

Output rank	Input rank	Income	Region	Population (mn)	GDP, PPP\$	GDP per capita, PPP\$	GII 2018 rank
124	127	Low	SSF	13.1	30.3	2,309.6	n/a
				Score/Value	Rank		
<b>INSTITUTIONS</b>				<b>50.6</b>	<b>108</b>		
<b>1.1</b>	<b>Political environment</b>		<b>33.4</b>	<b>122</b>			
1.1.1	Political and operational stability*		57.9	101			
1.1.2	Government effectiveness*		21.2	123			
<b>1.2</b>	<b>Regulatory environment</b>		<b>56.8</b>	<b>93</b>			
1.2.1	Regulatory quality*		19.5	119			
1.2.2	Rule of law*		13.9	125			
1.2.3	Cost of redundancy dismissal, salary weeks		10.1	30 ●			
<b>1.3</b>	<b>Business environment</b>		<b>61.5</b>	<b>96</b>			
1.3.1	Ease of starting a business*		83.9	86 ●			
1.3.2	Ease of resolving insolvency*		39.1	102			
<b>HUMAN CAPITAL &amp; RESEARCH</b>				<b>6.5</b>	<b>128</b> ○ ◇		
<b>2.1</b>	<b>Education</b>		<b>13.8</b>	<b>128</b> ○ ◇			
2.1.1	Expenditure on education, % GDP		2.2	116 ◇			
2.1.2	Government funding/pupil, secondary, % GDP/cap.Ⓞ		8.7	100 ◇			
2.1.3	School life expectancy, years.Ⓞ		9.1	109			
2.1.4	PISA scales in reading, maths, & science		n/a	n/a			
2.1.5	Pupil-teacher ratio, secondary.Ⓞ		33.1	108			
<b>2.2</b>	<b>Tertiary education</b>		<b>5.8</b>	<b>120</b>			
2.2.1	Tertiary enrolment, % gross.Ⓞ		11.3	105			
2.2.2	Graduates in science & engineering, %		n/a	n/a			
2.2.3	Tertiary inbound mobility, %.		0.9	88			
<b>2.3</b>	<b>Research &amp; development (R&amp;D)</b>		<b>0.0</b>	<b>[120]</b>			
2.3.1	Researchers, FTE/mn pop.		n/a	n/a			
2.3.2	Gross expenditure on R&D, % GDP		n/a	n/a			
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 ○ ◇			
<b>INFRASTRUCTURE</b>				<b>27.0</b>	<b>121</b>		
<b>3.1</b>	<b>Information &amp; communication technologies (ICTs)</b>		<b>27.1</b>	<b>123</b>			
3.1.1	ICT access*		29.8	118			
3.1.2	ICT use*		12.0	121			
3.1.3	Government's online service*		31.3	118			
3.1.4	E-participation*		35.4	115			
<b>3.2</b>	<b>General infrastructure</b>		<b>22.4</b>	<b>111</b>			
3.2.1	Electricity output, kWh/mn pop.		n/a	n/a			
3.2.2	Logistics performance*		6.4	119			
3.2.3	Gross capital formation, % GDP		19.8	94			
<b>3.3</b>	<b>Ecological sustainability</b>		<b>31.4</b>	<b>88</b>			
3.3.1	GDP/unit of energy use		n/a	n/a			
3.3.2	Environmental performance*		46.6	106			
3.3.3	ISO 14001 environmental certificates/bn PPP\$ GDP..		0.1	119			
<b>MARKET SOPHISTICATION</b>				<b>31.4</b>	<b>125</b>		
<b>4.1</b>	<b>Credit</b>		<b>11.8</b>	<b>123</b>			
4.1.1	Ease of getting credit*		30.0	115			
4.1.2	Domestic credit to private sector, % GDP.Ⓞ		9.6	125 ○			
4.1.3	Microfinance gross loans, % GDP.Ⓞ		0.2	43 ●			
<b>4.2</b>	<b>Investment</b>		<b>40.0</b>	<b>[72]</b>			
4.2.1	Ease of protecting minority investors*		40.0	114			
4.2.2	Market capitalization, % GDP		n/a	n/a			
4.2.3	Venture capital deals/bn PPP\$ GDP		n/a	n/a			
<b>4.3</b>	<b>Trade, competition, &amp; market scale</b>		<b>42.3</b>	<b>125</b>			
4.3.1	Applied tariff rate, weighted avg., %		12.3	121			
4.3.2	Intensity of local competition*		75.9	21 ● ◆			
4.3.3	Domestic market scale, bn PPP\$		30.3	115			
<b>BUSINESS SOPHISTICATION</b>				<b>23.3</b>	<b>[110]</b>		
<b>5.1</b>	<b>Knowledge workers</b>		<b>16.6</b>	<b>[114]</b>			
5.1.1	Knowledge-intensive employment, %		n/a	n/a			
5.1.2	Firms offering formal training, % firms		16.0	83 ◇			
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			
<b>5.2</b>	<b>Innovation linkages</b>		<b>33.5</b>	<b>[42]</b>			
5.2.1	University/industry research collaboration*		67.2	14 ● ◆			
5.2.2	State of cluster development*		50.3	47 ● ◆			
5.2.3	GERD financed by abroad, %		n/a	n/a			
5.2.4	JV-strategic alliance deals/bn PPP\$ GDP		n/a	n/a			
5.2.5	Patent families 2+ offices/bn PPP\$ GDP		0.0	93 ○ ◇			
<b>5.3</b>	<b>Knowledge absorption</b>		<b>19.8</b>	<b>124</b> ◇			
5.3.1	Intellectual property payments, % total trade.Ⓞ		0.0	115			
5.3.2	High-tech imports, % total trade.Ⓞ		2.0	126 ○ ◇			
5.3.3	ICT services imports, % total trade		0.2	119 ◇			
5.3.4	FDI net inflows, % GDP		8.2	18 ●			
5.3.5	Research talent, % in business enterprise		n/a	n/a			
<b>KNOWLEDGE &amp; TECHNOLOGY OUTPUTS</b>				<b>2.9</b>	<b>129</b> ○ ◇		
<b>6.1</b>	<b>Knowledge creation</b>		<b>1.1</b>	<b>127</b> ○ ◇			
6.1.1	Patents by origin/bn PPP\$ GDP		0.0	122 ◇			
6.1.2	PCT patents by origin/bn PPP\$ GDP		0.0	99 ○ ◇			
6.1.3	Utility models by origin/bn PPP\$ GDP		n/a	n/a			
6.1.4	Scientific & technical articles/bn PPP\$ GDP		1.1	121 ◇			
6.1.5	Citable documents H-index		1.4	123 ◇			
<b>6.2</b>	<b>Knowledge impact</b>		<b>1.6</b>	<b>[128]</b>			
6.2.1	Growth rate of PPP\$ GDP/worker, %		n/a	n/a			
6.2.2	New businesses/th pop. 15-64.Ⓞ		0.1	98			
6.2.3	Computer software spending, % GDP		0.0	106			
6.2.4	ISO 9001 quality certificates/bn PPP\$ GDP		0.4	123			
6.2.5	High- & medium-high-tech manufactures, %		n/a	n/a			
<b>6.3</b>	<b>Knowledge diffusion</b>		<b>5.9</b>	<b>128</b> ○			
6.3.1	Intellectual property receipts, % total trade.Ⓞ		-0.1	109 ○ ◇			
6.3.2	High-tech net exports, % total trade.Ⓞ		0.1	108			
6.3.3	ICT services exports, % total trade		0.0	127 ○			
6.3.4	FDI net outflows, % GDP		0.1	99			
<b>CREATIVE OUTPUTS</b>				<b>19.6</b>	<b>98</b>		
<b>7.1</b>	<b>Intangible assets</b>		<b>38.6</b>	<b>77</b> ● ◆			
7.1.1	Trademarks by origin/bn PPP\$ GDP		8.4	108			
7.1.2	Industrial designs by origin/bn PPP\$ GDP		1.7	55 ●			
7.1.3	ICTs & business model creation*		68.2	35 ● ◆			
7.1.4	ICTs & organizational model creation*		60.0	45 ● ◆			
<b>7.2</b>	<b>Creative goods &amp; services</b>		<b>1.2</b>	<b>[123]</b>			
7.2.1	Cultural & creative services exports, % total trade		0.1	90			
7.2.2	National feature films/mn pop. 15-69.Ⓞ		0.8	85			
7.2.3	Entertainment & Media market/th pop. 15-69		n/a	n/a			
7.2.4	Printing & other media, % manufacturing		n/a	n/a			
7.2.5	Creative goods exports, % total trade.Ⓞ		0.0	120			
<b>7.3</b>	<b>Online creativity</b>		<b>0.0</b>	<b>128</b> ○			
7.3.1	Generic top-level domains (TLDs)/th pop. 15-69		0.0	126			
7.3.2	Country-code TLDs/th pop. 15-69		0.0	128 ○			
7.3.3	Wikipedia edits/mn pop. 15-69.Ⓞ		0.0	126 ○			
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.