

**Key indicators**

|                             |         |
|-----------------------------|---------|
| Population (millions) ..... | 3.2     |
| GDP per capita, PPP\$ ..... | 7,780.2 |
| GDP (US\$ billions) .....   | 13.3    |

|  | Score (0–100)<br>or value (hard data) | Rank      |
|--|---------------------------------------|-----------|
| <b>Global Innovation Index 2012 (out of 141)</b> ..... | <b>30.4</b>                           | <b>90</b> |
| Innovation Output Sub-Index .....                      | 23.3                                  | 98        |
| Innovation Input Sub-Index .....                       | 37.4                                  | 82        |
| Innovation Efficiency Index .....                      | 0.6                                   | 112       |
| Global Innovation Index 2011 (out of 125) .....        |                                       | 80        |
| GII 2012 rank among GII 2011 economies (125) .....     |                                       | 85        |

|          |   |             |             |
|----------|---|-------------|-------------|
| <b>1</b> | <b>Institutions</b> .....                                       | <b>55.0</b> | <b>74</b>   |
| 1.1      | <b>Political environment</b> .....                              | <b>54.9</b> | <b>75</b>   |
| 1.1.1    | Political stability*.....                                       | 60.9        | 81          |
| 1.1.2    | Government effectiveness*.....                                  | 33.8        | 83          |
| 1.1.3    | Press freedom*.....   | 70.0        | 75          |
| 1.2      | <b>Regulatory environment</b> .....                             | <b>60.7</b> | <b>89</b>   |
| 1.2.1    | Regulatory quality*.....  | 57.5        | 65          |
| 1.2.2    | Rule of law*.....   | 36.1        | 84          |
| 1.2.3    | Cost of redundancy dismissal, salary weeks.....                 | 20.8        | 93          |
| 1.3      | <b>Business environment</b> .....                               | <b>49.3</b> | <b>68</b>   |
| 1.3.1    | Ease of starting a business*.....                               | 69.0        | 44          |
| 1.3.2    | Ease of resolving insolvency*.....                              | 61.1        | 55          |
| 1.3.3    | Ease of paying taxes*.....                                      | 17.9        | 115         |
| <b>2</b> | <b>Human capital &amp; research</b> .....                       | <b>26.2</b> | <b>106</b>  |
| 2.1      | <b>Education</b> .....  | <b>44.7</b> | <b>94</b>   |
| 2.1.1    | Current expenditure on education, % GNI .....                   | 2.8         | 112         |
| 2.1.2    | Public expenditure/pupil, % GDP/cap.....                        | n/a         | n/a         |
| 2.1.3    | School life expectancy, years.....                              | 11.4        | 99          |
| 2.1.4    | PISA scales in reading, maths, & science.....                   | 384.3       | 64          |
| 2.1.5    | Pupil-teacher ratio, secondary.....                             | 14.8        | 68          |
| 2.2      | <b>Tertiary education</b> .....                                 | <b>25.1</b> | <b>90</b>   |
| 2.2.1    | Tertiary enrolment, % gross.....                                | 18.4        | 90          |
| 2.2.2    | Graduates in science & engineering, % .....                     | 6.1         | 101 ○       |
| 2.2.3    | Tertiary inbound mobility, %.....                               | 0.9         | 74          |
| 2.2.4    | Gross tertiary outbound enrolment, % .....                      | 6.6         | 9 ●         |
| 2.3      | <b>Research &amp; development (R&amp;D)</b> .....               | <b>8.9</b>  | <b>129</b>  |
| 2.3.1    | Researchers, headcounts/mn pop. ....                            | 541.0       | 72          |
| 2.3.2    | Gross expenditure on R&D, % GDP.....                            | 0.2         | 92          |
| 2.3.3    | Quality of scientific research institutions† .....              | 19.6        | 127 ○       |
| <b>3</b> | <b>Infrastructure</b> .....                                     | <b>33.6</b> | <b>71</b>   |
| 3.1      | <b>Information &amp; communication technologies (ICT)</b> ..... | <b>27.3</b> | <b>85</b>   |
| 3.1.1    | ICT access*.....  | 39.3        | 77          |
| 3.1.2    | ICT use*.....   | 16.9        | 70          |
| 3.1.3    | Government's online service*.....                               | 42.5        | 88          |
| 3.1.4    | E-participation*.....   | 10.5        | 93          |
| 3.2      | <b>General infrastructure</b> .....                             | <b>30.2</b> | <b>100</b>  |
| 3.2.1    | Electricity output, kWh/cap.....                                | 1,651.9     | 82          |
| 3.2.2    | Electricity consumption, kWh/cap.....                           | 1,768.0     | 73          |
| 3.2.3    | Quality of trade & transport infrastructure*.....               | 28.5        | 106         |
| 3.2.4    | Gross capital formation, % GDP.....                             | 25.9        | 34 ●        |
| 3.3      | <b>Ecological sustainability</b> .....                          | <b>43.3</b> | <b>32 ●</b> |
| 3.3.1    | GDP/unit of energy use, 2000 PPP\$/kg oil eq.....               | 10.6        | 10 ●        |
| 3.3.2    | Environmental performance*.....                                 | 65.9        | 15 ●        |
| 3.3.3    | ISO 14001 environmental certificates/bn PPP\$ GDP .....         | 0.0         | 132 ○       |
| <b>4</b> | <b>Market sophistication</b> .....                              | <b>49.7</b> | <b>32 ●</b> |
| 4.1      | <b>Credit</b> .....   | <b>41.9</b> | <b>41</b>   |
| 4.1.1    | Ease of getting credit*.....                                    | 77.4        | 21 ●        |
| 4.1.2    | Domestic credit to private sector, % GDP.....                   | 38.0        | 84          |
| 4.1.3    | Microfinance gross loans, % GDP .....                           | 3.1         | 17 ●        |

|       |  |             |             |
|-------|--|-------------|-------------|
| 4.2   | <b>Investment</b> .....                  | <b>45.0</b> | <b>25 ●</b> |
| 4.2.1 | Ease of protecting investors*.....       | 89.9        | 15 ●        |
| 4.2.2 | Market capitalization, % GDP.....        | n/a         | n/a         |
| 4.2.3 | Total value of stocks traded, % GDP..... | n/a         | n/a         |
| 4.2.4 | Venture capital deals/tr PPP\$ GDP.....  | 0.0         | 65 ○        |

|       |   |             |           |
|-------|---|-------------|-----------|
| 4.3   | <b>Trade &amp; competition</b> .....                | <b>62.4</b> | <b>75</b> |
| 4.3.1 | Applied tariff rate, weighted mean, %.....          | 5.1         | 79        |
| 4.3.2 | Non-agricultural mkt access weighted tariff, %..... | 0.2         | 30 ●      |
| 4.3.3 | Imports of goods & services, % GDP .....            | 51.8        | 47        |
| 4.3.4 | Exports of goods & services, % GDP .....            | 29.8        | 88        |
| 4.3.5 | Intensity of local competition† .....               | 50.5        | 118       |

**5 Business sophistication**.....**22.6** **138** ○

|       |  |             |            |
|-------|--|-------------|------------|
| 5.1   | <b>Knowledge workers</b> .....               | <b>27.7</b> | <b>121</b> |
| 5.1.1 | Knowledge-intensive employment, %.....       | n/a         | n/a        |
| 5.1.2 | Firms offering formal training, % firms..... | 19.9        | 91         |
| 5.1.3 | R&D performed by business, %.....            | 0.0         | 89 ○       |
| 5.1.4 | R&D financed by business, % .....            | 3.3         | 81         |
| 5.1.5 | GMAT mean score.....                         | 492.6       | 79         |
| 5.1.6 | GMAT test takers/mn pop. 20–34.....          | 156.6       | 38 ●       |

|       |   |             |              |
|-------|---|-------------|--------------|
| 5.2   | <b>Innovation linkages</b> .....                  | <b>17.0</b> | <b>135</b> ○ |
| 5.2.1 | University/industry research collaboration† ..... | 17.7        | 131 ○        |
| 5.2.2 | State of cluster development† .....               | 26.9        | 121          |
| 5.2.3 | R&D financed by abroad, %.....                    | 7.4         | 44           |
| 5.2.4 | JV–strategic alliance deals/tr PPP\$ GDP .....    | 0.0         | 114 ○        |
| 5.2.5 | PCT patent filings with foreign inventor, %.....  | n/a         | n/a          |

**5.3 Knowledge absorption**.....**23.0** **134** ○

|       |   |     |       |
|-------|---|-----|-------|
| 5.3.1 | Royalty & license fees payments/th GDP..... | 1.0 | 72    |
| 5.3.2 | High-tech imports less re-imports, % .....  | 4.7 | 108   |
| 5.3.3 | Computer & comm. service imports, %.....    | 8.9 | 127 ○ |
| 5.3.4 | FDI net inflows, % GDP.....                 | 9.4 | 15 ●  |

**6 Knowledge & technology outputs**.....**18.5** **113**

|       |   |             |            |
|-------|---|-------------|------------|
| 6.1   | <b>Knowledge creation</b> .....                   | <b>12.8</b> | <b>104</b> |
| 6.1.1 | Domestic resident patent ap/bn PPP\$ GDP .....    | n/a         | n/a        |
| 6.1.2 | PCT resident patent ap/bn PPP\$ GDP .....         | 0.0         | 95         |
| 6.1.3 | Domestic res utility model ap/bn PPP\$ GDP.....   | 0.0         | 62 ○       |
| 6.1.4 | Scientific & technical articles/bn PPP\$ GDP..... | 0.4         | 134 ○      |

**6.2 Knowledge impact**.....**25.7** **99**

|       |  |     |     |
|-------|--|-----|-----|
| 6.2.1 | Growth rate of PPP\$ GDP/worker, %.....          | 1.6 | 81  |
| 6.2.2 | New businesses/th pop. 15–64.....                | 0.8 | 67  |
| 6.2.3 | Computer software spending, % GDP.....           | n/a | n/a |
| 6.2.4 | ISO 9001 quality certificates/bn PPP\$ GDP ..... | 2.2 | 92  |

**6.3 Knowledge diffusion**.....**17.1** **113**

|       |   |      |     |
|-------|---|------|-----|
| 6.3.1 | Royalty & license fees receipts/th GDP..... | 0.1  | 77  |
| 6.3.2 | High-tech exports less re-exports, %.....   | 0.9  | 74  |
| 6.3.3 | Computer & comm. service exports, % .....   | 12.6 | 112 |
| 6.3.4 | FDI net outflows, % GDP .....               | 0.0  | 100 |

**7 Creative outputs**.....**28.1** **88**

|       |   |             |           |
|-------|---|-------------|-----------|
| 7.1   | <b>Creative intangibles</b> .....               | <b>35.0</b> | <b>91</b> |
| 7.1.1 | Domestic res trademark reg/bn PPP\$ GDP.....    | n/a         | n/a       |
| 7.1.2 | Madrid resident trademark reg/bn PPP\$ GDP..... | 0.0         | 57        |
| 7.1.3 | ICT & business model creation† .....            | 53.0        | 62        |
| 7.1.4 | ICT & organizational model creation† .....      | 51.3        | 56        |

**7.2 Creative goods & services**.....**20.1** **73**

|       |  |      |     |
|-------|--|------|-----|
| 7.2.1 | Recreation & culture consumption, %.....         | n/a  | n/a |
| 7.2.2 | National feature films/mn pop. 15–69.....        | n/a  | n/a |
| 7.2.3 | Paid-for dailies, circulation/th pop. 15–69..... | 31.0 | 95  |
| 7.2.4 | Creative goods exports, %.....                   | 2.0  | 46  |
| 7.2.5 | Creative services exports, %.....                | 5.9  | 33  |

**7.3 Online creativity**.....**22.4** **66**

|       |   |       |    |
|-------|---|-------|----|
| 7.3.1 | Generic top-level domains (TLDs)/th pop. 15–69..... | 2.1   | 83 |
| 7.3.2 | Country-code TLDs/th pop. 15–69.....                | 19.5  | 75 |
| 7.3.3 | Wikipedia monthly edits/mn pop. 15–69.....          | 878.2 | 67 |
| 7.3.4 | Video uploads on YouTube/pop. 15–69.....            | 63.3  | 43 |