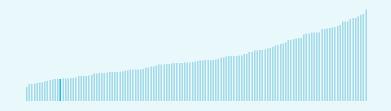
The Global Innovation Index (GII) ranks world economies according to their innovation capabilities.

Consisting of **roughly 80 indicators**, grouped into innovation inputs and outputs, the GII **aims to capture the multi-dimensional facets of innovation**.

Algeria ranking in the Global Innovation Index 2023

> Algeria ranks 119th among the 132 economies featured in the GII 2023.



Algeria ranks 33rd among the 37 lowermiddle-income group economies.



> Algeria ranks 18th among the 18 economies in Northern Africa and Western Asia.



> Algeria GII Ranking (2020-2023)

The table shows the rankings of Algeria 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 Algeria in the GII 2023 is between ranks 110 and 121.

	GII Position
2020	121st
2021	120th
2022	115th
2023	119th

Innovation Inputs	Innovation Outputs
111st	126th
109th	128th
110th	118th
118th	116th

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

This year Algeria ranks 118th in innovation inputs.
This position is lower than last year.

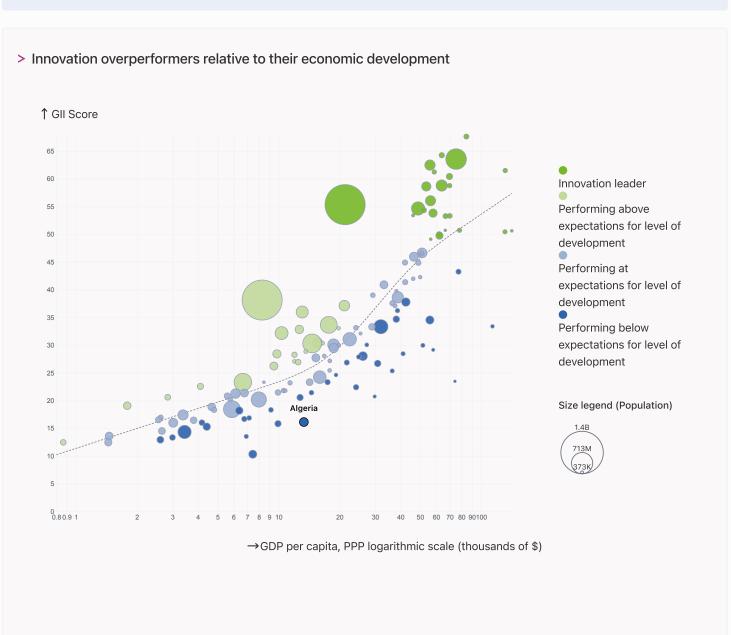
Algeria ranks 116th in innovation outputs. This position is higher than last year.

→ 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, Algeria's performance is below expectations for its level of development.

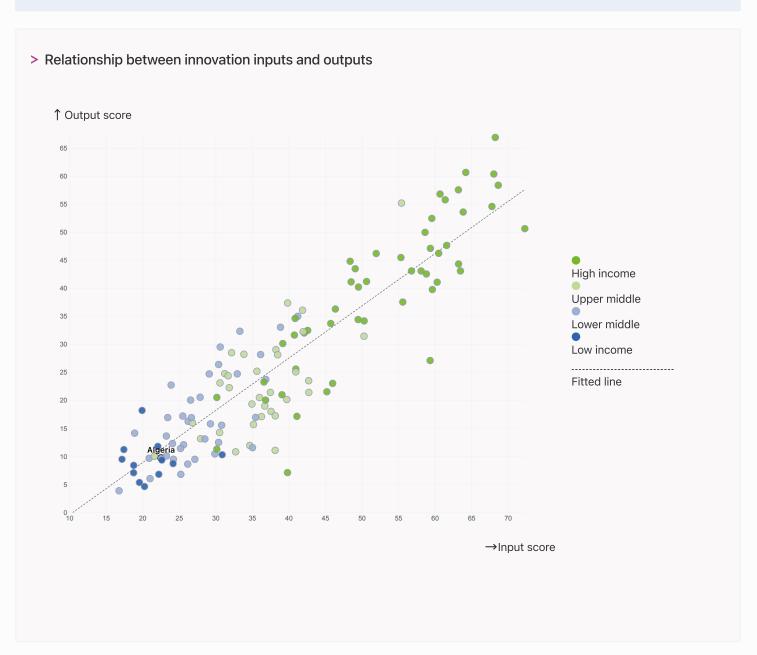


Effectively translating innovation investments into innovation outputs

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.



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



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

Highest rankings → 97th Institutions 102nd Infrastructure 107th Creative outputs 113rd Human capital and research • 119th Global Innovation Index 120th Business sophistication 125th Market sophistication ← Lowest rankings 128th Knowledge and technology outputs

> Highest rankings



Algeria ranks highest in Institutions (97th), Infrastructure (102nd), Creative outputs (107th) and Human capital and research (113rd).

> Lowest rankings



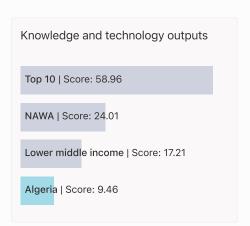
Algeria ranks lowest in Knowledge and technology outputs (128th), Market sophistication (125th) and Business sophistication (120th).

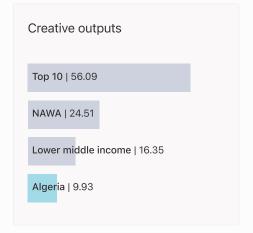
The full WIPO Intellectual Property Statistics profile for Algeria can be found on this link.

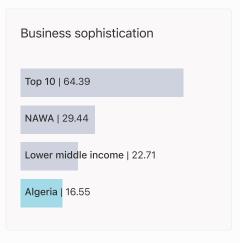
→ Benchmark of Algeria against other country groupings for each of the seven areas of the GII Index

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











Human capital and research			
Top 10 60.28			
NAWA 32.72			
Lower middle income 21.73			
Algeria 15.95			





→ Innovation strengths and weaknesses in Algeria

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



> Algeria's main innovation strengths are **Gross capital formation**, % **GDP** (rank 11), **Graduates in science and engineering**, % (rank 19) and **Domestic market scale**, **bn PPP\$** (rank 40).

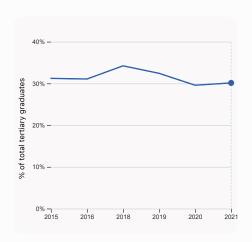
Strengths Weaknesses

Rank	Code	Indicator name	Rank	Code	Indicator name
11	3.2.3	Gross capital formation, % GDP	131	6.3.3	High-tech exports, % total trade
19	2.2.2	Graduates in science and engineering, %	130	1.2.1	Regulatory quality
40	4.3.3	Domestic market scale, bn PPP\$	128	6.2.3	Software spending, % GDP
48	7.1.4	Industrial designs by origin/bn PPP\$ GDP	101	4.2.3	VC recipients, deals/bn PPP\$ GDP
53	5.3.2	High-tech imports, % total trade	79	7.2.2	National feature films/mn pop. 15-69
56	2.3.1	Researchers, FTE/mn pop.	78	4.2.1	Market capitalization, % GDP
58	2.3.2	Gross expenditure on R&D, % GDP	77	2.1.4	PISA scales in reading, maths and science
64	5.2.2	State of cluster development	74	7.1.3	Global brand value, top 5,000
64	2.2.1	Tertiary enrolment, % gross	71	2.3.4	QS university ranking, top 3
71	1.2.3	Cost of redundancy dismissal	48	6.2.2	Unicorn valuation, % GDP
			40	2.3.3	Global corporate R&D investors, top 3, mn US\$

→ Algeria's innovation system

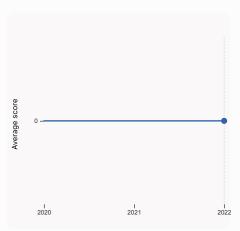
As far as practicable, the plots below present unscaled indicator data.

> Innovation inputs in Algeria



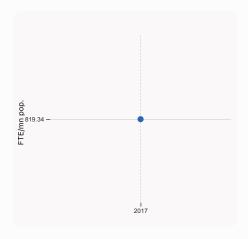
2.2.2 Graduates in science and engineering, %

was equal to 30.13% of total tertiary graduates in 2021, up by 0.55 percentage points from the year prior – and equivalent to an indicator rank of 19.



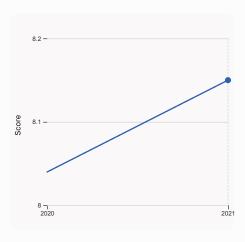
2.3.4 QS university ranking, top 3

was equal to an average score of 0 for the top 3 universities in 2022, equivalent to an indicator rank of 71.



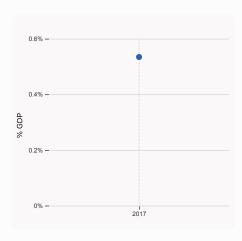
2.3.1 Researchers, FTE/mn pop.

was equal to 819.34 FTE/mn pop. in 2017, equivalent to an indicator rank of 56.



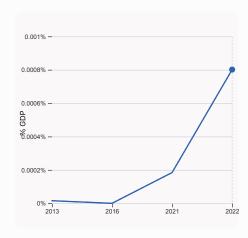
3.1.1 ICT access

was equal to a score of 8.15 in 2021, up by 1.37% from the year prior – and equivalent to an indicator rank of 86.



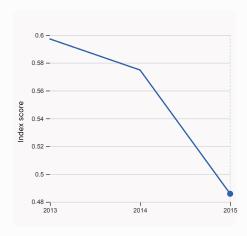
2.3.2 Gross expenditure on R&D, % GDP

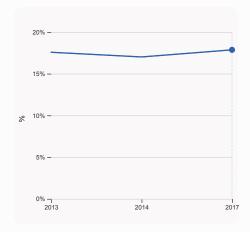
was equal to 0.534 % GDP in 2017, equivalent to an indicator rank of 58.



4.2.4 VC received, value, % GDP

was equal to 0.0008% GDP in 2022, up by 0.00062 percentage points from the year prior – and equivalent to an indicator rank of 63.





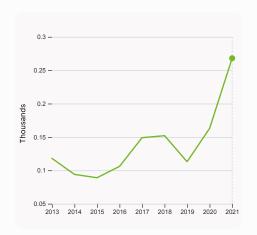
4.3.2 Domestic industry diversification

was equal to an index score of 0.486 in 2015, down by 15.48% from the year prior – and equivalent to an indicator rank of 106.

5.1.1 Knowledge-intensive employment, %

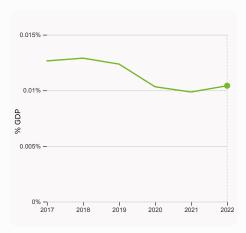
was equal to 17.86% in 2017, up by 0.85 percentage points from the year prior – and equivalent to an indicator rank of 81.

> Innovation outputs in Algeria



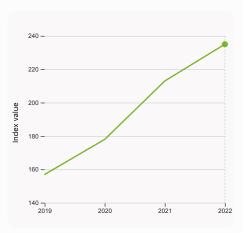
6.1.1 Patents by origin

was equal to 0.27 Thousands in 2021, up by 64.42% from the year prior – and equivalent to an indicator rank of 80.



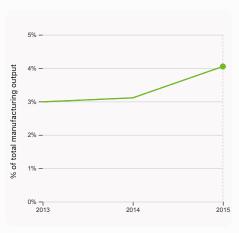
6.2.3 Software spending, % GDP

was equal to 0.01% GDP in 2022, up by 0.00056 percentage points from the year prior – and equivalent to an indicator rank of 128.



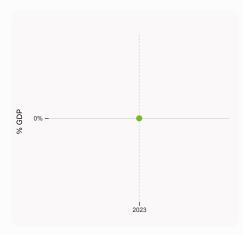
6.1.5 Citable documents H-index

was equal to an index value of 235 in 2022, up by 10.33% from the year prior – and equivalent to an indicator rank of 73.



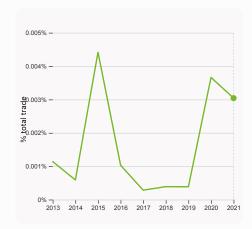
6.2.4 High-tech manufacturing, %

was equal to 4.05% of total manufacturing output in 2015, up by 0.94 percentage points from the year prior – and equivalent to an indicator rank of 104.



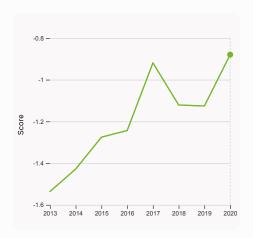
6.2.2 Unicorn valuation, % GDP

was equal to 0 % GDP in 2023 – and equivalent to an indicator rank of 48.



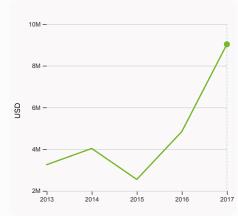
6.3.1 Intellectual property receipts, % total trade

was equal to 0.003% total trade in 2021, down by 0.00062 percentage points from the year prior – and equivalent to an indicator rank of 101.



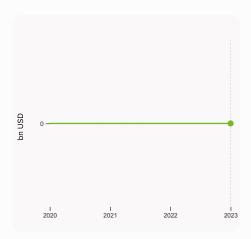
6.3.2 Production and export complexity

was equal to a score of -0.88 in 2020, up by 21.86% from the year prior – and equivalent to an indicator rank of 104.



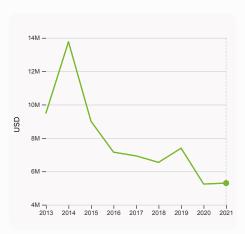
6.3.3 High-tech exports

was equal to 9,027,375 USD in 2017, up by 86.33% from the year prior – and equivalent to an indicator rank of 131.



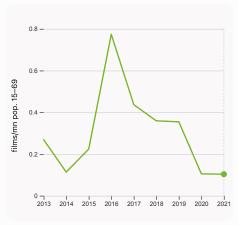
7.1.3 Global brand value, top 5,000

was equal to 0 bn USD in 2023 – and equivalent to an indicator rank of 74.



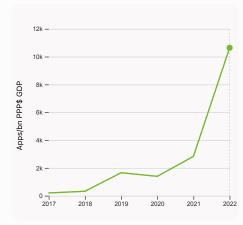
7.2.1 Cultural and creative services exports

was equal to 5,299,000 USD in 2021, up by 1.11% from the year prior – and equivalent to an indicator rank of 102.



7.2.2 National feature films/mn pop. 15-69

was equal to 0.103 films/mn pop. 15–69 in 2021, down by 1.39% from the year prior – and equivalent to an indicator rank of 79.



7.3.4 Mobile app creation/bn PPP\$ GDP

was equal to 10,641.32 Apps/bn PPP\$ GDP in 2022, up by 275.51% from the year prior – and equivalent to an indicator rank of 102.

Algeria

GII 2023 rank
119

Output rank	Input rank	Income L ower middle	_	Region NAWA	Population (mn) 44.9	GDP, PPP\$ (bn) 600.7	GDP per cap	
		Score	e / Valu	e Rank			Score / Value	Rank
★ Institutions			38.7	97	🖶 Business sophistic	ation	16.6	120 ♦
1.1 Institutional env	ironment		27.2	106	5.1 Knowledge workers		14.9	113
1.1.1 Operational stat	oility for businesses*		34.7	111	5.1.1 Knowledge-intensive	employment, %	17.9	81
1.1.2 Government eff	ectiveness*		19.6	106	5.1.2 Firms offering formal	training, %	n/a	n/a
1.2 Regulatory envi			47.6	106	5.1.3 GERD performed by b		• 0.0	76
1.2.1 Regulatory qual	ity*		11.7	130 🔾 🗘	5.1.4 GERD financed by but		6 .7	80
1.2.2 Rule of law*	anay diamiaaal		15.8	110 71 ●	5.1.5 Females employed w/ 5.2 Innovation linkages	advanced degrees, %	3 8.1	83 101
1.2.3 Cost of redunda 1.3 Business enviro	-		17.3 41.3	79	5.2.1 University-industry R	&D collaboration†	14.3 • 28.9	98
1.3.1 Policies for doin		0		82	5.2.2 State of cluster devel		41.5	64 ●
	ip policies and culture [†]	-	n/a	n/a	5.2.3 GERD financed by ab		• 0.0	95
						ic alliance deals/bn PPP\$ GDP	0.0	121
2 Human capita	al and research		16.0	113	5.2.5 Patent families/bn PP	P\$ GDP	0.0	93
2.1 Education			11.3	132	5.3 Knowledge absorptio	n	20.4	128 💠
2.1.1 Expenditure on	education, % GDP		n/a	n/a	5.3.1 Intellectual property p	payments, % total trade	0.3	79
2.1.2 Government fur	nding/pupil, secondary, % G	DP/cap	n/a	n/a	5.3.2 High-tech imports, %		8 .9	53 •
2.1.3 School life expe			n/a	n/a	5.3.3 ICT services imports,		0.4	115
	reading, maths and science	•	361.7	77 🔾	5.3.4 FDI net inflows, % GD		0.7	105
2.1.5 Pupil-teacher ra			n/a	n/a	5.3.5 Research talent, % in	businesses	• 0.5	81 ♦
2.2 Tertiary education			32.1 53.7	60 64 ●	Knowledge and ted	chnology outputs	9.5	128 ♦
2.2.1 Tertiary enrolm	cience and engineering, %		30.1	19 •	6.1 Knowledge creation		8.8	86
2.2.3 Tertiary inboun			0.6	98	6.1.1 Patents by origin/bn P	PP\$ GDP	0.5	80
2.3 Research and d			4.5	78	6.1.2 PCT patents by origin		0.0	81
2.3.1 Researchers, F		0	819.3	56 ●	6.1.3 Utility models by origi		n/a	n/a
2.3.2 Gross expendit	ure on R&D, % GDP		0.5	58 ●	6.1.4 Scientific and technic	al articles/bn PPP\$ GDP	n/a	n/a
2.3.3 Global corpora	te R&D investors, top 3, mn	US\$	0.0	40 ○ ◊	6.1.5 Citable documents H-	-index	10.7	73
2.3.4 QS university ra	anking, top 3*		0.0	71 ○ ◇	6.2 Knowledge impact		11.9	126 ♦
⇔ Infrastructure	٩		27.6	102	6.2.1 Labor productivity gro		-0.0	97
					6.2.2 Unicorn valuation, %		0.0	48 ○ ◊
	communication technolog	gies (ICTs)	47.7	102	6.2.3 Software spending, %		0.0	128 ○ ◇ 104 ◇
3.1.1 ICT access*			72.2	86	6.2.4 High-tech manufactu	ring, %	• 4.1 7.6	104
3.1.2 ICT use*	anlina aan isa*		66.7 30.8	78 121	6.3 Knowledge diffusion 6.3.1 Intellectual property r	eceints % total trade	0.0	101
3.1.3 Government's of 3.1.4 E-participation'			20.9	121	6.3.2 Production and expor		34.1	104
3.2 General infrastr			22.7	79	6.3.3 High-tech exports, %	• •	• 0.0	131 〇
3.2.1 Electricity outp		© 1.	805.2	87	6.3.4 ICT services exports,		0.2	121
3.2.2 Logistics perfo		,	18.2	89	6.3.5 ISO 9001 quality/bn P		1.0	106
3.2.3 Gross capital fo	ormation, % GDP		36.8	11 •	Creative outputs		9.9	107
3.3 Ecological susta	ainability		12.4	117	Creative outputs		9.9	107
3.3.1 GDP/unit of ene	ergy use		8.1	87	7.1 Intangible assets		13.5	102
3.3.2 Environmental			18.1	113	7.1.1 Intangible asset intens		n/a	n/a
3.3.3 ISO 14001 envi	ronment/bn PPP\$ GDP		0.3	103	7.1.2 Trademarks by origin/		20.8	90
ш Market sophis	stication		13.9	125 ♦	7.1.3 Global brand value, to		0.0	74 ○ ◇ 48 ●
4.4 Overlit			0.0	115	7.1.4 Industrial designs by a 7.2 Creative goods and se		1.6 0.2	128
4.1 Credit 4.1.1 Finance for star	tune and scaleuns†		9.6 n/a	115 n/a		services exports, % total trade	0.0	102
	t to private sector, % GDP		29.7	97	7.2.2 National feature films		0.1	79 🔾
	rofinance institutions, % GD)P	n/a	n/a	7.2.3 Entertainment and me		0.2	58
4.2 Investment			1.8	104	7.2.4 Creative goods expor	ts, % total trade	• 0.0	124
4.2.1 Market capitaliz	zation, % GDP		0.2	78 ○ ◊	7.3 Online creativity		12.5	106
4.2.2 Venture capital	(VC) investors, deals/bn PP	PP\$ GDP	n/a	n/a	7.3.1 Generic top-level dom	nains (TLDs)/th pop. 15-69	0.5	110
4.2.3 VC recipients,	deals/bn PPP\$ GDP		0.0	101 ○ ◊	7.3.2 Country-code TLDs/tl		0.1	116
4.2.4 VC received, va			0.0	63	7.3.3 GitHub commits/mn p		0.9	115
•	cation, and market scale		30.2	115	7.3.4 Mobile app creation/b	n PPP\$ GDP	48.5	102
4.3.1 Applied tariff ra		_	10.2	118				
4.3.2 Domestic indus	-	•		106 ♦				
4.3.3 Domestic mark	et scale, bil PPP\$		600.7	40 ●				

NOTES: • indicates a strength; O a weakness; • an income group strength; \diamond 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.

→ Data availability

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



> Algeria has missing data for eleven indicators and outdated data for nineteen indicators.

> Missing data for Algeria

Code	Indicator name	Economy Year	Model Year	Source
1.3.2	Entrepreneurship policies and culture	n/a	2022	Global Entrepreneurship Monitor
2.1.1	Expenditure on education, % GDP	n/a	2021	UNESCO Institute for Statistics
2.1.2	Government funding/pupil, secondary, % GDP/cap	n/a	2019	UNESCO Institute for Statistics
2.1.3	School life expectancy, years	n/a	2020	UNESCO Institute for Statistics
2.1.5	Pupil-teacher ratio, secondary	n/a	2020	UNESCO Institute for Statistics
4.1.1	Finance for startups and scaleups	n/a	2022	Global Entrepreneurship Monitor
4.1.3	Loans from microfinance institutions, % GDP	n/a	2021	International Monetary Fund, Financial Access Survey (FAS)
4.2.2	Venture capital (VC) investors, deals/bn PPP\$ GDP	n/a	2022	Refinitiv; International Monetary Fund
5.1.2	Firms offering formal training, %	n/a	2019	World Bank Enterprise Surveys
6.1.3	Utility models by origin/bn PPP\$ GDP	n/a	2021	World Intellectual Property Organization; International Monetary Fund
7.1.1	Intangible asset intensity, top 15, %	n/a	2022	Brand Finance

> Outdated data for Algeria

Code	Indicator name	Economy Year	Model Year	Source
1.3.1	Policies for doing business	2019	2022	World Economic Forum, Executive Opinion Survey (EOS)
2.1.4	PISA scales in reading, maths and science	2015	2018	OECD, PISA
2.3.1	Researchers, FTE/mn pop.	2017	2021	UNESCO Institute for Statistics; Eurostat; OECD; RICYT
2.3.2	Gross expenditure on R&D, % GDP	2017	2021	UNESCO Institute for Statistics; Eurostat; OECD; RICYT

Code	Indicator name	Economy Year	Model Year	Source
3.2.1	Electricity output, GWh/mn pop.	2020	2021	International Energy Agency
4.2.1	Market capitalization, % GDP	2018	2020	World Federation of Exchanges; World Bank
4.3.2	Domestic industry diversification	2015	2020	United Nations Industrial Development Organization
5.1.1	Knowledge-intensive employment, %	2017	2022	International Labour Organization
5.1.3	GERD performed by business, % GDP	2017	2021	UNESCO Institute for Statistics; Eurostat; OECD; RICYT
5.1.4	GERD financed by business, %	2017	2020	UNESCO Institute for Statistics; Eurostat; OECD; RICYT
5.1.5	Females employed w/advanced degrees, %	2017	2022	International Labour Organization
5.2.1	University-industry R&D collaboration	2019	2022	World Economic Forum, Executive Opinion Survey (EOS)
5.2.2	State of cluster development	2019	2022	World Economic Forum, Executive Opinion Survey (EOS)
5.2.3	GERD financed by abroad, % GDP	2017	2020	UNESCO Institute for Statistics; Eurostat; OECD; RICYT
5.3.2	High-tech imports, % total trade	2017	2021	United Nations Comtrade Database; World Trade Organization and United Nations Conference on Trade and Development
5.3.5	Research talent, % in businesses	2017	2021	UNESCO Institute for Statistics; Eurostat; OECD; RICYT
6.2.4	High-tech manufacturing, %	2015	2020	United Nations Industrial Development Organization
6.3.3	High-tech exports, % total trade	2017	2021	United Nations Comtrade Database; World Trade Organization and United Nations Conference on Trade and Development; Trade Data Monitor.
7.2.4	Creative goods exports, % total trade	2017	2021	United Nations Comtrade Database; World Trade Organization and United Nations Conference on Trade and Development

→ 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.