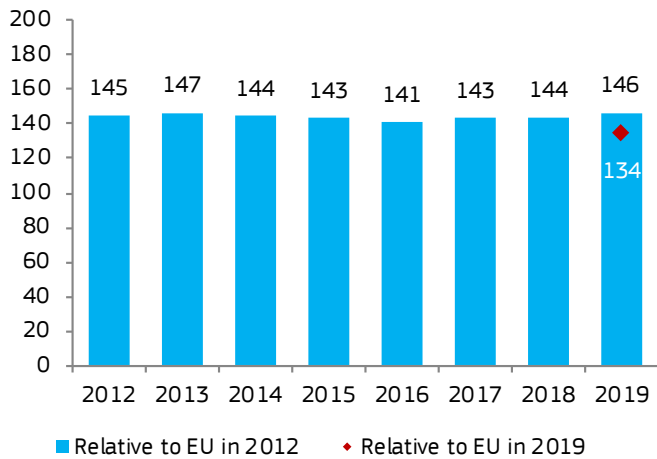


Denmark is an Innovation Leader.

Over time, performance has remained the same relative to that of the EU in 2012.



Attractive research systems, Innovation-friendly environment and Human resources are the strongest innovation dimensions. Denmark scores particularly well on Public-private co-publications, International scientific co-publications, Lifelong learning, and Opportunity-driven entrepreneurship. Sales impacts and Innovators are the weakest innovation dimensions. Low-scoring indicators include Sales of new-to-market and new-to-firm product innovations, Non-R&D innovation expenditures, Private co-funding of public R&D expenditures, and SMEs innovating in-house.

Structural differences with the EU are shown in the table below. Denmark shows the highest positive difference to the EU in Top R&D spending enterprises, Basic-school entrepreneurial education and training and GDP per capita, and the biggest negative difference in Enterprise births, FDI net inflows and Employment share in manufacturing.

Denmark	Relative to EU 2019 in 2019	Performance relative to EU 2012 in 2012	Performance relative to EU 2012 in 2019
SUMMARY INNOVATION INDEX	134.5	144.7	146.4
Human resources	179.7	210.0	206.9
New doctorate graduates	177.3	176.9	195.2
Population with tertiary education	141.6	176.9	180.2
Lifelong learning	233.0	287.8	251.1
Attractive research systems	196.6	184.9	224.6
International scientific co-publications	277.1	278.8	406.9
Most cited publications	146.2	155.1	146.3
Foreign doctorate students	198.5	165.2	228.8
Innovation-friendly environment	189.5	256.1	329.6
Broadband penetration	178.3	250.0	410.0
Opportunity-driven entrepreneurship	202.3	260.2	275.6
Finance and support	145.4	142.9	167.9
R&D expenditure in the public sector	165.3	144.0	162.3
Venture capital expenditures	122.6	141.2	177.3
Firm investments	107.5	130.1	139.6
R&D expenditure in the business sector	135.3	155.9	155.0
Non-R&D innovation expenditures	43.6	52.4	61.0
Enterprises providing ICT training	144.4	176.9	200.0
Innovators	96.9	107.9	86.6
SMEs product/process innovations	98.0	121.0	97.6
SMEs marketing/organizational innovations	117.6	108.3	96.5
SMEs innovating in-house	75.4	94.9	65.7
Linkages	149.7	152.9	154.1
Innovative SMEs collaborating with others	144.0	174.4	142.9
Public-private co-publications	324.9	322.6	367.3
Private co-funding of public R&D exp.	70.8	69.5	71.5
Intellectual assets	147.1	136.6	137.4
PCT patent applications	132.7	126.2	123.2
Trademark applications	132.9	125.5	141.4
Design applications	183.5	160.0	153.9
Employment impacts	109.7	138.3	118.3
Employment in knowledge-intensive activities	121.3	128.4	131.1
Employment fast-growing enterprises	100.3	146.3	108.1
Sales impacts	74.3	98.8	73.8
Medium and high-tech product exports	85.6	69.1	94.9
Knowledge-intensive services exports	100.5	122.7	103.8
Sales of new-to-market/firm innovations	24.8	105.3	20.7

The colours show normalised performance in 2019 relative to that of the EU in 2019: dark green: above 125%; light green: between 95% and 125%; yellow: between 50% and 95%; orange: below 50%. Normalised performance uses the data after a possible imputation of missing data and transformation of the data.

	DK	EU
Performance and structure of the economy		
GDP per capita (PPS)	38,400	29,100
Average annual GDP growth (%)	2.38	1.84
Employment share manufacturing (NACE C) (%)	11.7	16.6
of which High and medium high-tech (%)	43.2	37.5
Employment share services (NACE G-N) (%)	41.1	41.4
of which Knowledge-intensive services (%)	35.1	34.3
Turnover share SMEs (%)	42.8	38.3
Turnover share large enterprises (%)	39.2	43.2
Foreign-controlled enterprises – share of value added (%)	10.6	11.1
Business and entrepreneurship		
Enterprise births (10+ employees) (%)	0.4	1.1
Total Entrepreneurial Activity (TEA) (%)	5.5	6.7
FDI net inflows (% GDP)	1.3	2.6
Top R&D spending enterprises per 10 million population	68.5	16.2
Buyer sophistication (1 to 7 best)	3.9	3.7
Governance and policy framework		
Ease of starting a business (0 to 100 best)	85.0	76.5
Basic-school entrepreneurial education and training (1 to 5 best)	3.1	1.9
Govt. procurement of advanced technology products (1 to 7 best)	3.5	3.5
Rule of law (-2.5 to 2.5 best)	1.9	1.1
Demography		
Population size (millions)	5.8	446.2
Average annual population growth (%)	0.50	0.14
Population density (inhabitants/km ²)	137.2	108.6

EU targets for 2020

Indicator	2015	Latest	Target ¹
Gross domestic expenditure on R&D (% of GDP)	3.06	3.03	3.00
Tertiary educational attainment (% of population aged 30-34)	45.7	49.1	40.0

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

European Semester country report and country specific recommendations:

https://ec.europa.eu/info/publications/2020-european-semester-country-reports_en

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