

Output rank	Input rank	Income	Region	Population (mn)	GDP, PPP\$	GDP per capita, PPP\$	GII 2018 rank
122	108	Lower middle	LCN	6.3	35.8	5,682.7	n/a
Score/Value Rank				Score/Value Rank			
INSTITUTIONS..... 52.5 101				BUSINESS SOPHISTICATION..... 27.9 80			
1.1	Political environment.....		38.8	109	5.1	Knowledge workers..... 41.3 [52]	
1.1.1	Political and operational stability*.....		54.4	111	5.1.1	Knowledge-intensive employment, %..... 13.8 92	
1.1.2	Government effectiveness*.....		31.1	107	5.1.2	Firms offering formal training, % firms..... 57.3 11	
1.2	Regulatory environment.....		58.0	88	5.1.3	GERD performed by business, % GDP..... n/a n/a	
1.2.1	Regulatory quality*.....		23.9	108	5.1.4	GERD financed by business, %..... n/a n/a	
1.2.2	Rule of law*.....		29.3	100	5.1.5	Females employed w/advanced degrees, %..... 6.1 84	
1.2.3	Cost of redundancy dismissal, salary weeks.....		14.9	60	5.2	Innovation linkages..... 15.9 116	
1.3	Business environment.....		60.5	104	5.2.1	University/industry research collaboration*..... 27.1 115	
1.3.1	Ease of starting a business*.....		79.8	109	5.2.2	State of cluster development*..... 33.7 113	
1.3.2	Ease of resolving insolvency*.....		41.1	93	5.2.3	GERD financed by abroad, %..... n/a n/a	
					5.2.4	JV-strategic alliance deals/bn PPP\$ GDP..... 0.0 102	
					5.2.5	Patent families 2+ offices/bn PPP\$ GDP..... 0.0 93	
HUMAN CAPITAL & RESEARCH..... 11.7 [118]				5.3 Knowledge absorption..... 26.5 96			
2.1	Education.....		22.8	[120]	5.3.1	Intellectual property payments, % total trade..... 0.0 111	
2.1.1	Expenditure on education, % GDP.....		4.3	67	5.3.2	High-tech imports, % total trade..... 8.1 57	
2.1.2	Government funding/pupil, secondary, % GDP/cap.....		7.3	102	5.3.3	ICT services imports, % total trade..... 0.3 117	
2.1.3	School life expectancy, years.....		n/a	n/a	5.3.4	FDI net inflows, % GDP..... 6.9 19	
2.1.4	PISA scales in reading, maths, & science.....		n/a	n/a	5.3.5	Research talent, % in business enterprise..... n/a n/a	
2.1.5	Pupil-teacher ratio, secondary.....		30.8	107			
2.2	Tertiary education.....		n/a	[n/a]			
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			
2.3	Research & development (R&D).....		0.7	112			
2.3.1	Researchers, FTE/mn pop.....		n/a	n/a			
2.3.2	Gross expenditure on R&D, % GDP.....		0.1	106			
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..... 33.6 106				KNOWLEDGE & TECHNOLOGY OUTPUTS.... 7.9 122			
3.1	Information & communication technologies (ICTs).....		36.0	113	6.1	Knowledge creation..... 1.7 125	
3.1.1	ICT access*.....		43.6	99	6.1.1	Patents by origin/bn PPP\$ GDP..... 0.0 124	
3.1.2	ICT use*.....		21.3	105	6.1.2	PCT patents by origin/bn PPP\$ GDP..... 0.0 84	
3.1.3	Government's online service*.....		40.3	114	6.1.3	Utility models by origin/bn PPP\$ GDP..... n/a n/a	
3.1.4	E-participation*.....		38.8	112	6.1.4	Scientific & technical articles/bn PPP\$ GDP..... 1.1 122	
3.2	General infrastructure.....		33.1	70	6.1.5	Citable documents H-index..... 2.9 113	
3.2.1	Electricity output, kWh/mn pop.....		746.3	100	6.2	Knowledge impact..... 4.6 [122]	
3.2.2	Logistics performance*.....		n/a	n/a	6.2.1	Growth rate of PPP\$ GDP/worker, %..... n/a n/a	
3.2.3	Gross capital formation, % GDP.....		28.1	29	6.2.2	New businesses/th pop. 15-64..... n/a n/a	
3.3	Ecological sustainability.....		31.7	87	6.2.3	Computer software spending, % GDP..... 0.1 98	
3.3.1	GDP/unit of energy use.....		7.9	78	6.2.4	ISO 9001 quality certificates/bn PPP\$ GDP..... 1.7 90	
3.3.2	Environmental performance*.....		55.0	82	6.2.5	High- & medium-high-tech manufactures, %..... n/a n/a	
3.3.3	ISO 14001 environmental certificates/bn PPP\$ GDP.....		0.4	90	6.3	Knowledge diffusion..... 17.5 65	
MARKET SOPHISTICATION..... 39.1 105				CREATIVE OUTPUTS..... 16.3 [110]			
4.1	Credit.....		29.0	97	7.1	Intangible assets..... 30.8 104	
4.1.1	Ease of getting credit*.....		50.0	87	7.1.1	Trademarks by origin/bn PPP\$ GDP..... 40.2 65	
4.1.2	Domestic credit to private sector, % GDP.....		42.6	78	7.1.2	Industrial designs by origin/bn PPP\$ GDP..... 0.0 116	
4.1.3	Microfinance gross loans, % GDP.....		1.1	18	7.1.3	ICTs & business model creation*..... 48.9 110	
4.2	Investment.....		35.0	[99]	7.1.4	ICTs & organizational model creation*..... 43.0 100	
4.2.1	Ease of protecting minority investors*.....		35.0	123	7.2	Creative goods & services..... 2.1 [115]	
4.2.2	Market capitalization, % GDP.....		n/a	n/a	7.2.1	Cultural & creative services exports, % total trade..... 0.0 97	
4.2.3	Venture capital deals/bn PPP\$ GDP.....		n/a	n/a	7.2.2	National feature films/mn pop. 15-69..... 0.3 100	
4.3	Trade, competition, & market scale.....		53.3	95	7.2.3	Entertainment & Media market/th pop. 15-69..... n/a n/a	
4.3.1	Applied tariff rate, weighted avg., %.....		2.3	57	7.2.4	Printing & other media, % manufacturing..... n/a n/a	
4.3.2	Intensity of local competition*.....		60.3	106	7.2.5	Creative goods exports, % total trade..... 0.3 71	
4.3.3	Domestic market scale, bn PPP\$.....		35.8	109	7.3	Online creativity..... 1.6 [90]	
					7.3.1	Generic top-level domains (TLDs)/th pop. 15-69..... 2.8 68	
					7.3.2	Country-code TLDs/th pop. 15-69..... 0.5 94	
					7.3.3	Wikipedia edits/mn pop. 15-69..... n/a n/a	
					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.