

Conference on Regional Entrepreneurship and Innovation

Comparative analysis and evaluation of the competitiveness of the regions of Apulia and Western Greece

Why competitiveness?

- *“key determinant of growth and jobs in Europe” (EC, 1998).*
- *“set of institutions, policies and factors that determine the level of productivity of a country” (WEF, 2015).*
- *“Regional competitiveness is the ability of a region to offer an attractive and sustainable environment for firms and residents to live and work.” (Dijkstra et al., 2011).*

Competitive regions means entrepreneurial and innovative regions.

How to measure regional competitiveness

- Regional Competitiveness Index (RCI) introduced in 2010 by the EC and published every three years (2010, 2013, 2016 and 2019 so far).
- Methodologically it is based on the Global Competitiveness Index adopting 11 out of the 12 GCI pillars (Institutions, Infrastructure, Macroeconomic stability, Health, Basic education, Higher education and lifelong learning, Labour market efficiency, Market size, Technological readiness, Business sophistication and, Innovation).
- Data come from a wide range of sources to reflect regional (NUTS 2) level. 74 indicators used. Data refer to 2-3 years earlier.
- Scores are expressed as z-scores (-2.5 – 2.5, 0 being the average).

Overall competitiveness (Greece)

NUTS code	NUTS name	2010 score	2010 rank	2013 score	2013 rank	2016 score	2016 rank	2019 score	2019 rank
Gr30	Attiki	-0.152	154	-0.366	174	-0.564	193	-0.40	180
Gr41	Voreio Aigaio	-1.511	266	-1.264	243	-1.296	249	-1.61	268
Gr42	Notio Aigaio	-1.376	260	-1.376	257	-1.253	244	-1.39	259
Gr43	Kriti	-1.135	242	-1.201	240	-1.317	250	-1.26	250
Gr51	Anatoliki Makedonia-Thraki	-1.178	247	-1.371	256	-1.490	261	-1.45	265
Gr52	Kentriki Makedonia	-0.783	224	-1.114	238	-1.179	242	-1.06	239
Gr53	Dytiki Makedonia	-1.233	252	-1.403	258	-1.327	252	-1.44	263
Gr54	Ipeiros	-1.311	258	-1.265	244	-1.289	248	-1.29	251
Gr61	Thessalia	-1.026	238	-1.275	245	-1.284	247	-1.31	252
Gr62	Ionia Nisia	-1.465	263	-1.309	249	-1.364	256	-1.33	256
Gr63	Dytiki Ellada	-1.103	240	-1.317	250	-1.410	257	-1.43	262
Gr64	Stereia Ellada	-1.115	241	-1.417	260	-1.446	258	-1.32	254
Gr65	Peloponnisos	-1.172	245	-1.337	253	-1.443	258	-1.37	258

Overall competitiveness (Italy)

NUTS code	NUTS name	2010 score	2010 rank	2013 score	2013 rank	2016 score	2016 rank	2019 score	2019 rank
Itc1	Piemonte	-0.084	149	-0.198	152	-0.274	163	-0.24	167
Itc2	Valle d'Aosta	-0.674	212	-0.436	178	-0.442	177	-0.55	200
Itc3	Liguria	-0.255	170	-0.165	146	-0.314	167	-0.30	172
Itc4	Lombardia	0.211	95	0.013	128	-0.047	143	-0.07	145
lth1	Prov. Autonoma di Bolzano	-0.478	191	-0.356	173	-0.261	160	-0.35	176
lth2	Prov. Autonoma di Trento	-0.413	184	-0.162	145	-0.178	153	-0.14	155
lth3	Veneto	-0.067	146	-0.255	158	-0.322	169	-0.26	168
lth4	Friuli-Venezia Giulia	-0.275	172	-0.219	157	-0.268	162	-0.28	169
lth5	Emilia-Romagna	0.060	121	-0.090	141	-0.222	157	-0.18	162
Iti1	Toscana	-0.154	155	-0.269	160	-0.376	172	-0.32	173
Iti2	Umbria	-0.370	181	-0.335	167	-0.421	175	-0.44	184
Iti3	Marche	-0.362	180	-0.419	177	-0.463	180	-0.49	188
Iti4	Lazio	0.006	133	-0.125	143	-0.202	156	-0.18	163
Itf1	Abruzzo	-0.451	189	-0.516	187	-0.610	198	-0.69	213
Itf2	Molise	-0.788	225	-0.640	201	-0.673	209	-0.70	215
Itf3	Campania	-0.530	199	-0.764	217	-0.918	228	-0.91	232
Itf4	Puglia	-0.668	211	-0.880	232	-0.983	233	-1.00	235
Itf5	Basilicata	-0.918	235	-0.850	227	-0.853	226	-0.91	231
Itf6	Calabria	-0.772	222	-0.905	233	-1.055	235	-1.11	244
Itg1	Sicilia	-0.676	213	-0.961	235	-1.081	237	-1.09	241
Itg2	Sardegna	-0.915	234	-0.807	222	-0.920	228	-0.97	234

Pillar by pillar competitiveness: Institutions Greece (NUTS1 level)

NUTS code	NUTS name	2013 score	2013 rank	2016 score	2016 rank	2019 score
Gr30	Attiki	-0.88	222	-1.43	243	-1.35
Gr41	Voreio Aigaio	-1.11	233	-1.24	228	-1.47
Gr42	Notio Aigaio	-1.11	233	-1.24	228	-1.47
Gr43	Kriti	-1.11	233	-1.24	228	-1.47
Gr51	An.Makedonia-Thraki	-1.35	241	-1.36	233	-1.59
Gr52	Kentriki Makedonia	-1.35	241	-1.36	233	-1.59
Gr53	Dytiki Makedonia	-1.35	241	-1.36	233	-1.59
Gr61	Thessalia	-1.35	241	-1.36	233	-1.36
Gr54	Ipeiros	-1.11	228	-1.39	238	-1.59
Gr62	Ionia Nisia	-1.11	228	-1.39	238	-1.36
Gr63	Dytiki Ellada	-1.11	228	-1.39	238	-1.36
Gr64	Stereia Ellada	-1.11	228	-1.39	238	-1.36
Gr65	Peloponnisos	-1.11	228	-1.39	238	-1.36

Pillar by pillar competitiveness: Institutions Italy

NUTS code	NUTS name	2013 score	2013 rank	2016 score	2016 rank	2019 score
Itc1	Piemonte	-0.70	206	-1.13	225	-1.28
Itc2	Valle d'Aosta	-0.40	180	-0.53	186	-1.03
Itc3	Liguria	-0.87	221	-1.22	227	-1.30
Itc4	Lombardia	-0.87	225	-1.08	223	-0.94
Itlh1	Bolzano	-0.94	177	-0.37	168	-0.88
Itlh2	Trento	-0.44	181	-0.35	167	-0.88
Itlh3	Veneto	-0.87	220	-0.92	209	-0.92
Itlh4	Friuli-Ven. Giulia	-0.57	187	-0.66	199	-0.94
Itlh5	Emilia-Romana	-0.84	219	-0.93	210	-0.92
Iti1	Toscana	-0.91	224	-1.08	221	-1.11
Iti2	Umbria	-0.73	209	-1.06	219	-1.43
Iti3	Marche	-0.83	217	-1.08	221	-1.37
Iti4	Lazio	-1.21	238	-1.53	247	-1.44
Itf1	Abruzzo	-1.04	226	-1.33	232	-1.65
Itf2	Molise	-1.19	236	-1.60	251	-1.27
Itf3	Campania	-1.69	254	-1.86	260	-1.61
Itf4	Puglia	-1.41	247	-1.57	249	-1.45
Itf5	Basilicata	-1.20	237	-1.49	245	-1.50
Itf6	Calabria	-1.62	252	-1.61	252	-1.75
Itg1	Sicilia	-1.45	249	-1.56	248	-1.45
Itg2	Sardegna	-1.07	227	-1.43	243	-1.29

Pillar by pillar competitiveness: Infrastructure Greece

NUTS code	NUTS name	2010 score	2010 rank	2013 score	2013 rank	2016 score	2016 rank	2019 score
Gr11	A.M.Th.	-1.23	232	-1.25	244	-1.30	249	-1.54
Gr12	K.Mak.	-0.64	212	-0.96	197	-1.01	203	-0.84
Gr13	D.Mak.	-1.72	243	-1.22	239	-1.27	243	-1.60
Gr14	Thess.	-1.23	233	-1.25	245	-1.18	227	-1.31
Gr21	Ipeiros	-3.16	255	-1.29	251	-1.35	252	-1.77
Gr22	Ion.N.	-3.44	260	-1.27	248	-1.36	253	-1.03
Gr23	D.Ellas	-1.22	231	-1.30	252	-1.36	253	-1.54
Gr24	St.Ell.	-0.24	175	-0.91	188	-1.04	210	-1.03
Gr25	Pelop.	-0.44	193	-1.02	206	-1.10	218	-0.97
Gr30	Attiki	-0.13	162	-0.32	111	-0.51	145	0.25
Gr41	V.Aig.	-3.52	261	-1.32	255	-1.38	255	-0.88
Gr42	N.Aig.	-3.36	259	-1.26	247	-1.46	258	-0.97
Gr43	Kriti	-3.15	254	-1.10	228	-1.24	238	-1.23

Pillar by pillar competitiveness: Infrastructure Italy

NUTS code	NUTS name	2010 score	2010 rank	2013 score	2013 rank	2016 score	2016 rank	2019 score
ltc1	Piemonte	0.43	73	0.28	70	47.70	82	0.44
ltc2	Valle d'Aosta	0.43	74	-0.20	103	31.22	136	-0.82
ltc3	Liguria	0.38	81	0.02	90	38.65	112	0.20
ltc4	Lombardia	0.23	109	0.78	44	53.62	69	0.17
ltd1	Bolzano	-0.06	149	-0.47	132	-0.56	150	-1.52
ltd2	Trento	-2.96	253	-0.34	113	-0.26	121	-1.40
ltd3	Veneto	0.16	117	0.15	80	0.13	87	-0.14
ltd4	Friuli-Ven.	0.06	128	-0.40	122	-0.35	131	-0.45
ltd5	Emilia-Romana	0.10	123	0.20	76	0.33	73	-0.23
lte1	Toscana	0.01	139	-0.21	104	-0.05	104	-0.44
lte2	Umbria	-0.14	165	-0.40	121	-0.46	143	-0.89
lte3	Marche	-0.44	194	-0.73	154	-0.60	157	-0.58
lte4	Lazio	0.26	106	0.33	67	0.44	65	0.49
ltf1	Abruzzo	-0.01	144	-0.64	144	-0.64	161	-0.71
ltf2	Molise	-0.08	152	-0.84	177	-0.68	164	-1.33
ltf3	Campania	-0.08	153	-0.33	112	-0.38	134	-0.07
ltf4	Puglia	-0.50	197	-0.83	171	-0.73	171	-0.41
ltf5	Basilicata	-0.53	200	-0.89	184	-1.00	201	-1.23
ltf6	Calabria	-0.37	189	-1.05	211	-0.92	194	-0.71
ltg1	Sicilia	-0.22	174	-0.95	194	-1.02	207	-0.38
ltg2	Sardegna	-1.57	240	-1.16	231	-1.17	225	-0.90

Pillar by pillar competitiveness: Higher education and lifelong learning Greece

NUTS code	NUTS name	2010 score	2010 rank	2013 score	2013 rank	2016 score	2016 rank	2019 score
Gr11	A.M.Th.	-0.95	237	-1.22	230	-1.25	246	-0.93
Gr12	K.Mak.	-0.31	174	-0.83	212	-0.23	163	-0.18
Gr13	D.Mak.	-0.83	227	-1.65	251	-0.49	191	-0.56
Gr14	Thess.	-0.89	232	-1.28	236	-0.32	171	-0.36
Gr21	Ipeiros	-0.83	228	-1.26	234	-0.52	193	-0.21
Gr22	Ion.N.	-1.64	258	-1.69	253	-0.92	225	-0.42
Gr23	D.Ellas	-0.63	213	-1.33	237	-0.61	199	-0.69
Gr24	St.Ell.	-1.36	252	-1.75	255	-1.06	236	-0.90
Gr25	Pelop.	-1.37	253	-1.77	256	-0.98	230	-0.88
Gr30	Attiki	0.37	60	-0.16	142	0.21	101	0.42
Gr41	V.Aig.	-1.43	254	-1.41	242	-0.40	181	-0.98
Gr42	N.Aig.	-1.57	256	-2.02	258	-1.13	239	-0.93
Gr43	Kriti	-0.91	234	-1.46	244	-0.85	220	-0.58

Pillar by pillar competitiveness: Higher education and lifelong learning Italy

NUTS code	NUTS name	2010 score	2010 rank	2013 score	2013 rank	2016 score	2016 rank	2019 score
Itc1	Piemonte	-0.71	221	-0.85	213	-0.86	221	-0.80
Itc2	Valle d'Aosta	-2.15	265	-1.60	250	-1.18	242	-1.18
Itc3	Liguria	-0.54	209	-0.48	172	-0.72	208	-0.69
Itc4	Lombardia	-0.38	186	-0.65	194	-0.75	215	-0.72
Itld1	Bolzano	-1.84	260	-1.27	235	-0.74	212	-0.62
Itld2	Trento	-0.67	217	-0.61	189	-0.41	181	-0.28
Itld3	Veneto	-0.51	203	-0.81	211	-0.67	202	-0.63
Itld4	Friuli-Ven.	-0.52	204	-0.57	180	-0.58	196	-0.40
Itld5	Emilia-Romana	-0.34	177	-0.48	173	-0.73	211	-0.55
Ite1	Toscana	-0.45	196	-0.61	190	-0.83	217	-0.65
Ite2	Umbria	-0.38	187	-0.34	160	-0.37	175	-0.36
Ite3	Marche	-0.65	216	-0.74	204	-0.60	197	-0.64
Ite4	Lazio	0.08	108	-0.38	163	-0.47	189	-0.42
Itf1	Abruzzo	-0.38	188	-0.37	161	-0.55	195	-0.78
Itf2	Molise	-0.80	225	-0.55	179	-0.69	207	-0.80
Itf3	Campania	-0.68	219	-0.85	214	-1.32	251	-1.48
Itf4	Puglia	-0.91	235	-1.08	226	-1.25	246	-1.52
Itf5	Basilicata	-1.26	249	-1.24	232	-0.82	216	-0.95
Itf6	Calabria	-1.03	240	-1.22	231	-1.06	236	-1.30
Itg1	Sicilia	-1.05	241	-1.38	240	-1.59	256	-1.82
Itg2	Sardegna	-1.12	245	-1.06	222	-1.39	253	-1.51

Pillar by pillar competitiveness: Labor market efficiency Greece

NUTS code	NUTS name	2010 score	2010 rank	2013 score	2013 rank	2016 score	2016 rank	2019 score
Gr11	A.M.Th.	-1.34	250	-1.79	255	-1.90	249	-1.90
Gr12	K.Mak.	-1.20	246	-1.63	250	-2.02	257	-1.88
Gr13	D.Mak.	-1.56	259	-1.80	256	-2.01	255	-2.53
Gr14	Thess.	-1.11	244	-1.71	253	-2.20	262	-2.16
Gr21	Ipeiros	-1.46	255	-1.57	246	-1.85	247	-1.85
Gr22	Ion.N.	-0.81	230	-1.12	240	-1.92	250	-1.67
Gr23	D.Ellas	-1.49	256	-1.71	254	-2.25	263	-2.41
Gr24	St.Ell.	-1.23	249	-2.06	260	-2.16	261	-2.29
Gr25	Pelop.	-0.99	239	-1.26	243	-2.11	259	-2.01
Gr30	Attiki	-0.36	185	-0.89	227	-1.36	241	-1.38
Gr41	V.Aig.	-0.89	235	-1.46	244	-1.99	254	-1.98
Gr42	N.Aig.	-0.74	224	-1.11	237	-0.83	229	-1.28
Gr43	Kriti	-0.69	219	-1.08	235	-1.66	245	-1.66

Pillar by pillar competitiveness: Labor market efficiency Italy

NUTS code	NUTS name	2010 score	2010 rank	2013 score	2013 rank	2016 score	2016 rank	2019 score
Itc1	Piemonte	-0.01	135	-0.05	150	-0.28	178	-0.31
Itc2	Valle d'Aosta	0.51	76	0.60	69	0.18	128	-0.06
Itc3	Liguria	-0.14	154	0.20	120	-0.21	175	-0.39
Itc4	Lombardia	0.37	97	0.12	128	0.03	144	-0.19
Itld1	Bolzano	0.94	32	0.75	50	0.68	52	0.40
Itld2	Trento	0.47	81	0.46	85	0.06	142	0.03
Itld3	Veneto	0.21	112	0.07	138	-0.34	185	-0.33
Itld4	Friuli-Ven.	-0.03	138	0.17	125	-0.10	158	-0.32
Itld5	Emilia-Romana	0.56	69	0.30	108	-0.14	162	-0.19
Ite1	Toscana	-0.16	156	-0.07	155	-0.35	186	-0.28
Ite2	Umbria	-0.16	156	-0.14	161	-0.48	202	-0.65
Ite3	Marche	0.04	120	-0.10	159	-0.45	199	-0.57
Ite4	Lazio	-0.54	200	-0.33	183	-0.43	196	-0.60
Itf1	Abruzzo	-0.61	212	-0.58	203	-0.97	231	-1.26
Itf2	Molise	-1.13	245	-0.78	221	-0.72	219	-0.94
Itf3	Campania	-1.63	261	-1.87	257	-1.95	252	-2.08
Itf4	Puglia	-1.54	258	-1.63	249	-1.96	252	-1.97
Itf5	Basilicata	-1.43	254	-1.11	238	-1.19	237	-1.35
Itf6	Calabria	-1.49	257	-1.18	241	-2.01	255	-2.05
Itg1	Sicilia	-1.64	262	-1.68	251	-1.87	248	-2.08
Itg2	Sardegna	-1.36	251	-0.97	230	-1.04	235	-1.30

Pillar by pillar competitiveness: Technological readiness Greece

NUTS code	NUTS name	2010 score enter	2010 score house	2013 score house	2013 rank house	2013 score total	2013 rank total	2016 score	2016 rank	2019 score
Gr11	A.M.Th.	-1.21	-1.80	-1.63	241	-1.38	240	-1.44	243	-1.74
Gr12	K.Mak.	-1.21	-1.80	-1.63	241	-1.38	240	-1.44	243	-1.74
Gr13	D.Mak.	-1.21	-1.80	-1.63	241	-1.38	240	-1.44	243	-1.74
Gr14	Thess.	-1.21	-1.80	-1.63	241	-1.38	240	-1.60	248	-1.98
Gr21	Ipeiros	-1.29	-2.13	-2.07	251	-1.60	246	-1.44	243	-1.74
Gr22	Ion.N.	-1.29	-2.13	-2.07	251	-1.60	246	-1.60	248	-1.98
Gr23	D.Ellas	-1.29	-2.13	-2.07	251	-1.60	246	-1.60	248	-1.98
Gr24	St.Ell.	-1.29	-2.13	-2.07	251	-1.60	246	-1.60	248	-1.98
Gr25	Pelop.	-1.29	-2.13	-2.07	251	-1.60	246	-1.60	248	-1.98
Gr30	Attiki	-0.75	-0.86	-0.92	218	-1.02	226	-1.09	232	-1.14
Gr41	V.Aig.	-1.18	-1.74	-1.56	238	-1.35	236	-1.33	236	-1.91
Gr42	N.Aig.	-1.18	-1.74	-1.56	238	-1.35	236	-1.33	236	-1.91
Gr43	Kriti	-1.18	-1.74	-1.56	238	-1.35	236	-1.33	236	-1.91

Pillar by pillar competitiveness: Technological readiness Italy

NUTS code	NUTS name	2010 score enterpr	2010 score house	2013 score house	2013 rank house	2013 score total	2013 rank total	2016 score	2016 rank	2019 score
Itc1	Piemonte	-0.65	-1.02	-0.91	216	-1.04	227	-0.98	226	-0.72
Itc2	Valle d'Aosta	-0.62	-1.05	-0.76	202	-0.97	221	-0.99	226	-0.93
Itc3	Liguria	-0.66	-1.06	-1.14	229	-1.16	230	-1.01	228	-0.70
Itc4	Lombardia	-0.45	-0.75	-0.64	184	-0.91	212	-0.86	200	-0.60
Itld1	Bolzano	-0.45	-0.75	-0.63	183	-0.91	211	-0.73	194	-0.66
Itld2	Trento	-0.50	-0.75	-0.58	180	-0.88	209	-0.75	195	-0.49
Itld3	Veneto	-0.57	-0.91	-0.82	208	-1.00	224	-0.90	208	-0.64
Itld4	Friuli-Ven.	-0.51	-0.77	-0.77	203	-0.97	222	-0.78	196	-0.78
Itld5	Emilia-Romana	-0.45	-0.79	-0.74	200	-0.96	219	-0.81	197	-0.52
Ite1	Toscana	-0.60	-0.77	-0.71	197	-0.94	218	-0.91	210	-0.63
Ite2	Umbria	-0.57	-0.90	-0.95	220	-1.06	228	-0.95	222	-0.79
Ite3	Marche	-0.61	-0.74	-0.75	201	-0.96	220	-0.89	203	-0.63
Ite4	Lazio	-0.46	-0.71	-0.78	205	-0.98	223	-0.93	213	-0.71
Itf1	Abruzzo	-0.69	-0.97	-1.02	221	-1.10	229	-1.07	231	-0.91
Itf2	Molise	-0.75	-1.35	-1.38	233	-1.28	232	-1.19	233	-1.37
Itf3	Campania	-0.75	-1.20	-1.40	234	-1.29	233	-1.31	235	-1.27
Itf4	Puglia	-0.83	-1.54	-1.72	245	-1.45	245	-1.30	234	-1.22
Itf5	Basilicata	-0.75	-1.50	-1.50	236	-1.34	235	-1.35	240	-1.12
Itf6	Calabria	-0.86	-1.54	-1.48	235	-1.33	234	-1.41	241	-1.40
Itg1	Sicilia	-0.86	-1.35	-1.54	237	-1.36	239	-1.41	241	-1.38
Itg2	Sardegna	-0.63	-0.99	-0.83	209	-1.00	225	-0.92	212	-0.67

Pillar by pillar competitiveness: Business sophistication Greece

NUTS code	NUTS name	2010 score	2010 rank	2013 score	2013 rank	2016 score	2016 rank	2019 score
Gr11	A.M.Th.	-0.93	220	-1.40	236	-0.97	220	-0.65
Gr12	K.Mak.	-1.08	238	-0.84	186	-0.27	150	-0.12
Gr13	D.Mak.	-1.29	250	-1.85	260	-1.10	228	-0.53
Gr14	Thess.	-1.11	240	-1.13	211	-0.39	164	-0.64
Gr21	Ipeiros	-1.28	248	-1.12	209	-0.96	218	-0.67
Gr22	Ion.N.	-1.53	263	-0.93	192	-0.55	184	-0.39
Gr23	D.Ellas	-1.31	252	-1.06	206	-0.57	187	-0.33
Gr24	St.Ell.	-1.35	256	-1.55	247	-0.87	212	-0.73
Gr25	Pelop.	-1.60	266	-1.14	213	-0.80	204	-0.47
Gr30	Attiki	-0.35	146	0.57	38	0.86	27	0.66
Gr41	V.Aig.	-1.50	260	-1.15	215	-0.86	209	-0.48
Gr42	N.Aig.	-1.50	261	-1.39	235	-1.12	231	-0.77
Gr43	Kriti	-1.56	264	-1.05	203	-0.78	202	0.11

Pillar by pillar competitiveness: Business sophistication Italy

NUTS code	NUTS name	2010 score	2010 rank	2013 score	2013 rank	2016 score	2016 rank	2019 score
ltc1	Piemonte	0.44	45	0.38	52	0.21	82	0.12
ltc2	Valle d'Aosta	-0.54	174	-0.45	161	-0.36	160	-0.36
ltc3	Liguria	-0.30	139	0.65	33	0.22	80	-0.01
ltc4	Lombardia	0.87	20	0.64	35	0.40	59	0.32
ltd1	Bolzano	-0.56	175	-0.39	154	-0.57	187	-0.38
ltd2	Trento	-0.47	166	-0.01	99	-0.10	127	0.24
ltd3	Veneto	0.21	60	-0.01	98	-0.21	143	-0.04
ltd4	Friuli-Ven.	-0.15	114	0.44	45	0.06	103	0.03
ltd5	Emilia-Romana	0.34	52	0.33	56	-0.14	134	-0.22
lte1	Toscana	0.11	69	0.29	59	0.02	110	-0.01
lte2	Umbria	-0.62	181	0.09	82	-0.30	154	-0.01
lte3	Marche	-0.46	165	-0.03	106	-0.39	164	-0.35
lte4	Lazio	0.45	42	0.80	22	0.59	44	0.36
ltf1	Abruzzo	-0.98	226	-0.33	145	-0.48	178	-0.37
ltf2	Molise	-0.93	221	-0.40	155	-0.57	187	-0.42
ltf3	Campania	-0.48	169	0.11	78	-0.38	163	-0.48
ltf4	Puglia	-0.96	223	-0.01	97	-0.45	171	-0.32
ltf5	Basilicata	-0.98	227	-0.42	159	-0.83	207	-0.82
ltf6	Calabria	-1.57	265	-0.12	114	-0.60	192	-0.48
ltg1	Sicilia	-1.02	230	0.01	88	-0.57	187	-0.41
ltg2	Sardegna	-1.09	239	-0.03	104	-0.51	180	-0.17

Pillar by pillar competitiveness: Innovation Greece

NUTS code	NUTS name	2010 score	2010 rank	2013 score	2013 rank	2016 score	2016 rank	2019 score
Gr11	A.M.Th.	-1.41	247	-1.10	239	-1.51	253	-1.45
Gr12	K.Mak.	-0.71	191	-0.73	188	-0.96	210	-0.93
Gr13	D.Mak.	-1.40	246	-0.90	212	-1.37	250	-1.49
Gr14	Thess.	-1.07	221	-0.98	226	-1.36	248	-1.31
Gr21	Ipeiros	-0.88	208	-0.73	187	-1.02	219	-1.08
Gr22	Ion.N.	-1.80	265	-1.32	251	-1.54	255	-1.84
Gr23	D.Ellas	-1.01	219	-0.74	189	-1.04	222	-1.05
Gr24	St.Ell.	-1.62	256	-1.41	258	-1.72	260	-1.52
Gr25	Pelop.	-1.57	252	-1.38	257	-1.54	257	-1.68
Gr30	Attiki	-0.21	147	-0.05	109	-0.17	132	-0.11
Gr41	V.Aig.	-1.17	236	-0.98	225	-0.93	206	-1.39
Gr42	N.Aig.	-1.55	250	-1.33	253	-1.53	255	-1.97
Gr43	Kriti	-0.64	188	-0.83	203	-1.07	229	-0.93

Pillar by pillar competitiveness: Innovation Italy

NUTS code	NUTS name	2010 score	2010 rank	2013 score	2013 rank	2016 score	2016 rank	2019 score
Itc1	Piemonte	0.15	99	-0.08	113	0.00	110	-0.13
Itc2	Valle d'Aosta	-0.49	171	-0.70	181	-0.54	173	-0.93
Itc3	Liguria	0.18	95	-0.15	122	-0.08	121	-0.06
Itc4	Lombardia	0.29	82	0.01	98	0.08	97	-0.04
Itld1	Bolzano	-0.48	170	-0.54	167	-0.52	172	-0.80
Itld2	Trento	-0.17	144	-0.14	120	-0.14	128	-0.02
Itld3	Veneto	-0.25	153	-0.39	151	-0.44	163	-0.44
Itld4	Friuli-Ven.	-0.06	132	-0.28	135	-0.05	117	-0.13
Itld5	Emilia-Romana	0.07	110	-0.26	133	-0.01	112	-0.05
Ite1	Toscana	-0.03	128	-0.31	145	-0.32	149	-0.36
Ite2	Umbria	-0.47	169	-0.72	185	-0.64	183	-0.45
Ite3	Marche	-0.51	174	-0.77	196	-0.48	168	-0.64
Ite4	Lazio	0.23	89	0.25	73	0.10	94	0.26
Itf1	Abruzzo	-0.37	161	-0.76	195	-0.63	181	-0.50
Itf2	Molise	-0.90	210	-1.10	241	-0.89	200	-0.53
Itf3	Campania	-0.54	178	-0.58	172	-0.79	193	-0.66
Itf4	Puglia	-0.77	198	-0.92	216	-1.06	227	-1.05
Itf5	Basilicata	-0.74	194	-1.08	237	-0.99	215	-0.70
Itf6	Calabria	-0.91	212	-1.11	243	-1.23	239	-1.06
Itg1	Sicilia	-0.49	172	-0.90	211	-1.10	230	-0.90
Itg2	Sardegna	-0.73	193	-1.00	230	-1.16	236	-0.99

Conclusions

- Dytiki Ellada should give priority to the improvement of: Labour market efficiency, Technological readiness, Institutions and, Infrastructure.
- Puglia needs to address in priority: Labor market efficiency, Higher education and lifelong training, Institutions and, Innovation