

Output rank	Input rank	Income	Region	Population (mn)	GDP, PPP\$	GDP per capita, PPP\$	GII 2018 rank
65	74	Lower middle	NAWA	11.7	144.2	12,371.7	66
				Score/Value	Rank		
INSTITUTIONS.....				61.1	73	BUSINESS SOPHISTICATION.....	
						21.3	115
1.1	Political environment.....	51.6	76	5.1	Knowledge workers.....	26.7	90
1.1.1	Political and operational stability*.....	64.9	79	5.1.1	Knowledge-intensive employment, %.....	21.0	72
1.1.2	Government effectiveness*.....	44.9	75	5.1.2	Firms offering formal training, % firms.....	28.9	52
1.2	Regulatory environment.....	59.4	83	5.1.3	GERD performed by business, % GDP.....	0.1	59
1.2.1	Regulatory quality*.....	30.9	98	5.1.4	GERD financed by business, %.....	18.9	68
1.2.2	Rule of law*.....	48.3	58	5.1.5	Females employed w/advanced degrees, %.....	6.7	82
1.2.3	Cost of redundancy dismissal, salary weeks.....	21.6	90	5.2	Innovation linkages.....	16.0	115
1.3	Business environment.....	72.2	56	5.2.1	University/industry research collaboration*.....	38.2	80
1.3.1	Ease of starting a business*.....	90.2	53	5.2.2	State of cluster development*.....	37.0	100
1.3.2	Ease of resolving insolvency*.....	54.2	62	5.2.3	GERD financed by abroad, %.....	3.9	66
				HUMAN CAPITAL & RESEARCH.....			
				44.4	32	KNOWLEDGE & TECHNOLOGY OUTPUTS...23.0	
						60	
2.1	Education.....	66.9	8	6.1	Knowledge creation.....	18.7	49
2.1.1	Expenditure on education, % GDP.....	6.6	13	6.1.1	Patents by origin/bn PPP\$ GDP.....	1.2	56
2.1.2	Government funding/pupil, secondary, % GDP/cap... 52.8	1	1	6.1.2	PCT patents by origin/bn PPP\$ GDP.....	0.0	74
2.1.3	School life expectancy, years.....	15.1	50	6.1.3	Utility models by origin/bn PPP\$ GDP.....	n/a	n/a
2.1.4	PISA scales in reading, maths, & science.....	371.4	67	6.1.4	Scientific & technical articles/bn PPP\$ GDP.....	23.8	15
2.1.5	Pupil-teacher ratio, secondary.....	13.6	60	6.1.5	Citable documents H-index.....	9.6	71
2.2	Tertiary education.....	57.3	7	6.2	Knowledge impact.....	34.5	76
2.2.1	Tertiary enrolment, % gross.....	32.1	81	6.2.1	Growth rate of PPP\$ GDP/worker, %.....	1.4	52
2.2.2	Graduates in science & engineering, %.....	44.1	2	6.2.2	New businesses/th pop. 15-64.....	1.7	57
2.2.3	Tertiary inbound mobility, %.....	2.3	71	6.2.3	Computer software spending, % GDP.....	0.3	34
2.3	Research & development (R&D).....	9.1	60	6.2.4	ISO 9001 quality certificates/bn PPP\$ GDP.....	7.6	40
2.3.1	Researchers, FTE/mn pop.....	1,965.0	41	6.2.5	High- & medium-high-tech manufactures, %.....	0.1	65
2.3.2	Gross expenditure on R&D, % GDP.....	0.6	53	6.3	Knowledge diffusion.....	15.8	75
2.3.3	Global R&D companies, avg. exp. top 3, mn US\$.....	0.0	43	6.3.1	Intellectual property receipts, % total trade.....	0.1	51
2.3.4	QS university ranking, average score top 3*.....	0.0	78	6.3.2	High-tech net exports, % total trade.....	3.7	39
				INFRASTRUCTURE.....			
				44.2	74	CREATIVE OUTPUTS.....	
						24.1	75
3.1	Information & communication technologies (ICTs) 65.4	69	◆	7.1	Intangible assets.....	42.1	59
3.1.1	ICT access*.....	57.1	76	7.1.1	Trademarks by origin/bn PPP\$ GDP.....	n/a	n/a
3.1.2	ICT use*.....	44.0	80	7.1.2	Industrial designs by origin/bn PPP\$ GDP.....	1.1	63
3.1.3	Government's online service*.....	80.6	44	7.1.3	ICTs & business model creation*.....	59.6	67
3.1.4	E-participation*.....	79.8	53	7.1.4	ICTs & organizational model creation*.....	42.7	104
3.2	General infrastructure.....	26.2	96	7.2	Creative goods & services.....	10.5	82
3.2.1	Electricity output, kWh/mn pop.....	1,737.5	83	7.2.1	Cultural & creative services exports, % total trade.....	0.0	109
3.2.2	Logistics performance*.....	23.7	98	7.2.2	National feature films/mn pop. 15-69.....	1.4	74
3.2.3	Gross capital formation, % GDP.....	23.1	65	7.2.3	Entertainment & Media market/th pop. 15-69.....	0.9	57
3.3	Ecological sustainability.....	41.2	51	7.2.4	Printing & other media, % manufacturing.....	n/a	n/a
3.3.1	GDP/unit of energy use.....	10.9	43	7.2.5	Creative goods exports, % total trade.....	2.0	28
3.3.2	Environmental performance*.....	62.4	51	7.3	Online creativity.....	1.6	93
3.3.3	ISO 14001 environmental certificates/bn PPP\$ GDP..	1.6	55	7.3.1	Generic top-level domains (TLDs)/th pop. 15-69.....	2.7	70
				MARKET SOPHISTICATION.....			
				39.6	104	CREATIVE OUTPUTS.....	
						24.1	75
4.1	Credit.....	33.0	76	7.3.2	Country-code TLDs/th pop. 15-69.....	1.4	72
4.1.1	Ease of getting credit*.....	50.0	87	7.3.3	Wikipedia edits/mn pop. 15-69.....	2.9	94
4.1.2	Domestic credit to private sector, % GDP.....	86.2	33	7.3.4	Mobile app creation/bn PPP\$ GDP.....	0.2	79
4.1.3	Microfinance gross loans, % GDP.....	0.5	30	4.2	Investment.....	33.2	107
4.2.1	Ease of protecting minority investors*.....	56.7	79	4.2.1	Ease of protecting minority investors*.....	56.7	79
4.2.2	Market capitalization, % GDP.....	21.0	60	4.2.2	Market capitalization, % GDP.....	21.0	60
4.2.3	Venture capital deals/bn PPP\$ GDP.....	0.0	28	4.2.3	Venture capital deals/bn PPP\$ GDP.....	0.0	28
4.3	Trade, competition, & market scale.....	52.4	99	4.3.1	Applied tariff rate, weighted avg., %.....	9.4	109
4.3.1	Applied tariff rate, weighted avg., %.....	9.4	109	4.3.2	Intensity of local competition*.....	65.0	82
4.3.2	Intensity of local competition*.....	65.0	82	4.3.3	Domestic market scale, bn PPP\$.....	144.2	72
4.3.3	Domestic market scale, bn PPP\$.....	144.2	72				

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.