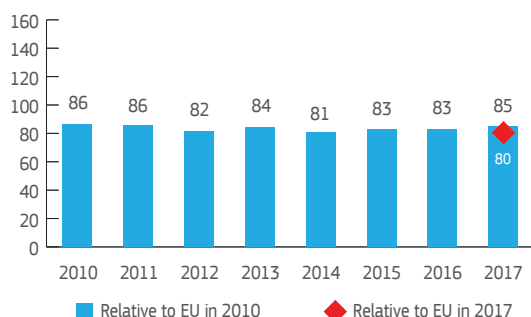




Portugal is a **Moderate Innovator**. Over time, performance has declined relative to that of the EU in 2010.



Innovation-friendly environment and Innovators are the strongest innovation dimensions. Sales impacts and Linkages are the weakest innovation dimensions.

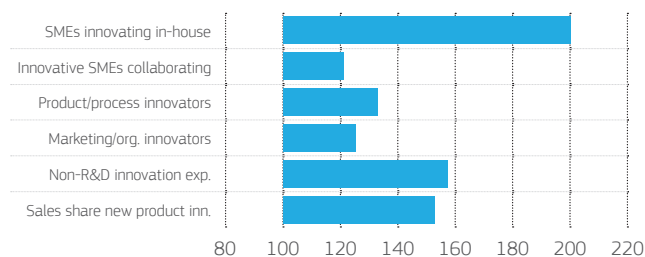
Portugal	Performance relative to EU 2010 in		Relative to EU 2017 in
	2010	2017	2017
SUMMARY INNOVATION INDEX	86.4	84.9	80.5
Human resources	123.1	100.0	83.8
New doctorate graduates	200.0	131.0	94.0
Population with tertiary education	56.7	76.1	67.1
Lifelong learning	108.3	90.6	88.8
Attractive research systems	81.4	120.9	106.4
International scientific co-publications	146.0	301.2	185.2
Most cited publications	86.6	85.8	82.6
Foreign doctorate students	51.6	108.9	98.3
Innovation-friendly environment	104.0	178.2	133.2
Broadband penetration	144.4	355.6	200.0
Opportunity-driven entrepreneurship	80.0	73.0	67.8
Finance and support	80.3	70.1	65.1
R&D expenditure in the public sector	92.9	85.8	89.0
Venture capital expenditures	64.0	50.0	41.0
Firm investments	94.5	83.5	74.7
R&D expenditure in the business sector	61.6	49.3	44.3
Non-R&D innovation expenditures	95.6	90.0	82.4
Enterprises providing ICT training	128.6	114.3	100.0
Innovators	127.8	99.9	116.1
SMEs product/process innovations	154.2	129.9	158.8
SMEs marketing/organisational innovations	113.2	92.7	112.0
SMEs innovating in-house	117.6	78.8	84.4
Linkages	70.0	54.9	54.3
Innovative SMEs collaborating with others	121.4	65.7	65.4
Public-private co-publications	56.8	57.3	56.8
Private co-funding of public R&D exp.	32.5	41.2	40.6
Intellectual assets	64.5	74.0	73.4
PCT patent applications	16.5	25.7	26.8
Trademark applications	75.8	115.9	102.5
Design applications	101.0	87.8	91.0
Employment impacts	49.2	82.8	82.3
Employment in knowledge-intensive activities	44.2	63.6	57.6
Employment fast-growing enterprises	52.9	96.5	103.2
Sales impacts	70.3	44.9	43.1
Medium and high tech product exports	48.3	54.1	51.0
Knowledge-intensive services exports	47.4	47.6	45.4
Sales of new-to-market/firm innovations	122.8	30.9	30.6

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.

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

Provisional CIS 2016 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 and the employment share in high and medium high-tech manufacturing are well below the EU average

	PT	EU
Performance and structure of the economy		
GDP per capita (PPS)	22,000	28,600
Average annual GDP growth (%)	2.1	2.2
Employment share Manufacturing (NACE C) (%)	17.0	15.5
of which High and Medium high-tech (%)	18.0	37.2
Employment share Services (NACE G-N) (%)	41.0	41.6
of which Knowledge-intensive services (%)	31.0	35.0
Turnover share SMEs (%)	n/a	38.0
Turnover share large enterprises (%)	n/a	44.4
Foreign-controlled enterprises – share of value added (%)	10.2	12.5
Business and entrepreneurship		
Enterprise births (10+ employees) (%)	1.7	1.5
Total Entrepreneurial Activity (TEA) (%)	8.8	6.6
FDI net inflows (% GDP)	3.8	3.6
Top R&D spending enterprises per 10 mln population	4.8	19.7
Buyer sophistication (1 to 7 best)	3.6	3.7
Governance and policy framework		
Ease of starting a business (0 to 100 best)	77.0	76.9
Basic-school entrepren. education and training (1 to 5 best)	2.8	1.9
Govt. procurement of advanced tech products (1 to 7 best)	3.6	3.5
Rule of law (-2.5 to 2.5 best)	1.1	1.2
Demography		
Population size (millions)	10.3	510.1
Average annual population growth (%)	-0.3	0.3
Population density (inhabitants/km ²)	112.9	117.1

EU targets for 2020

Indicator	2013	Latest	Target ¹
Gross domestic expenditure on R&D (% of GDP)	1.33	1.27	2.70
Tertiary educational attainment (% of population aged 30-34)	30.0	33.9	40.0

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

RIO country report:

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

European Semester country report:

<https://ec.europa.eu/info/sites/info/files/2018-european-semester-country-report-portugal-en.pdf>