GII 2022 rank

# Türkiye

**37**

| Output rank | Input rank | Income | Region | Population (mn) | GDP, PPP$ (bn) | GDP per capita, PPP$ |
|---|---|---|---|---|---|---|
| 33 | 49 | Upper middle | NAWA | 85.0 | 2,873.8 | 33,963 |

| | | Score/ Value | Rank |
|---|---|---|---|
| | **Institutions** | **46.8** | **101 ○** |
| **1.1** | **Political environment** | **55.3** | **81** |
| 1.1.1 | Political and operational stability* | 61.8 | 87 ○ |
| 1.1.2 | Government effectiveness* | 48.8 | 73 |
| **1.2** | **Regulatory environment** | **48.8** | **109 ○ ◇** |
| 1.2.1 | Regulatory quality* | 44.7 | 74 |
| 1.2.2 | Rule of law* | 36.8 | 83 |
| 1.2.3 | Cost of redundancy dismissal | 29.8 | 119 ○ ◇ |
| **1.3** | **Business environment** | **36.4** | **92** |
| 1.3.1 | Policies for doing business† | 38.4 | 99 ○ |
| 1.3.2 | Entrepreneurship policies and culture* | 34.3 | 47 |
| | **Human capital and research** | **38.9** | **41 ◆** |
| **2.1** | **Education** | **52.5** | **66** |
| 2.1.1 | Expenditure on education, % GDP ⊘ | 4.3 | 65 |
| 2.1.2 | Government funding/pupil, secondary, % GDP/cap | 13.2 | 87 ○ |
| 2.1.3 | School life expectancy, years | 18.3 | 11 ● ◆ |
| 2.1.4 | PISA scales in reading, maths and science | 462.5 | 41 |
| 2.1.5 | Pupil-teacher ratio, secondary | 15.5 | 77 |
| **2.2** | **Tertiary education** | **33.8** | **56** |
| 2.2.1 | Tertiary enrolment, % gross | 115.0 | 2 ● ◆ |
| 2.2.2 | Graduates in science and engineering, % | 15.2 | 97 ○ |
| 2.2.3 | Tertiary inbound mobility, % | 2.0 | 78 |
| **2.3** | **Research and development (R&D)** | **30.3** | **36 ◆** |
| 2.3.1 | Researchers, FTE/mn pop. | 1,775.3 | 42 ◆ |
| 2.3.2 | Gross expenditure on R&D, % GDP | 1.1 | 39 ◆ |
| 2.3.3 | Global corporate R&D investors, top 3, mn US$ | 48.5 | 29 ◆ |
| 2.3.4 | QS university ranking, top 3* | 22.4 | 46 |
| | **Infrastructure** | **49.2** | **48** |
| **3.1** | **Information and communication technologies (ICTs)** | **82.2** | **38** |
| 3.1.1 | ICT access* | 87.5 | 64 |
| 3.1.2 | ICT use* | 66.3 | 60 |
| 3.1.3 | Government's online service* | 85.9 | 22 ◆ |
| 3.1.4 | E-participation* | 89.3 | 23 ◆ |
| **3.2** | **General infrastructure** | **39.0** | **41 ◆** |
| 3.2.1 | Electricity output, GWh/mn pop. | 3,662.7 | 57 |
| 3.2.2 | Logistics performance* | 51.2 | 44 |
| 3.2.3 | Gross capital formation, % GDP | 32.1 | 16 ● ◆ |
| **3.3** | **Ecological sustainability** | **26.5** | **61** |
| 3.3.1 | GDP/unit of energy use | 16.1 | 17 ● ◆ |
| 3.3.2 | Environmental performance* | 26.3 | 125 ○ ◇ |
| 3.3.3 | ISO 14001 environmental certificates/bn PPP$ GDP | 1.2 | 66 |
| | **Market sophistication** | **41.6** | **37** |
| **4.1** | **Credit** | **34.9** | **39** |
| 4.1.1 | Finance for startups and scaleups* | 42.4 | 35 |
| 4.1.2 | Domestic credit to private sector, % GDP | 75.1 | 44 |
| 4.1.3 | Loans from microfinance institutions, % GDP | n/a | n/a |
| **4.2** | **Investment** | **7.9** | **61** |
| 4.2.1 | Market capitalization, % GDP | 25.5 | 53 |
| 4.2.2 | Venture capital investors, deals/bn PPP$ GDP | 0.0 | 76 ○ |
| 4.2.3 | Venture capital recipients, deals/bn PPP$ GDP | 0.0 | 76 ○ |
| 4.2.4 | Venture capital received, value, % GDP | 0.0 | 33 |
| **4.3** | **Trade, diversification, and market scale** | **81.9** | **11 ● ◆** |
| 4.3.1 | Applied tariff rate, weighted avg., % | 2.8 | 71 |
| 4.3.2 | Domestic industry diversification | 99.7 | 3 ● |
| 4.3.3 | Domestic market scale, bn PPP$ | 2,873.8 | 11 ● ◆ |

| | | Score/ Value | Rank |
|---|---|---|---|
| | **Business sophistication** | **32.5** | **47** |
| **5.1** | **Knowledge workers** | **38.1** | **52** |
| 5.1.1 | Knowledge-intensive employment, % ⊘ | 24.0 | 63 |
| 5.1.2 | Firms offering formal training, % | 30.7 | 54 |
| 5.1.3 | GERD performed by business, % GDP | 0.7 | 33 ◆ |
| 5.1.4 | GERD financed by business, % | 57.2 | 17 ◆ |
| 5.1.5 | Females employed w/advanced degrees, % ⊘ | 11.0 | 68 |
| **5.2** | **Innovation linkages** | **21.5** | **75** |
| 5.2.1 | University-industry R&D collaboration† | 43.1 | 68 |
| 5.2.2 | State of cluster development and depth† | 48.9 | 58 |
| 5.2.3 | GERD financed by abroad, % GDP | 0.0 | 60 |
| 5.2.4 | Joint venture/strategic alliance deals/bn PPP$ GDP | 0.0 | 116 ○ |
| 5.2.5 | Patent families/bn PPP$ GDP | 0.3 | 38 ◆ |
| **5.3** | **Knowledge absorption** | **37.9** | **44** |
| 5.3.1 | Intellectual property payments, % total trade | 0.9 | 44 |
| 5.3.2 | High-tech imports, % total trade | 9.2 | 51 |
| 5.3.3 | ICT services imports, % total trade | 0.8 | 92 |
| 5.3.4 | FDI net inflows, % GDP | 1.3 | 91 |
| 5.3.5 | Research talent, % in businesses | 64.9 | 7 ● ◆ |
| | **Knowledge and technology outputs** | **27.4** | **47** |
| **6.1** | **Knowledge creation** | **24.6** | **37** |
| 6.1.1 | Patents by origin/bn PPP$ GDP | 3.3 | 24 |
| 6.1.2 | PCT patents by origin/bn PPP$ GDP | 0.6 | 31 |
| 6.1.3 | Utility models by origin/bn PPP$ GDP | 1.4 | 17 |
| 6.1.4 | Scientific and technical articles/bn PPP$ GDP | 16.8 | 60 |
| 6.1.5 | Citable documents H-index | 29.3 | 35 ◆ |
| **6.2** | **Knowledge impact** | **34.9** | **39** |
| 6.2.1 | Labor productivity growth, % | 3.5 | 10 ● ◆ |
| 6.2.2 | New businesses/th pop. 15–64 | 1.8 | 63 |
| 6.2.3 | Software spending, % GDP | 0.5 | 20 ◆ |
| 6.2.4 | ISO 9001 quality certificates/bn PPP$ GDP | 3.4 | 70 |
| 6.2.5 | High-tech manufacturing, % | 31.5 | 40 |
| **6.3** | **Knowledge diffusion** | **22.8** | **67** |
| 6.3.1 | Intellectual property receipts, % total trade | 0.1 | 66 |
| 6.3.2 | Production and export complexity | 56.0 | 40 |
| 6.3.3 | High-tech exports, % total trade | 1.9 | 63 |
| 6.3.4 | ICT services exports, % total trade | 0.7 | 93 |
| | **Creative outputs** | **41.5** | **15 ● ◆** |
| **7.1** | **Intangible assets** | **72.2** | **4 ● ◆** |
| 7.1.1 | Intangible asset intensity, top 15, % | 72.8 | 15 |
| 7.1.2 | Trademarks by origin/bn PPP$ GDP | 130.2 | 6 ● ◆ |
| 7.1.3 | Global brand value, top 5,000, % GDP | 14.8 | 51 |
| 7.1.4 | Industrial designs by origin/bn PPP$ GDP | 16.5 | 1 ● ◆ |
| **7.2** | **Creative goods and services** | **13.2** | **72** |
| 7.2.1 | Cultural and creative services exports, % total trade | 0.2 | 77 |
| 7.2.2 | National feature films/mn pop. 15–69 | 2.4 | 44 |
| 7.2.3 | Entertainment and media market/th pop. 15–69 | 4.3 | 48 ○ |
| 7.2.4 | Printing and other media, % manufacturing | 0.7 | 70 |
| 7.2.5 | Creative goods exports, % total trade | 2.6 | 19 |
| **7.3** | **Online creativity** | **8.6** | **48** |
| 7.3.1 | Generic top-level domains (TLDs)/th pop. 15–69 | 11.3 | 37 |
| 7.3.2 | Country-code TLDs/th pop. 15–69 | 2.2 | 67 |
| 7.3.3 | GitHub commits/mn pop. 15–69 | 3.6 | 68 |
| 7.3.4 | Mobile app creation/bn PPP$ GDP | 17.2 | 17 ◆ |

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 appendices for details, including the year of the data, at https://www.wipo.int/global_innovation_index/en/2022. Square brackets [ ] indicate that the data minimum coverage (DMC) requirements were not met at the sub-pillar or pillar level.