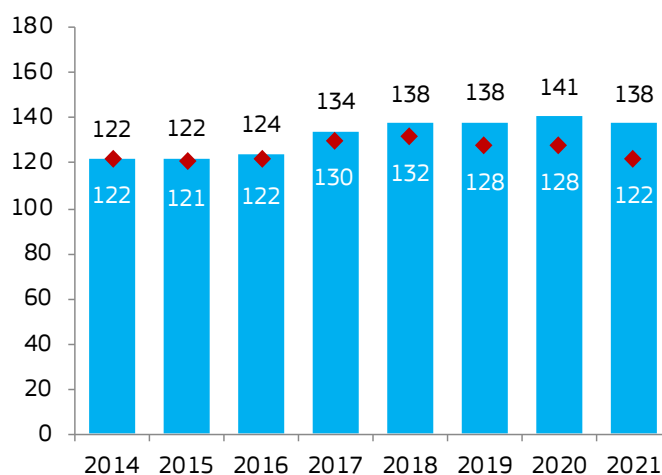




The **United Kingdom** is a **Strong Innovator**. Over time, performance relative to the EU has remained the same.



■ 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

	UK	EU
Performance and structure of the economy		
GDP per capita (PPS)	32,600	30,800
Average annual GDP growth (%)	0.7	-2.5
Employment share Manufacturing (NACE C) (%)	9.4	16.5
of which High and Medium high-tech (%)	15.9	37.9
Employment share Services (NACE G-N) (%)	42.8	41.2
of which Knowledge-intensive services (%)	44.2	35.1
Turnover share SMEs (%)	n/a	36.5
Turnover share large enterprises (%)	n/a	45.7
Foreign-controlled enterprises – share of value added (%)	14.8	11.8
Business and entrepreneurship		
Enterprise births (10+ employees) (%)	1.6	1.0
Total Entrepreneurial Activity (TEA) (%)	8.7	6.7
FDI net inflows (% GDP)	4.0	2.0
Top R&D spending enterprises per 10 million population	0.0	16.2
Buyer sophistication (1 to 7 best)	4.7	3.7
Innovation profiles		
In-house product innovators with market novelties	n/a	10.7
In-house product innovators without market novelties	n/a	12.3
In-house business process innovators	n/a	11.0
Innovators that do not develop innovations themselves	n/a	11.6
Innovation active non-innovators	n/a	3.3
Non-innovators with potential to innovate	n/a	19.9
Non-innovators without disposition to innovate	n/a	31.3
Governance and policy framework		
Ease of starting a business (0 to 100 best)	83.4	76.5
Basic school entrepreneurial education and training	2.1	2.0
Govt. procurement of advanced tech. products	3.8	3.5
Rule of law (-2.5 to 2.5 best)	1.6	1.1
Climate change indicators		
Circular material use rate	16.2	11.7
Greenhouse gas emissions intensity of energy consumption	84.7	86.6
Eco-Innovation Index	118.0	100.0
Demography		
Population size	66.6	446.7
Average annual population growth (%)	0.6	0.1
Population density	182.1	108.8

The United Kingdom's strengths are in *Linkages*, *Attractive research systems* and *Human resources*. The top-3 indicators include Foreign doctorate students, Doctorate graduates, and Innovative SMEs collaborating with others.

The recent decline in innovation performance is the result of reduced performance for several of the indicators using innovation survey data, PCT patent applications, Trademark and Design applications, and Environment-related technologies.

The United Kingdom is showing above average scores on the Climate change related indicators.

United Kingdom	Relative to EU 2021 in 2021	Relative to EU 2014 in 2014	Relative to EU 2021 in 2021
SUMMARY INNOVATION INDEX	122.3	122.2	137.7
Human resources	167.4	168.2	177.4
Doctorate graduates	203.8	157.4	180.4
Population with tertiary education	150.0	181.8	193.4
Lifelong learning	140.4	171.1	154.4
Attractive research systems	161.4	173.8	181.6
International scientific co-publications	132.9	131.5	174.3
Most cited publications	149.1	140.3	146.5
Foreign doctorate students	222.8	297.9	264.6
Digitalisation	125.8	126.9	174.1
Broadband penetration	88.5	89.4	134.2
People with above basic overall digital skills	181.8	172.2	222.2
Finance and support	152.8	103.7	182.1
R&D expenditures in the public sector	100.0	64.9	96.5
Venture capital expenditures	180.8	154.6	304.1
Government support for business R&D	184.4	120.9	213.4
Firm investments	79.2	62.7	95.6
R&D expenditure in the business sector	110.6	74.8	122.8
Non-R&D Innovation expenditures	54.2	41.6	61.6
Innovation expenditures per employee	73.2	67.6	96.7
Use of information technologies	157.3	154.2	181.7
Enterprises providing ICT training	153.3	126.7	153.3
Employed ICT specialists	160.7	185.7	214.3
Innovators	45.4	93.7	62.1
Product innovators (SMEs)	81.9	107.7	115.6
Business process innovators (SMEs)	11.2	81.4	14.9
Linkages	175.7	220.2	236.9
Innovative SMEs collaborating with others	201.7	279.0	295.5
Public-private co-publications	159.9	154.1	179.3
Job-to-job mobility of HRST	166.1	228.2	238.5
Intellectual assets	87.1	84.9	75.5
PCT patent applications	96.9	96.4	84.1
Trademark applications	87.5	99.0	91.8
Design applications	75.5	61.0	51.7
Employment impacts	149.8	142.2	152.6
Employment in knowledge-intensive activities	170.7	158.7	186.7
Employment in innovative enterprises	133.1	130.5	128.5
Sales impacts	115.5	110.5	117.6
Medium and high tech goods exports	90.8	84.2	99.5
Knowledge-intensive services exports	127.7	141.4	135.2
Sales of innovative products	138.6	108.5	120.5
Environmental sustainability	77.5	90.0	80.7
Resource productivity	44.6	75.4	66.1
Air emissions by fine particulate matter	87.7	94.6	93.2
Environment-related technologies	97.6	92.9	73.3

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.