

Output rank	Input rank	Income	Region	Population (mn)	GDP, PPP\$	GDP per capita, PPP\$	GII 2018 rank
44	73	Lower middle	SEAO	3.1	43.2	13,446.5	53
				Score/Value	Rank		
INSTITUTIONS.....				59.8	76		
1.1	Political environment.....		52.5	73			
1.1.1	Political and operational stability*.....		77.2	44	◆		
1.1.2	Government effectiveness*.....		40.2	86			
1.2	Regulatory environment.....		68.8	58	◆		
1.2.1	Regulatory quality*.....		38.8	77			
1.2.2	Rule of law*.....		38.4	80			
1.2.3	Cost of redundancy dismissal, salary weeks.....		8.7	19	●◆		
1.3	Business environment.....		58.1	108			
1.3.1	Ease of starting a business*.....		86.9	70			
1.3.2	Ease of resolving insolvency*.....		29.4	122	○◇		
HUMAN CAPITAL & RESEARCH.....				24.6	84		
2.1	Education.....		41.9	79			
2.1.1	Expenditure on education, % GDP.....		4.1	76			
2.1.2	Government funding/pupil, secondary, % GDP/cap.Ⓞ		15.4	81			
2.1.3	School life expectancy, years.Ⓞ		14.6	61	◆		
2.1.4	PISA scales in reading, maths, & science.....		n/a	n/a			
2.1.5	Pupil-teacher ratio, secondary.Ⓞ		14.5	65			
2.2	Tertiary education.....		31.1	63			
2.2.1	Tertiary enrolment, % gross.....		64.8	36	◆		
2.2.2	Graduates in science & engineering, %.....		21.6	53			
2.2.3	Tertiary inbound mobility, %.....		1.0	87			
2.3	Research & development (R&D).....		0.9	108			
2.3.1	Researchers, FTE/mn pop.....		n/a	n/a			
2.3.2	Gross expenditure on R&D, % GDP.....		0.1	99			
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*.....		0.0	78	○◇		
INFRASTRUCTURE.....				41.0	84		
3.1	Information & communication technologies (ICTs).....		55.6	84			
3.1.1	ICT access*.....		49.1	89			
3.1.2	ICT use*.....		40.0	88			
3.1.3	Government's online service*.....		59.7	91			
3.1.4	E-participation*.....		73.6	63			
3.2	General infrastructure.....		36.8	57			
3.2.1	Electricity output, kWh/mn pop.....		1,870.3	79			
3.2.2	Logistics performance*.....		14.5	114	○◇		
3.2.3	Gross capital formation, % GDP.....		34.8	12	●◆		
3.3	Ecological sustainability.....		30.6	90			
3.3.1	GDP/unit of energy use.....		6.8	89			
3.3.2	Environmental performance*.....		57.5	72			
3.3.3	ISO 14001 environmental certificates/bn PPP\$ GDP..		0.1	122	○		
MARKET SOPHISTICATION.....				62.2	13	●◆	
4.1	Credit.....		68.0	14	●◆		
4.1.1	Ease of getting credit*.....		80.0	20			
4.1.2	Domestic credit to private sector, % GDP.....		53.0	61			
4.1.3	Microfinance gross loans, % GDP.....		18.5	1	●◆		
4.2	Investment.....		68.3	[9]			
4.2.1	Ease of protecting minority investors*.....		68.3	30			
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.....		50.4	106			
4.3.1	Applied tariff rate, weighted avg., %.....		5.5	91			
4.3.2	Intensity of local competition*.....		61.9	98			
4.3.3	Domestic market scale, bn PPP\$.....		43.2	101	◇		
BUSINESS SOPHISTICATION.....				23.5	108		
5.1	Knowledge workers.....		42.4	49	◆		
5.1.1	Knowledge-intensive employment, %.....		23.7	61			
5.1.2	Firms offering formal training, % firms.....		60.9	7	●◆		
5.1.3	GERD performed by business, % GDP.....		0.0	86	○		
5.1.4	GERD financed by business, %.....		4.6	82			
5.1.5	Females employed w/advanced degrees, %.....		18.5	27	◆		
5.2	Innovation linkages.....		13.8	123	○		
5.2.1	University/industry research collaboration*.....		26.6	119	○		
5.2.2	State of cluster development*.....		30.2	120	○◇		
5.2.3	GERD financed by abroad, %.....		2.1	76			
5.2.4	JV-strategic alliance deals/bn PPP\$ GDP.....		n/a	n/a			
5.2.5	Patent families 2+ offices/bn PPP\$ GDP.....		0.1	65			
5.3	Knowledge absorption.....		14.4	129	○◇		
5.3.1	Intellectual property payments, % total trade.....		0.3	75			
5.3.2	High-tech imports, % total trade.....		4.3	114			
5.3.3	ICT services imports, % total trade.....		1.1	66			
5.3.4	FDI net inflows, % GDP.....		-7.8	128	○◇		
5.3.5	Research talent, % in business enterprise.....		n/a	n/a			
KNOWLEDGE & TECHNOLOGY OUTPUTS....				17.2	86		
6.1	Knowledge creation.....		34.0	26	●◆		
6.1.1	Patents by origin/bn PPP\$ GDP.....		3.1	31	◆		
6.1.2	PCT patents by origin/bn PPP\$ GDP.....		0.0	75			
6.1.3	Utility models by origin/bn PPP\$ GDP.....		6.4	1	●◆		
6.1.4	Scientific & technical articles/bn PPP\$ GDP.....		4.4	87			
6.1.5	Citable documents H-index.....		3.7	106			
6.2	Knowledge impact.....		10.6	115	◇		
6.2.1	Growth rate of PPP\$ GDP/worker, %.....		n/a	n/a			
6.2.2	New businesses/th pop. 15-64.Ⓞ		6.3	23	●◆		
6.2.3	Computer software spending, % GDP.....		0.1	81			
6.2.4	ISO 9001 quality certificates/bn PPP\$ GDP.....		0.8	114			
6.2.5	High- & medium-high-tech manufactures, %.....		0.1	92			
6.3	Knowledge diffusion.....		7.2	120	○		
6.3.1	Intellectual property receipts, % total trade.....		0.0	73			
6.3.2	High-tech net exports, % total trade.....		0.1	118			
6.3.3	ICT services exports, % total trade.....		0.4	106			
6.3.4	FDI net outflows, % GDP.....		0.2	86			
CREATIVE OUTPUTS.....				43.5	18	●◆	
7.1	Intangible assets.....		68.5	2	●◆		
7.1.1	Trademarks by origin/bn PPP\$ GDP.....		229.1	2	●◆		
7.1.2	Industrial designs by origin/bn PPP\$ GDP.....		17.9	4	●◆		
7.1.3	ICTs & business model creation*.....		51.3	101			
7.1.4	ICTs & organizational model creation*.....		42.8	101			
7.2	Creative goods & services.....		33.4	19	●◆		
7.2.1	Cultural & creative services exports, % total trade.....		0.2	73			
7.2.2	National feature films/mn pop. 15-69.....		26.3	1	●◆		
7.2.3	Entertainment & Media market/th pop. 15-69.....		n/a	n/a			
7.2.4	Printing & other media, % manufacturing.....		2.4	11	●◆		
7.2.5	Creative goods exports, % total trade.....		0.0	125	○		
7.3	Online creativity.....		3.4	75			
7.3.1	Generic top-level domains (TLDs)/th pop. 15-69.....		0.6	101			
7.3.2	Country-code TLDs/th pop. 15-69.....		2.2	65	◆		
7.3.3	Wikipedia edits/mn pop. 15-69.Ⓞ		15.7	58			
7.3.4	Mobile app creation/bn PPP\$ GDP.....		0.1	83			

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.