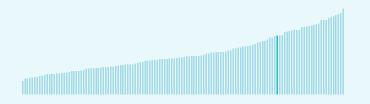


The Global Innovation Index (GII) ranks world economies according to their innovation capabilities.

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

Cyprus ranking in the Global Innovation Index 2023

Cyprus ranks 28th among the 132 economies featured in the GII 2023.



> Cyprus ranks 27th among the 50 highincome group economies.



 Cyprus ranks 2nd among the 18 economies in Northern Africa and Western Asia.



> Cyprus GII Ranking (2020-2023)

The table shows the rankings of Cyprus 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 Cyprus in the GII 2023 is between ranks 27 and 29.

	GII Position	Innovation Inputs	Innovation Outputs
2020	29th	30th	26th
2021	28th	31st	21st
2022	27th	29th	20th
2023	28th	33rd	21st

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

This year Cyprus ranks 33rd in innovation inputs. This position is lower than last year.

Cyprus ranks 21st in innovation outputs. This position is lower 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, Cyprus's performance is at expectations for its level of development.

> Innovation overperformers relative to their economic development ↑ GII Score Innovation leader Performing above expectations for level of development Performing at expectations for level of development Performing below expectations for level of 30 development Size legend (Population) 0 0.8 0.9 1 →GDP per capita, PPP logarithmic scale (thousands of \$)

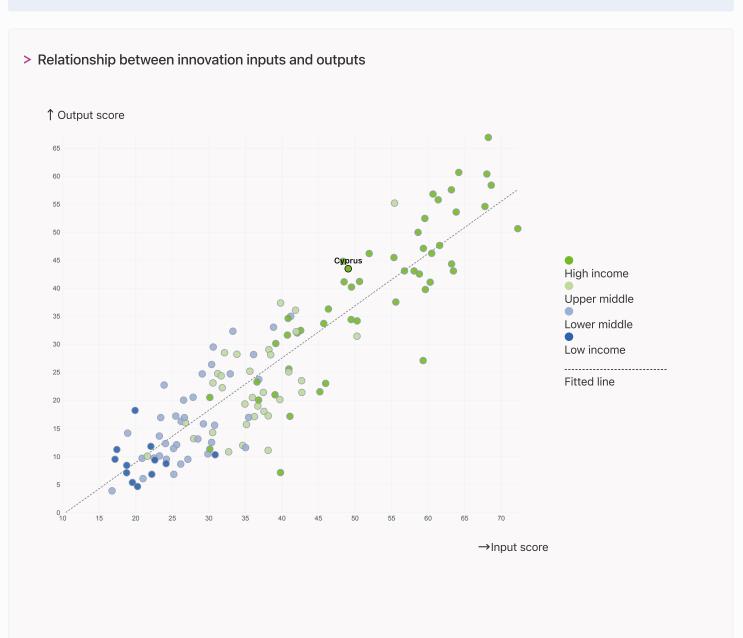


→ Effectively translating innovation investments into innovation outputs

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.



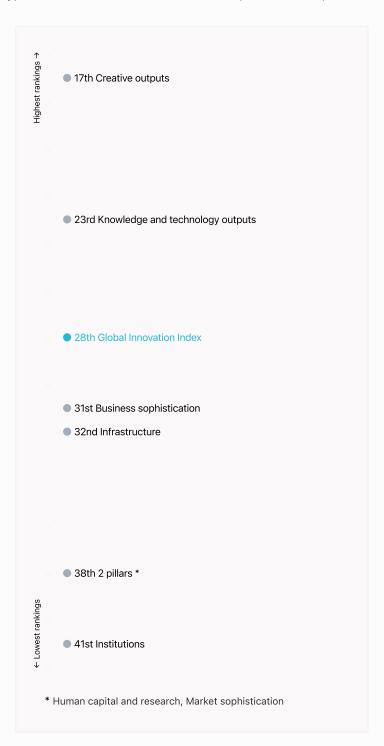
> Cyprus produces more innovation outputs relative to its level of innovation investments.





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



> Highest rankings



Cyprus ranks highest in Creative outputs (17th) and Knowledge and technology outputs (23rd).

> Lowest rankings



Cyprus ranks lowest in Institutions (41st), Human capital and research, Market sophistication (38th) and Infrastructure (32nd).

The full WIPO Intellectual Property

Statistics profile for Cyprus can be found on this link.



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

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

> High-Income economies

Cyprus performs below the high-income group average in Business sophistication, Market sophistication, Human capital and research, Infrastructure, Institutions.

Northern Africa And Western Asia

Cyprus performs above the regional average in all the pillars.

Knowledge and technology outputs

Top 10 | Score: 58.96

Cyprus | Score: 39.50

High income | Score: 38.62

NAWA | Score: 24.01

Creative outputs

Top 10 | 56.09

Cyprus | 47.46

High income | 40.27

NAWA | 24.51

Business sophistication

Top 10 | 64.39

High income | 46.38

Cyprus | 43.93

NAWA | 29.44

Market sophistication

Top 10 | 61.93

High income | 46.42

Cyprus | 44.55

NAWA | 36.12

Human capital and research

Top 10 | 60.28

High income | 46.30

Cyprus | 39.77

NAWA | 32.72

Infrastructure

Top 10 | 62.83

High income | 55.85

Cyprus | 55.52

NAWA | 41.60

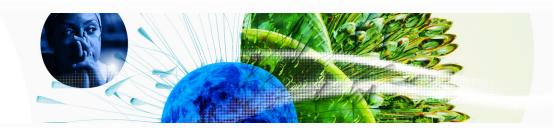
Institutions

Top 10 | 79.85

High income | 68.16

Cyprus | 61.77

NAWA | 53.39



→ Innovation strengths and weaknesses in Cyprus

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



> Cyprus's main innovation strengths are **Mobile app creation/bn PPP\$ GDP** (rank 1), **Cost of redundancy dismissal** (rank 1) and **ICT services exports**, % **total trade** (rank 1).

Strengths

Weaknesses

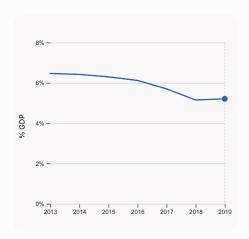
Rank	Code	Indicator name	Rank	Code	Indicator name
1	7.3.4	Mobile app creation/bn PPP\$ GDP	130	5.3.4	FDI net inflows, % GDP
1	1.2.3	Cost of redundancy dismissal	122	5.3.2	High-tech imports, % total trade
1	6.3.4	ICT services exports, % total trade	113	4.3.3	Domestic market scale, bn PPP\$
1	5.3.3	ICT services imports, % total trade	107	3.2.3	Gross capital formation, % GDP
4	2.1.2	Government funding/pupil, secondary, % GDP/cap	103	2.2.2	Graduates in science and engineering, %
4	6.1.4	Scientific and technical articles/bn PPP\$ GDP	74	7.1.3	Global brand value, top 5,000
4	2.2.3	Tertiary inbound mobility, %	71	2.3.4	QS university ranking, top 3
	2.2.0		64	4.2.1	Market capitalization, % GDP
4	4.2.2	Venture capital (VC) investors, deals/bn PPP\$ GDP	48	6.2.2	Unicorn valuation, % GDP
6	3.1.1	ICT access	40	2.3.3	Global corporate R&D investors, top 3, mn US\$
7	2.1.5	Pupil-teacher ratio, secondary			
8	7.3.1	Generic top-level domains (TLDs)/th pop. 15-69			



→ Cyprus's innovation system

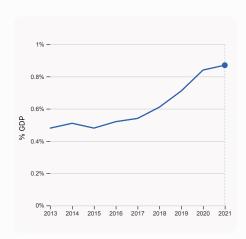
As far as practicable, the plots below present unscaled indicator data.

> Innovation inputs in Cyprus



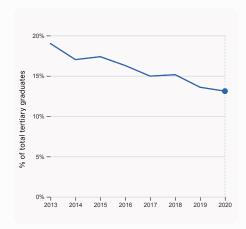
2.1.1 Expenditure on education, % GDP

was equal to 5.21% GDP in 2019, up by 0.06 percentage points from the year prior – and equivalent to an indicator rank of 31.



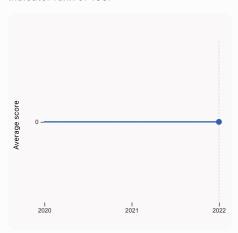
2.3.2 Gross expenditure on R&D, % GDP

was equal to 0.87% GDP in 2021, up by 0.03 percentage points from the year prior – and equivalent to an indicator rank of 45.



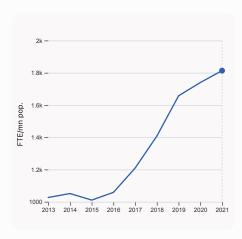
2.2.2 Graduates in science and engineering, %

was equal to 13.11% of total tertiary graduates in 2020, down by 0.48 percentage points from the year prior – and equivalent to an indicator rank of 103.



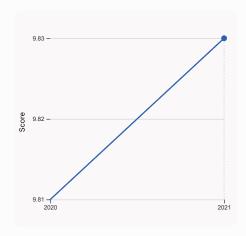
2.3.4 QS university ranking, top 3

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.

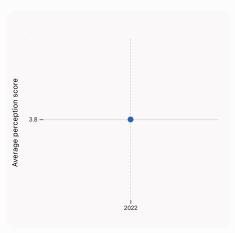
was equal to 1,813.6 FTE/mn pop. in 2021, up by 4.24% from the year prior – and equivalent to an indicator rank of 43.



3.1.1 ICT access

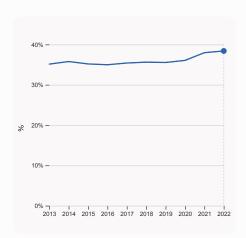
was equal to a score of 9.83 in 2021, up by 0.2% from the year prior – and equivalent to an indicator rank of 6.





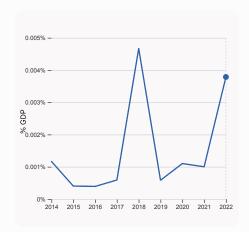


was equal to an average perception score of 3.8 in 2022, equivalent to an indicator rank of 62.



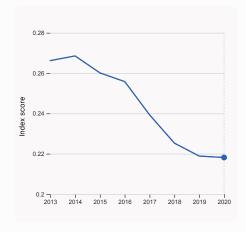
5.1.1 Knowledge-intensive employment, %

was equal to 38.4% in 2022, up by 0.43 percentage points from the year prior – and equivalent to an indicator rank of 33.



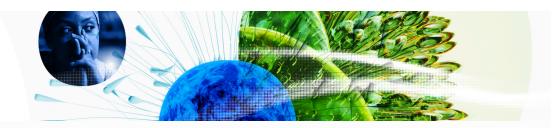
4.2.4 VC received, value, % GDP

was equal to 0.00379% GDP in 2022, up by 0.0028 percentage points from the year prior – and equivalent to an indicator rank of 33.

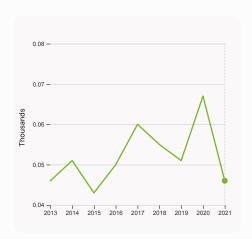


4.3.2 Domestic industry diversification

was equal to an index score of 0.218 in 2020, down by 0.32% from the year prior – and equivalent to an indicator rank of 72.

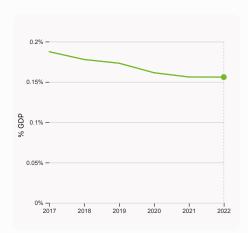


> Innovation outputs in Cyprus



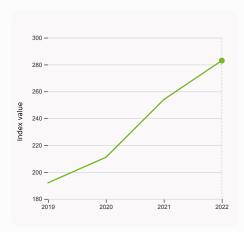
6.1.1 Patents by origin

was equal to 0.046 Thousands in 2021, down by 31.34% from the year prior – and equivalent to an indicator rank of 55.



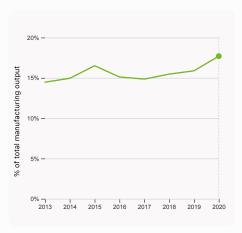
6.2.3 Software spending, % GDP

was equal to 0.156% GDP in 2022, down by 0.00013 percentage points from the year prior – and equivalent to an indicator rank of 81.



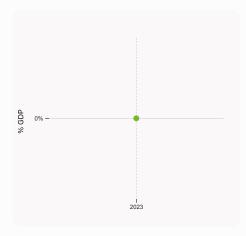
6.1.5 Citable documents H-index

was equal to an index value of 283 in 2022, up by 11.42% from the year prior – and equivalent to an indicator rank of 64.



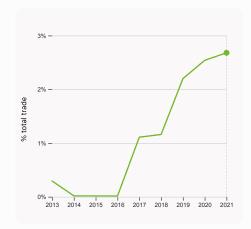
6.2.4 High-tech manufacturing, %

was equal to 17.7% of total manufacturing output in 2020, up by 1.82 percentage points from the year prior – and equivalent to an indicator rank of 68.



6.2.2 Unicorn valuation, % GDP

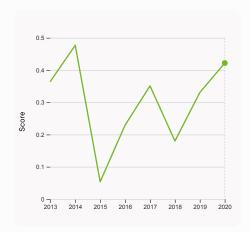
was equal to 0 % GDP in 2023 – and equivalent to an indicator rank of 48.



6.3.1 Intellectual property receipts, % total trade

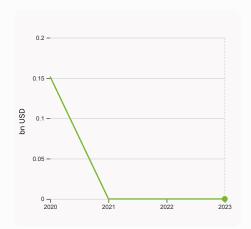
was equal to 2.68% total trade in 2021, up by 0.14 percentage points from the year prior – and equivalent to an indicator rank of 12.





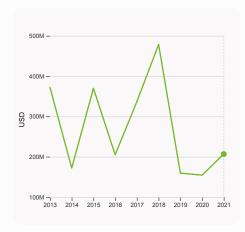
6.3.2 Production and export complexity

was equal to a score of 0.422 in 2020, up by 27.61% from the year prior – and equivalent to an indicator rank of 45.



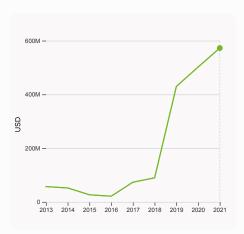
7.1.3 Global brand value, top 5,000

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



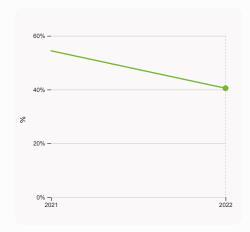
6.3.3 High-tech exports

was equal to 206,673,487 USD in 2021, up by 33.89% from the year prior – and equivalent to an indicator rank of 74.



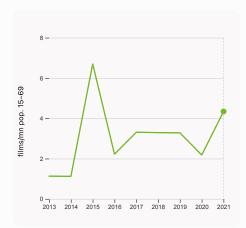
7.2.1 Cultural and creative services exports

was equal to 572,688,000 USD in 2021, up by 14.094% from the year prior – and equivalent to an indicator rank of 9.



7.1.1 Intangible asset intensity, top 15, %

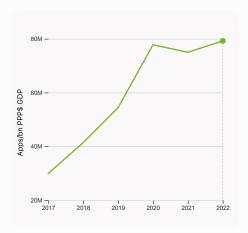
was equal to 40.5% in 2022, down by 13.93 percentage points from the year prior – and equivalent to an indicator rank of 61.



7.2.2 National feature films/mn pop. 15-69

was equal to 4.34 films/mn pop. 15–69 in 2021, up by 99.083% from the year prior – and equivalent to an indicator rank of 28.





7.3.4 Mobile app creation/bn PPP\$ GDP

was equal to 79,234,357.24 Apps/bn PPP\$ GDP in 2022, up by 5.65% from the year prior – and equivalent to an indicator rank of 1.



→ Cyprus's innovation top performers

> 7.1.1 Top 15 intangible-asset intensive companies in Cyprus

Rank	Firm	Intensity, %
1	HANGJI GLOBAL LTD	86.44
2	ADVANCED MERGER PARTNERS INC	23.41
3	ASBISC ENTERPRISES PLC	25.51

Source: Brand Finance (https://brandirectory.com/reports/gift-2022). Note: Brand Finance only provides within economy ranks.



GII 2023 rank

28

Cyprus

Output rank 21	Input rank 33	Income High	Regi NAV		Population (mn) 1.3	GDP, PPP\$ (bn) 44.8	GDP per cap 49,50 4	
			Score / Value	e Rank			Score / Value	Rank
			61.8	41	Business sophis	tication	43.9	31
1.1 Institutional envi	ronment		61.9	39	5.1 Knowledge worker	s	49.7	31
1.1.1 Operational stabi	ility for businesses*		66.7	36	5.1.1 Knowledge-intensi	ve employment, %	38.4	33
1.1.2 Government effe	ectiveness*		57.1	39	5.1.2 Firms offering forn	nal training, %	39.7	35
1.2 Regulatory envir	onment		80.7	27	5.1.3 GERD performed b	y business, % GDP	0.4	44
1.2.1 Regulatory qualit	ty*		64.4	35	5.1.4 GERD financed by		38.0	47
1.2.2 Rule of law*			58.4	39		l w/advanced degrees, %	26.7	13
1.2.3 Cost of redunda	,		8.0	1 •	5.2 Innovation linkage		36.4	32
1.3 Business environ			42.8	75	5.2.1 University-industry		39.4	75
1.3.1 Policies for doing	-		56.2	48	5.2.2 State of cluster de	•	47.3	51
1.3.2 Entrepreneursni	p policies and culture [†]		29.4	58	5.2.3 GERD financed by		0.2	22
2 Human capita	Il and research		39.8	38	5.2.5 Patent families/bn	tegic alliance deals/bn PPP\$ GDP	0.1 1.4	17 24
2.1 Education			62.5	22	5.3 Knowledge absorp		45.7	31
2.1 Education 2.1.1 Expenditure on e	advection % CDD		62.5 9 5.2	31		ty payments, % total trade	1.2	29
•	ding/pupil, secondary, % GD	ID/can	34.9	4 •	5.3.2 High-tech imports		4.3	122 ○ ◊
2.1.3 School life expen	5.1 1 7	г/сар	15.8	42	5.3.3 ICT services impo		13.9	1 •
•	eading, maths and science		438.0	45 ♦	5.3.4 FDI net inflows, %		-5.9	130 ○ ◊
2.1.5 Pupil-teacher ra	=:		7.7	7 •	5.3.5 Research talent, %		35.4	38
2.2 Tertiary education			48.3	12		A called a la construction	20.5	00
2.2.1 Tertiary enrolme	nt, % gross		92.9	10	Knowledge and	technology outputs	39.5	23
2.2.2 Graduates in sci	ience and engineering, %		13.1	103 ○ ◊	6.1 Knowledge creatio	n	36.0	26
2.2.3 Tertiary inbound	d mobility, %		27.2	4 •	6.1.1 Patents by origin/b	n PPP\$ GDP	1.1	55
2.3 Research and de	evelopment (R&D)		8.5	66 ♦	6.1.2 PCT patents by ori	igin/bn PPP\$ GDP	1.2	23
2.3.1 Researchers, FT	E/mn pop.		1,813.6	43	6.1.3 Utility models by o		n/a	n/a
2.3.2 Gross expenditu			0.9	45		nnical articles/bn PPP\$ GDP	n/a	n/a
•	e R&D investors, top 3, mn L	JS\$	0.0	40 ○ ◊	6.1.5 Citable documents		13.4	64
2.3.4 QS university ra	inking, top 3*		0.0	71 ○ ♢	6.2 Knowledge impact		23.0	89 ♦
‡ Infrastructure			55.5	32	6.2.1 Labor productivity	= :	1.4	51
		(IOT-)	00.0	00	6.2.2 Unicorn valuation,6.2.3 Software spending		0.0 0.2	48 ○ ◊ 81 ◊
3.1 Information and a 3.1.1 ICT access*	communication technologi	es (ICTS)	83.0 97.6	28 6 ●	6.2.4 High-tech manufa		17.7	68 ♦
3.1.2 ICT access*			84.3	42	6.3 Knowledge diffusion		59.4	5
3.1.3 Government's or	nline service*		75.6	46	=	ty receipts, % total trade	2.5	12
3.1.4 E-participation*			74.4	25	6.3.2 Production and ex		61.4	45
3.2 General infrastru	ucture		30.2	54 ♦	6.3.3 High-tech exports	, % total trade	0.9	74 ♦
3.2.1 Electricity outpu	it, GWh/mn pop.		5,856.2	34	6.3.4 ICT services expo	rts, % total trade	17.6	1 •
3.2.2 Logistics perfor	mance*		50.0	50 ♦	6.3.5 ISO 9001 quality/b	on PPP\$ GDP	19.1	14
3.2.3 Gross capital fo	rmation, % GDP		18.5	107 ○ ◊	Creative outputs	e	47.5	17
3.3 Ecological susta	inability		53.3	14	Greative output	3	47.5	- 17
3.3.1 GDP/unit of ener	rgy use		15.1	25	7.1 Intangible assets		52.9	18
3.3.2 Environmental p			66.3	22	7.1.1 Intangible asset int		40.5	61
3.3.3 ISO 14001 envir	onment/bn PPP\$ GDP		7.2	12	7.1.2 Trademarks by orig		110.6	8
Market sophis	tication		44.5	38	7.1.3 Global brand value		0.0	74 0 ♦
<u> </u>					7.1.4 Industrial designs		8.5	12
4.1 Credit			37.2	45	7.2 Creative goods and	ve services exports, % total trade	27.4 2.6	35 9
4.1.1 Finance for start			33.6 108.8	62 <> 24	7.2.2 National feature fil	' '	4.3	28
	to private sector, % GDP ofinance institutions, % GDF)	n/a	n/a		media market/th pop. 15-69	n/a	n/a
4.2 Investment	office institutions, 70 ODF		39.1	15	7.2.4 Creative goods ex		0.2	79
4.2.1 Market capitaliza	ation, % GDP		16.1	64 🔾	7.3 Online creativity		56.6	17
	(VC) investors, deals/bn PPP	\$ GDP	1.6	4 •	•	domains (TLDs)/th pop. 15-69	79.0	8 •
4.2.3 VC recipients, d			0.2	10	7.3.2 Country-code TLD	, ,, ,,	7.8	45
4.2.4 VC received, val	•		0.0	33	7.3.3 GitHub commits/m	nn pop. 15-69	39.6	26
	ation, and market scale		57.3	70	7.3.4 Mobile app creation	on/bn PPP\$ GDP	100.0	1 •
4.3.1 Applied tariff rat	te, weighted avg., %		1.5	20				
4.3.2 Domestic indust	try diversification		80.8	72				
4.3.3 Domestic marke	et scale, bn PPP\$		44.8	113 🔾				

NOTES: ● indicates a strength; O 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.



→ Data availability

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



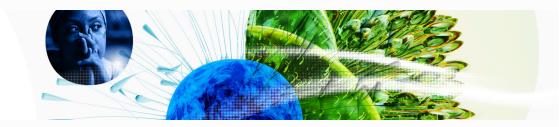
> Cyprus has missing data for three indicators and outdated data for one indicator.

> Missing data for Cyprus

Code	Indicator name	Economy Year	Model Year	Source
4.1.3	Loans from microfinance institutions, % GDP	n/a	2021	International Monetary Fund, Financial Access Survey (FAS)
6.1.3	Utility models by origin/bn PPP\$ GDP	n/a	2021	World Intellectual Property Organization; International Monetary Fund
7.2.3	Entertainment and media market/th pop. 15-69	n/a	2022	PwC, GEMO; United Nations, World Population Prospects; International Monetary Fund

> Outdated data for Cyprus

Code	Indicator name	Economy Year	Model Year	Source
2.1.1	Expenditure on education, % GDP	2019	2021	UNESCO Institute for Statistics



→ 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.