

| Output rank | Input rank | Income | Region | Population (mn) | GDP, PPP\$ | GDP per capita, PPP\$ | GII 2018 rank |
|---|--|--------|--------|-----------------|------------|-----------------------|---------------|
| 125 | 114 | Low | SSF | 11.5 | 27.5 | 2,426.5 | n/a |
| | | | | Score/Value | Rank | | |
| INSTITUTIONS | | | | 56.6 | 87 | | |
| 1.1 | Political environment | | 42.3 | 98 | | | |
| 1.1.1 | Political and operational stability* | | 64.9 | 79 | | | |
| 1.1.2 | Government effectiveness* | | 30.9 | 109 | | | |
| 1.2 | Regulatory environment | | 62.0 | 74 ● | | | |
| 1.2.1 | Regulatory quality* | | 29.3 | 102 | | | |
| 1.2.2 | Rule of law* | | 29.8 | 98 | | | |
| 1.2.3 | Cost of redundancy dismissal, salary weeks | | 11.6 | 37 ● | | | |
| 1.3 | Business environment | | 65.6 | 80 | | | |
| 1.3.1 | Ease of starting a business* | | 90.6 | 52 ● | | | |
| 1.3.2 | Ease of resolving insolvency* | | 40.7 | 97 | | | |
| HUMAN CAPITAL & RESEARCH | | | | 21.1 | 92 ◆ | | |
| 2.1 | Education | | 36.8 | 96 | | | |
| 2.1.1 | Expenditure on education, % GDP | | 4.0 | 79 | | | |
| 2.1.2 | Government funding/pupil, secondary, % GDP/cap | | 10.8 | 93 | | | |
| 2.1.3 | School life expectancy, years | | 12.6 | 85 ◆ | | | |
| 2.1.4 | PISA scales in reading, maths, & science | | n/a | n/a | | | |
| 2.1.5 | Pupil-teacher ratio, secondary | | 11.0 | 38 ● ◆ | | | |
| 2.2 | Tertiary education | | 26.4 | 78 ◆ | | | |
| 2.2.1 | Tertiary enrolment, % gross | | 12.9 | 101 | | | |
| 2.2.2 | Graduates in science & engineering, % | | 20.7 | 59 ● | | | |
| 2.2.3 | Tertiary inbound mobility, % | | 8.3 | 24 ● ◆ | | | |
| 2.3 | Research & development (R&D) | | 0.0 | [120] | | | |
| 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 ○ ◆ | | | |
| INFRASTRUCTURE | | | | 27.7 | 118 | | |
| 3.1 | Information & communication technologies (ICTs) | | 31.1 | 118 | | | |
| 3.1.1 | ICT access* | | 31.4 | 115 | | | |
| 3.1.2 | ICT use* | | 8.9 | 124 ○ ◆ | | | |
| 3.1.3 | Government's online service* | | 47.2 | 108 | | | |
| 3.1.4 | E-participation* | | 37.1 | 114 | | | |
| 3.2 | General infrastructure | | 32.5 | 72 ● | | | |
| 3.2.1 | Electricity output, kWh/mn pop | | 32.7 | 119 ○ | | | |
| 3.2.2 | Logistics performance* | | 32.1 | 75 ● ◆ | | | |
| 3.2.3 | Gross capital formation, % GDP | | 28.4 | 25 ● | | | |
| 3.3 | Ecological sustainability | | 19.5 | 125 | | | |
| 3.3.1 | GDP/unit of energy use | | 4.8 | 110 | | | |
| 3.3.2 | Environmental performance* | | 38.2 | 120 | | | |
| 3.3.3 | ISO 14001 environmental certificates/bn PPP\$ GDP | | 0.1 | 126 ○ | | | |
| MARKET SOPHISTICATION | | | | 32.1 | 124 | | |
| 4.1 | Credit | | 25.7 | 106 | | | |
| 4.1.1 | Ease of getting credit* | | 30.0 | 115 | | | |
| 4.1.2 | Domestic credit to private sector, % GDP | | 22.7 | 108 | | | |
| 4.1.3 | Microfinance gross loans, % GDP | | 2.2 | 11 ● | | | |
| 4.2 | Investment | | 40.0 | [72] | | | |
| 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 | | | |
| 4.3 | Trade, competition, & market scale | | 30.7 | 126 ○ ◆ | | | |
| 4.3.1 | Applied tariff rate, weighted avg., % | | 17.8 | 128 ○ ◆ | | | |
| 4.3.2 | Intensity of local competition* | | 63.2 | 89 | | | |
| 4.3.3 | Domestic market scale, bn PPP\$ | | 27.5 | 117 | | | |
| BUSINESS SOPHISTICATION | | | | 19.9 | [121] | | |
| 5.1 | Knowledge workers | | 15.2 | [118] | | | |
| 5.1.1 | Knowledge-intensive employment, % | | n/a | n/a | | | |
| 5.1.2 | Firms offering formal training, % firms | | 20.0 | 75 | | | |
| 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, % | | 0.8 | 109 | | | |
| 5.2 | Innovation linkages | | 19.5 | [90] | | | |
| 5.2.1 | University/industry research collaboration† | | 30.8 | 104 | | | |
| 5.2.2 | State of cluster development† | | 33.4 | 114 | | | |
| 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 ○ ◆ | | | |
| 5.3 | Knowledge absorption | | 24.9 | 104 | | | |
| 5.3.1 | Intellectual property payments, % total trade | | 0.0 | 118 ○ | | | |
| 5.3.2 | High-tech imports, % total trade | | 3.6 | 121 | | | |
| 5.3.3 | ICT services imports, % total trade | | 1.1 | 63 ● | | | |
| 5.3.4 | FDI net inflows, % GDP | | 1.8 | 87 | | | |
| 5.3.5 | Research talent, % in business enterprise | | n/a | n/a | | | |
| KNOWLEDGE & TECHNOLOGY OUTPUTS | | | | 5.6 | 126 ○ ◆ | | |
| 6.1 | Knowledge creation | | 6.2 | 89 | | | |
| 6.1.1 | Patents by origin/bn PPP\$ GDP | | 0.1 | 108 | | | |
| 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 | | 8.6 | 55 ● ◆ | | | |
| 6.1.5 | Citable documents H-index | | 3.5 | 109 | | | |
| 6.2 | Knowledge impact | | 3.9 | [124] | | | |
| 6.2.1 | Growth rate of PPP\$ GDP/worker, % | | n/a | n/a | | | |
| 6.2.2 | New businesses/th pop. 15-64 | | n/a | n/a | | | |
| 6.2.3 | Computer software spending, % GDP | | 0.1 | 100 | | | |
| 6.2.4 | ISO 9001 quality certificates/bn PPP\$ GDP | | 1.6 | 95 | | | |
| 6.2.5 | High- & medium-high-tech manufactures, % | | n/a | n/a | | | |
| 6.3 | Knowledge diffusion | | 6.6 | 125 | | | |
| 6.3.1 | Intellectual property receipts, % total trade | | 0.0 | 107 | | | |
| 6.3.2 | High-tech net exports, % total trade | | 0.1 | 105 | | | |
| 6.3.3 | ICT services exports, % total trade | | 0.1 | 120 | | | |
| 6.3.4 | FDI net outflows, % GDP | | 0.3 | 82 | | | |
| CREATIVE OUTPUTS | | | | 13.1 | 124 | | |
| 7.1 | Intangible assets | | 26.0 | 118 | | | |
| 7.1.1 | Trademarks by origin/bn PPP\$ GDP | | 7.0 | 109 | | | |
| 7.1.2 | Industrial designs by origin/bn PPP\$ GDP | | 0.2 | 107 | | | |
| 7.1.3 | ICTs & business model creation† | | 49.9 | 105 | | | |
| 7.1.4 | ICTs & organizational model creation† | | 39.2 | 114 | | | |
| 7.2 | Creative goods & services | | 0.1 | [128] | | | |
| 7.2.1 | Cultural & creative services exports, % total trade | | 0.0 | 111 | | | |
| 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 | | n/a | n/a | | | |
| 7.2.5 | Creative goods exports, % total trade | | 0.0 | 128 ○ ◆ | | | |
| 7.3 | Online creativity | | 0.4 | 111 | | | |
| 7.3.1 | Generic top-level domains (TLDs)/th pop. 15-69 | | 0.6 | 103 ◆ | | | |
| 7.3.2 | Country-code TLDs/th pop. 15-69 | | 0.0 | 125 | | | |
| 7.3.3 | Wikipedia edits/mn pop. 15-69 | | 0.9 | 106 | | | |
| 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.