

2nd



## **CYPRUS**

# **28th** Cyprus ranks 28th 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 Cyprus 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 Cyprus in the GII 2021 is between ranks 25 and 28.

	GII	Innovation inputs	Innovation outputs
2021	28	31	21
2020	29	30	26
2019	28	28	23

## Rankings for Cyprus (2019–2021)

- Cyprus performs better in innovation outputs than innovation inputs in 2021.
- This year Cyprus ranks 31st in innovation inputs, lower than both 2020 and 2019.
- As for innovation outputs, Cyprus ranks 21st. This position is higher than both 2020 and 2019.

**27th** Cyprus ranks 27th among the 51 high-income group economies.

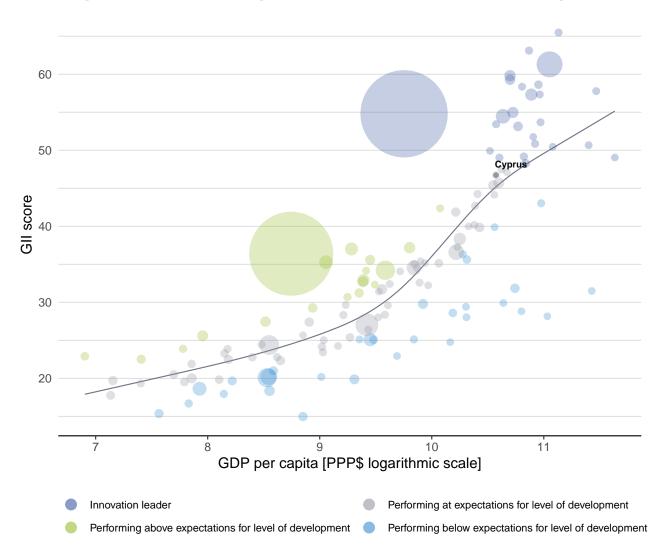
Cyprus ranks 2nd among the 19 economies in Northern Africa and Western Asia.



## **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.



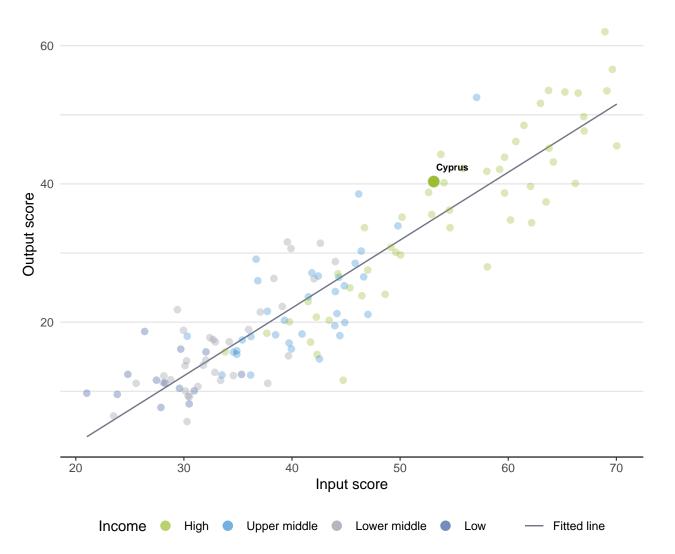
### The positive relationship between innovation and development



# 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.

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

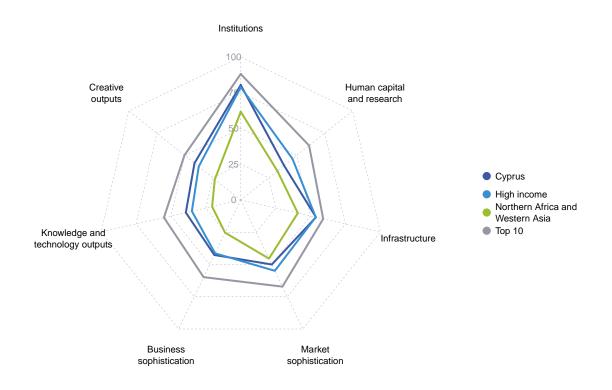


### Innovation input to output performance



## BENCHMARKING AGAINST OTHER HIGH-INCOME GROUP ECONOMIES AND NORTHERN AFRICA AND WESTERN ASIA

## The seven GII pillar scores for Cyprus



#### High-income group economies

Cyprus performs above the high-income group average in five pillars, namely: Institutions; Infrastructure; Business sophistication; Knowledge and technology outputs; and, Creative outputs.

#### Northern Africa and Western Asia

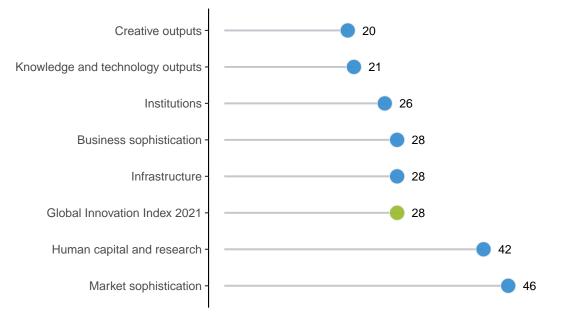
Cyprus performs above the regional average in all GII pillars.



## **OVERVIEW OF RANKINGS IN THE SEVEN GII 2021 AREAS**

Cyprus performs best in Creative outputs and its weakest performance is in Market sophistication.

## The seven GII pillar ranks for Cyprus



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 Cyprus in the GII 2021.

## Strengths and weaknesses for Cyprus

	Strengths	Weaknesses				
Code	Indicator name	Rank	Code	Indicator name	Rank	
1.2.3	Cost of redudancy dismissal	1	2.2.2	Graduates in science and engineering, %	98	
2.1.2	Government funding/pupil, secondary, % GDP/cap	3	2.3.3	Global corporate R&D investors, top 3, mn US\$	41	
2.2.3	Tertiary inbound mobility, %	5	2.3.4	QS university ranking, top 3	74	
5.3.3	ICT services imports, % total trade	1	3.2.3	Gross capital formation, % GDP	109	
5.3.4	FDI net inflows, % GDP	1	4.2.2	Market capitalization, % GDP	64	
6.1.4	Scientific and technical articles/bn PPP\$ GDP	8	4.3.3	Domestic market scale, bn PPP\$	117	
6.2.2	New businesses/th pop. 15–64	5	5.3.2	High-tech imports, % total trade	120	
6.3.4	ICT services exports, % total trade	1	6.2.1	Labor productivity growth, %	95	
7.1.3	Industrial designs by origin/bn PPP\$ GDP	7	7.1.2	Global brand value, top 5,000, % GDP	80	
7.3	Online creativity	8	7.1.4	ICTs and organizational model creation	93	
7.3.1	Generic top-level domains (TLDs)/th pop. 15–69	8				
7.3.4	Mobile app creation/bn PPP\$ GDP	1				

## Cyprus



-	21	Input rank 31	·	Region NAWA		1.2	•	) GDP, PPP\$ (bn) 34.6	GDP per capita, PPP\$ 39,079	GII 20	29
				Score/						Score/	
	_			Value			0			Value	
<u> </u>	Institu	tions		80.4	26			Business sophist	tication	42.6	28
1.1		l environment		74.7	33			Knowledge workers		42.2	40
1.1.1		and operational nent effectivenes		78.6 72.7	34 34			Knowledge-intensive		35.5 39.7	38 30
				84.2	34 22			Firms offering formal to GERD performed by b		0.3	30 50
<b>1.2</b> 1.2.1		t <b>ory environmer</b> pry quality*		70.0	32		5.1.4	GERD financed by bus	siness, %	34.8	55
	Rule of la			66.7	35		5.1.5	Females employed w/a	advanced degrees, %	25.5	13
1.2.3	Cost of r	redundancy dism	nissal	8.0	1 •			Innovation linkages	D - Web - web - web	39.9	25
1.3		s environment		82.3	26			University-industry R& State of cluster develo		43.9 49.1	59 54
1.3.1		starting a busine resolving insolve		92.0 72.5	45 29			GERD financed by abr	• •	0.2	28
1.3.2	Ease of i	resolving insolve	псу	12.5	29		5.2.4	Joint venture/strategic	alliance deals/bn PPP\$ GDP	0.2	14
••	Huma	n capital and	research	38.7	42		5.2.5	Patent families/bn PPF	P\$ GDP	2.0	19
	Humai	n capital and	research	- 30.7	42			Knowledge absorpti		45.6	20
2.1	Educati	on		65.9	14			Intellectual property pa High-tech imports, %	ayments, % total trade	1.5	26
2.1.1		ture on education		5.8	18			ICT services imports, %		3.6 11.1	120 ( 1 (
		nent funding/pupi ife expectancy, y	il, secondary, % GDP/cap	37.4 15.4	3● 47			FDI net inflows, % GD		44.2	1
2.1.4			haths and science	438.0	45	$\diamond$	5.3.5	Research talent, % in	businesses	33.5	39
		acher ratio, seco		Ø <b>8.1</b>	10	•	_				
2.2	Tertiary	education		42.8	34		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Knowledge and	technology outputs	39.4	21
		enrolment, % gro		81.3	19		6.1	Knowledge creation		32.2	30
		es in science and		15.1	98 〇	$\sim$		Patents by origin/bn P	PP\$ GDP	1.4	53
		inbound mobility		23.9	5 •	•		PCT patents by origin/	-	1.2	26
2.3 2 3 1		ch and developr hers, FTE/mn po		<b>7.4</b> 1,432.8	<b>66</b> 47	~		Utility models by origin		n/a	n/a
		xpenditure on R8		0.6	55				al articles/bn PPP\$ GDP	51.1	8
			vestors, top 3, mn US\$	0.0	<b>41</b> O	$(\bigcirc$		Citable documents H-	lindex	12.4	62
2.3.4	QS unive	ersity ranking, to	o 3*	0.0	<b>74</b> O			Knowledge impact Labor productivity gro	wth %	<b>38.6</b> –1.6	<b>27</b> 95 (
								New businesses/th po		17.6	5
<b>₽</b> ₽	Infrast	tructure		53.9	28			Software spending, %		0.2	75
3.1	Informat	ionandcommuni	cation technologies (ICTs)	88.3	14			ISO 9001 quality certif		21.4	9
3.1.1	ICT acce			87.9	11			High-tech manufacturi	•	19.2	64
	ICT use*			83.0	14			Knowledge diffusion Intellectual property re		<b>47.3</b> 0.9	<b>17</b> 22
		nent's online serv	/ice*	87.1	20			Production and export		48.1	22 50
	E-partici	•		95.2	14 			High-tech exports, %		0.9	72
3.2 3.21		l infrastructure ty output, GWh/n	nn non	<b>26.3</b> 5,842.0	<b>75</b> 36	$\diamond$	6.3.4	ICT services exports,	% total trade	16.3	1
		s performance*	ini pop.	51.3	44						
		apital formation,	% GDP		109 〇	$\diamond$	€,	Creative outputs		41.3	20
3.3	Ecologi	cal sustainabilit	ty	47.0	21		7.1	Intangible assets		45.4	27
0.01		t of energy use		13.9	32			Trademarks by origin/I	on PPP\$ GDP	89.6	13
		nental performar		64.8	31			Global brand value, to		0.0	80 (
3.3.2		o renvironmental o	certificates/bn PPP\$ GDP	6.2	16			Industrial designs by o		15.3	7
3.3.2	100 1100		•	50.0	40			ICTs and organizationa		47.3	93 (
3.3.2 3.3.3		t conhistiget		50.0	46			Creative goods and s Cultural and creative se	services rvices exports, % total trade	<b>14.4</b> 0.2	<b>65</b> 68
3.3.2 3.3.3		t sophisticat	ion					National feature films/		0.2 6.9	32
3.3.2 3.3.3	Marke Credit		ion	53.2	22						n/a
3.3.2 3.3.3 <b>111</b> 4.1 4.1.1	Marke Credit Ease of g	getting credit*		<b>53.2</b> 60.0	74			Entertainment and me		n/a	n/a
3.3.2 3.3.3 <b>4.1</b> 4.1.1 4.1.2	Marke Credit Ease of g Domesti	getting credit* ic credit to private	e sector, % GDP	<b>53.2</b> 60.0 112.3	74 20		7.2.4	Printing and other med	lia, % manufacturing	1.9	16
3.3.2 3.3.3 <b>4.1</b> 4.1.1 4.1.2 4.1.3	Marke Credit Ease of g Domesti Microfina	getting credit* ic credit to private ance gross loans	e sector, % GDP	<b>53.2</b> 60.0 112.3 n/a	74 20 n/a		7.2.4 7.2.5	Printing and other mea Creative goods export	lia, % manufacturing	1.9 0.2	16 75
3.3.2 3.3.3 4.1 4.1.1 4.1.2 4.1.3 4.1.3 4.2	Marke Credit Ease of g Domesti Microfina Investm	getting credit* ic credit to private ance gross loans tent	e sector, % GDP s, % GDP	<b>53.2</b> 60.0 112.3 n/a <b>33.0</b>	74 20 n/a <b>56</b>		7.2.4 7.2.5 <b>7.3</b>	Printing and other med Creative goods export <b>Online creativity</b>	lia, % manufacturing s, % total trade	1.9 0.2 <b>60.1</b>	16 75 <b>8</b> (
3.3.2 3.3.3 4.1 4.1.1 4.1.2 4.1.3 4.1.3 4.2.1	Marke Credit Ease of g Domesti Microfina Investm Ease of g	getting credit* ic credit to private ance gross loans	e sector, % GDP s, % GDP ity investors*	<b>53.2</b> 60.0 112.3 n/a	74 20 n/a		7.2.4 7.2.5 <b>7.3</b> 7.3.1	Printing and other med Creative goods export <b>Online creativity</b> Generic top-level dom	lia, % manufacturing s, % total trade ains (TLDs)/th pop. 15–69	1.9 0.2 <b>60.1</b> 72.3	16 75 <b>8</b> 8
3.3.2 3.3.3 4.1 4.1.1 4.1.2 4.1.3 4.2.1 4.2.1 4.2.2	Marke Credit Ease of g Domesti Microfina Investm Ease of g Market of	getting credit* ic credit to private ance gross loans tent protecting minori capitalization, %	e sector, % GDP s, % GDP ity investors*	<b>53.2</b> 60.0 112.3 n/a <b>33.0</b> 76.0	74 20 n/a <b>56</b> 21	)	7.2.4 7.2.5 <b>7.3</b> 7.3.1 7.3.2	Printing and other med Creative goods export <b>Online creativity</b>	lia, % manufacturing s, % total trade ains (TLDs)/th pop. 15–69 pop. 15–69	1.9 0.2 <b>60.1</b> 72.3 5.8	16 75 <b>8</b> (
3.3.2 3.3.3 4.1 4.1.1 4.1.2 4.1.3 4.2.1 4.2.1 4.2.2 4.2.3	Marke Credit Ease of g Domesti Microfina Investm Ease of g Market of Venture	getting credit* ic credit to private ance gross loans tent protecting minori capitalization, % capital investors;	e sector, % GDP s, % GDP ity investors* GDP	<b>53.2</b> 60.0 112.3 n/a <b>33.0</b> 76.0 14.2	74 20 n/a <b>56</b> 21 64 ◯	)	7.2.4 7.2.5 <b>7.3</b> 7.3.1 7.3.2 7.3.3	Printing and other mec Creative goods export <b>Online creativity</b> Generic top-level dom Country-code TLDs/th	tia, % manufacturing s, % total trade ains (TLDs)/th pop. 15–69 p. 0p. 15–69 p. 15–69	1.9 0.2 <b>60.1</b> 72.3	16 75 <b>8</b> 8 51 50
3.3.2 3.3.3 4.1 4.1.1 4.1.2 4.1.3 4.2.1 4.2.1 4.2.2 4.2.3 4.2.4 4.2.3 4.2.4 4.2.3	Marke Credit Ease of g Domesti Microfina Investm Ease of g Market o Venture Venture Trade, d	getting credit* ic credit to private ance gross loans nent protecting minori capitalization, % capital investors, capital recipients liversification, a	e sector, % GDP s, % GDP ity investors* GDP , deals/bn PPP\$ GDP s, deals/bn PPP\$ GDP and market scale	<b>53.2</b> 60.0 112.3 n/a <b>33.0</b> 76.0 14.2 0.1 0.1 <b>63.8</b>	74 20 n/a <b>56</b> 21 64 ○ 36 14 <b>79</b>	)	7.2.4 7.2.5 <b>7.3</b> 7.3.1 7.3.2 7.3.3	Printing and other mec Creative goods export <b>Online creativity</b> Generic top-level dom Country-code TLDs/th Wikipedia edits/mn po	tia, % manufacturing s, % total trade ains (TLDs)/th pop. 15–69 p. 0p. 15–69 p. 15–69	1.9 0.2 <b>60.1</b> 72.3 5.8 60.8	16 75 <b>8</b> 51 50
3.3.2 3.3.3 3.3.3 4.1 4.1.1 4.1.2 4.1.3 4.2.1 4.2.2 4.2.3 4.2.4 4.2.3 4.2.4 4.3.1	Marke Credit Ease of g Domesti Microfina Investm Ease of g Market of Venture of Venture of Venture of Venture of Venture of Venture of Venture of Applied	getting credit* ic credit to private ance gross loans ent protecting minori capitalization, % capital investors capital recipients	e sector, % GDP s, % GDP ity investors* GDP , deals/bn PPP\$ GDP s, deals/bn PPP\$ GDP s, deals/bn PPP\$ GDP and market scale red avg., %	<b>53.2</b> 60.0 112.3 n/a <b>33.0</b> 76.0 14.2 0.1 0.1	74 20 n/a <b>56</b> 21 64 ○ 36 14	)	7.2.4 7.2.5 <b>7.3</b> 7.3.1 7.3.2 7.3.3	Printing and other mec Creative goods export <b>Online creativity</b> Generic top-level dom Country-code TLDs/th Wikipedia edits/mn po	tia, % manufacturing s, % total trade ains (TLDs)/th pop. 15–69 p. 0p. 15–69 p. 15–69	1.9 0.2 <b>60.1</b> 72.3 5.8 60.8	16 75 <b>8</b> 51

NOTES:  $\bullet$  indicates a strength;  $\bigcirc$  a weakness;  $\bullet$  an income group strength;  $\diamondsuit$  an income group weakness; \* an index;  $^{\dagger}$  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 Cyprus.

## Missing data for Cyprus

Code	Indicator name	Economy year	Model year	Source
4.1.3	Microfinance gross loans, % GDP	n/a	2018	Microfinance Information Exchange
6.1.3	Utility models by origin/bn PPP\$ GDP	n/a	2019	World Intellectual Property Organization
7.2.3	Entertainment and media market/th pop. 15-69	) n/a	2020	PwC

## **Outdated data for Cyprus**

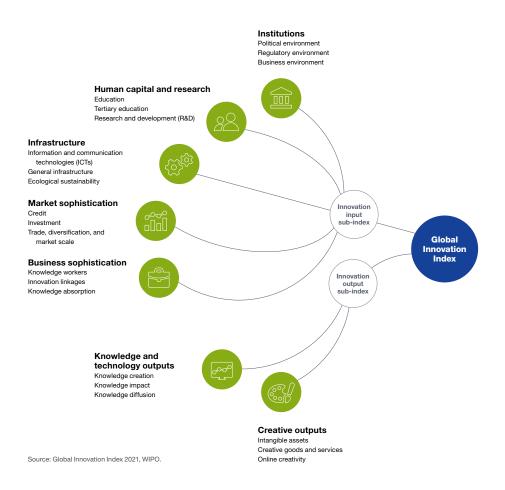
Code	Indicator name	Economy year	Model year	Source
2.1.5	Pupil-teacher ratio, secondary	2018	2019	UNESCO Institute for Statistics



## 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.