

Output rank	Input rank	Income	Region	Population (mn)	GDP, PPP\$	GDP per capita, PPP\$	GII 2018 rank
56	75	High	NAWA	4.2	303.3	67,000.2	60
				Score/Value	Rank		
 INSTITUTIONS.....	55.6	90	◊	 BUSINESS SOPHISTICATION.....	24.7 [100]		
1.1 Political environment.....	49.4	85	◊	5.1 Knowledge workers.....	26.6 [91]		
1.1.1 Political and operational stability*.....	63.2	86	◊	5.1.1 Knowledge-intensive employment, % [⊕]	22.7	66	◊
1.1.2 Government effectiveness*.....	42.5	83	◊	5.1.2 Firms offering formal training, % firms.....	n/a	n/a	
1.2 Regulatory environment.....	57.0	92	◊	5.1.3 GERD performed by business, % GDP.....	n/a	n/a	
1.2.1 Regulatory quality*.....	40.3	73	◊	5.1.4 GERD financed by business, % [⊕]	1.0	90	◊
1.2.2 Rule of law*.....	49.1	55	◊	5.1.5 Females employed w/advanced degrees, %.....	n/a	n/a	
1.2.3 Cost of redundancy dismissal, salary weeks.....	28.1	113	O ◊	5.2 Innovation linkages.....	19.6 [89]		
1.3 Business environment.....	60.3	105	◊	5.2.1 University/industry research collaboration [†]	40.2	68	
1.3.1 Ease of starting a business*.....	81.4	101	◊	5.2.2 State of cluster development.....	49.9	49	
1.3.2 Ease of resolving insolvency*.....	39.3	101	◊	5.2.3 GERD financed by abroad, % [⊕]	1.2	90	◊
 HUMAN CAPITAL & RESEARCH.....	25.5	[81]		5.2.4 JV-strategic alliance deals/bn PPP\$ GDP.....	0.0	56	
2.1 Education.....	48.2	[67]		5.2.5 Patent families 2+ offices/bn PPP\$ GDP.....	0.0	81	
2.1.1 Expenditure on education, % GDP.....	n/a	n/a		5.3 Knowledge absorption.....	28.1 [91]		
2.1.2 Government funding/pupil, secondary, % GDP/cap. [⊕]	17.6	64		5.3.1 Intellectual property payments, % total trade.....	n/a	n/a	
2.1.3 School life expectancy, years [⊕]	13.6	73	◊	5.3.2 High-tech imports, % total trade.....	6.8	76	
2.1.4 PISA scales in reading, maths, & science.....	n/a	n/a		5.3.3 ICT services imports, % total trade.....	0.7	92	
2.1.5 Pupil-teacher ratio, secondary [⊕]	7.6	6	● ◊	5.3.4 FDI net inflows, % GDP.....	0.2	122	O
2.2 Tertiary education.....	25.3	[79]		5.3.5 Research talent, % in business enterprise.....	n/a	n/a	
2.2.1 Tertiary enrolment, % gross [⊕]	32.6	80	◊	 KNOWLEDGE & TECHNOLOGY OUTPUTS....25.2 52			
2.2.2 Graduates in science & engineering, %.....	n/a	n/a		6.1 Knowledge creation.....	6.8 [85]		
2.2.3 Tertiary inbound mobility, %.....	n/a	n/a		6.1.1 Patents by origin/bn PPP\$ GDP.....	n/a	n/a	
2.3 Research & development (R&D).....	2.9	87	◊	6.1.2 PCT patents by origin/bn PPP\$ GDP.....	n/a	n/a	
2.3.1 Researchers, FTE/mn pop.....	491.8	68	◊	6.1.3 Utility models by origin/bn PPP\$ GDP.....	n/a	n/a	
2.3.2 Gross expenditure on R&D, % GDP.....	0.1	110	O ◊	6.1.4 Scientific & technical articles/bn PPP\$ GDP.....	2.1	112	◊
2.3.3 Global R&D companies, avg. exp. top 3, mn US\$.....	0.0	43	O ◊	6.1.5 Citable documents H-index.....	7.6	81	◊
2.3.4 QS university ranking, average score top 3*.....	4.5	71	◊	6.2 Knowledge impact.....	33.4 79		
 INFRASTRUCTURE.....	50.2	53	◊	6.2.1 Growth rate of PPP\$ GDP/worker, %.....	-1.5	103	O ◊
3.1 Information & communication technologies(ICTs).....	73.7	48	●	6.2.2 New businesses/th pop. 15-64.....	n/a	n/a	
3.1.1 ICT access*.....	78.3	33	●	6.2.3 Computer software spending, % GDP.....	0.4	26	●
3.1.2 ICT use*.....	68.2	38	●	6.2.4 ISO 9001 quality certificates/bn PPP\$ GDP.....	1.5	101	◊
3.1.3 Government's online service*.....	79.2	48	●	6.2.5 High- & medium-high-tech manufactures, %.....	0.2	54	
3.1.4 E-participation*.....	69.1	70	◊	6.3 Knowledge diffusion.....	35.4 24	●	
3.2 General infrastructure.....	42.5	39	●	6.3.1 Intellectual property receipts, % total trade.....	n/a	n/a	
3.2.1 Electricity output, kWh/mn pop.....	17,307.2	5	● ◊	6.3.2 High-tech net exports, % total trade.....	0.3	87	◊
3.2.2 Logistics performance*.....	37.3	62	◊	6.3.3 ICT services exports, % total trade.....	3.9	20	●
3.2.3 Gross capital formation, % GDP.....	22.2	75		6.3.4 FDI net outflows, % GDP.....	5.5	11	●
3.3 Ecological sustainability.....	34.4	80	◊	 CREATIVE OUTPUTS.....29.2 56			
3.3.1 GDP/unit of energy use.....	7.6	82		7.1 Intangible assets.....	53.7 [25]		
3.3.2 Environmental performance*.....	62.3	54	◊	7.1.1 Trademarks by origin/bn PPP\$ GDP.....	n/a	n/a	
3.3.3 ISO 14001 environmental certificates/bn PPP\$ GDP..	0.5	83	◊	7.1.2 Industrial designs by origin/bn PPP\$ GDP.....	n/a	n/a	
 MARKET SOPHISTICATION.....	53.5	41	●	7.1.3 ICTs & business model creation [†]	56.6	82	◊
4.1 Credit.....	41.1	52		7.1.4 ICTs & organizational model creation [†]	50.9	78	◊
4.1.1 Ease of getting credit*.....	35.0	110	O ◊	7.2 Creative goods & services.....	4.6 103		
4.1.2 Domestic credit to private sector, % GDP.....	99.2	28	●	7.2.1 Cultural & creative services exports, % total trade.....	0.0	110	O ◊
4.1.3 Microfinance gross loans, % GDP.....	n/a	n/a		7.2.2 National feature films/mn pop. 15-69.....	1.9	67	◊
4.2 Investment.....	58.3	[22]		7.2.3 Entertainment & Media market/th pop. 15-69.....	11.3	34	◊
4.2.1 Ease of protecting minority investors*.....	58.3	68		7.2.4 Printing & other media, % manufacturing.....	0.4	97	O ◊
4.2.2 Market capitalization, % GDP.....	n/a	n/a		7.2.5 Creative goods exports, % total trade.....	0.2	78	
4.2.3 Venture capital deals/bn PPP\$ GDP.....	n/a	n/a		7.3 Online creativity.....	4.9 67		
4.3 Trade, competition, & market scale.....	61.0	64		7.3.1 Generic top-level domains (TLDs)/th pop. 15-69.....	7.6	44	●
4.3.1 Applied tariff rate, weighted avg., %.....	4.3	77		7.3.2 Country-code TLDs/th pop. 15-69.....	0.3	100	◊
4.3.2 Intensity of local competition*.....	56.0	119	O ◊	7.3.3 Wikipedia edits/mn pop. 15-69 [⊕]	16.3	54	
4.3.3 Domestic market scale, bn PPP\$.....	303.3	55		7.3.4 Mobile app creation/bn PPP\$ GDP.....	0.7	67	

NOTES: ● indicates a strength; O 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.