

Output rank	Input rank	Income	Region	Population (mn)	GDP, PPP\$	GDP per capita, PPP\$	GII 2018 rank
119	93	Low	CSA	29.6	86.1	2,904.9	108
Score/Value Rank							
 INSTITUTIONS.....	49.8	110					
1.1 Political environment.....	35.5	120					
1.1.1 Political and operational stability*	56.1	105					
1.1.2 Government effectiveness*	25.2	119					
1.2 Regulatory environment.....	48.2	114					
1.2.1 Regulatory quality*	22.7	111					
1.2.2 Rule of law*	28.5	104					
1.2.3 Cost of redundancy dismissal, salary weeks	27.2	105	◊				
1.3 Business environment.....	65.8	79					
1.3.1 Ease of starting a business*	84.4	82					
1.3.2 Ease of resolving insolvency*	47.2	75	◆				
 HUMAN CAPITAL & RESEARCH.....	12.9	115					
2.1 Education.....	32.3	104					
2.1.1 Expenditure on education, % GDP	5.1	45	●				
2.1.2 Government funding/pupil, secondary, % GDP/cap..	11.0	91					
2.1.3 School life expectancy, years	12.2	90	◆				
2.1.4 PISA scales in reading, maths, & science	n/a	n/a					
2.1.5 Pupil-teacher ratio, secondary	28.8	105					
2.2 Tertiary education.....	4.4	121	◊				
2.2.1 Tertiary enrolment, % gross	11.8	103					
2.2.2 Graduates in science & engineering, %	n/a	n/a					
2.2.3 Tertiary inbound mobility, % ^①	0.0	111	◊ ◊				
2.3 Research & development (R&D).....	2.1	92					
2.3.1 Researchers, FTE/mn pop	n/a	n/a					
2.3.2 Gross expenditure on R&D, % GDP ^②	0.3	77					
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.....	42.2	80	◆				
3.1 Information & communication technologies(ICTs).....	53.6	89	◆				
3.1.1 ICT access*	42.0	101	◆				
3.1.2 ICT use*	25.5	100	◆				
3.1.3 Government's online service*	68.8	72	◆				
3.1.4 E-participation*	78.1	55	● ◆				
3.2 General infrastructure.....	55.4	9	● ◆				
3.2.1 Electricity output, kWh/mn pop	146.4	116	◊				
3.2.2 Logistics performance*	21.0	105					
3.2.3 Gross capital formation, % GDP	51.8	1	● ◆				
3.3 Ecological sustainability.....	17.6	129	◊ ◊				
3.3.1 GDP/unit of energy use	5.1	107					
3.3.2 Environmental performance*	31.4	124	◊ ◊				
3.3.3 ISO 14001 environmental certificates/bn PPP\$ GDP..	0.3	107					
 MARKET SOPHISTICATION.....	45.9	72	◆				
4.1 Credit.....	34.3	70					
4.1.1 Ease of getting credit*	50.0	87					
4.1.2 Domestic credit to private sector, % GDP	79.8	36	● ◆				
4.1.3 Microfinance gross loans, % GDP	0.9	20	●				
4.2 Investment.....	58.3	[22]					
4.2.1 Ease of protecting minority investors*	58.3	68	◆				
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.....	45.0	118					
4.3.1 Applied tariff rate, weighted avg., % ^③	12.4	124	◊				
4.3.2 Intensity of local competition*	63.1	91					
4.3.3 Domestic market scale, bn PPP\$	86.1	85					
Score/Value Rank							
 BUSINESS SOPHISTICATION.....	32.8	54	● ◆				
5.1 Knowledge workers.....	37.6	[60]					
5.1.1 Knowledge-intensive employment, %	n/a	n/a					
5.1.2 Firms offering formal training, % firms	31.9	49	●				
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, %	n/a	n/a					
5.2 Innovation linkages.....	29.6	[49]					
5.2.1 University/industry research collaboration [†]	30.1	105					
5.2.2 State of cluster development	38.0	96					
5.2.3 GERD financed by abroad, %	n/a	n/a					
5.2.4 JV-strategic alliance deals/bn PPP\$ GDP	0.0	54	●				
5.2.5 Patent families 2+ offices/bn PPP\$ GDP	n/a	n/a					
5.3 Knowledge absorption.....	31.1	[80]					
5.3.1 Intellectual property payments, % total trade	n/a	n/a					
5.3.2 High-tech imports, % total trade	11.5	21	●				
5.3.3 ICT services imports, % total trade	0.2	121	◊				
5.3.4 FDI net inflows, % GDP	0.5	119					
5.3.5 Research talent, % in business enterprise	n/a	n/a					
Score/Value Rank							
 KNOWLEDGE & TECHNOLOGY OUTPUTS....10.4 [118]							
6.1 Knowledge creation.....	7.3	[81]					
6.1.1 Patents by origin/bn PPP\$ GDP	0.3	89					
6.1.2 PCT patents by origin/bn PPP\$ GDP	n/a	n/a					
6.1.3 Utility models by origin/bn PPP\$ GDP	n/a	n/a					
6.1.4 Scientific & technical articles/bn PPP\$ GDP	5.7	73					
6.1.5 Citable documents H-index	6.3	87					
6.2 Knowledge impact.....	3.7	125	◊ ◊				
6.2.1 Growth rate of PPP\$ GDP/worker, %	n/a	n/a					
6.2.2 New businesses/th pop. 15-64	1.0	72					
6.2.3 Computer software spending, % GDP	0.0	119	◊				
6.2.4 ISO 9001 quality certificates/bn PPP\$ GDP	0.9	109					
6.2.5 High- & medium-high-tech manufactures, % ^④	0.1	90					
6.3 Knowledge diffusion.....	20.3	[49]					
6.3.1 Intellectual property receipts, % total trade	n/a	n/a					
6.3.2 High-tech net exports, % total trade	0.1	111					
6.3.3 ICT services exports, % total trade	4.2	17	● ◆				
6.3.4 FDI net outflows, % GDP	n/a	n/a					
Score/Value Rank							
 CREATIVE OUTPUTS.....							
7.1 Intangible assets.....	28.3	110					
7.1.1 Trademarks by origin/bn PPP\$ GDP	50.6	47	● ◆				
7.1.2 Industrial designs by origin/bn PPP\$ GDP	0.2	104					
7.1.3 ICTs & business model creation [†]	40.4	120	◊				
7.1.4 ICTs & organizational model creation [†]	37.9	117	◊				
7.2 Creative goods & services.....	4.0	[106]					
7.2.1 Cultural & creative services exports, % total trade	n/a	n/a					
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 ^⑤	0.4	95	◊				
7.2.5 Creative goods exports, % total trade	0.2	80	◆				
7.3 Online creativity.....	1.7	89	◆				
7.3.1 Generic top-level domains (TLDs)/th pop. 15-69	0.5	110					
7.3.2 Country-code TLDs/th pop. 15-69	0.9	82					
7.3.3 Wikipedia edits/mn pop. 15-69 ^⑥	6.1	73	◆				
7.3.4 Mobile app creation/bn PPP\$ GDP	1.2	65	◆				
Score/Value Rank							

NOTES: ● indicates a strength; O a weakness; ◆ an income group strength; ◊ an income group weakness; * an index; † a survey question. ^① 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.