



Greece is a Moderate Innovator. Over time, performance has increased by 0.7% relative to that of the EU in 2010.

Innovation system

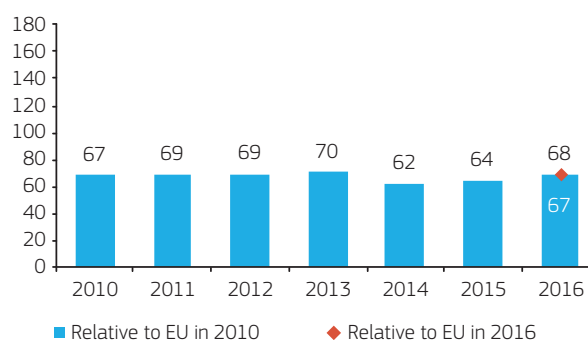
Relative strengths of the innovation system are in Innovators, Attractive research systems, and Human resources. Relative weaknesses are in Innovation-friendly environment, Intellectual assets, and Finance and support.

Structural differences

Notable differences are a larger share of employment in Agriculture & Mining, a smaller share of employment in Manufacturing, in High and Medium high-tech manufacturing and in Utilities and Construction, a larger share of employment in Public administration, a larger share of micro enterprises in turnover, a smaller share of large enterprises in turnover, a smaller share of foreign controlled enterprises, a lower number of Top R&D spending enterprises and a lower average R&D spending of these enterprises, lower GDP per capita, a lower and negative growth rate of GDP, a lower and negative growth rate of population, and lower population density.

	EL	EU
Structure of the economy		
Composition of employment, average 2011-15		
- Agriculture & Mining (NACE A-B) (%)	13.3	5.1
- Manufacturing (NACE C) (%)	9.4	15.6
<i>of which High and Medium high-tech (%)</i>	13.6	36.4
- Utilities and Construction (NACE D-F) (%)	6.3	8.6
- Services (NACE G-N) (%)	62.1	63.6
<i>of which Knowledge-intensive services (%)</i>	49.6	58.0
- Public administration, etc. (NACE O-U) (%)	8.9	7.1
Business indicators		
Composition of turnover, average 2011-2014		
- Micro enterprises (0-9 employees) (%)	35.9	17.3
- SMEs (10-249 employees) (%)	36.5	38.0
- Large enterprises (250+ employees) (%)	28.1	44.1
Share of foreign controlled enterprises, 2014 (%)	0.23	1.18
Top R&D spending enterprises		
- average number per 10 mln population, 2011-15	4.2	29.9
- average R&D spending, mln Euros, 2011-15	30.2	165.8
Enterprise births (10+ empl.) (%), avg 2012-14	n/a	1.5
Buyer sophistication 1-7 (best), 2013-14	3.3	3.6
Ease of starting a business, Doing Business 2017	68.7	76.5
Socio-demographic indicators		
GDP per capita, PPS, avg 2011-13	19,900	25,400
Change in GDP between 2010 and 2015, (%)	-18.4	5.4
Population size, avg 2011-15 (millions)	11.0	505.5
Change in population between 2010 and 2015 (%)	-2.3	1.1
Population aged 15-64, avg 2011-2015 (%)	65.3	66.1
Population density, average 2011-15	83.0	116.4
Degree of urbanisation, average 2011-15 (%)	68.5	74.4

Values in green show performance above 120% of EU, values in red show performance below 80% of EU.



Greece	Performance relative to EU 2010 in		Change 2010-2016
	2010	2016	
SUMMARY INNOVATION INDEX	67.5	68.2	0.7
Human resources	51.5	86.4	34.8
New doctorate graduates	46.2	71.2	25.0
Population with tertiary education	82.2	130.7	68.4
Lifelong learning	22.1	29.5	7.4
Attractive research systems §	85.7	100.9	15.1
International scientific co-publications	108.8	187.4	66.7
Most cited publications	81.0	84.2	3.1
Foreign doctorate students	N/A	N/A	N/A
Innovation-friendly environment	39.6	33.6	-6.0
Broadband penetration	22.2	22.2	0.0
Opportunity-driven entrepreneurship	51.8	41.7	-10.2
Finance and support	27.5	47.3	19.8
R&D expenditure in the public sector	41.4	84.0	42.6
Venture capital expenditures	10.0	1.0	-9.0
Firm investments	61.3	65.3	4.0
R&D expenditure in the business sector	17.6	25.3	7.7
Non-R&D innovation expenditures	105.4	109.3	3.9
Enterprises providing ICT training	71.4	71.4	0.0
Innovators	121.3	101.2	-20.1
SMEs product/process innovations	109.4	97.7	-11.6
SMEs marketing/organizational innovations	100.5	100.7	-38.8
SMEs innovating in-house	114.7	105.3	-9.4
Linkages	78.6	82.3	3.7
Innovative SMEs collaborating with others	121.5	136.6	14.5
Public-private co-publications	53.9	39.3	-14.6
Private co-funding of public R&D exp.	64.7	75.3	10.6
Intellectual assets	22.6	42.9	20.3
PCT patent applications	33.1	38.3	5.3
Trademark applications	20.8	70.0	49.2
Design applications	9.9	28.2	18.3
Employment impacts §	57.4	70.3	13.0
Employment in knowledge-intensive activities	67.9	83.3	15.4
Employment fast-growing enterprises	N/A	N/A	N/A
Sales impacts	89.7	50.7	-39.0
Medium and high tech product exports	21.0	10.6	-10.4
Knowledge-intensive services exports	88.1	54.2	-33.9
Sales of new-to-market/firm innovations	100.5	95.0	-79.6

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.

§ Due to missing data, the relative dimension score does not necessarily reflect that of the indicators.

Change highlighted in green is positive; change highlighted in light red is negative.