

Key indicators

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|----------------------------|---------------------|
| Population (millions)..... | 0.6 |
| GDP (US\$ billions)..... | 4.5 |
| GDP per capita, PPP\$..... | 12,412.0 |
| Income group..... | Upper-middle income |
| Region..... | Europe |

| | Score 0–100 or value (hard data) | Rank |
|--|-------------------------------------|-----------|
| Global Innovation Index (out of 141)..... | 41.2 | 41 |
| Innovation Output Sub-Index..... | 36.5 | 40 |
| Innovation Input Sub-Index..... | 45.9 | 50 |
| Innovation Efficiency Ratio..... | 0.8 | 29 ● |
| Global Innovation Index 2014 (out of 143)..... | 37.0 | 59 |
| 1 Institutions..... | 69.5 | 47 |
| 1.1 Political environment..... | 60.9 | 51 |
| 1.1.1 Political stability*..... | 76.1 | 45 |
| 1.1.2 Government effectiveness*..... | 45.6 | 60 |
| 1.2 Regulatory environment..... | 71.1 | 48 |
| 1.2.1 Regulatory quality*..... | 49.1 | 71 |
| 1.2.2 Rule of law*..... | 48.2 | 61 |
| 1.2.3 Cost of redundancy dismissal, salary weeks..... | 11.2 | 42 |
| 1.3 Business environment..... | 76.6 | 38 |
| 1.3.1 Ease of starting a business*..... | 90.1 | 47 |
| 1.3.2 Ease of resolving insolvency*..... | 68.2 | 31 ● |
| 1.3.3 Ease of paying taxes*..... | 71.6 | 77 |
| 2 Human capital & research..... | 35.9 | 49 |
| 2.1 Education..... | 54.3 | 33 |
| 2.1.1 Expenditure on education, % GDP..... | n/a | n/a |
| 2.1.2 Gov't expenditure/pupil, secondary, % GDP/cap..... | n/a | n/a |
| 2.1.3 School life expectancy, years [Ⓔ] | 15.2 | 39 |
| 2.1.4 PISA scales in reading, maths, & science..... | 413.9 | 49 ○ |
| 2.1.5 Pupil-teacher ratio, secondary..... | n/a | n/a |
| 2.2 Tertiary education..... | 47.2 | 23 |
| 2.2.1 Tertiary enrolment, % gross [Ⓔ] | 55.5 | 46 |
| 2.2.2 Graduates in science & engineering, %..... | n/a | n/a |
| 2.2.3 Tertiary inbound mobility, %..... | n/a | n/a |
| 2.3 Research & development (R&D)..... | 6.2 | 77 |
| 2.3.1 Researchers, FTE/mn pop. [Ⓔ] | 762.9 | 52 |
| 2.3.2 Gross expenditure on R&D, % GDP [Ⓔ] | 0.4 | 68 |
| 2.3.3 QS university ranking, average score top 3*..... | 0.0 | 73 ○ |
| 3 Infrastructure..... | 39.3 | 70 |
| 3.1 Information & communication technologies (ICTs)..... | 53.2 | 51 |
| 3.1.1 ICT access*..... | 67.4 | 51 |
| 3.1.2 ICT use*..... | 33.7 | 62 |
| 3.1.3 Government's online service*..... | 52.8 | 60 |
| 3.1.4 E-participation*..... | 58.8 | 49 |
| 3.2 General infrastructure..... | 27.5 | 84 |
| 3.2.1 Electricity output, kWh/cap..... | 4587.1 | 47 |
| 3.2.2 Logistics performance*..... | 36.4 | 64 |
| 3.2.3 Gross capital formation, % GDP..... | 19.6 | 92 |
| 3.3 Ecological sustainability..... | 37.2 | 73 |
| 3.3.1 GDP/unit of energy use, 2005 PPP\$/kg oil eq..... | 6.2 | 85 ○ |
| 3.3.2 Environmental performance*..... | 55.5 | 57 |
| 3.3.3 ISO 14001 environmental certificates/bn PPP\$ GDP..... | 2.6 | 39 |
| 4 Market sophistication..... | 51.0 | 50 |
| 4.1 Credit..... | 38.3 | 47 |
| 4.1.1 Ease of getting credit*..... | 90.0 | 4 ● |
| 4.1.2 Domestic credit to private sector, % GDP..... | 53.6 | 62 |
| 4.1.3 Microfinance gross loans, % GDP..... | 0.7 | 42 |

| | | |
|---|-------------|-------------|
| 4.2 Investment..... | 45.2 | 40 |
| 4.2.1 Ease of protecting investors*..... | 60.8 | 41 |
| 4.2.2 Market capitalization, % GDP..... | 94.6 | 17 ● |
| 4.2.3 Total value of stocks traded, % GDP..... | 1.1 | 64 |
| 4.2.4 Venture capital deals/tr PPP\$ GDP..... | n/a | n/a |
| 4.3 Trade & competition..... | 69.5 | 97 |
| 4.3.1 Applied tariff rate, weighted mean, %..... | 2.6 | 54 |
| 4.3.2 Intensity of local competition [†] | 48.0 | 128 ○ |
| 5 Business sophistication..... | 34.0 | 71 |
| 5.1 Knowledge workers..... | 35.1 | 80 |
| 5.1.1 Knowledge-intensive employment, % [Ⓔ] | 37.2 | 29 |
| 5.1.2 Firms offering formal training, % firms..... | 23.7 | 81 ○ |
| 5.1.3 GERD performed by business, % of GDP [Ⓔ] | 0.1 | 60 |
| 5.1.4 GERD financed by business, % [Ⓔ] | 22.3 | 57 |
| 5.1.5 Females employed w/advanced degrees, % total..... | n/a | n/a |
| 5.2 Innovation linkages..... | 29.0 | 85 |
| 5.2.1 University/industry research collaboration [†] | 49.1 | 45 |
| 5.2.2 State of cluster development [†] | 33.8 | 117 ○ |
| 5.2.3 GERD financed by abroad, % [Ⓔ] | 15.3 | 31 |
| 5.2.4 JV-strategic alliance deals/tr PPP\$ GDP..... | n/a | n/a |
| 5.2.5 Patent families 3+ offices/bn PPP\$ GDP [Ⓔ] | 0.1 | 39 |
| 5.3 Knowledge absorption..... | 38.0 | 47 |
| 5.3.1 Royalty & license fees payments, % total trade..... | 0.2 | 88 ○ |
| 5.3.2 High-tech imports less re-imports, % total trade..... | 4.9 | 102 ○ |
| 5.3.3 Comm., computer & info. services imp., % total trade..... | 1.9 | 19 ● |
| 5.3.4 FDI net inflows, % GDP..... | 10.1 | 12 ● |
| 6 Knowledge & technology outputs..... | 28.4 | 54 |
| 6.1 Knowledge creation..... | 13.5 | 63 |
| 6.1.1 Domestic resident patent app./bn PPP\$ GDP..... | 2.5 | 39 |
| 6.1.2 PCT resident patent app./bn PPP\$ GDP..... | 0.1 | 63 |
| 6.1.3 Domestic res utility model app./bn PPP\$ GDP..... | n/a | n/a |
| 6.1.4 Scientific & technical articles/bn PPP\$ GDP..... | 21.6 | 37 |
| 6.1.5 Citable documents H index..... | 23.0 | 138 ○ |
| 6.2 Knowledge impact..... | 48.6 | 23 |
| 6.2.1 Growth rate of PPP\$ GDP/worker, %..... | n/a | n/a |
| 6.2.2 New businesses/th pop. 15–64 [Ⓔ] | 10.7 | 11 ● |
| 6.2.3 Computer software spending, % GDP..... | n/a | n/a |
| 6.2.4 ISO 9001 quality certificates/bn PPP\$ GDP..... | 12.9 | 30 ● |
| 6.2.5 High- & medium-high-tech manufactures, %..... | n/a | n/a |
| 6.3 Knowledge diffusion..... | 23.3 | 97 ○ |
| 6.3.1 Royalty & license fees receipts, % total trade..... | 0.0 | 78 |
| 6.3.2 High-tech exports less re-exports, % total trade..... | 0.3 | 89 |
| 6.3.3 Comm., computer & info. services exp., % total trade..... | 2.0 | 39 |
| 6.3.4 FDI net outflows, % GDP..... | 0.4 | 68 |
| 7 Creative outputs..... | 44.6 | 26 ● |
| 7.1 Intangible assets..... | 48.1 | 59 |
| 7.1.1 Domestic res trademark app./bn PPP\$ GDP..... | n/a | n/a |
| 7.1.2 Madrid trademark app. holders/bn PPP\$ GDP..... | 1.5 | 20 |
| 7.1.3 ICTs & business model creation [†] | 53.8 | 75 |
| 7.1.4 ICTs & organizational model creation [†] | 48.9 | 82 |
| 7.2 Creative goods & services..... | 28.8 | 41 |
| 7.2.1 Cultural & creative services exports, % total trade..... | 1.3 | 7 ● |
| 7.2.2 National feature films/mn pop. 15–69..... | n/a | n/a |
| 7.2.3 Global ent. & media output/th pop. 15–69..... | n/a | n/a |
| 7.2.4 Printing & publishing output manufactures, %..... | n/a | n/a |
| 7.2.5 Creative goods exports, % total trade..... | 0.1 | 85 |
| 7.3 Online creativity..... | 53.3 | 20 ● |
| 7.3.1 Generic top-level domains (TLDs)/th pop. 15–69..... | 1.7 | 94 |
| 7.3.2 Country-code TLDs/th pop. 15–69..... | 100.0 | 1 ● |
| 7.3.3 Wikipedia edits/pop. 15–69..... | 5218.3 | 24 ● |
| 7.3.4 Video uploads on YouTube/pop. 15–69..... | 73.1 | 52 ○ |

NOTES: ● indicates a strength; ○ a weakness; * an index; † a survey question.

Ⓔ indicates that the country's data are older than the base year; see Appendix II for details, including the year of the data.