absorption		71.3	1	◆◆		
5.3.1	Intellectual property payments, % total trade.....		3.3	5	◆◆		
5.3.2	High-tech imports, % total trade.....		21.2	7	◆◆		
5.3.3	ICT services imports, % total trade.....		2.7	11			
5.3.4	FDI net inflows, % GDP.....		22.3	8	◆◆		
5.3.5	Research talent, % in business enterprise.....		50.5	24			
KNOWLEDGE & TECHNOLOGY OUTPUTS				50.9	11		
6.1	Knowledge creation		33.4	27	◇		
6.1.1	Patents by origin/bn PPP\$ GDP.....		3.0	33	◇		
6.1.2	PCT patents by origin/bn PPP\$ GDP.....		1.7	20			
6.1.3	Utility models by origin/bn PPP\$ GDP.....		n/a	n/a			
6.1.4	Scientific & technical articles/bn PPP\$ GDP.....		17.5	28			
6.1.5	Citable documents H-index.....		36.5	23			
6.2	Knowledge impact		53.9	11			
6.2.1	Growth rate of PPP\$ GDP/worker, %.....		2.5	33			
6.2.2	New businesses/th pop. 15-64.....		8.6	16			
6.2.3	Computer software spending, % GDP.....		0.3	41			
6.2.4	ISO 9001 quality certificates/bn PPP\$ GDP.....		7.0	46	○		
6.2.5	High- & medium-high-tech manufactures, %.....		0.8	1	◆◆		
6.3	Knowledge diffusion		65.2	5	◆		
6.3.1	Intellectual property receipts, % total trade.....		1.6	15			
6.3.2	High-tech net exports, % total trade.....		27.4	1	◆◆		
6.3.3	ICT services exports, % total trade.....		2.4	44			
6.3.4	FDI net outflows, % GDP.....		9.0	8	◆		
CREATIVE OUTPUTS				38.3	34	◇	
7.1	Intangible assets		47.3	46	○◆		
7.1.1	Trademarks by origin/bn PPP\$ GDP.....		20.1	88	○◆		
7.1.2	Industrial designs by origin/bn PPP\$ GDP.....		1.1	62	○		
7.1.3	ICTs & business model creation*.....		80.4	7			
7.1.4	ICTs & organizational model creation*.....		74.6	14			
7.2	Creative goods & services		32.2	20			
7.2.1	Cultural & creative services exports, % total trade.....		1.9	8			
7.2.2	National feature films/mn pop. 15-69.....		2.9	57	○		
7.2.3	Entertainment & Media market/th pop. 15-69.....		42.3	20			
7.2.4	Printing & other media, % manufacturing.....		0.7	80	○		
7.2.5	Creative goods exports, % total trade.....		4.4	11			
7.3	Online creativity		26.4	28			
7.3.1	Generic top-level domains (TLDs)/th pop. 15-69.....		25.6	23			
7.3.2	Country-code TLDs/th pop. 15-69.....		11.2	38	◇		
7.3.3	Wikipedia edits/mn pop. 15-69.....		23.8	45	○◆		
7.3.4	Mobile app creation/bn PPP\$ GDP.....		52.9	10			

NOTES: ● indicates a strength; ○ a weakness; ◆ a strength relative to the other top 25-ranked GII economies; ◇ a weakness relative to the other top 25-ranked GII economies; * an index; † a survey question. ⊙ indicates that the economy's data are older than the base year; see Appendix II for details, including the year of the data, at <http://globalinnovationindex.org>. Square brackets [] indicate that the data minimum coverage (DMC) requirements were not met at the sub-pillar or pillar level.