

## Appendix A

Table A1

**Description of the Data for the Research**

Variable		Source of the data	Notes
Full name	Short name		
Regional per capita gross domestic product at constant prices	gdp	Eurostat	The main source of the data is <i>ESA 2010 (reg_eco10gdp)</i> , subsection for <i>Gross domestic product (GDP) at current market prices by NUTS3 regions (nama_10r_3gdp)</i> . To correct the changes at price levels over time, we used <i>Price index (implicit deflator), 2010=100, euro (PD10_EUR)</i> . To calculate per capita GDP we used <i>Average annual population to calculate regional GDP data (thousand persons) by NUTS 3 regions (nama_10r_3popgdp)</i> . Data for per capita GDP and population in aforementioned Eurostat data sources is not available prior to 2000. Data for 1995–1999 on <i>Gross domestic product (GDP) at current market prices at NUTS level 3</i> and <i>Average annual population</i> was retrieved from <i>nama_r_e3gdp</i> and <i>demo_r_d3avg</i> datasets that were available on Eurostat previously and merged with currently available dataset.
Share of value added created in agriculture sector Share of value added created in industry sector Share of value added created in service sector	Agriculture Industry Service	Eurostat	The main source of the data is <i>Gross value added at basic prices by NUTS 3 regions (nama_10r_3gva)</i> . Data in aforementioned Eurostat data sources is not available prior to 2000. Data for 1995 – 1999 on <i>Gross value added at basic prices at NUTS level 3</i> was retrieved from <i>nama_r_e3vabp95</i> .
Dummy variable for capital region Dummy variable for costal region Dummy variable for region with a port Dummy variable for urban region Dummy variable for rural region	Capital dummy Costal dummy Port dummy Urban dummy Rural dummy	Eurostat	Information for NUTS 3 typologies and local information were collected from <i>Regional typologies and local information corresponding to NUTS 3</i> (available at: < <a href="http://ec.europa.eu/eurostat/documents/345175/6807882/Ttypologies+and+local+information+corresponding+to+NUTS3.xls">http://ec.europa.eu/eurostat/documents/345175/6807882/Ttypologies+and+local+information+corresponding+to+NUTS3.xls</a> >).
Treatment dummy Treatment intensity	dT Tint	European Commission	Concerning ERDF and CF, DG REGIO has carried out some analyses reflecting on allocations and expenditures at NUTS3 levels across time. The data resulting from these analyses is published on the "Data for research" page of EC website < <a href="http://ec.europa.eu/regional_policy/en/policy/evaluations/data-for-research/">http://ec.europa.eu/regional_policy/en/policy/evaluations/data-for-research/</a> >. In particular, for the period 2000-2006, you can refer to the following link: < <a href="http://ec.europa.eu/regional_policy/sources/docgener/evaluation/pdf/expost2006/expenditure_final_annex1.xls">http://ec.europa.eu/regional_policy/sources/docgener/evaluation/pdf/expost2006/expenditure_final_annex1.xls</a> > (Breakdown by NUTS3 level regions and sectors). Please note that all data is the result of estimation procedures. The details of the procedure and its limitations are described in the Report available at: < <a href="http://ec.europa.eu/regional_policy/sources/docgener/evaluation/pdf/expost2006/expenditure_final.pdf">http://ec.europa.eu/regional_policy/sources/docgener/evaluation/pdf/expost2006/expenditure_final.pdf</a> >.

Source: Composed by authors.

Table A2

## Assignment of Regions into Control and Treatment Groups and Treatment Intensity

Fun/expenditure category	Number of regions in		p-value* of testing H0: trends of changes are equal	Funding intensity in treatment group over policy intervention (2000 – 2006) period Funding-to-GDP ratio (%)		
	Control group	Treatment group		Min.	Average	Max.
All funds and all expenditure categories	244	1 007	0.0385	0.000157	0.50429	13.506
1. ERDF Objective 1 (all expenditure categories)	837	414	0.0041	0.0000165	0.8266	12.376
1.1. Productive environment	838	413	0.0073	0.0000165	0.26806	2.7806
1.2. Human resources	1 025	226	0.0152	0.0000977	0.026831	0.40655
1.3. Basic infrastructure	843	408	0.0269	0.00035604	0.53847	9.6107
1.4. Miscellaneous	884	367	0.0002	0.000000269	0.015715	0.24877
2. ERDF Objective 2 (all expenditure categories)	712	539	0.0282	0.00007	0.078011	0.42617
2.1. Productive environment	714	537	<0.0000	0.0000143	0.050923	0.33620
2.2. Human resources	1 051	200	0.0062	0.000000321	0.0045651	0.033262
2.3. Basic infrastructure	772	479	0.0109	0.0000189	0.026861	0.29975
2.4. Miscellaneous	803	448	0.0302	0.00000803	0.0020597	0.042162
3. Cohesion fund (all expenditure categories)	1 006	245	0.0080	0.010217	0.44076	2.7355
3.1. Productive environment						
3.2. Human resources						
3.3. Basic infrastructure	1 006	245	0.0147	0.0072947	0.43704	2.7355
3.4. Miscellaneous	1 131	120	0.0348	0.0000962	0.0075874	0.13914
4. ERDF Urban (all expenditure categories)	1 171	80	0.0271	0.0000057	0.014437	0.12237
4.1. Productive environment	1 185	66	0.0022	0.00000499	0.0030871	0.025497
4.2. Human resources	1 181	70	0.0419	0.00000206	0.0024767	0.013445
4.3. Basic infrastructure	1 175	76	0.0330	0.00019551	0.0092983	0.10953
4.4. Miscellaneous	1 178	73	0.0063	0.00000364	0.00097517	0.0067776
5. ERDF INTERREG IIIA (all expenditure categories)	829	422	0.0134	0.00075	0.03416	0.80787
5.1. Productive environment	829	422	0.0121	0.00041239	0.012210	0.52220
5.2. Human resources	841	410	<0.0000	0.0000462	0.0023949	0.039610
5.3. Basic infrastructure	829	422	0.0053	0.0000792	0.016747	0.29187
5.4. Miscellaneous	830	421	0.0110	0.00000637	0.0028850	0.044615
Productive environment (all funds ERDF + CF)	246	1 005	0.0106	0.00010066	0.14268	2.7806
Human resources (all funds ERDF + CF)	540	711	0.0273	0.00000044	0.011437	0.40655
Basic infrastructure (all funds ERDF + CF)	285	966	0.0478	0.0000286	0.35964	10.740
Miscellaneous (all funds ERDF + CF)	326	925	0.0134	0.000000269	0.0096069	0.25676

Note: \* A low p-value counts against the null hypothesis that the trends of per capita GDP change are equal for control and treatment groups.

Source: Composed by authors.

## Appendix B

Table A3

### Index of Estimations Presented in Appendix C

Fund/expenditure category	Post-policy period 2007 – 2011				Post-policy period 2008 – 2012			
	Estimated DiD parameter		Estimated DTA DiD parameter		Estimated DiD parameter		Estimated DTA DiD parameter	
	(a)	(b)	(a)	(b)	(a)	(b)	(a)	(b)
All funds and all expenditure categories	(07-11(a))	(07-11(b))	(07-11(a))	(07-11(b))	(08-12(a))	(08-12(b))	(08-12(a))	(08-12(b))
1. ERDF Objective 1 (all expenditure categories)	(07-11(a)1)	(07-11(b)1)	(07-11(a)1)	(07-11(b)1)	(08-12(a)1)	(08-12(b)1)	(08-12(a)1)	(08-12(b)1)
1.1. Productive environment	(07-11(a)1.1)	(07-11(b)1.1)	(07-11(a)1.1)	(07-11(b)1.1)	(08-12(a)1.1)	(08-12(b)1.1)	(08-12(a)1.1)	(08-12(b)1.1)
1.2. Human resources	(07-11(a)1.2)	(07-11(b)1.2)	(07-11(a)1.2)	(07-11(b)1.2)	(08-12(a)1.2)	(08-12(b)1.2)	(08-12(a)1.2)	(08-12(b)1.2)
1.3. Basic infrastructure	(07-11(a)1.3)	(07-11(b)1.3)	(07-11(a)1.3)	(07-11(b)1.3)	(08-12(a)1.3)	(08-12(b)1.3)	(08-12(a)1.3)	(08-12(b)1.3)
1.4. Miscellaneous	(07-11(a)1.4)	(07-11(b)1.4)	(07-11(a)1.4)	(07-11(b)1.4)	(08-12(a)1.4)	(08-12(b)1.4)	(08-12(a)1.4)	(08-12(b)1.4)
2. ERDF Objective 2 (all expenditure categories)	(07-11(a)2)	(07-11(b)2)	(07-11(a)2)	(07-11(b)2)	(08-12(a)2)	(08-12(b)2)	(08-12(a)2)	(08-12(b)2)
2.1. Productive environment	(07-11(a)2.1)	(07-11(b)2.1)	(07-11(a)2.1)	(07-11(b)2.1)	(08-12(a)2.1)	(08-12(b)2.1)	(08-12(a)2.1)	(08-12(b)2.1)
2.2. Human resources	(07-11(a)2.2)	(07-11(b)2.2)	(07-11(a)2.2)	(07-11(b)2.2)	(08-12(a)2.2)	(08-12(b)2.2)	(08-12(a)2.2)	(08-12(b)2.2)
2.3. Basic infrastructure	(07-11(a)2.3)	(07-11(b)2.3)	(07-11(a)2.3)	(07-11(b)2.3)	(08-12(a)2.3)	(08-12(b)2.3)	(08-12(a)2.3)	(08-12(b)2.3)
2.4. Miscellaneous	(07-11(a)2.4)	(07-11(b)2.4)	(07-11(a)2.4)	(07-11(b)2.4)	(08-12(a)2.4)	(08-12(b)2.4)	(08-12(a)2.4)	(08-12(b)2.4)
3. Cohesion fund (all expenditure categories)	(07-11(a)3)	(07-11(b)3)	(07-11(a)3)	(07-11(b)3)	(08-12(a)3)	(08-12(b)3)	(08-12(a)3)	(08-12(b)3)
3.1. Productive environment								
3.2. Human resources								
3.3. Basic infrastructure	(07-11(a)3.3)	(07-11(b)3.3)	(07-11(a)3.3)	(07-11(b)3.3)	(08-12(a)3.3)	(08-12(b)3.3)	(08-12(a)3.3)	(08-12(b)3.3)
3.4. Miscellaneous	(07-11(a)3.4)	(07-11(b)3.4)	(07-11(a)3.4)	(07-11(b)3.4)	(08-12(a)3.4)	(08-12(b)3.4)	(08-12(a)3.4)	(08-12(b)3.4)
4. ERDF Urban (all expenditure categories)	(07-11(a)4)	(07-11(b)4)	(07-11(a)4)	(07-11(b)4)	(08-12(a)4)	(08-12(b)4)	(08-12(a)4)	(08-12(b)4)
4.1. Productive environment	(07-11(a)4.1)	(07-11(b)4.1)	(07-11(a)4.1)	(07-11(b)4.1)	(08-12(a)4.1)	(08-12(b)4.1)	(08-12(a)4.1)	(08-12(b)4.1)
4.2. Human resources	(07-11(a)4.2)	(07-11(b)4.2)	(07-11(a)4.2)	(07-11(b)4.2)	(08-12(a)4.2)	(08-12(b)4.2)	(08-12(a)4.2)	(08-12(b)4.2)
4.3. Basic infrastructure	(07-11(a)4.3)	(07-11(b)4.3)	(07-11(a)4.3)	(07-11(b)4.3)	(08-12(a)4.3)	(08-12(b)4.3)	(08-12(a)4.3)	(08-12(b)4.3)
4.4. Miscellaneous	(07-11(a)4.4)	(07-11(b)4.4)	(07-11(a)4.4)	(07-11(b)4.4)	(08-12(a)4.4)	(08-12(b)4.4)	(08-12(a)4.4)	(08-12(b)4.4)
5. ERDF INTERREG IIIA (all expenditure categories)	(07-11(a)5)	(07-11(b)5)	(07-11(a)5)	(07-11(b)5)	(08-12(a)5)	(08-12(b)5)	(08-12(a)5)	(08-12(b)5)
5.1. Productive environment	(07-11(a)5.1)	(07-11(b)5.1)	(07-11(a)5.1)	(07-11(b)5.1)	(08-12(a)5.1)	(08-12(b)5.1)	(08-12(a)5.1)	(08-12(b)5.1)
5.2. Human resources	(07-11(a)5.2)	(07-11(b)5.2)	(07-11(a)5.2)	(07-11(b)5.2)	(08-12(a)5.2)	(08-12(b)5.2)	(08-12(a)5.2)	(08-12(b)5.2)
5.3. Basic infrastructure	(07-11(a)5.3)	(07-11(b)5.3)	(07-11(a)5.3)	(07-11(b)5.3)	(08-12(a)5.3)	(08-12(b)5.3)	(08-12(a)5.3)	(08-12(b)5.3)
5.4. Miscellaneous	(07-11(a)5.4)	(07-11(b)5.4)	(07-11(a)5.4)	(07-11(b)5.4)	(08-12(a)5.4)	(08-12(b)5.4)	(08-12(a)5.4)	(08-12(b)5.4)
Productive environment (all funds ERDF + CF)	(07-11(a)X.1)	(07-11(b)X.1)	(07-11(a)X.1)	(07-11(b)X.1)	(08-12(a)X.1)	(08-12(b)X.1)	(08-12(a)X.1)	(08-12(b)X.1)
Human resources (all funds ERDF + CF)	(07-11(a)X.2)	(07-11(b)X.2)	(07-11(a)X.2)	(07-11(b)X.2)	(08-12(a)X.2)	(08-12(b)X.2)	(08-12(a)X.2)	(08-12(b)X.2)
Basic infrastructure (all funds ERDF + CF)	(07-11(a)X.3)	(07-11(b)X.3)	(07-11(a)X.3)	(07-11(b)X.3)	(08-12(a)X.3)	(08-12(b)X.3)	(08-12(a)X.3)	(08-12(b)X.3)
Miscellaneous (all funds ERDF + CF)	(07-11(a)X.4)	(07-11(b)X.4)	(07-11(a)X.4)	(07-11(b)X.4)	(08-12(a)X.4)	(08-12(b)X.4)	(08-12(a)X.4)	(08-12(b)X.4)

Source: Composed by authors.