

Output rank	Input rank	Income	Region	Population (mn)	GDP, PPP\$ (bn)	GDP per capita, PPP\$	GII 2020 rank		
46	47	Upper middle	SEAO	69.8	1,261.5	18,073	44		
				Score/ Value Rank		Score/ Value Rank			
Institutions				64.2	64	Business sophistication		34.7	36
1.1 Political environment		61.7	54	5.1 Knowledge workers		37.3	51		
1.1.1 Political and operational stability*		67.9	71	5.1.1 Knowledge-intensive employment, %		13.8	98 ○ ◇		
1.1.2 Government effectiveness*		58.6	52	5.1.2 Firms offering formal training, %	⊙	18.0	84 ○		
1.2 Regulatory environment		46.3	112 ○ ◇	5.1.3 GERD performed by business, % GDP	⊙	0.8	27 ◆		
1.2.1 Regulatory quality*		46.5	63	5.1.4 GERD financed by business, %	⊙	80.8	1 ◆ ◆		
1.2.2 Rule of law*		49.4	57	5.1.5 Females employed w/advanced degrees, %		9.9	70		
1.2.3 Cost of redundancy dismissal		36.0	124 ○ ◇	5.2 Innovation linkages		20.2	67		
1.3 Business environment		84.6	20 ◆	5.2.1 University-industry R&D collaboration†		54.4	30 ◆		
1.3.1 Ease of starting a business*		92.4	43	5.2.2 State of cluster development and depth†		52.2	41		
1.3.2 Ease of resolving insolvency*		76.8	22 ◆	5.2.3 GERD financed by abroad, % GDP	⊙	0.0	83 ○		
				5.2.4 Joint venture/strategic alliance deals/bn PPP\$ GDP		0.0	56		
				5.2.5 Patent families/bn PPP\$ GDP		0.1	60		
				5.3 Knowledge absorption		46.4	18 ◆ ◆		
				5.3.1 Intellectual property payments, % total trade		1.7	18 ◆		
				5.3.2 High-tech imports, % total trade		14.2	14 ◆		
				5.3.3 ICT services imports, % total trade		0.3	116 ○ ◇		
				5.3.4 FDI net inflows, % GDP		1.8	85		
				5.3.5 Research talent, % in businesses	⊙	60.8	10 ◆ ◆		
Human capital and research				31.7	63	Knowledge and technology outputs		29.7	40
2.1 Education		42.4	86	6.1 Knowledge creation		22.9	47		
2.1.1 Expenditure on education, % GDP	⊙	4.1	64	6.1.1 Patents by origin/bn PPP\$ GDP		0.6	75		
2.1.2 Government funding/pupil, secondary, % GDP/cap	⊙	18.0	59	6.1.2 PCT patents by origin/bn PPP\$ GDP		0.1	57		
2.1.3 School life expectancy, years	⊙	15.4	45	6.1.3 Utility models by origin/bn PPP\$ GDP		2.4	9 ◆ ◆		
2.1.4 PISA scales in reading, maths and science		412.4	61	6.1.4 Scientific and technical articles/bn PPP\$ GDP		8.9	93		
2.1.5 Pupil-teacher ratio, secondary		26.2	109 ○ ◇	6.1.5 Citable documents H-index		21.2	39		
2.2 Tertiary education		35.4	57	6.2 Knowledge impact		35.0	44		
2.2.1 Tertiary enrolment, % gross	⊙	49.3	64	6.2.1 Labor productivity growth, %		-0.1	66		
2.2.2 Graduates in science and engineering, %	⊙	27.9	25	6.2.2 New businesses/th pop. 15–64		1.1	80		
2.2.3 Tertiary inbound mobility, %	⊙	1.3	85	6.2.3 Software spending, % GDP		0.2	55		
2.3 Research and development (R&D)		17.4	47	6.2.4 ISO 9001 quality certificates/bn PPP\$ GDP		6.8	39		
2.3.1 Researchers, FTE/mn pop.	⊙	1,350.3	48	6.2.5 High-tech manufacturing, %		45.1	17 ◆		
2.3.2 Gross expenditure on R&D, % GDP	⊙	1.0	39	6.3 Knowledge diffusion		31.2	33 ◆		
2.3.3 Global corporate R&D investors, top 3, mn US\$		0.0	41 ○ ◇	6.3.1 Intellectual property receipts, % total trade		0.1	69		
2.3.4 QS university ranking, top 3*		33.4	37	6.3.2 Production and export complexity		70.9	22 ◆		
				6.3.3 High-tech exports, % total trade		13.4	11 ◆ ◆		
				6.3.4 ICT services exports, % total trade		0.2	118 ○		
Infrastructure				43.0	61	Creative outputs		27.3	55
3.1 Information and communication technologies (ICTs)		68.4	60	7.1 Intangible assets		30.2	68		
3.1.1 ICT access*		57.8	81	7.1.1 Trademarks by origin/bn PPP\$ GDP		24.2	85		
3.1.2 ICT use*		59.2	63	7.1.2 Global brand value, top 5,000, % GDP		62.5	31		
3.1.3 Government's online service*		79.4	42	7.1.3 Industrial designs by origin/bn PPP\$ GDP		2.6	41		
3.1.4 E-participation*		77.4	51	7.1.4 ICTs and organizational model creation†		60.3	43 ◆		
3.2 General infrastructure		33.1	48	7.2 Creative goods and services		37.1	15 ◆ ◆		
3.2.1 Electricity output, GWh/mn pop.		2,738.5	69	7.2.1 Cultural and creative services exports, % total trade	n/a	n/a			
3.2.2 Logistics performance*		63.3	31 ◆	7.2.2 National feature films/mn pop. 15–69		1.5	74		
3.2.3 Gross capital formation, % GDP		24.0	54	7.2.3 Entertainment and media market/th pop. 15–69		10.7	35 ◆		
3.3 Ecological sustainability		27.6	68	7.2.4 Printing and other media, % manufacturing	⊙	0.8	71		
3.3.1 GDP/unit of energy use		9.2	78	7.2.5 Creative goods exports, % total trade		6.9	8 ◆ ◆		
3.3.2 Environmental performance*		45.4	70	7.3 Online creativity		11.9	84		
3.3.3 ISO 14001 environmental certificates/bn PPP\$ GDP		2.4	35	7.3.1 Generic top-level domains (TLDs)/th pop. 15–69		5.5	52		
				7.3.2 Country-code TLDs/th pop. 15–69		0.4	102		
				7.3.3 Wikipedia edits/mn pop. 15–69		39.3	86		
				7.3.4 Mobile app creation/bn PPP\$ GDP		3.9	61		
Market sophistication				55.6	27 ◆				
4.1 Credit		52.0	24 ◆						
4.1.1 Ease of getting credit*		70.0	44						
4.1.2 Domestic credit to private sector, % GDP		143.4	10 ◆ ◆						
4.1.3 Microfinance gross loans, % GDP	⊙	0.0	81 ○						
4.2 Investment		31.8	64						
4.2.1 Ease of protecting minority investors*		86.0	3 ◆ ◆						
4.2.2 Market capitalization, % GDP		108.0	11 ◆						
4.2.3 Venture capital investors, deals/bn PPP\$ GDP		0.0	66						
4.2.4 Venture capital recipients, deals/bn PPP\$ GDP		0.0	85 ○						
4.3 Trade, diversification, and market scale		83.1	19 ◆						
4.3.1 Applied tariff rate, weighted avg., %	⊙	3.5	69						
4.3.2 Domestic industry diversification		97.0	16 ◆						
4.3.3 Domestic market scale, bn PPP\$		1,261.5	21						

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 appendices 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.