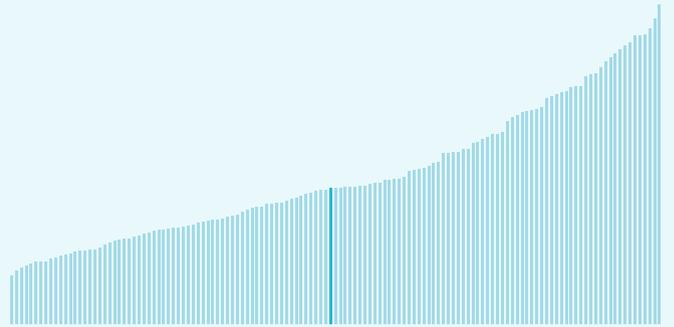


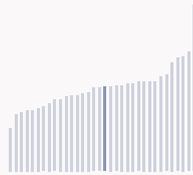
Republic of Moldova ranking in the Global Innovation Index 2024

Republic of Moldova ranks **68th** among the 133 economies featured in the GII 2024.

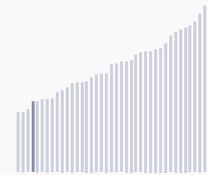
The Global Innovation Index (GII) ranks world economies according to their innovation capabilities. Consisting of roughly 80 indicators, grouped into innovation inputs and outputs, the GII aims to capture the multi-dimensional facets of innovation.



Republic of Moldova ranks **17th** among the 34 upper-middle-income group economies.



Republic of Moldova ranks **36th** among the 39 economies in Europe.



> Republic of Moldova GII Ranking (2020-2024)

The table shows the rankings of Republic of Moldova 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 Republic of Moldova in the GII 2024 is between ranks 56 and 69.

Year	GII Position	Innovation Inputs	Innovation Outputs
2020	59th	75th	48th
2021	64th	80th	54th
2022	56th	78th	46th
2023	60th	81st	50th
2024	68th	80th	57th

Republic of Moldova performs better in innovation outputs than innovation inputs in 2024.

This year Republic of Moldova ranks 80th in innovation inputs. This position is higher than last year.

Republic of Moldova ranks 57th in innovation outputs. This position is lower than last year.

Republic of Moldova has no clusters in the top 100 S&T clusters of the Global Innovation Index.

Global Innovation Index 2024



> Global Innovation Tracker

The Global Innovation Tracker 2024 shows what is the current state of innovation in Republic of Moldova, how rapidly is technology being embraced and what are the resulting societal impacts.



For Republic of Moldova, 1 indicator has improved in the short-term and 6 indicators have worsened.

Science and innovation investment

Scientific publications	R&D investments	Venture capital		International patent filings
		Deal numbers	Deal values	
0% 2022 - 2023	▼ -5.1% 2021 - 2022	n/a	n/a	▲ 50% 2022 - 2023
▲ 0.6% 2013 - 2023	▼ -1.3% 2012 - 2022	n/a	n/a	▲ 19.6% 2013 - 2023

Technology adoption

Safe sanitation	Connectivity		Robots	Electric vehicles
	Fixed broadband	5G		
n/a	▼ -1.8% 2021 - 2022	n/a	▼ -20% 2021 - 2022	n/a
n/a	▲ 7.4% 2012 - 2022		▼ -2.2% 2012 - 2022	n/a
n/a	24.4 per 100 inhabitants in 2022	n/a		n/a

Socioeconomic impact

Labor productivity	Life expectancy	Temperature change
▼ -2.1% 2022 - 2023	▼ -0.3% 2021 - 2022	▲ 2.9°C 2023
▲ 0.9% 2013 - 2023	▼ -0.1% 2012 - 2022	n/a
30,700 USD in 2023	68.6 years in 2022	

Notes: Not all indicators of the Global Innovation Tracker are used to calculate the Global Innovation Index. Long-term annual growth refers to the compound annual growth rate (CAGR) over the indicated period. For each variable, a one-year growth rate is set for the short run, and ten-year CAGR is set for the long run; time windows might differ when gaps exist in data availability. The end period corresponds to the most recent available observation, which may differ among countries. Temperature change is an exception: it indicates the change in degrees Celsius with respect to the average temperature in the country from 1951–1980. Figures are rounded.



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, Republic of Moldova is performing above expectations for its level of development.

> Innovation overperformers relative to their economic development





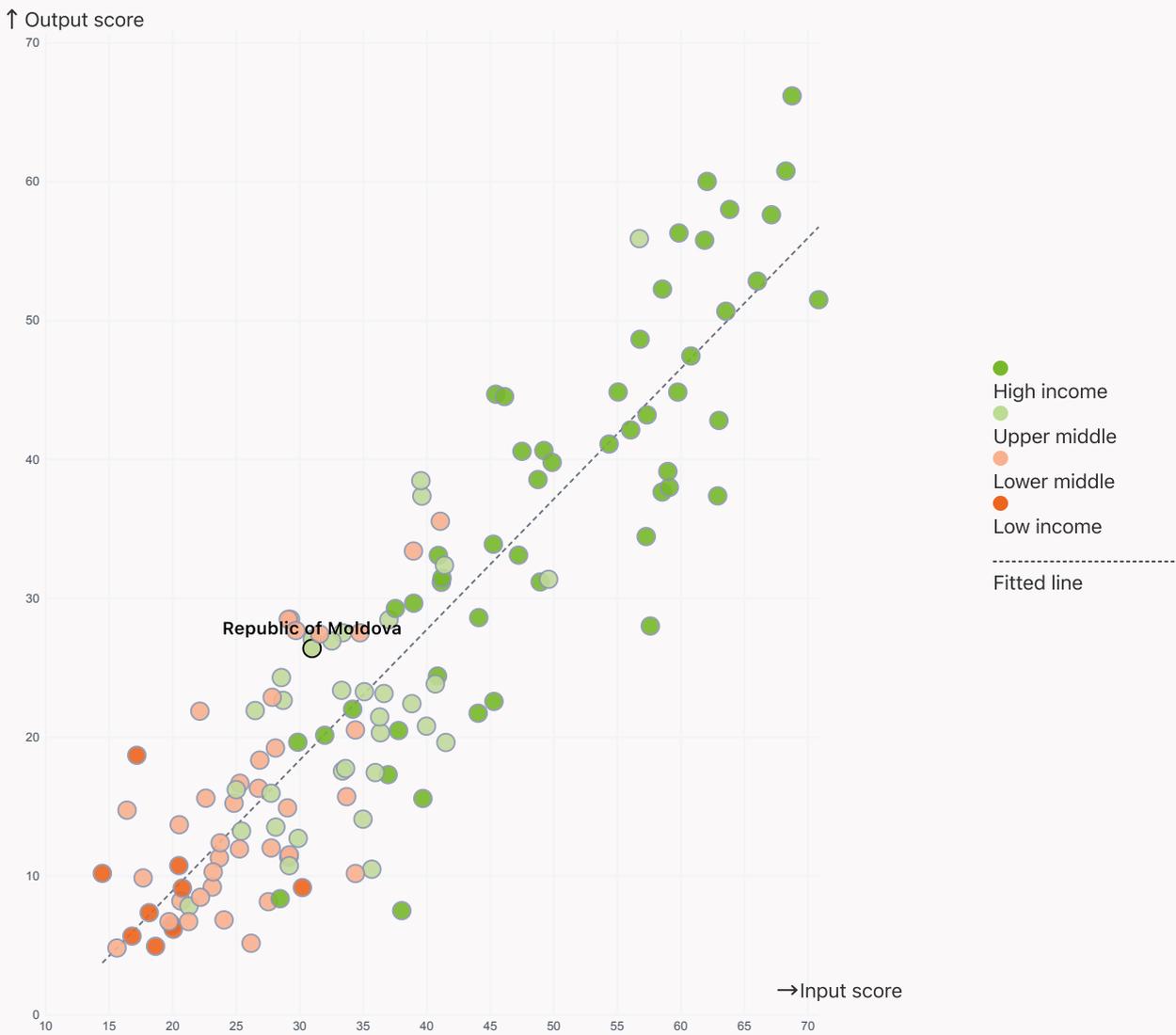
Effectively translating innovation investments into innovation outputs

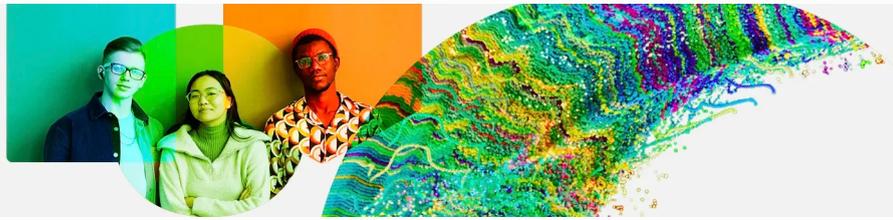
The chart below shows the relationship between innovation inputs and innovation outputs. Economies above the line are effectively translating costly innovation investments into more and higher-quality outputs.



Republic of Moldova produces more innovation outputs relative to its level of innovation investments.

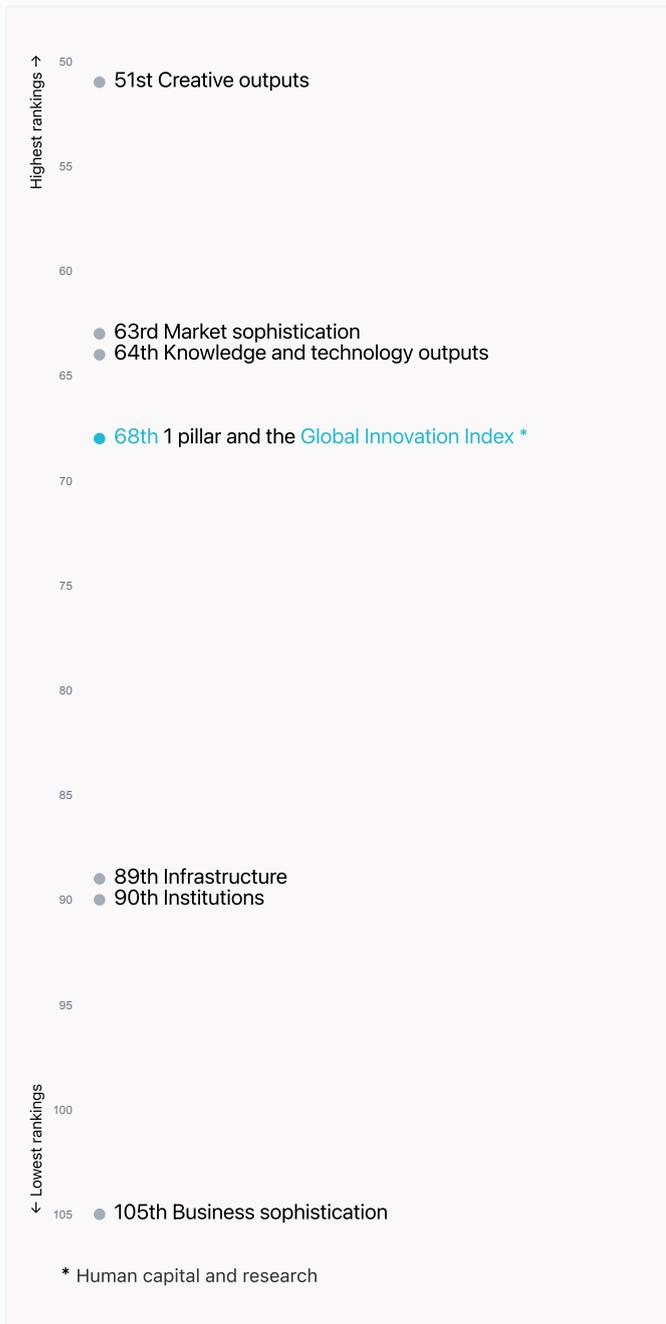
> Relationship between innovation inputs and outputs





Overview of Republic of Moldova's rankings in the seven areas of the GII in 2024

The chart shows the ranking for each of the seven areas that the GII comprises. The strongest areas for Republic of Moldova are those that rank above the GII (shown in blue) and the weakest are those that rank below.



Highest rankings



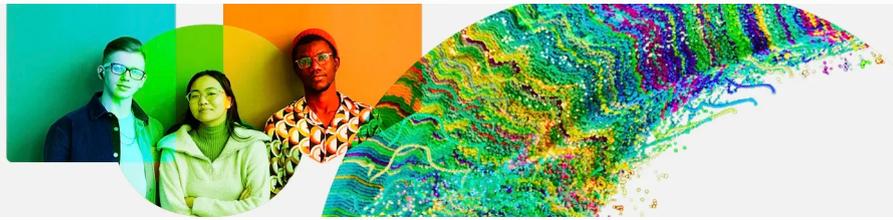
Republic of Moldova ranks highest in Creative outputs (51st), Market sophistication (63rd), Knowledge and technology outputs (64th) and Human capital and research (68th).

Lowest rankings



Republic of Moldova ranks lowest in Business sophistication (105th), Institutions (90th) and Infrastructure (89th).

The full WIPO Intellectual Property Statistics profile for Republic of Moldova can be found on [this link](#).



Benchmark of Republic of Moldova against other economy groupings for each of the seven areas of the GII Index

The charts show the relative position of Republic of Moldova (blue bar) against other economy groupings (grey bars), for each of the seven areas of the GII Index.



Upper-Middle-Income economies

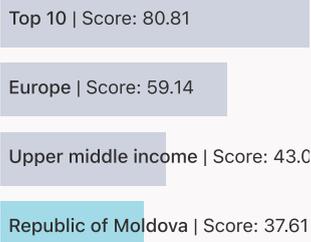
Republic of Moldova performs above the upper-middle-income group average in Human capital and research, Market sophistication, Knowledge and technology outputs, Creative outputs.



Europe

Republic of Moldova performs below the regional average in all pillars.

Institutions



Human capital and research



Infrastructure



Market sophistication



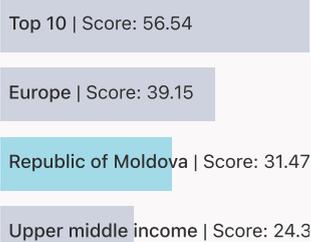
Business sophistication



Knowledge and technology outputs



Creative outputs





Innovation strengths and weaknesses in Republic of Moldova

The table below gives an overview of the indicator strengths and weaknesses of Republic of Moldova in the GII 2024.



Republic of Moldova's main innovation strengths are **Utility models by origin/bn PPP\$ GDP (rank 4)**, **Loans from microfinance institutions, % GDP (rank 6)** and **Industrial designs by origin/bn PPP\$ GDP (rank 11)**.

Strengths

Weaknesses

Rank	Code	Indicator name	Rank	Code	Indicator name
4	6.1.3	Utility models by origin/bn PPP\$ GDP	123	5.2.3	State of cluster development [†]
6	4.1.3	Loans from microfinance institutions, % GDP	121	4.3.3	Domestic market scale, bn PPP\$
11	7.1.4	Industrial designs by origin/bn PPP\$ GDP	112	3.3.2	Low-carbon energy use, %
12	7.3.3	Mobile app creation/bn PPP\$ GDP	112	5.2.1	Public Research-Industry co-publications, %
12	7.1.2	Trademarks by origin/bn PPP\$ GDP	108	1.3.1	Policy stability for doing business [†]
13	6.3.4	ICT services exports, % total trade	89	3.2.2	Logistics performance*
14	4.3.1	Applied tariff rate, weighted avg., %	75	7.1.3	Global brand value, top 5,000, % GDP
14	2.1.1	Expenditure on education, % GDP	75	2.3.4	QS university ranking, top 3*
39	2.1.5	Pupil-teacher ratio, secondary	49	6.2.2	Unicorn valuation, % GDP
44	5.2.4	Joint venture/strategic alliance deals/bn PPP\$ GDP	41	2.3.3	Global corporate R&D investors, top 3, mn USD



Republic of Moldova's innovation system

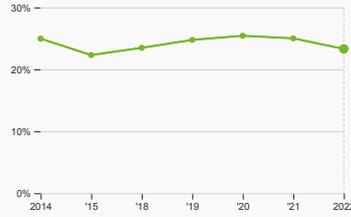
As far as practicable, the plots below present unscaled indicator data.

> Innovation inputs in Republic of Moldova



2.1.1 Expenditure on education

was equal to 6.15 % GDP in 2022, up by 0.32 percentage points from the year prior – and equivalent to an indicator rank of 14.



2.2.2 Graduates in science and engineering

was equal to 23.31 % of total graduates in 2022, down by 1.7 percentage points from the year prior – and equivalent to an indicator rank of 57.



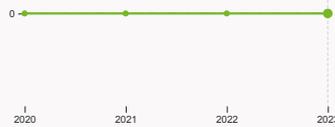
2.3.1 Researchers

was equal to 768.02 FTE per million population in 2022, down by 1.69% from the year prior – and equivalent to an indicator rank of 60.



2.3.2 Gross expenditure on R&D

was equal to 0.23 % GDP in 2022, down by – and equivalent to an indicator rank of 83.



2.3.4 QS university ranking

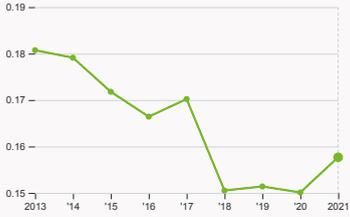
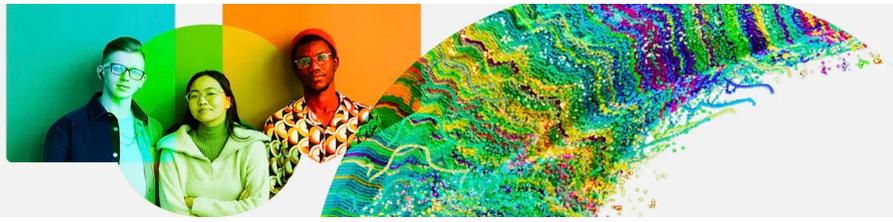
was equal to an average score of 0 for the top three universities in 2023 with no change from the year prior – and equivalent to an indicator rank of 75.



4.2.4 VC received, value

was equal to 13.92 thousand USD in 2023, up by 98.29% from the year prior – and equivalent to an indicator rank of 56.

Global Innovation Index 2024



4.3.2 Domestic industry diversification was equal to an index score of 0.16 in 2021, up by 5.05% from the year prior – and equivalent to an indicator rank of 62.



5.1.1 Knowledge-intensive employment was equal to 19.001% in 2023, up by 1.29 percentage points from the year prior – and equivalent to an indicator rank of 80.

Global Innovation Index 2024

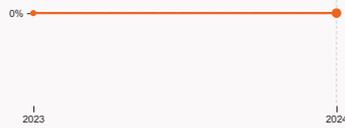


› Innovation outputs in Republic of Moldova



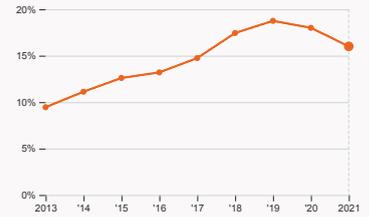
6.1.1 Patents by origin

was equal to 49 patents in 2022, down by 23.44% from the year prior – and equivalent to an indicator rank of 47.



6.2.2 Unicorn valuation

was equal to 0 % GDP in 2024 with no change from the year prior – and equivalent to an indicator rank of 49.



6.2.4 High-tech manufacturing

was equal to 16 % of total manufacturing output in 2021, down by 2 percentage points from the year prior – and equivalent to an indicator rank of 73.



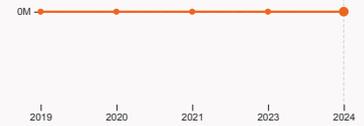
6.3.2 Production and export complexity

was equal to a score of 0.02 in 2021, up by 128.57% from the year prior – and equivalent to an indicator rank of 62.



6.3.3 High-tech exports

was equal to 56.7 million USD in 2022, up by 14.29% from the year prior – and equivalent to an indicator rank of 86.



7.1.3 Global brand value

was equal to 0 million USD for the brands in the top 5,000 in 2024 with no change from the year prior – and equivalent to an indicator rank of 75.



7.3.3 Mobile app creation

was equal to 62.35 million global downloads of mobile apps in 2023, down by 12.31% from the year prior – and equivalent to an indicator rank of 12.

Global Innovation Index 2024



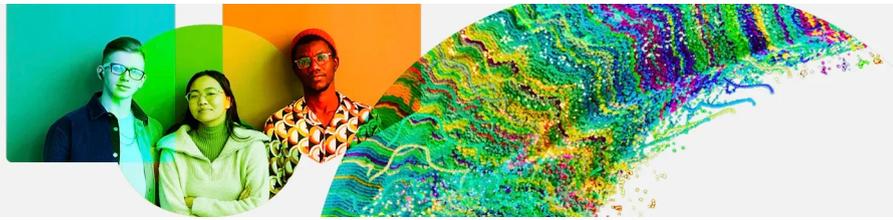
Republic of Moldova

GII 2024 rank

68

Output rank	Input rank	Income	Region	Population (mn)	GDP, PPP\$ (bn)	GDP per capita, PPP\$
57	80	Upper middle	EUR	3.1	42.2	16,915.7
			Score / Value Rank			
Institutions			37.6 90	Business sophistication 19.7 105		
1.1 Institutional environment			45 86	5.1 Knowledge workers 26.8 82		
1.1.1 Operational stability for businesses*			54 88	5.1.1 Knowledge-intensive employment, % 19 80		
1.1.2 Government effectiveness*			36 87	5.1.2 Firms offering formal training, % 38.1 40		
1.2 Regulatory environment			40.1 71	5.1.3 GERD performed by business, % GDP 0.04 74		
1.2.1 Regulatory quality*			44.5 69	5.1.4 GERD financed by business, % 15.5 74		
1.2.2 Rule of law*			35.6 82	5.1.5 Females employed w/advanced degrees, % 11.8 65		
1.3 Business environment			27.8 [105]	5.2 Innovation linkages 11.9 120		
1.3.1 Policy stability for doing business*			27.8 108	5.2.1 Public Research-Industry co-publications, % 0.6 112		
1.3.2 Entrepreneurship policies and culture*			n/a n/a	5.2.2 University-industry R&D collaboration+ 25 107		
Human capital and research			31.1 68	5.2.3 State of cluster development+ 16.9 123		
2.1 Education			55.4 54	5.2.4 Joint venture/strategic alliance deals/bn PPP\$ GDP 0.03 44		
2.1.1 Expenditure on education, % GDP 6.1 14			6.1 14	5.2.5 Patent families/bn PPP\$ GDP 0.06 65		
2.1.2 Government funding/pupil, secondary, % GDP/cap 22.3 37			22.3 37	5.3 Knowledge absorption 20.4 93		
2.1.3 School life expectancy, years 14.9 51			14.9 51	5.3.1 Intellectual property payments, % total trade 0.7 60		
2.1.4 PISA scales in reading, maths and science 414 53			414 53	5.3.2 High-tech imports, % total trade 7.4 79		
2.1.5 Pupil-teacher ratio, secondary 10.9 39			10.9 39	5.3.3 ICT services imports, % total trade 1 77		
2.2 Tertiary education			35 57	5.3.4 FDI net inflows, % GDP 2.8 53		
2.2.1 Tertiary enrolment, % gross 64.4 49			64.4 49	5.3.5 Research talent, % in businesses 6.2 69		
2.2.2 Graduates in science and engineering, % 23.3 57			23.3 57	Knowledge and technology outputs 21.2 64		
2.2.3 Tertiary inbound mobility, % 7 43			7 43	6.1 Knowledge creation 23.4 44		
2.3 Research and development (R&D)			2.8 87	6.1.1 Patents by origin/bn PPP\$ GDP 1.2 47		
2.3.1 Researchers, FTE/mn pop. 768 60			768 60	6.1.2 PCT patents by origin/bn PPP\$ GDP 0.1 55		
2.3.2 Gross expenditure on R&D, % GDP 0.2 83			0.2 83	6.1.3 Utility models by origin/bn PPP\$ GDP 2.5 4		
2.3.3 Global corporate R&D investors, top 3, mn USD 0 41			0 41	6.1.4 Scientific and technical articles/bn PPP\$ GDP 6.1 95		
2.3.4 QS university ranking, top 3* 0 75			0 75	6.1.5 Citable documents H-index 5.1 96		
Infrastructure			33.4 89	6.2 Knowledge impact 18.5 110		
3.1 Information and communication technologies (ICTs)			73.7 62	6.2.1 Labor productivity growth, % 0.5 72		
3.1.1 ICT access* 79.4 86			79.4 86	6.2.2 Unicorn valuation, % GDP 0 49		
3.1.2 ICT use* 77 71			77 71	6.2.3 Software spending, % GDP 0.08 97		
3.1.3 Government's online service* 71 60			71 60	6.2.4 High-tech manufacturing, % 16 73		
3.1.4 E-participation* 67.4 47			67.4 47	6.3 Knowledge diffusion 21.7 55		
3.2 General infrastructure			19.6 101	6.3.1 Intellectual property receipts, % total trade 0.04 78		
3.2.1 Electricity output, GWh/mn pop. 2,048.6 77			2,048.6 77	6.3.2 Production and export complexity 43.6 62		
3.2.2 Logistics performance* 18.2 89			18.2 89	6.3.3 High-tech exports, % total trade 0.7 86		
3.2.3 Gross capital formation, % GDP 24.5 57			24.5 57	6.3.4 ICT services exports, % total trade 6.4 13		
3.3 Ecological sustainability			7 118	6.3.5 ISO 9001 quality/bn PPP\$ GDP 2.6 81		
3.3.1 GDP/unit of energy use 8 91			8 91	Creative outputs 31.5 51		
3.3.2 Low-carbon energy use, % 3 112			3 112	7.1 Intangible assets 41.9 32		
3.3.3 ISO 14001 environment/bn PPP\$ GDP 0.4 105			0.4 105	7.1.1 Intangible asset intensity, top 15, % n/a n/a		
Market sophistication			33.3 63	7.1.2 Trademarks by origin/bn PPP\$ GDP 80.8 12		
4.1 Credit			30.3 55	7.1.3 Global brand value, top 5,000, % GDP 0 75		
4.1.1 Finance for startups and scaleups+ n/a n/a			n/a n/a	7.1.4 Industrial designs by origin/bn PPP\$ GDP 7 11		
4.1.2 Domestic credit to private sector, % GDP 27.5 104			27.5 104	7.2 Creative goods and services 10.3 [70]		
4.1.3 Loans from microfinance institutions, % GDP 4.8 6			4.8 6	7.2.1 Cultural and creative services exports, % total trade 0.7 43		
4.2 Investment			11.7 [54]	7.2.2 National feature films/mn pop. 15-69 n/a n/a		
4.2.1 Market capitalization, % GDP n/a n/a			n/a n/a	7.2.3 Entertainment and media market/th pop. 15-69 n/a n/a		
4.2.2 Venture capital (VC) investors, deals/bn PPP\$ GDP n/a n/a			n/a n/a	7.2.4 Creative goods exports, % total trade 0.1 89		
4.2.3 VC recipients, deals/bn PPP\$ GDP 0.05 54			0.05 54	7.3 Online creativity 31.9 50		
4.2.4 VC received, value, % GDP 0.0009 56			0.0009 56	7.3.1 Top-level domains (TLDs)/th pop. 15-69 3.1 68		
4.3 Trade, diversification and market scale			58 60	7.3.2 GitHub commits/mn pop. 15-69 14.5 49		
4.3.1 Applied tariff rate, weighted avg., % 0.9 14			0.9 14	7.3.3 Mobile app creation/bn PPP\$ GDP 78.1 12		
4.3.2 Domestic industry diversification 80.6 62			80.6 62			
4.3.3 Domestic market scale, bn PPP\$ 42.2 121			42.2 121			

NOTES: ● indicates a strength; ○ a weakness; ◆ an income group strength; ◇ an income group weakness; * an index; + a survey question, ● that the economy's data is outdated. Square brackets [] indicate the data minimum coverage (DMC) requirements were not met at the sub-pillar or pillar level; n/a represents missing values; a dash - indicates an indicator which is not relevant to this economy and thus not considered for DMC thresholds.



Data availability

The following tables list indicators that are either missing or outdated for Republic of Moldova.



Republic of Moldova has missing data for seven indicators and outdated data for nine indicators.

Missing data for Republic of Moldova

Code	Indicator name	Economy Year	Model Year	Source
1.3.2	Entrepreneurship policies and culture [†]	n/a	2023	Global Entrepreneurship Monitor
4.1.1	Finance for startups and scaleups [†]	n/a	2023	Global Entrepreneurship Monitor
4.2.1	Market capitalization, % GDP	n/a	2022	World Federation of Exchanges; World Bank
4.2.2	Venture capital (VC) investors, deals/bn PPP\$ GDP	n/a	2023	LSEG Data & Analytics; International Monetary Fund
7.1.1	Intangible asset intensity, top 15, %	n/a	2023	Brand Finance
7.2.2	National feature films/mn pop. 15–69	n/a	2022	OMDIA; United Nations, World Population Prospects
7.2.3	Entertainment and media market/th pop. 15–69	n/a	2023	PwC, GEMO; United Nations, World Population Prospects; International Monetary Fund

Outdated data for Republic of Moldova

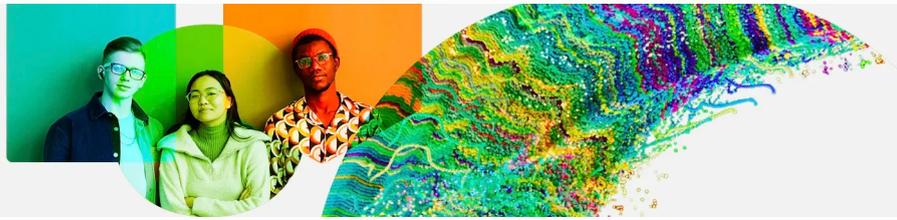
Code	Indicator name	Economy Year	Model Year	Source
1.3.1	Policy stability for doing business [†]	2021	2023	World Economic Forum, Executive Opinion Survey (EOS)
2.1.5	Pupil–teacher ratio, secondary	2021	2022	UNESCO Institute for Statistics
5.1.2	Firms offering formal training, %	2019	2023	World Bank Enterprise Surveys
5.1.3	GERD performed by business, % GDP	2018	2022	UNESCO Institute for Statistics; Eurostat; OECD; RICYT
5.1.4	GERD financed by business, %	2018	2021	UNESCO Institute for Statistics; Eurostat; OECD; RICYT
5.2.2	University–industry R&D collaboration [†]	2021	2023	World Economic Forum, Executive Opinion Survey (EOS)
5.2.3	State of cluster development [†]	2021	2023	World Economic Forum, Executive Opinion Survey (EOS)
5.2.4	Joint venture/strategic alliance deals/bn PPP\$ GDP	2022	2023	LSEG Data & Analytics; International Monetary Fund

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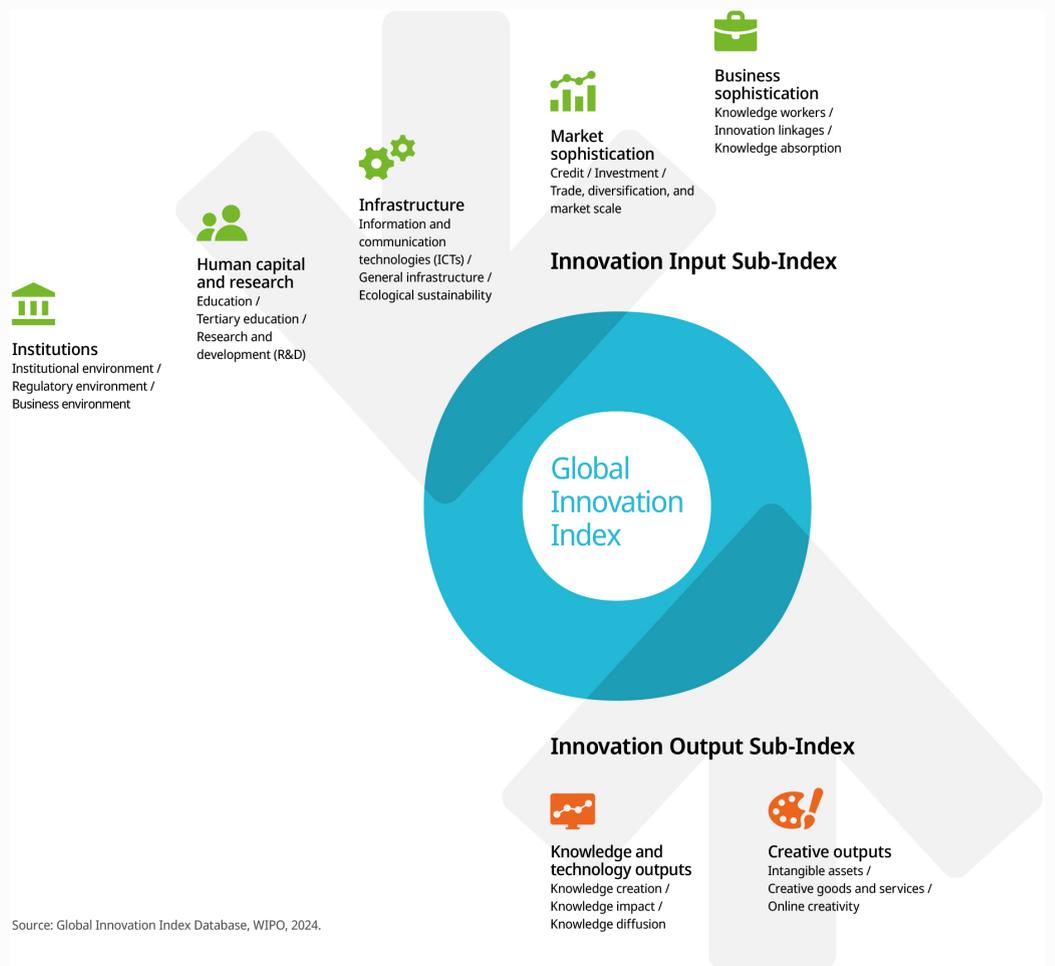
Code	Indicator name	Economy Year	Model Year	Source
5.3.5	Research talent, % in businesses	2018	2022	UNESCO Institute for Statistics; Eurostat; OECD; RICYT

Global Innovation Index 2024



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.