



## **GEORGIA**

63rd

Georgia ranks 63rd 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 Georgia 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 Georgia in the GII 2021 is between ranks 61 and 69.

#### Rankings for Georgia (2019–2021)

	GII	Innovation inputs	Innovation outputs
2021	63	49	74
2020	63	54	71
2019	48	44	60

- Georgia performs better in innovation inputs than innovation outputs in 2021.
- This year Georgia ranks 49th in innovation inputs, higher than last year but lower than 2019.
- As for innovation outputs, Georgia ranks 74th. This position is lower than both 2020 and 2019.

16th

Georgia ranks 16th among the 34 upper middle-income group economies.

5th

Georgia ranks 5th among the 19 economies in Northern Africa and Western Asia.

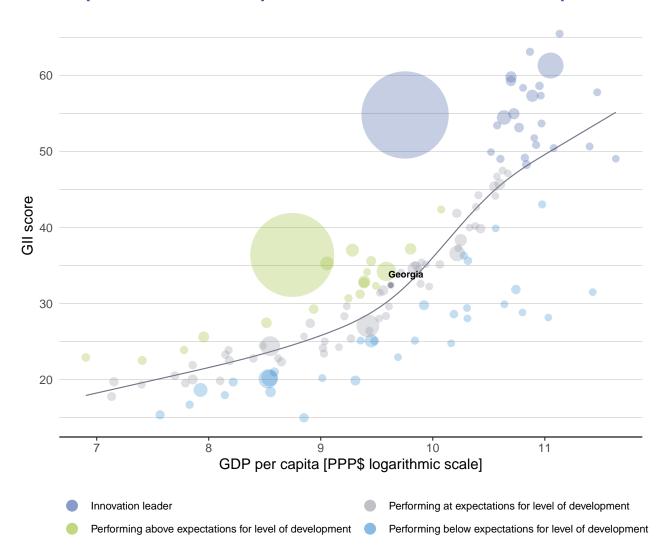


#### **EXPECTED VS. OBSERVED INNOVATION PERFORMANCE**

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, Georgia's performance is at expectations for its level of development.

#### The positive relationship between innovation and development



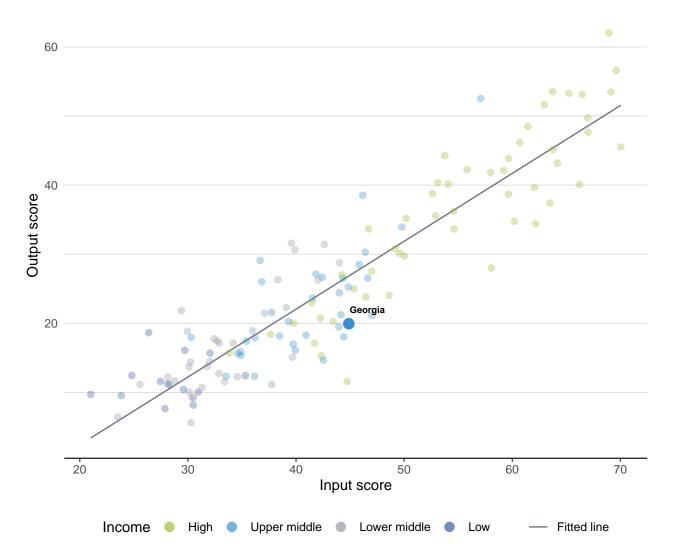




The chart below shows the relationship between innovation inputs and innovation outputs. Economies above the line are effectively translating costly innovation investments into more and higher-quality outputs.

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

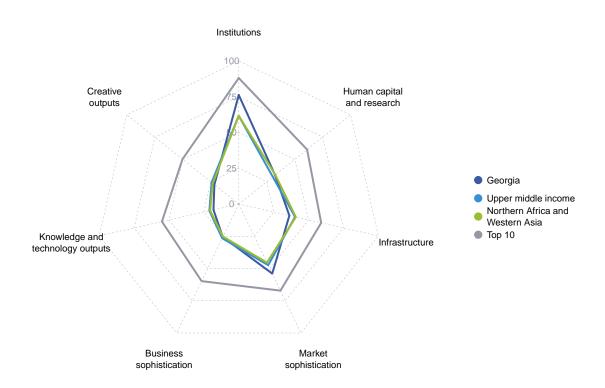
### Innovation input to output performance





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

#### The seven GII pillar scores for Georgia



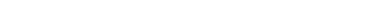
#### Upper middle-income group economies

Georgia performs above the upper middle-income group average in three pillars, namely: Institutions; Human capital and research; and, Market sophistication.

#### Northern Africa and Western Asia

Georgia performs above the regional average in three pillars, namely: Institutions; Market sophistication; and, Business sophistication.

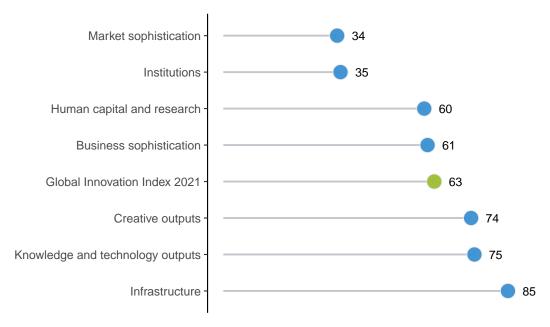




Georgia performs best in Market sophistication and its weakest performance is in Infrastructure.

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

## The seven GII pillar ranks for Georgia



Note: The highest possible ranking in each pillar is one.





The table below gives an overview of the strengths and weaknesses of Georgia in the GII 2021.

## Strengths and weaknesses for Georgia

Strengths			Weaknesses			
Code	Indicator name	Rank	Code	Indicator name	Rank	
1.2.3	Cost of redudancy dismissal	16	2.1.4	PISA scales in reading, maths and science	70	
1.3.1	Ease of starting a business	2	2.3.3	Global corporate R&D investors, top 3, mn US\$	41	
2.1.5	Pupil-teacher ratio, secondary	3	2.3.4	QS university ranking, top 3	74	
4.1.1	Ease of getting credit	14	3.2.2	Logistics performance	111	
4.2.1	Ease of protecting minority investors	7	3.3.3	ISO 14001 environmental certificates/bn PPP\$ GDP	102	
4.3.1	Applied tariff rate, weighted avg., %	5	5.1.4	GERD financed by business, %	89	
5.1.5	Females employed w/advanced degrees, %	23	6.2.5	High-tech manufacturing, %	90	
5.3.4	FDI net inflows, % GDP	9	6.3.1	Intellectual property receipts, % total trade	97	
6.2.1	Labor productivity growth, %	24	7.1.4	ICTs and organizational model creation	101	
6.2.2	New businesses/th pop. 15–64	11	7.2.5	Creative goods exports, % total trade	104	

#### 63

GII 2020 rank



Output rank Input rank

74 49 Upper middle	NAWA		4.0	56.1 15,142	-	63
	Score/ Value	Rank			Score/ Value	Rank
	76.2	35	• 😩	Business sophistication	25.6	61
1.1 Political environment	69.3	40	<b>♦</b> 5.1	Knowledge workers	35.7	56
1.1.1 Political and operational stability*	69.6	60	5.1.1	. , ,	33.6	43
1.1.2 Government effectiveness*	69.1		512	Firms offering formal training, % GERD performed by business, % GDP	32.0 n/a	46 n/a
1.2.1 Regulatory environment 1.2.1 Regulatory quality*	<b>81.3</b> 72.8			GERD financed by business, %	1.7	89 🔾
1.2.2 Rule of law*	54.9		5.1.5	Females employed w/advanced degrees, %	22.5	23 ● ⋅
I.2.3 Cost of redundancy dismissal	8.6	16 ●	5.2	Innovation linkages	20.2	68
I.3 Business environment	77.9	40		University-industry R&D collaboration†	40.4	73
.3.1 Ease of starting a business*	99.6	2 ●		State of cluster development and depth <sup>†</sup> GERD financed by abroad, % GDP	49.3 0.0	50 61
.3.2 Ease of resolving insolvency*	56.2	59		Joint venture/strategic alliance deals/bn PPP\$ GDP ②		32
				Patent families/bn PPP\$ GDP	0.0	67
Human capital and research	32.5	60	5.3	Knowledge absorption	20.9	88
2.1 Education	52.0	60	5.3.1	Intellectual property payments, % total trade	0.3	77
2.1.1 Expenditure on education, % GDP	3.5	85		High-tech imports, % total trade	6.2	94
2.1.2 Government funding/pupil, secondary, % GDP/ca		n/a		ICT services imports, % total trade FDI net inflows, % GDP	0.8 8.9	86 9 ●
2.1.3 School life expectancy, years	15.6	44		Research talent, % in businesses	n/a	n/a
2.1.4 PISA scales in reading, maths and science 2.1.5 Pupil-teacher ratio, secondary	386.7 7.2	70 ○ 3 ●		Tiodda of taloff, 78 in baoineaca	11/4	π,α
	39.6		مهدر	Knowledge and technology outputs	18.1	75
2.2 Tertiary education 2.2.1 Tertiary enrolment, % gross	63.9	<b>43</b> 43	<u> </u>	thowleage and teelinology outputs	10.1	15
2.2.2 Graduates in science and engineering, %	24.6	42	6.1	Knowledge creation	17.4	59
.2.3 Tertiary inbound mobility, %	8.1	29	<b>♦</b> 6.1.1	, ,	1.5	51
2.3 Research and development (R&D)	5.7	75		PCT patents by origin/bn PPP\$ GDP	0.1	62 18
2.3.1 Researchers, FTE/mn pop.	Ø1,463.8	46		Utility models by origin/bn PPP\$ GDP Scientific and technical articles/bn PPP\$ GDP	1.3 15.1	18 58
2.3.2 Gross expenditure on R&D, % GDP	Ø 0.3	83	6.1.5	Citable documents H-index	10.6	72
2.3.3 Global corporate R&D investors, top 3, mn US\$		41 0	۰ ۵	Knowledge impact	25.5	83
2.3.4 QS university ranking, top 3*	0.0	74 (		Labor productivity growth, %	2.2	24 •
with the formation of the second	00.0	0.5		New businesses/th pop. 15-64	10.4	11 •
<b>☆</b> Infrastructure	36.3	85		Software spending, % GDP	0.1	90
3.1 Information and communication technologies (ICT	(s) 64.0	72		ISO 9001 quality certificates/bn PPP\$ GDP High-tech manufacturing, %	3.1 9.8	74 90 O
3.1.1 ICT access*	70.4	59		•		
3.1.2 ICT use*	62.7	58	<b>6.3</b> 6.3.1	Knowledge diffusion Intellectual property receipts, % total trade	<b>11.4</b> 0.0	<b>88</b> 97 ()
3.1.3 Government's online service* 3.1.4 E-participation*	58.8 64.3	88 80		Production and export complexity	43.0	65
	23.5	90	6.3.3	High-tech exports, % total trade	0.8	79
3.2.1 Electricity output, GWh/mn pop.	3,256.2	<b>90</b> 62	6.3.4	ICT services exports, % total trade	1.1	80
3.2.2 Logistics performance*	18.4	111 0	<b>\</b>			
3.2.3 Gross capital formation, % GDP	25.4	42	€,	Creative outputs	21.8	74
3.3 Ecological sustainability	21.3	92		Intangible assets	27.3	77
3.3.1 GDP/unit of energy use	8.7	84	7.1.1	Trademarks by origin/bn PPP\$ GDP	51.0	45
.3.2 Environmental performance*	41.3			Global brand value, top 5,000, % GDP	8.3	63
.3.3 ISO 14001 environmental certificates/bn PPP\$ GE	)P 0.3	102 🔾		Industrial designs by origin/bn PPP\$ GDP	3.2	34
end Manhatanahiatian		0.4	7.1.4	ICTs and organizational model creation†	43.6	101 🔿
Market sophistication	53.9	34	7.2	Creative goods and services	11.3	<b>76</b>
.1 Credit	50.6	29	7.2.1 ♦ 72.2	Cultural and creative services exports, % total trade National feature films/mn pop. 15–69	0.1 6.7	80 34
.1.1 Ease of getting credit*	85.0	14 ●		Entertainment and media market/th pop. 15–69	n/a	n/a
.1.2 Domestic credit to private sector, % GDP	67.7	48		Printing and other media, % manufacturing	1.5	26
.1.3 Microfinance gross loans, % GDP	1.6	17	7.2.5	Creative goods exports, % total trade	0.1	104 🔾
.2 Investment	44.8	[24]	7.3	Online creativity	21.1	55
I.2.1 Ease of protecting minority investors* I.2.2 Market capitalization, % GDP	84.0	7 ●	7.0.1	Generic top-level domains (TLDs)/th pop. 15–69	1.7	84
.2.3 Venture capital investors, deals/bn PPP\$ GDP	n/a ② 0.0	n/a 50		Country-code TLDs/th pop. 15–69	4.5	56
2.2.4 Venture capital recipients, deals/bn PPP\$ GDP	n/a	n/a		Wikipedia edits/mn pop. 15–69 Mobile app creation/bn PPP\$ GDP	73.1 2.1	30 69
.3 Trade, diversification, and market scale	66.4	73	1.5.4	mobile app oreation/bit i i i i i dibi	۷.۱	03
.3.1 Applied tariff rate, weighted avg., %	Ø 0.7	5 ●				
1.3.2 Domestic industry diversification	78.4	82				
1.3.3 Domestic market scale, bn PPP\$	56.1	99				

Region

Income

Population (mn)

GDP, PPP\$ (bn)

GDP per capita, PPP\$

NOTES: • indicates a strength;  $\bigcirc$  a weakness; • an income group strength;  $\bigcirc$  an income group weakness; \* an index; † a survey question.  $\bigcirc$  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.





The following tables list data that are either missing or outdated for Georgia.

## Missing data for Georgia

Code	Indicator name	Economy year	Model year	Source
2.1.2	Government funding/pupil, secondary, % GDP/cap	n/a	2017	UNESCO Institute for Statistics
4.2.2	Market capitalization, % GDP	n/a	2019	World Federation of Exchanges
4.2.4	Venture capital recipients, deals/bn PPP\$ GDP	n/a	2020	Refinitiv Eikon
5.1.3	GERD performed by business, % GDP	n/a	2019	UNESCO Institute for Statistics; Eurostat; OECD - Main Science and Technology Indicators
5.3.5	Research talent, % in businesses	n/a	2019	UNESCO Institute for Statistics; Eurostat; OECD - Main Science and Technology Indicators
7.2.3	Entertainment and media market/th pop. 15-69	n/a	2020	PwC

## **Outdated data for Georgia**

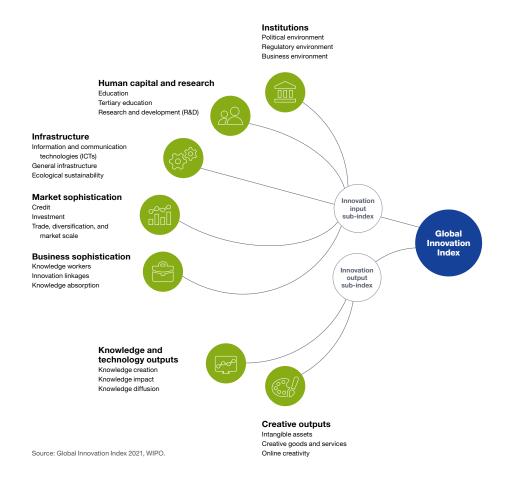
Code	Indicator name	Economy year	Model year	Source
2.3.1	Researchers, FTE/mn pop.	2018	2019	UNESCO Institute for Statistics; Eurostat; OECD - Main Science and Technology Indicators
2.3.2	Gross expenditure on R&D, % GDP	2018	2019	UNESCO Institute for Statistics; Eurostat; OECD - Main Science and Technology Indicators
4.2.3	Venture capital investors, deals/bn PPP\$ GDF	2019	2020	Refinitiv Eikon
4.3.1	Applied tariff rate, weighted avg., %	2016	2019	World Bank
5.2.4	Joint venture/strategic alliance deals/bn PPP\$ GDP	2019	2020	Refinitiv





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.