

Relative to EU in base year • Relative to EU in same year

**Structural differences** with the EU are shown in the table below including, compared to the EIS 2020, new information on different types of (innovating) enterprises (Innovation profiles) and environmental indicators.

	RO	EU
Performance and structure of the economy		
GDP per capita (PPS)	20,400	30,800
Average annual GDP growth (%)	0.4	-2.5
Employment share Manufacturing (NACE C) (%)	18.8	16.5
of which High and Medium high-tech (%)	33.9	37.9
Employment share Services (NACE G-N) (%)	32.4	41.2
of which Knowledge-intensive services (%)	26.8	35.1
Turnover share SMEs (%)	42.0	36.5
Turnover share large enterprises (%)	42.7	45.7
Foreign-controlled enterprises – share of value added (%)	15.9	11.8
Business and entrepreneurship		
Enterprise births (10+ employees) (%)	2.2	1.0
Total Entrepreneurial Activity (TEA) (%)	10.8	6.7
FDI net inflows (% GDP)	2.9	2.0
Top R&D spending enterprises per 10 million population	0.0	16.2
Buyer sophistication (1 to 7 best)	2.8	3.7
Innovation profiles		
In-house product innovators with market novelties	2.4	10.7
In-house product innovators without market novelties	5.0	12.3
In-house business process innovators	3.5	11.0
Innovators that do not develop innovations themselves	3.4	11.6
Innovation active non-innovators	0.2	3.3
Non-innovators with potential to innovate	29.4	19.9
Non-innovators without disposition to innovate	56.0	31.3
Governance and policy framework		
Ease of starting a business (0 to 100 best)	73.0	76.5
Basic school entrepreneurial education and training	2.4	2.0
Govt. procurement of advanced tech. products	2.5	3.5
Rule of law (-2.5 to 2.5 best)	0.4	1.1
Climate change indicators		
Circular material use rate	1.6	11.7
Greenhouse gas emissions intensity of energy consumption	86.3	86.6
Eco-Innovation Index	57.0	100.0
Demography		
Population size	19.4	446.7
Average annual population growth (%)	-0.5	0.1
Population density	83.7	108.8

Romania's strengths are in *Sales impacts, Digitalisation* and *Environmental sustainability*. The top-3 indicators include Medium and high-tech goods exports, Broadband penetration, and Venture capital expenditures.

Recent performance increases are observed for International scientific co-publications, Most-cited publications, Foreign doctorate students, Broadband penetration, and Innovative SMEs collaborating with others. Romania has an above share of Non-innovators without disposition to innovate and is showing below average scores on the Climate change related indicators.

	Relative to Relative to EU		
Romania	EU 2021		
	2021	2014	2021
SUMMARY INNOVATION INDEX	31.2	31.0	35.1
Human resources	13.2	39.6	14.0
Doctorate graduates	22.1	77.0	19.6
Population with tertiary education	10.9	13.2	14.0
Lifelong learning	4.0	5.6	4.4
Attractive research systems	35.0	22.3	39.4
International scientific co-publications	36.1	30.0	47.4
Most cited publications	40.5	19.8	39.8
Foreign doctorate students	24.0	17.7	28.5
Digitalisation	61.8	57.4	85.5
Broadband penetration	100.0	104.9	151.7
People with above basic overall digital skills	4.5	0.0	5.6
Finance and support	28.7	24.7	34.2
R&D expenditures in the public sector	3.6	21.1	3.5
Venture capital expenditures	72.6	28.3	122.0
Government support for business R&D	12.5	27.3	14.5
Firm investments	7.2	17.1	8.7
R&D expenditure in the business sector	16.3	11.0	18.1
Non-R&D Innovation expenditures	0.0	40.4	0.0
Innovation expenditures per employee	6.3	4.7	8.4
Use of information technologies	26.1	11.1	30.2
Enterprises providing ICT training	6.7	0.0	6.7
Employed ICT specialists	42.9	23.8	57.1
Innovators	3.8	9.7	5.2
Product innovators (SMEs)	7.8	0.0	11.0
Business process innovators (SMEs)	0.0	18.2	0.0
Linkages	16.0	15.1	21.5
Innovative SMEs collaborating with others	13.4	0.0	19.7
Public-private co-publications	46.2	35.9	51.8
Job-to-job mobility of HRST	0.0	10.3	0.0
Intellectual assets	32.8	22.0	28.4
PCT patent applications	6.3	4.7	5.5
Trademark applications	56.9	47.0	59.8
Design applications	26.1	12.6	17.9
Employment impacts	10.3	4.4	10.5
Employment in knowledge-intensive activities	23.2	10.7	25.3
Employment in innovative enterprises	0.0	0.0	0.0
Sales impacts	79.9	55.9	81.4
Medium and high tech goods exports	100.8	92.1	110.4
Knowledge-intensive services exports	61.3	46.7	64.9
Sales of innovative products	72.4	19.4	63.0
Environmental sustainability	38.2	61.4	39.8
Resource productivity	10.6	7.7	15.7
Air emissions by fine particulate matter	66.4	59.9	70.6
Environment-related technologies	19.5	95.3	14.7

The colours show normalised performance in 2021 relative to that of the EU in 2021: dark green: above 125%; light green: between 100% and 125%; yellow: between 70% and 100%; orange: below 70%. Normalised performance uses the data after a possible imputation of missing data and transformation of the data.