

Output rank	Input rank	Income	Region	Population (mn)	GDP, PPP\$	GDP per capita, PPP\$	GII 2018 rank
				Score/Value	Rank		
74	106	Lower middle	NAWA	99.4	1,297.0	13,366.5	95
 INSTITUTIONS.....	47.9	118	○	 BUSINESS SOPHISTICATION.....	21.2	116	○ ◇
1.1 Political environment.....	39.7	106		5.1 Knowledge workers.....	21.1	106	
1.1.1 Political and operational stability*.....	56.1	105		5.1.1 Knowledge-intensive employment, %.....	30.3	43	● ◆
1.1.2 Government effectiveness*.....	31.5	104		5.1.2 Firms offering formal training, % firms.....	10.0	89	○ ◇
1.2 Regulatory environment.....	40.8	120	○	5.1.3 GERD performed by business, % GDP.....	0.0	76	
1.2.1 Regulatory quality*.....	18.8	120	○ ◇	5.1.4 GERD financed by business, %.....	5.4	79	
1.2.2 Rule of law*.....	32.2	95		5.1.5 Females employed w/advanced degrees, %.....	5.5	89	
1.2.3 Cost of redundancy dismissal, salary weeks.....	36.8	121	○				
1.3 Business environment.....	63.2	90		5.2 Innovation linkages.....	17.5	110	
1.3.1 Ease of starting a business*.....	84.1	84		5.2.1 University/industry research collaboration*.....	30.0	106	
1.3.2 Ease of resolving insolvency*.....	42.3	89		5.2.2 State of cluster development.....	53.9	38	● ◆
 HUMAN CAPITAL & RESEARCH.....	19.7	96		5.2.3 GERD financed by abroad, %.....	0.0	101	○
2.1 Education.....	37.0	94		5.2.4 JV-strategic alliance deals/bn PPP\$ GDP.....	0.0	98	○
2.1.1 Expenditure on education, % GDP [†]	3.8	89		5.2.5 Patent families 2+ offices/bn PPP\$ GDP.....	0.0	88	
2.1.2 Government funding/pupil, secondary, % GDP/cap.....	14.0	86					
2.1.3 School life expectancy, years.....	13.1	80					
2.1.4 PISA scales in reading, maths, & science.....	n/a	n/a					
2.1.5 Pupil-teacher ratio, secondary.....	15.2	68					
2.2 Tertiary education.....	11.4	108		5.3 Knowledge absorption.....	24.9	103	
2.2.1 Tertiary enrolment, % gross [○]	34.4	77		5.3.1 Intellectual property payments, % total trade.....	0.4	71	
2.2.2 Graduates in science & engineering, %.....	11.2	99	○ ◇	5.3.2 High-tech imports, % total trade.....	6.8	73	
2.2.3 Tertiary inbound mobility, %.....	1.8	77		5.3.3 ICT services imports, % total trade.....	1.1	68	
2.3 Research & development (R&D).....	10.7	55		5.3.4 FDI net inflows, % GDP.....	2.6	69	
2.3.1 Researchers, FTE/mn pop.....	669.4	61		5.3.5 Research talent, % in business enterprise.....	6.5	69	
2.3.2 Gross expenditure on R&D, % GDP.....	0.6	51	◆				
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*.....	21.9	48	● ◆				
 INFRASTRUCTURE.....	36.8	94		 KNOWLEDGE & TECHNOLOGY OUTPUTS....	22.1	64	
3.1 Information & communication technologies(ICTs).....	49.4	96		6.1 Knowledge creation.....	11.1	66	
3.1.1 ICT access*.....	55.6	78		6.1.1 Patents by origin/bn PPP\$ GDP [†]	0.8	68	
3.1.2 ICT use*.....	34.7	95		6.1.2 PCT patents by origin/bn PPP\$ GDP.....	0.0	81	
3.1.3 Government's online service*.....	53.5	101		6.1.3 Utility models by origin/bn PPP\$ GDP.....	n/a	n/a	
3.1.4 E-participation*.....	53.9	100		6.1.4 Scientific & technical articles/bn PPP\$ GDP.....	7.1	61	
3.2 General infrastructure.....	21.1	116	○	6.1.5 Citable documents H-index.....	15.5	48	●
3.2.1 Electricity output, kWh/mn pop.....	2,030.8	76	◆	6.2 Knowledge impact.....	43.7	32	●
3.2.2 Logistics performance*.....	35.6	66		6.2.1 Growth rate of PPP\$ GDP/worker, %.....	2.5	32	●
3.2.3 Gross capital formation, % GDP.....	15.5	118	○ ◇	6.2.2 New businesses/th pop. 15-64.....	n/a	n/a	
3.3 Ecological sustainability.....	39.9	55	◆	6.2.3 Computer software spending, % GDP.....	0.4	21	● ◆
3.3.1 GDP/unit of energy use.....	11.2	39	●	6.2.4 ISO 9001 quality certificates/bn PPP\$ GDP.....	1.8	89	
3.3.2 Environmental performance*.....	61.2	59	◆	6.2.5 High- & medium-high-tech manufactures, %.....	0.2	52	
3.3.3 ISO 14001 environmental certificates/bn PPP\$ GDP..	0.6	81					
 MARKET SOPHISTICATION.....	41.0	97		 CREATIVE OUTPUTS.....	21.1	89	
4.1 Credit.....	25.8	103		7.1 Intangible assets.....	35.8	95	
4.1.1 Ease of getting credit*.....	65.0	54		7.1.1 Trademarks by origin/bn PPP\$ GDP [†]	11.2	104	
4.1.2 Domestic credit to private sector, % GDP.....	28.5	99		7.1.2 Industrial designs by origin/bn PPP\$ GDP.....	1.7	56	
4.1.3 Microfinance gross loans, % GDP.....	0.1	58		7.1.3 ICTs & business model creation*.....	61.0	59	
4.2 Investment.....	30.8	119	○	7.1.4 ICTs & organizational model creation*.....	56.0	57	
4.2.1 Ease of protecting minority investors*.....	58.3	68		7.2 Creative goods & services.....	12.1	77	
4.2.2 Market capitalization, % GDP.....	15.5	63		7.2.1 Cultural & creative services exports, % total trade.....	0.1	80	
4.2.3 Venture capital deals/bn PPP\$ GDP.....	0.0	63		7.2.2 National feature films/mn pop. 15-69 [○]	0.6	93	
4.3 Trade, competition, & market scale.....	66.4	48	●	7.2.3 Entertainment & Media market/th pop. 15-69.....	0.5	61	○
4.3.1 Applied tariff rate, weighted avg., %.....	7.4	101		7.2.4 Printing & other media, % manufacturing [†]	1.4	35	●
4.3.2 Intensity of local competition*.....	65.7	77		7.2.5 Creative goods exports, % total trade.....	1.1	41	●
4.3.3 Domestic market scale, bn PPP\$.....	1,297.0	21	● ◆				
7.3 Online creativity.....	0.7	103					
7.3.1 Generic top-level domains (TLDs)/th pop. 15-69.....	1.2	91					
7.3.2 Country-code TLDs/th pop. 15-69.....	0.0	123	○				
7.3.3 Wikipedia edits/mn pop. 15-69.....	2.5	97					
7.3.4 Mobile app creation/bn PPP\$ GDP.....	0.1	82					

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.