

Regional Innovation Scoreboard 2021

Région de Bruxelles-Capitale / Brussels Hoofdstedelijk Gewest (BE1)

	Data	Normalised score	Relative to	
			BE	EU
Tertiary education	53.8	0.915	120	160
Lifelong learning	10.7	0.398	130	99
International scientific co-publications	5,225	1.000	133	178
Most-cited scientific publications	11.6	0.652	90	120
Above average digital skills	33.6	0.586	99	111
R&D expenditures public sector	0.77	0.518	97	107
R&D expenditures business sector	1.22	0.438	65	84
Non-R&D innovation expenditures	±	0.524	±	±
Innovation expenditures per person employed	±	1.000	±	±
Employed ICT specialists	7.4	1.000	152	200
Product innovators	±	0.689	±	±
Business process innovators	±	0.891	±	±
Innovative SMEs collaborating	±	1.000	±	±
Public-private co-publications	799.4	1.000	153	202
PCT patent applications	1.70	0.436	74	70
Trademark applications	7.25	0.534	117	117
Design applications	1.86	0.392	82	68
Employment knowledge-intensive activities	17.2	0.681	113	114
Employment innovative enterprises	±	0.836	±	±
Sales of innovative products	±	0.965	±	±
Air emissions by fine particulates	13.1	0.521	97	106
Average score	--	0.713	--	--
Country EIS-RIS correction factor	--	1.018	--	--
Regional Innovation Index 2021	--	0.726	--	--
RII 2021 (same year)	--	--	106.3	135.1
RII 2021 (cf. to EU 2014)	--	--	--	155.2
Regional Innovation Index 2014	--	0.610	--	--
RII 2014 (same year)	--	--	104.3	130.3
RII - change between 2014 and 2021	--	24.9	--	--

± Relative-to-EU scores are not shown as these would allow recalculating confidential regional CIS data.

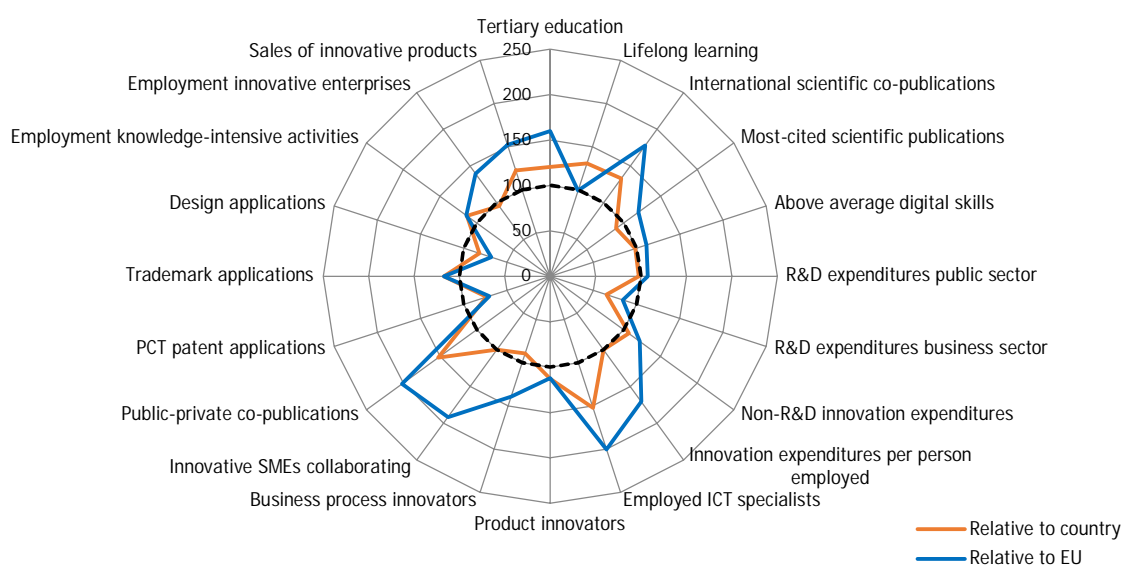
Région de Bruxelles-Capitale / Brussels Hoofdstedelijk Gewest (BE1) is an Innovation Leader. Innovation performance has increased over time (24.9%).

The table on the left shows the normalised scores per indicator and relative results compared to Belgium and the EU. The table also shows the Regional Innovation Index (RII) in 2021 compared to that of Belgium and the EU in 2021, the RII in 2021 compared to that of the EU in 2014, and performance change over time between 2014 and 2021.

The radar graph shows relative strengths compared to Belgium (orange line) and the EU (blue line), showing relative strengths (e.g. Public-private co-publications) and weaknesses (e.g. Design applications).

The table below shows data highlighting possible structural differences, e.g. Population density (above average) and Employment in Manufacturing (below average).

	BE1	BE	EU
Share of employment in:			
Agriculture & Mining (A-B)	n/a	1.0	4.6
Manufacturing (C)	4.7	12.5	16.4
Utilities & Construction (D-F)	7.2	8.2	8.2
Services (G-N)	73.1	69.0	62.9
Public administration (O-U)	14.8	9.3	7.1
Average number of employed persons per enterprise	n/a	4.4	5.2
GDP per capita (PPS)	63,000	36,700	31,200
GDP per capita growth (PPS)	1.44	2.54	3.21
Population density	7,527	377	109
Urbanisation	100.0	86.9	75.3
Population size (000s)	1,220	11,520	446,450



Vlaams Gewest (BE2)

	Data	Normalised score	Relative to	
			BE	EU
Tertiary education	49.3	0.809	106	141
Lifelong learning	8.6	0.320	105	80
International scientific co-publications	2,436	0.800	106	142
Most-cited scientific publications	13.3	0.759	104	140
Above average digital skills	34.4	0.603	101	115
R&D expenditures public sector	0.85	0.573	108	119
R&D expenditures business sector	2.00	0.718	107	138
Non-R&D innovation expenditures	±	0.477	±	±
Innovation expenditures per person employed	±	0.986	±	±
Employed ICT specialists	5.1	0.674	103	135
Product innovators	±	0.600	±	±
Business process innovators	±	1.000	±	±
Innovative SMEs collaborating	±	1.000	±	±
Public-private co-publications	404.3	0.714	109	144
PCT patent applications	3.62	0.637	108	103
Trademark applications	6.15	0.452	99	99
Design applications	3.52	0.539	113	94
Employment knowledge-intensive activities	16.1	0.626	104	105
Employment innovative enterprises	±	0.909	±	±
Sales of innovative products	±	0.763	±	±
Air emissions by fine particulates	13.5	0.501	93	102
Average score	--	0.689	--	--
Country EIS-RIS correction factor	--	1.018	--	--
Regional Innovation Index 2021	--	0.701	--	--
RII 2021 (same year)	--	--	102.7	130.5
RII 2021 (cf. to EU 2014)	--	--	--	149.8
Regional Innovation Index 2014	--	0.603	--	--
RII 2014 (same year)	--	--	103.2	128.9
RII - change between 2014 and 2021	--	21.0	--	--

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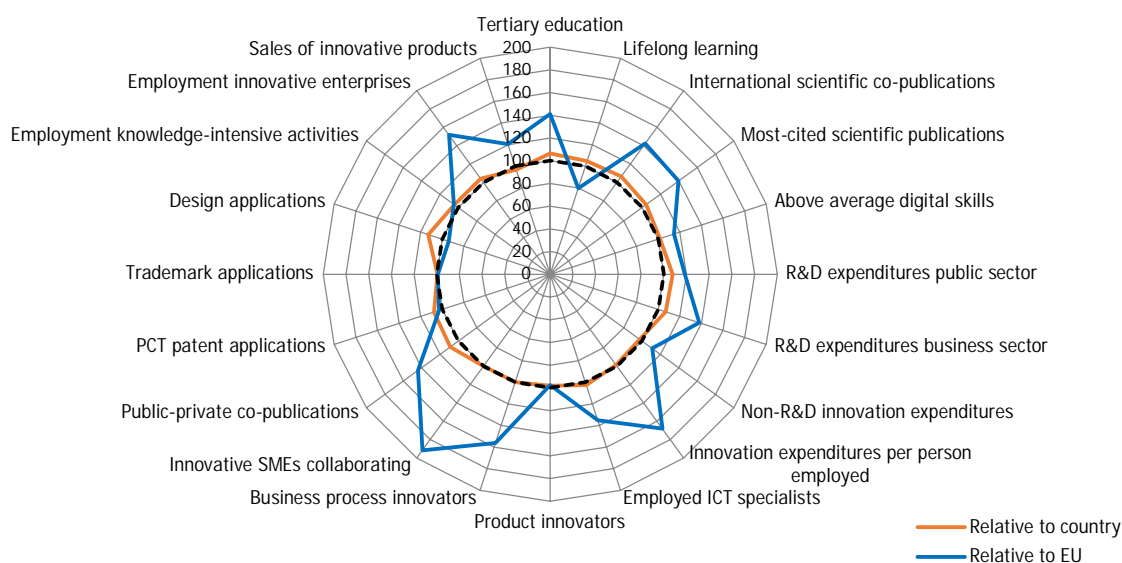
Vlaams Gewest (BE2) is an Innovation Leader -. Innovation performance has increased over time (21%).

The table on the left shows the normalised scores per indicator and relative results compared to Belgium and the EU. The table also shows the Regional Innovation Index (RII) in 2021 compared to that of Belgium and the EU in 2021, the RII in 2021 compared to that of the EU in 2014, and performance change over time between 2014 and 2021.

The radar graph shows relative strengths compared to Belgium (orange line) and the EU (blue line), showing relative strengths (e.g. Innovative SMEs collaborating) and weaknesses (e.g. Lifelong learning).

The table below shows data highlighting possible structural differences, e.g. Population density (above average) and Employment in Agriculture & Mining (below average).

	BE2	BE	EU
Share of employment in:			
Agriculture & Mining (A-B)	1.0	1.0	4.6
Manufacturing (C)	14.5	12.5	16.4
Utilities & Construction (D-F)	8.2	8.2	8.2
Services (G-N)	69.2	69.0	62.9
Public administration (O-U)	7.0	9.3	7.1
Average number of employed persons per enterprise	n/a	4.4	5.2
GDP per capita (PPS)	37,400	36,700	31,200
GDP per capita growth (PPS)	2.71	2.54	3.21
Population density	493	377	109
Urbanisation	91.9	86.9	75.3
Population size (000s)	6,640	11,520	446,450



Regional Innovation Scoreboard 2021

Région wallonne (BE3)

	Data	Normalised score	Relative to	
			BE	EU
Tertiary education	40.7	0.604	79	105
Lifelong learning	6.6	0.246	80	61
International scientific co-publications	1,264	0.576	77	103
Most-cited scientific publications	10.1	0.554	76	102
Above average digital skills	32.8	0.568	96	108
R&D expenditures public sector	0.61	0.408	77	84
R&D expenditures business sector	2.04	0.732	109	141
Non-R&D innovation expenditures	±	0.530	±	±
Innovation expenditures per person employed	±	1.000	±	±
Employed ICT specialists	3.9	0.503	77	101
Product innovators	±	0.618	±	±
Business process innovators	±	0.789	±	±
Innovative SMEs collaborating	±	1.000	±	±
Public-private co-publications	200.3	0.503	77	101
PCT patent applications	2.96	0.577	98	93
Trademark applications	5.51	0.405	89	89
Design applications	1.57	0.360	75	63
Employment knowledge-intensive activities	13.8	0.510	85	86
Employment innovative enterprises	±	0.763	±	±
Sales of innovative products	±	0.776	±	±
Air emissions by fine particulates	11.2	0.613	114	125
Average score	--	0.602	--	--
Country EIS-RIS correction factor	--	1.018	--	--
Regional Innovation Index 2021	--	0.613	--	--
RII 2021 (same year)	--	--	89.7	114.0
RII 2021 (cf. to EU 2014)	--	--	--	130.9
Regional Innovation Index 2014	--	0.518	--	--
RII 2014 (same year)	--	--	88.7	110.7
RII - change between 2014 and 2021	--	20.2	--	--

± Relative-to-EU scores are not shown as these would allow recalculating confidential regional CIS data.

Région wallonne (BE3) is a Strong Innovator. Innovation performance has increased over time (20.2%).

The table on the left shows the normalised scores per indicator and relative results compared to Belgium and the EU. The table also shows the Regional Innovation Index (RII) in 2021 compared to that of Belgium and the EU in 2021, the RII in 2021 compared to that of the EU in 2014, and performance change over time between 2014 and 2021.

The radar graph shows relative strengths compared to Belgium (orange line) and the EU (blue line), showing relative strengths (e.g. Innovative SMEs collaborating) and weaknesses (e.g. Lifelong learning).

The table below shows data highlighting possible structural differences, e.g. Employment in Public administration (above average) and GDP per capita (below average).

	BE3	BE	EU
Share of employment in:			
Agriculture & Mining (A-B)	1.3	1.0	4.6
Manufacturing (C)	10.8	12.5	16.4
Utilities & Construction (D-F)	8.6	8.2	8.2
Services (G-N)	67.1	69.0	62.9
Public administration (O-U)	12.2	9.3	7.1
Average number of employed persons per enterprise	n/a	4.4	5.2
GDP per capita (PPS)	26,700	36,700	31,200
GDP per capita growth (PPS)	2.92	2.54	3.21
Population density	217	377	109
Urbanisation	73.8	86.9	75.3
Population size (000s)	3,660	11,520	446,450

