

REPUBLIC OF MOLDOVA

64th

The Republic of Moldova ranks 64th 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 the Republic of Moldova 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 the Republic of Moldova in the GII 2021 is between ranks 58 and 66.

Rankings for the Republic of Moldova (2019–2021)

	GII	Innovation inputs	Innovation outputs
2021	64	80	54
2020	59	75	48
2019	58	81	45

- The Republic of Moldova performs better in innovation outputs than innovation inputs in 2021.
- This year the Republic of Moldova ranks 80th in innovation inputs, lower than last year but higher than 2019.
- As for innovation outputs, The Republic of Moldova ranks 54th. This position is lower than both 2020 and 2019.

6th

Moldova ranks 6th among the 34 lower middle-income group economies.

37th

Moldova ranks 37th among the 39 economies in Europe.

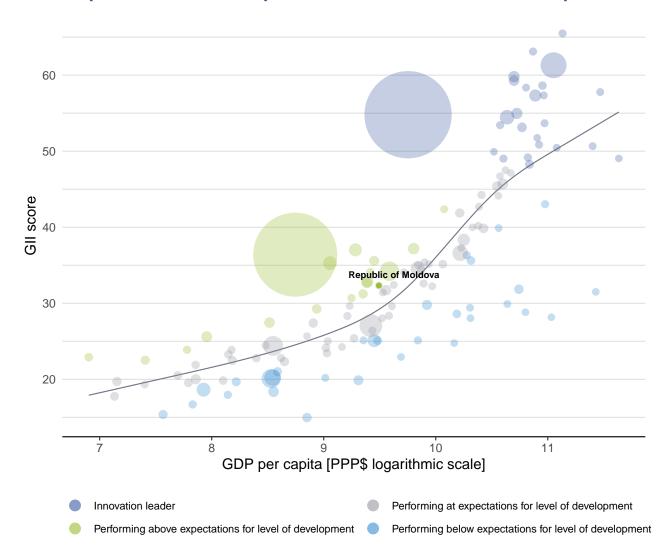




The bubble chart below shows the relationship between income levels (GDP per capita) and innovation performance (GII score). The trend line gives an indication of the expected innovation performance according to income level. Economies appearing above the trend line are performing better than expected and those below are performing below expectations.

Relative to GDP, the Republic of Moldova's performance is above expectations for its level of development.

The positive relationship between innovation and development



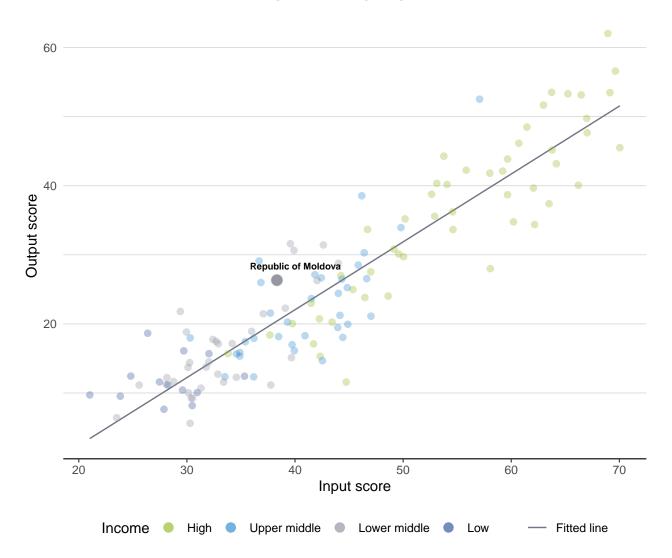




The chart below shows the relationship between innovation inputs and innovation outputs. Economies above the line are effectively translating costly innovation investments into more and higher-quality outputs.

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

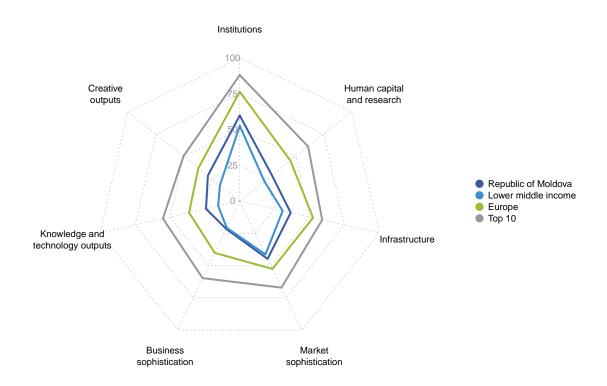
Innovation input to output performance





BENCHMARKING AGAINST OTHER LOWER MIDDLE-INCOME GROUP ECONOMIES AND EUROPE

The seven GII pillar scores for the Republic of Moldova



Lower middle-income group economies

The Republic of Moldova performs above the lower middle-income group average in all GII pillars.

Europe

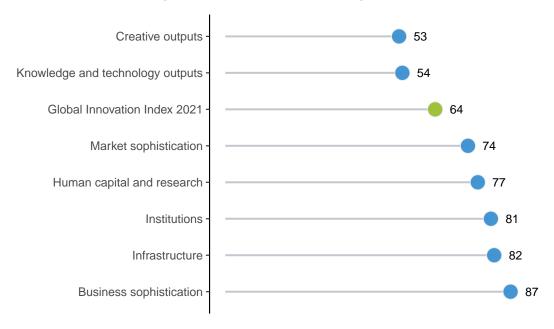
The Republic of Moldova performs below the regional average in all GII pillars.





The Republic of Moldova performs best in Creative outputs and its weakest performance is in Business sophistication.

The seven GII pillar ranks for the Republic of Moldova



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





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

Strengths and weaknesses for the Republic of Moldova

Strengths				Weaknesses			
Code	Indicator name	Rank	Code	Indicator name	Rank		
1.3.1	Ease of starting a business	12	2.3.3	Global corporate R&D investors, top 3, mn US\$	41		
2.1.1	Expenditure on education, % GDP	13	2.3.4	QS university ranking, top 3	74		
2.1.2	Government funding/pupil, secondary, % GDP/cap	18	3.2.2	Logistics performance	108		
2.1.5	Pupil-teacher ratio, secondary	31	3.3.1	GDP/unit of energy use	107		
6.1.1	Patents by origin/bn PPP\$ GDP	31	4.3.3	Domestic market scale, bn PPP\$	116		
6.1.3	Utility models by origin/bn PPP\$ GDP	1	5.1.3	GERD performed by business, % GDP	76		
6.3.4	ICT services exports, % total trade	15	5.2	Innovation linkages	119		
7.1.1	Trademarks by origin/bn PPP\$ GDP	14	5.2.1	University-industry R&D collaboration	116		
7.1.3	Industrial designs by origin/bn PPP\$ GDP	9	5.2.2	State of cluster development and depth	126		
7.3.4	Mobile app creation/bn PPP\$ GDP	20	7.1.2	Global brand value, top 5,000, % GDP	80		
			7.2.2	National feature films/mn pop. 15–69	101		

Republic of Moldova

Income

Region

Population (mn)

Output rank Input rank

GII 2021 rank

64

GII 2020 rank

54	80	Lower middle	EUR		4.0	34.9	13,253		59
			Score/					Score/	
îi Ins	titutions		Value 59.8	Rank 81		Business sophisti	cation	Value 21.7	
	itical environmen		49.5	92	5.1	Knowledge workers		30.5	67
-	tical and operation		64.3	80	5.1.1		mplovment. %	31.1	46
	ernment effectiver		42.1	93		Firms offering formal tra		38.1	33
Reg	ulatory environm	ent	54.6	95		GERD performed by bu		O.0	76
	ulatory quality*		43.8	70	♦ 5.1.4			15.5	72
_	e of law*		36.9	84	5.1.5	Females employed w/ad	dvanced degrees, %	16.4	42
3 Cos	t of redundancy di	smissal	23.7	101	5.2	Innovation linkages		13.0	119
Bus	iness environme	nt	75.2	49		University-industry R&D		② 28.7	116
1 Ease	e of starting a busi	ness*	95.7	12 (•	State of cluster develop		② 26.1	126
2 Ease	e of resolving insol	vency*	54.8	62		GERD financed by abro		0.0	75
							liance deals/bn PPP\$ GDP	n/a	n/a
. Hui	man capital aı	nd research	28.8	77		Patent families/bn PPPS		0.2	45
110	man capital a	14 100041011	_0.0	•	5.3	Knowledge absorption		21.6	82
Edu	ıcation		51.7	63		Intellectual property pay		0.5	66
	enditure on educa		6.1	13 (522	High-tech imports, % to		7.6 1.9	67 35
		upil, secondary, % GDP/cap		18 (ICT services imports, % FDI net inflows, % GDP		2.8	35 60
	ool life expectancy		11.4	96		Research talent, % in b		② 6.2	69
		, maths and science	424.4	51		rioccaron taioni, 70 in D	4011100000	J 0.L	00
	il-teacher ratio, se	condary	10.3	31 (•	Manufadae and t	a a broad a sur a cutacuta	04.0	E 4
	tiary education		31.5	70	Cig.	Knowledge and t	echnology outputs	24.2	54
	iary enrolment, %		39.2	75 40	6.1	Knowledge creation		30.2	34
	duates in science a iary inbound mobi	and engineering, %	24.8 5.6	40 41	6.1.1	-	P\$ GDP	2.4	31
	-	•				PCT patents by origin/b		0.1	59
	earch and develo		3.2	84	6.1.3	Utility models by origin/	bn PPP\$ GDP	3.8	1
	earchers, FTE/mn		Ø 696.1	59	6.1.4	Scientific and technical	articles/bn PPP\$ GDP	7.4	98
	ss expenditure on	investors, top 3, mn US\$	② 0.3 0.0	87 41 (6.1.5	Citable documents H-in	ndex	6.0	96
	university ranking,		0.0	74 (Knowledge impact		19.9	104
.+ QO	ariiversity rariking,	юро	0.0	14	6.2.1	Labor productivity grow	rth, %	-1.1	84
1 L			00.5	00		New businesses/th pop		1.9	59
· Inti	rastructure		36.5	82		Software spending, % (0.1	87
Info	rmation and commi	unication technologies (ICTs	68.0	62		ISO 9001 quality certific		2.6	81
	access*		66.4	68	♦ 0.2.0	High-tech manufacturin	ıg, %	16.2	70
2 ICT	use*		54.2	73	♦ 6.3	Knowledge diffusion		22.4	51
3 Gov	ernment's online s	ervice*	75.3	52		Intellectual property red		0.1	63
4 E-pa	articipation*		76.2	55		Production and export of High-tech exports, % to		39.7 0.9	70 74
Gen	neral infrastructu	re	22.2	95		ICT services exports, %		5.0	15
1 Elec	ctricity output, GW	n/mn pop.	1,520.3	90	0.0.4	io i services exports, 70	iotal trade	5.0	10
	istics performance		19.0	108		L Our atting and and		00.5	
3 Gro	ss capital formatio	n, % GDP	25.5	41	€,	Creative outputs		28.5	53
	ological sustainat		19.3		7.1	Intangible assets		43.3	34
	P/unit of energy us		6.0	107	7.1.1	Trademarks by origin/bi	n PPP\$ GDP	87.8	14
	ironmental perforn		44.4	76	•	Global brand value, top		0.0	80
3 ISO	14001 environment	al certificates/bn PPP\$ GDF	0.3	97	7.1.3	Industrial designs by ori	igin/bn PPP\$ GDP	12.5	9
					7.1.4	ICTs and organizational	model creation†	48.3	87
Ma	rket sophistic	ation	44.9	74	7.2	Creative goods and se	ervices	8.2	88
				٠.	7.2.1		vices exports, % total trade	0.9	32
Cre			33.6	94		National feature films/m	• •	② 0.3	101
	e of getting credit*	rate sector, % GDP	70.0 24.8	44 105		Entertainment and med	• •	n/a	n/a
	rofinance gross loa		0.7	30		Printing and other media	•	0.7	74
	=	, /0 GDI				Creative goods exports	, % total trade	0.1	97
	estment	ority invoctor=*	39.1	[38]	7.3	Online creativity		19.1	60
	e of protecting mir		68.0	44 n/a	7.3.1		ins (TLDs)/th pop. 15-69	2.1	75
	ket capitalization, ture capital investo	% GDP ors, deals/bn PPP\$ GDP	n/a n/a	n/a n/a		Country-code TLDs/th	•	2.3	66
		, o, acas, bii FFF \$ GDF				Wikipedia edits/mn pop		45.2	75
3 Vent	•	nts deals/hn PPP\$ GDP	nn						20
3 Vent 4 Vent	ture capital recipie	nts, deals/bn PPP\$ GDP	0.0	42	7.3.4	Mobile app creation/bn	PPP\$ GDP	27.4	20
3 Vent 4 Vent Trac	ture capital recipie de, diversification	, and market scale	61.8	86	7.3.4	Mobile app creation/bn	PPP\$ GDP	27.4	20
.3 Vent .4 Vent Trac .1 App	ture capital recipie	, and market scale ghted avg., %			7.3.4	Mobile app creation/bn	PPP\$ GDP	27.4	20

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. \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.





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

Missing data for the Republic of Moldova

Code	Indicator name	Economy year	Model year	Source
4.2.2	Market capitalization, % GDP	n/a	2019	World Federation of Exchanges
4.2.3	Venture capital investors, deals/bn PPP\$ GDP	n/a	2020	Refinitiv Eikon
5.2.4	Joint venture/strategic alliance deals/bn PPP\$ GDP	n/a	2020	Refinitiv
7.2.3	Entertainment and media market/th pop. 15-69	n/a	2020	PwC

Outdated data for the Republic of Moldova

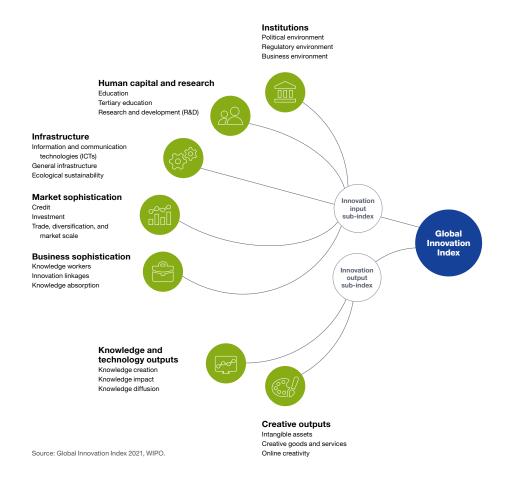
Code	Indicator name	Economy year	Model year	Source
2.3.1	Researchers, FTE/mn pop.	2018	2019	UNESCO Institute for Statistics; Eurostat; OECD - Main Science and Technology Indicators
2.3.2	Gross expenditure on R&D, % GDP	2018	2019	UNESCO Institute for Statistics; Eurostat; OECD - Main Science and Technology Indicators
4.3.1	Applied tariff rate, weighted avg., %	2016	2019	World Bank
5.1.3	GERD performed by business, % GDP	2018	2019	UNESCO Institute for Statistics; Eurostat; OECD - Main Science and Technology Indicators
5.2.1	University-industry R&D collaboration	2019	2020	World Economic Forum
5.2.2	State of cluster development and depth	2019	2020	World Economic Forum
5.3.5	Research talent, % in businesses	2018	2019	UNESCO Institute for Statistics; Eurostat; OECD - Main Science and Technology Indicators
7.2.2	National feature films/mn pop. 15–69	2015	2017	UNESCO Institute for Statistics





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.