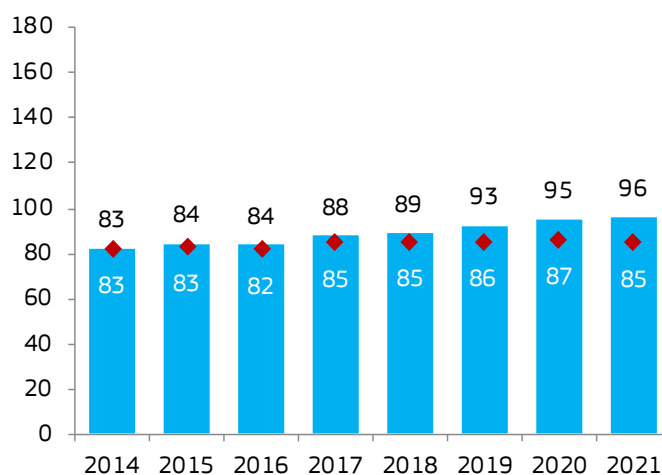




Spain is a Moderate Innovator.

Over time, performance relative to the EU has increased.



■ 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.

	ES	EU
Performance and structure of the economy		
GDP per capita (PPS)	28,300	30,800
Average annual GDP growth (%)	-5.3	-2.5
Employment share Manufacturing (NACE C) (%)	12.6	16.5
of which High and Medium high-tech (%)	31.8	37.9
Employment share Services (NACE G-N) (%)	48.5	41.2
of which Knowledge-intensive services (%)	31.4	35.1
Turnover share SMEs (%)	38.4	36.5
Turnover share large enterprises (%)	40.0	45.7
Foreign-controlled enterprises – share of value added (%)	9.8	11.8
Business and entrepreneurship		
Enterprise births (10+ employees) (%)	1.4	1.0
Total Entrepreneurial Activity (TEA) (%)	6.2	6.7
FDI net inflows (% GDP)	2.7	2.0
Top R&D spending enterprises per 10 million population	4.4	16.2
Buyer sophistication (1 to 7 best)	3.5	3.7
Innovation profiles		
In-house product innovators with market novelties	6.2	10.7
In-house product innovators without market novelties	7.1	12.3
In-house business process innovators	10.6	11.0
Innovators that do not develop innovations themselves	3.5	11.6
Innovation active non-innovators	2.8	3.3
Non-innovators with potential to innovate	43.2	19.9
Non-innovators without disposition to innovate	26.6	31.3
Governance and policy framework		
Ease of starting a business (0 to 100 best)	77.8	76.5
Basic school entrepreneurial education and training	2.0	2.0
Govt. procurement of advanced tech. products	3.2	3.5
Rule of law (-2.5 to 2.5 best)	1.0	1.1
Climate change indicators		
Circular material use rate	9.6	11.7
Greenhouse gas emissions intensity of energy consumption	83.8	86.6
Eco-Innovation Index	104.0	100.0
Demography		
Population size	47.0	446.7
Average annual population growth (%)	0.7	0.1
Population density	93.2	108.8

Spain's strengths are in *Human resources*, *Digitalisation*, and *Environmental sustainability*. The top-3 indicators include Doctorate graduates, Resource productivity, and Sales of innovative products.

Recent performance has not changed. Improvements for Tertiary education, Non-R&D innovation expenditures, Innovation expenditures per employee, Product innovators, and Job-to-job mobility of HRST, have been offset by reduced performance for Business process innovators, PCT patent, Trademark and Design applications, and Environment-related technologies.

Spain has an above average share of Non-innovators with potential to innovate and is showing close to average scores on the Climate change related indicators.

Spain	Relative to EU 2021 in 2021	Relative to EU 2014 in 2014	Relative to EU 2021 in 2021
SUMMARY INNOVATION INDEX	85.3	82.6	96.0
Human resources	139.8	103.9	148.1
Doctorate graduates	164.9	77.0	146.0
Population with tertiary education	145.5	146.3	187.6
Lifelong learning	98.0	102.2	107.8
Attractive research systems	90.9	103.8	102.3
International scientific co-publications	88.4	88.5	115.9
Most cited publications	92.7	93.1	91.1
Foreign doctorate students	91.5	145.5	108.6
Digitalisation	127.2	107.6	176.0
Broadband penetration	130.2	100.0	197.5
People with above basic overall digital skills	122.7	116.7	150.0
Finance and support	72.6	81.3	86.5
R&D expenditures in the public sector	65.5	75.4	63.2
Venture capital expenditures	102.6	85.3	172.5
Government support for business R&D	50.1	86.6	58.0
Firm investments	52.1	49.0	62.9
R&D expenditure in the business sector	46.1	50.4	51.2
Non-R&D Innovation expenditures	71.0	42.4	80.6
Innovation expenditures per employee	57.8	52.9	76.3
Use of information technologies	94.2	102.7	108.9
Enterprises providing ICT training	100.0	113.3	100.0
Employed ICT specialists	89.3	90.5	119.0
Innovators	30.5	33.4	41.8
Product innovators (SMEs)	28.9	13.0	40.8
Business process innovators (SMEs)	32.0	51.4	42.6
Linkages	88.5	91.2	119.3
Innovative SMEs collaborating with others	52.1	63.9	76.4
Public-private co-publications	108.0	95.3	121.1
Job-to-job mobility of HRST	103.6	107.7	148.7
Intellectual assets	79.9	78.7	69.2
PCT patent applications	43.3	49.4	37.5
Trademark applications	112.0	115.5	117.6
Design applications	72.3	68.4	49.5
Employment impacts	54.5	65.5	55.5
Employment in knowledge-intensive activities	80.5	86.7	88.0
Employment in innovative enterprises	33.6	50.5	32.4
Sales impacts	74.4	70.5	75.8
Medium and high tech goods exports	72.7	79.1	79.7
Knowledge-intensive services exports	28.0	27.4	29.6
Sales of innovative products	144.4	110.3	125.5
Environmental sustainability	114.3	105.8	119.0
Resource productivity	159.3	142.5	236.0
Air emissions by fine particulate matter	94.0	93.2	100.0
Environment-related technologies	98.3	100.2	73.8

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.