



PHILIPPINES

51St Philippines ranks 51st among the 132 economies featured in the GII 2021.

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.

The following table shows the rankings of Philippines over the past three years, noting that 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 2021 is between ranks 47 and 55.

	GII	Innovation inputs	Innovation outputs
2021	51	72	40
2020	50	70	41
2019	54	76	42

Rankings for Philippines (2019–2021)

- Philippines performs better in innovation outputs than innovation inputs in 2021.
- This year Philippines ranks 72nd in innovation inputs, lower than last year but higher than 2019.
- As for innovation outputs, Philippines ranks 40th. This position is higher than both 2020 and 2019.

4th Philippines ranks 4th among the 34 lower middle-income group economies.

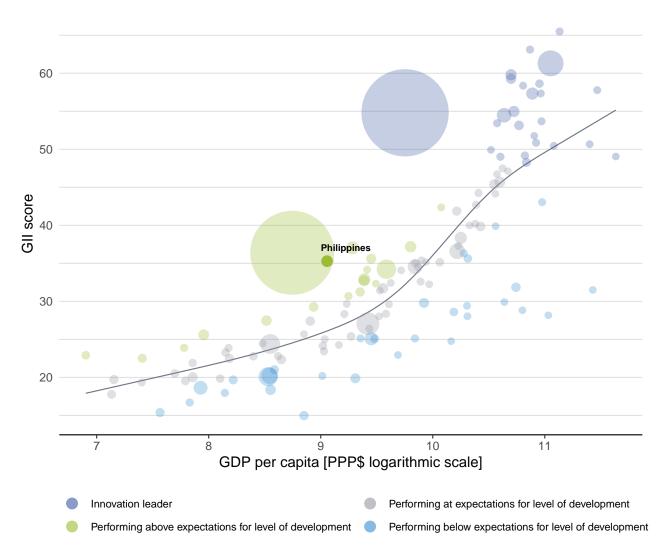
11th Philippines ranks 11th among the 17 economies in South East Asia, East Asia, and Oceania.



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's performance is above expectations for its level of development.



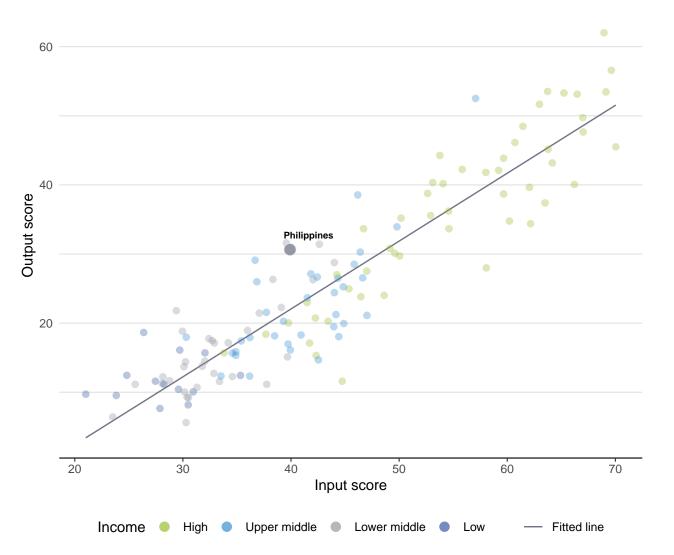
The positive relationship between innovation and development



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.

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

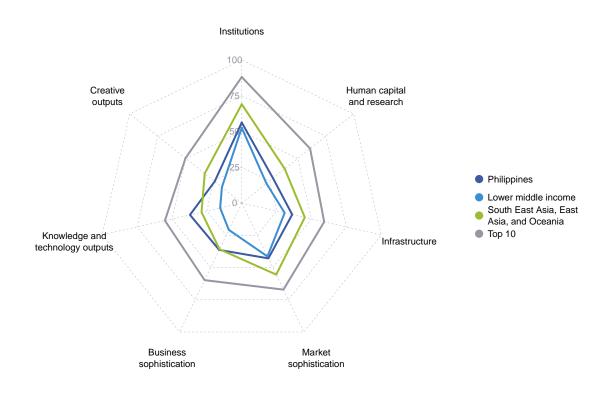


Innovation input to output performance



BENCHMARKING AGAINST OTHER LOWER MIDDLE-INCOME GROUP ECONOMIES AND SOUTH EAST ASIA, EAST ASIA, AND OCEANIA

The seven GII pillar scores for Philippines



Lower middle-income group economies

Philippines performs above the lower middle-income group average in all GII pillars.

South East Asia, East Asia, and Oceania

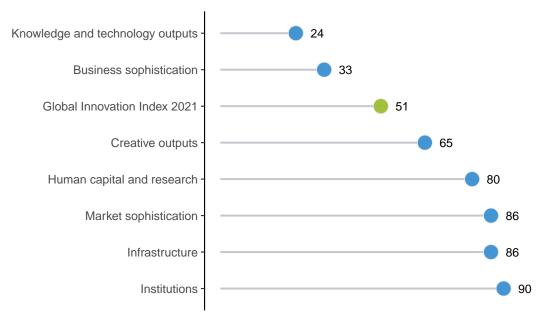
Philippines performs above the regional average in two pillars, namely: Business sophistication; and, Knowledge and technology outputs.



OVERVIEW OF RANKINGS IN THE SEVEN GII 2021 AREAS

Philippines performs best in Knowledge and technology outputs and its weakest performance is in Institutions.

The seven GII pillar ranks for Philippines



Note: The highest possible ranking in each pillar is one.



INNOVATION STRENGTHS AND WEAKNESSES

The table below gives an overview of the strengths and weaknesses of Philippines in the GII 2021.

Strengths and weaknesses for Philippines

Strengths				Weaknesses			
Code	Indicator name	Rank	Code	Indicator name	Rank		
2.2.2	Graduates in science and engineering, %	19	1.2.3	Cost of redudancy dismissal	114		
3.3.1	GDP/unit of energy use	21	1.3.1	Ease of starting a business	125		
4.3	Trade, diversification, and market scale	21	2.1.4	PISA scales in reading, maths and science	78		
4.3.1	Applied tariff rate, weighted avg., %	22	2.3.3	Global corporate R&D investors, top 3, mn US\$	41		
4.3.3	Domestic market scale, bn PPP\$	27	4.1	Credit	119		
5.1.2	Firms offering formal training, %	8	4.1.1	Ease of getting credit	113		
5.3	Knowledge absorption	10	4.2.3	Venture capital investors, deals/bn PPP\$ GDP	77		
5.3.2	High-tech imports, % total trade	1	5.2.3	GERD financed by abroad, % GDP	92		
6.1.3	Utility models by origin/bn PPP\$ GDP	8	6.1.4	Scientific and technical articles/bn PPP\$ GDP	124		
6.3	Knowledge diffusion	5	6.2.2	New businesses/th pop. 15–64	109		
6.3.3	High-tech exports, % total trade	1	7.2.4	Printing and other media, % manufacturing	87		
6.3.4	ICT services exports, % total trade	13					
7.2.5	Creative goods exports, % total trade	10					

Philippines

Gll 2021 rank



Outp	ut rank	Input rank	Income	Region	Po	oulat	ion (mn)	GDP, PPP\$ (bn)	GDP per capita, PPP\$	GII 20)20 ran
4	40	72	Lower middle	SEAO		10	9.6	933.9	8,574	ł	50
				Score/ Value	Donk					Score/ Value	Daple
俞	Institu	tions		56.3	90		2	Business sophist	tication	36.3	33
I.1.2 I.2.1 I.2.2 I.2.3 I.2.3	Political a Governm Regulato Regulato Rule of la Cost of r Busines	environment and operationa nent effectivend ory environmen aw* edundancy dis s environmen starting a busin	ıl stability* ess* ent missal t	55.4 62.5 51.8 50.2 43.7 34.1 27.4 63.2 71.3	74 89 69 104 71 94 114 94 125		5.1.1 5.1.2 5.1.3 (5.1.4 (5.1.5 5.2.1 5.2.2	nnovation linkages University-industry R& State of cluster develo	rathing, % (2) usiness, % GDP (2) siness, % (2) advanced degrees, % (2) ID collaboration [†] pment and depth [†]	0.1 38.0 12.4 17.1 43.7 42.3	47 77 8 ● 70 49 60 94 61 92
1.3.2	Ease of r	esolving insolv	ency*	55.1	60		5.2.4	GERD financed by abr Joint venture/strategic a Patent families/bn PPF	alliance deals/bn PPP\$ GDP	0.0 0.0 0.0	92 () 44 80
2.1.3 2.1.4	Education Expendit Governm School li PISA sca	ture on educati nent funding/pu fe expectancy,	on, % GDP pil, secondary, % GDP/ years maths and science	27.9 37.9 n/a cap n/a 0 13.1 349.7 25.2	n/a n/a 80 78	0	5.3 5.3.1 5.3.2 5.3.3 5.3.4	Knowledge absorpti	on ayments, % total trade total trade % total trade P	53.8 0.8 26.8 1.2 2.7	10 ● 58 1 ● 63 66 20
2.2.2	Tertiary e Graduate	education enrolment, % g es in science a nbound mobili	nd engineering, %	39.8 ② 35.5 ③ 28.7 n/a	41 79 19 0 n/a	•	6.1 6.1.1	Knowledge creation Patents by origin/bn P		37.1 19.1 0.5	24 55 79 80
2.3.2 2.3.3	Researcl Gross ex Global c	th and develop hers, FTE/mn p penditure on F proporate R&D i ersity ranking, t	oop. &D, % GDP nvestors, top 3, mn US	6.1 ⊘ 105.7 ⊘ 0.2 \$ 0.0 20.3	74 87 95 41 53	¢⊂	6.1.3 (6.1.4 9 6.1.5 (6.2 	PCT patents by origin/ Jtility models by origin Scientific and technica Citable documents H- Knowledge impact Labor productivity gro	n/bn PPP\$ GDP al articles/bn PPP\$ GDP index	0.0 2.5 2.1 14.8 33.6 1.6	8 ● 124 ○ 55 47 31
₽ [¢] 3.1		ructure	nication technologies (IC	36.1 (Ts) 58.1	86 87		6.2.3 S 6.2.4 I	New businesses/th po Software spending, % SO 9001 quality certif	GDP icates/bn PPP\$ GDP	0.3 0.2 4.2	109 ⊂ 59 63
3.1.1 3.1.2 3.1.3 3.1.4 3.2 3.2.1	ICT acce ICT use* Governm E-partici General Electricit	ess* nent's online se pation* infrastructur y output, GWh	ervice* e /mn pop.	44.1 40.2 72.9 75.0 21.5 930.1	100 98 60 57 101 100	* *	6.3 6.3.1 6.3.2 6.3.3	High-tech manufacturi Knowledge diffusion ntellectual property re Production and export High-tech exports, % CT services exports, 9	cceipts, % total trade complexity total trade	40.3 58.7 0.0 59.5 32.3 5.4	27 5 80 35 1 13
3.2.3	Gross ca	performance* pital formation	, % GDP	39.8 19.1	59 95	•	€;	Creative outputs		24.2	65
3.3.2	GDP/unit Environn	cal sustainabi t of energy use nental perform 1 environmenta	-	28.9 15.1 38.4 IDP 1.0	63 21 92 67	•	7.1.1 7.1.2 7.1.3	Intangible assets Frademarks by origin/I Global brand value, to ndustrial designs by o CTs and organizationa	p 5,000, % GDP rigin/bn PPP\$ GDP	29.9 34.0 40.3 1.1 61.7	71 66 39 65 39
ĩi		t sophistica	ation	42.9	86			Creative goods and s Cultural and creative se	services rvices exports, % total trade	27.0 0.2	33 74
4.1.2 4.1.3	Domesti Microfina	ance gross loai	ate sector, % GDP ns, % GDP	40.0 48.0 0.0	119 113 74 70		7.2.3 F 7.2.4 F	National feature films/r Entertainment and me Printing and other meo Creative goods export	dia market/th pop. 15–69 Jia, % manufacturing	4.0	89 49 87 ⊖ 10 ●
4.2.2 4.2.3	Market c Venture c Venture c	protecting mino apitalization, % capital investor capital recipien			102 71 21 77 (74 21		7.3.1 (7.3.2 (7.3.3 \	Online creativity Generic top-level dom Country-code TLDs/th Wikipedia edits/mn po Mobile app creation/b	p. 15–69	10.0 1.1 0.4 37.5 2.8	92 93 100 89 67
4.3.1 4.3.2	Applied 1 Domesti	ariff rate, weig c industry dive c market scale	hted avg., % rsification	1.7 93.4 933.9	22 39 27	•					

NOTES: \bullet indicates a strength; \bigcirc a weakness; \bullet an income group strength; \diamondsuit an income group weakness; * an index; † a survey question. \oslash indicates that the economy's data are older than the base year; see Appendix IV for details, including the year of the data, at http://globalinnovationindex.org. Square brackets [] indicate that the data minimum coverage (DMC) requirements were not met at the sub-pillar or pillar level.



DATA AVAILABILITY

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

Missing data for Philippines

Code	Indicator name	Economy year	Model year	Source
2.1.1	Expenditure on education, % GDP	n/a	2017	UNESCO Institute for Statistics
2.1.2	Government funding/pupil, secondary, % GDP/cap	n/a	2017	UNESCO Institute for Statistics
2.2.3	Tertiary inbound mobility, %	n/a	2018	UNESCO Institute for Statistics

Outdated data for Philippines

Code	Indicator name	Economy year	Model year	Source
2.1.3	School life expectancy, years	2017	2018	UNESCO Institute for Statistics
2.2.1	Tertiary enrolment, % gross	2017	2018	UNESCO Institute for Statistics
2.2.2	Graduates in science and engineering, %	2017	2018	UNESCO Institute for Statistics; Eurostat; OECD - Main Science and Technology Indicators
2.3.1	Researchers, FTE/mn pop.	2015	2019	UNESCO Institute for Statistics; Eurostat; OECD - Main Science and Technology Indicators
2.3.2	Gross expenditure on R&D, % GDP	2015	2019	UNESCO Institute for Statistics; Eurostat; OECD - Main Science and Technology Indicators
5.1.2	Firms offering formal training, %	2015	2019	World Bank
5.1.3	GERD performed by business, % GDP	2015	2019	UNESCO Institute for Statistics; Eurostat; OECD - Main Science and Technology Indicators
5.1.4	GERD financed by business, %	2015	2018	UNESCO Institute for Statistics; Eurostat; OECD - Main Science and Technology Indicators
5.1.5	Females employed w/advanced degrees, %	2016	2019	International Labour Organization



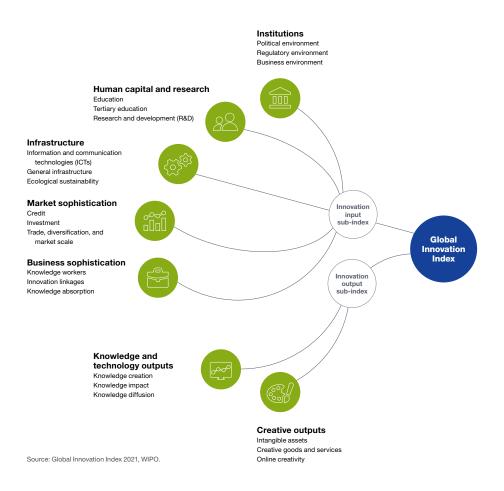
Code	Indicator name	Economy year	Model year	Source
5.2.3	GERD financed by abroad, % GDP	2015	2018	UNESCO Institute for Statistics
5.3.5	Research talent, % in businesses	2015	2019	UNESCO Institute for Statistics; Eurostat; OECD - Main Science and Technology Indicators
7.2.2	National feature films/mn pop. 15–69	2013	2017	UNESCO Institute for Statistics
7.2.4	Printing and other media, % manufacturing	2017	2018	United Nations Industrial Development Organization



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.