

Output rank	Input rank	Income	Region	Population (mn)	GDP, PPP\$	GDP per capita, PPP\$	GII 2018 rank
120	35	High	SEAO	0.4	35.5	79,529.9	67
				Score/Value	Rank		
INSTITUTIONS				78.9	27		
1.1	Political environment		80.5	21			
1.1.1	Political and operational stability*.....		93.0	7	◆		
1.1.2	Government effectiveness*.....		74.3	26	●		
1.2	Regulatory environment		81.2	27			
1.2.1	Regulatory quality*.....		61.1	38			
1.2.2	Rule of law*.....		63.5	37			
1.2.3	Cost of redundancy dismissal, salary weeks.....		8.0	1	◆		
1.3	Business environment		75.0	45			
1.3.1	Ease of starting a business*.....		94.9	14	●		
1.3.2	Ease of resolving insolvency*.....		55.1	59			
HUMAN CAPITAL & RESEARCH				33.3	55	◇	
2.1	Education		50.2	58			
2.1.1	Expenditure on education, % GDP.....		4.4	63			
2.1.2	Government funding/pupil, secondary, % GDP/cap... ..		23.8	30			
2.1.3	School life expectancy, years.....		14.4	64	◇		
2.1.4	PISA scales in reading, maths, & science.....		n/a	n/a			
2.1.5	Pupil-teacher ratio, secondary.....		8.7	13	●		
2.2	Tertiary education		39.8	39			
2.2.1	Tertiary enrolment, % gross.....		32.9	79	◇		
2.2.2	Graduates in science & engineering, %.....		30.5	11	◆		
2.2.3	Tertiary inbound mobility, %.....		3.8	56			
2.3	Research & development (R&D)		9.8	[57]			
2.3.1	Researchers, FTE/mn pop.....		n/a	n/a			
2.3.2	Gross expenditure on R&D, % GDP.....		n/a	n/a			
2.3.3	Global R&D companies, avg. exp. top 3, mn US\$.....		0.0	43	◇		
2.3.4	QS university ranking, average score top 3*.....		19.6	53			
INFRASTRUCTURE				50.4	52	◇	
3.1	Information & communication technologies (ICTs)		69.9	58	◇		
3.1.1	ICT access*.....		76.6	39			
3.1.2	ICT use*.....		70.3	33			
3.1.3	Government's online service*.....		72.2	67	◇		
3.1.4	E-participation*.....		60.7	92	◇		
3.2	General infrastructure		41.9	41			
3.2.1	Electricity output, kWh/mn pop.....		10,166.7	14	●		
3.2.2	Logistics performance*.....		30.1	79	◇		
3.2.3	Gross capital formation, % GDP.....		29.1	23	◆		
3.3	Ecological sustainability		39.3	60			
3.3.1	GDP/unit of energy use.....		10.1	49			
3.3.2	Environmental performance*.....		63.6	48			
3.3.3	ISO 14001 environmental certificates/bn PPP\$ GDP..		0.8	71	◇		
MARKET SOPHISTICATION				60.1	17	●	
4.1	Credit		58.5	20	●		
4.1.1	Ease of getting credit*.....		100.0	1	◆		
4.1.2	Domestic credit to private sector, % GDP.....		39.5	84	◇		
4.1.3	Microfinance gross loans, % GDP.....		n/a	n/a			
4.2	Investment		65.0	[15]			
4.2.1	Ease of protecting minority investors*.....		65.0	45			
4.2.2	Market capitalization, % GDP.....		n/a	n/a			
4.2.3	Venture capital deals/bn PPP\$ GDP.....		n/a	n/a			
4.3	Trade, competition, & market scale		56.7	84	◇		
4.3.1	Applied tariff rate, weighted avg., %.....		0.0	2	◆		
4.3.2	Intensity of local competition*.....		61.2	104	◇		
4.3.3	Domestic market scale, bn PPP\$.....		35.5	110	◇		
BUSINESS SOPHISTICATION				36.0	45		
5.1	Knowledge workers		60.1	[24]			
5.1.1	Knowledge-intensive employment, %.....		40.6	26			
5.1.2	Firms offering formal training, % firms.....		n/a	n/a			
5.1.3	GERD performed by business, % GDP.....		n/a	n/a			
5.1.4	GERD financed by business, %.....		n/a	n/a			
5.1.5	Females employed w/advanced degrees, %.....		12.0	59	◇		
5.2	Innovation linkages		21.7	76	◇		
5.2.1	University/industry research collaboration*.....		37.3	86	◇		
5.2.2	State of cluster development*.....		41.5	87	◇		
5.2.3	GERD financed by abroad, %.....		n/a	n/a			
5.2.4	JV-strategic alliance deals/bn PPP\$ GDP.....		0.0	60			
5.2.5	Patent families 2+ offices/bn PPP\$ GDP.....		0.0	93	◇		
5.3	Knowledge absorption		26.3	97	◇		
5.3.1	Intellectual property payments, % total trade.....		0.5	68			
5.3.2	High-tech imports, % total trade.....		6.1	92			
5.3.3	ICT services imports, % total trade.....		0.8	86			
5.3.4	FDI net inflows, % GDP.....		1.3	99			
5.3.5	Research talent, % in business enterprise.....		n/a	n/a			
KNOWLEDGE & TECHNOLOGY OUTPUTS				8.9	120	◇	
6.1	Knowledge creation		2.7	117	◇		
6.1.1	Patents by origin/bn PPP\$ GDP.....		0.2	92			
6.1.2	PCT patents by origin/bn PPP\$ GDP.....		0.0	83	◇		
6.1.3	Utility models by origin/bn PPP\$ GDP.....		n/a	n/a			
6.1.4	Scientific & technical articles/bn PPP\$ GDP.....		3.1	102	◇		
6.1.5	Citable documents H-index.....		1.9	119	◇		
6.2	Knowledge impact		6.2	[119]			
6.2.1	Growth rate of PPP\$ GDP/worker, %.....		n/a	n/a			
6.2.2	New businesses/th pop. 15-64.....		2.5	44			
6.2.3	Computer software spending, % GDP.....		n/a	n/a			
6.2.4	ISO 9001 quality certificates/bn PPP\$ GDP.....		3.2	76			
6.2.5	High- & medium-high-tech manufactures, %.....		0.0	101	◇		
6.3	Knowledge diffusion		17.7	62			
6.3.1	Intellectual property receipts, % total trade.....		n/a	n/a			
6.3.2	High-tech net exports, % total trade.....		3.1	44			
6.3.3	ICT services exports, % total trade.....		0.0	128	◇		
6.3.4	FDI net outflows, % GDP.....		1.6	39			
CREATIVE OUTPUTS				17.0	107	◇	
7.1	Intangible assets		30.4	105	◇		
7.1.1	Trademarks by origin/bn PPP\$ GDP.....		5.2	116	◇		
7.1.2	Industrial designs by origin/bn PPP\$ GDP.....		0.0	117	◇		
7.1.3	ICTs & business model creation*.....		58.0	74	◇		
7.1.4	ICTs & organizational model creation*.....		47.5	89	◇		
7.2	Creative goods & services		3.3	[109]			
7.2.1	Cultural & creative services exports, % total trade.....		0.0	119	◇		
7.2.2	National feature films/mn pop. 15-69.....		n/a	n/a			
7.2.3	Entertainment & Media market/th pop. 15-69.....		n/a	n/a			
7.2.4	Printing & other media, % manufacturing.....		0.5	93	◇		
7.2.5	Creative goods exports, % total trade.....		0.2	91			
7.3	Online creativity		4.0	68	◇		
7.3.1	Generic top-level domains (TLDs)/th pop. 15-69.....		7.5	45			
7.3.2	Country-code TLDs/th pop. 15-69.....		0.8	83	◇		
7.3.3	Wikipedia edits/mn pop. 15-69.....		5.7	79	◇		
7.3.4	Mobile app creation/bn PPP\$ GDP.....		n/a	n/a			

NOTES: ● indicates a strength; ○ a weakness; ◆ an income group strength; ◇ an income group weakness; * 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.