

Regional Innovation Scoreboard 2021

Piemonte (ITC1)

	Data	Normalised score	Relative to	
			IT	EU
Tertiary education	27.2	0.284	96	50
Lifelong learning	8.8	0.328	109	81
International scientific co-publications	1,323	0.589	112	105
Most-cited scientific publications	10.5	0.581	95	107
Above average digital skills	21.7	0.317	98	60
R&D expenditures public sector	0.33	0.214	65	44
R&D expenditures business sector	1.80	0.646	200	124
Non-R&D innovation expenditures	±	0.579	±	±
Innovation expenditures per person employed	±	0.632	±	±
Employed ICT specialists	3.7	0.467	106	94
Product innovators	±	0.766	±	±
Business process innovators	±	0.925	±	±
Innovative SMEs collaborating	±	0.720	±	±
Public-private co-publications	255.6	0.568	124	115
PCT patent applications	2.68	0.549	114	89
Trademark applications	5.85	0.430	84	94
Design applications	3.84	0.563	82	98
Employment knowledge-intensive activities	21.7	0.907	143	152
Employment innovative enterprises	±	0.800	±	±
Sales of innovative products	±	0.808	±	±
Air emissions by fine particulates	19.1	0.233	58	47
Average score	--	0.567	--	--
Country EIS-RIS correction factor	--	0.927	--	--
Regional Innovation Index 2021	--	0.526	--	--
RII 2021 (same year)	--	--	103.5	97.8
RII 2021 (cf. to EU 2014)	--	--	--	112.3
Regional Innovation Index 2014	--	0.409	--	--
RII 2014 (same year)	--	--	107.8	87.3
RII - change between 2014 and 2021	--	25.0	--	--

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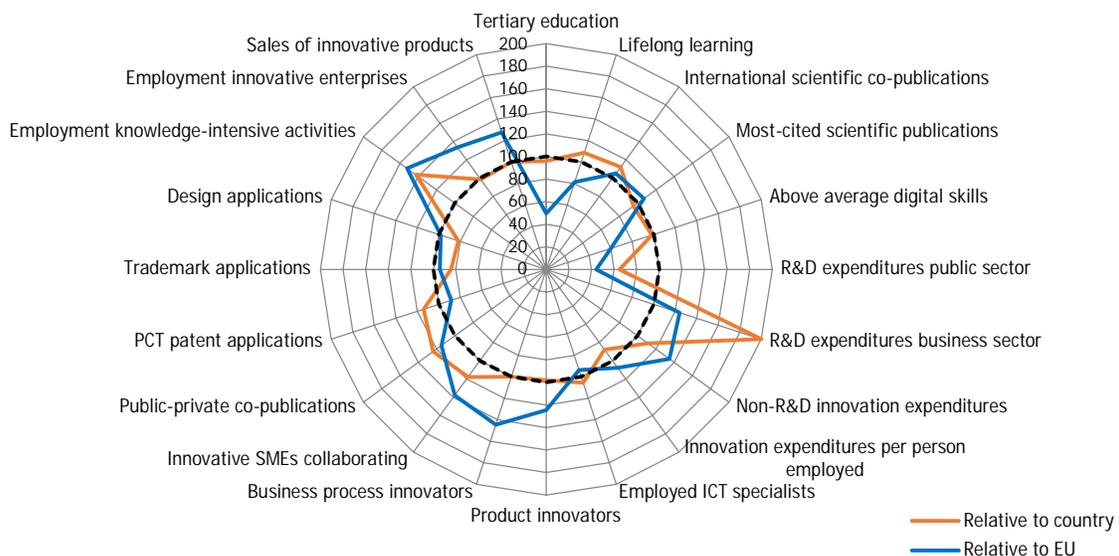
Piemonte (ITC1) is a Moderate Innovator +. Innovation performance has increased over time (25%).

The table on the left shows the normalised scores per indicator and relative results compared to Italy and the EU. The table also shows the Regional Innovation Index (RII) in 2021 compared to that of Italy 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 Italy (orange line) and the EU (blue line), showing relative strengths (e.g. Employment knowledge-intensive activities) and weaknesses (e.g. R&D expenditures public sector).

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

	ITC1	IT	EU
Share of employment in:			
Agriculture & Mining (A-B)	3.4	4.0	4.6
Manufacturing (C)	23.9	18.6	16.4
Utilities & Construction (D-F)	7.3	7.5	8.2
Services (G-N)	61.3	64.6	62.9
Public administration (O-U)	4.1	5.4	7.1
Average number of employed persons per enterprise	4.1	3.8	5.2
GDP per capita (PPS)	31,800	29,800	31,200
GDP per capita growth (PPS)	3.23	2.98	3.21
Population density	172	202	109
Urbanisation	73.9	81.8	75.3
Population size (000s)	4,310	59,640	446,450



Valle d'Aosta/Vallée d'Aoste (ITC2)

	Data	Normalised score	Relative to	
			IT	EU
Tertiary education	26.7	0.272	92	47
Lifelong learning	9.1	0.339	112	84
International scientific co-publications	536	0.375	71	67
Most-cited scientific publications	7.7	0.407	67	75
Above average digital skills	22.3	0.329	102	62
R&D expenditures public sector	0.10	0.055	17	11
R&D expenditures business sector	0.33	0.118	37	23
Non-R&D innovation expenditures	±	0.371	±	±
Innovation expenditures per person employed	±	0.000	±	±
Employed ICT specialists	4.3	0.554	125	111
Product innovators	±	0.587	±	±
Business process innovators	±	0.744	±	±
Innovative SMEs collaborating	±	0.163	±	±
Public-private co-publications	120.0	0.389	85	79
PCT patent applications	1.12	0.354	74	57
Trademark applications	3.50	0.256	50	56
Design applications	2.88	0.488	71	85
Employment knowledge-intensive activities	5.5	0.093	15	16
Employment innovative enterprises	±	0.000	±	±
Sales of innovative products	±	0.808	±	±
Air emissions by fine particulates	9.0	0.718	178	146
Average score	--	0.391	--	--
Country EIS-RIS correction factor	--	0.927	--	--
Regional Innovation Index 2021	--	0.362	--	--
RII 2021 (same year)	--	--	71.3	67.4
RII 2021 (cf. to EU 2014)	--	--	--	77.4
Regional Innovation Index 2014	--	0.293	--	--
RII 2014 (same year)	--	--	77.4	62.7
RII - change between 2014 and 2021	--	14.7	--	--

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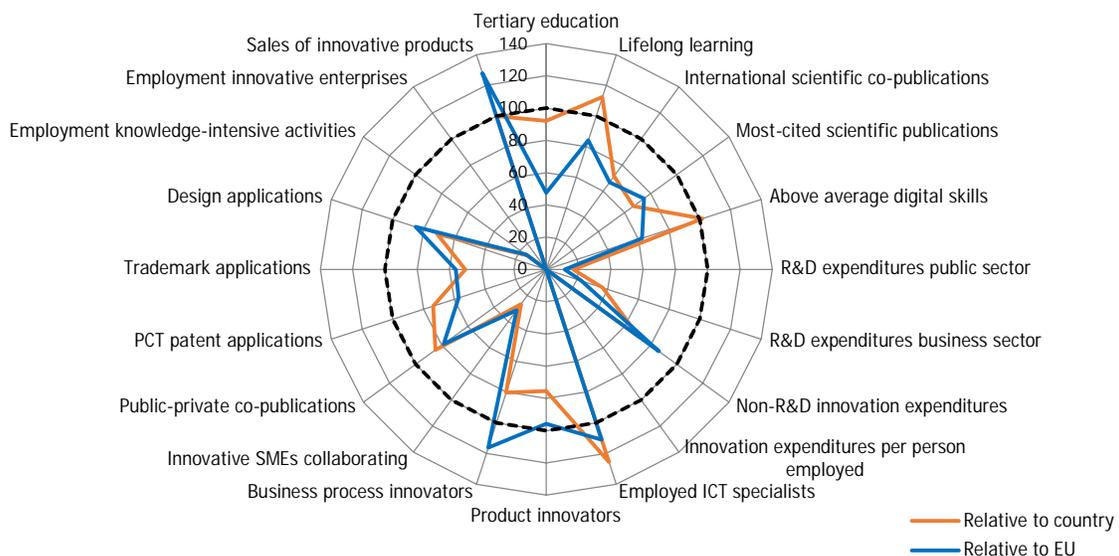
Valle d'Aosta/Vallée d'Aoste (ITC2) is an Emerging Innovator +. Innovation performance has increased over time (14.7%).

The table on the left shows the normalised scores per indicator and relative results compared to Italy and the EU. The table also shows the Regional Innovation Index (RII) in 2021 compared to that of Italy 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 Italy (orange line) and the EU (blue line), showing relative strengths (e.g. Business process innovators) and weaknesses (e.g. Innovation expenditures per person employed).

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

	ITC2	IT	EU
Share of employment in:			
Agriculture & Mining (A-B)	3.5	4.0	4.6
Manufacturing (C)	9.4	18.6	16.4
Utilities & Construction (D-F)	10.8	7.5	8.2
Services (G-N)	66.7	64.6	62.9
Public administration (O-U)	9.6	5.4	7.1
Average number of employed persons per enterprise	3.3	3.8	5.2
GDP per capita (PPS)	38,900	29,800	31,200
GDP per capita growth (PPS)	2.39	2.98	3.21
Population density	39	202	109
Urbanisation	49.9	81.8	75.3
Population size (000s)	130	59,640	446,450



Liguria (ITC3)

	Data	Normalised score	Relative to	
			IT	EU
Tertiary education	30.1	0.353	119	62
Lifelong learning	9.8	0.365	121	91
International scientific co-publications	2,023	0.729	139	130
Most-cited scientific publications	11.1	0.619	101	114
Above average digital skills	22.0	0.323	100	61
R&D expenditures public sector	0.59	0.394	119	81
R&D expenditures business sector	0.75	0.269	83	52
Non-R&D innovation expenditures	±	0.449	±	±
Innovation expenditures per person employed	±	0.000	±	±
Employed ICT specialists	3.3	0.418	95	84
Product innovators	±	0.648	±	±
Business process innovators	±	0.772	±	±
Innovative SMEs collaborating	±	0.606	±	±
Public-private co-publications	384.3	0.696	152	141
PCT patent applications	1.64	0.429	89	69
Trademark applications	4.73	0.347	68	76
Design applications	0.87	0.268	39	47
Employment knowledge-intensive activities	16.3	0.636	100	107
Employment innovative enterprises	±	0.000	±	±
Sales of innovative products	±	0.808	±	±
Air emissions by fine particulates	11.6	0.591	147	120
Average score	--	0.512	--	--
Country EIS-RIS correction factor	--	0.927	--	--
Regional Innovation Index 2021	--	0.474	--	--
RII 2021 (same year)	--	--	93.4	88.3
RII 2021 (cf. to EU 2014)	--	--	--	101.4
Regional Innovation Index 2014	--	0.342	--	--
RII 2014 (same year)	--	--	90.3	73.1
RII - change between 2014 and 2021	--	28.2	--	--

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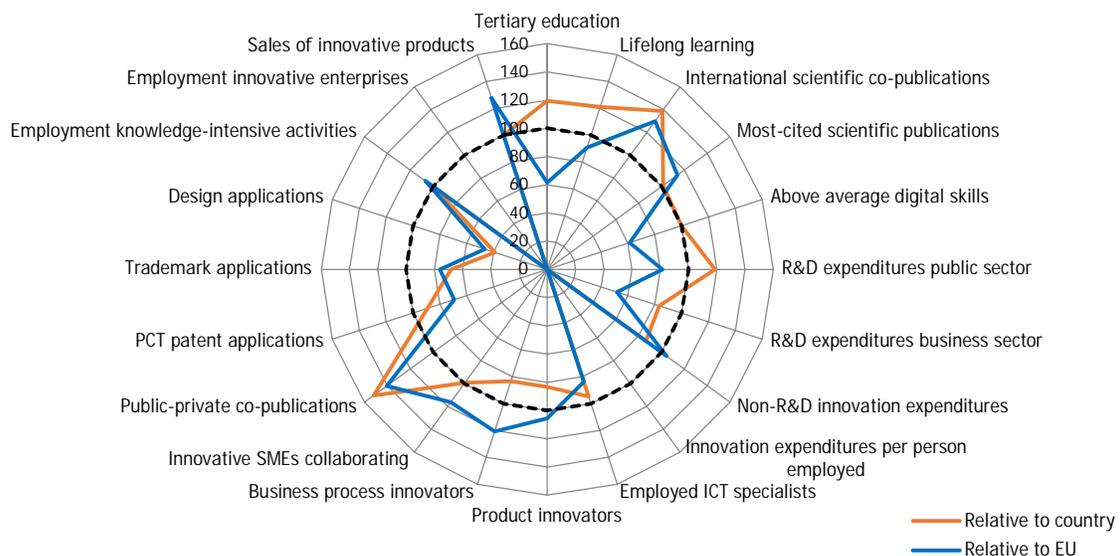
Liguria (ITC3) is a Moderate Innovator. Innovation performance has increased over time (28.2%).

The table on the left shows the normalised scores per indicator and relative results compared to Italy and the EU. The table also shows the Regional Innovation Index (RII) in 2021 compared to that of Italy 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 Italy (orange line) and the EU (blue line), showing relative strengths (e.g. Public-private co-publications) and weaknesses (e.g. Innovation expenditures per person employed).

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

	ITC3	IT	EU
Share of employment in:			
Agriculture & Mining (A-B)	1.9	4.0	4.6
Manufacturing (C)	11.5	18.6	16.4
Utilities & Construction (D-F)	8.0	7.5	8.2
Services (G-N)	72.5	64.6	62.9
Public administration (O-U)	6.2	5.4	7.1
Average number of employed persons per enterprise	3.3	3.8	5.2
GDP per capita (PPS)	32,300	29,800	31,200
GDP per capita growth (PPS)	2.64	2.98	3.21
Population density	284	202	109
Urbanisation	89.4	81.8	75.3
Population size (000s)	1,520	59,640	446,450



Lombardia (ITC4)

	Data	Normalised score	Relative to	
			IT	EU
Tertiary education	32.3	0.405	137	71
Lifelong learning	9.1	0.339	112	84
International scientific co-publications	1,579	0.644	122	115
Most-cited scientific publications	11.3	0.630	103	116
Above average digital skills	22.8	0.341	106	65
R&D expenditures public sector	0.28	0.180	54	37
R&D expenditures business sector	1.03	0.370	114	71
Non-R&D innovation expenditures	±	0.476	±	±
Innovation expenditures per person employed	±	0.747	±	±
Employed ICT specialists	4.7	0.611	138	123
Product innovators	±	0.829	±	±
Business process innovators	±	1.000	±	±
Innovative SMEs collaborating	±	0.627	±	±
Public-private co-publications	304.7	0.620	135	125
PCT patent applications	2.52	0.532	111	86
Trademark applications	8.99	0.662	130	145
Design applications	6.20	0.716	104	125
Employment knowledge-intensive activities	21.4	0.892	140	150
Employment innovative enterprises	±	0.870	±	±
Sales of innovative products	±	0.808	±	±
Air emissions by fine particulates	20.7	0.153	38	31
Average score	--	0.593	--	--
Country EIS-RIS correction factor	--	0.927	--	--
Regional Innovation Index 2021	--	0.550	--	--
RII 2021 (same year)	--	--	108.2	102.3
RII 2021 (cf. to EU 2014)	--	--	--	117.5
Regional Innovation Index 2014	--	0.419	--	--
RII 2014 (same year)	--	--	110.7	89.6
RII - change between 2014 and 2021	--	27.9	--	--

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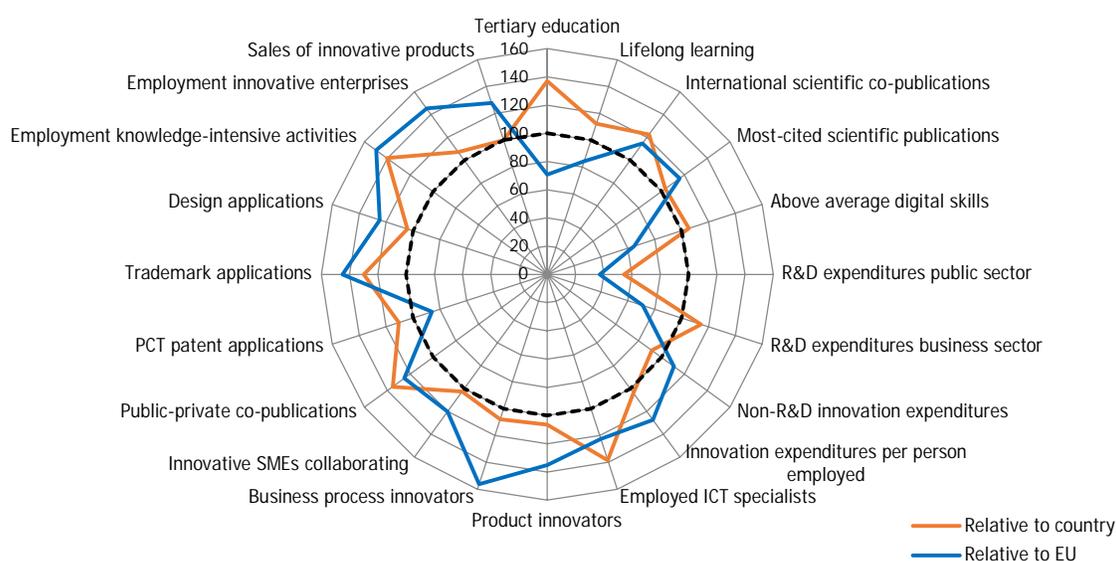
Lombardia (ITC4) is a Strong Innovator -. Innovation performance has increased over time (27.9%).

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The radar graph shows relative strengths compared to Italy (orange line) and the EU (blue line), showing relative strengths (e.g. Business process innovators) and weaknesses (e.g. R&D expenditures public sector).

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

	ITC4	IT	EU
Share of employment in:			
Agriculture & Mining (A-B)	1.5	4.0	4.6
Manufacturing (C)	24.4	18.6	16.4
Utilities & Construction (D-F)	6.9	7.5	8.2
Services (G-N)	64.5	64.6	62.9
Public administration (O-U)	2.6	5.4	7.1
Average number of employed persons per enterprise	4.9	3.8	5.2
GDP per capita (PPS)	39,700	29,800	31,200
GDP per capita growth (PPS)	3.05	2.98	3.21
Population density	436	202	109
Urbanisation	91.0	81.8	75.3
Population size (000s)	10,030	59,640	446,450



Regional Innovation Scoreboard 2021

Provincia Autonoma Bolzano/Bozen (ITH1)

	Data	Normalised score	Relative to	
			IT	EU
Tertiary education	25.0	0.232	78	40
Lifelong learning	10.1	0.376	125	94
International scientific co-publications	1,455	0.618	118	110
Most-cited scientific publications	13.2	0.754	124	139
Above average digital skills	22.3	0.329	102	62
R&D expenditures public sector	0.19	0.117	35	24
R&D expenditures business sector	0.53	0.190	59	37
Non-R&D innovation expenditures	±	0.558	±	±
Innovation expenditures per person employed	±	1.000	±	±
Employed ICT specialists	2.2	0.255	58	51
Product innovators	±	0.683	±	±
Business process innovators	±	0.938	±	±
Innovative SMEs collaborating	±	0.757	±	±
Public-private co-publications	210.3	0.515	112	104
PCT patent applications	1.51	0.412	86	66
Trademark applications	8.39	0.617	121	135
Design applications	4.58	0.615	89	107
Employment knowledge-intensive activities	9.6	0.299	47	50
Employment innovative enterprises	±	0.883	±	±
Sales of innovative products	±	0.808	±	±
Air emissions by fine particulates	11.7	0.588	146	120
Average score	--	0.550	--	--
Country EIS-RIS correction factor	--	0.927	--	--
Regional Innovation Index 2021	--	0.510	--	--
RII 2021 (same year)	--	--	100.4	94.8
RII 2021 (cf. to EU 2014)	--	--	--	108.9
Regional Innovation Index 2014	--	0.398	--	--
RII 2014 (same year)	--	--	105.1	85.1
RII - change between 2014 and 2021	--	23.8	--	--

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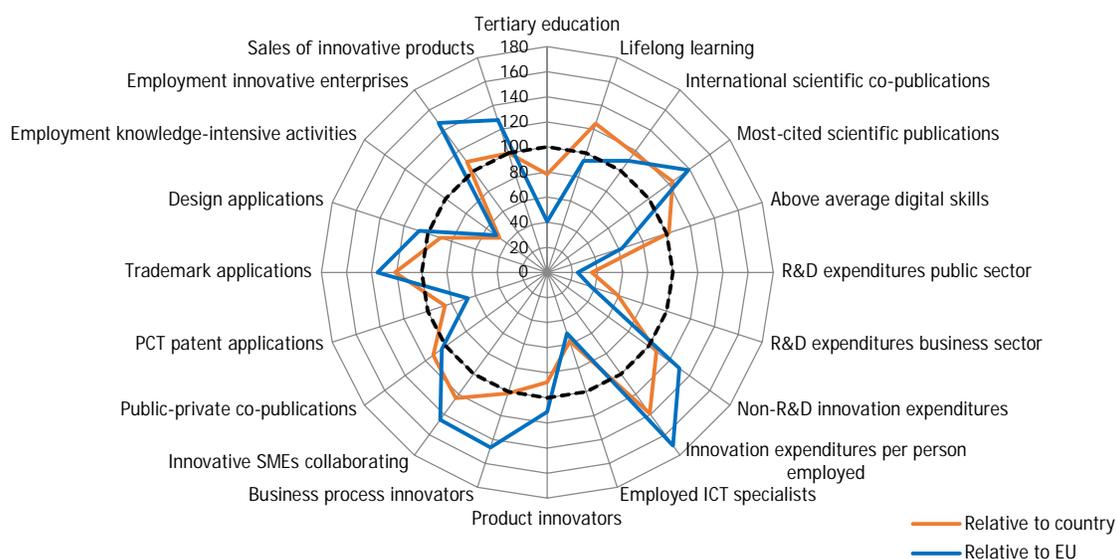
Provincia Autonoma Bolzano/Bozen (ITH1) is a Moderate Innovator +. Innovation performance has increased over time (23.8%).

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The radar graph shows relative strengths compared to Italy (orange line) and the EU (blue line), showing relative strengths (e.g. Innovation expenditures per person employed) and weaknesses (e.g. R&D expenditures public sector).

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

	ITH1	IT	EU
Share of employment in:			
Agriculture & Mining (A-B)	6.6	4.0	4.6
Manufacturing (C)	14.0	18.6	16.4
Utilities & Construction (D-F)	8.6	7.5	8.2
Services (G-N)	65.1	64.6	62.9
Public administration (O-U)	5.6	5.4	7.1
Average number of employed persons per enterprise	4.6	3.8	5.2
GDP per capita (PPS)	48,200	29,800	31,200
GDP per capita growth (PPS)	3.26	2.98	3.21
Population density	72	202	109
Urbanisation	56.2	81.8	75.3
Population size (000s)	530	59,640	446,450



Provincia Autonoma Trento (ITH2)

	Data	Normalised score	Relative to	
			IT	EU
Tertiary education	31.1	0.377	127	66
Lifelong learning	11.5	0.428	142	106
International scientific co-publications	3,539	0.964	183	172
Most-cited scientific publications	12.9	0.735	121	135
Above average digital skills	23.8	0.364	113	69
R&D expenditures public sector	0.90	0.608	183	126
R&D expenditures business sector	0.66	0.237	73	46
Non-R&D innovation expenditures	±	0.593	±	±
Innovation expenditures per person employed	±	0.782	±	±
Employed ICT specialists	3.6	0.456	103	91
Product innovators	±	0.761	±	±
Business process innovators	±	0.915	±	±
Innovative SMEs collaborating	±	0.846	±	±
Public-private co-publications	539.0	0.825	180	166
PCT patent applications	2.13	0.489	102	79
Trademark applications	6.20	0.456	90	100
Design applications	3.94	0.570	83	99
Employment knowledge-intensive activities	12.8	0.460	72	77
Employment innovative enterprises	±	0.840	±	±
Sales of innovative products	±	0.808	±	±
Air emissions by fine particulates	13.1	0.521	129	106
Average score	--	0.621	--	--
Country EIS-RIS correction factor	--	0.927	--	--
Regional Innovation Index 2021	--	0.576	--	--
RII 2021 (same year)	--	--	113.3	107.1
RII 2021 (cf. to EU 2014)	--	--	--	123.0
Regional Innovation Index 2014	--	0.436	--	--
RII 2014 (same year)	--	--	115.1	93.2
RII - change between 2014 and 2021	--	29.8	--	--

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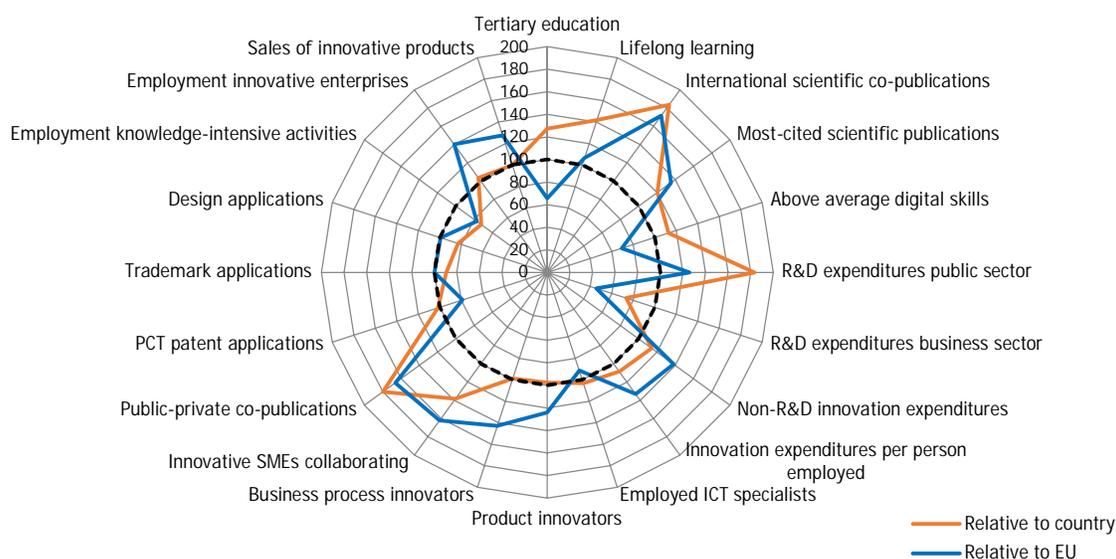
Provincia Autonoma Trento (ITH2) is a Strong Innovator -. Innovation performance has increased over time (29.8%).

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The radar graph shows relative strengths compared to Italy (orange line) and the EU (blue line), showing relative strengths (e.g. International scientific co-publications) and weaknesses (e.g. R&D expenditures business sector).

The table below shows data highlighting possible structural differences, e.g. GDP per capita (above average) and Population density (below average).

	ITH2	IT	EU
Share of employment in:			
Agriculture & Mining (A-B)	4.5	4.0	4.6
Manufacturing (C)	16.1	18.6	16.4
Utilities & Construction (D-F)	8.3	7.5	8.2
Services (G-N)	65.1	64.6	62.9
Public administration (O-U)	6.0	5.4	7.1
Average number of employed persons per enterprise	4.1	3.8	5.2
GDP per capita (PPS)	38,900	29,800	31,200
GDP per capita growth (PPS)	2.68	2.98	3.21
Population density	88	202	109
Urbanisation	61.8	81.8	75.3
Population size (000s)	550	59,640	446,450



Veneto (ITH3)

	Data	Normalised score	Relative to	
			IT	EU
Tertiary education	31.4	0.384	130	67
Lifelong learning	9.9	0.369	122	92
International scientific co-publications	1,458	0.619	118	110
Most-cited scientific publications	10.9	0.608	100	112
Above average digital skills	22.8	0.341	106	65
R&D expenditures public sector	0.37	0.242	73	50
R&D expenditures business sector	1.01	0.362	112	70
Non-R&D innovation expenditures	±	0.564	±	±
Innovation expenditures per person employed	±	0.758	±	±
Employed ICT specialists	2.5	0.293	66	59
Product innovators	±	0.917	±	±
Business process innovators	±	1.000	±	±
Innovative SMEs collaborating	±	0.721	±	±
Public-private co-publications	243.5	0.554	121	112
PCT patent applications	2.86	0.567	118	91
Trademark applications	9.63	0.710	139	155
Design applications	11.70	0.983	143	171
Employment knowledge-intensive activities	16.8	0.661	104	111
Employment innovative enterprises	±	0.910	±	±
Sales of innovative products	±	0.808	±	±
Air emissions by fine particulates	21.1	0.138	34	28
Average score	--	0.596	--	--
Country EIS-RIS correction factor	--	0.927	--	--
Regional Innovation Index 2021	--	0.552	--	--
RII 2021 (same year)	--	--	108.7	102.8
RII 2021 (cf. to EU 2014)	--	--	--	118.0
Regional Innovation Index 2014	--	0.417	--	--
RII 2014 (same year)	--	--	109.9	89.0
RII - change between 2014 and 2021	--	29.0	--	--

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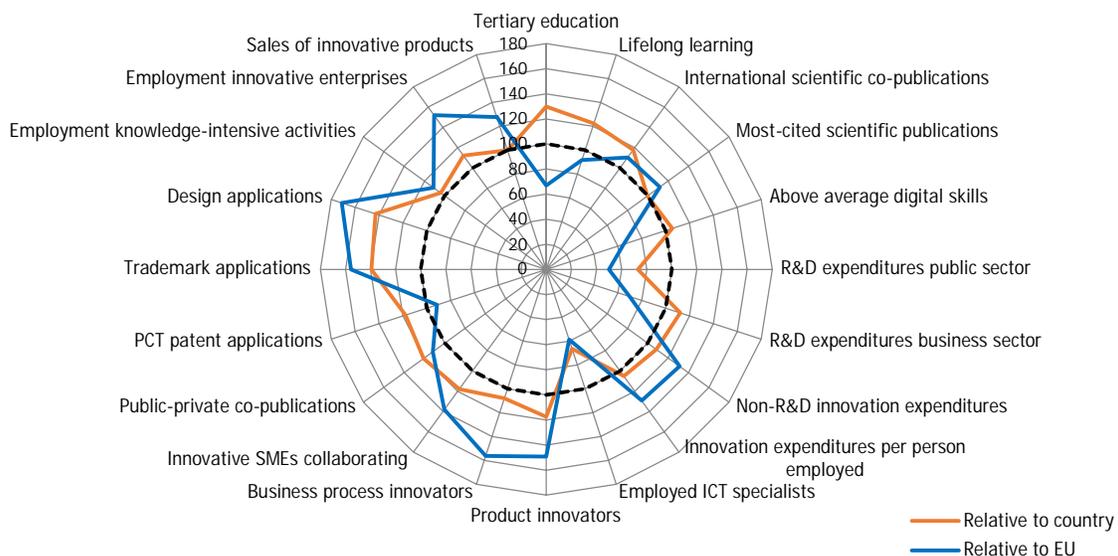
Veneto (ITH3) is a Strong Innovator -. Innovation performance has increased over time (29%).

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The radar graph shows relative strengths compared to Italy (orange line) and the EU (blue line), showing relative strengths (e.g. Design applications) and weaknesses (e.g. R&D expenditures public sector).

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

	ITH3	IT	EU
Share of employment in:			
Agriculture & Mining (A-B)	3.2	4.0	4.6
Manufacturing (C)	27.3	18.6	16.4
Utilities & Construction (D-F)	6.8	7.5	8.2
Services (G-N)	59.3	64.6	62.9
Public administration (O-U)	3.5	5.4	7.1
Average number of employed persons per enterprise	4.2	3.8	5.2
GDP per capita (PPS)	33,700	29,800	31,200
GDP per capita growth (PPS)	3.12	2.98	3.21
Population density	282	202	109
Urbanisation	85.3	81.8	75.3
Population size (000s)	4,880	59,640	446,450



Friuli-Venezia Giulia (ITH4)

	Data	Normalised score	Relative to	
			IT	EU
Tertiary education	31.9	0.396	134	69
Lifelong learning	10.9	0.406	135	101
International scientific co-publications	2,854	0.866	165	154
Most-cited scientific publications	9.7	0.535	88	98
Above average digital skills	22.8	0.341	106	65
R&D expenditures public sector	0.75	0.504	152	104
R&D expenditures business sector	0.90	0.323	100	62
Non-R&D innovation expenditures	±	0.757	±	±
Innovation expenditures per person employed	±	0.720	±	±
Employed ICT specialists	3.3	0.409	93	82
Product innovators	±	0.671	±	±
Business process innovators	±	0.969	±	±
Innovative SMEs collaborating	±	0.648	±	±
Public-private co-publications	376.4	0.689	150	139
PCT patent applications	2.92	0.573	119	93
Trademark applications	6.41	0.472	93	103
Design applications	11.18	0.962	140	168
Employment knowledge-intensive activities	16.0	0.621	98	104
Employment innovative enterprises	±	0.832	±	±
Sales of innovative products	±	0.808	±	±
Air emissions by fine particulates	14.0	0.479	119	98
Average score	--	0.618	--	--
Country EIS-RIS correction factor	--	0.927	--	--
Regional Innovation Index 2021	--	0.573	--	--
RII 2021 (same year)	--	--	112.8	106.6
RII 2021 (cf. to EU 2014)	--	--	--	122.5
Regional Innovation Index 2014	--	0.456	--	--
RII 2014 (same year)	--	--	120.2	97.4
RII - change between 2014 and 2021	--	25.1	--	--

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

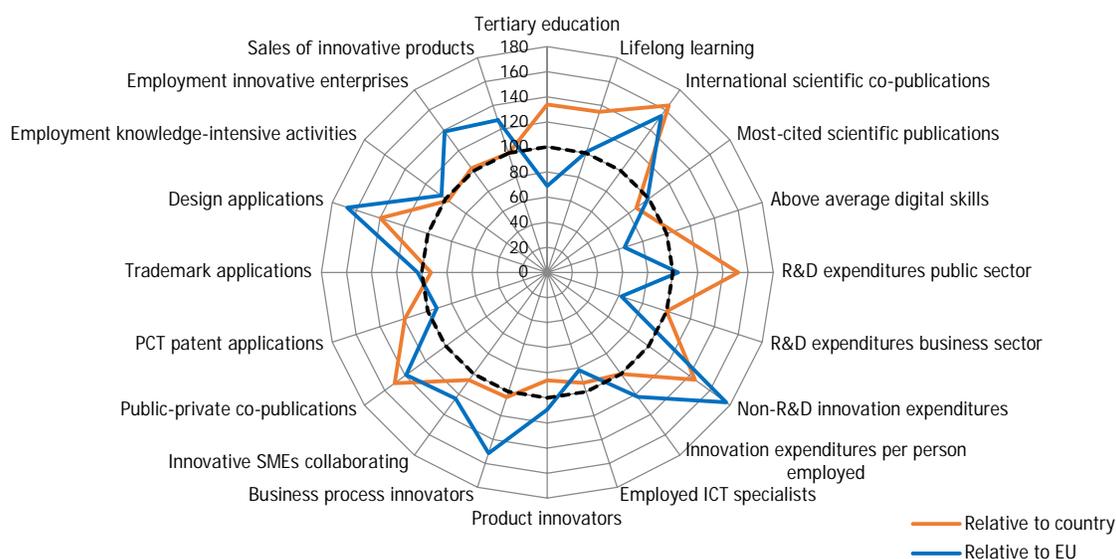
Friuli-Venezia Giulia (ITH4) is a Strong Innovator -. Innovation performance has increased over time (25.1%).

The table on the left shows the normalised scores per indicator and relative results compared to Italy and the EU. The table also shows the Regional Innovation Index (RII) in 2021 compared to that of Italy 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 Italy (orange line) and the EU (blue line), showing relative strengths (e.g. Non-R&D innovation expenditures) and weaknesses (e.g. R&D expenditures business sector).

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

	ITH4	IT	EU
Share of employment in:			
Agriculture & Mining (A-B)	3.3	4.0	4.6
Manufacturing (C)	22.9	18.6	16.4
Utilities & Construction (D-F)	7.4	7.5	8.2
Services (G-N)	59.5	64.6	62.9
Public administration (O-U)	6.8	5.4	7.1
Average number of employed persons per enterprise	4.3	3.8	5.2
GDP per capita (PPS)	32,100	29,800	31,200
GDP per capita growth (PPS)	2.84	2.98	3.21
Population density	160	202	109
Urbanisation	72.5	81.8	75.3
Population size (000s)	1,210	59,640	446,450



Emilia-Romagna (ITH5)

	Data	Normalised score	Relative to	
			IT	EU
Tertiary education	33.6	0.436	147	76
Lifelong learning	10.4	0.387	128	96
International scientific co-publications	1,840	0.695	132	124
Most-cited scientific publications	10.7	0.592	97	109
Above average digital skills	23.0	0.347	107	66
R&D expenditures public sector	0.47	0.311	94	64
R&D expenditures business sector	1.55	0.556	172	107
Non-R&D innovation expenditures	±	0.502	±	±
Innovation expenditures per person employed	±	0.718	±	±
Employed ICT specialists	3.2	0.396	90	79
Product innovators	±	0.864	±	±
Business process innovators	±	0.997	±	±
Innovative SMEs collaborating	±	0.760	±	±
Public-private co-publications	358.9	0.673	147	136
PCT patent applications	3.78	0.651	135	105
Trademark applications	8.79	0.648	127	142
Design applications	10.69	0.940	137	164
Employment knowledge-intensive activities	19.3	0.787	124	132
Employment innovative enterprises	±	0.914	±	±
Sales of innovative products	±	0.808	±	±
Air emissions by fine particulates	16.9	0.338	84	69
Average score	--	0.634	--	--
Country EIS-RIS correction factor	--	0.927	--	--
Regional Innovation Index 2021	--	0.588	--	--
RII 2021 (same year)	--	--	115.8	109.4
RII 2021 (cf. to EU 2014)	--	--	--	125.7
Regional Innovation Index 2014	--	0.428	--	--
RII 2014 (same year)	--	--	113.0	91.5
RII - change between 2014 and 2021	--	34.2	--	--

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

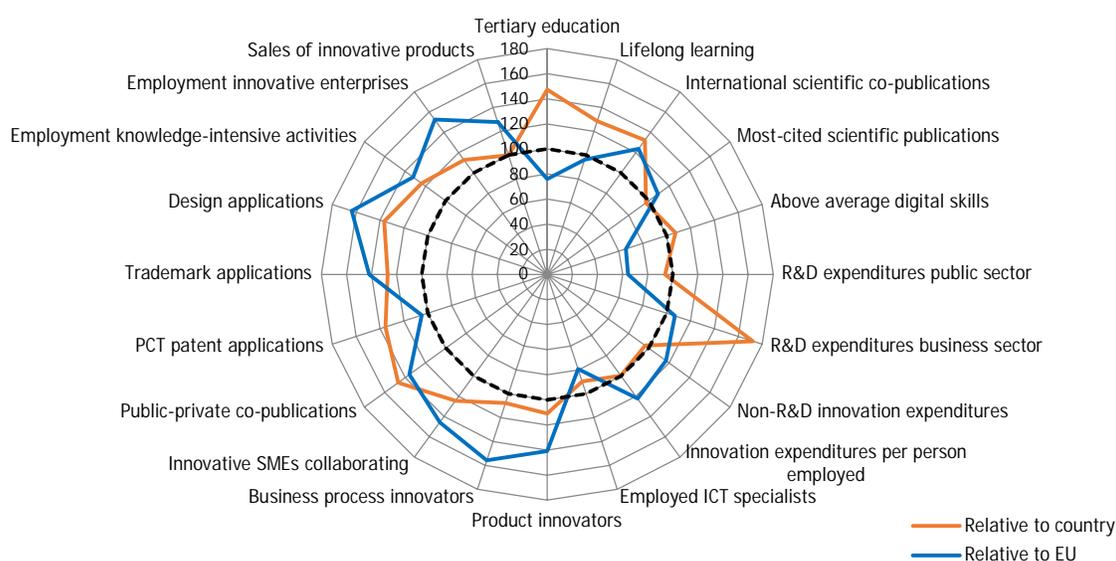
Emilia-Romagna (ITH5) is a Strong Innovator. Innovation performance has increased over time (34.2%).

The table on the left shows the normalised scores per indicator and relative results compared to Italy and the EU. The table also shows the Regional Innovation Index (RII) in 2021 compared to that of Italy 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 Italy (orange line) and the EU (blue line), showing relative strengths (e.g. Design applications) and weaknesses (e.g. R&D expenditures public sector).

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

	ITH5	IT	EU
Share of employment in:			
Agriculture & Mining (A-B)	3.8	4.0	4.6
Manufacturing (C)	25.3	18.6	16.4
Utilities & Construction (D-F)	6.6	7.5	8.2
Services (G-N)	60.7	64.6	62.9
Public administration (O-U)	3.7	5.4	7.1
Average number of employed persons per enterprise	4.3	3.8	5.2
GDP per capita (PPS)	36,800	29,800	31,200
GDP per capita growth (PPS)	3.16	2.98	3.21
Population density	202	202	109
Urbanisation	80.6	81.8	75.3
Population size (000s)	4,460	59,640	446,450



Toscana (IT1)

	Data	Normalised score	Relative to	
			IT	EU
Tertiary education	28.2	0.308	104	54
Lifelong learning	9.4	0.350	116	87
International scientific co-publications	2,219	0.763	145	136
Most-cited scientific publications	12.6	0.716	117	132
Above average digital skills	22.5	0.335	104	64
R&D expenditures public sector	0.58	0.387	117	80
R&D expenditures business sector	0.95	0.341	106	66
Non-R&D innovation expenditures	±	0.491	±	±
Innovation expenditures per person employed	±	0.720	±	±
Employed ICT specialists	2.8	0.334	76	67
Product innovators	±	0.828	±	±
Business process innovators	±	0.930	±	±
Innovative SMEs collaborating	±	0.565	±	±
Public-private co-publications	409.5	0.719	157	145
PCT patent applications	2.48	0.528	110	85
Trademark applications	8.20	0.604	119	132
Design applications	6.14	0.712	104	124
Employment knowledge-intensive activities	14.4	0.540	85	91
Employment innovative enterprises	±	0.837	±	±
Sales of innovative products	±	0.808	±	±
Air emissions by fine particulates	13.2	0.518	128	105
Average score	--	0.587	--	--
Country EIS-RIS correction factor	--	0.927	--	--
Regional Innovation Index 2021	--	0.545	--	--
RII 2021 (same year)	--	--	107.2	101.3
RII 2021 (cf. to EU 2014)	--	--	--	116.3
Regional Innovation Index 2014	--	0.414	--	--
RII 2014 (same year)	--	--	109.2	88.4
RII - change between 2014 and 2021	--	27.9	--	--

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

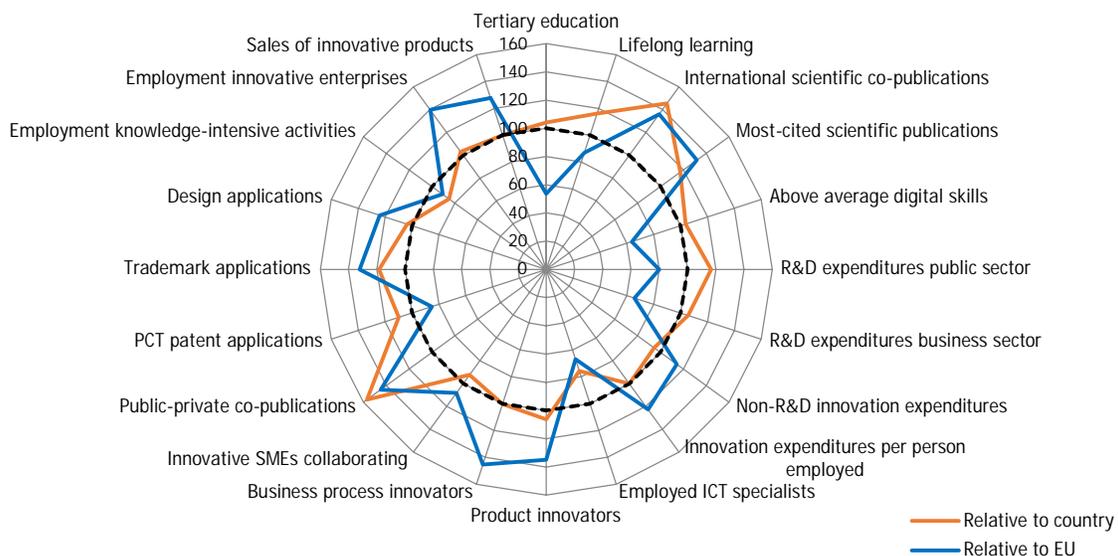
Toscana (IT1) is a Strong Innovator -. Innovation performance has increased over time (27.9%).

The table on the left shows the normalised scores per indicator and relative results compared to Italy and the EU. The table also shows the Regional Innovation Index (RII) in 2021 compared to that of Italy 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 Italy (orange line) and the EU (blue line), showing relative strengths (e.g. Business process innovators) and weaknesses (e.g. Tertiary education).

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

	IT1	IT	EU
Share of employment in:			
Agriculture & Mining (A-B)	3.1	4.0	4.6
Manufacturing (C)	18.4	18.6	16.4
Utilities & Construction (D-F)	7.8	7.5	8.2
Services (G-N)	65.7	64.6	62.9
Public administration (O-U)	4.9	5.4	7.1
Average number of employed persons per enterprise	3.4	3.8	5.2
GDP per capita (PPS)	32,000	29,800	31,200
GDP per capita growth (PPS)	2.94	2.98	3.21
Population density	163	202	109
Urbanisation	79.1	81.8	75.3
Population size (000s)	3,690	59,640	446,450



Umbria (IT12)

	Data	Normalised score	Relative to	
			IT	EU
Tertiary education	31.1	0.377	127	66
Lifelong learning	10.2	0.380	126	94
International scientific co-publications	1,859	0.699	133	124
Most-cited scientific publications	13.2	0.752	123	138
Above average digital skills	22.5	0.335	104	64
R&D expenditures public sector	0.54	0.359	108	74
R&D expenditures business sector	0.49	0.176	54	34
Non-R&D innovation expenditures	±	0.614	±	±
Innovation expenditures per person employed	±	0.784	±	±
Employed ICT specialists	3.3	0.408	92	82
Product innovators	±	0.693	±	±
Business process innovators	±	0.811	±	±
Innovative SMEs collaborating	±	0.553	±	±
Public-private co-publications	305.7	0.621	136	125
PCT patent applications	1.53	0.414	86	67
Trademark applications	5.77	0.424	83	93
Design applications	22.73	1.000	145	174
Employment knowledge-intensive activities	14.4	0.540	85	91
Employment innovative enterprises	±	0.772	±	±
Sales of innovative products	±	0.808	±	±
Air emissions by fine particulates	13.4	0.505	125	103
Average score	--	0.573	--	--
Country EIS-RIS correction factor	--	0.927	--	--
Regional Innovation Index 2021	--	0.531	--	--
RII 2021 (same year)	--	--	104.5	98.8
RII 2021 (cf. to EU 2014)	--	--	--	113.4
Regional Innovation Index 2014	--	0.394	--	--
RII 2014 (same year)	--	--	104.1	84.3
RII - change between 2014 and 2021	--	29.2	--	--

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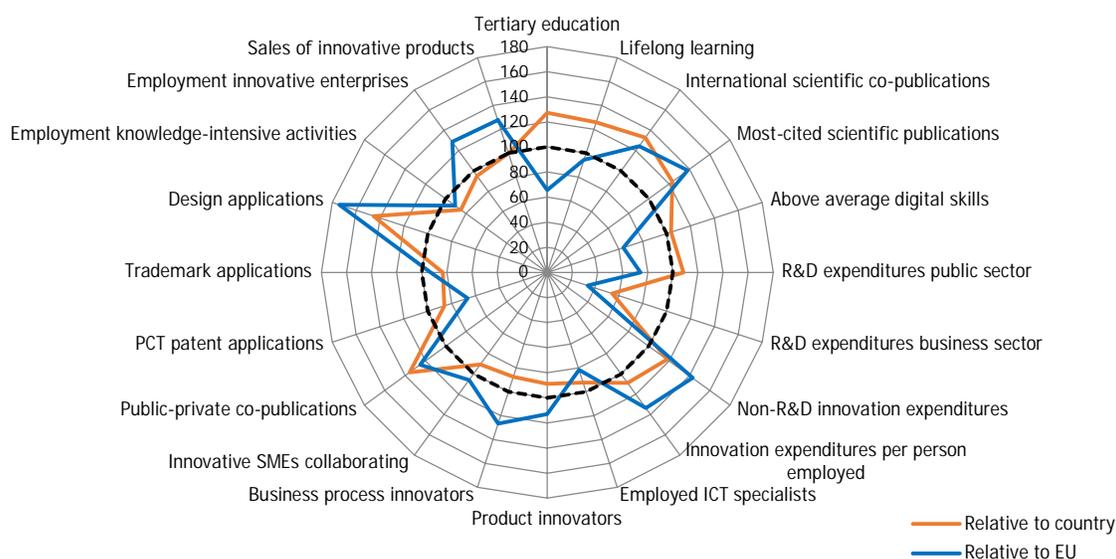
Umbria (IT12) is a Moderate Innovator +. Innovation performance has increased over time (29.2%).

The table on the left shows the normalised scores per indicator and relative results compared to Italy and the EU. The table also shows the Regional Innovation Index (RII) in 2021 compared to that of Italy 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 Italy (orange line) and the EU (blue line), showing relative strengths (e.g. Design applications) and weaknesses (e.g. R&D expenditures business sector).

The table below shows data highlighting possible structural differences, e.g. Employment in Agriculture & Mining (above average) and Average employed persons per enterprise (below average).

	IT12	IT	EU
Share of employment in:			
Agriculture & Mining (A-B)	4.3	4.0	4.6
Manufacturing (C)	18.1	18.6	16.4
Utilities & Construction (D-F)	7.7	7.5	8.2
Services (G-N)	64.3	64.6	62.9
Public administration (O-U)	5.7	5.4	7.1
Average number of employed persons per enterprise	3.5	3.8	5.2
GDP per capita (PPS)	26,500	29,800	31,200
GDP per capita growth (PPS)	2.94	2.98	3.21
Population density	106	202	109
Urbanisation	65.8	81.8	75.3
Population size (000s)	870	59,640	446,450



Regional Innovation Scoreboard 2021

Marche (IT13)

	Data	Normalised score	Relative to	
			IT	EU
Tertiary education	31.8	0.393	133	69
Lifelong learning	7.7	0.287	95	71
International scientific co-publications	1,189	0.559	106	99
Most-cited scientific publications	12.1	0.681	112	125
Above average digital skills	22.5	0.335	104	64
R&D expenditures public sector	0.38	0.249	75	51
R&D expenditures business sector	0.68	0.244	76	47
Non-R&D innovation expenditures	±	0.665	±	±
Innovation expenditures per person employed	±	0.571	±	±
Employed ICT specialists	1.7	0.185	42	37
Product innovators	±	0.612	±	±
Business process innovators	±	0.719	±	±
Innovative SMEs collaborating	±	0.424	±	±
Public-private co-publications	174.5	0.469	102	95
PCT patent applications	1.91	0.463	96	75
Trademark applications	7.76	0.571	112	125
Design applications	13.23	1.000	145	174
Employment knowledge-intensive activities	15.3	0.585	92	98
Employment innovative enterprises	±	0.656	±	±
Sales of innovative products	±	0.808	±	±
Air emissions by fine particulates	12.5	0.548	136	112
Average score	--	0.525	--	--
Country EIS-RIS correction factor	--	0.927	--	--
Regional Innovation Index 2021	--	0.487	--	--
RII 2021 (same year)	--	--	95.8	90.6
RII 2021 (cf. to EU 2014)	--	--	--	104.0
Regional Innovation Index 2014	--	0.362	--	--
RII 2014 (same year)	--	--	95.6	77.4
RII - change between 2014 and 2021	--	26.6	--	--

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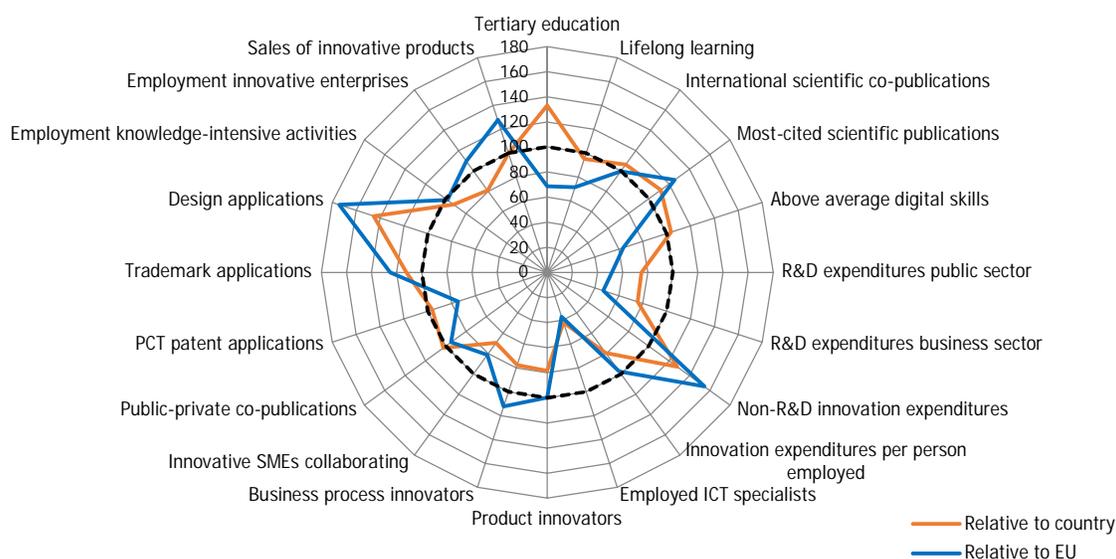
Marche (IT13) is a Moderate Innovator +. Innovation performance has increased over time (26.6%).

The table on the left shows the normalised scores per indicator and relative results compared to Italy and the EU. The table also shows the Regional Innovation Index (RII) in 2021 compared to that of Italy 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 Italy (orange line) and the EU (blue line), showing relative strengths (e.g. Design applications) and weaknesses (e.g. Employed ICT specialists).

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

	IT13	IT	EU
Share of employment in:			
Agriculture & Mining (A-B)	2.9	4.0	4.6
Manufacturing (C)	29.0	18.6	16.4
Utilities & Construction (D-F)	6.3	7.5	8.2
Services (G-N)	57.7	64.6	62.9
Public administration (O-U)	4.2	5.4	7.1
Average number of employed persons per enterprise	3.4	3.8	5.2
GDP per capita (PPS)	28,000	29,800	31,200
GDP per capita growth (PPS)	2.77	2.98	3.21
Population density	162	202	109
Urbanisation	79.9	81.8	75.3
Population size (000s)	1,510	59,640	446,450



Regional Innovation Scoreboard 2021

Lazio (IT14)

	Data	Normalised score	Relative to	
			IT	EU
Tertiary education	33.8	0.441	149	77
Lifelong learning	8.5	0.317	105	79
International scientific co-publications	2,131	0.748	142	133
Most-cited scientific publications	10.5	0.581	95	107
Above average digital skills	22.8	0.341	106	65
R&D expenditures public sector	1.05	0.712	215	147
R&D expenditures business sector	0.65	0.233	72	45
Non-R&D innovation expenditures	±	0.404	±	±
Innovation expenditures per person employed	±	0.738	±	±
Employed ICT specialists	7.4	0.995	225	199
Product innovators	±	0.787	±	±
Business process innovators	±	0.838	±	±
Innovative SMEs collaborating	±	0.587	±	±
Public-private co-publications	351.8	0.666	145	134
PCT patent applications	1.15	0.359	75	58
Trademark applications	5.38	0.395	78	87
Design applications	2.03	0.410	60	71
Employment knowledge-intensive activities	16.9	0.666	105	112
Employment innovative enterprises	±	0.728	±	±
Sales of innovative products	±	0.808	±	±
Air emissions by fine particulates	14.3	0.462	115	94
Average score	--	0.582	--	--
Country EIS-RIS correction factor	--	0.927	--	--
Regional Innovation Index 2021	--	0.539	--	--
RII 2021 (same year)	--	--	106.2	100.4
RII 2021 (cf. to EU 2014)	--	--	--	115.2
Regional Innovation Index 2014	--	0.415	--	--
RII 2014 (same year)	--	--	109.5	88.6
RII - change between 2014 and 2021	--	26.6	--	--

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

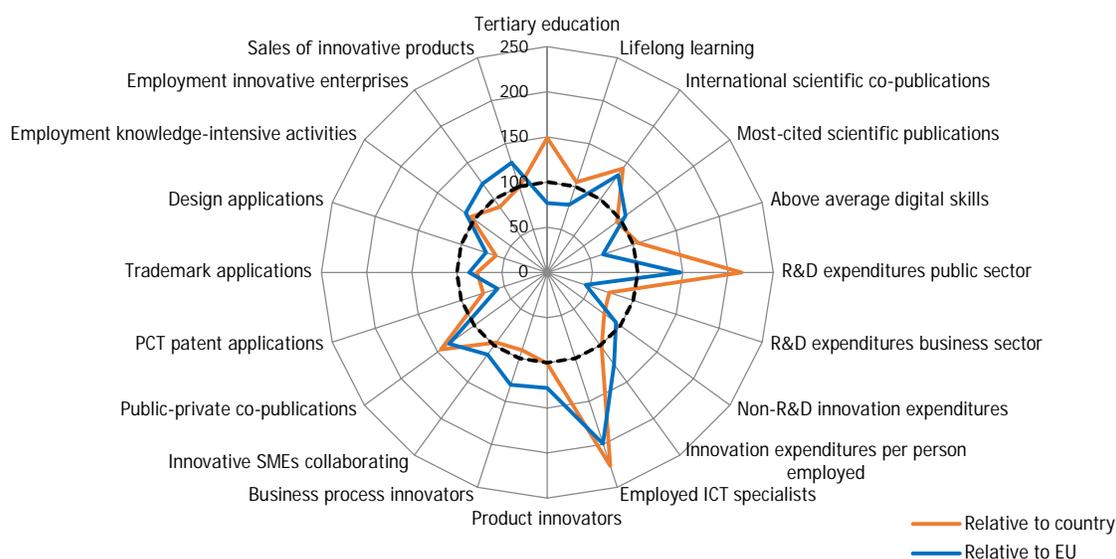
Lazio (IT14) is a Strong Innovator -. Innovation performance has increased over time (26.6%).

The table on the left shows the normalised scores per indicator and relative results compared to Italy and the EU. The table also shows the Regional Innovation Index (RII) in 2021 compared to that of Italy 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 Italy (orange line) and the EU (blue line), showing relative strengths (e.g. Employed ICT specialists) and weaknesses (e.g. R&D expenditures business sector).

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

	IT14	IT	EU
Share of employment in:			
Agriculture & Mining (A-B)	2.4	4.0	4.6
Manufacturing (C)	7.8	18.6	16.4
Utilities & Construction (D-F)	6.8	7.5	8.2
Services (G-N)	73.8	64.6	62.9
Public administration (O-U)	9.2	5.4	7.1
Average number of employed persons per enterprise	4.2	3.8	5.2
GDP per capita (PPS)	34,300	29,800	31,200
GDP per capita growth (PPS)	2.81	2.98	3.21
Population density	343	202	109
Urbanisation	87.2	81.8	75.3
Population size (000s)	5,760	59,640	446,450



Regional Innovation Scoreboard 2021

Abruzzo (ITF1)

	Data	Normalised score	Relative to	
			IT	EU
Tertiary education	25.7	0.249	84	43
Lifelong learning	7.2	0.268	89	67
International scientific co-publications	1,682	0.665	126	118
Most-cited scientific publications	10.2	0.565	93	104
Above average digital skills	22.0	0.323	100	61
R&D expenditures public sector	0.47	0.311	94	64
R&D expenditures business sector	0.43	0.154	48	30
Non-R&D innovation expenditures	±	0.643	±	±
Innovation expenditures per person employed	±	0.559	±	±
Employed ICT specialists	2.8	0.334	76	67
Product innovators	±	0.664	±	±
Business process innovators	±	0.905	±	±
Innovative SMEs collaborating	±	0.271	±	±
Public-private co-publications	232.6	0.542	118	109
PCT patent applications	1.35	0.389	81	63
Trademark applications	4.61	0.338	66	74
Design applications	1.71	0.376	55	66
Employment knowledge-intensive activities	16.0	0.621	98	104
Employment innovative enterprises	±	0.776	±	±
Sales of innovative products	±	0.808	±	±
Air emissions by fine particulates	12.5	0.552	137	112
Average score	--	0.491	--	--
Country EIS-RIS correction factor	--	0.927	--	--
Regional Innovation Index 2021	--	0.455	--	--
RII 2021 (same year)	--	--	89.6	84.7
RII 2021 (cf. to EU 2014)	--	--	--	97.3
Regional Innovation Index 2014	--	0.349	--	--
RII 2014 (same year)	--	--	92.1	74.6
RII - change between 2014 and 2021	--	22.7	--	--

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

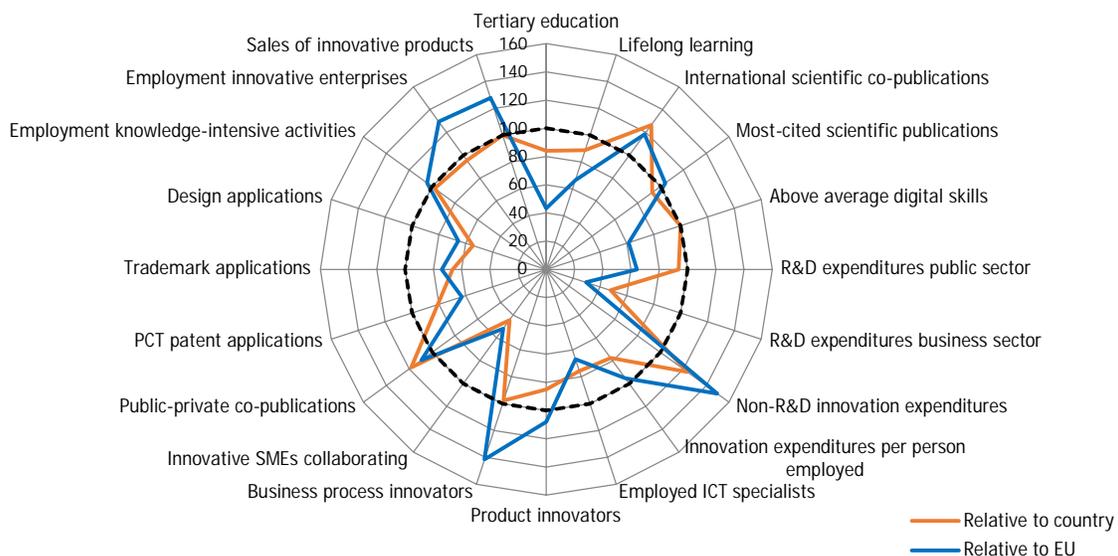
Abruzzo (ITF1) is a Moderate Innovator. Innovation performance has increased over time (22.7%).

The table on the left shows the normalised scores per indicator and relative results compared to Italy and the EU. The table also shows the Regional Innovation Index (RII) in 2021 compared to that of Italy 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 Italy (orange line) and the EU (blue line), showing relative strengths (e.g. Non-R&D innovation expenditures) and weaknesses (e.g. R&D expenditures business sector).

The table below shows data highlighting possible structural differences, e.g. Employment in Utilities & Construction (above average) and Average employed persons per enterprise (below average).

	ITF1	IT	EU
Share of employment in:			
Agriculture & Mining (A-B)	4.5	4.0	4.6
Manufacturing (C)	20.1	18.6	16.4
Utilities & Construction (D-F)	9.5	7.5	8.2
Services (G-N)	60.6	64.6	62.9
Public administration (O-U)	5.3	5.4	7.1
Average number of employed persons per enterprise	3.1	3.8	5.2
GDP per capita (PPS)	25,400	29,800	31,200
GDP per capita growth (PPS)	2.18	2.98	3.21
Population density	121	202	109
Urbanisation	67.3	81.8	75.3
Population size (000s)	1,290	59,640	446,450



Molise (ITF2)

	Data	Normalised score	Relative to	
			IT	EU
Tertiary education	29.0	0.327	110	57
Lifelong learning	7.7	0.287	95	71
International scientific co-publications	1,431	0.613	117	109
Most-cited scientific publications	11.0	0.617	101	113
Above average digital skills	20.2	0.281	87	53
R&D expenditures public sector	0.33	0.214	65	44
R&D expenditures business sector	0.93	0.334	103	64
Non-R&D innovation expenditures	±	0.626	±	±
Innovation expenditures per person employed	±	0.841	±	±
Employed ICT specialists	2.2	0.248	56	50
Product innovators	±	0.451	±	±
Business process innovators	±	0.832	±	±
Innovative SMEs collaborating	±	0.408	±	±
Public-private co-publications	336.1	0.651	142	131
PCT patent applications	0.53	0.245	51	40
Trademark applications	4.17	0.306	60	67
Design applications	0.23	0.138	20	24
Employment knowledge-intensive activities	16.5	0.646	102	108
Employment innovative enterprises	±	0.581	±	±
Sales of innovative products	±	0.808	±	±
Air emissions by fine particulates	10.7	0.636	158	129
Average score	--	0.480	--	--
Country EIS-RIS correction factor	--	0.927	--	--
Regional Innovation Index 2021	--	0.445	--	--
RII 2021 (same year)	--	--	87.7	82.9
RII 2021 (cf. to EU 2014)	--	--	--	95.2
Regional Innovation Index 2014	--	0.322	--	--
RII 2014 (same year)	--	--	84.9	68.7
RII - change between 2014 and 2021	--	26.4	--	--

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

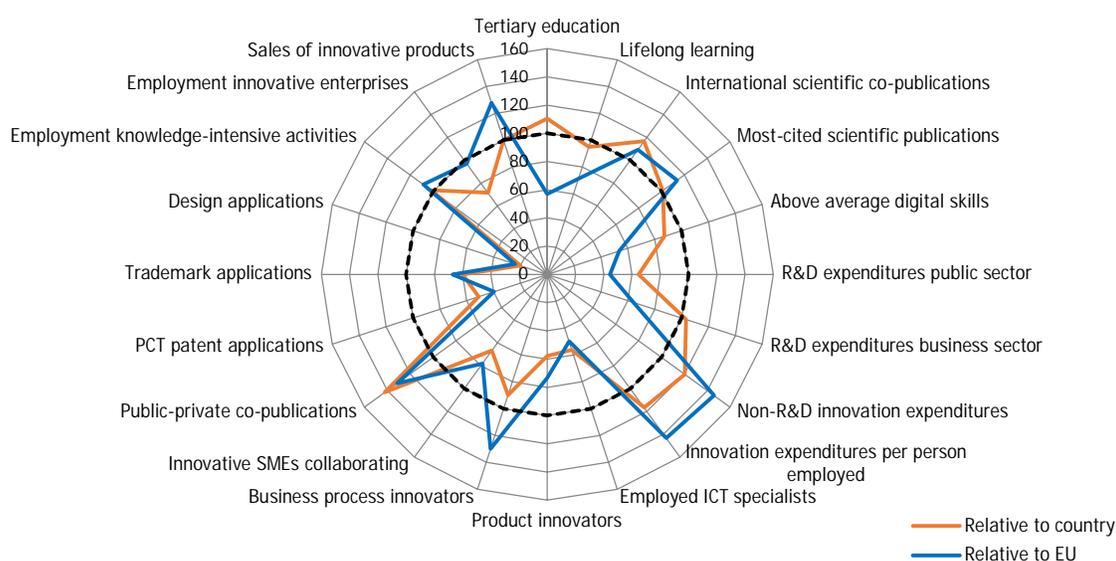
Molise (ITF2) is a Moderate Innovator. Innovation performance has increased over time (26.4%).

The table on the left shows the normalised scores per indicator and relative results compared to Italy and the EU. The table also shows the Regional Innovation Index (RII) in 2021 compared to that of Italy 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 Italy (orange line) and the EU (blue line), showing relative strengths (e.g. Non-R&D innovation expenditures) and weaknesses (e.g. Design applications).

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

	ITF2	IT	EU
Share of employment in:			
Agriculture & Mining (A-B)	6.4	4.0	4.6
Manufacturing (C)	16.6	18.6	16.4
Utilities & Construction (D-F)	8.1	7.5	8.2
Services (G-N)	61.0	64.6	62.9
Public administration (O-U)	7.9	5.4	7.1
Average number of employed persons per enterprise	2.5	3.8	5.2
GDP per capita (PPS)	21,400	29,800	31,200
GDP per capita growth (PPS)	2.88	2.98	3.21
Population density	68	202	109
Urbanisation	52.8	81.8	75.3
Population size (000s)	300	59,640	446,450



Campania (ITF3)

	Data	Normalised score	Relative to	
			IT	EU
Tertiary education	22.4	0.170	58	30
Lifelong learning	5.3	0.197	65	49
International scientific co-publications	1,144	0.548	104	98
Most-cited scientific publications	12.8	0.724	119	133
Above average digital skills	20.7	0.293	91	56
R&D expenditures public sector	0.68	0.456	138	94
R&D expenditures business sector	0.60	0.215	67	41
Non-R&D innovation expenditures	±	0.609	±	±
Innovation expenditures per person employed	±	0.589	±	±
Employed ICT specialists	2.7	0.329	75	66
Product innovators	±	0.603	±	±
Business process innovators	±	0.767	±	±
Innovative SMEs collaborating	±	0.573	±	±
Public-private co-publications	228.1	0.537	117	108
PCT patent applications	0.84	0.307	64	50
Trademark applications	5.55	0.408	80	89
Design applications	1.76	0.381	55	66
Employment knowledge-intensive activities	12.3	0.435	68	73
Employment innovative enterprises	±	0.657	±	±
Sales of innovative products	±	0.808	±	±
Air emissions by fine particulates	12.8	0.534	133	109
Average score	--	0.483	--	--
Country EIS-RIS correction factor	--	0.927	--	--
Regional Innovation Index 2021	--	0.448	--	--
RII 2021 (same year)	--	--	88.2	83.3
RII 2021 (cf. to EU 2014)	--	--	--	95.7
Regional Innovation Index 2014	--	0.307	--	--
RII 2014 (same year)	--	--	81.0	65.6
RII - change between 2014 and 2021	--	30.0	--	--

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

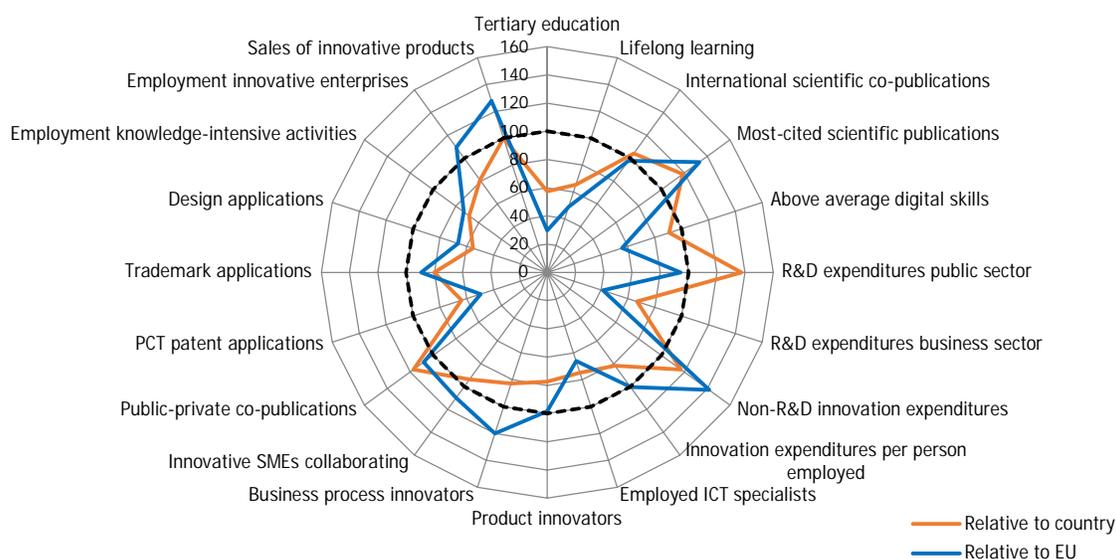
Campania (ITF3) is a Moderate Innovator. Innovation performance has increased over time (30%).

The table on the left shows the normalised scores per indicator and relative results compared to Italy and the EU. The table also shows the Regional Innovation Index (RII) in 2021 compared to that of Italy 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 Italy (orange line) and the EU (blue line), showing relative strengths (e.g. Non-R&D innovation expenditures) and weaknesses (e.g. Tertiary education).

The table below shows data highlighting possible structural differences, e.g. Population density (above average) and GDP per capita (below average).

	ITF3	IT	EU
Share of employment in:			
Agriculture & Mining (A-B)	4.3	4.0	4.6
Manufacturing (C)	12.8	18.6	16.4
Utilities & Construction (D-F)	8.8	7.5	8.2
Services (G-N)	67.6	64.6	62.9
Public administration (O-U)	6.6	5.4	7.1
Average number of employed persons per enterprise	3.0	3.8	5.2
GDP per capita (PPS)	19,000	29,800	31,200
GDP per capita growth (PPS)	2.52	2.98	3.21
Population density	422	202	109
Urbanisation	84.6	81.8	75.3
Population size (000s)	5,710	59,640	446,450



Puglia (ITF4)

	Data	Normalised score	Relative to	
			IT	EU
Tertiary education	20.8	0.132	45	23
Lifelong learning	5.8	0.216	72	54
International scientific co-publications	847	0.472	90	84
Most-cited scientific publications	11.3	0.631	103	116
Above average digital skills	20.2	0.281	87	53
R&D expenditures public sector	0.44	0.290	88	60
R&D expenditures business sector	0.32	0.115	36	22
Non-R&D innovation expenditures	±	0.586	±	±
Innovation expenditures per person employed	±	0.539	±	±
Employed ICT specialists	1.7	0.177	40	35
Product innovators	±	0.695	±	±
Business process innovators	±	0.746	±	±
Innovative SMEs collaborating	±	0.351	±	±
Public-private co-publications	155.1	0.442	97	89
PCT patent applications	0.82	0.303	63	49
Trademark applications	4.78	0.351	69	77
Design applications	3.64	0.548	80	96
Employment knowledge-intensive activities	10.5	0.344	54	58
Employment innovative enterprises	±	0.516	±	±
Sales of innovative products	±	0.808	±	±
Air emissions by fine particulates	13.9	0.481	119	98
Average score	--	0.430	--	--
Country EIS-RIS correction factor	--	0.927	--	--
Regional Innovation Index 2021	--	0.398	--	--
RII 2021 (same year)	--	--	78.5	74.1
RII 2021 (cf. to EU 2014)	--	--	--	85.1
Regional Innovation Index 2014	--	0.297	--	--
RII 2014 (same year)	--	--	78.5	63.6
RII - change between 2014 and 2021	--	21.6	--	--

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

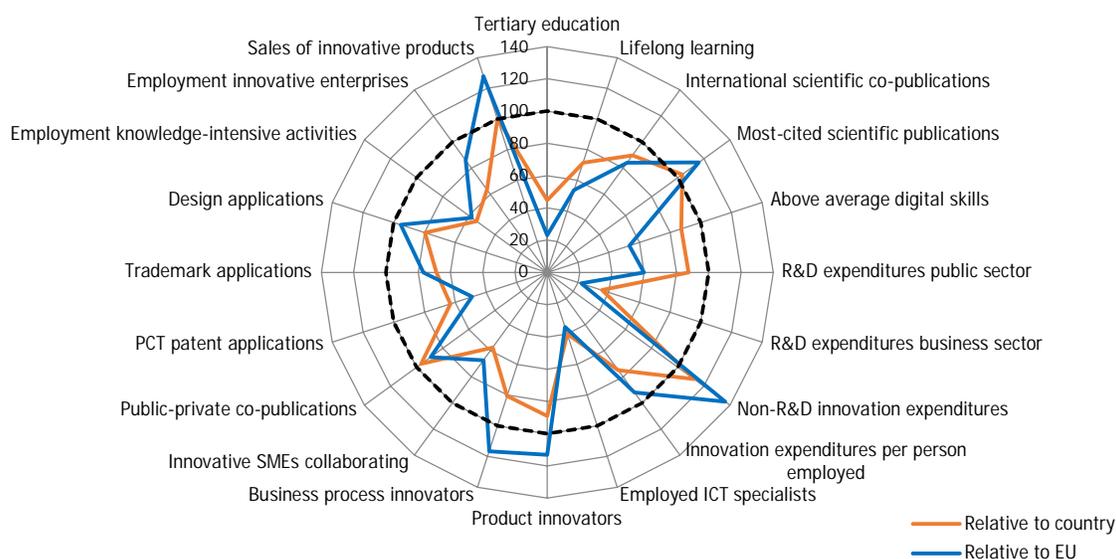
Puglia (ITF4) is a Moderate Innovator -. Innovation performance has increased over time (21.6%).

The table on the left shows the normalised scores per indicator and relative results compared to Italy and the EU. The table also shows the Regional Innovation Index (RII) in 2021 compared to that of Italy 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 Italy (orange line) and the EU (blue line), showing relative strengths (e.g. Non-R&D innovation expenditures) and weaknesses (e.g. R&D expenditures business sector).

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

	ITF4	IT	EU
Share of employment in:			
Agriculture & Mining (A-B)	8.7	4.0	4.6
Manufacturing (C)	13.8	18.6	16.4
Utilities & Construction (D-F)	8.3	7.5	8.2
Services (G-N)	62.2	64.6	62.9
Public administration (O-U)	7.0	5.4	7.1
Average number of employed persons per enterprise	2.9	3.8	5.2
GDP per capita (PPS)	19,400	29,800	31,200
GDP per capita growth (PPS)	3.05	2.98	3.21
Population density	207	202	109
Urbanisation	89.6	81.8	75.3
Population size (000s)	3,950	59,640	446,450



Basilicata (ITF5)

	Data	Normalised score	Relative to	
			IT	EU
Tertiary education	27.8	0.298	101	52
Lifelong learning	7.0	0.261	86	65
International scientific co-publications	815	0.463	88	82
Most-cited scientific publications	8.1	0.433	71	80
Above average digital skills	20.4	0.287	89	55
R&D expenditures public sector	0.43	0.283	85	59
R&D expenditures business sector	0.19	0.068	21	13
Non-R&D innovation expenditures	±	0.761	±	±
Innovation expenditures per person employed	±	0.614	±	±
Employed ICT specialists	2.0	0.223	50	45
Product innovators	±	0.876	±	±
Business process innovators	±	0.915	±	±
Innovative SMEs collaborating	±	0.336	±	±
Public-private co-publications	173.5	0.468	102	94
PCT patent applications	0.37	0.204	42	33
Trademark applications	1.72	0.124	24	27
Design applications	2.37	0.442	64	77
Employment knowledge-intensive activities	15.0	0.570	90	96
Employment innovative enterprises	±	0.635	±	±
Sales of innovative products	±	0.808	±	±
Air emissions by fine particulates	10.8	0.634	157	129
Average score	--	0.462	--	--
Country EIS-RIS correction factor	--	0.927	--	--
Regional Innovation Index 2021	--	0.428	--	--
RII 2021 (same year)	--	--	84.4	79.7
RII 2021 (cf. to EU 2014)	--	--	--	91.6
Regional Innovation Index 2014	--	0.287	--	--
RII 2014 (same year)	--	--	75.8	61.4
RII - change between 2014 and 2021	--	30.1	--	--

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

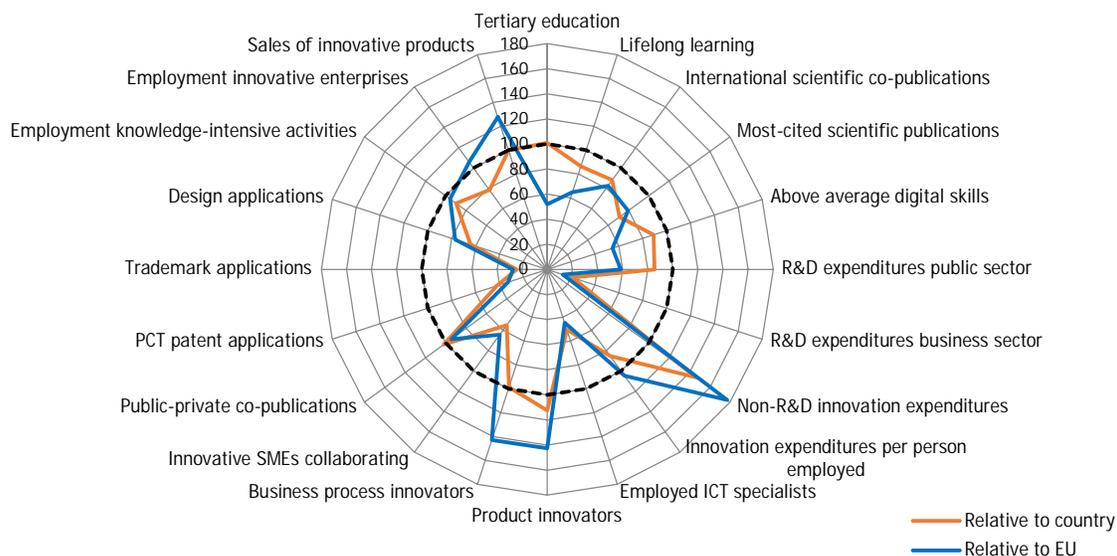
Basilicata (ITF5) is a Moderate Innovator -. Innovation performance has increased over time (30.1%).

The table on the left shows the normalised scores per indicator and relative results compared to Italy and the EU. The table also shows the Regional Innovation Index (RII) in 2021 compared to that of Italy 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 Italy (orange line) and the EU (blue line), showing relative strengths (e.g. Non-R&D innovation expenditures) and weaknesses (e.g. R&D expenditures business sector).

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

	ITF5	IT	EU
Share of employment in:			
Agriculture & Mining (A-B)	9.1	4.0	4.6
Manufacturing (C)	15.1	18.6	16.4
Utilities & Construction (D-F)	10.2	7.5	8.2
Services (G-N)	58.5	64.6	62.9
Public administration (O-U)	7.1	5.4	7.1
Average number of employed persons per enterprise	3.0	3.8	5.2
GDP per capita (PPS)	23,500	29,800	31,200
GDP per capita growth (PPS)	2.97	2.98	3.21
Population density	56	202	109
Urbanisation	44.9	81.8	75.3
Population size (000s)	550	59,640	446,450



Calabria (ITF6)

	Data	Normalised score	Relative to	
			IT	EU
Tertiary education	21.9	0.158	53	28
Lifelong learning	5.7	0.212	70	53
International scientific co-publications	755	0.445	85	79
Most-cited scientific publications	10.9	0.611	100	112
Above average digital skills	20.2	0.281	87	53
R&D expenditures public sector	0.39	0.256	77	53
R&D expenditures business sector	0.15	0.054	17	10
Non-R&D innovation expenditures	±	0.526	±	±
Innovation expenditures per person employed	±	0.543	±	±
Employed ICT specialists	1.7	0.187	42	38
Product innovators	±	0.547	±	±
Business process innovators	±	0.836	±	±
Innovative SMEs collaborating	±	0.443	±	±
Public-private co-publications	114.6	0.380	83	77
PCT patent applications	0.64	0.268	56	43
Trademark applications	2.18	0.159	31	35
Design applications	0.55	0.214	31	37
Employment knowledge-intensive activities	7.6	0.198	31	33
Employment innovative enterprises	±	0.566	±	±
Sales of innovative products	±	0.808	±	±
Air emissions by fine particulates	11.3	0.607	151	124
Average score	--	0.395	--	--
Country EIS-RIS correction factor	--	0.927	--	--
Regional Innovation Index 2021	--	0.366	--	--
RII 2021 (same year)	--	--	72.2	68.2
RII 2021 (cf. to EU 2014)	--	--	--	78.3
Regional Innovation Index 2014	--	0.272	--	--
RII 2014 (same year)	--	--	71.9	58.2
RII - change between 2014 and 2021	--	20.1	--	--

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

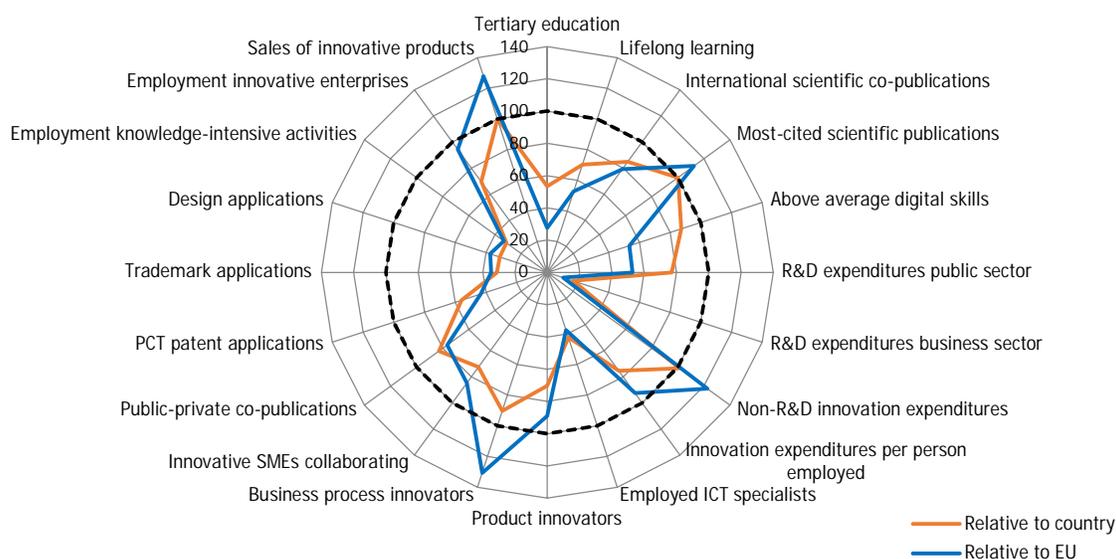
Calabria (ITF6) is an Emerging Innovator +. Innovation performance has increased over time (20.1%).

The table on the left shows the normalised scores per indicator and relative results compared to Italy and the EU. The table also shows the Regional Innovation Index (RII) in 2021 compared to that of Italy 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 Italy (orange line) and the EU (blue line), showing relative strengths (e.g. Business process innovators) and weaknesses (e.g. R&D expenditures business sector).

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

	ITF6	IT	EU
Share of employment in:			
Agriculture & Mining (A-B)	12.5	4.0	4.6
Manufacturing (C)	5.7	18.6	16.4
Utilities & Construction (D-F)	8.9	7.5	8.2
Services (G-N)	65.1	64.6	62.9
Public administration (O-U)	7.8	5.4	7.1
Average number of employed persons per enterprise	2.4	3.8	5.2
GDP per capita (PPS)	17,500	29,800	31,200
GDP per capita growth (PPS)	2.59	2.98	3.21
Population density	127	202	109
Urbanisation	67.9	81.8	75.3
Population size (000s)	1,890	59,640	446,450



Sicilia (ITG1)

	Data	Normalised score	Relative to	
			IT	EU
Tertiary education	19.4	0.099	33	17
Lifelong learning	4.8	0.179	59	44
International scientific co-publications	904	0.487	93	87
Most-cited scientific publications	11.8	0.665	109	122
Above average digital skills	19.9	0.275	85	52
R&D expenditures public sector	0.51	0.339	102	70
R&D expenditures business sector	0.30	0.108	33	21
Non-R&D innovation expenditures	±	0.643	±	±
Innovation expenditures per person employed	±	0.605	±	±
Employed ICT specialists	1.5	0.161	36	32
Product innovators	±	0.537	±	±
Business process innovators	±	0.790	±	±
Innovative SMEs collaborating	±	0.332	±	±
Public-private co-publications	142.8	0.424	93	86
PCT patent applications	0.55	0.249	52	40
Trademark applications	3.00	0.219	43	48
Design applications	0.43	0.188	27	33
Employment knowledge-intensive activities	8.6	0.248	39	42
Employment innovative enterprises	±	0.610	±	±
Sales of innovative products	±	0.808	±	±
Air emissions by fine particulates	11.8	0.586	145	119
Average score	--	0.407	--	--
Country EIS-RIS correction factor	--	0.927	--	--
Regional Innovation Index 2021	--	0.378	--	--
RII 2021 (same year)	--	--	74.4	70.3
RII 2021 (cf. to EU 2014)	--	--	--	80.7
Regional Innovation Index 2014	--	0.275	--	--
RII 2014 (same year)	--	--	72.6	58.7
RII - change between 2014 and 2021	--	21.9	--	--

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

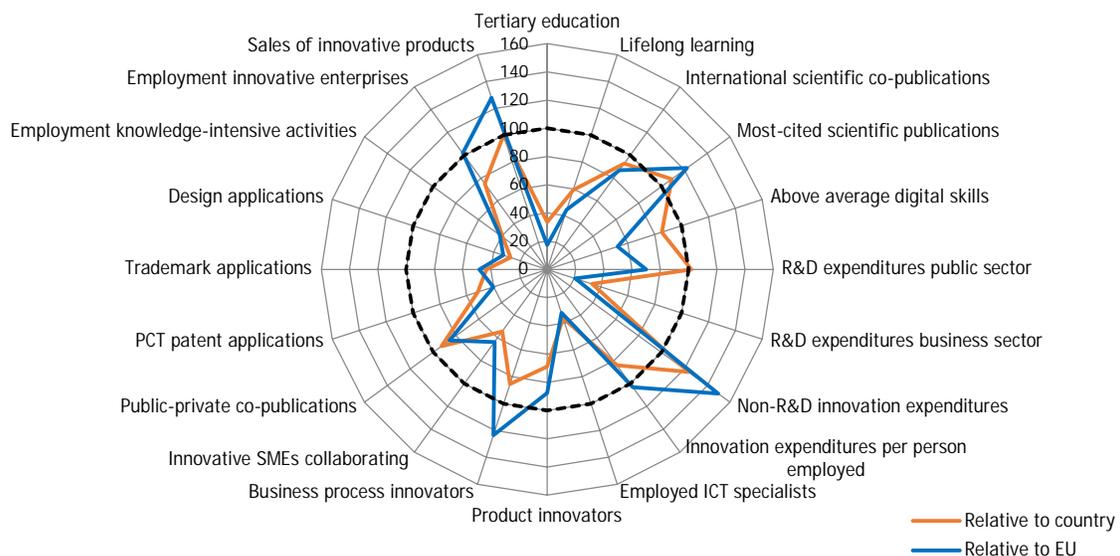
Sicilia (ITG1) is a Moderate Innovator -. Innovation performance has increased over time (21.9%).

The table on the left shows the normalised scores per indicator and relative results compared to Italy and the EU. The table also shows the Regional Innovation Index (RII) in 2021 compared to that of Italy 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 Italy (orange line) and the EU (blue line), showing relative strengths (e.g. Non-R&D innovation expenditures) and weaknesses (e.g. Tertiary education).

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

	ITG1	IT	EU
Share of employment in:			
Agriculture & Mining (A-B)	8.8	4.0	4.6
Manufacturing (C)	7.5	18.6	16.4
Utilities & Construction (D-F)	7.9	7.5	8.2
Services (G-N)	66.2	64.6	62.9
Public administration (O-U)	9.6	5.4	7.1
Average number of employed persons per enterprise	2.7	3.8	5.2
GDP per capita (PPS)	18,000	29,800	31,200
GDP per capita growth (PPS)	2.20	2.98	3.21
Population density	192	202	109
Urbanisation	85.6	81.8	75.3
Population size (000s)	4,880	59,640	446,450



Sardegna (ITG2)

	Data	Normalised score	Relative to	
			IT	EU
Tertiary education	22.3	0.168	57	29
Lifelong learning	8.5	0.317	105	79
International scientific co-publications	1,124	0.543	103	97
Most-cited scientific publications	9.5	0.520	85	96
Above average digital skills	22.0	0.323	100	61
R&D expenditures public sector	0.68	0.456	138	94
R&D expenditures business sector	0.12	0.043	13	8
Non-R&D innovation expenditures	±	0.343	±	±
Innovation expenditures per person employed	±	0.574	±	±
Employed ICT specialists	1.8	0.195	44	39
Product innovators	±	0.560	±	±
Business process innovators	±	0.738	±	±
Innovative SMEs collaborating	±	0.335	±	±
Public-private co-publications	157.6	0.446	97	90
PCT patent applications	0.45	0.225	47	36
Trademark applications	2.66	0.194	38	43
Design applications	0.65	0.233	34	41
Employment knowledge-intensive activities	8.5	0.243	38	41
Employment innovative enterprises	±	0.636	±	±
Sales of innovative products	±	0.808	±	±
Air emissions by fine particulates	9.9	0.674	167	137
Average score	--	0.408	--	--
Country EIS-RIS correction factor	--	0.927	--	--
Regional Innovation Index 2021	--	0.379	--	--
RII 2021 (same year)	--	--	74.5	70.4
RII 2021 (cf. to EU 2014)	--	--	--	80.9
Regional Innovation Index 2014	--	0.287	--	--
RII 2014 (same year)	--	--	75.8	61.4
RII - change between 2014 and 2021	--	19.5	--	--

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

Sardegna (ITG2) is a Moderate Innovator -. Innovation performance has increased over time (19.5%).

The table on the left shows the normalised scores per indicator and relative results compared to Italy and the EU. The table also shows the Regional Innovation Index (RII) in 2021 compared to that of Italy 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 Italy (orange line) and the EU (blue line), showing relative strengths (e.g. Business process innovators) and weaknesses (e.g. R&D expenditures business sector).

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

	ITG2	IT	EU
Share of employment in:			
Agriculture & Mining (A-B)	6.0	4.0	4.6
Manufacturing (C)	6.6	18.6	16.4
Utilities & Construction (D-F)	8.5	7.5	8.2
Services (G-N)	70.0	64.6	62.9
Public administration (O-U)	9.0	5.4	7.1
Average number of employed persons per enterprise	2.8	3.8	5.2
GDP per capita (PPS)	21,700	29,800	31,200
GDP per capita growth (PPS)	2.32	2.98	3.21
Population density	68	202	109
Urbanisation	60.7	81.8	75.3
Population size (000s)	1,610	59,640	446,450

