

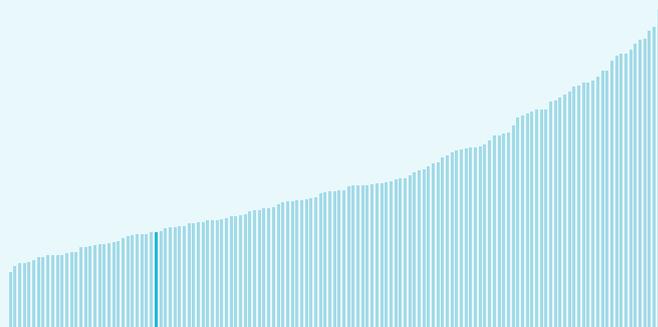
# Global Innovation Index 2025



## Tajikistan ranking in the Global Innovation Index 2025

Tajikistan ranks **108th** among the 139 economies featured in the GII 2025.

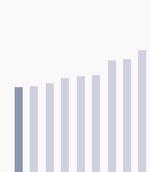
The Global Innovation Index (GII) ranks world economies according to their innovation capabilities. Consisting of roughly 80 indicators, grouped into innovation inputs and outputs, the GII aims to capture the multi-dimensional facets of innovation.



Tajikistan ranks 21st among the 37 Lower middle-income group economies.



Tajikistan ranks 10th among the 10 economies in Central and Southern Asia.



### › Tajikistan GII Ranking (2020-2025)

The table shows the rankings of Tajikistan over the past six years. Data availability and changes to the GII model framework influence year-on-year comparisons of the GII rankings. The statistical confidence interval for the ranking of Tajikistan in the GII 2025 is between ranks 95 and 110.

| Year | GII Position | Innovation Inputs | Innovation Outputs |
|------|--------------|-------------------|--------------------|
| 2020 | 109th        | 108th             | 99th               |
| 2021 | 103rd        | 104th             | 96th               |
| 2022 | 104th        | 104th             | 101st              |
| 2023 | 111st        | 109th             | 107th              |
| 2024 | 107th        | 106th             | 104th              |
| 2025 | 108th        | 105th             | 104th              |

Tajikistan performs better in innovation outputs than innovation inputs in 2025.

This year Tajikistan ranks 105th in innovation inputs. This position is higher than last year.

Tajikistan ranks 104th in innovation outputs. This position is the same as last year.

Tajikistan has no clusters in the world's top innovation clusters of the Global Innovation Index.

# Global Innovation Index 2025



## > Global Innovation Tracker

The Global Innovation Tracker 2025 shows what is the current state of innovation in Tajikistan, how rapidly is technology being embraced and what are the resulting societal impacts.



For Tajikistan, 4 indicators have improved in the short-term and 2 indicators have worsened.

### Science and innovation investment

|                              | Scientific publications | R&D investments        | Venture capital deal numbers | International patent filings |
|------------------------------|-------------------------|------------------------|------------------------------|------------------------------|
| Short term                   | ▲ 21.5 %<br>2023 - 2024 | 0 %<br>2019 - 2020     | ▼ -33.3 %<br>2023 - 2024     | n/a                          |
| Long term<br>(annual growth) | ▲ 13.4 %<br>2014 - 2024 | ▲ 6.9 %<br>2010 - 2020 | n/a                          | n/a                          |

### Technology adoption

|                              | Safe sanitation | Connectivity                           |     | Robots | Electric vehicles |
|------------------------------|-----------------|--|-----|--------|-------------------|
|                              |                 | Fixed broadband                        | 5G  |        |                   |
| Short term                   | n/a             | ▲ 4%<br>2021 - 2022                    | n/a | n/a    | n/a               |
| Long term<br>(annual growth) | n/a             | ▲ 1.5%<br>2012 - 2022                  | n/a | n/a    | n/a               |
| Penetration                  | n/a             | 0.06<br>per 100 inhabitants in<br>2022 | n/a | n/a    | n/a               |

### Socioeconomic impact

|                              | Labor productivity      | Life expectancy        | Temperature change |
|------------------------------|-------------------------|------------------------|--------------------|
| Short term                   | ▲ 4.6 %<br>2023 - 2024  | ▲ 0.3 %<br>2022 - 2023 | + 2 °C<br>2024     |
| Long term<br>(annual growth) | ▲ 5 %<br>2014 - 2024    | ▲ 0.3 %<br>2013 - 2023 | + 0.4 °C<br>2014   |
| Level                        | 20,293.3<br>USD in 2024 | 71.8<br>years in 2023  | n/a                |

Notes: Not all indicators of the Global Innovation Tracker are used to calculate the Global Innovation Index. Long-term annual growth refers to the compound annual growth rate (CAGR) over the indicated period. For each variable, a one-year growth rate is set for the short run, and ten-year CAGR is set for the long run; time windows might differ when gaps exist in data availability. The end period corresponds to the most recent available observation, which may differ among countries. Temperature change is an exception: it indicates the change in degrees Celsius with respect to the average temperature in the countries. from 1951–1980. Figures are rounded.

# Global Innovation Index 2025



## Expected vs. Observed Innovation Performance

The bubble chart below shows the relationship between income levels (GDP per capita) and innovation performance (GII score). The trend line gives an indication of the expected innovation performance according to income level. Economies appearing above the trend line are performing better than expected and those below are performing below expectations.



Relative to GDP Tajikistan performs at expectations for its level of development.

### > Innovation overperformers relative to their economic development



# Global Innovation Index 2025



## Effectively translating innovation investments into innovation outputs

The chart below shows the relationship between innovation inputs and innovation outputs. Economies above the line are effectively translating costly innovation investments into more and higher-quality outputs.



Tajikistan produces less innovation outputs relative to its level of innovation investments.

### > Relationship between innovation inputs and outputs

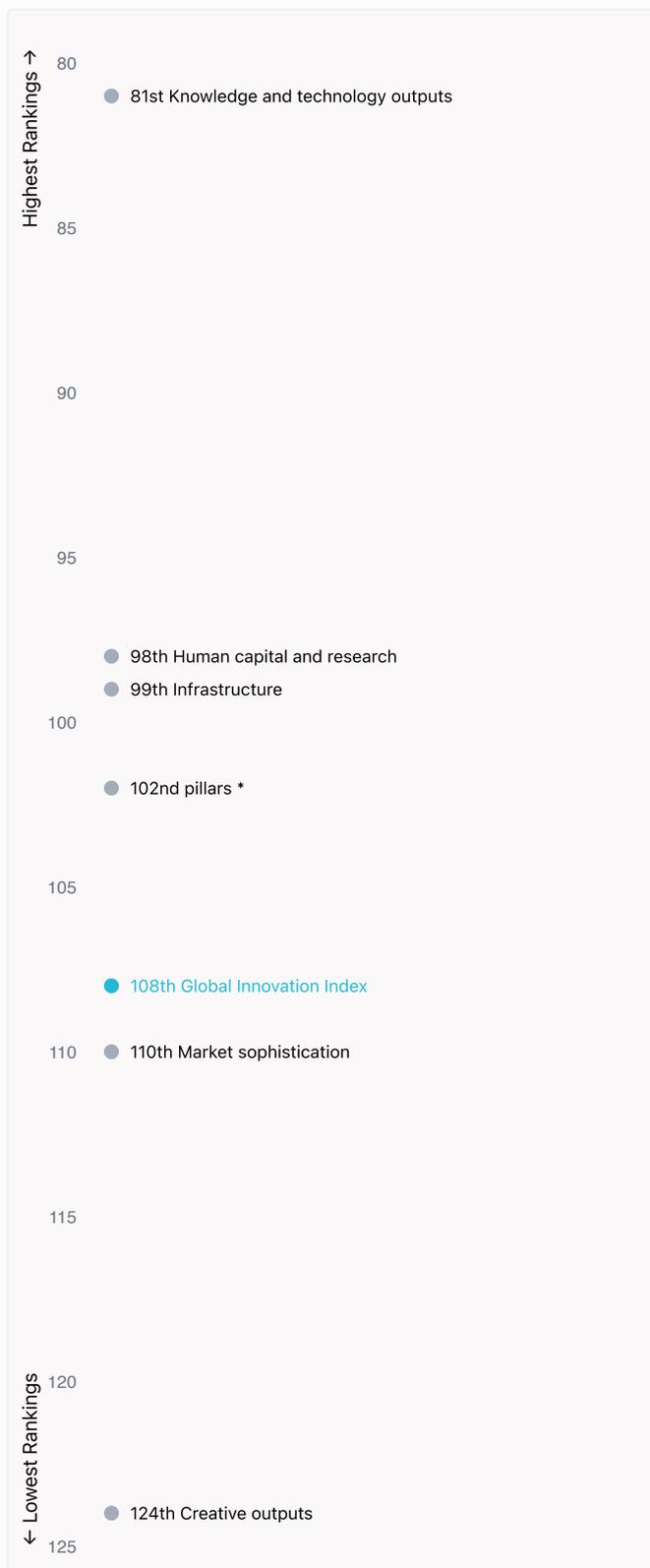


# Global Innovation Index 2025



## Overview of Tajikistan's rankings in the seven areas of the GII in 2025

The chart shows the ranking for each of the seven areas that the GII comprises. The strongest areas for Tajikistan are those that rank above the GII (shown in blue) and the weakest are those that rank below.



### Highest Rankings

Tajikistan ranks highest in Knowledge and technology outputs (81st), Human capital and research (98th) and Infrastructure (99th).



### Lowest Rankings

Tajikistan ranks lowest in Creative outputs (124th), Market sophistication (110th) and Institutions, Business sophistication (102nd).

\* Institutions, Business sophistication



The full WIPO Intellectual Property Statistics profile for Tajikistan can be found on <https://www.wipo.int/edocs/statistics-country-profile/en/tj.pdf>

# Global Innovation Index 2025



## Benchmark of Tajikistan against other economy groupings for each of the seven areas of the GII Index



### Lower middle-income economies

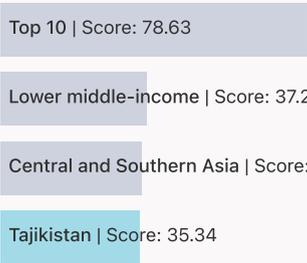
Tajikistan performs above the Lower middle-income group average in Human capital and research, Infrastructure, Knowledge and technology outputs.



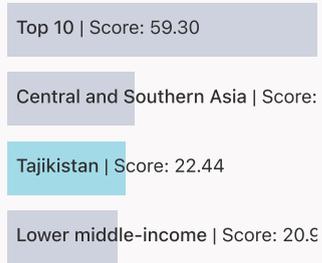
### Central and Southern Asia

Tajikistan performs below the regional average in all pillars.

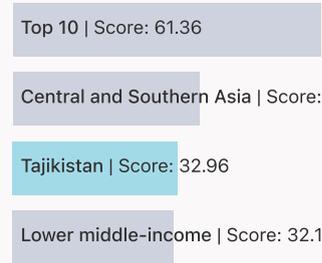
#### Institutions



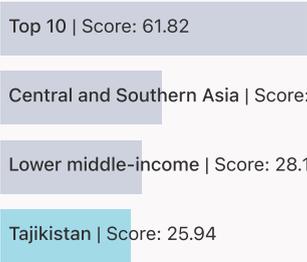
#### Human capital and research



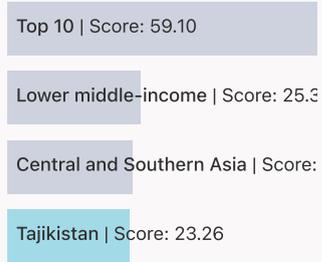
#### Infrastructure



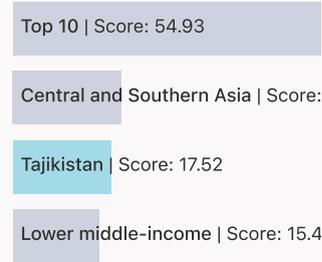
#### Market sophistication



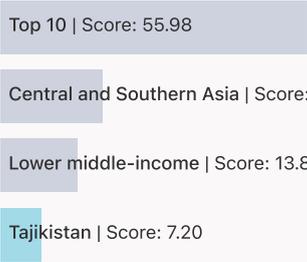
#### Business sophistication



#### Knowledge and technology outputs



#### Creative outputs



# Global Innovation Index 2025



## Innovation strengths and weaknesses in Tajikistan

The table below gives an overview of the indicator strengths and weaknesses of Tajikistan in the GII 2025.



Tajikistan's best-ranked innovation strengths are **Utility models by origin/bn PPP\$ GDP** (rank 1), **Labor productivity growth, %** (rank 3) and **Low-carbon energy use, %** (rank 5).

### Strengths

| Rank | Code  | Indicator name                              |
|------|-------|---|
| 1    | 6.1.3 | Utility models by origin/bn PPP\$ GDP       |
| 3    | 6.2.1 | Labor productivity growth, %                |
| 5    | 3.3.2 | Low-carbon energy use, %                    |
| 18   | 4.1.3 | Loans from microfinance institutions, % GDP |
| 25   | 2.1.1 | Expenditure on education, % GDP             |
| 29   | 5.1.3 | Youth demographic dividend, %               |
| 51   | 7.3.3 | Mobile app creation/bn PPP\$ GDP            |
| 57   | 1.3.1 | Policy stability for doing business†        |
| 72   | 4.3.1 | Applied tariff rate, weighted avg., %       |

### Weaknesses

| Rank | Code  | Indicator name                                |
|------|-------|---|
| 139  | 3.3.3 | ISO 14001 environment/bn PPP\$ GDP            |
| 139  | 6.3.5 | ISO 9001 quality/bn PPP\$ GDP                 |
| 136  | 1.2.2 | Rule of law*                                  |
| 135  | 5.2.1 | Public research–industry co-publications, %   |
| 100  | 5.2.5 | Patent families/bn PPP\$ GDP                  |
| 81   | 7.1.3 | Global brand value, top 5,000, % GDP          |
| 80   | 2.3.4 | QS university ranking, top 3*                 |
| 53   | 6.2.2 | Unicorn valuation, % GDP                      |
| 44   | 2.3.3 | Global corporate R&D investors, top 3, mn USD |

# Global Innovation Index 2025



## Tajikistan's innovation system

As far as practicable, the plots below present unscaled indicator data.

### > Innovation inputs in Tajikistan



#### 2.1.1 Expenditure on education

was equal to 5.44 % GDP in 2023, up by 0.04 percentage points from the year prior – and equivalent to an indicator rank of 25.



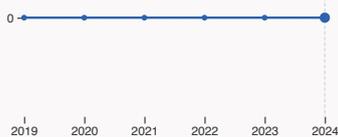
#### 2.2.2 Graduates in science and engineering

was equal to 22.04 % of total graduates in 2017, up by 0.59 percentage points from the year prior – and equivalent to an indicator rank of 69.



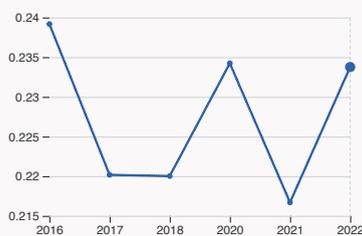
#### 2.3.2 Gross expenditure on R&D

was equal to 0.09 % GDP in 2020, down by 0.004 percentage points from the year prior – and equivalent to an indicator rank of 104.



#### 2.3.4 QS university ranking

The country does not have any universities in the QS world universities ranking in 2024.



#### 4.3.2 Domestic industry diversification

was equal to an index score of 0.234 in 2022, up by 7.87% from the year prior – and equivalent to an indicator rank of 84.



#### 5.1.1 Knowledge-intensive employment

was equal to 23.31 % of total workforce in 2016 – and equivalent to an indicator rank of 64.

# Global Innovation Index 2025



## > Innovation outputs in Tajikistan



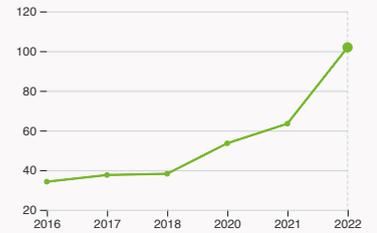
### 6.1.1 Patents by origin

was equal to 14 patents in 2019 – and equivalent to an indicator rank of 77.



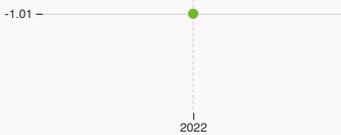
### 6.2.2 Unicorn valuation

The country does not have unicorns in 2025.



### 6.2.4 High-tech manufacturing

was equal to 101.88 high-tech manufacturing output in million USD in 2022, up by 60.62% from the year prior – and equivalent to an indicator rank of 103.



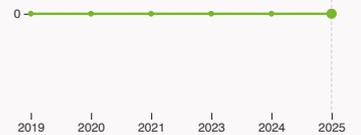
### 6.3.2 Production and export complexity

was equal to a score of -1.01 in 2022 – and equivalent to an indicator rank of 118.



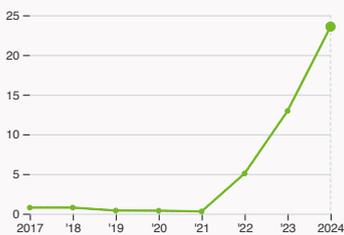
### 6.3.3 High-tech exports

was equal to 34.4 million USD in 2023, up by 1024.18% from the year prior – and equivalent to an indicator rank of 84.



### 7.1.3 Global brand value, top 5,000

The country does not have any brands that make the top 5,000 ranking in 2025.



### 7.3.3 Mobile app creation

was equal to 23.57 million global downloads of mobile apps in 2024, up by 82.008% from the year prior – and equivalent to an indicator rank of 51.

# Tajikistan

| Output rank  | Input rank | Income       | Region                    | Population (mn)    | GDP, PPP\$ (bn) | GDP per capita, PPP\$ |
|--|------------|--------------|---------------------------|--------------------|-----------------|-----------------------|
| 104  | 105        | Lower middle | Central and Southern Asia | 10.6               | 56.4            | 5,532.8               |
| Score / Value Rank   |            |              |                           | Score / Value Rank |                 |                       |
| <b>Institutions</b>  |            |              |                           | 35.3               | 102             |                       |
| <b>1.1 Institutional environment</b>                         |            |              |                           | 31.4               | 117             |                       |
| 1.1.1 Operational stability for businesses*                  |            |              |                           | 38.7               | 118             |                       |
| 1.1.2 Government effectiveness*                              |            |              |                           | 24.1               | 116             |                       |
| <b>1.2 Regulatory environment</b>                            |            |              |                           | 20.4               | 134             | ◇                     |
| 1.2.1 Regulatory quality*                                    |            |              |                           | 19.6               | 133             | ◇                     |
| 1.2.2 Rule of law*   |            |              |                           | 21.2               | 136             | ◇◇                    |
| <b>1.3 Business environment</b>                              |            |              |                           | 54.3               | [51]            |                       |
| 1.3.1 Policy stability for doing business†                   |            |              |                           | ● 54.3             | 57              | ●                     |
| 1.3.2 Entrepreneurship policies and culture†                 |            |              |                           | n/a                | n/a             |                       |
| <b>Human capital and research</b>                            |            |              |                           | 22.4               | 98              |                       |
| <b>2.1 Education</b>   |            |              |                           | 46.3               | [83]            |                       |
| 2.1.1 Expenditure on education, % GDP                        |            |              |                           | 5.4                | 25              | ●                     |
| 2.1.2 Government funding/pupil, secondary, % GDP/cap         |            |              |                           | n/a                | n/a             |                       |
| 2.1.3 School life expectancy, years                          |            |              |                           | 11.6               | 100             |                       |
| 2.1.4 PISA scales in reading, maths and science              |            |              |                           | n/a                | n/a             |                       |
| 2.1.5 Pupil-teacher ratio, secondary                         |            |              |                           | n/a                | n/a             |                       |
| <b>2.2 Tertiary education</b>                                |            |              |                           | 20.6               | 94              |                       |
| 2.2.1 Tertiary enrolment, % gross                            |            |              |                           | 35.6               | 87              |                       |
| 2.2.2 Graduates in science and engineering, %                |            |              |                           | ● 22               | 69              |                       |
| 2.2.3 Tertiary inbound mobility, %                           |            |              |                           | ● 0.8              | 92              |                       |
| <b>2.3 Research and development (R&amp;D)</b>                |            |              |                           | 0.4                | 112             |                       |
| 2.3.1 Researchers, FTE/mn pop.                               |            |              |                           | n/a                | n/a             |                       |
| 2.3.2 Gross expenditure on R&D, % GDP                        |            |              |                           | ● 0.09             | 104             |                       |
| 2.3.3 Global corporate R&D investors, top 3, mn USD          |            |              |                           | 0                  | 44              | ◇◇                    |
| 2.3.4 QS university ranking, top 3*                          |            |              |                           | 0                  | 80              | ◇◇                    |
| <b>Infrastructure</b>  |            |              |                           | 33                 | 99              |                       |
| <b>3.1 Information and communication technologies (ICTs)</b> |            |              |                           | 46.6               | 116             |                       |
| 3.1.1 ICT access*  |            |              |                           | 59.6               | 109             |                       |
| 3.1.2 ICT use*   |            |              |                           | n/a                | n/a             |                       |
| 3.1.3 Government's online service*                           |            |              |                           | 33.5               | 118             |                       |
| <b>3.2 General infrastructure</b>                            |            |              |                           | 17.9               | 118             |                       |
| 3.2.1 Electricity output, GWh/mn pop.                        |            |              |                           | ● 2,159.8          | 78              |                       |
| 3.2.2 Logistics performance*                                 |            |              |                           | 18.2               | 90              |                       |
| 3.2.3 Gross capital formation, % GDP                         |            |              |                           | 20.4               | 101             |                       |
| <b>3.3 Ecological sustainability</b>                         |            |              |                           | 34.4               | 32              | ◆                     |
| 3.3.1 GDP/unit of energy use                                 |            |              |                           | 10.8               | 69              |                       |
| 3.3.2 Low-carbon energy use, %                               |            |              |                           | 67.1               | 5               | ●◆                    |
| 3.3.3 ISO 14001 environment/bn PPP\$ GDP                     |            |              |                           | 0.04               | 139             | ◇◇                    |
| <b>Market sophistication</b>                                 |            |              |                           | 25.9               | 110             |                       |
| <b>4.1 Credit</b>  |            |              |                           | 14.6               | 104             |                       |
| 4.1.1 Finance for startups and scaleups†                     |            |              |                           | n/a                | n/a             |                       |
| 4.1.2 Domestic credit to private sector, % GDP               |            |              |                           | 12.4               | 128             |                       |
| 4.1.3 Loans from microfinance institutions, % GDP            |            |              |                           | ● 2.6              | 18              | ●                     |
| <b>4.2 Investment</b>  |            |              |                           | 1.8                | [102]           |                       |
| 4.2.1 Market capitalization, % GDP                           |            |              |                           | n/a                | n/a             |                       |
| 4.2.2 Venture capital (VC) received, deal count/bn PPP\$ GDP |            |              |                           | 0.05               | 81              |                       |
| 4.2.3 Late-stage VC deal count, % global VC                  |            |              |                           | 0.002              | 98              |                       |
| 4.2.4 VC investors, deal count/bn PPP\$ GDP                  |            |              |                           | n/a                | n/a             |                       |
| 4.2.5 VC investor co-participation/bn PPP\$ GDP              |            |              |                           | n/a                | n/a             |                       |
| <b>4.3 Trade, diversification and market scale</b>           |            |              |                           | 61.5               | 89              |                       |
| 4.3.1 Applied tariff rate, weighted avg., %                  |            |              |                           | ● 2.4              | 72              | ●◆                    |
| 4.3.2 Domestic industry diversification                      |            |              |                           | 65.5               | 84              |                       |
| 4.3.3 Domestic market scale, bn PPP\$                        |            |              |                           | 56.4               | 115             |                       |
| <b>Business sophistication</b>                               |            |              |                           | 23.3               | 102             |                       |
| <b>5.1 Knowledge workers</b>                                 |            |              |                           | 42.3               | [48]            |                       |
| 5.1.1 Knowledge-intensive employment, %                      |            |              |                           | ● 23.3             | 64              |                       |
| 5.1.2 Females employed w/advanced degrees, %                 |            |              |                           | ● 7.3              | 88              |                       |
| 5.1.3 Youth demographic dividend, %                          |            |              |                           | 52.9               | 29              | ●                     |
| 5.1.4 GERD performed by business, % GDP                      |            |              |                           | n/a                | n/a             |                       |
| 5.1.5 GERD financed by business, %                           |            |              |                           | n/a                | n/a             |                       |
| <b>5.2 Innovation linkages</b>                               |            |              |                           | 11.1               | 127             |                       |
| 5.2.1 Public research-industry co-publications, %            |            |              |                           | 0.3                | 135             | ◇◇                    |
| 5.2.2 University-industry R&D collaboration†                 |            |              |                           | ● 22.5             | 106             |                       |
| 5.2.3 University industry & international engagement, top 5* |            |              |                           | n/a                | n/a             |                       |
| 5.2.4 State of cluster development†                          |            |              |                           | ● 21.2             | 124             |                       |
| 5.2.5 Patent families/bn PPP\$ GDP                           |            |              |                           | 0                  | 100             | ◇◇                    |
| <b>5.3 Knowledge absorption</b>                              |            |              |                           | 16.4               | 129             |                       |
| 5.3.1 Intellectual property payments, % total trade          |            |              |                           | 0.003              | 129             | ◇                     |
| 5.3.2 High-tech imports, % total trade                       |            |              |                           | 7.2                | 86              |                       |
| 5.3.3 ICT services imports, % total trade                    |            |              |                           | 0.3                | 128             |                       |
| 5.3.4 FDI net inflows, % GDP                                 |            |              |                           | 1.2                | 105             |                       |
| 5.3.5 Research talent, % in businesses                       |            |              |                           | n/a                | n/a             |                       |
| <b>Knowledge and technology outputs</b>                      |            |              |                           | 17.5               | 81              |                       |
| <b>6.1 Knowledge creation</b>                                |            |              |                           | 23.1               | 45              | ◆                     |
| 6.1.1 Patents by origin/bn PPP\$ GDP                         |            |              |                           | ● 0.4              | 77              |                       |
| 6.1.2 PCT patents by inventor origin/bn PPP\$ GDP            |            |              |                           | 0.02               | 86              |                       |
| 6.1.3 Utility models by origin/bn PPP\$ GDP                  |            |              |                           | ● 3.4              | 1               | ●◆                    |
| 6.1.4 Scientific and technical articles/bn PPP\$ GDP         |            |              |                           | 2.8                | 123             |                       |
| 6.1.5 Citable documents H-index                              |            |              |                           | 1.3                | 133             |                       |
| <b>6.2 Knowledge impact</b>                                  |            |              |                           | 23.5               | 75              |                       |
| 6.2.1 Labor productivity growth, %                           |            |              |                           | 4.7                | 3               | ●◆                    |
| 6.2.2 Unicorn valuation, % GDP                               |            |              |                           | 0                  | 53              | ◇◇                    |
| 6.2.3 Software spending, % GDP                               |            |              |                           | 0.05               | 108             |                       |
| 6.2.4 High-tech manufacturing, %                             |            |              |                           | 4.3                | 103             | ◇                     |
| <b>6.3 Knowledge diffusion</b>                               |            |              |                           | 6                  | 128             |                       |
| 6.3.1 Intellectual property receipts, % total trade          |            |              |                           | 0.000008           | 125             |                       |
| 6.3.2 Production and export complexity                       |            |              |                           | 26.1               | 118             |                       |
| 6.3.3 High-tech exports, % total trade                       |            |              |                           | 0.9                | 84              |                       |
| 6.3.4 ICT services exports, % total trade                    |            |              |                           | 0.2                | 129             |                       |
| 6.3.5 ISO 9001 quality/bn PPP\$ GDP                          |            |              |                           | 0.04               | 139             | ◇◇                    |
| <b>Creative outputs</b>                                      |            |              |                           | 7.2                | 124             |                       |
| <b>7.1 Intangible assets</b>                                 |            |              |                           | 2.2                | 132             | ◇                     |
| 7.1.1 Intangible asset intensity, top 15, %                  |            |              |                           | n/a                | n/a             |                       |
| 7.1.2 Trademarks by origin/bn PPP\$ GDP                      |            |              |                           | ● 13.6             | 106             |                       |
| 7.1.3 Global brand value, top 5,000, % GDP                   |            |              |                           | 0                  | 81              | ◇◇                    |
| 7.1.4 Industrial designs by origin/bn PPP\$ GDP              |            |              |                           | ● 0                | 130             |                       |
| <b>7.2 Creative goods and services</b>                       |            |              |                           | 0.9                | [126]           |                       |
| 7.2.1 Cultural and creative services exports, % total trade  |            |              |                           | 0.05               | 104             |                       |
| 7.2.2 National feature films/mn pop. 15-69                   |            |              |                           | n/a                | n/a             |                       |
| 7.2.3 Entertainment and media market/th pop. 15-69           |            |              |                           | n/a                | n/a             |                       |
| 7.2.4 Creative goods exports, % total trade                  |            |              |                           | 0.07               | 104             |                       |
| <b>7.3 Online creativity</b>                                 |            |              |                           | 23.4               | 82              |                       |
| 7.3.1 Top-level domains (TLDs)/th pop. 15-69                 |            |              |                           | 0.3                | 119             |                       |
| 7.3.2 GitHub commits/mn pop. 15-69                           |            |              |                           | 0.7                | 122             |                       |
| 7.3.3 Mobile app creation/bn PPP\$ GDP                       |            |              |                           | 69.1               | 51              | ●                     |

NOTES: ● indicates a strength ○ a weakness ◆ an income group strength ◇ an income group weakness \* an index † a survey question ● that the economy's data is outdated. Square brackets [ ] indicate the data minimum coverage (DMC) requirements were not met at the sub-pillar or pillar level, n/a represents missing values, a dash - indicates an indicator which is not relevant to this economy and thus not considered for DMC thresholds.

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## Data Availability

The following tables list indicators that are either missing or outdated for Tajikistan.



Tajikistan has missing data for seventeen indicators and outdated data for fifteen indicators.

## Missing data for Tajikistan

| Code  | Indicator name   | Economy year | Model year* | Source   |
|-------|--|--------------|-------------|--|
| 1.3.2 | Entrepreneurship policies and culture <sup>†</sup>     | n/a          | 2024        | Global Entrepreneurship Monitor  |
| 2.1.2 | Government funding/pupil, secondary, % GDP/cap         | n/a          | 2021        | UNESCO Institute for Statistics  |
| 2.1.4 | PISA scales in reading, maths and science              | n/a          | 2022        | OECD, PISA   |
| 2.1.5 | Pupil–teacher ratio, secondary                         | n/a          | 2023        | UNESCO Institute for Statistics  |
| 2.3.1 | Researchers, FTE/mn pop.                               | n/a          | 2023        | UNESCO Institute for Statistics; Eurostat; OECD; RICYT   |
| 3.1.2 | ICT use*   | n/a          | 2023        | World Intellectual Property Organization; based on International Telecommunication Union (ITU) |
| 4.1.1 | Finance for startups and scaleups <sup>†</sup>         | n/a          | 2024        | Global Entrepreneurship Monitor  |
| 4.2.1 | Market capitalization, % GDP                           | n/a          | 2022        | World Federation of Exchanges; World Bank  |
| 4.2.4 | VC investors, deal count/bn PPP\$ GDP                  | n/a          | 2024        | PitchBook Data, Inc.; International Monetary Fund  |
| 4.2.5 | VC investor co-participation/bn PPP\$ GDP              | n/a          | 2024        | PitchBook Data, Inc.; International Monetary Fund  |
| 5.1.4 | GERD performed by business, % GDP                      | n/a          | 2023        | UNESCO Institute for Statistics; Eurostat; OECD; RICYT   |
| 5.1.5 | GERD financed by business, %                           | n/a          | 2022        | UNESCO Institute for Statistics; Eurostat; OECD; RICYT   |
| 5.2.3 | University industry & international engagement, top 5* | n/a          | 2025        | Times Higher Education, World University Rankings 2025   |
| 5.3.5 | Research talent, % in businesses                       | n/a          | 2023        | UNESCO Institute for Statistics; Eurostat; OECD; RICYT   |
| 7.1.1 | Intangible asset intensity, top 15, %                  | n/a          | 2024        | Brand Finance  |
| 7.2.2 | National feature films/mn pop. 15–69                   | n/a          | 2023        | OMDIA; United Nations, World Population Prospects  |
| 7.2.3 | Entertainment and media market/th pop. 15–69           | n/a          | 2024        | PwC, GEMO; United Nations, World Population Prospects; International Monetary Fund             |

\*Model year corresponds to the most frequent data year (the year that appears most often across all economies in the GII).

# Global Innovation Index 2025



## Outdated data for Tajikistan

| Code  | Indicator name                                     | Economy year | Model year* | Source  |
|-------|--|--------------|-------------|---|
| 1.3.1 | Policy stability for doing business <sup>†</sup>   | 2021         | 2024        | World Economic Forum, Executive Opinion Survey (EOS)                  |
| 2.2.2 | Graduates in science and engineering, %            | 2017         | 2022        | UNESCO Institute for Statistics; Eurostat; OECD                       |
| 2.2.3 | Tertiary inbound mobility, %                       | 2017         | 2023        | UNESCO Institute for Statistics                                       |
| 2.3.2 | Gross expenditure on R&D, % GDP                    | 2020         | 2023        | UNESCO Institute for Statistics; Eurostat; OECD; RICYT                |
| 3.2.1 | Electricity output, GWh/mn pop.                    | 2022         | 2023        | International Energy Agency   |
| 4.1.3 | Loans from microfinance institutions, % GDP        | 2022         | 2023        | International Monetary Fund, Financial Access Survey (FAS)            |
| 4.3.1 | Applied tariff rate, weighted avg., %              | 2022         | 2023        | World Trade Organization  |
| 5.1.1 | Knowledge-intensive employment, %                  | 2016         | 2024        | International Labour Organization                                     |
| 5.1.2 | Females employed w/advanced degrees, %             | 2016         | 2024        | International Labour Organization                                     |
| 5.2.2 | University-industry R&D collaboration <sup>†</sup> | 2021         | 2024        | World Economic Forum, Executive Opinion Survey (EOS)                  |
| 5.2.4 | State of cluster development <sup>†</sup>          | 2021         | 2024        | World Economic Forum, Executive Opinion Survey (EOS)                  |
| 6.1.1 | Patents by origin/bn PPP\$ GDP                     | 2019         | 2023        | World Intellectual Property Organization; International Monetary Fund |
| 6.1.3 | Utility models by origin/bn PPP\$ GDP              | 2022         | 2023        | World Intellectual Property Organization; International Monetary Fund |
| 7.1.2 | Trademarks by origin/bn PPP\$ GDP                  | 2020         | 2023        | World Intellectual Property Organization; International Monetary Fund |
| 7.1.4 | Industrial designs by origin/bn PPP\$ GDP          | 2015         | 2023        | World Intellectual Property Organization; International Monetary Fund |

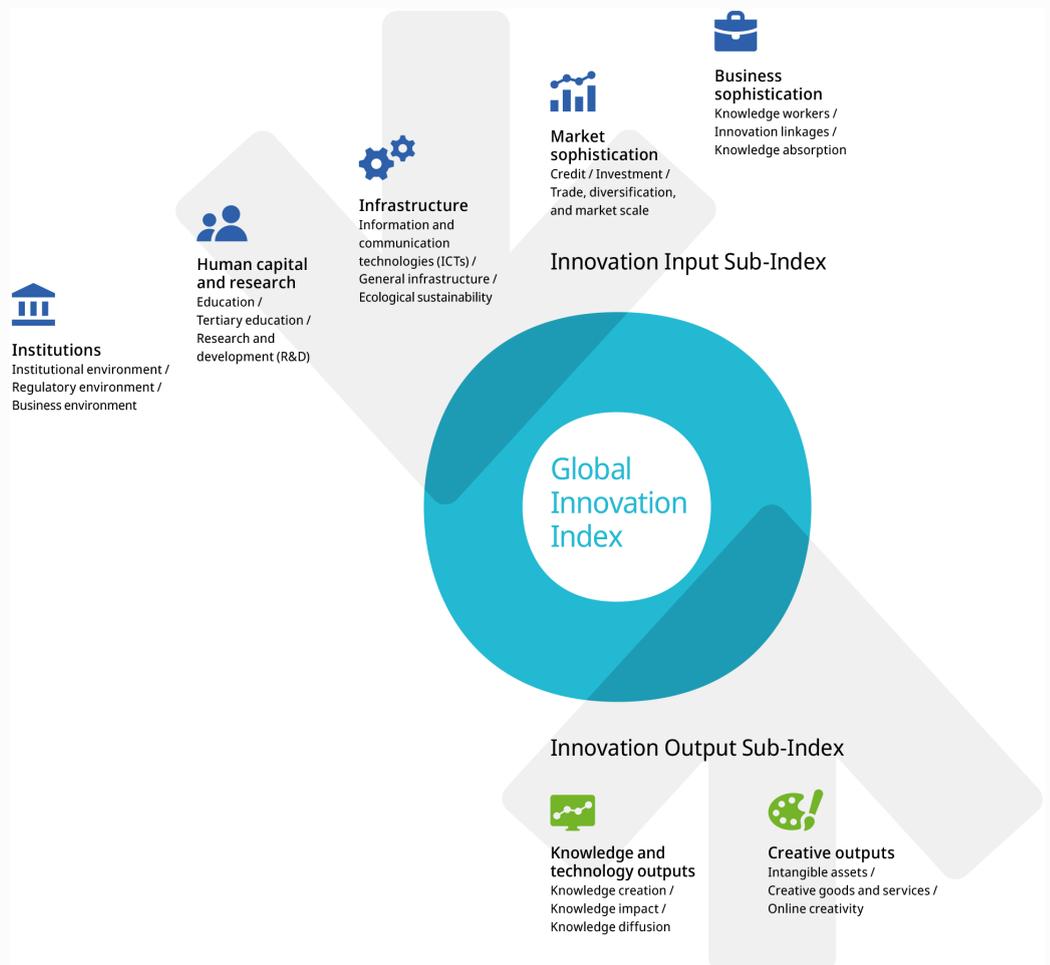
\*Model year corresponds to the most frequent data year (the year that appears most often across all economies in the GII).

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## About the Global Innovation Index

- The Global Innovation Index (GII) is published by the World Intellectual Property Organization (WIPO), a specialized agency of the United Nations.
- Recognizing that innovation is a key driver of economic development, the GII aims to provide an innovation ranking and rich analysis referencing around 140 economies. Over the last decade, the GII has established itself as both a leading reference on innovation and a “tool for action” for economies that incorporate the GII into their innovation agendas.



The Index is a ranking of the innovation capabilities and results of world economies. It measures innovation based on criteria that include institutions, human capital and research infrastructure, credit, investment, linkages, the creation, absorption and diffusion of knowledge and creative outputs.

The GII has two sub-indices: the Innovation Input Sub-Index and the Innovation Output Sub-Index, and seven pillars, each consisting of three sub-pillars.