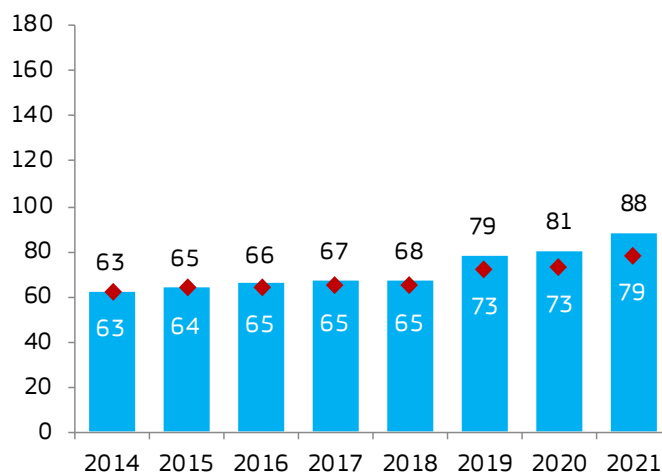




Greece is a Moderate Innovator.

Over time, performance relative to the EU has increased strongly, in particular in the last three years.



■ 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.

	EL	EU
Performance and structure of the economy		
GDP per capita (PPS)	20,600	30,800
Average annual GDP growth (%)	-3.2	-2.5
Employment share Manufacturing (NACE C) (%)	9.5	16.5
of which High and Medium high-tech (%)	16.3	37.9
Employment share Services (NACE G-N) (%)	46.1	41.2
of which Knowledge-intensive services (%)	28.2	35.1
Turnover share SMEs (%)	39.4	36.5
Turnover share large enterprises (%)	35.0	45.7
Foreign-controlled enterprises – share of value added (%)	4.5	11.8
Business and entrepreneurship		
Enterprise births (10+ employees) (%)	2.4	1.0
Total Entrepreneurial Activity (TEA) (%)	6.5	6.7
FDI net inflows (% GDP)	1.7	2.0
Top R&D spending enterprises per 10 million population	2.8	16.2
Buyer sophistication (1 to 7 best)	3.3	3.7
Innovation profiles		
In-house product innovators with market novelties	16.7	10.7
In-house product innovators without market novelties	20.5	12.3
In-house business process innovators	12.8	11.0
Innovators that do not develop innovations themselves	8.5	11.6
Innovation active non-innovators	1.8	3.3
Non-innovators with potential to innovate	31.8	19.9
Non-innovators without disposition to innovate	7.9	31.3
Governance and policy framework		
Ease of starting a business (0 to 100 best)	67.6	76.5
Basic school entrepreneurial education and training	1.9	2.0
Govt. procurement of advanced tech. products	2.6	3.5
Rule of law (-2.5 to 2.5 best)	0.1	1.1
Climate change indicators		
Circular material use rate	3.4	11.7
Greenhouse gas emissions intensity of energy consumption	82.0	86.6
Eco-Innovation Index	75.0	100.0
Demography		
Population size	10.7	446.7
Average annual population growth (%)	-0.1	0.1
Population density	82.4	108.8

Greece's strengths are in *Innovators*, *Linkages* and *Employment impacts*. The top-3 indicators include Sales of innovative products, Innovative SMEs collaborating with others, and Product innovators.

The strong increase in innovation performance since 2018 is due to improved performance for Broadband penetration, Venture capital, Product innovators, Job-to-job mobility of HRST, and Medium and high-tech goods exports.

Greece has above average shares of In-house product innovators and is showing close to average scores on the Climate change related indicators.

Greece	Relative to EU 2021 in	Relative to EU 2014 in	
	2021	2014	2021
SUMMARY INNOVATION INDEX	78.6	62.6	88.5
Human resources	68.6	62.0	72.7
Doctorate graduates	48.1	42.6	42.6
Population with tertiary education	119.2	123.1	153.7
Lifelong learning	30.3	26.7	33.3
Attractive research systems	67.3	65.4	75.8
International scientific co-publications	84.6	85.2	111.0
Most cited publications	88.8	79.6	87.3
Foreign doctorate students	5.8	10.4	6.9
Digitalisation	60.8	42.1	84.2
Broadband penetration	59.0	44.7	89.4
People with above basic overall digital skills	63.6	38.9	77.8
Finance and support	50.3	27.1	59.9
R&D expenditures in the public sector	90.9	47.4	87.7
Venture capital expenditures	29.1	4.9	48.9
Government support for business R&D	25.6	15.0	29.7
Firm investments	63.8	56.3	77.1
R&D expenditure in the business sector	38.3	15.0	42.5
Non-R&D Innovation expenditures	106.6	111.3	121.2
Innovation expenditures per employee	66.1	53.4	87.3
Use of information technologies	40.8	39.1	47.1
Enterprises providing ICT training	46.7	40.0	46.7
Employed ICT specialists	35.7	38.1	47.6
Innovators	160.0	115.3	218.9
Product innovators (SMEs)	162.3	75.6	229.1
Business process innovators (SMEs)	157.7	150.3	209.9
Linkages	109.1	86.5	147.1
Innovative SMEs collaborating with others	174.8	148.1	256.1
Public-private co-publications	112.9	91.9	126.7
Job-to-job mobility of HRST	58.9	38.5	84.6
Intellectual assets	48.7	30.8	42.2
PCT patent applications	19.0	11.2	16.5
Trademark applications	87.9	63.6	92.3
Design applications	22.8	15.8	15.7
Employment impacts	107.7	95.2	109.7
Employment in knowledge-intensive activities	79.3	89.3	86.7
Employment in innovative enterprises	130.5	99.3	126.0
Sales impacts	89.7	54.5	91.4
Medium and high tech goods exports	30.1	2.5	33.0
Knowledge-intensive services exports	67.9	83.5	71.9
Sales of innovative products	220.1	88.3	191.3
Environmental sustainability	80.9	95.7	84.2
Resource productivity	95.1	67.3	140.9
Air emissions by fine particulate matter	62.1	65.6	66.0
Environment-related technologies	98.4	151.1	73.9

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.