<table>
<thead>
<tr>
<th>Output rank</th>
<th>Input rank</th>
<th>Income</th>
<th>Region</th>
<th>Population (mn)</th>
<th>GDP, PPP$</th>
<th>GDP per capita, PPP$</th>
<th>Gil 2018 rank</th>
</tr>
</thead>
<tbody>
<tr>
<td>103</td>
<td>99</td>
<td>Upper middle</td>
<td>SSF</td>
<td>2.6</td>
<td>27.5</td>
<td>11,228.8</td>
<td>93</td>
</tr>
</tbody>
</table>

### INSTITUTIONS

#### 1.1 Political environment
- 1.1.1 Political and local control*... 59.4 54 ●
- 1.1.2 Government effectiveness*... 51.4 58 ●

#### 1.2 Regulatory environment
- 1.2.1 Regulatory quality*... 71.1 48 ●
- 1.2.2 Rule of law*... 36.9 84 ●
- 1.2.3 Cost of redundancy dismissal, salary weeks... 9.7 28 ●

#### 1.3 Business environment
- 1.3.1 Ease of starting a business*... 53.0 122 ○ □
- 1.3.2 Ease of resolving insolvency*... 37.0 107 ○ □

### HUMAN CAPITAL & RESEARCH

#### 2.1 Education
- 2.1.1 Expenditure on education, % GDP... 13.5 [119] ○ □
- 2.1.2 Government funding/pupil, % GDP/cap... n/a n/a ○ □
- 2.1.3 School life expectancy, years... 20.6 92 ○ □
- 2.1.4 PISA scales in reading, maths & science... n/a n/a ○ □
- 2.1.5 Pupil-teacher ratio, secondary... n/a n/a ○ □

#### 2.2 Tertiary education
- 2.2.1 Tertiary enrolment, % gross... 15.9 99 ○ □
- 2.2.2 Graduates in science & engineering, %... 13.0 96 ○ □
- 2.2.3 Tertiary enrolment mobility, %... 7.1 32 ● ○ □

#### 2.3 Research & development (R&D)
- 2.3.1 Researchers, FTE/mn pop,... 143.3 83 ●
- 2.3.2 Gross expenditure on R&D, % GDP... 0.3 73 ○ □
- 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

#### 3.1 Information & communication technologies (ICTs)
- 3.1.1 ICT access*... 45.4 98 ○ □
- 3.1.2 ICT use*... 32.3 99 ○ □
- 3.1.3 Government’s online service*... 45.1 111 ○ □
- 3.1.4 E-participation*... 39.3 111 ○ □

#### 3.2 General infrastructure
- 3.2.1 Electricity output, KWh/mn pop... 1,111.0 105 ○ □
- 3.2.2 Logistics performance*... n/a n/a ○ □
- 3.2.3 Gross capital formation, % GDP... 22.3 73 ○ □

#### 3.3 Ecological sustainability
- 3.3.1 GDP/unit of energy use... 11.9 30 ●
- 3.3.2 Environmental performance*... 58.5 69 ○ □
- 3.3.3 ISO 14001 environmental certificates/bn PPP$ GDP... 0.4 89 ○ □

### MARKET SOPHISTICATION

#### 4.1 Credit
- 4.1.1 Ease of getting credit*... 29.9 93 ○ □
- 4.1.2 Domestic credit to private sector, % GDP... 60.0 66 ○ □
- 4.1.3 Microfinance gross loans, % GDP... 63.8 50 ○ □

#### 4.2 Investment
- 4.2.1 Ease of protecting minority investors*... 36.7 93 ○ □
- 4.2.2 Market capitalization, % GDP... 51.7 89 ○ □
- 4.2.3 Venture capital deals/bn PPP$ GDP... n/a n/a ○ □

#### 4.3 Trade, competition, & market scale
- 4.3.1 Applied tariff rate, weighted avg, %... 3.9 10 ○ □
- 4.3.2 Intensity of local competition... 62.0 96 ●
- 4.3.3 Domestic market scale, bn PPP$ GDP... 27.5 118 ○ □

### BUSINESS SOPHISTICATION

#### 5.1 Knowledge workers
- 5.1.1 Knowledge-intensive employment, %... 46.0 46 ○ □
- 5.1.2 Firms offering formal training, % firms... 25.4 63 ○ □
- 5.1.3 GERS performed by business, % GDP... 0.0 73 ○ □
- 5.1.4 Females employed w/advanced degrees, %... 11.1 73 ○ □

### KNOWLEDGE & TECHNOLOGY OUTPUTS

#### 6.1 Knowledge creation
- 6.1.1 Patents by origin/bn PPP$ GDP... 0.4 81 ○ □
- 6.1.2 PCT patents by origin/bn PPP$ GDP... 0.1 63 ○ □
- 6.1.3 Utility models by origin/bn PPP$ GDP... n/a n/a ○ □
- 6.1.4 Scientific & technical articles/bn PPP$ GDP... 5.9 69 ○ □
- 6.1.5 Citable documents H-index... 3.7 106 ○ □

#### 6.2 Knowledge impact
- 6.2.1 Growth rate of PPP$ GDP/worker, %... 22.1 94 ○ □
- 6.2.2 New businesses/tth pop, 15-64... 0.9 74 ○ □
- 6.2.3 Computer software spending, % GDP... 0.1 82 ○ □
- 6.2.4 ISO 9001 quality certificates/bn PPP$ GDP... 1.5 97 ○ □
- 6.2.5 High- & medium-high-tech manufactures, %... 0.9 95 ○ □

### CREATIVE OUTPUTS

#### 7.1 Intangible assets
- 7.1.1 Trademarks by origin/bn PPP$ GDP... 12.3 79 ○ □
- 7.1.2 Industrial designs by origin/bn PPP$ GDP... n/a n/a ○ □
- 7.1.3 ICTs & business model creation*... 55.0 86 ○ □
- 7.1.4 ICTs & organizational model creation*... 46.7 94 ○ □

#### 7.2 Creative goods & services
- 7.2.1 Cultural & creative services exports, % total trade... 0.0 95 ○ □
- 7.2.2 National feature films mnp, 15-69... n/a n/a ○ □
- 7.2.3 Entertainment & Media market/tth 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... 0.3 69 ○ □

### Online creativity
- 7.3.1 Generic top-level domains (TLDs)/th pop, 15-69... 8.5 42 ○ □
- 7.3.2 Country-code TLDs/th pop, 15-69... 0.7 87 ○ □
- 7.3.3 Wikipedia edits/th pop, 15-69... 3.6 91 ○ □
- 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; * 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.