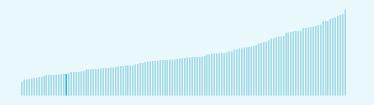


The Global Innovation Index (GII) ranks world economies according to their innovation capabilities.

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

### Togo ranking in the Global Innovation Index 2023

Togo ranks 114th among the 132 economies featured in the GII 2023.



Togo ranks 3rd among the 12 lowincome group economies.



> Togo ranks 14th among the 28 economies in Sub-Saharan Africa.



#### > Togo GII Ranking (2020-2023)

The table shows the rankings of Togo 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 Togo in the GII 2023 is between ranks 111 and 117.

	GII Position		
2020	125th		
2021	125th		
2022	122nd		
2023	114th		

Innovation Inputs	Innovation Outputs
121st	127th
110th	129th
115th	125th
120th	105th

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

This year Togo ranks 120th in innovation inputs. This position is lower than last year.

Togo ranks 105th 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, Togo'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 \$)

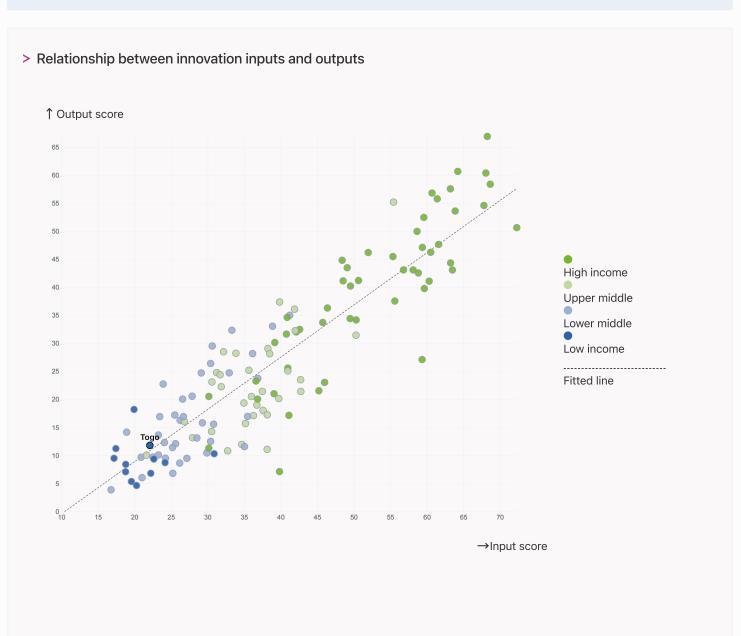


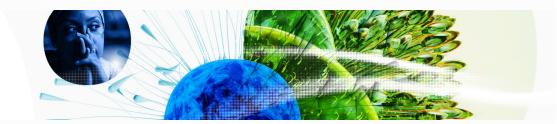
### → Effectively translating innovation investments into innovation outputs

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.



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





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

102nd Institutions Highest rankings → 105th Creative outputs 108th Knowledge and technology outputs • 111st 2 pillars \* 114th Global Innovation Index ■ 117th Infrastructure ← Lowest rankings 131st Business sophistication \* Human capital and research, Market sophistication

> Highest rankings



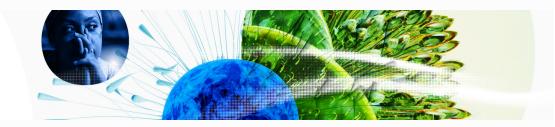
Togo ranks highest in Institutions (102nd), Creative outputs (105th), Knowledge and technology outputs (108th) and Human capital and research, Market sophistication (111st).

> Lowest rankings



Togo ranks lowest in Business sophistication (131st), Infrastructure (117th) and Human capital and research, Market sophistication (111st).

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



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

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

# > Low-Income economies

Togo performs above the low-income group average in Knowledge and technology outputs, Creative outputs, Market sophistication, Human capital and research, Infrastructure.

#### > Sub-Saharan Africa

Togo performs below the regional average in Business sophistication, Human capital and research, Infrastructure, Institutions.

Knowledge and technology outputs

Top 10 | Score: 58.96

Togo | Score: 12.41

Sub-Saharan Africa | Score: 12.16

Low income | Score: 11.03

Creative outputs

Top 10 | 56.09

Togo | 11.14

Sub-Saharan Africa | 10.36

Low income | 7.48

Business sophistication

Top 10 | 64.39

Sub-Saharan Africa | 19.85

Low income | 16.81

**Togo** | 14.37

Market sophistication

Top 10 | 61.93

Togo | 21.13

Sub-Saharan Africa | 20.00

Low income | 15.67

Human capital and research

Top 10 | 60.28

Sub-Saharan Africa | 17.80

Togo | 16.76

Low income | 15.55

Infrastructure

Top 10 | 62.83

Sub-Saharan Africa | 23.36

Togo | 20.77

Low income | 19.43

Institutions

**Top 10** | 79.85

Sub-Saharan Africa | 43.27

Low income | 38.42

Togo | 37.48



### → Innovation strengths and weaknesses in Togo

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



> Togo's main innovation strengths are Loans from microfinance institutions, % GDP (rank 6), Cultural and creative services exports, % total trade (rank 17) and Labor productivity growth, % (rank 39).

### Strengths Weaknesses

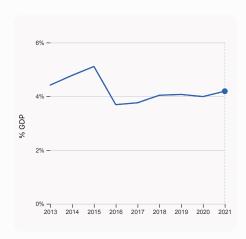
Rank	Code	Indicator name	Rank	Code	Indicator name
6	4.1.3	Loans from microfinance institutions, % GDP	129	4.3.3	Domestic market scale, bn PPP\$
17	7.2.1	Cultural and creative services exports, % total trade	122	3.2.1	Electricity output, GWh/mn pop.
39	6.2.1	Labor productivity growth, %	118	5.3.1	Intellectual property payments, % total trade
40	3.2.3	Gross capital formation, % GDP	101	6.1.2	PCT patents by origin/bn PPP\$ GDP
49	5.1.2	Firms offering formal training, %	95	5.2.5	Patent families/bn PPP\$ GDP
52	1.2.3	Cost of redundancy dismissal	75	6.1.3	Utility models by origin/bn PPP\$ GDP
66	2.1.1	Expenditure on education, % GDP	74	7.1.3	Global brand value, top 5,000
66	6.3.4	ICT services exports, % total trade	71	2.3.4	QS university ranking, top 3
78	5.3.4	FDI net inflows, % GDP	48	6.2.2	Unicorn valuation, % GDP
85	1.1.1	Operational stability for businesses	40	2.3.3	Global corporate R&D investors, top 3, mn US\$



### → Togo's innovation system

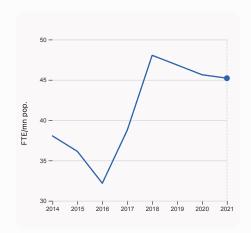
As far as practicable, the plots below present unscaled indicator data.

#### > Innovation inputs in Togo



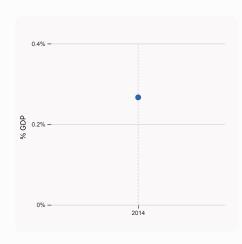
#### 2.1.1 Expenditure on education, % GDP

was equal to 4.19% GDP in 2021, up by 0.2 percentage points from the year prior – and equivalent to an indicator rank of 66.



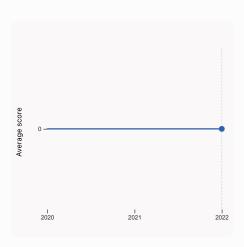
#### 2.3.1 Researchers, FTE/mn pop.

was equal to 45.21 FTE/mn pop. in 2021, down by 0.94% from the year prior – and equivalent to an indicator rank of 95.



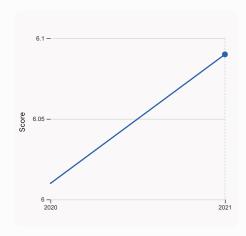
#### 2.3.2 Gross expenditure on R&D, % GDP

was equal to 0.267 % GDP in 2014, equivalent to an indicator rank of 82.



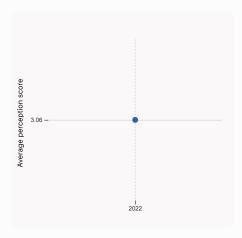
#### 2.3.4 QS university ranking, top 3

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



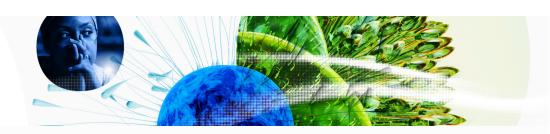
#### 3.1.1 ICT access

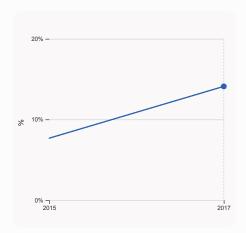
was equal to a score of 6.09 in 2021, up by 1.33% from the year prior – and equivalent to an indicator rank of 117.



#### 4.1.1 Finance for startups and scaleups

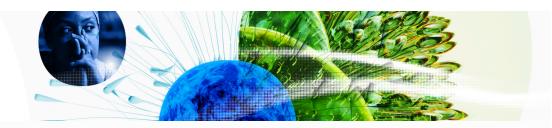
was equal to an average perception score of 3.06 in 2022, equivalent to an indicator rank of 80.



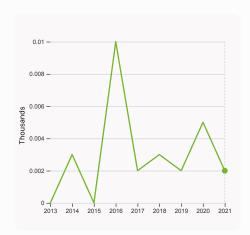


5.1.1 Knowledge-intensive employment, %

was equal to 14.1% in 2017, up by 6.42 percentage points from the year prior – and equivalent to an indicator rank of 91.

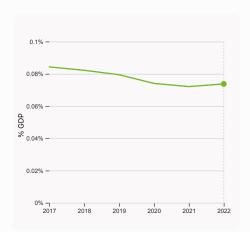


#### > Innovation outputs in Togo



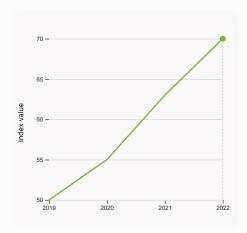
#### 6.1.1 Patents by origin

was equal to 0.002 Thousands in 2021, down by 60% from the year prior – and equivalent to an indicator rank of 111.



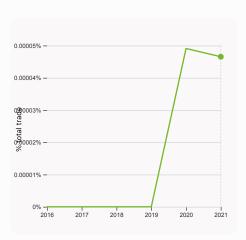
#### 6.2.3 Software spending, % GDP

was equal to 0.074% GDP in 2022, up by 0.0017 percentage points from the year prior – and equivalent to an indicator rank of 94.



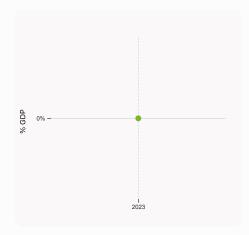
#### 6.1.5 Citable documents H-index

was equal to an index value of 70 in 2022, up by 11.11% from the year prior – and equivalent to an indicator rank of 127.



# 6.3.1 Intellectual property receipts, % total trade

was equal to 0% total trade in 2021, down by 0.0000026 percentage points from the year prior – and equivalent to an indicator rank of 113.



#### 6.2.2 Unicorn valuation, % GDP

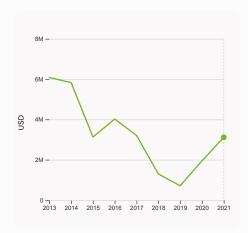
was equal to 0 % GDP in 2023 – and equivalent to an indicator rank of 48.



#### 6.3.2 Production and export complexity

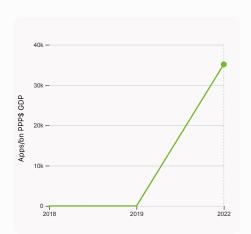
was equal to a score of -0.785 in 2020, up by 20.89% from the year prior – and equivalent to an indicator rank of 99.





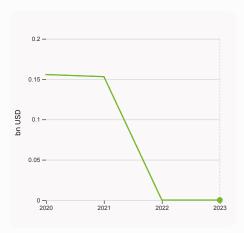
#### 6.3.3 High-tech exports

was equal to 3,115,138 USD in 2021, up by 60.18% from the year prior – and equivalent to an indicator rank of 115.



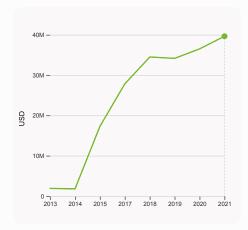
#### 7.3.4 Mobile app creation/bn PPP\$ GDP

was equal to 35,126.07 Apps/bn PPP\$ GDP in 2022, up by 31390312.52% from the year prior – and equivalent to an indicator rank of 88.



#### 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 39,651,000 USD in 2021, up by 8.59% from the year prior – and equivalent to an indicator rank of 17.

4.3.2 Domestic industry diversification

4.3.3 Domestic market scale, bn PPP\$



GII 2023 rank

99

91

118

95 ○ ◊

118 🔾 💠

78 **•** 

75 ○ ◊

90

115 0.1 1.7

66 •

93 74 ○ ◊

53

98

88

17

39 ●

48 ○ ◊

49

GDP per capita, PPP\$ 2,618.5

Score / Value Rank 14.4 131

20.1

n/a n/a

n/a n/a

1.2 131

n/a n/a

n/a n/a

0.0 n/a n/a

0.0

21.8 121

0.0

5.3 110 0.6 102

1.8

n/a n/a

3.6 119 0.1 111 101 ○ ◊

0.0

n/a n/a 1.5 127 22.5

1.8

0.0

0.1 94

n/a n/a

11.1 102

0.0 113

36.1

1.5 94

6.2 117

n/a n/a

19.7

0.2 101

17.4

1.7

n/a n/a

n/a n/a 117 0.0 14.8

0.6 104 119 0.1 0.7 57.6

0.9

**1**4.1

**3**3.7

# Togo

Output rank	<del></del>	ncome Reg		Population (mn)	GDP, PPP\$ (bn)
105	120			8.8	22.8
		Score / Valu	e Rank		
★ Institutions		37.5	102	Business sophis	tication
1.1 Institutional en	vironment	31.0	99	5.1 Knowledge workers	s
1.1.1 Operational sta	ability for businesses*	43.1	85 ●	5.1.1 Knowledge-intensi	ve employment, %
1.1.2 Government et	ffectiveness*	18.9	110	5.1.2 Firms offering form	nal training, %
1.2 Regulatory env	vironment	56.4	84	5.1.3 GERD performed b	y business, % GDP
1.2.1 Regulatory qua	ality*	25.7	109	5.1.4 GERD financed by	business, %
1.2.2 Rule of law*		23.3	97	5.1.5 Females employed	w/advanced degrees, %
1.2.3 Cost of redund	dancy dismissal	13.9	52 ●	5.2 Innovation linkages	s
1.3 Business envir	onment	25.0	111	5.2.1 University-industry	/ R&D collaboration <sup>†</sup>
1.3.1 Policies for do	ing business <sup>†</sup>	n/a	n/a	5.2.2 State of cluster de	velopment <sup>†</sup>
1.3.2 Entrepreneurs	ship policies and culture <sup>†</sup>	25.0	67	5.2.3 GERD financed by	abroad, % GDP
. Human capi	ital and research	16.8	111		egic alliance deals/bn PPP\$ GDP
	ital and recognom			5.2.5 Patent families/bn 5.3 Knowledge absorp	
2.1 Education 2.1.1 Expenditure or	n education, % GDP	<b>41.5</b> 4.2	94 66 ●		ty payments, % total trade
	unding/pupil, secondary, % GDP,		n/a	5.3.2 High-tech imports	
2.1.3 School life exp		• 12.7	87	5.3.3 ICT services impor	
	reading, maths and science	n/a	n/a	5.3.4 FDI net inflows, %	
2.1.5 Pupil-teacher	=:	25.9	111	5.3.5 Research talent, %	
2.2 Tertiary educa		7.5	116		
2.2.1 Tertiary enroln		15.4	105	✓ Knowledge and a  ✓ Knowl	technology outputs
	science and engineering, %	n/a	n/a	6.1 Knowledge creation	n
2.2.3 Tertiary inbou		n/a	n/a	6.1.1 Patents by origin/b	
	development (R&D)	1.2	98	6.1.2 PCT patents by origin/b	
2.3.1 Researchers, I		45.2	95	6.1.3 Utility models by o	• ,
	liture on R&D, % GDP	© 0.3	82		nical articles/bn PPP\$ GDP
	rate R&D investors, top 3, mn US		40 ○ ♦	6.1.5 Citable documents	,
2.3.4 QS university		0.0	71 0 ♦	6.2 Knowledge impact	
2.3.4 Q3 diliversity	Taliking, top 3	0.0	7100	6.2.1 Labor productivity	
nfrastructu	re	20.8	117	6.2.2 Unicorn valuation,	
3.1 Information an	d communication technologies	(ICTs) 36.0	113	6.2.3 Software spending	g, % GDP
3.1.1 ICT access*	<u> </u>	41.0	117	6.2.4 High-tech manufa	cturing, %
3.1.2 ICT use*		28.4	118	6.3 Knowledge diffusion	on
3.1.3 Government's	online service*	37.4	112	6.3.1 Intellectual propert	ty receipts, % total trade
3.1.4 E-participation		37.2	91	6.3.2 Production and ex	port complexity
3.2 General infras		14.3	108	6.3.3 High-tech exports	, % total trade
3.2.1 Electricity out		<b>8</b> 84.6	122 〇	6.3.4 ICT services expor	rts, % total trade
3.2.2 Logistics perf		18.2	89	6.3.5 ISO 9001 quality/b	
3.2.3 Gross capital		26.7	40 •		
3.3 Ecological sus		12.0	118	Creative outputs	
3.3.1 GDP/unit of er	=	4.7	117	7.1 Intangible assets	
3.3.2 Environmenta		25.6	97	7.1.1 Intangible asset into	ensity ton 15 %
	vironment/bn PPP\$ GDP	0.4	90	7.1.2 Trademarks by orig	
	·			7.1.3 Global brand value	
Маrket soph	istication	21.1	111	7.1.4 Industrial designs b	oy origin/bn PPP\$ GDP
4.1 Credit		27.6	71	7.2 Creative goods and	
	artups and scaleups†	17.8	80		ve services exports, % total trade
	dit to private sector, % GDP	26.6	105	7.2.2 National feature fil	
	icrofinance institutions, % GDP	4.8	6 ●		media market/th pop. 15-69
4.2 Investment		n/a	n/a	7.2.4 Creative goods exp	oorts, % total trade
4.2.1 Market capital		n/a	n/a	7.3 Online creativity	
	al (VC) investors, deals/bn PPP\$	GDP n/a	n/a	·	Iomains (TLDs)/th pop. 15-69
4.2.3 VC recipients,	, deals/bn PPP\$ GDP	n/a	n/a	7.3.2 Country-code TLD	
4.2.4 VC received, v	value, % GDP	n/a	n/a	7.3.3 GitHub commits/m	
4.3 Trade, diversif	fication, and market scale	14.7	128 ♦	7.3.4 Mobile app creatio	n/bn PPP\$ GDP
4.3.1 Applied tariff	rate, weighted avg., %	11.0	122		
400D					

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.

n/a n/a

22.8 129 〇



### → Data availability

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



> Togo has missing data for twenty indicators and outdated data for seven indicators.

### > Missing data for Togo

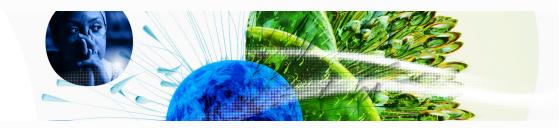
Code	Indicator name	Economy Year	Model Year	Source
1.3.1	Policies for doing business	n/a	2022	World Economic Forum, Executive Opinion Survey (EOS)
2.1.2	Government funding/pupil, secondary, % GDP/cap	n/a	2019	UNESCO Institute for Statistics
2.1.4	PISA scales in reading, maths and science	n/a	2018	OECD, PISA
2.2.2	Graduates in science and engineering, %	n/a	2020	UNESCO Institute for Statistics; Eurostat; OECD
2.2.3	Tertiary inbound mobility, %	n/a	2020	UNESCO Institute for Statistics
4.2.1	Market capitalization, % GDP	n/a	2020	World Federation of Exchanges; World Bank
4.2.2	Venture capital (VC) investors, deals/bn PPP\$ GDP	n/a	2022	Refinitiv; International Monetary Fund
4.2.3	VC recipients, deals/bn PPP\$ GDP	n/a	2022	Refinitiv; International Monetary Fund
4.2.4	VC received, value, % GDP	n/a	2022	Refinitiv; International Monetary Fund
4.3.2	Domestic industry diversification	n/a	2020	United Nations Industrial Development Organization
5.1.3	GERD performed by business, % GDP	n/a	2021	UNESCO Institute for Statistics; Eurostat; OECD; RICYT
5.1.4	GERD financed by business, %	n/a	2020	UNESCO Institute for Statistics; Eurostat; OECD; RICYT
5.2.1	University-industry R&D collaboration	n/a	2022	World Economic Forum, Executive Opinion Survey (EOS)
5.2.2	State of cluster development	n/a	2022	World Economic Forum, Executive Opinion Survey (EOS)
5.2.4	Joint venture/strategic alliance deals/bn PPP\$ GDP	n/a	2022	Refinitiv; International Monetary Fund
5.3.5	Research talent, % in businesses	n/a	2021	UNESCO Institute for Statistics; Eurostat; OECD; RICYT
6.2.4	High-tech manufacturing, %	n/a	2020	United Nations Industrial Development



Code	Indicator name	Economy Year	Model Year	Source
				Organization
7.1.1	Intangible asset intensity, top 15, %	n/a	2022	Brand Finance
7.2.2	National feature films/mn pop. 15-69	n/a	2021	OMDIA; United Nations, World Population Prospects
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 Togo

Code	Indicator name	Economy Year	Model Year	Source
2.1.3	School life expectancy, years	2017	2020	UNESCO Institute for Statistics
2.3.2	Gross expenditure on R&D, % GDP	2014	2021	UNESCO Institute for Statistics; Eurostat; OECD; RICYT
3.2.1	Electricity output, GWh/mn pop.	2020	2021	International Energy Agency
5.1.1	Knowledge-intensive employment, %	2017	2022	International Labour Organization
5.1.2	Firms offering formal training, %	2016	2019	World Bank Enterprise Surveys
5.1.5	Females employed w/advanced degrees, %	2017	2022	International Labour Organization
5.2.3	GERD financed by abroad, % GDP	2014	2020	UNESCO Institute for Statistics; Eurostat; OECD; RICYT



### → 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.