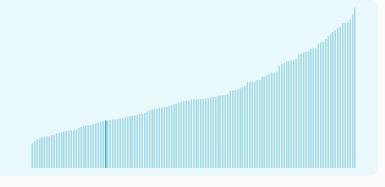


Cambodia ranking in the Global Innovation Index 2024

Cambodia ranks 103rd 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.



Cambodia ranks 21st among the 38 lowermiddle-income group economies.



Cambodia ranks 15th among the 17 economies in South East Asia, East Asia, and Oceania.



> Cambodia GII Ranking (2020-2024)

The table shows the rankings of Cambodia 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 Cambodia in the GII 2024 is between ranks 94 and 105.

Year	GII Position	Innovation Inputs	Innovation Outputs
2020	110th	117th	101st
2021	109th	106th	104th
2022	97th	92nd	102nd
2023	101st	97th	100th
2024	103rd	97th	103rd

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

This year Cambodia ranks 97th in innovation inputs. This position is the same as last year.

Cambodia ranks 103rd in innovation outputs. This position is lower than last year.

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



> Global Innovation Tracker

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



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

Science and innovation investment

Scientific publications	R&D investments	Venture	International patent filings	
		Deal numbers	Deal values	
▼ -21.8% 2022 - 2023	n/a	n/a	n/a	n/a
▲ 4.8% 2013 - 2023	n/a	n/a	n/a	n/a

Technology adoption

Safe sanitation	Conne	ectivity	Robots	Electric vehicles
	Fixed broadband	5G		
▲ 4.3% 2021 - 2022	▲ 50% 2021 - 2022	n/a	n/a	n/a
▲ 5.2% 2012 - 2022	▲ 31.2% 2012 - 2022		n/a	n/a
36.7 per 100 inhabitants in 2022	3 per 100 inhabitants in 2022	n/a		n/a

Socioeconomic impact

Labor productivity	Life expectancy	Temperature change	
▲ 4.4% 2022 - 2023	▲ 0.4% 2021 - 2022	▲ 1.3°C 2023	
▲ 3.3% 2013 - 2023	▲ 0.1% 2012 - 2022	n/a	
9,445 USD in 2023	69.9 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.

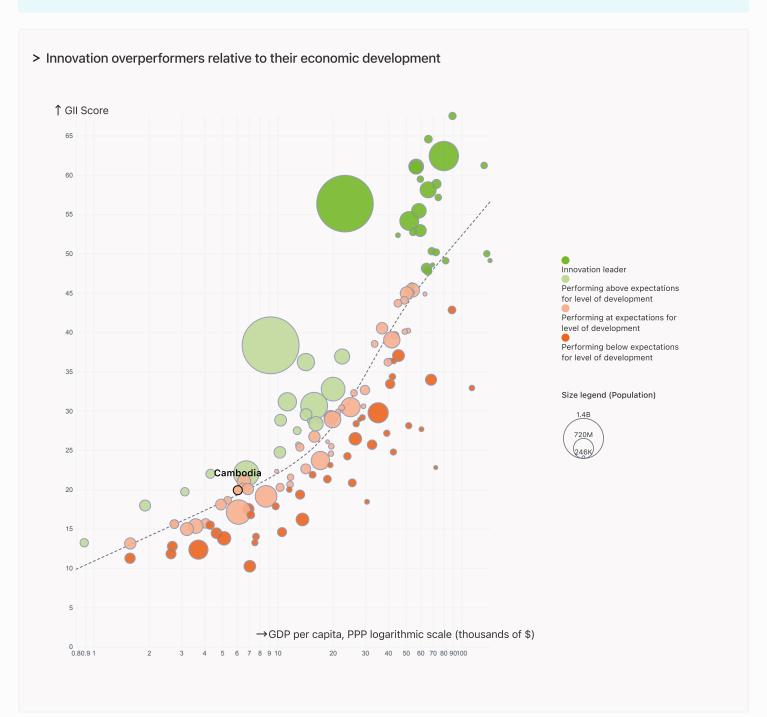


Expected vs. observed innovation performance

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



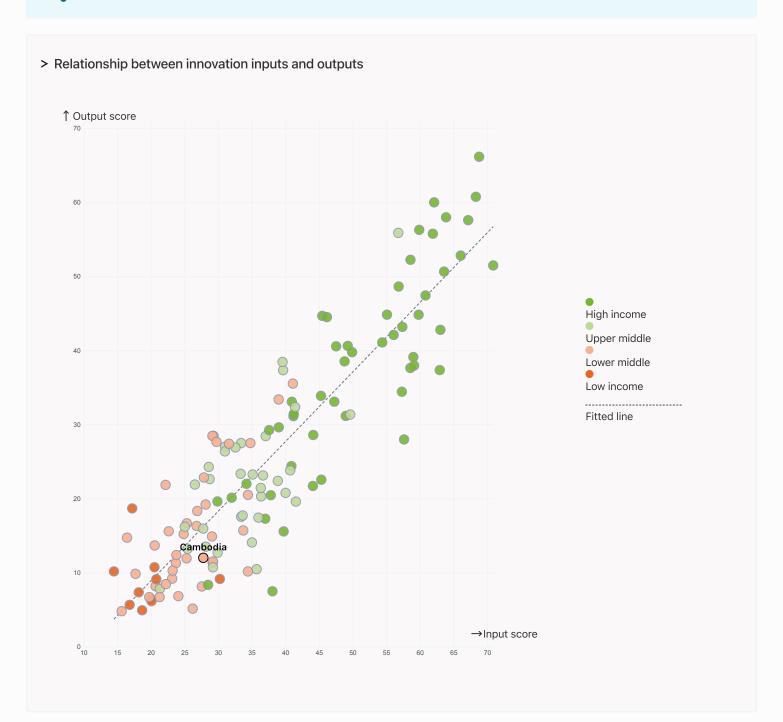


Effectively translating innovation investments into innovation outputs

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.



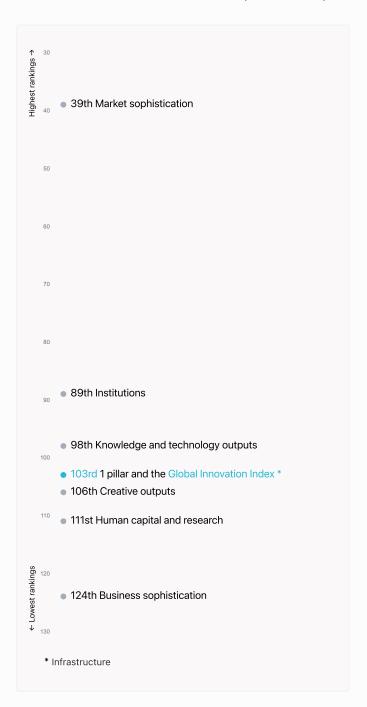
Cambodia produces less innovation outputs relative to its level of innovation investments.





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



Highest rankings



Cambodia ranks highest in Market sophistication (39th), Institutions (89th), Knowledge and technology outputs (98th) and Infrastructure (103rd).

Lowest rankings



Cambodia ranks lowest in Business sophistication (124th), Human capital and research (111st) and Creative outputs (106th).

The full WIPO Intellectual Property found on this link.

@ Statistics profile for Cambodia can be



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

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

Human capital and research



Lower-Middle-Income economies

Cambodia performs above the lower-middle-income group average in Institutions, Market sophistication.



South East Asia, East Asia, And Oceania

Infrastructure

Cambodia performs below the regional average in all pillars.

Institutions Top 10 | Score: 80.81 **SEAO | Score: 59.26** Cambodia | Score: 37.64 Lower middle income | Score: 34.0 Market sophistication Top 10 | Score: 62.12 SEAO | Score: 45.28 Cambodia | Score: 42.95 Lower middle income | Score: 25.9 Creative outputs Top 10 | Score: 56.54 SEAO | Score: 33.06 Lower middle income | Score: 15.71

Cambodia | Score: 11.63

Top 10 | Score: 61.30

SEAO | Score: 39.09

Lower middle income | Score: 22.1:

Cambodia | Score: 16.77

Cambodia | Score: 27.28

Business sophistication

Knowledge and technology outputs

Top 10 | Score: 63.64

Top 10 | Score: 63.64

SEAO | Score: 39.01

Lower middle income | Score: 20.8

Cambodia | Score: 14.44

Knowledge and technology outputs

Top 10 | Score: 57.29

SEAO | Score: 29.72

Lower middle income | Score: 15.6

Cambodia | Score: 12.29



Innovation strengths and weaknesses in Cambodia

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



Cambodia's main innovation strengths are **Loans from microfinance institutions**, % **GDP** (rank 1), **Domestic credit to private sector**, % **GDP** (rank 5) and **FDI net inflows**, % **GDP** (rank 7).

Strengths Weaknesses

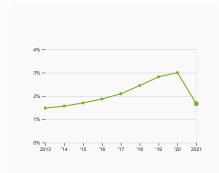
Rank	Code	Indicator name	Rank	Code	Indicator name
1	4.1.3	Loans from microfinance institutions, % GDP	128	6.1.1	Patents by origin/bn PPP\$ GDP
5	4.1.2	Domestic credit to private sector, % GDP	124	2.1.1	Expenditure on education, % GDP
7	5.3.4	FDI net inflows, % GDP	106	2.2.3	Tertiary inbound mobility, %
19	6.2.1	Labor productivity growth, %	102	3.2.2	Logistics performance*
34	2.1.5	Pupil-teacher ratio, secondary	99	6.1.2	PCT patents by origin/bn PPP\$ GDP
45	7.3.3	Mobile app creation/bn PPP\$ GDP	86	2.1.4	PISA scales in reading, maths and science
45	6.3.3	High-tech exports, % total trade	75	7.1.3	Global brand value, top 5,000, % GDP
46	5.2.4	Joint venture/strategic alliance deals/bn PPP\$ GDP	75	2.3.4	QS university ranking, top 3*
54	3.3.2	Low-carbon energy use, %	49	6.2.2	Unicorn valuation, % GDP
55	1.1.1	Operational stability for businesses*	41	2.3.3	Global corporate R&D investors, top 3, mn USD



Cambodia's innovation system

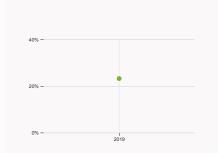
As far as practicable, the plots below present unscaled indicator data.

> Innovation inputs in Cambodia



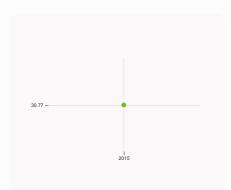
2.1.1 Expenditure on education

was equal to 1.67 % GDP in 2021, down by 1.33 percentage points from the year prior – and equivalent to an indicator rank of 124.



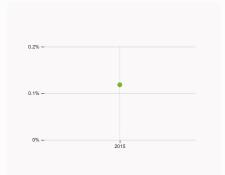
2.2.2 Graduates in science and engineering

was equal to 23.2 % of total graduates in 2019 – and equivalent to an indicator rank of 58.



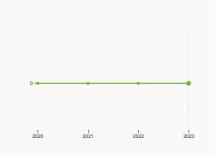
2.3.1 Researchers

was equal to 30.77 FTE per million population in 2015 – and equivalent to an indicator rank of 102.



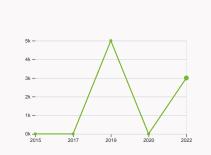
2.3.2 Gross expenditure on R&D

was equal to 0.12 % GDP in 2015 – and equivalent to an indicator rank of 99.



2.3.4 QS university ranking

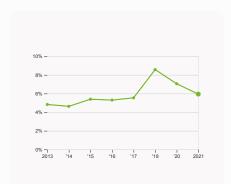
was equal to an average score of 0 for the top three universities in 2023 with no change from the year prior – and equivalent to an indicator rank of 75



4.2.4 VC received, value

was equal to 3 thousand USD in 2022, up by 300% from the year prior – and equivalent to an indicator rank of 83.



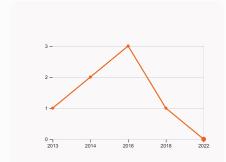


5.1.1 Knowledge-intensive employment

was equal to 5.94 % in 2021, down by 1.11 percentage points from the year prior – and equivalent to an indicator rank of 118.

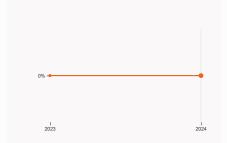


> Innovation outputs in Cambodia



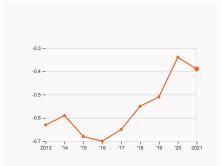
6.1.1 Patents by origin

was equal to 0 patents in 2022, down by 100% from the year prior – and equivalent to an indicator rank of 128.



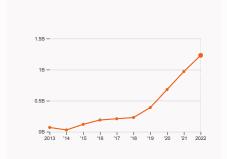
6.2.2 Unicorn valuation

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



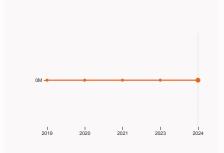
6.3.2 Production and export complexity

was equal to a score of -0.39 in 2021, down by 14.71% from the year prior – and equivalent to an indicator rank of 82.



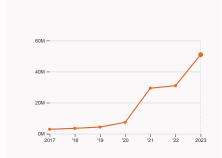
6.3.3 High-tech exports

was equal to 1.23 billion USD in 2022, up by 26.8% from the year prior – and equivalent to an indicator rank of 45.



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 50.93 million global downloads of mobile apps in 2023, up by 64.5% from the year prior – and equivalent to an indicator rank of 45.



Cambodia

4.3.3 Domestic market scale, bn PPP\$

103

Output rank 103	Input rank 97	Income Lower middle		gion EAO		Population (mn) 17.4	GDP, PPP\$ (bn) 98.3	GDP per cap 6,086		PPP\$
			Score / Value	Rank				Score / Value	Rank	
			37.6			Business sophistication	1		124	.
1.1 Institutional envir	onment		50.1	78	•	5.1 Knowledge workers		9	122	\Diamond
1.1.1 Operational stabil			65.3		• •	5.1.1 Knowledge-intensive emp	ployment. %	© 5.9		
1.1.2 Government effect	-		34.8			5.1.2 Firms offering formal train		10		
1.2 Regulatory enviro				113		5.1.3 GERD performed by busing		0.02		
1.2.1 Regulatory quality	y*		23.2	111		5.1.4 GERD financed by busine		1 9.4	70	
1.2.2 Rule of law*			19	112		5.1.5 Females employed w/adv	anced degrees, %	© 2.1	110	
1.3 Business environ	ment		41.8	[76]		5.2 Innovation linkages		17.3	96	
1.3.1 Policy stability for	r doing business†		Q 41.8	83		5.2.1 Public Research-Industry	co-publications, %	0.8	101	
1.3.2 Entrepreneurship	policies and culture [†]		n/a	n/a		5.2.2 University-industry R&D	collaboration [†]	Q 25.3	105	
Ruman capital a	and research		16.8	111		5.2.3 State of cluster development	nent [†]	9 41.7	80	
						5.2.4 Joint venture/strategic al	liance deals/bn PPP\$ GDP	0.02	46	•+
2.1 Education	duration % CDD			[117]	0.0	5.2.5 Patent families/bn PPP\$	GDP	0.07	62	•
2.1.1 Expenditure on ed		aan.	3 1.7		$\circ \circ$	5.3 Knowledge absorption				
2.1.2 Government fund 2.1.3 School life expec	ling/pupil, secondary, % GDP/c	Sap	n/a n/a	n/a n/a		5.3.1 Intellectual property payr	nents, % total trade		108	
	ading, maths and science		337.4		0 0	5.3.2 High-tech imports, % tot	al trade	3.8	124	
2.1.5 Pupil–teacher rat			9.9		• •	5.3.3 ICT services imports, % t	total trade	0.6		
2.2 Tertiary educatio						5.3.4 FDI net inflows, % GDP		13		••
2.2.1 Tertiary enrolmer			15			5.3.5 Research talent, % in bus	sinesses	9 4.3	74	
	ence and engineering, %		© 23.2			Knowledge and technol	logy outputs	12.3	98	
2.2.3 Tertiary inbound			0 0.3		0	6.1 Knowledge creation		2.7	120	
2.3 Research and dev			0.5	109		6.1.1 Patents by origin/bn PPP\$	GDP	0		0 0
2.3.1 Researchers, FTE			■ 30.8			6.1.2 PCT patents by origin/bn		0	99	00
2.3.2 Gross expenditur	re on R&D, % GDP		© 0.1	99		6.1.3 Utility models by origin/b	n PPP\$ GDP	-	-	
2.3.3 Global corporate	R&D investors, top 3, mn USD)	0	41	0 0	6.1.4 Scientific and technical a	rticles/bn PPP\$ GDP	3.4	114	
2.3.4 QS university ran	nking, top 3*		0	75	0 0	6.1.5 Citable documents H-ind	ex	5	99	
♥ Infrastructure			27.3	103		6.2 Knowledge impact		22	87	
						6.2.1 Labor productivity growth	1, %	2.4	19	•+
	ommunication technologies	(ICTs)		103		6.2.2 Unicorn valuation, % GDI	P	0	49	$\circ \diamond$
3.1.1 ICT access*						6.2.3 Software spending, % GI	OP .	0.03	117	\Diamond
3.1.2 ICT use*			71.7			6.2.4 High-tech manufacturing	1, %	n/a	n/a	
3.1.3 Government's on	line service*			116		6.3 Knowledge diffusion		12.1	85	
3.1.4 E-participation*	-4		26.7			6.3.1 Intellectual property rece	ipts, % total trade	0.04	80	
3.2 General infrastru			16			6.3.2 Production and export co	omplexity	33.3	82	
3.2.1 Electricity output 3.2.2 Logistics perforn			13.6		0	6.3.3 High-tech exports, % tot		4.1	45	••
3.2.3 Gross capital for			24.3			6.3.4 ICT services exports, % t		0.4		
3.3 Ecological sustain			15.9			6.3.5 ISO 9001 quality/bn PPP\$	\$ GDP	2.9	79	
3.3.1 GDP/unit of energ	-		8.1			Creative outputs		11.6	106	5
3.3.2 Low-carbon ener	5,				• •	7.1 Intangible assets		7.7	104	
3.3.3 ISO 14001 enviro				86		7.1.1 Intangible asset intensity,	top 15. %		n/a	
네 Market sophistic	•				• •	7.1.2 Trademarks by origin/bn F		28.6		
Market sophistic	sation		42.9	39	Y Y	7.1.3 Global brand value, top 5,		0		0 ◊
4.1 Credit			83.6	2	• +	7.1.4 Industrial designs by original		_	96	
4.1.1 Finance for startu	ıps and scaleups†		n/a	n/a		7.2 Creative goods and servi			[88]]
	to private sector, % GDP		180	-	• •	7.2.1 Cultural and creative serv	rices exports, % total trade	n/a	n/a	
	ofinance institutions, % GDP		31.7		• •	7.2.2 National feature films/mn	pop. 15-69	n/a	n/a	
4.2 Investment			2.6	104		7.2.3 Entertainment and media	market/th pop. 15-69	n/a	n/a	
4.2.1 Market capitaliza				n/a		7.2.4 Creative goods exports, 9	% total trade	0.5	62	
	VC) investors, deals/bn PPP\$ (GDP	0.02			7.3 Online creativity		24.5	69	
4.2.3 VC recipients, de			0.02			7.3.1 Top-level domains (TLDs)	/th pop. 15–69	0.4	110	
4.2.4 VC received, value			0.0001			7.3.2 GitHub commits/mn pop.	15-69	2.3	101	
	ation and market scale		42.6			7.3.3 Mobile app creation/bn P	PP\$ GDP	70.8	45	•+
4.3.1 Applied tariff rate				68	•					
4.3.2 Domestic industr	ry diversification		n/a	n/a						

NOTES: • indicates a strength; O a weakness; • an income group strength; o an income group weakness; * an index; † a survey question, • that the economy's data is outdated. Square brackets [] indicate the 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.

98.3 90



Data availability

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



Cambodia has missing data for twelve indicators and outdated data for eighteen indicators.

Missing data for Cambodia

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
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
4.3.2	Domestic industry diversification	n/a	2021	United Nations Industrial Development Organization (UNIDO), Industrial Statistics Database (INDSTAT) Rev.3 and 4
6.1.3	Utility models by origin/bn PPP\$ GDP	n/a	2022	World Intellectual Property Organization; International Monetary Fund
6.2.4	High-tech manufacturing, %	n/a	2021	United Nations Industrial Development Organization
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 Cambodia

Code	Indicator name	Economy Year	Model Year	Source
1.3.1	Policy stability for doing business [†]	2022	2023	World Economic Forum, Executive Opinion Survey (EOS)
2.1.1	Expenditure on education, % GDP	2021	2022	UNESCO Institute for Statistics
2.1.5	Pupil–teacher ratio, secondary	2021	2022	UNESCO Institute for Statistics



Code	Indicator name	Economy Year	Model Year	Source
2.2.2	Graduates in science and engineering, %	2019	2021	UNESCO Institute for Statistics; Eurostat; OECD
2.2.3	Tertiary inbound mobility, %	2021	2022	UNESCO Institute for Statistics
2.3.1	Researchers, FTE/mn pop.	2015	2022	UNESCO Institute for Statistics; Eurostat; OECD; RICYT
2.3.2	Gross expenditure on R&D, % GDP	2015	2022	UNESCO Institute for Statistics; Eurostat; OECD; RICYT
3.2.1	Electricity output, GWh/mn pop.	2021	2022	International Energy Agency
4.2.3	VC recipients, deals/bn PPP\$ GDP	2022	2023	LSEG Data & Analytics; International Monetary Fund
4.2.4	VC received, value, % GDP	2022	2023	LSEG Data & Analytics; International Monetary Fund
5.1.1	Knowledge-intensive employment, %	2021	2022	International Labour Organization
5.1.3	GERD performed by business, % GDP	2015	2022	UNESCO Institute for Statistics; Eurostat; OECD; RICYT
5.1.4	GERD financed by business, %	2015	2021	UNESCO Institute for Statistics; Eurostat; OECD; RICYT
5.1.5	Females employed w/advanced degrees, %	2021	2023	International Labour Organization
5.2.2	University-industry R&D collaboration [†]	2022	2023	World Economic Forum, Executive Opinion Survey (EOS)
5.2.3	State of cluster development [†]	2022	2023	World Economic Forum, Executive Opinion Survey (EOS)
5.3.5	Research talent, % in businesses	2015	2022	UNESCO Institute for Statistics; Eurostat; OECD; RICYT
7.1.4	Industrial designs by origin/bn PPP\$ GDP	2020	2022	World Intellectual Property Organization; International Monetary Fund



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.