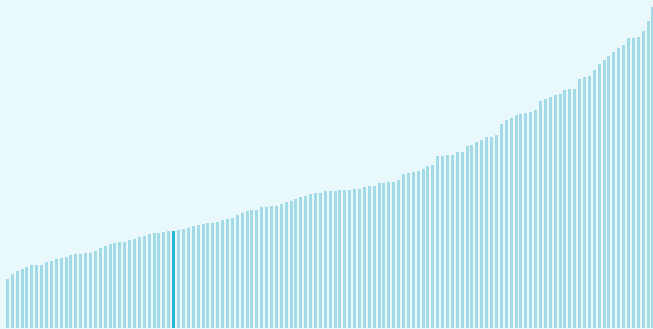




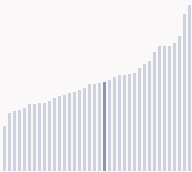
Kyrgyzstan ranking in the Global Innovation Index 2024

Kyrgyzstan ranks **99th** among the 133 economies featured in the GII 2024.

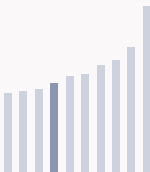
The Global Innovation Index (GII) ranks world economies according to their innovation capabilities. Consisting of roughly 80 indicators, grouped into innovation inputs and outputs, the GII aims to capture the multi-dimensional facets of innovation.



Kyrgyzstan ranks **18th** among the 38 lower-middle-income group economies.



Kyrgyzstan ranks **7th** among the 10 economies in Central and Southern Asia.



> Kyrgyzstan GII Ranking (2020-2024)

The table shows the rankings of Kyrgyzstan over the past four 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 Kyrgyzstan in the GII 2024 is between ranks 94 and 104.

Year	GII Position	Innovation Inputs	Innovation Outputs
2020	94th	88th	107th
2021	98th	81st	119th
2022	94th	85th	108th
2023	106th	94th	112nd
2024	99th	86th	105th

Kyrgyzstan performs worse in innovation outputs than innovation inputs in 2024.

This year Kyrgyzstan ranks 86th in innovation inputs. This position is higher than last year.

Kyrgyzstan ranks 105th in innovation outputs. This position is higher than last year.

Kyrgyzstan has no clusters in the top 100 S&T clusters of the Global Innovation Index.

Global Innovation Index 2024



> Global Innovation Tracker

The Global Innovation Tracker 2024 shows what is the current state of innovation in Kyrgyzstan, how rapidly is technology being embraced and what are the resulting societal impacts.



For Kyrgyzstan, 5 indicators have improved in the short-term and 2 indicators have worsened.

Science and innovation investment

Scientific publications	R&D investments	Venture capital		International patent filings
		Deal numbers	Deal values	
▼ -23.8% 2022 - 2023	▲ 8.7% 2021 - 2022	n/a	n/a	n/a
▲ 9.7% 2013 - 2023	▼ -3.7% 2012 - 2022	n/a	n/a	n/a

Technology adoption

Safe sanitation	Connectivity		Robots	Electric vehicles
	Fixed broadband	5G		
▲ 0.1% 2021 - 2022	▲ 27% 2021 - 2022	n/a	n/a	n/a
▲ 0.3% 2012 - 2022	▲ 19.7% 2012 - 2022		n/a	n/a
92.6 per 100 inhabitants in 2022	5.9 per 100 inhabitants in 2022	n/a		n/a

Socioeconomic impact

Labor productivity	Life expectancy	Temperature change
▲ 1.6% 2022 - 2023	▲ 0.2% 2021 - 2022	▲ 2°C 2023
▲ 0.7% 2013 - 2023	▲ 0.3% 2012 - 2022	n/a
16,756 USD in 2023	72 years in 2022	

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 country from 1951–1980. Figures are rounded.



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, Kyrgyzstan's performance is at expectations for its level of development.

> Innovation overperformers relative to their economic development





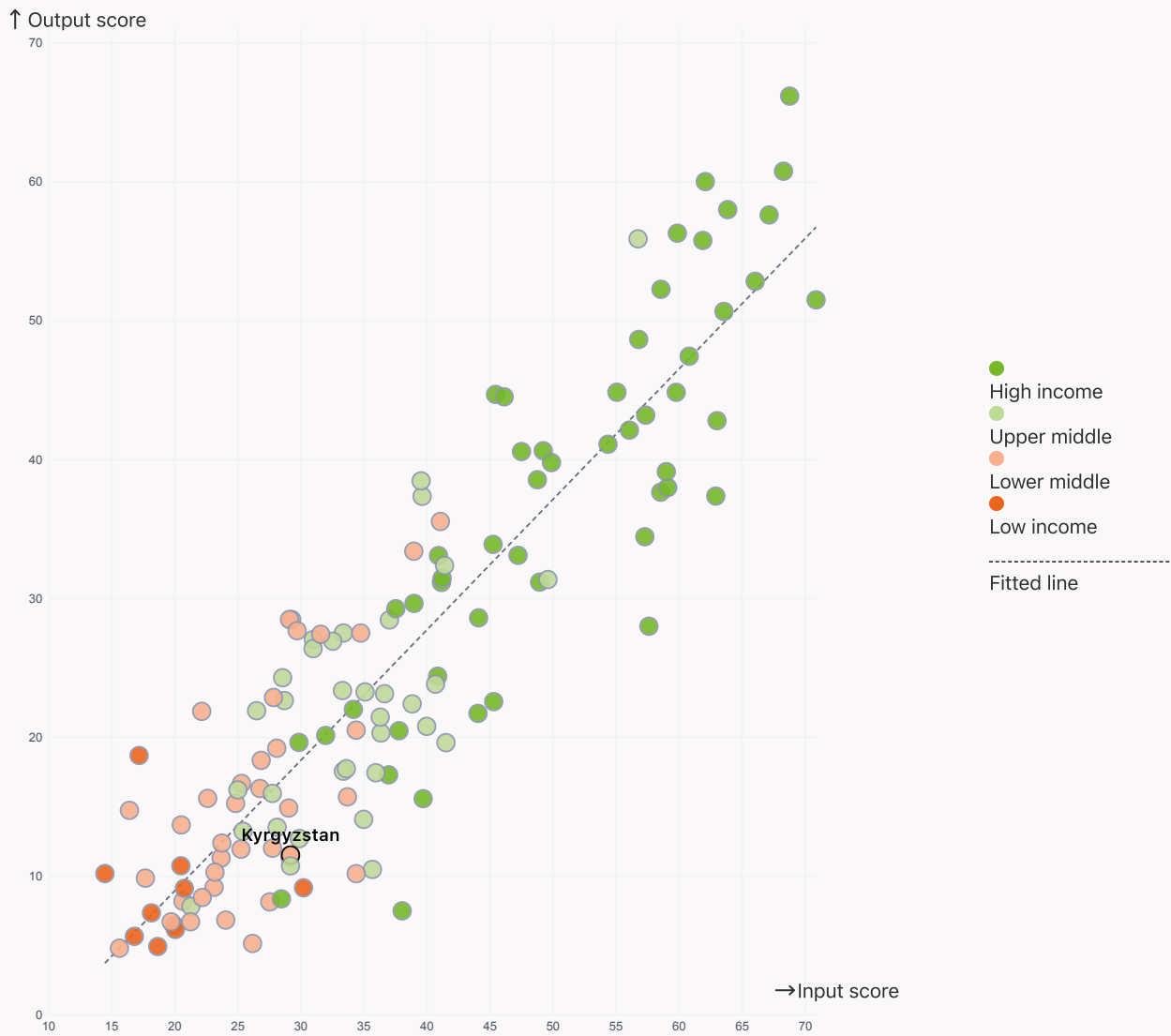
Effectively translating innovation investments into innovation outputs

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.



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

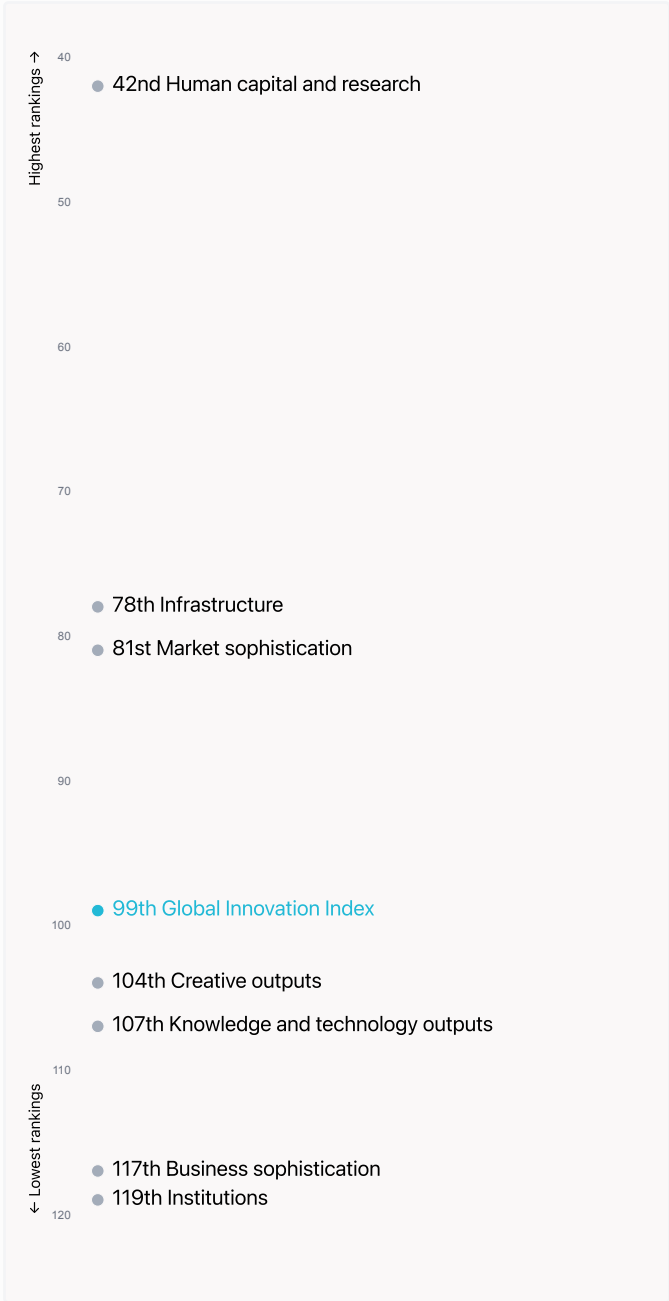
> Relationship between innovation inputs and outputs





Overview of Kyrgyzstan's rankings in the seven areas of the GII in 2024

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



Highest rankings

Kyrgyzstan ranks highest in Human capital and research (42nd), Infrastructure (78th) and Market sophistication (81st).

Lowest rankings

Kyrgyzstan ranks lowest in Institutions (119th), Business sophistication (117th) and Knowledge and technology outputs (107th).

The full WIPO Intellectual Property Statistics profile for Kyrgyzstan can be found on [this link](#).



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

The charts shows the relative position of Kyrgyzstan (blue bar) against other economy groupings (grey bars), for each of the seven areas of the GII Index.



Lower-Middle-Income economies

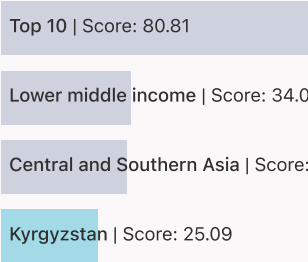
Kyrgyzstan performs above the lower-middle-income group average in Human capital and research, Infrastructure, Market sophistication.



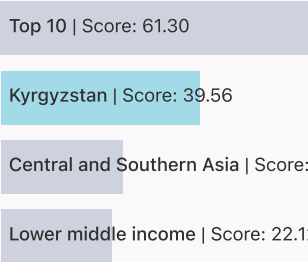
Central And Southern Asia

Kyrgyzstan performs above the regional average in Human capital and research, Infrastructure.

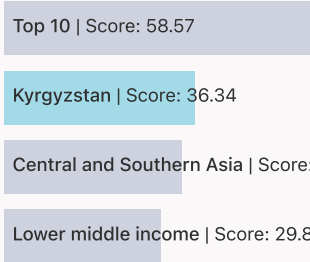
Institutions



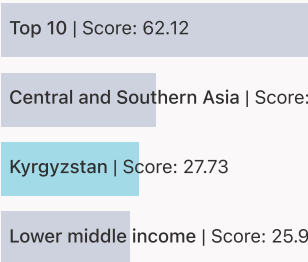
Human capital and research



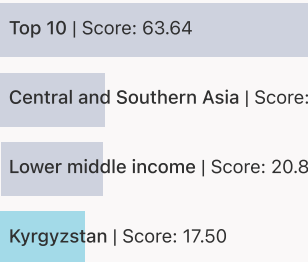
Infrastructure



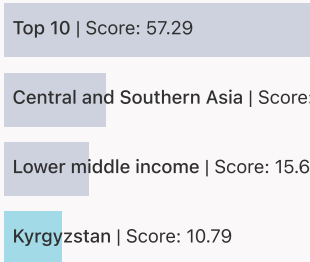
Market sophistication



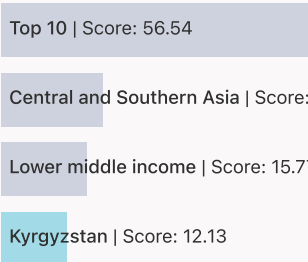
Business sophistication



Knowledge and technology outputs



Creative outputs





Innovation strengths and weaknesses in Kyrgyzstan

The table below gives an overview of the indicator strengths and weaknesses of Kyrgyzstan in the GII 2024.

Kyrgyzstan’s main innovation strengths are **Expenditure on education, % GDP (rank 3)**, **Tertiary inbound mobility, % (rank 4)** and **Loans from microfinance institutions, % GDP (rank 10)**.

Strengths

Rank	Code	Indicator name
3	2.1.1	Expenditure on education, % GDP
4	2.2.3	Tertiary inbound mobility, %
10	4.1.3	Loans from microfinance institutions, % GDP
13	3.3.2	Low-carbon energy use, %
29	5.3.2	High-tech imports, % total trade
32	6.1.1	Patents by origin/bn PPP\$ GDP
41	7.2.4	Creative goods exports, % total trade
46	3.1.1	ICT access*
54	5.2.5	Patent families/bn PPP\$ GDP
61	7.3.2	GitHub commits/mn pop. 15–69

Weaknesses

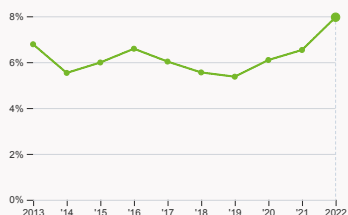
Rank	Code	Indicator name
130	3.3.3	ISO 14001 environment/bn PPP\$ GDP
130	6.3.5	ISO 9001 quality/bn PPP\$ GDP
107	6.2.4	High-tech manufacturing, %
106	4.3.2	Domestic industry diversification
105	3.2.2	Logistics performance*
99	6.1.2	PCT patents by origin/bn PPP\$ GDP
75	7.1.3	Global brand value, top 5,000, % GDP
75	2.3.4	QS university ranking, top 3*
49	6.2.2	Unicorn valuation, % GDP
41	2.3.3	Global corporate R&D investors, top 3, mn USD



Kyrgyzstan's innovation system

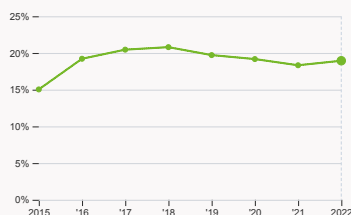
As far as practicable, the plots below present unscaled indicator data.

> Innovation inputs in Kyrgyzstan



2.1.1 Expenditure on education

was equal to 7.96 % GDP in 2022, up by 1.43 percentage points from the year prior – and equivalent to an indicator rank of 3.



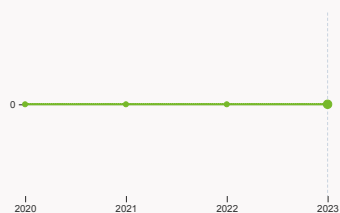
2.2.2 Graduates in science and engineering

was equal to 18.94 % of total graduates in 2022, up by 0.62 percentage points from the year prior – and equivalent to an indicator rank of 85.



2.3.2 Gross expenditure on R&D

was equal to 0.08 % GDP in 2022, up by 0.002 percentage points from the year prior – and equivalent to an indicator rank of 106.



2.3.4 QS university ranking

was equal to an average score of 0 for the top three universities in 2023 with no change from the year prior – and equivalent to an indicator rank of 75.



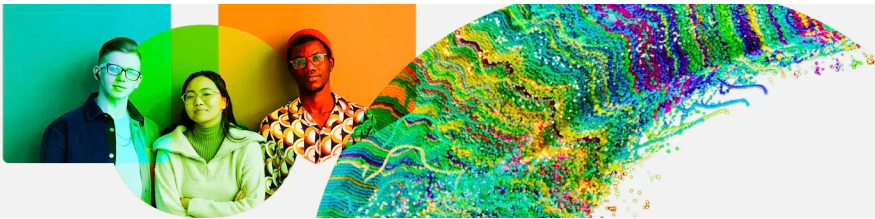
4.3.2 Domestic industry diversification

was equal to an index score of 0.42 in 2021, down by 19.97% from the year prior – and equivalent to an indicator rank of 106.



5.1.1 Knowledge-intensive employment

was equal to 18.06 % in 2021, up by 0.21 percentage points from the year prior – and equivalent to an indicator rank of 85.

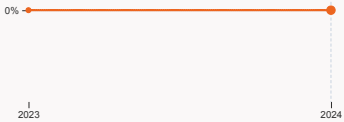


> Innovation outputs in Kyrgyzstan



6.1.1 Patents by origin

was equal to 75 patents in 2022, down by 12.79% from the year prior – and equivalent to an indicator rank of 32.



6.2.2 Unicorn valuation

was equal to 0 % GDP in 2024 with no change from the year prior – and equivalent to an indicator rank of 49.



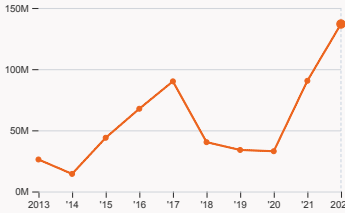
6.2.4 High-tech manufacturing

was equal to 2.05 % of total manufacturing output in 2021, up by 0.28 percentage points from the year prior – and equivalent to an indicator rank of 107.



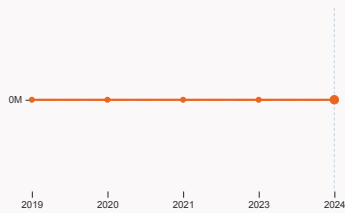
6.3.2 Production and export complexity

was equal to a score of -0.11 in 2021, down by 375% from the year prior – and equivalent to an indicator rank of 64.



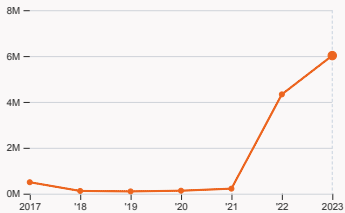
6.3.3 High-tech exports

was equal to 136.9 million USD in 2022, up by 51.32% from the year prior – and equivalent to an indicator rank of 64.



7.1.3 Global brand value

was equal to 0 million USD for the brands in the top 5,000 in 2024 with no change from the year prior – and equivalent to an indicator rank of 75.



7.3.3 Mobile app creation

was equal to 6.02 million global downloads of mobile apps in 2023, up by 39.03% from the year prior – and equivalent to an indicator rank of 72.

Kyrgyzstan



99

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.



Data availability

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



Kyrgyzstan has missing data for fourteen indicators and outdated data for six indicators.

Missing data for Kyrgyzstan

Code	Indicator name	Economy Year	Model Year	Source
1.3.2	Entrepreneurship policies and culture [†]	n/a	2023	Global Entrepreneurship Monitor
2.1.2	Government funding/pupil, secondary, % GDP/cap	n/a	2020	UNESCO Institute for Statistics
2.1.4	PISA scales in reading, maths and science	n/a	2022	OECD, PISA
2.3.1	Researchers, FTE/mn pop.	n/a	2022	UNESCO Institute for Statistics; Eurostat; OECD; RICYT
4.1.1	Finance for startups and scaleups [†]	n/a	2023	Global Entrepreneurship Monitor
4.2.1	Market capitalization, % GDP	n/a	2022	World Federation of Exchanges; World Bank
4.2.2	Venture capital (VC) investors, deals/bn PPP\$ GDP	n/a	2023	LSEG Data & Analytics; International Monetary Fund
4.2.3	VC recipients, deals/bn PPP\$ GDP	n/a	2023	LSEG Data & Analytics; International Monetary Fund
4.2.4	VC received, value, % GDP	n/a	2023	LSEG Data & Analytics; International Monetary Fund
5.3.5	Research talent, % in businesses	n/a	2022	UNESCO Institute for Statistics; Eurostat; OECD; RICYT
7.1.1	Intangible asset intensity, top 15, %	n/a	2023	Brand Finance
7.2.1	Cultural and creative services exports, % total trade	n/a	2022	World Trade Organization Global Services Trade Data Hub
7.2.2	National feature films/mn pop. 15–69	n/a	2022	OMDIA; United Nations, World Population Prospects
7.2.3	Entertainment and media market/th pop. 15–69	n/a	2023	PwC, GEMO; United Nations, World Population Prospects; International Monetary Fund



Outdated data for Kyrgyzstan

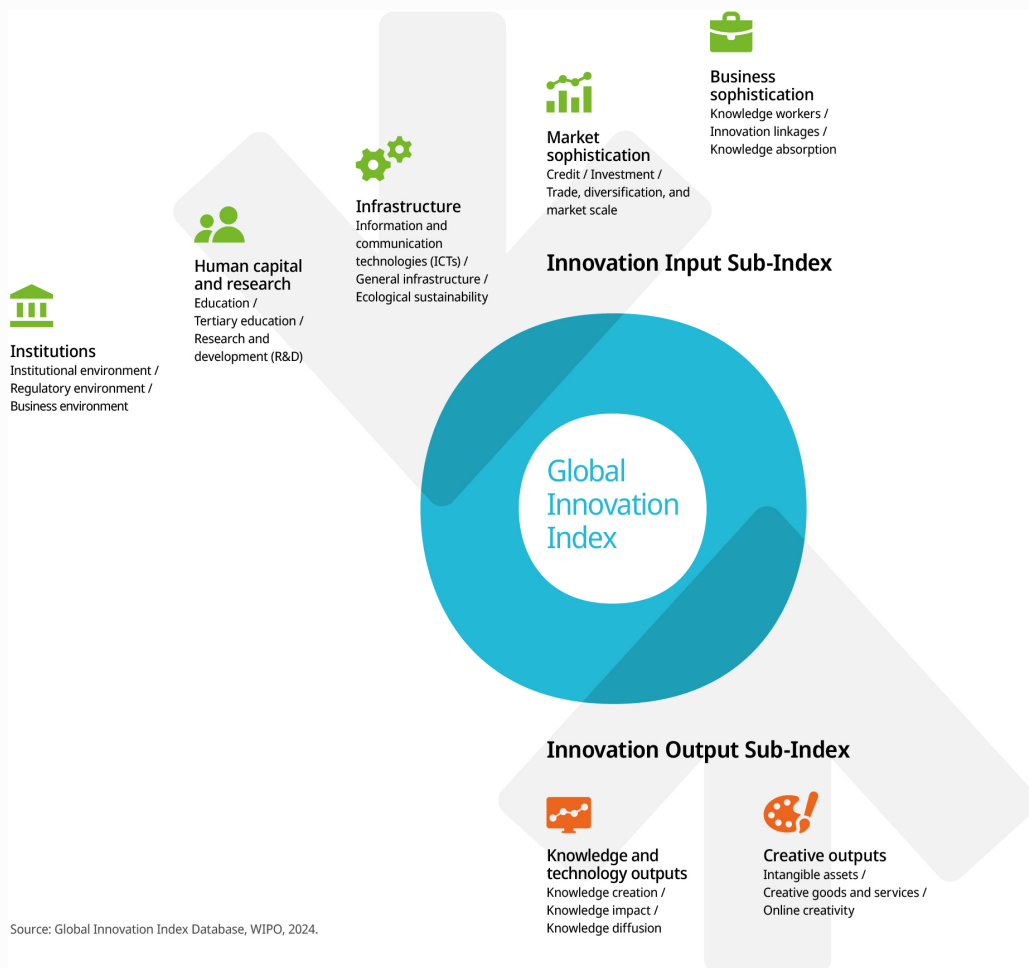
Code	Indicator name	Economy Year	Model Year	Source
2.1.3	School life expectancy, years	2021	2022	UNESCO Institute for Statistics
5.1.1	Knowledge-intensive employment, %	2021	2022	International Labour Organization
5.1.3	GERD performed by business, % GDP	2018	2022	UNESCO Institute for Statistics; Eurostat; OECD; RICYT
5.1.4	GERD financed by business, %	2018	2021	UNESCO Institute for Statistics; Eurostat; OECD; RICYT
5.1.5	Females employed w/advanced degrees, %	2018	2023	International Labour Organization
5.2.4	Joint venture/strategic alliance deals/bn PPP\$ GDP	2022	2023	LSEG Data & Analytics; International Monetary Fund

Global Innovation Index 2024



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 130 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.