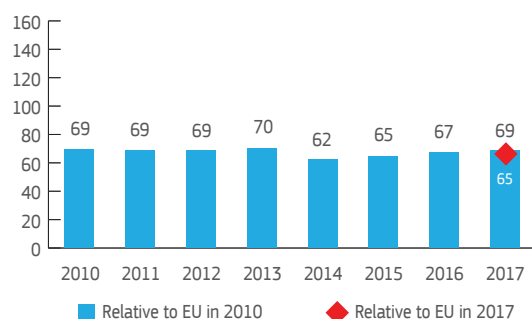




Greece is a **Moderate Innovator**. Over time, performance has remained the same relative to that of the EU in 2010.



Innovators, Linkages, and Attractive research systems are the strongest innovation dimensions. Intellectual assets and Finance and support are the weakest innovation dimensions.

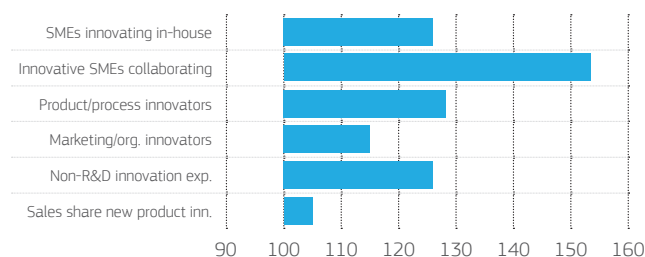
Greece	Performance relative to EU 2010 in		Relative to EU 2017 in
	2010	2017	2017
SUMMARY INNOVATION INDEX	69.4	68.5	65.0
Human resources	70.1	84.4	70.7
New doctorate graduates	69.2	71.2	51.1
Population with tertiary education	111.2	139.6	123.0
Lifelong learning	22.9	35.4	34.7
Attractive research systems	83.2	102.3	90.0
International scientific co-publications	120.9	194.0	119.3
Most cited publications	78.6	85.7	82.5
Foreign doctorate students	N/A	N/A	N/A
Innovation-friendly environment	39.2	54.0	40.3
Broadband penetration	22.2	55.6	31.3
Opportunity-driven entrepreneurship	49.3	53.0	49.2
Finance and support	29.2	41.7	38.7
R&D expenditure in the public sector	41.6	75.4	76.1
Venture capital expenditures	13.2	0.9	0.7
Firm investments	61.0	61.2	54.7
R&D expenditure in the business sector	16.1	33.6	30.2
Non-R&D innovation expenditures	105.4	109.3	100.0
Enterprises providing ICT training	71.4	50.0	43.8
Innovators	120.0	101.3	117.7
SMEs product/process innovations	109.4	97.7	119.5
SMEs marketing/organisational innovations	138.5	100.7	121.5
SMEs innovating in-house	111.3	105.3	112.8
Linkages	86.7	91.1	90.2
Innovative SMEs collaborating with others	121.5	136.0	135.3
Public-private co-publications	58.9	51.1	50.6
Private co-funding of public R&D exp.	81.8	89.4	88.1
Intellectual assets	12.8	35.4	35.1
PCT patent applications	11.0	13.3	13.9
Trademark applications	19.0	74.5	65.9
Design applications	9.9	26.6	27.6
Employment impacts	57.3	69.2	68.9
Employment in knowledge-intensive activities	68.8	83.1	75.3
Employment fast-growing enterprises	N/A	N/A	N/A
Sales impacts	87.5	47.4	45.6
Medium and high tech product exports	12.9	4.8	4.5
Knowledge-intensive services exports	88.5	49.9	47.6
Sales of new-to-market/firm innovations	174.5	95.0	93.9

Dark green: normalised performance above 120% of EU; light green: normalised performance between 90% and 120% of EU; yellow: normalised performance between 50% and 90% of EU; orange: normalised performance below 50% of EU. Normalised performance uses the data after a possible imputation of missing data and transformation of the data.

Data in red show a decline in performance compared to 2010.

Provisional CIS 2016 data show improved performance for all six indicators.

Provisional CIS 2016 vs CIS 2014 (=100)



Structural differences with the EU are shown in the table below. GDP per capita, the employment share in high and medium high-tech manufacturing, and the value added share of foreign-controlled enterprises are well below the EU average.

	EL	EU
Performance and structure of the economy		
GDP per capita (PPS)	19,900	28,600
Average annual GDP growth (%)	0.5	2.2
Employment share Manufacturing (NACE C) (%)	9.2	15.5
of which High and Medium high-tech (%)	14.2	37.2
Employment share Services (NACE G-N) (%)	45.8	41.6
of which Knowledge-intensive services (%)	29.1	35.0
Turnover share SMEs (%)	39.1	38.0
Turnover share large enterprises (%)	27.9	44.4
Foreign-controlled enterprises – share of value added (%)	3.8	12.5
Business and entrepreneurship		
Enterprise births (10+ employees) (%)	2.2	1.5
Total Entrepreneurial Activity (TEA) (%)	5.8	6.6
FDI net inflows (% GDP)	1.1	3.6
Top R&D spending enterprises per 10 mln population	4.3	19.7
Buyer sophistication (1 to 7 best)	3.3	3.7
Governance and policy framework		
Ease of starting a business (0 to 100 best)	68.6	76.9
Basic-school entrepren. education and training (1 to 5 best)	1.8	1.9
Govt. procurement of advanced tech products (1 to 7 best)	2.6	3.5
Rule of law (-2.5 to 2.5 best)	0.3	1.2
Demography		
Population size (millions)	10.8	510.1
Average annual population growth (%)	-0.4	0.3
Population density (inhabitants/km ²)	82.3	117.1

EU targets for 2020

Indicator	2013	Latest	Target ¹
Gross domestic expenditure on R&D (% of GDP)	0.66	1.01	1.20
Tertiary educational attainment (% of population aged 30-34)	34.9	43.4	32.0

¹ Sources are provided in the introduction to the country profiles.

RIO country report:

<https://rio.jrc.ec.europa.eu/en/country-analysis/Greece>

European Semester country report:

Not available