

Regional Innovation Scoreboard 2021

Norte (PT11)

	Data	Normalised score	Relative to	
			PT	EU
Tertiary education	36.8	0.512	97	89
Lifelong learning	8.9	0.331	85	82
International scientific co-publications	1,714	0.671	104	119
Most-cited scientific publications	9.3	0.509	98	94
Above average digital skills	30.4	0.512	93	97
R&D expenditures public sector	0.70	0.470	111	97
R&D expenditures business sector	0.83	0.298	120	57
Non-R&D innovation expenditures	±	0.357	±	±
Innovation expenditures per person employed	±	0.320	±	±
Employed ICT specialists	2.6	0.312	68	62
Product innovators	±	0.543	±	±
Business process innovators	±	0.423	±	±
Innovative SMEs collaborating	±	0.261	±	±
Public-private co-publications	174.2	0.469	106	95
PCT patent applications	1.29	0.380	121	61
Trademark applications	8.66	0.638	124	140
Design applications	8.32	0.829	157	145
Employment knowledge-intensive activities	11.1	0.374	94	63
Employment innovative enterprises	±	0.385	±	±
Sales of innovative products	±	0.705	±	±
Air emissions by fine particulates	7.9	0.771	103	157
Average score	--	0.479	--	--
Country EIS-RIS correction factor	--	0.900	--	--
Regional Innovation Index 2021	--	0.432	--	--
RII 2021 (same year)	--	--	101.6	80.3
RII 2021 (cf. to EU 2014)	--	--	--	92.2
Regional Innovation Index 2014	--	0.377	--	--
RII 2014 (same year)	--	--	98.2	80.5
RII - change between 2014 and 2021	--	11.8	--	--

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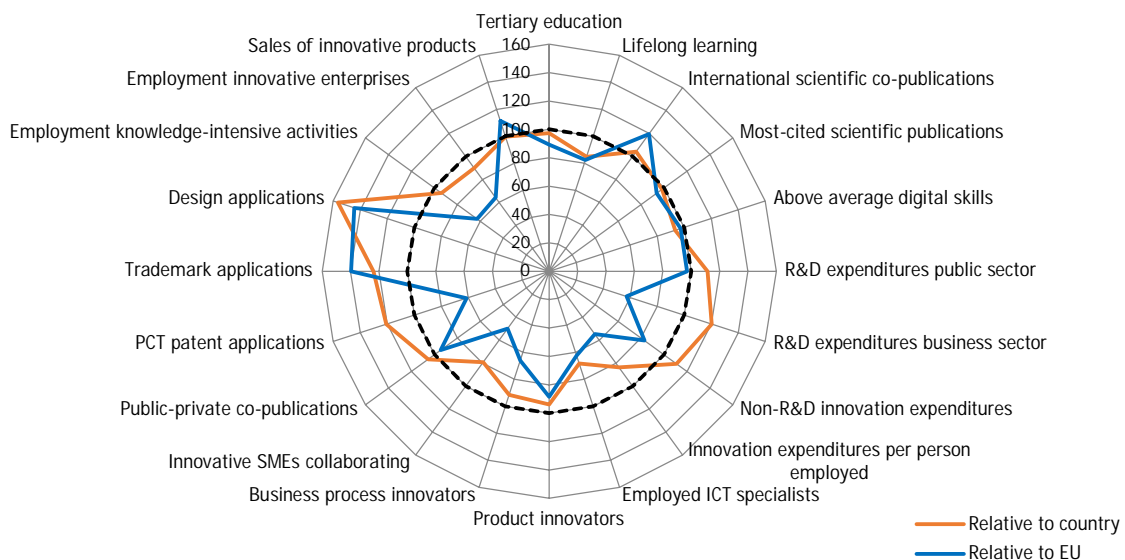
Norte (PT11) is a Moderate Innovator. Innovation performance has increased over time (11.8%).

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

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

	PT11	PT	EU
Share of employment in:			
Agriculture & Mining (A-B)	5.1	5.1	4.6
Manufacturing (C)	25.7	17.2	16.4
Utilities & Construction (D-F)	8.1	7.5	8.2
Services (G-N)	57.0	63.6	62.9
Public administration (O-U)	4.2	6.5	7.1
Average number of employed persons per enterprise	3.4	3.4	5.2
GDP per capita (PPS)	21,100	24,700	31,200
GDP per capita growth (PPS)	4.05	3.77	3.21
Population density	169	113	109
Urbanisation	81.9	76.5	75.3
Population size (000s)	3,580	10,300	446,450



Algarve (PT15)

	Data	Normalised score	Relative to	
			PT	EU
Tertiary education	30.5	0.362	69	63
Lifelong learning	8.3	0.309	79	77
International scientific co-publications	1,184	0.558	87	99
Most-cited scientific publications	7.8	0.416	80	76
Above average digital skills	31.6	0.540	98	103
R&D expenditures public sector	0.28	0.180	43	37
R&D expenditures business sector	0.06	0.022	9	4
Non-R&D innovation expenditures	±	0.248	±	±
Innovation expenditures per person employed	±	0.204	±	±
Employed ICT specialists	3.6	0.456	100	91
Product innovators	±	0.482	±	±
Business process innovators	±	0.489	±	±
Innovative SMEs collaborating	±	0.110	±	±
Public-private co-publications	177.9	0.474	107	96
PCT patent applications	0.66	0.273	87	44
Trademark applications	3.61	0.265	51	58
Design applications	1.01	0.290	55	50
Employment knowledge-intensive activities	5.2	0.078	19	13
Employment innovative enterprises	±	0.291	±	±
Sales of innovative products	±	0.370	±	±
Air emissions by fine particulates	7.1	0.810	109	165
Average score	--	0.344	--	--
Country EIS-RIS correction factor	--	0.900	--	--
Regional Innovation Index 2021	--	0.310	--	--
RII 2021 (same year)	--	--	72.9	57.6
RII 2021 (cf. to EU 2014)	--	--	--	66.2
Regional Innovation Index 2014	--	0.287	--	--
RII 2014 (same year)	--	--	74.8	61.3
RII - change between 2014 and 2021	--	4.9	--	--

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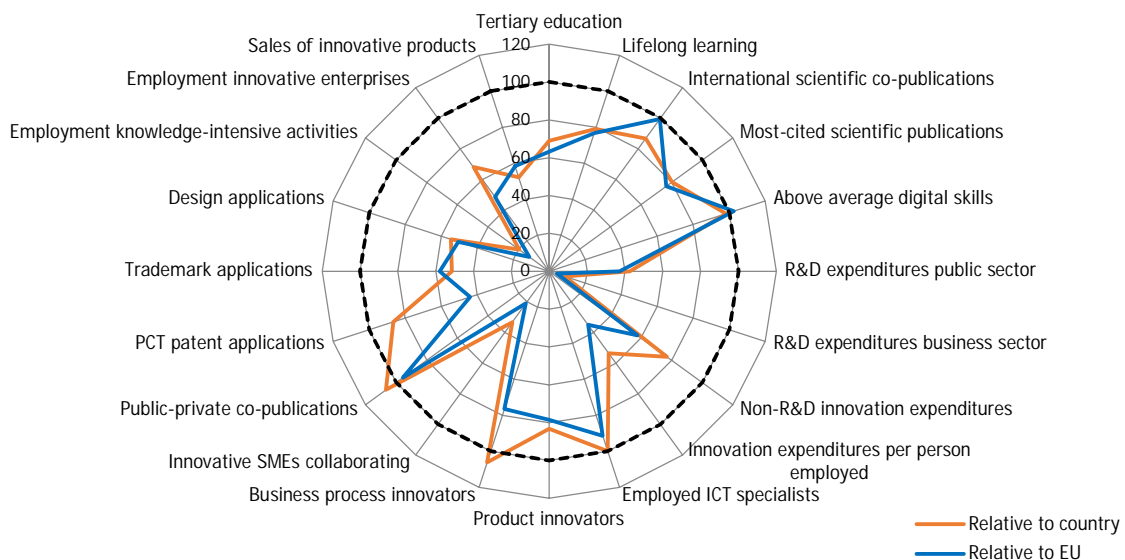
Algarve (PT15) is an Emerging Innovator +. Innovation performance has increased over time (4.9%).

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

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

	PT15	PT	EU
Share of employment in:			
Agriculture & Mining (A-B)	4.5	5.1	4.6
Manufacturing (C)	3.7	17.2	16.4
Utilities & Construction (D-F)	7.8	7.5	8.2
Services (G-N)	76.2	63.6	62.9
Public administration (O-U)	7.8	6.5	7.1
Average number of employed persons per enterprise	2.5	3.4	5.2
GDP per capita (PPS)	27,600	24,700	31,200
GDP per capita growth (PPS)	5.95	3.77	3.21
Population density	89	113	109
Urbanisation	72.3	76.5	75.3
Population size (000s)	440	10,300	446,450



Regional Innovation Scoreboard 2021

Centro (PT) (PT16)

	Data	Normalised score	Relative to	
			PT	EU
Tertiary education	39.4	0.574	109	100
Lifelong learning	10.9	0.406	104	101
International scientific co-publications	1,790	0.686	107	122
Most-cited scientific publications	9.6	0.525	101	97
Above average digital skills	30.4	0.512	93	97
R&D expenditures public sector	0.61	0.408	97	84
R&D expenditures business sector	0.68	0.244	99	47
Non-R&D innovation expenditures	±	0.366	±	±
Innovation expenditures per person employed	±	0.407	±	±
Employed ICT specialists	2.5	0.297	65	60
Product innovators	±	0.632	±	±
Business process innovators	±	0.506	±	±
Innovative SMEs collaborating	±	0.457	±	±
Public-private co-publications	179.0	0.475	107	96
PCT patent applications	0.89	0.316	101	51
Trademark applications	5.57	0.409	79	90
Design applications	2.00	0.407	77	71
Employment knowledge-intensive activities	9.0	0.269	67	45
Employment innovative enterprises	±	0.520	±	±
Sales of innovative products	±	0.664	±	±
Air emissions by fine particulates	7.2	0.806	108	164
Average score	--	0.471	--	--
Country EIS-RIS correction factor	--	0.900	--	--
Regional Innovation Index 2021	--	0.424	--	--
RII 2021 (same year)	--	--	99.7	78.8
RII 2021 (cf. to EU 2014)	--	--	--	90.5
Regional Innovation Index 2014	--	0.386	--	--
RII 2014 (same year)	--	--	100.7	82.6
RII - change between 2014 and 2021	--	8.0	--	--

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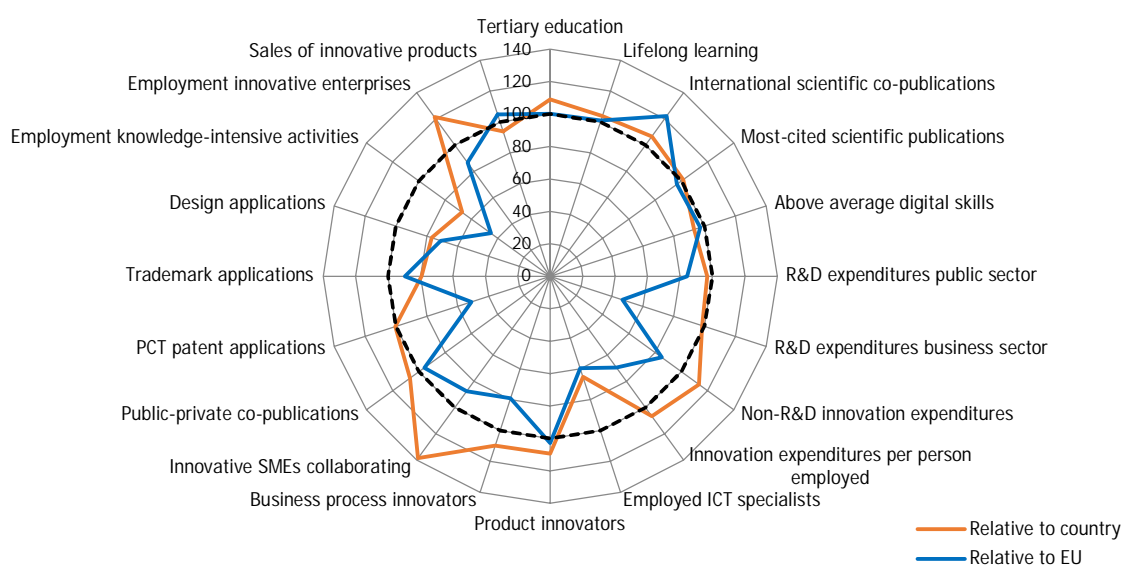
Centro (PT) (PT16) is a Moderate Innovator -. Innovation performance has increased over time (8%).

The table on the left shows the normalised scores per indicator and relative results compared to Portugal and the EU. The table also shows the Regional Innovation Index (RII) in 2021 compared to that of Portugal 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 Portugal (orange line) and the EU (blue line), showing relative strengths (e.g. International scientific co-publications) and weaknesses (e.g. Employment knowledge-intensive activities).

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).

	PT16	PT	EU
Share of employment in:			
Agriculture & Mining (A-B)	7.8	5.1	4.6
Manufacturing (C)	20.6	17.2	16.4
Utilities & Construction (D-F)	7.7	7.5	8.2
Services (G-N)	57.9	63.6	62.9
Public administration (O-U)	6.0	6.5	7.1
Average number of employed persons per enterprise	2.9	3.4	5.2
GDP per capita (PPS)	21,500	24,700	31,200
GDP per capita growth (PPS)	3.97	3.77	3.21
Population density	79	113	109
Urbanisation	56.3	76.5	75.3
Population size (000s)	2,220	10,300	446,450



Regional Innovation Scoreboard 2021

Lisboa (PT17)

	Data	Normalised score	Relative to	
			PT	EU
Tertiary education	42.1	0.638	121	111
Lifelong learning	13.5	0.503	129	125
International scientific co-publications	2,469	0.805	125	143
Most-cited scientific publications	8.9	0.485	94	89
Above average digital skills	35.3	0.623	114	118
R&D expenditures public sector	0.77	0.518	123	107
R&D expenditures business sector	0.82	0.294	119	57
Non-R&D innovation expenditures	±	0.276	±	±
Innovation expenditures per person employed	±	0.455	±	±
Employed ICT specialists	7.1	0.954	209	191
Product innovators	±	0.624	±	±
Business process innovators	±	0.512	±	±
Innovative SMEs collaborating	±	0.365	±	±
Public-private co-publications	265.4	0.579	130	117
PCT patent applications	0.73	0.287	91	46
Trademark applications	7.13	0.524	102	115
Design applications	1.26	0.323	61	56
Employment knowledge-intensive activities	17.2	0.681	171	114
Employment innovative enterprises	±	0.452	±	±
Sales of innovative products	±	0.717	±	±
Air emissions by fine particulates	10.9	0.627	84	128
Average score	--	0.535	--	--
Country EIS-RIS correction factor	--	0.900	--	--
Regional Innovation Index 2021	--	0.482	--	--
RII 2021 (same year)	--	--	113.5	89.7
RII 2021 (cf. to EU 2014)	--	--	--	103.0
Regional Innovation Index 2014	--	0.453	--	--
RII 2014 (same year)	--	--	118.1	96.8
RII - change between 2014 and 2021	--	6.2	--	--

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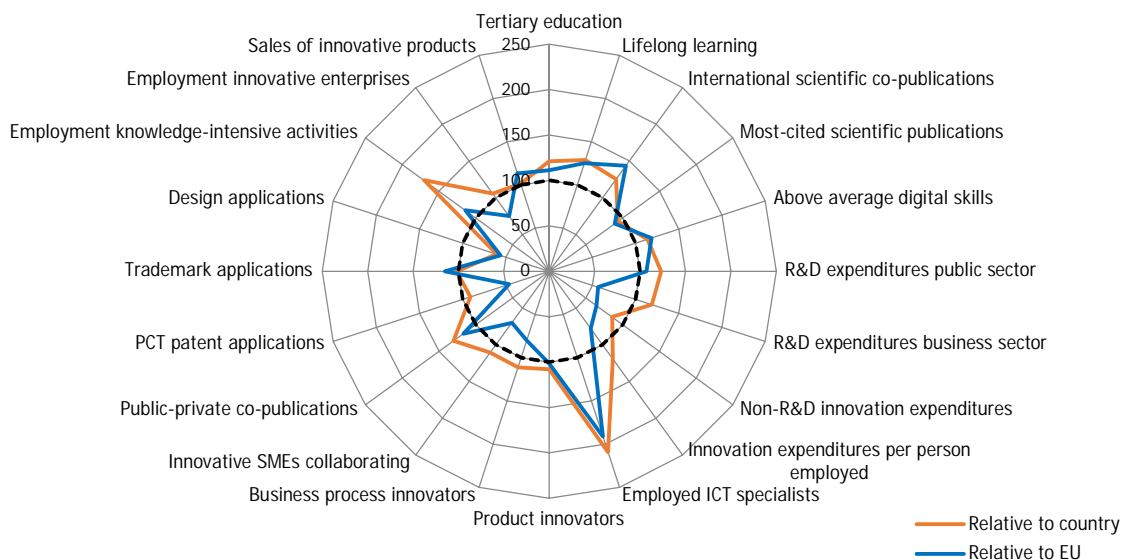
Lisboa (PT17) is a Moderate Innovator. Innovation performance has increased over time (6.2%).

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The radar graph shows relative strengths compared to Portugal (orange line) and the EU (blue line), showing relative strengths (e.g. Employed ICT specialists) and weaknesses (e.g. PCT patent applications).

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

	PT17	PT	EU
Share of employment in:			
Agriculture & Mining (A-B)	0.8	5.1	4.6
Manufacturing (C)	8.8	17.2	16.4
Utilities & Construction (D-F)	6.4	7.5	8.2
Services (G-N)	75.7	63.6	62.9
Public administration (O-U)	8.3	6.5	7.1
Average number of employed persons per enterprise	4.0	3.4	5.2
GDP per capita (PPS)	32,000	24,700	31,200
GDP per capita growth (PPS)	3.03	3.77	3.21
Population density	1,016	113	109
Urbanisation	99.2	76.5	75.3
Population size (000s)	2,860	10,300	446,450



Regional Innovation Scoreboard 2021

Alentejo (PT18)

	Data	Normalised score	Relative to	
			PT	EU
Tertiary education	29.4	0.336	64	59
Lifelong learning	10.1	0.376	96	94
International scientific co-publications	632	0.407	63	73
Most-cited scientific publications	6.5	0.333	64	61
Above average digital skills	29.5	0.493	90	94
R&D expenditures public sector	0.28	0.180	43	37
R&D expenditures business sector	0.39	0.140	57	27
Non-R&D innovation expenditures	±	0.342	±	±
Innovation expenditures per person employed	±	0.453	±	±
Employed ICT specialists	3.6	0.456	100	91
Product innovators	±	0.588	±	±
Business process innovators	±	0.469	±	±
Innovative SMEs collaborating	±	0.399	±	±
Public-private co-publications	59.6	0.274	62	55
PCT patent applications	0.55	0.249	79	40
Trademark applications	6.49	0.477	93	105
Design applications	0.36	0.172	32	30
Employment knowledge-intensive activities	7.7	0.203	51	34
Employment innovative enterprises	±	0.419	±	±
Sales of innovative products	±	0.751	±	±
Air emissions by fine particulates	6.5	0.839	112	171
Average score	--	0.398	--	--
Country EIS-RIS correction factor	--	0.900	--	--
Regional Innovation Index 2021	--	0.358	--	--
RII 2021 (same year)	--	--	84.3	66.7
RII 2021 (cf. to EU 2014)	--	--	--	76.6
Regional Innovation Index 2014	--	0.318	--	--
RII 2014 (same year)	--	--	83.0	68.0
RII - change between 2014 and 2021	--	8.6	--	--

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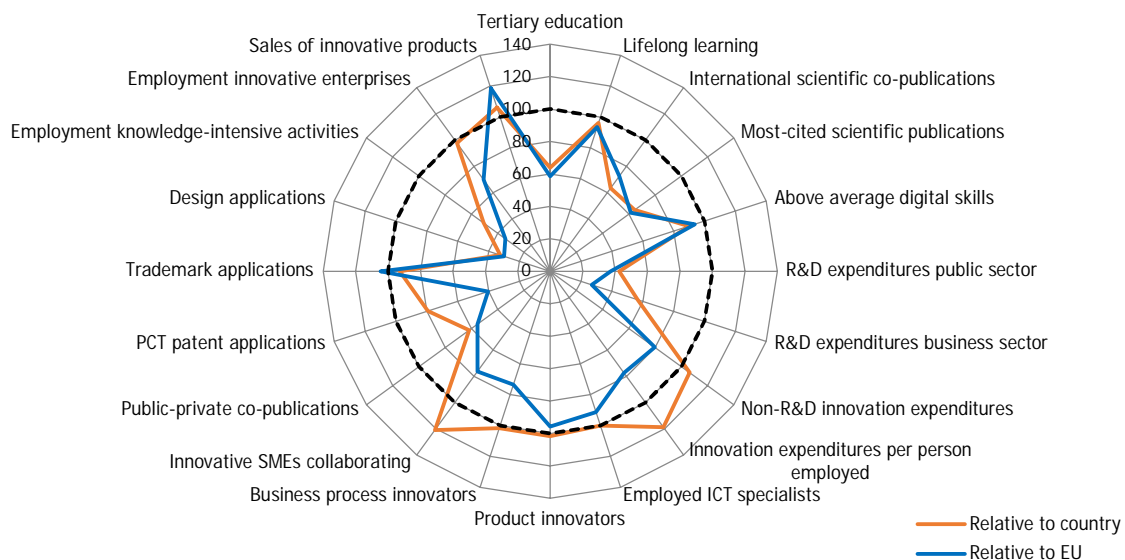
Alentejo (PT18) is an Emerging Innovator +. Innovation performance has increased over time (8.6%).

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The radar graph shows relative strengths compared to Portugal (orange line) and the EU (blue line), showing relative strengths (e.g. Trademark 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 Population density (below average).

	PT18	PT	EU
Share of employment in:			
Agriculture & Mining (A-B)	11.2	5.1	4.6
Manufacturing (C)	12.8	17.2	16.4
Utilities & Construction (D-F)	6.6	7.5	8.2
Services (G-N)	59.9	63.6	62.9
Public administration (O-U)	9.5	6.5	7.1
Average number of employed persons per enterprise	2.6	3.4	5.2
GDP per capita (PPS)	22,600	24,700	31,200
GDP per capita growth (PPS)	2.85	3.77	3.21
Population density	23	113	109
Urbanisation	30.8	76.5	75.3
Population size (000s)	700	10,300	446,450



Regional Innovation Scoreboard 2021

Região Autónoma dos Açores (PT) (PT2)

	Data	Normalised score	Relative to	
			PT	EU
Tertiary education	17.0	0.042	8	7
Lifelong learning	5.1	0.190	49	47
International scientific co-publications	840	0.470	73	84
Most-cited scientific publications	8.2	0.439	85	81
Above average digital skills	34.1	0.595	108	113
R&D expenditures public sector	0.27	0.173	41	36
R&D expenditures business sector	0.04	0.014	6	3
Non-R&D innovation expenditures	±	0.146	±	±
Innovation expenditures per person employed	±	0.132	±	±
Employed ICT specialists	3.6	0.456	100	91
Product innovators	±	0.353	±	±
Business process innovators	±	0.241	±	±
Innovative SMEs collaborating	±	0.302	±	±
Public-private co-publications	90.6	0.338	76	68
PCT patent applications	0.03	0.054	17	9
Trademark applications	2.45	0.178	35	39
Design applications	0.31	0.159	30	28
Employment knowledge-intensive activities	4.2	0.027	7	5
Employment innovative enterprises	±	0.184	±	±
Sales of innovative products	±	1.000	±	±
Air emissions by fine particulates	0.0	0.000	0	0
Average score	--	0.275	--	--
Country EIS-RIS correction factor	--	0.900	--	--
Regional Innovation Index 2021	--	0.247	--	--
RII 2021 (same year)	--	--	58.2	46.0
RII 2021 (cf. to EU 2014)	--	--	--	52.8
Regional Innovation Index 2014	--	0.217	--	--
RII 2014 (same year)	--	--	56.6	46.4
RII - change between 2014 and 2021	--	6.5	--	--

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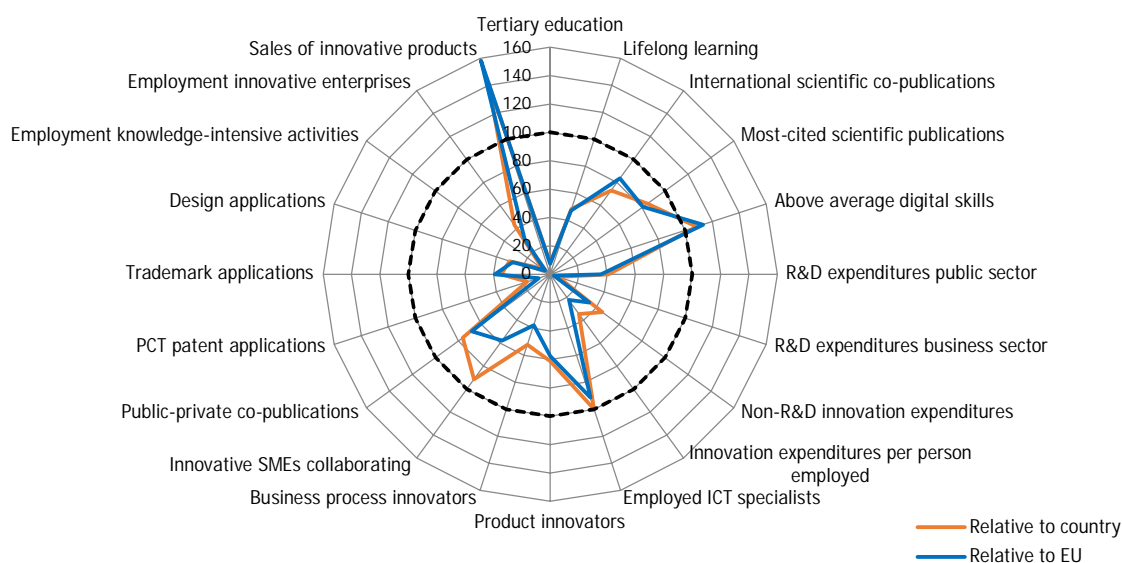
Região Autónoma dos Açores (PT) (PT2) is an Emerging Innovator. Innovation performance has increased over time (6.5%).

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The radar graph shows relative strengths compared to Portugal (orange line) and the EU (blue line), showing relative strengths (e.g. Above average digital skills) 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).

	PT2	PT	EU
Share of employment in:			
Agriculture & Mining (A-B)	9.7	5.1	4.6
Manufacturing (C)	6.8	17.2	16.4
Utilities & Construction (D-F)	9.7	7.5	8.2
Services (G-N)	61.3	63.6	62.9
Public administration (O-U)	12.5	6.5	7.1
Average number of employed persons per enterprise	2.9	3.4	5.2
GDP per capita (PPS)	21,900	24,700	31,200
GDP per capita growth (PPS)	3.48	3.77	3.21
Population density	105	113	109
Urbanisation	46.8	76.5	75.3
Population size (000s)	240	10,300	446,450



Regional Innovation Scoreboard 2021

Região Autónoma da Madeira (PT) (PT3)

	Data	Normalised score	Relative to	
			PT	EU
Tertiary education	33.7	0.438	83	76
Lifelong learning	8.9	0.331	85	82
International scientific co-publications	869	0.478	74	85
Most-cited scientific publications	5.9	0.292	56	54
Above average digital skills	34.1	0.595	108	113
R&D expenditures public sector	0.26	0.166	39	34
R&D expenditures business sector	0.12	0.043	17	8
Non-R&D innovation expenditures	±	0.220	±	±
Innovation expenditures per person employed	±	0.249	±	±
Employed ICT specialists	3.6	0.456	100	91
Product innovators	±	0.540	±	±
Business process innovators	±	0.433	±	±
Innovative SMEs collaborating	±	0.187	±	±
Public-private co-publications	82.6	0.323	73	65
PCT patent applications	0.08	0.096	31	16
Trademark applications	7.79	0.574	111	126
Design applications	0.70	0.241	46	42
Employment knowledge-intensive activities	3.8	0.007	2	1
Employment innovative enterprises	±	0.345	±	±
Sales of innovative products	±	0.382	±	±
Air emissions by fine particulates	0.0	0.000	0	0
Average score	--	0.320	--	--
Country EIS-RIS correction factor	--	0.900	--	--
Regional Innovation Index 2021	--	0.288	--	--
RII 2021 (same year)	--	--	67.8	53.6
RII 2021 (cf. to EU 2014)	--	--	--	61.5
Regional Innovation Index 2014	--	0.286	--	--
RII 2014 (same year)	--	--	74.6	61.1
RII - change between 2014 and 2021	--	0.4	--	--

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Região Autónoma da Madeira (PT) (PT3) is an Emerging Innovator +. Innovation performance has increased over time (0.4%).

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

The table below shows data highlighting possible structural differences, e.g. Population density (above average) and Average employed persons per enterprise (below average).

	PT3	PT	EU
Share of employment in:			
Agriculture & Mining (A-B)	8.8	5.1	4.6
Manufacturing (C)	n/a	17.2	16.4
Utilities & Construction (D-F)	9.7	7.5	8.2
Services (G-N)	67.9	63.6	62.9
Public administration (O-U)	9.1	6.5	7.1
Average number of employed persons per enterprise	2.9	3.4	5.2
GDP per capita (PPS)	23,800	24,700	31,200
GDP per capita growth (PPS)	3.68	3.77	3.21
Population density	318	113	109
Urbanisation	84.4	76.5	75.3
Population size (000s)	250	10,300	446,450

