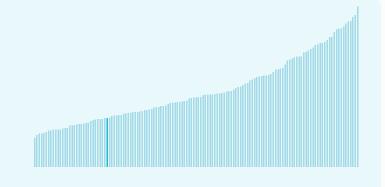


Tajikistan ranking in the Global Innovation Index 2025

Tajikistan ranks 108th among the 139 economies featured in the GII 2025.

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.



Tajikistan ranks 21st among the 37 Lower middleincome group economies.



Tajikistan ranks 10th among the 10 economies in Central and Southern Asia.



> Tajikistan GII Ranking (2020-2025)

The table shows the rankings of Tajikistan over the past six 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 Tajikistan in the GII 2025 is between ranks 95 and 110.

Year	GII Position	Innovation Inputs	Innovation Outputs
2020	109th	108th	99th
2021	103rd	104th	96th
2022	104th	104th	101st
2023	111st	109th	107th
2024	107th	106th	104th
2025	108th	105th	104th

Tajikistan performs better in innovation outputs than innovation inputs in 2025.

This year Tajikistan ranks 105th in innovation inputs. This position is higher than last year.

Tajikistan ranks 104th in innovation outputs. This position is the same as last year.

Tajikistan has no clusters in the world's top innovation clusters of the Global Innovation Index.



> Global Innovation Tracker

The Global Innovation Tracker 2025 shows what is the current state of innovation in Tajikistan, how rapidly is technology being embraced and what are the resulting societal impacts.

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

Science and innovation investment

	Scientific publications	R&D investments	Venture capital deal numbers	International patent filings	
Short term	▲ 21.5 % 2023 - 2024	0 % 2019 - 2020	▼ -33.3 % 2023 - 2024	n/a	
Long term (annual growth)	▲ 13.4 % 2014 - 2024	▲ 6.9 % 2010 - 2020	n/a	n/a	

Technology adoption

	Safe sanitation	Conne	ctivity	Robots	Electric vehicles
		Fixed broadband	5G		
Short term	n/a	▲ 4% 2021 - 2022	n/a	n/a	n/a
Long term (annual growth)	n/a	▲ 1.5% 2012 - 2022	n/a	n/a	n/a
Penetration	n/a	0.06 per 100 inhabitants in 2022	n/a	n/a	n/a

Socioeconomic impact

The second secon					
	Labor productivity	Life expectancy	Temperature change		
Short term	▲ 4.6 % 2023 - 2024	▲ 0.3 % 2022 - 2023	+ 2 °C		
Long term (annual growth)	▲ 5 % 2014 - 2024	▲ 0.3 % 2013 - 2023	+ 0.4 °C 2014		
Level	20,293.3 USD in 2024	71.8 years in 2023	n/a		

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 countries. from 1951–1980. Figures are rounded.

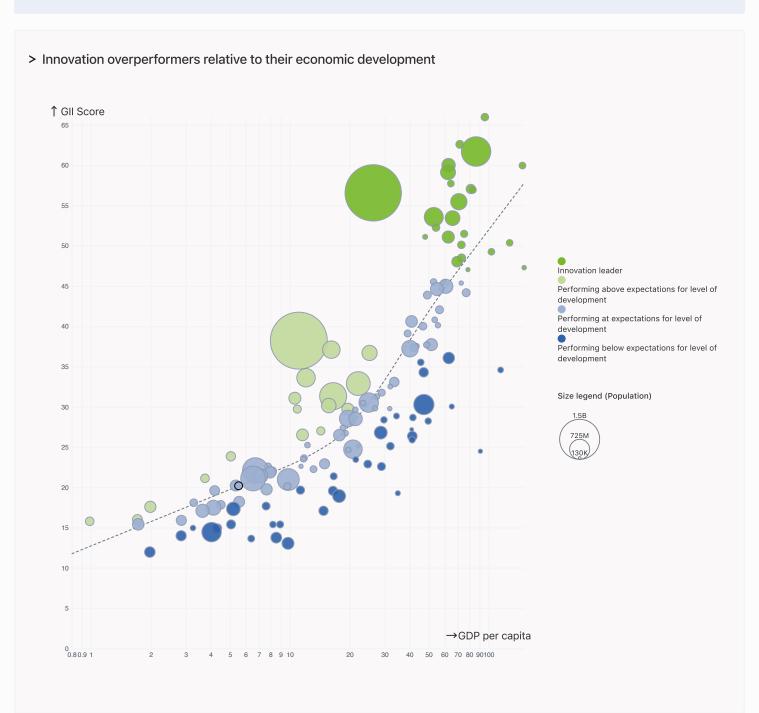


Expected vs. Observed Innovation Performance

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 Tajikistan performs at expectations for its level of development.



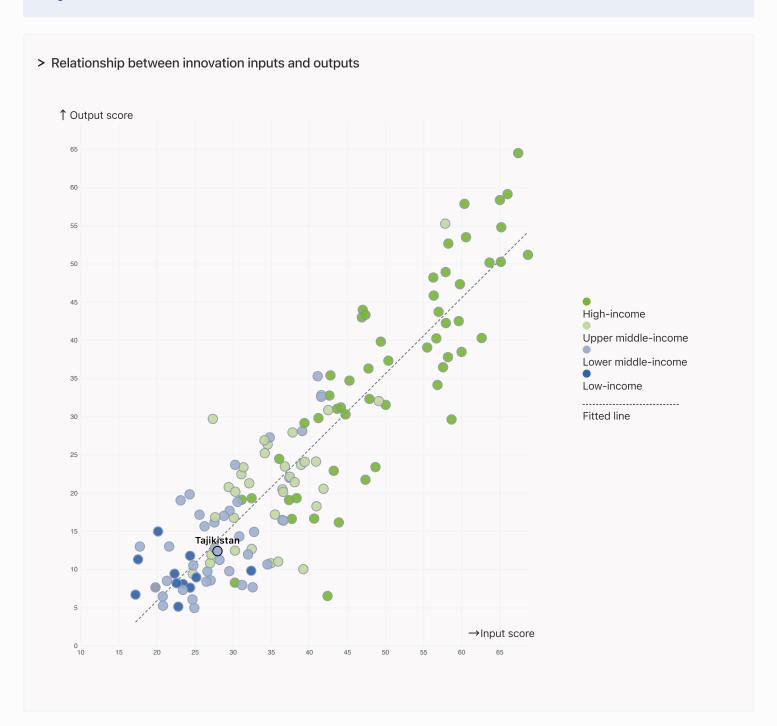


Effectively translating innovation investments into innovation outputs

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.



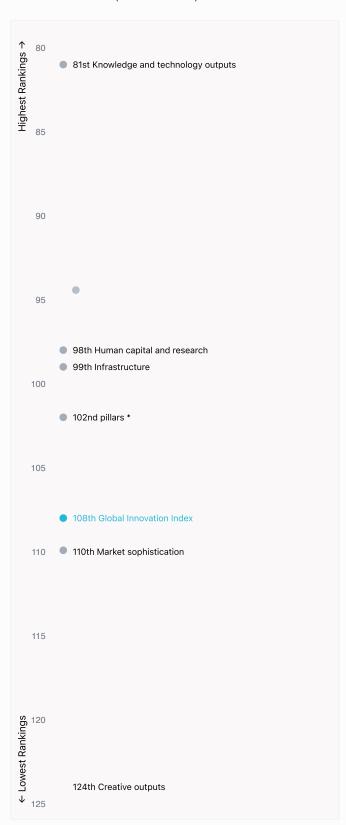
Tajikistan produces less innovation outputs relative to its level of innovation investments.





Overview of Tajikistan's rankings in the seven areas of the GII in 2025

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





Highest Rankings

Tajikistan ranks highest in Knowledge and technology outputs (81st), Human capital and research (98th) and Infrastructure (99th).



Lowest Rankings

Tajikistan ranks lowest in Creative outputs (124th), Market sophistication (110th) and Institutions, Business sophistication (102nd).

* Institutions, Business sophistication



The full WIPO Intellectual Property Statistics profile for Tajikistan can be found on

https://www.wipo.int/edocs/statistics-country-profile/en/tj.pdf



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

The charts shows the relative position of Tajikistan (blue bar) against other economy groupings (grey bars)



Lower middle-income economies

Tajikistan performs above the Lower middle-income group average in Human capital and research, Infrastructure, Knowledge and technology outputs.



Central and Southern Asia

Tajikistan performs below the regional average in all pillars.

Institutions

Top 10 | Score: 78.63

Lower middle-income | Score: 37.2

Central and Southern Asia | Score:

Tajikistan | Score: 35.34

Human capital and research

Top 10 | Score: 59.30

Central and Southern Asia | Score:

Tajikistan | Score: 22.44

Lower middle-income | Score: 20.9

Infrastructure

Top 10 | Score: 61.36

Central and Southern Asia | Score:

Tajikistan | Score: 32.96

Lower middle-income | Score: 32.1

Market sophistication

Top 10 | Score: 61.82

Central and Southern Asia | Score:

Lower middle-income | Score: 28.1

Tajikistan | Score: 25.94

Business sophistication

Top 10 | Score: 59.10

Lower middle-income | Score: 25.3

Central and Southern Asia | Score:

Tajikistan | Score: 23.26

Knowledge and technology outputs

Top 10 | Score: 54.93

Central and Southern Asia | Score:

Tajikistan | Score: 17.52

Lower middle-income | Score: 15.4

Creative outputs

Top 10 | Score: 55.98

Central and Southern Asia | Score:

Lower middle-income | Score: 13.8

Tajikistan | Score: 7.20



Innovation strengths and weaknesses in Tajikistan

The table below gives an overview of the indicator strengths and weaknesses of Tajikistan in the GII 2025.



Tajikistan's best-ranked innovation strengths are **Utility models by origin/bn PPP\$ GDP** (rank 1), **Labor productivity growth**, % (rank 3) and **Low-carbon energy use**, % (rank 5).

Strengths Weaknesses

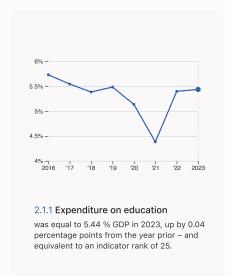
Rank	Code	Indicator name	Rank	Code	Indicator name
1	6.1.3	Utility models by origin/bn PPP\$ GDP	139	3.3.3	ISO 14001 environment/bn PPP\$ GDP
3	6.2.1	Labor productivity growth, %	139	6.3.5	ISO 9001 quality/bn PPP\$ GDP
5	3.3.2	Low-carbon energy use, %	136	1.2.2	Rule of law*
18	4.1.3	Loans from microfinance institutions, % GDP	135	5.2.1	Public research-industry co-publications, %
25	2.1.1	Expenditure on education, % GDP	100	5.2.5	Patent families/bn PPP\$ GDP
29	5.1.3	Youth demographic dividend, %	81	7.1.3	Global brand value, top 5,000, % GDP
51	7.3.3	Mobile app creation/bn PPP\$ GDP	80	2.3.4	QS university ranking, top 3*
57	1.3.1	Policy stability for doing business [†]	53	6.2.2	Unicorn valuation, % GDP
72	4.3.1	Applied tariff rate, weighted avg., %	44	2.3.3	Global corporate R&D investors, top 3, mn USD

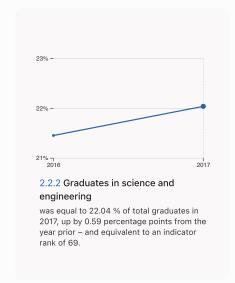


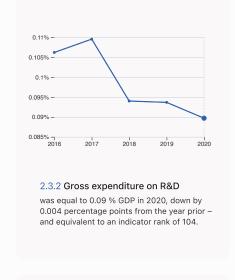
Tajikistan's innovation system

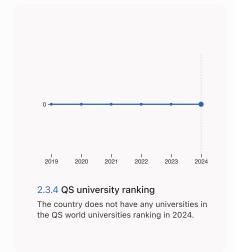
As far as practicable, the plots below present unscaled indicator data.

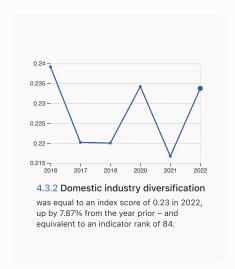
> Innovation inputs in Tajikistan

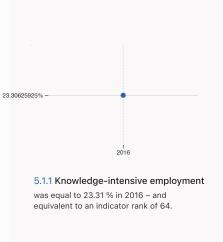






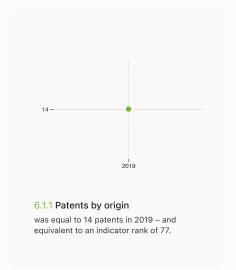


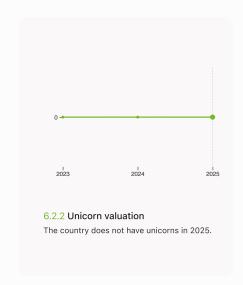


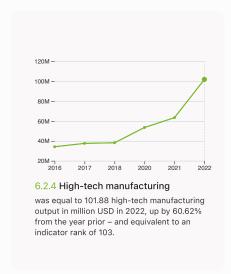


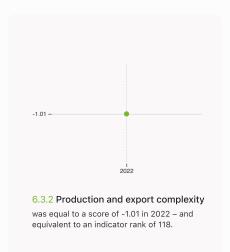


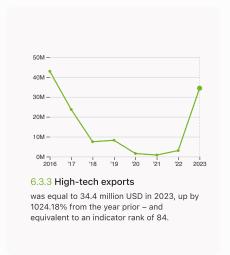
> Innovation outputs in Tajikistan

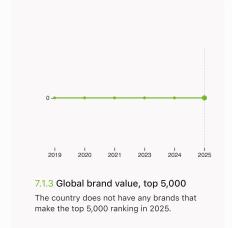


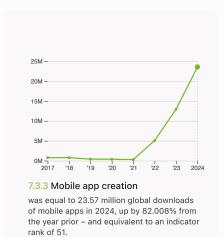












Tajikistan

108

Output rank 104		come r middle	Central	Reg		ern Asia	Population (mn) 10.6	GDP, PPP\$ (bn) 56.4	GDP per c	apita, 32.8	PPP\$
		S	core / Value	Rank					Score / Value	Rank	
			35.3	102		🖴 Bu	siness sophistication		23.3	102	
1.1 Institutional e	nvironment		31.4			5.1 Kn	owledge workers		42.3	[48]	
	tability for businesses*		38.7			5.1.1 K	nowledge-intensive employ	yment, %	© 23.3	64	
1.1.2 Government	effectiveness*		24.1	116		5.1.2 F	emales employed w/advand	ced degrees, %	© 7.3	88	
1.2 Regulatory er	nvironment		20.4	134	\Diamond	5.1.3 Y	outh demographic dividend	d, %	52.9	29	•
1.2.1 Regulatory qu	uality*		19.6	133	\Diamond	5.1.4	SERD performed by busines	ss, % GDP	n/a	n/a	
1.2.2 Rule of law*			21.2	136	0 0	5.1.5 G	ERD financed by business,	, %	n/a	n/a	
1.3 Business envi	ironment		54.3	[51]		5.2 In	novation linkages		11.1	127	
1.3.1 Policy stabilit	y for doing business [†]		5 4.3	57	•	5.2.1 P	ublic research-industry co	-publications, %	0.3	135	0 ♦
1.3.2 Entrepreneur	ship policies and culture [†]		n/a	n/a		5.2.2 \	Jniversity–industry R&D co	llaboration [†]	Q 22.5	106	
🙏 Human capita	al and research		22.4	0.0		5.2.3 เ	University industry & interna	ational engagement, top 5*	n/a	n/a	
	ii aliu researcii					5.2.4 9	State of cluster developmer	nt [†]	Q 21.2	124	
2.1 Education			46.3			5.2.5 F	Patent families/bn PPP\$ GD	P	0	100	0 \$
	on education, % GDP		5.4	25	•	5.3 Kr	owledge absorption		16.4	129	
	funding/pupil, secondary, % GDF	P/cap	•	n/a		5.3.1 lr	ntellectual property paymer	nts, % total trade	0.003	129	\Diamond
2.1.3 School life ex			11.6	100		5.3.2 H	ligh-tech imports, % total t	trade	7.2	86	
	n reading, maths and science			n/a		5.3.3 1	CT services imports, % tota	al trade	0.3	128	
2.1.5 Pupil-teache			n/a	n/a		5.3.4 F	DI net inflows, % GDP		1.2	105	
2.2 Tertiary educ				94		5.3.5 F	Research talent, % in busine	esses	n/a	n/a	
2.2.1 Tertiary enro			35.6	87		♂ Kn	owledge and technology o	outputs	17.5	81	
	science and engineering, %		© 22	69			owledge creation		23.1		
2.2.3 Tertiary inbo			0.8	92			atents by origin/bn PPP\$ G	DD	© 0.4		
	I development (R&D)		0.4	112			CT patents by inventor orig		0.02		
2.3.1 Researchers,			n/a	n/a				-	© 3.4	1	
	diture on R&D, % GDP		0.09	104			Itility models by origin/bn P			123	
	orate R&D investors, top 3, mn US	SD	0	44	0 ♦		cientific and technical artic Sitable documents H-index	cies/bii PPP\$ GDP	1.3	133	
2.3.4 QS university	y ranking, top 3*		0	80	0 0		nowledge impact		23.5		
⇔ Infrastructure			33	99			abor productivity growth, 9	1/2	4.7	3	
3.1 Information a	nd communication technologie	es (ICTs)	46.6	116			Jnicorn valuation, % GDP	, 0	0	53	0 0
3.1.1 ICT access*			59.6	109			Software spending, % GDP			108	
3.1.2 ICT use*			n/a	n/a			High-tech manufacturing		4.3		
3.1.3 Government	s online service*		33.5	118			nowledge diffusion		6	128	
3.2 General infra	structure		17.9	118			ntellectual property receipt	s % total trade	0.000008		
3.2.1 Electricity ou	itput, GWh/mn pop.		3 2,159.8	78			Production and export comp		26.1		
3.2.2 Logistics per	formance*		18.2	90			ligh-tech exports, % total t	•		84	
3.2.3 Gross capita	I formation, % GDP		20.4	101			CT services exports, % total			129	
3.3 Ecological su	stainability		34.4	32			SO 9001 quality/bn PPP\$ G				0 \$
3.3.1 GDP/unit of e	energy use		10.8	69			• • • • • • • • • • • • • • • • • • • •				
3.3.2 Low-carbon	energy use, %		67.1	5	•	⊕ Cre	eative outputs		7.2	124	
3.3.3 ISO 14001 er	nvironment/bn PPP\$ GDP		0.04	139	$\circ \diamond$	7.1 Int	angible assets		2.2	132	\Diamond
ևև Market sophis	tication		25.9	110		7.1.1 ln	tangible asset intensity, top	p 15, %	n/a	n/a	
			14.6			7.1.2 T	rademarks by origin/bn PPF	P\$ GDP	1 3.6	106	
4.1 Credit						7.1.3 G	lobal brand value, top 5,00	0, % GDP	0	81	0 \$
	tartups and scaleups†			n/a		7.1.4 lr	dustrial designs by origin/b	on PPP\$ GDP	• 0	130	
	edit to private sector, % GDP		12.4			7.2 Cr	eative goods and services	s	0.9	[126	3]
	nicrofinance institutions, % GDP		© 2.6	18		7.2.1 C	ultural and creative service	es exports, % total trade	0.05	104	
4.2 Investment	-li-stics 0/ ODD			[102	.]	7.2.2 N	lational feature films/mn po	pp. 15–69	n/a	n/a	
4.2.1 Market capit		DDD¢ CDD		n/a		7.2.3 E	ntertainment and media m	arket/th pop. 15–69	n/a	n/a	
	tal (VC) received, deal count/bn	FPPA GUP	0.05			7.2.4 0	reative goods exports, % t	otal trade	0.07	104	
	/C deal count, % global VC		0.002			7.3 Or	line creativity		23.4	82	
	, deal count/bn PPP\$ GDP			n/a		7.3.1 T	op-level domains (TLDs)/th	pop. 15–69	0.3	119	
	co-participation/bn PPP\$ GDP			n/a		7.3.2 0	itHub commits/mn pop. 15	-69	0.7	122	
1	ification and market scale		61.5			7.3.3 N	Mobile app creation/bn PPP	\$ GDP	69.1	51	•
	rate, weighted avg., %			72	•						
	dustry diversification		65.5								
4.3.3 Domestic ma	arket scale, bn PPP\$		56.4	115							



Data Availability

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



Tajikistan has missing data for seventeen indicators and outdated data for fifteen indicators.

Missing data for Tajikistan

Code	Indicator name	Economy year	Model year	Source
1.3.2	Entrepreneurship policies and culture [†]	n/a	2024	Global Entrepreneurship Monitor
2.1.2	Government funding/pupil, secondary, % GDP/cap	n/a	2021	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	2023	UNESCO Institute for Statistics
2.3.1	Researchers, FTE/mn pop.	n/a	2023	UNESCO Institute for Statistics; Eurostat; OECD; RICYT
3.1.2	ICT use*	n/a	2023	World Intellectual Property Organization; based on International Telecommunication Union (ITU)
4.1.1	Finance for startups and scaleups†	n/a	2024	Global Entrepreneurship Monitor
4.2.1	Market capitalization, % GDP	n/a	2022	World Federation of Exchanges; World Bank
4.2.4	VC investors, deal count/bn PPP\$ GDP	n/a	2024	PitchBook Data, Inc.; International Monetary Fund
4.2.5	VC investor co-participation/bn PPP\$ GDP	n/a	2024	PitchBook Data, Inc.; International Monetary Fund
5.1.4	GERD performed by business, % GDP	n/a	2023	UNESCO Institute for Statistics; Eurostat; OECD; RICYT
5.1.5	GERD financed by business, %	n/a	2022	UNESCO Institute for Statistics; Eurostat; OECD; RICYT
5.2.3	University industry & international engagement, top 5*	n/a	2025	Times Higher Education, World University Rankings 2025
5.3.5	Research talent, % in businesses	n/a	2023	UNESCO Institute for Statistics; Eurostat; OECD; RICYT
7.1.1	Intangible asset intensity, top 15, %	n/a	2024	Brand Finance
7.2.2	National feature films/mn pop. 15–69	n/a	2023	OMDIA; United Nations, World Population Prospects
7.2.3	Entertainment and media market/th pop. 15–69	n/a	2024	PwC, GEMO; United Nations, World Population Prospects; International Monetary Fund



Outdated data for Tajikistan

Code	Indicator name	Economy year	Model year	Source
1.3.1	Policy stability for doing business [†]	2021	2024	World Economic Forum, Executive Opinion Survey (EOS)
2.2.2	Graduates in science and engineering, %	2017	2022	UNESCO Institute for Statistics; Eurostat; OECD
2.2.3	Tertiary inbound mobility, %	2017	2023	UNESCO Institute for Statistics
2.3.2	Gross expenditure on R&D, % GDP	2020	2023	UNESCO Institute for Statistics; Eurostat; OECD; RICYT
3.2.1	Electricity output, GWh/mn pop.	2022	2023	International Energy Agency
4.1.3	Loans from microfinance institutions, % GDP	2022	2023	International Monetary Fund, Financial Access Survey (FAS)
4.3.1	Applied tariff rate, weighted avg., %	2022	2023	World Trade Organization
5.1.1	Knowledge-intensive employment, %	2016	2024	International Labour Organization
5.1.2	Females employed w/advanced degrees, %	2016	2024	International Labour Organization
5.2.2	University-industry R&D collaboration [†]	2021	2024	World Economic Forum, Executive Opinion Survey (EOS)
5.2.4	State of cluster development [†]	2021	2024	World Economic Forum, Executive Opinion Survey (EOS)
6.1.1	Patents by origin/bn PPP\$ GDP	2019	2023	World Intellectual Property Organization; International Monetary Fund
6.1.3	Utility models by origin/bn PPP\$ GDP	2022	2023	World Intellectual Property Organization; International Monetary Fund
7.1.2	Trademarks by origin/bn PPP\$ GDP	2020	2023	World Intellectual Property Organization; International Monetary Fund
7.1.4	Industrial designs by origin/bn PPP\$ GDP	2015	2023	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 140 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.