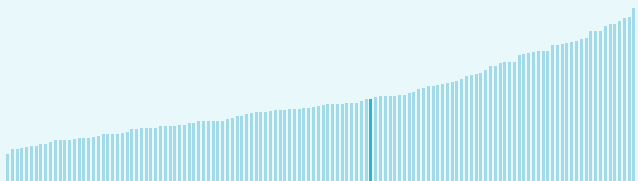


Global Innovation Index 2023

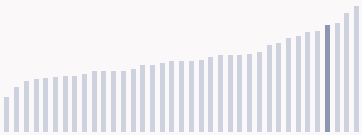
The Global Innovation Index (GII) **ranks world economies according to their innovation capabilities**. Consisting of **roughly 80 indicators**, grouped into innovation inputs and outputs, the GII **aims to capture the multi-dimensional facets of innovation**.

Philippines ranking in the Global Innovation Index 2023

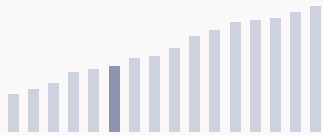
> Philippines ranks **56th** among the 132 economies featured in the GII 2023.



> Philippines ranks **4th** among the 37 lower-middle-income group economies.



> Philippines ranks **11th** among the 16 economies in South East Asia, East Asia, and Oceania.



> **Philippines GII Ranking (2020-2023)**

The table shows the rankings of Philippines 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 Philippines in the GII 2023 is between ranks 51 and 59.

	GII Position	Innovation Inputs	Innovation Outputs
2020	50th	70th	41st
2021	51st	72nd	40th
2022	59th	76th	51st
2023	56th	69th	52nd

Philippines performs better in innovation outputs than innovation inputs in 2023.

This year Philippines ranks 69th in innovation inputs. This position is higher than last year.

Philippines ranks 52nd in innovation outputs. This position is lower than last year.

Global Innovation Index 2023

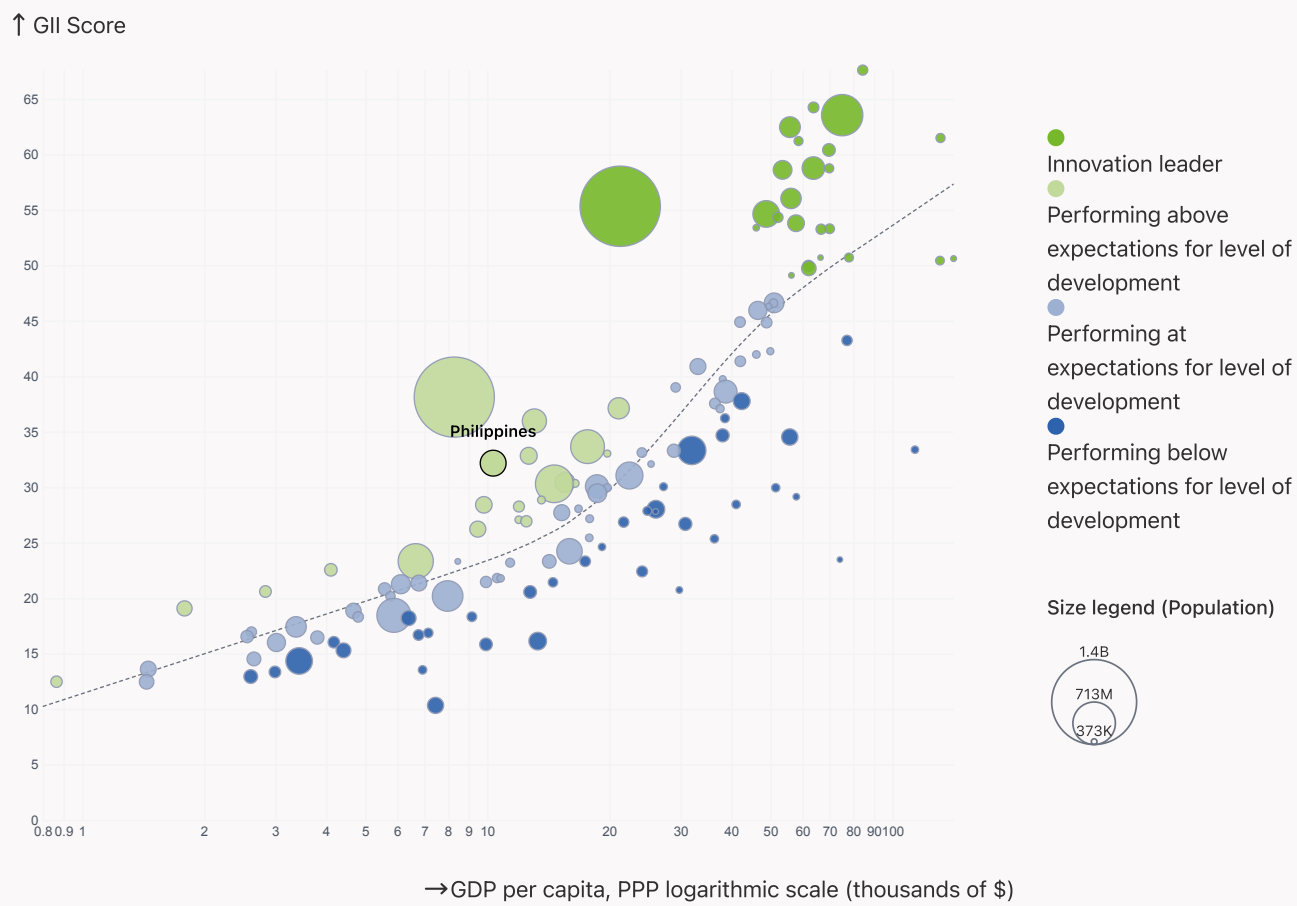
→ Expected vs. observed innovation performance

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, Philippines is performing above expectations for its level of development.

> Innovation overperformers relative to their economic development



Global Innovation Index 2023

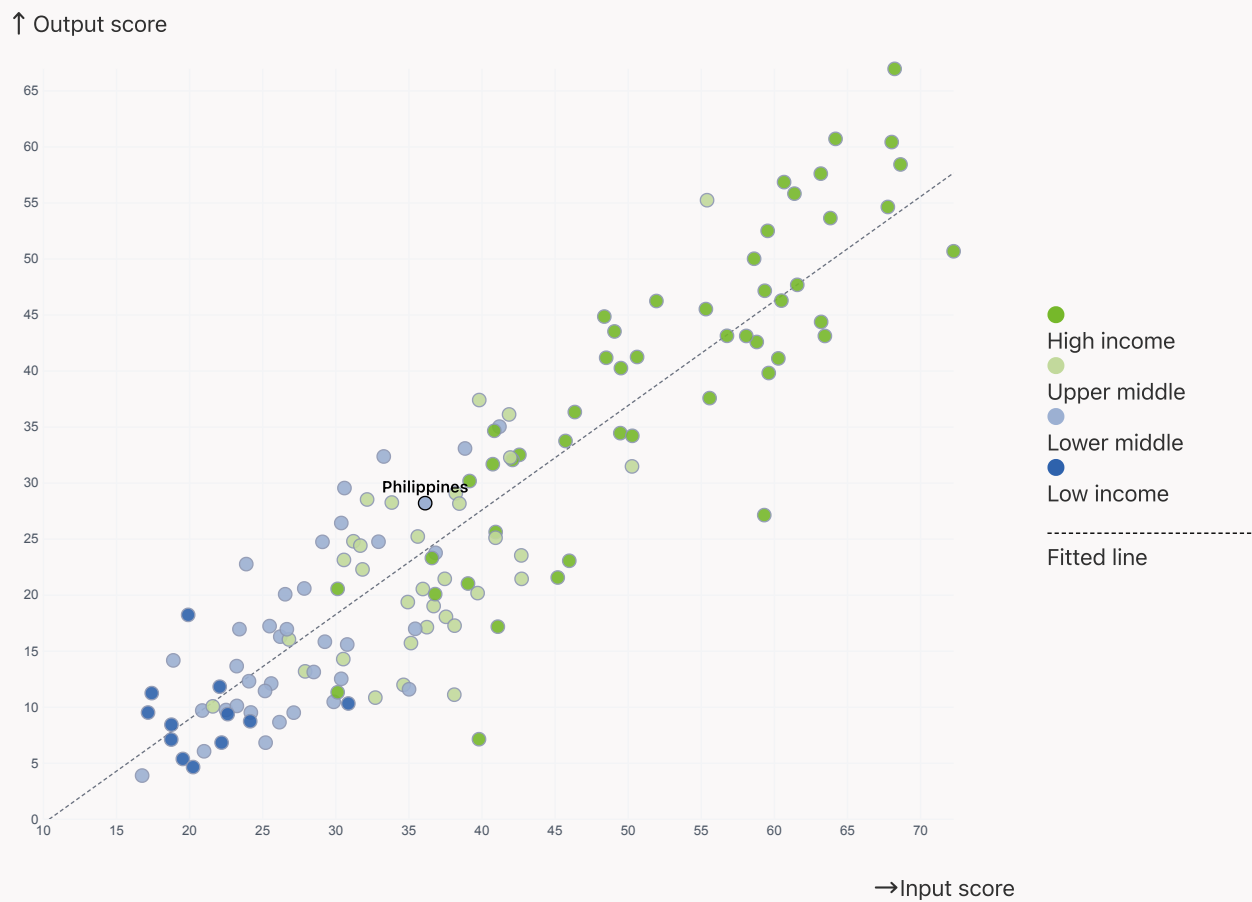
→ Effectively translating innovation investments into innovation outputs

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.



> Philippines produces more innovation outputs relative to its level of innovation investments.

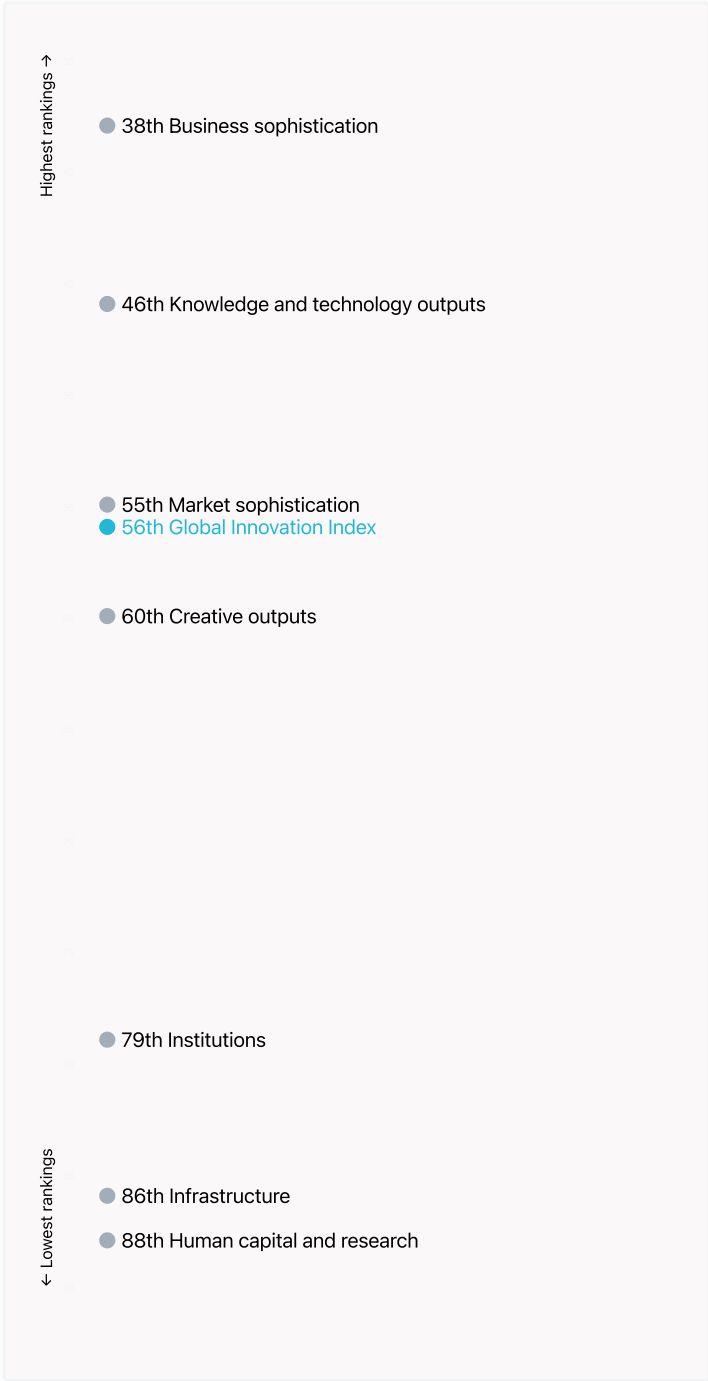
> Relationship between innovation inputs and outputs



Global Innovation Index 2023

→ Overview of Philippines’s rankings in the seven areas of the GII in 2023

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



> Highest rankings



Philippines ranks highest in Business sophistication (38th), Knowledge and technology outputs (46th) and Market sophistication (55th).

> Lowest rankings



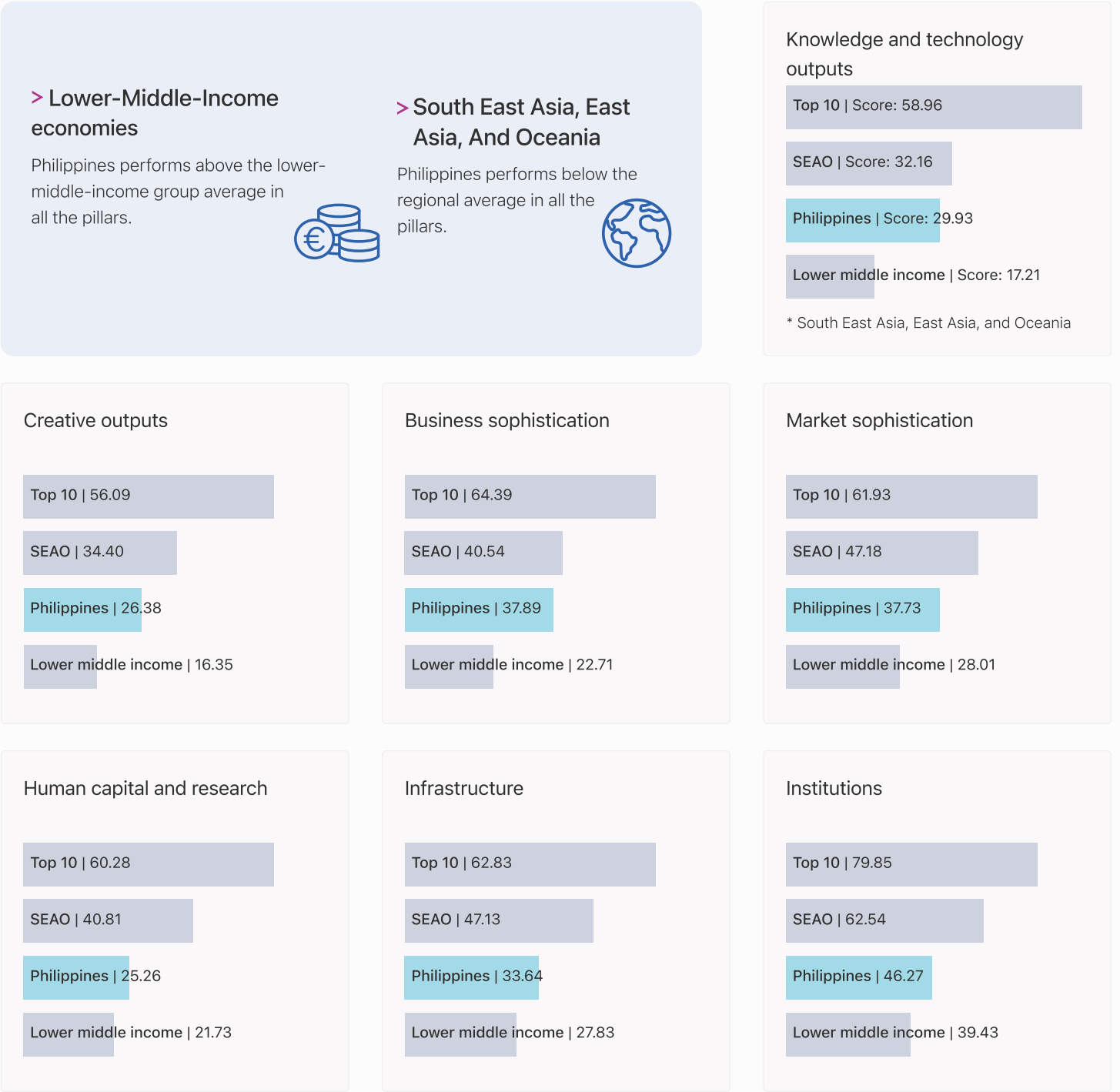
Philippines ranks lowest in Human capital and research (88th), Infrastructure (86th) and Institutions (79th).

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

Global Innovation Index 2023

➔ Benchmark of Philippines against other country groupings for each of the seven areas of the GII Index

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



Global Innovation Index 2023

→ Innovation strengths and weaknesses in Philippines

The table below gives an overview of the indicator strengths and weaknesses of Philippines in the GII 2023.



> Philippines’s main innovation strengths are **High-tech imports, % total trade** (rank 1), **High-tech exports, % total trade** (rank 2) and **Firms offering formal training, %** (rank 8).

Strengths

Weaknesses

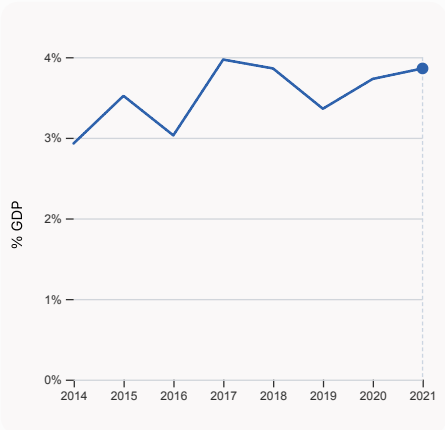
Rank	Code	Indicator name	Rank	Code	Indicator name
1	5.3.2	High-tech imports, % total trade	124	6.1.4	Scientific and technical articles/bn PPP\$ GDP
2	6.3.3	High-tech exports, % total trade	116	3.3.2	Environmental performance
8	5.1.2	Firms offering formal training, %	114	1.2.3	Cost of redundancy dismissal
9	6.1.3	Utility models by origin/bn PPP\$ GDP	109	2.1.5	Pupil-teacher ratio, secondary
10	7.2.4	Creative goods exports, % total trade	106	1.2.2	Rule of law
18	6.3.4	ICT services exports, % total trade	89	5.2.3	GERD financed by abroad, % GDP
26	3.3.1	GDP/unit of energy use	84	2.3.1	Researchers, FTE/mn pop.
26	6.2.4	High-tech manufacturing, %	78	2.1.4	PISA scales in reading, maths and science
29	4.3.3	Domestic market scale, bn PPP\$	53	4.1.3	Loans from microfinance institutions, % GDP
			40	2.3.3	Global corporate R&D investors, top 3, mn US\$

Global Innovation Index 2023

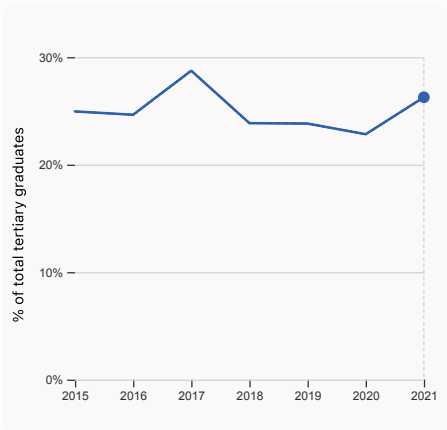
→ Philippines's innovation system

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

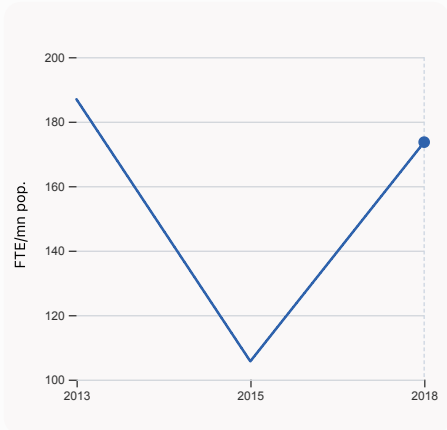
> Innovation inputs in Philippines



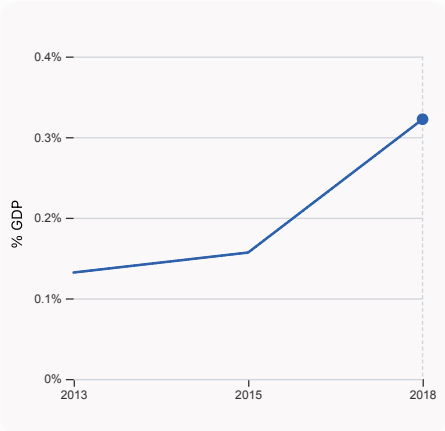
2.1.1 Expenditure on education, % GDP
was equal to 3.86% GDP in 2021, up by 0.13 percentage points from the year prior – and equivalent to an indicator rank of 79.



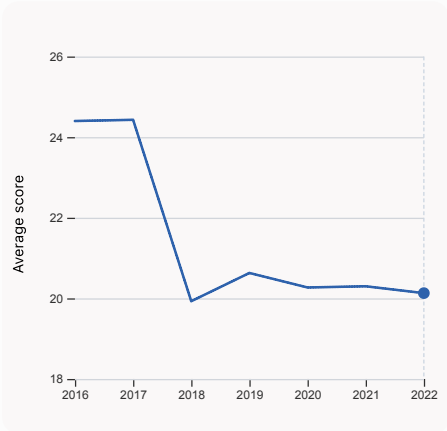
2.2.2 Graduates in science and engineering, %
was equal to 26.27% of total tertiary graduates in 2021, up by 3.44 percentage points from the year prior – and equivalent to an indicator rank of 37.



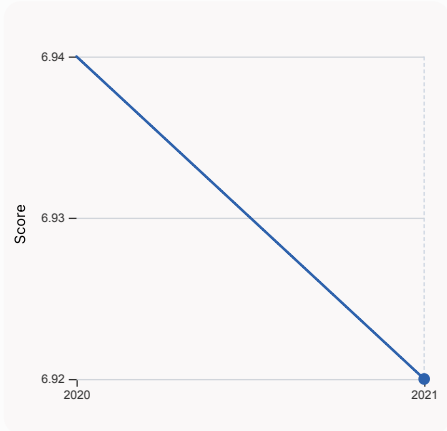
2.3.1 Researchers, FTE/mn pop.
was equal to 173.64 FTE/mn pop. in 2018, up by 64.31% from the year prior – and equivalent to an indicator rank of 84.



2.3.2 Gross expenditure on R&D, % GDP
was equal to 0.322% GDP in 2018, up by 0.17 percentage points from the year prior – and equivalent to an indicator rank of 73.

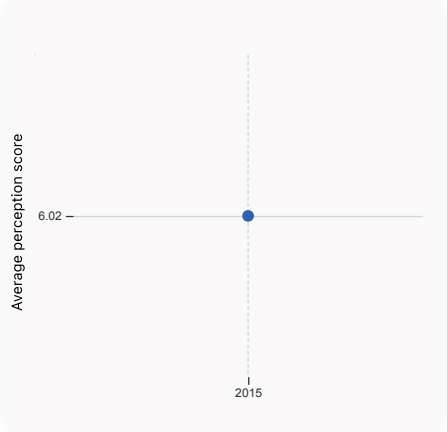


2.3.4 QS university ranking, top 3
was equal to an average score of 20.13 for the top 3 universities in 2022, down by 0.84% from the year prior – and equivalent to an indicator rank of 51.



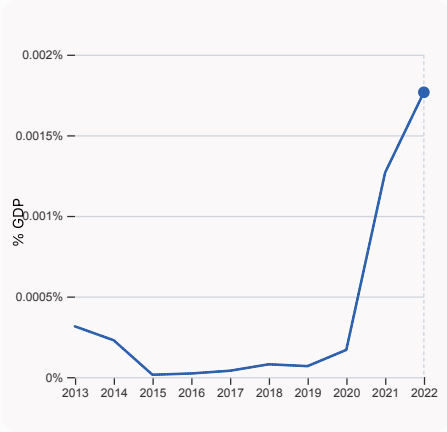
3.1.1 ICT access
was equal to a score of 6.92 in 2021, down by 0.29% from the year prior – and equivalent to an indicator rank of 103.

Global Innovation Index 2023



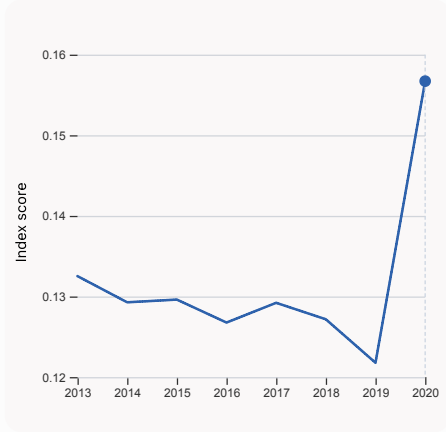
4.1.1 Finance for startups and scaleups

was equal to an average perception score of 6.02 in 2015, equivalent to an indicator rank of 7.



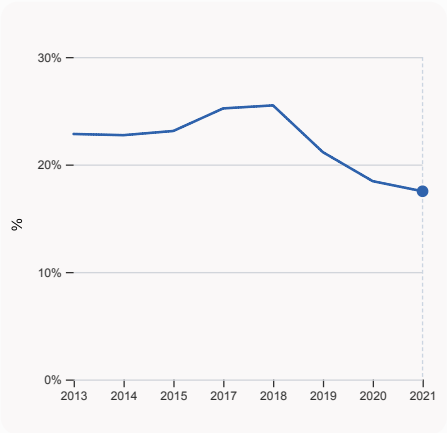
4.2.4 VC received, value, % GDP

was equal to 0.00177% GDP in 2022, up by 0.0005 percentage points from the year prior – and equivalent to an indicator rank of 47.



4.3.2 Domestic industry diversification

was equal to an index score of 0.157 in 2020, up by 28.68% from the year prior – and equivalent to an indicator rank of 51.

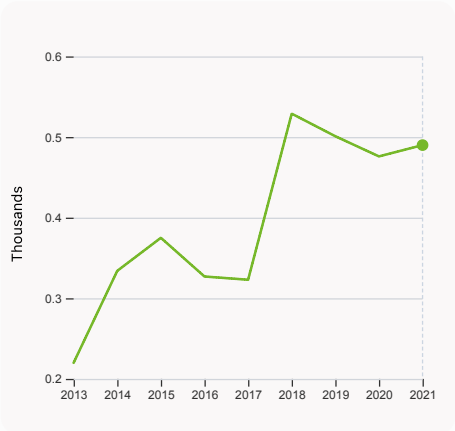


5.1.1 Knowledge-intensive employment, %

was equal to 17.51% in 2021, down by 0.94 percentage points from the year prior – and equivalent to an indicator rank of 83.

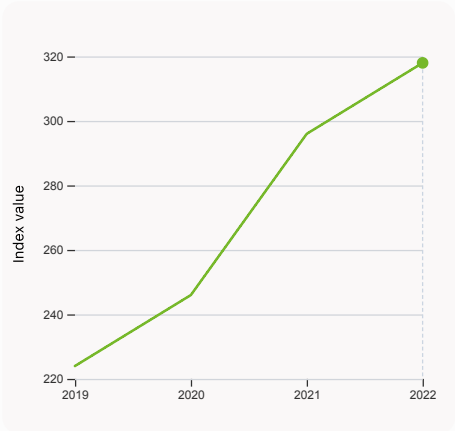
Global Innovation Index 2023

> Innovation outputs in Philippines



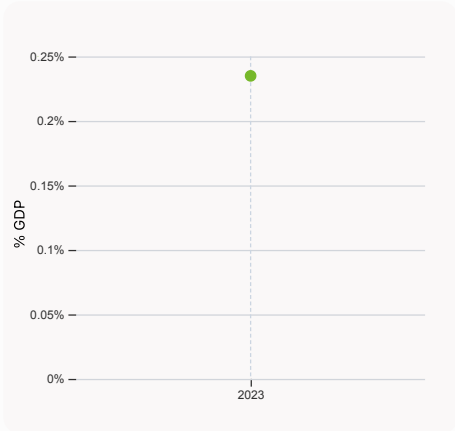
6.1.1 Patents by origin

was equal to 0.49 Thousands in 2021, up by 2.94% from the year prior – and equivalent to an indicator rank of 81.



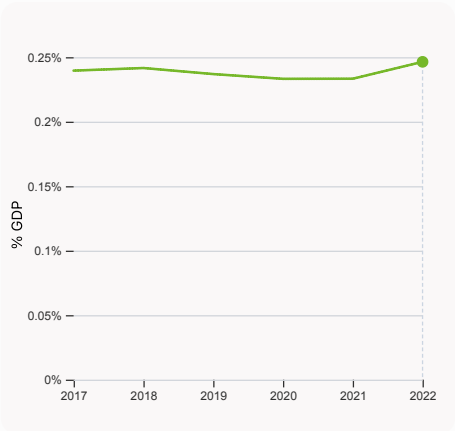
6.1.5 Citable documents H-index

was equal to an index value of 318 in 2022, up by 7.43% from the year prior – and equivalent to an indicator rank of 55.



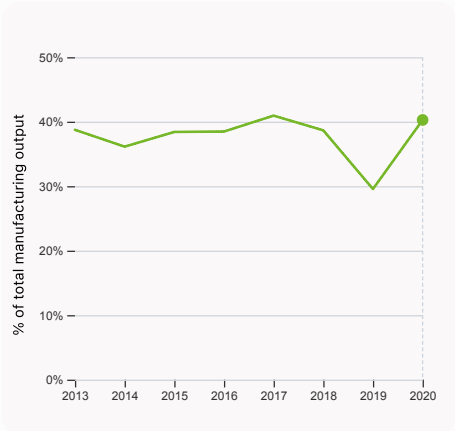
6.2.2 Unicorn valuation, % GDP

was equal to 0.235 % GDP in 2023 – and equivalent to an indicator rank of 44.



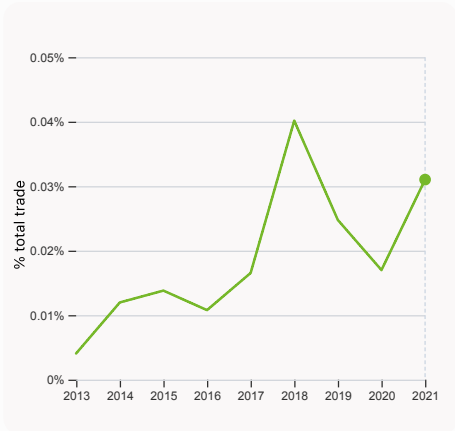
6.2.3 Software spending, % GDP

was equal to 0.246% GDP in 2022, up by 0.013 percentage points from the year prior – and equivalent to an indicator rank of 57.



6.2.4 High-tech manufacturing, %

was equal to 40.27% of total manufacturing output in 2020, up by 10.71 percentage points from the year prior – and equivalent to an indicator rank of 26.



6.3.1 Intellectual property receipts, % total trade

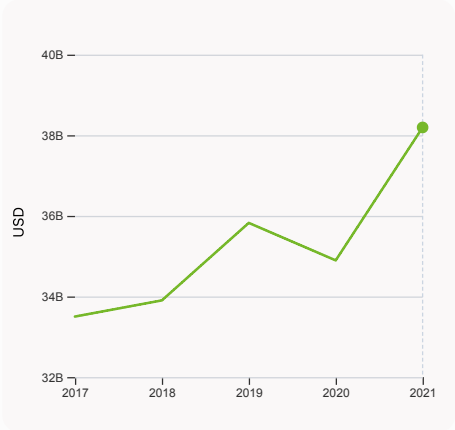
was equal to 0.031% total trade in 2021, up by 0.014 percentage points from the year prior – and equivalent to an indicator rank of 82.

Global Innovation Index 2023



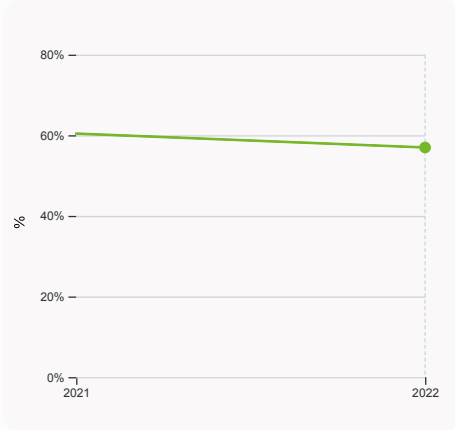
6.3.2 Production and export complexity

was equal to a score of 0.837 in 2020, down by 11.16% from the year prior – and equivalent to an indicator rank of 30.



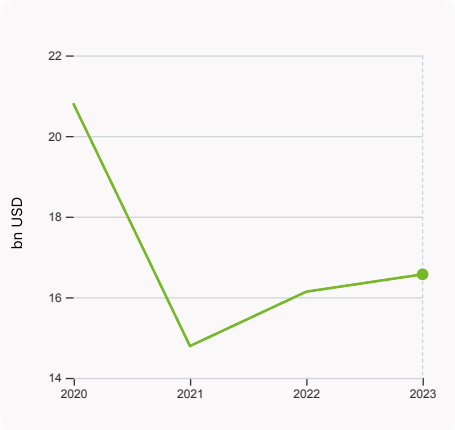
6.3.3 High-tech exports

was equal to 38,194,373,145 USD in 2021, up by 9.45% from the year prior – and equivalent to an indicator rank of 2.



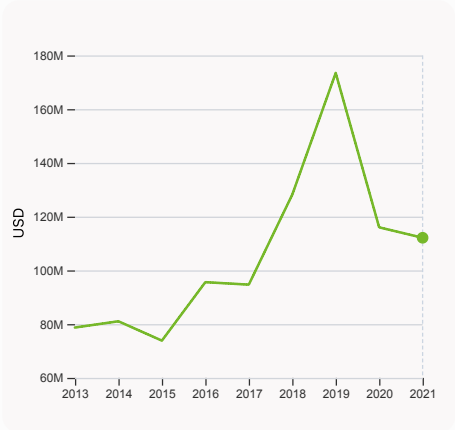
7.1.1 Intangible asset intensity, top 15, %

was equal to 56.97% in 2022, down by 3.45 percentage points from the year prior – and equivalent to an indicator rank of 41.



7.1.3 Global brand value, top 5,000

was equal to 16.569 bn USD in 2023, up by 2.67% from the year prior – and equivalent to an indicator rank of 38.



7.2.1 Cultural and creative services exports

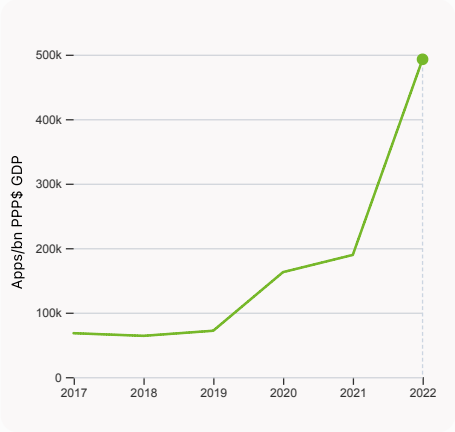
was equal to 112,144,000 USD in 2021, down by 3.34% from the year prior – and equivalent to an indicator rank of 85.



7.2.2 National feature films/mn pop. 15-69

was equal to 1.07 films/mn pop. 15-69 in 2021, up by 84.48% from the year prior – and equivalent to an indicator rank of 59.

Global Innovation Index 2023



7.3.4 Mobile app creation/bn PPP\$ GDP

was equal to 492,782.11 Apps/bn PPP\$ GDP in 2022, up by 160.087% from the year prior – and equivalent to an indicator rank of 55.

Global Innovation Index 2023

→ Philippines's innovation top performers

> 2.3.4 QS university ranking of Philippines’s top universities

Rank	University	Score
412	UNIVERSITY OF THE PHILIPPINES	27.70
651-700	ATENEO DE MANILA UNIVERSITY	18.20
801-1000	DE LA SALLE UNIVERSITY	14.50

Source: QS Quacquarelli Symonds Ltd (<https://www.topuniversities.com/university-rankings/world-university-rankings/2023>).

Note: QS Quacquarelli Symonds Ltd annually assesses over 1,200 universities across the globe and scores them between [0,100]. Ranks can represent a single value "x", a tie "x=" or a range "x-y".

> 6.2.2 Top Unicorn Companies in Philippines

Rank	Unicorn Company	Industry	City	Valuation, bn USD
1	REVOLUTION PRECRAFTED	Other	Manila	1

Source: CBInsights, Tracker – The Complete List of Unicorn Companies: <https://www.cbinsights.com/research-unicorn-companies>

> 7.1.1 Top 15 intangible-asset intensive companies in Philippines

Rank	Firm	Intensity, %
1	SM INVESTMENTS CORP	33.12
2	SM PRIME HOLDINGS INC	49.32
3	INTERNATIONAL CONTAINER TERMINAL SERVICES INC	71.19

Source: Brand Finance (<https://brandirectory.com/reports/gift-2022>).

Note: Brand Finance only provides within economy ranks.

> 7.1.3 Top 5,000 companies in Philippines with highest global brand value

Rank	Brand	Industry	Brand Value, mn USD
1	PLDT	Telecoms	2,565.6
2	BDO	Banking	2,158.4
3	GLOBE TELECOM	Telecoms	2,028.0

Source: Brand Finance (<https://brandirectory.com>).








Note: Rank corresponds to within economy ranks.

Global Innovation Index 2023

Philippines

GII 2023 rank

56

Output rank	Input rank	Income	Region	Population (mn)	GDP, PPP\$ (bn)	GDP per capita, PPP\$
52	69	Lower middle	SEAO	115.6	1,154.9	10,343.6
Score / Value Rank				Score / Value Rank		
 Institutions				 Business sophistication		
1.1 Institutional environment				5.1 Knowledge workers		
1.1.1 Operational stability for businesses*				5.1.1 Knowledge-intensive employment, %		
1.1.2 Government effectiveness*				5.1.2 Firms offering formal training, %		
1.2 Regulatory environment				5.1.3 GERD performed by business, % GDP		
1.2.1 Regulatory quality*				5.1.4 GERD financed by business, %		
1.2.2 Rule of law*				5.1.5 Females employed w/advanced degrees, %		
1.2.3 Cost of redundancy dismissal				5.2 Innovation linkages		
1.3 Business environment				5.2.1 University-industry R&D collaboration†		
1.3.1 Policies for doing business†				5.2.2 State of cluster development†		
1.3.2 Entrepreneurship policies and culture†				5.2.3 GERD financed by abroad, % GDP		
 Human capital and research				5.2.4 Joint venture/strategic alliance deals/bn PPP\$ GDP		
2.1 Education				5.2.5 Patent families/bn PPP\$ GDP		
2.1.1 Expenditure on education, % GDP				5.3 Knowledge absorption		
2.1.2 Government funding/pupil, secondary, % GDP/cap				5.3.1 Intellectual property payments, % total trade		
2.1.3 School life expectancy, years				5.3.2 High-tech imports, % total trade		
2.1.4 PISA scales in reading, maths and science				5.3.3 ICT services imports, % total trade		
2.1.5 Pupil-teacher ratio, secondary				5.3.4 FDI net inflows, % GDP		
2.2 Tertiary education				5.3.5 Research talent, % in businesses		
2.2.1 Tertiary enrolment, % gross				 Knowledge and technology outputs		
2.2.2 Graduates in science and engineering, %				6.1 Knowledge creation		
2.2.3 Tertiary inbound mobility, %				6.1.1 Patents by origin/bn PPP\$ GDP		
2.3 Research and development (R&D)				6.1.2 PCT patents by origin/bn PPP\$ GDP		
2.3.1 Researchers, FTE/mn pop.				6.1.3 Utility models by origin/bn PPP\$ GDP		
2.3.2 Gross expenditure on R&D, % GDP				6.1.4 Scientific and technical articles/bn PPP\$ GDP		
2.3.3 Global corporate R&D investors, top 3, mn US\$				6.1.5 Citable documents H-index		
2.3.4 QS university ranking, top 3*				6.2 Knowledge impact		
 Infrastructure				6.2.1 Labor productivity growth, %		
3.1 Information and communication technologies (ICTs)				6.2.2 Unicorn valuation, % GDP		
3.1.1 ICT access*				6.2.3 Software spending, % GDP		
3.1.2 ICT use*				6.2.4 High-tech manufacturing, %		
3.1.3 Government's online service*				6.3 Knowledge diffusion		
3.1.4 E-participation*				6.3.1 Intellectual property receipts, % total trade		
3.2 General infrastructure				6.3.2 Production and export complexity		
3.2.1 Electricity output, GWh/mn pop.				6.3.3 High-tech exports, % total trade		
3.2.2 Logistics performance*				6.3.4 ICT services exports, % total trade		
3.2.3 Gross capital formation, % GDP				6.3.5 ISO 9001 quality/bn PPP\$ GDP		
3.3 Ecological sustainability				 Creative outputs		
3.3.1 GDP/unit of energy use				7.1 Intangible assets		
3.3.2 Environmental performance*				7.1.1 Intangible asset intensity, top 15, %		
3.3.3 ISO 14001 environment/bn PPP\$ GDP				7.1.2 Trademarks by origin/bn PPP\$ GDP		
 Market sophistication				7.1.3 Global brand value, top 5,000		
4.1 Credit				7.1.4 Industrial designs by origin/bn PPP\$ GDP		
4.1.1 Finance for startups and scaleups†				7.2 Creative goods and services		
4.1.2 Domestic credit to private sector, % GDP				7.2.1 Cultural and creative services exports, % total trade		
4.1.3 Loans from microfinance institutions, % GDP				7.2.2 National feature films/mn pop. 15-69		
4.2 Investment				7.2.3 Entertainment and media market/th pop. 15-69		
4.2.1 Market capitalization, % GDP				7.2.4 Creative goods exports, % total trade		
4.2.2 Venture capital (VC) investors, deals/bn PPP\$ GDP				7.3 Online creativity		
4.2.3 VC recipients, deals/bn PPP\$ GDP				7.3.1 Generic top-level domains (TLDs)/th pop. 15-69		
4.2.4 VC received, value, % GDP				7.3.2 Country-code TLDs/th pop. 15-69		
4.3 Trade, diversification, and market scale				7.3.3 GitHub commits/mn pop. 15-69		
4.3.1 Applied tariff rate, weighted avg., %				7.3.4 Mobile app creation/bn PPP\$ GDP		
4.3.2 Domestic industry diversification						
4.3.3 Domestic market scale, bn PPP\$						

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/gii-ranking>. Square brackets [] indicate that the data minimum coverage (DMC) requirements were not met at the sub-pillar or pillar level.

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→ Data availability

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



> Philippines has missing data for two indicators and outdated data for twelve indicators.

> Missing data for Philippines

Code	Indicator name	Economy Year	Model Year	Source
2.1.2	Government funding/pupil, secondary, % GDP/cap	n/a	2019	UNESCO Institute for Statistics
2.2.3	Tertiary inbound mobility, %	n/a	2020	UNESCO Institute for Statistics

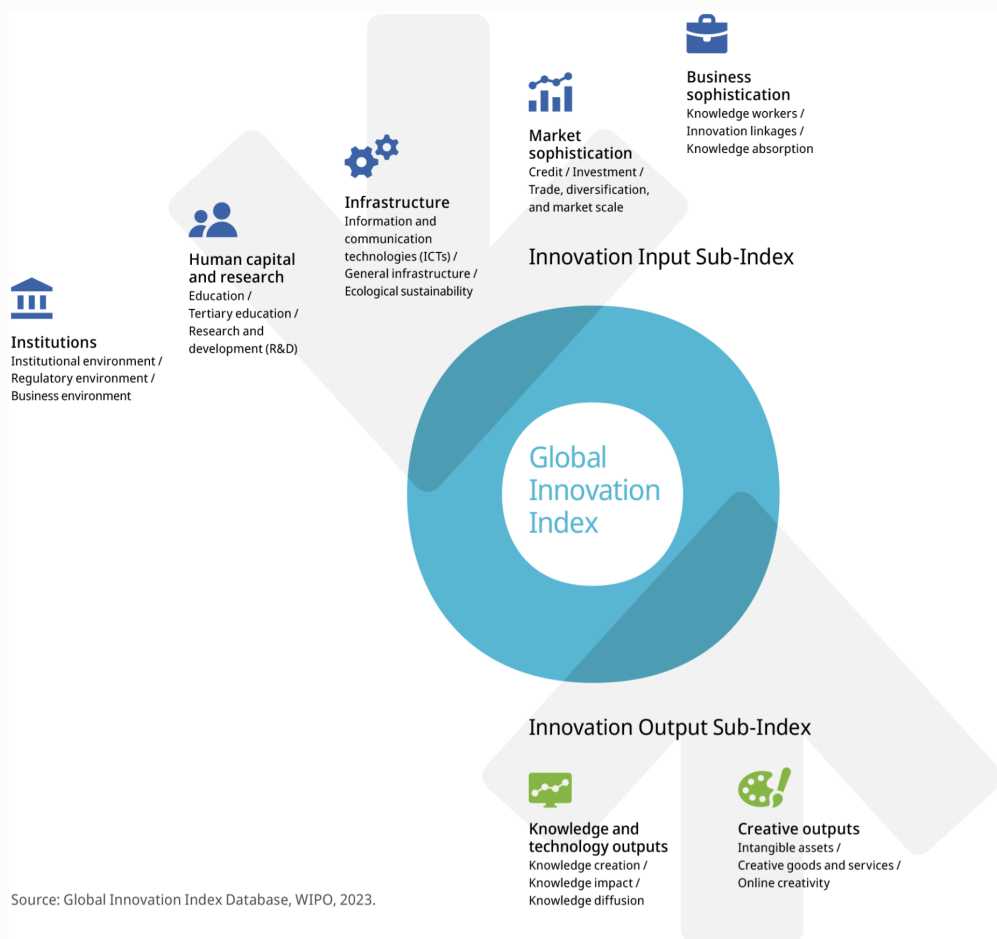
> Outdated data for Philippines

Code	Indicator name	Economy Year	Model Year	Source
1.3.2	Entrepreneurship policies and culture	2015	2022	Global Entrepreneurship Monitor
2.3.1	Researchers, FTE/mn pop.	2018	2021	UNESCO Institute for Statistics; Eurostat; OECD; RICYT
2.3.2	Gross expenditure on R&D, % GDP	2018	2021	UNESCO Institute for Statistics; Eurostat; OECD; RICYT
3.2.1	Electricity output, GWh/mn pop.	2020	2021	International Energy Agency
4.1.1	Finance for startups and scaleups	2015	2022	Global Entrepreneurship Monitor
5.1.1	Knowledge-intensive employment, %	2021	2022	International Labour Organization
5.1.2	Firms offering formal training, %	2015	2019	World Bank Enterprise Surveys
5.1.3	GERD performed by business, % GDP	2015	2021	UNESCO Institute for Statistics; Eurostat; OECD; RICYT
5.1.4	GERD financed by business, %	2015	2020	UNESCO Institute for Statistics; Eurostat; OECD; RICYT
5.1.5	Females employed w/advanced degrees, %	2018	2022	International Labour Organization
5.2.3	GERD financed by abroad, % GDP	2015	2020	UNESCO Institute for Statistics; Eurostat; OECD; RICYT
5.3.5	Research talent, % in businesses	2015	2021	UNESCO Institute for Statistics; Eurostat; OECD; RICYT

Global Innovation Index 2023

→ 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.