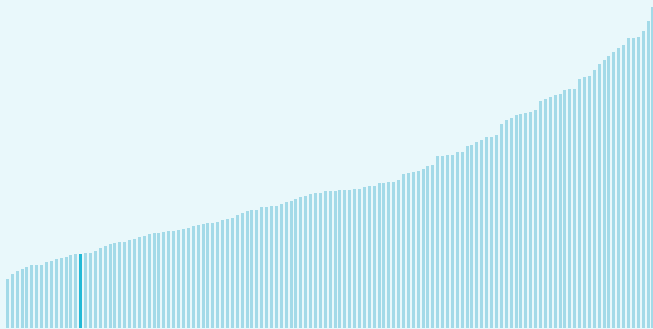




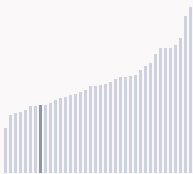
Zimbabwe ranking in the Global Innovation Index 2024

Zimbabwe ranks **118th** among the 133 economies featured in the GII 2024.

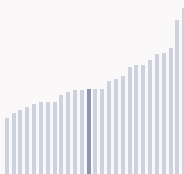
The Global Innovation Index (GII) ranks world economies according to their innovation capabilities. Consisting of roughly 80 indicators, grouped into innovation inputs and outputs, the GII aims to capture the multi-dimensional facets of innovation.



Zimbabwe ranks **31st** among the 38 lower-middle-income group economies.



Zimbabwe ranks **15th** among the 27 economies in Sub-Saharan Africa.



> Zimbabwe GII Ranking (2020-2024)

The table shows the rankings of Zimbabwe 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 Zimbabwe in the GII 2024 is between ranks 109 and 123.

Year	GII Position	Innovation Inputs	Innovation Outputs
2020	120th	123rd	108th
2021	113rd	116th	105th
2022	107th	120th	93rd
2023	117th	127th	97th
2024	118th	131st	96th

Zimbabwe performs better in innovation outputs than innovation inputs in 2024.

This year Zimbabwe ranks 131st in innovation inputs. This position is lower than last year.

Zimbabwe ranks 96th in innovation outputs. This position is higher than last year.

Zimbabwe 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 Zimbabwe, how rapidly is technology being embraced and what are the resulting societal impacts.



For Zimbabwe, 3 indicators have improved in the short-term and 5 indicators have worsened.

Science and innovation investment

Scientific publications	R&D investments	Venture capital		International patent filings
		Deal numbers	Deal values	
▼ -16.6% 2022 - 2023	n/a	▼ -50% 2022 - 2023	▼ -99% 2022 - 2023	▲ 100% 2022 - 2023
▲ 7.7% 2013 - 2023	n/a	▼ -6.7% 2013 - 2023	▼ -47.1% 2013 - 2023	▲ 2.9% 2013 - 2023

Technology adoption

Safe sanitation	Connectivity		Robots	Electric vehicles
	Fixed broadband	5G		
0% 2021 - 2022	▼ -1.4% 2021 - 2022	n/a	n/a	n/a
▲ 1% 2012 - 2022	▲ 8.9% 2012 - 2022		n/a	n/a
31.8 per 100 inhabitants in 2022	1.3 per 100 inhabitants in 2022	2.6 per 100 inhabitants in 2022		n/a

Socioeconomic impact

Labor productivity	Life expectancy	Temperature change
▲ 1.1% 2022 - 2023	▲ 0.2% 2021 - 2022	▲ 0.6°C 2023
▼ -1.1% 2013 - 2023	▲ 0.7% 2012 - 2022	n/a
9,332 USD in 2023	59.4 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.



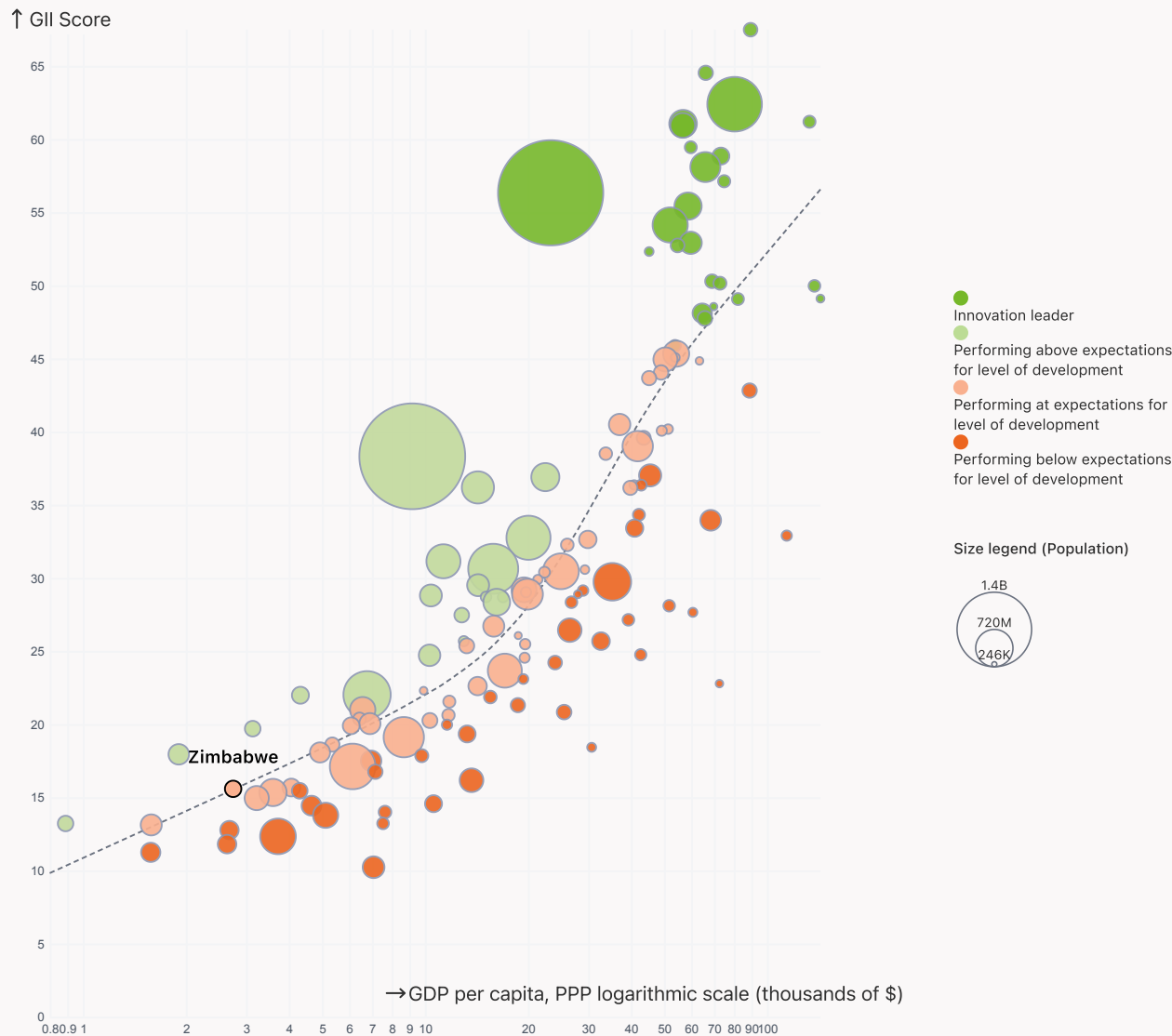
Expected vs. observed innovation performance

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, Zimbabwe'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.



Zimbabwe produces more innovation outputs relative to its level of innovation investments.

> Relationship between innovation inputs and outputs





Overview of Zimbabwe'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 Zimbabwe are those that rank above the GII (shown in blue) and the weakest are those that rank below.



Highest rankings



Zimbabwe ranks highest in Creative outputs (90th), Business sophistication (91st) and Knowledge and technology outputs (97th).

Lowest rankings



Zimbabwe ranks lowest in Institutions (130th), Infrastructure (128th) and Human capital and research (127th).

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



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

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



Lower-Middle-Income economies

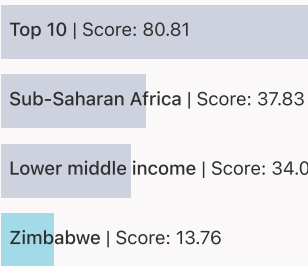
Zimbabwe performs above the lower-middle-income group average in Business sophistication, Creative outputs.



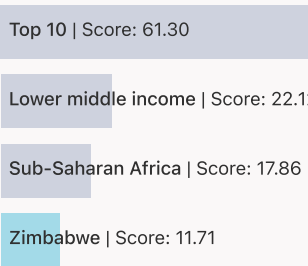
Sub-Saharan Africa

Zimbabwe performs above the regional average in Business sophistication, Knowledge and technology outputs, Creative outputs.

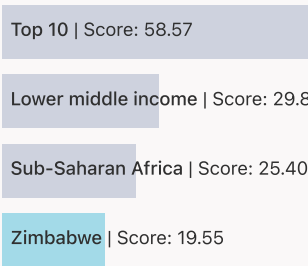
Institutions



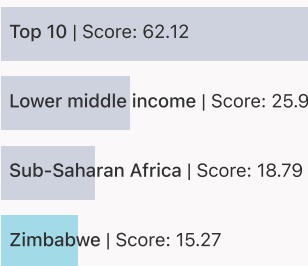
Human capital and research



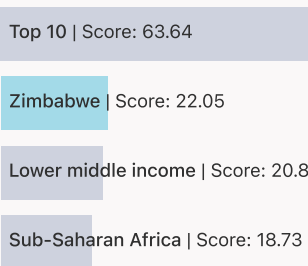
Infrastructure



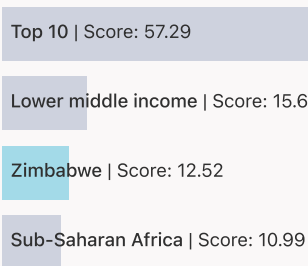
Market sophistication



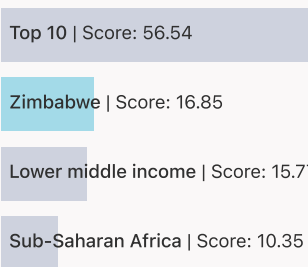
Business sophistication



Knowledge and technology outputs



Creative outputs





Innovation strengths and weaknesses in Zimbabwe

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

Zimbabwe’s main innovation strengths are **Low-carbon energy use, %** (rank 31), **Utility models by origin/bn PPP\$ GDP** (rank 38) and **Joint venture/strategic alliance deals/bn PPP\$ GDP** (rank 42).

Strengths

Rank	Code	Indicator name
31	3.3.2	Low-carbon energy use, %
38	6.1.3	Utility models by origin/bn PPP\$ GDP
42	5.2.4	Joint venture/strategic alliance deals/bn PPP\$ GDP
54	3.3.3	ISO 14001 environment/bn PPP\$ GDP
54	6.1.4	Scientific and technical articles/bn PPP\$ GDP
55	5.2.1	Public Research-Industry co-publications, %
62	6.1.1	Patents by origin/bn PPP\$ GDP
64	6.3.5	ISO 9001 quality/bn PPP\$ GDP
66	5.3.3	ICT services imports, % total trade

Weaknesses

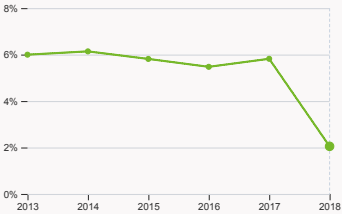
Rank	Code	Indicator name
132	1.1.1	Operational stability for businesses*
132	1.2.1	Regulatory quality*
130	1.1.2	Government effectiveness*
129	4.1.2	Domestic credit to private sector, % GDP
125	3.3.1	GDP/unit of energy use
102	5.2.5	Patent families/bn PPP\$ GDP
75	7.1.3	Global brand value, top 5,000, % 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



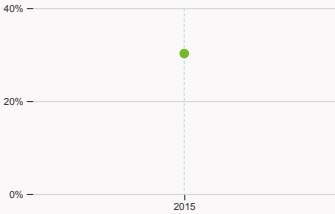
Zimbabwe's innovation system

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

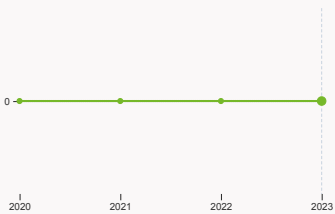
> Innovation inputs in Zimbabwe



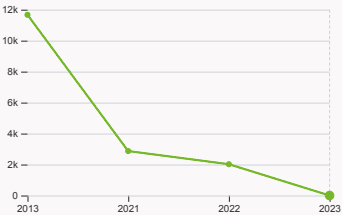
2.1.1 Expenditure on education
was equal to 2.05 % GDP in 2018, down by 3.77 percentage points from the year prior – and equivalent to an indicator rank of 121.



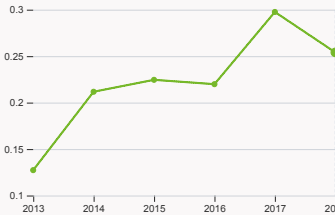
2.2.2 Graduates in science and engineering
was equal to 30.22 % of total graduates in 2015 – and equivalent to an indicator rank of 19.



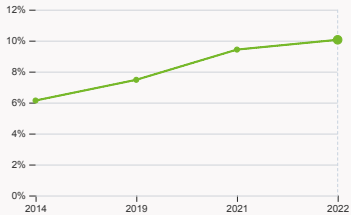
2.3.4 QS university ranking
was equal to an average score of 0 for the top three universities in 2023 with no change from the year prior – and equivalent to an indicator rank of 75.



4.2.4 VC received, value
was equal to 0 USD in 2023, down by 100% from the year prior – and equivalent to an indicator rank of 90.

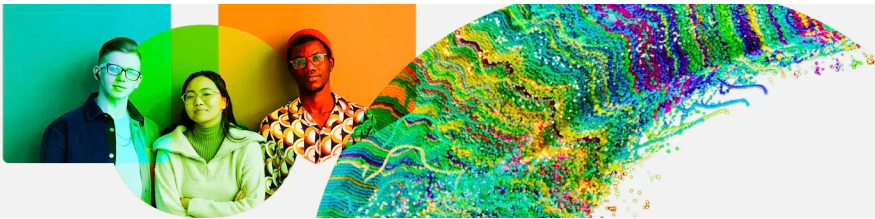


4.3.2 Domestic industry diversification
was equal to an index score of 0.25 in 2018, down by 14.62% from the year prior – and equivalent to an indicator rank of 98.

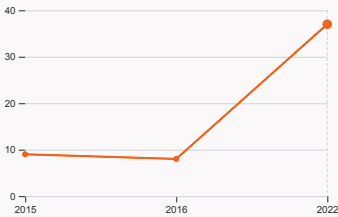


5.1.1 Knowledge-intensive employment
was equal to 10.05 % in 2022, up by 0.63 percentage points from the year prior – and equivalent to an indicator rank of 110.

Global Innovation Index 2024

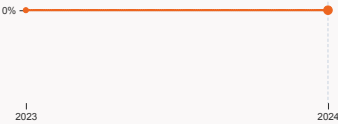


> Innovation outputs in Zimbabwe



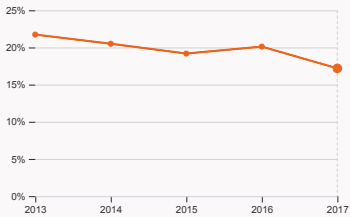
6.1.1 Patents by origin

was equal to 37 patents in 2022, up by 362.5% from the year prior – and equivalent to an indicator rank of 62.



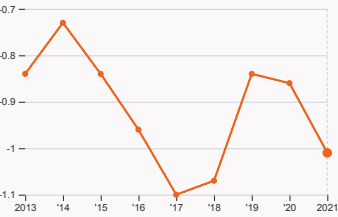
6.2.2 Unicorn valuation

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



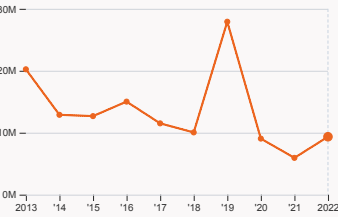
6.2.4 High-tech manufacturing

was equal to 17.19 % of total manufacturing output in 2017, down by 2.92 percentage points from the year prior – and equivalent to an indicator rank of 68.



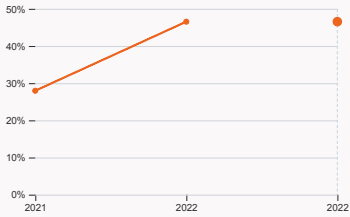
6.3.2 Production and export complexity

was equal to a score of -1.01 in 2021, down by 17.44% from the year prior – and equivalent to an indicator rank of 109.



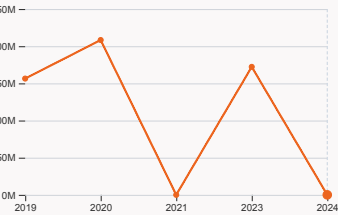
6.3.3 High-tech exports

was equal to 9.35 million USD in 2022, up by 57.41% from the year prior – and equivalent to an indicator rank of 121.



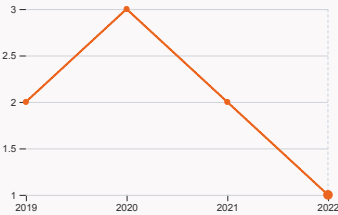
7.1.1 Intangible asset intensity

was equal to 46.54 % for the top 15 companies in 2022 with no change from the year prior – and equivalent to an indicator rank of 53.



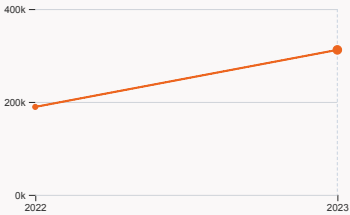
7.1.3 Global brand value

was equal to 0 million USD for the brands in the top 5,000 in 2024, down by 100% from the year prior – and equivalent to an indicator rank of 75.



7.2.2 National feature films

was equal to 1 film in 2022, down by 50% from the year prior – and equivalent to an indicator rank of 83.



7.3.3 Mobile app creation

was equal to 312.03 thousand global downloads of mobile apps in 2023, up by 64.85% from the year prior – and equivalent to an indicator rank of 106.

Zimbabwe

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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 Zimbabwe.



Zimbabwe has missing data for sixteen indicators and outdated data for nine indicators.

Missing data for Zimbabwe

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
2.1.3	School life expectancy, years	n/a	2022	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	2022	UNESCO Institute for Statistics
2.3.1	Researchers, FTE/mn pop.	n/a	2022	UNESCO Institute for Statistics; Eurostat; OECD; RICYT
2.3.2	Gross expenditure on R&D, % GDP	n/a	2022	UNESCO Institute for Statistics; Eurostat; OECD; RICYT
3.2.3	Gross capital formation, % GDP	n/a	2023	International Monetary Fund
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
5.1.3	GERD performed by business, % GDP	n/a	2022	UNESCO Institute for Statistics; Eurostat; OECD; RICYT
5.1.4	GERD financed by business, %	n/a	2021	UNESCO Institute for Statistics; Eurostat; OECD; RICYT
5.3.5	Research talent, % in businesses	n/a	2022	UNESCO Institute for Statistics; Eurostat; OECD; RICYT
7.2.1	Cultural and creative services exports, % total trade	n/a	2022	World Trade Organization Global Services Trade Data Hub
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 Zimbabwe

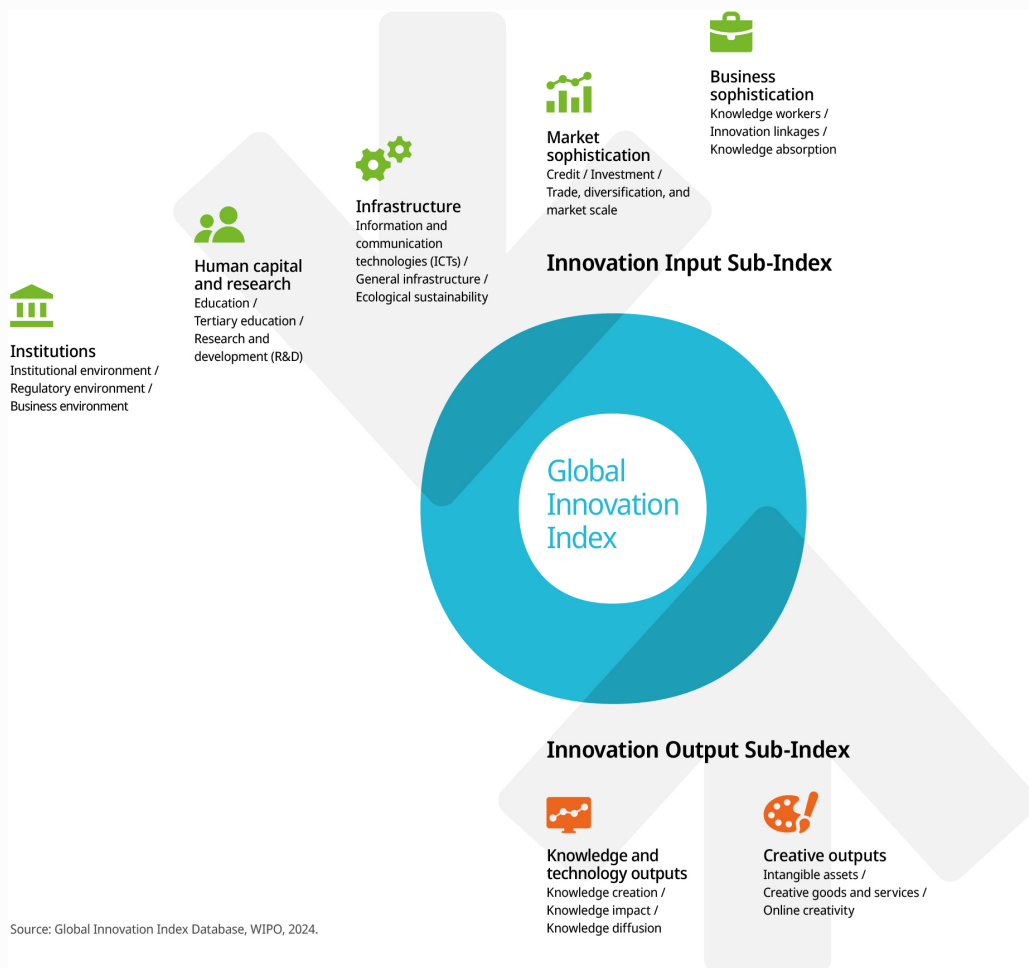
Code	Indicator name	Economy Year	Model Year	Source
2.1.1	Expenditure on education, % GDP	2018	2022	UNESCO Institute for Statistics
2.2.1	Tertiary enrolment, % gross	2020	2022	UNESCO Institute for Statistics
2.2.2	Graduates in science and engineering, %	2015	2021	UNESCO Institute for Statistics; Eurostat; OECD
2.2.3	Tertiary inbound mobility, %	2015	2022	UNESCO Institute for Statistics
4.3.2	Domestic industry diversification	2018	2021	United Nations Industrial Development Organization (UNIDO), Industrial Statistics Database (INDSTAT) Rev.3 and 4
5.1.2	Firms offering formal training, %	2016	2023	World Bank Enterprise Surveys
5.1.5	Females employed w/advanced degrees, %	2022	2023	International Labour Organization
6.2.4	High-tech manufacturing, %	2017	2021	United Nations Industrial Development Organization
7.1.1	Intangible asset intensity, top 15, %	2022	2023	Brand Finance

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.