

APPENDIX

Table A. Estimation output of the tentative environmental impact assessment model.
Transport variables are highlighted.

<i>Time-varying coefficients model</i>			
Dependent variable: Benzene	Estimated coefficient	Standard Error	MC Error
Ancona Fixed effect	11.770	13.46	1.419
Livorno Fixed effect	-12.250	17.43	1.575
Mantova Fixed effect	-4.419	16.84	1.919
Messina Fixed effect	-4.060	26.46	2.879
Milan Fixed effect	18.770	20.37	2.361
Naples Fixed effect	10.560	10.41	1.035
Novara Fixed effect	-5.738	11.2	1.143
Palermo Fixed effect	-7.744	13.11	1.409
Pavia Fixed effect	1.834	10.57	1.043
Pisa Fixed effect	-3.607	8.904	0.822
Ravenna Fixed effect	-1.666	17.15	1.422
Bari Fixed effect	2.243	16.71	1.894
Rome Fixed effect	7.033	9.084	0.746
Siena Fixed effect	-17.420	18.62	1.911
Siracusa Fixed effect	-2.625	17.28	1.947
Taranto Fixed effect	-14.420	19.44	2.232
Turin Fixed effect	-0.594	12.41	1.267
Venice Fixed effect	19.950 *	13.18	1.370
Bologna Fixed effect	-9.690	12.47	1.216
Cagliari Fixed effect	-1.366	13.91	1.162
Caltanissetta Fixed effect	11.020	28.9	2.492
Catania Fixed effect	-4.298	9.608	0.887
Cremona Fixed effect	2.836	18.35	2.094
Florence Fixed effect	1.548	13.81	1.456
Genova Fixed effect	-17.410	17.97	2.091
Agriculture sector Year 2003	4.886	10.64	0.830
Agriculture sector Year 2004	5.264	14.29	1.543
Agriculture sector Year 2005	-6.435	14.02	1.333
Agriculture sector Year 2006	1.735	13.41	1.290
Agriculture sector Year 2007	-0.081	14.49	1.501
Agriculture sector Year 2008	-5.964	12.49	1.107
Agriculture sector Year 2009	-5.064	17.55	1.892
Agriculture sector Year 2010	-7.173	13.44	1.245
Agriculture sector Year 2011	-16.180	26.55	3.104
Agriculture sector Year 2012	-1.774	22.06	2.508
Agriculture sector Year 2013	-4.093	22.51	2.573
Agriculture sector Year 2014	-22.030	24.45	2.805
Agriculture sector Year 2015	5.591	17.2	1.817
Agriculture sector Year 2016	21.840	32.56	3.891
Agriculture sector Year 2017	-31.300	29.97	3.558
Agriculture sector Year 2018	-61.070 *	49.58	6.049
Agriculture sector Year 2019	8.277	22.39	2.575

Agriculture sector Year 2020	66.650 *	52.68	6.456
Agriculture sector Year 2021	-3.715	13.66	1.440
Agriculture sector Year 2022	-41.140 ***	20.09	2.300
Cars polluting potential Year 2003	25.510	41.31	4.936
Cars polluting potential Year 2004	6.807	22.91	2.474
Cars polluting potential Year 2005	0.926	27.12	2.988
Cars polluting potential Year 2006	-8.395	29.24	3.367
Cars polluting potential Year 2007	-9.131	33.43	3.847
Cars polluting potential Year 2008	4.312	26.97	2.824
Cars polluting potential Year 2009	16.290	29.85	3.456
Cars polluting potential Year 2010	6.413	23.42	2.384
Cars polluting potential Year 2011	8.201	36.57	4.313
Cars polluting potential Year 2012	7.802	26.78	3.003
Cars polluting potential Year 2013	-27.820	46.29	5.549
Cars polluting potential Year 2014	39.690	36.47	4.239
Cars polluting potential Year 2015	30.160	53.87	6.574
Cars polluting potential Year 2016	-6.497	31.91	3.702
Cars polluting potential Year 2017	##### ***	54.4	6.605
Cars polluting potential Year 2018	24.400	82.29	10.050
Cars polluting potential Year 2019	-38.170	38.72	4.523
Cars polluting potential Year 2020	-45.360	54.68	6.618
Cars polluting potential Year 2021	-51.990 *	36.21	4.252
Cars polluting potential Year 2022	46.480 *	37.69	4.396
Construction sector Year 2003	5.437	30.25	3.195
Construction sector Year 2004	30.090	33.94	3.766
Construction sector Year 2005	-1.536	27.25	2.776
Construction sector Year 2006	-10.830	50.3	5.919
Construction sector Year 2007	-5.543	25.07	2.533
Construction sector Year 2008	-19.670	45.7	5.273
Construction sector Year 2009	-0.788	29.59	3.079
Construction sector Year 2010	-2.158	31.81	3.432
Construction sector Year 2011	10.640	32.85	3.649
Construction sector Year 2012	-17.960	46.77	5.521
Construction sector Year 2013	16.080	34.6	3.907
Construction sector Year 2014	18.850	44.27	5.136
Construction sector Year 2015	-21.740	32.43	3.587
Construction sector Year 2016	-37.290	58.98	7.069
Construction sector Year 2017	-33.980	34.88	3.932
Construction sector Year 2018	68.660	64.77	7.742
Construction sector Year 2019	40.560	40.88	4.811
Construction sector Year 2020	##### *	91.98	11.220
Construction sector Year 2021	37.790	65.35	7.913
Construction sector Year 2022	12.280	24.71	2.202
Expenditure for round trip Italy-abroad Year 2003	0.789	2.293	0.256
Expenditure for round trip Italy-abroad Year 2004	-6.267 *	4.317	0.509
Expenditure for round trip Italy-abroad Year 2005	0.135	4.015	0.485
Expenditure for round trip Italy-abroad Year 2006	4.538	5.378	0.637
Expenditure for round trip Italy-abroad Year 2007	-1.292	5.517	0.670
Expenditure for round trip Italy-abroad Year 2008	-8.487	16.49	2.040

Expenditure for round trip Italy-abroad Year 2009	-3.997	14.04	1.739
Expenditure for round trip Italy-abroad Year 2010	2.757	31.18	3.871
Expenditure for round trip Italy-abroad Year 2011	7.829	29.3	3.649
Expenditure for round trip Italy-abroad Year 2012	-14.130	47.49	5.899
Expenditure for round trip Italy-abroad Year 2013	-9.416	29.33	3.666
Expenditure for round trip Italy-abroad Year 2014	34.650	46.31	5.752
Expenditure for round trip Italy-abroad Year 2015	-20.740	27.16	3.365
Expenditure for round trip Italy-abroad Year 2016	-72.250 *	55.23	6.850
Expenditure for round trip Italy-abroad Year 2017	65.410	63.46	7.873
Expenditure for round trip Italy-abroad Year 2018	#####	101.4	12.590
Expenditure for round trip Italy-abroad Year 2019	-72.130	78.08	9.708
Expenditure for round trip Italy-abroad Year 2020	##### *	101.2	12.560
Expenditure for round trip Italy-abroad Year 2021	20.040	45.11	5.619
Expenditure for round trip Italy-abroad Year 2022	84.460 **	46.69	5.798
Expenditure for transport within destination Year 2003	2.529 *	1.856	0.195
Expenditure for transport within destination Year 2004	-5.377	5.19	0.634
Expenditure for transport within destination Year 2005	-2.613	5.469	0.664
Expenditure for transport within destination Year 2006	-4.304 *	3.198	0.374
Expenditure for transport within destination Year 2007	2.140	7.586	0.937
Expenditure for transport within destination Year 2008	5.242	12.23	1.512
Expenditure for transport within destination Year 2009	2.705	15.43	1.914
Expenditure for transport within destination Year 2010	-3.146	28.9	3.590
Expenditure for transport within destination Year 2011	-8.461	32.91	4.098
Expenditure for transport within destination Year 2012	13.690	46.68	5.800
Expenditure for transport within destination Year 2013	11.620	32.64	4.080
Expenditure for transport within destination Year 2014	-35.280	47.55	5.905
Expenditure for transport within destination Year 2015	22.890	29.92	3.709
Expenditure for transport within destination Year 2016	76.860 *	58.7	7.281
Expenditure for transport within destination Year 2017	-74.200	70.46	8.739
Expenditure for transport within destination Year 2018	##### *	107.4	13.330
Expenditure for transport within destination Year 2019	80.150	87.18	10.840
Expenditure for transport within destination Year 2020	##### *	112.8	14.010
Expenditure for transport within destination Year 2021	-21.900	49.78	6.200
Expenditure for transport within destination Year 2022	-93.510 **	54.87	6.813
Manufacturing sector Year 2003	3.354	20.25	2.256
Manufacturing sector Year 2004	4.757	14.49	1.407
Manufacturing sector Year 2005	4.224	19.32	2.027
Manufacturing sector Year 2006	-7.876	17.2	1.721
Manufacturing sector Year 2007	5.774	14.7	1.287
Manufacturing sector Year 2008	16.800	19.37	2.021
Manufacturing sector Year 2009	3.789	18.28	1.879
Manufacturing sector Year 2010	-1.570	38.88	4.647
Manufacturing sector Year 2011	-0.964	30.58	3.597
Manufacturing sector Year 2012	21.830	54.27	6.611
Manufacturing sector Year 2013	7.368	27.74	3.197
Manufacturing sector Year 2014	-32.800	56.47	6.887
Manufacturing sector Year 2015	18.050	17.98	1.815
Manufacturing sector Year 2016	71.300 *	54.23	6.603
Manufacturing sector Year 2017	-33.030	45.82	5.536

Manufacturing sector Year 2018	-90.960	109.7	13.530
Manufacturing sector Year 2019	53.100 *	34.74	4.135
Manufacturing sector Year 2020	##### **	80.47	9.893
Manufacturing sector Year 2021	-9.241	41.57	5.056
Manufacturing sector Year 2022	-77.540 *	48.69	5.934
Mining sector Year 2003	0.866	19.66	2.067
Mining sector Year 2004	0.363	20.34	2.198
Mining sector Year 2005	-12.140	21.02	2.201
Mining sector Year 2006	1.683	18.92	1.800
Mining sector Year 2007	1.349	20.16	2.052
Mining sector Year 2008	-16.930	18.62	1.815
Mining sector Year 2009	-0.373	21.19	2.200
Mining sector Year 2010	-4.486	46.19	5.569
Mining sector Year 2011	-3.469	25.86	2.901
Mining sector Year 2012	-14.680	43.33	5.237
Mining sector Year 2013	-10.900	29.61	3.388
Mining sector Year 2014	40.790	63.51	7.764
Mining sector Year 2015	15.070	22.31	2.456
Mining sector Year 2016	-58.570	54.71	6.657
Mining sector Year 2017	38.580 **	22.66	2.523
Mining sector Year 2018	68.740	140.9	17.410
Mining sector Year 2019	-44.100 *	29.76	3.481
Mining sector Year 2020	##### **	71.88	8.818
Mining sector Year 2021	-19.290	54.82	6.709
Mining sector Year 2022	##### ***	51.43	6.262
Motorization rate Year 2003	-28.890 *	24.33	2.754
Motorization rate Year 2004	70.430	72.3	8.922
Motorization rate Year 2005	4.330	25.43	2.825
Motorization rate Year 2006	9.929	45.24	5.506
Motorization rate Year 2007	-5.123	25.23	2.865
Motorization rate Year 2008	-4.113	20.9	2.263
Motorization rate Year 2009	-1.278	25.17	2.823
Motorization rate Year 2010	1.110	26.15	2.988
Motorization rate Year 2011	-0.981	37.01	4.425
Motorization rate Year 2012	-13.260	27.8	3.152
Motorization rate Year 2013	-19.350	33.03	3.865
Motorization rate Year 2014	-34.960	46.87	5.625
Motorization rate Year 2015	-43.090 *	29.64	3.464
Motorization rate Year 2016	-8.710	27.89	3.207
Motorization rate Year 2017	-6.105	45.98	5.562
Motorization rate Year 2018	79.670	105.5	12.980
Motorization rate Year 2019	21.530	34.65	4.140
Motorization rate Year 2020	52.900 ***	25.82	2.963
Motorization rate Year 2021	28.770	64.74	7.947
Motorization rate Year 2022	-78.290	89.27	10.990
Proportion of Air travelers Year 2003	-0.427	0.9467	0.079
Proportion of Air travelers Year 2004	-2.200	2.646	0.319
Proportion of Air travelers Year 2005	0.341	0.9631	0.082
Proportion of Air travelers Year 2006	0.331	2.21	0.262

Proportion of Air travelers Year 2007	-0.220	0.9573	0.077
Proportion of Air travelers Year 2008	-0.052	1.281	0.131
Proportion of Air travelers Year 2009	-0.118	1.189	0.114
Proportion of Air travelers Year 2010	0.450	1.12	0.098
Proportion of Air travelers Year 2011	0.295	1.237	0.121
Proportion of Air travelers Year 2012	0.512	1.363	0.139
Proportion of Air travelers Year 2013	-0.079	1.337	0.135
Proportion of Air travelers Year 2014	-0.926	1.496	0.158
Proportion of Air travelers Year 2015	-0.643	1.214	0.116
Proportion of Air travelers Year 2016	1.435	1.792	0.200
Proportion of Air travelers Year 2017	1.292	1.437	0.154
Proportion of Air travelers Year 2018	-1.824	3.116	0.375
Proportion of Air travelers Year 2019	-1.177	1.927	0.223
Proportion of Air travelers Year 2020	3.288 *	2.168	0.255
Proportion of Air travelers Year 2021	0.856	1.105	0.117
Proportion of Air travelers Year 2022	-1.709 **	0.9872	0.102
Proportion of Road travelers Year 2003	-0.588	0.9258	0.080
Proportion of Road travelers Year 2004	-0.005	0.2913	0.027
Proportion of Road travelers Year 2005	0.932	1.673	0.180
Proportion of Road travelers Year 2006	-0.398	1.749	0.197
Proportion of Road travelers Year 2007	0.115	1.272	0.115
Proportion of Road travelers Year 2008	1.017	1.262	0.114
Proportion of Road travelers Year 2009	0.534	2.042	0.230
Proportion of Road travelers Year 2010	0.981	1.268	0.115
Proportion of Road travelers Year 2011	1.961	3.539	0.426
Proportion of Road travelers Year 2012	0.846	1.197	0.102
Proportion of Road travelers Year 2013	-0.067	2.977	0.356
Proportion of Road travelers Year 2014	1.426	1.81	0.194
Proportion of Road travelers Year 2015	-0.779	2.225	0.254
Proportion of Road travelers Year 2016	-0.711	1.128	0.099
Proportion of Road travelers Year 2017	5.162	5.071	0.621
Proportion of Road travelers Year 2018	3.852 *	2.823	0.336
Proportion of Road travelers Year 2019	-2.497	4.258	0.520
Proportion of Road travelers Year 2020	-1.200 *	0.9918	0.119
Proportion of Road travelers Year 2021	0.226	0.5411	0.061
Proportion of Road travelers Year 2022	1.056 *	0.811	0.093
Proportion of Train passengers Year 2003	-0.257	1.244	0.098
Proportion of Train passengers Year 2004	-1.582 *	1.129	0.094
Proportion of Train passengers Year 2005	-1.359	1.677	0.163
Proportion of Train passengers Year 2006	-0.384	1.272	0.089
Proportion of Train passengers Year 2007	0.000	1.735	0.164
Proportion of Train passengers Year 2008	-0.736	1.168	0.060
Proportion of Train passengers Year 2009	-0.743	1.455	0.129
Proportion of Train passengers Year 2010	-0.740	1.857	0.189
Proportion of Train passengers Year 2011	-0.773	1.433	0.112
Proportion of Train passengers Year 2012	-0.407	1.71	0.168
Proportion of Train passengers Year 2013	-0.171	1.759	0.175
Proportion of Train passengers Year 2014	-1.491	2.104	0.229
Proportion of Train passengers Year 2015	0.155	1.365	0.113

Proportion of Train passengers Year 2016	2.228	2.536	0.283
Proportion of Train passengers Year 2017	-2.021 *	1.731	0.169
Proportion of Train passengers Year 2018	-5.029 *	3.22	0.377
Proportion of Train passengers Year 2019	0.427	2.215	0.247
Proportion of Train passengers Year 2020	2.888	4.33	0.524
Proportion of Train passengers Year 2021	-1.010	1.156	0.094
Proportion of Train passengers Year 2022	-1.619	2.148	0.248
Transport & Communication sector Year 2003	-13.220	25.74	2.846
Transport & Communication sector Year 2004	11.610	21.49	2.275
Transport & Communication sector Year 2005	-6.335	20.31	1.933
Transport & Communication sector Year 2006	-4.516	19.62	1.914
Transport & Communication sector Year 2007	-10.810	24.38	2.535
Transport & Communication sector Year 2008	-7.672	21.94	2.295
Transport & Communication sector Year 2009	-1.858	25.28	2.764
Transport & Communication sector Year 2010	5.001	23.62	2.474
Transport & Communication sector Year 2011	-12.470	19.82	1.941
Transport & Communication sector Year 2012	-5.957	20.64	2.164
Transport & Communication sector Year 2013	-16.670	18.78	1.804
Transport & Communication sector Year 2014	-27.360	25.78	2.820
Transport & Communication sector Year 2015	-18.740	20.35	2.022
Transport & Communication sector Year 2016	7.534	20.64	2.035
Transport & Communication sector Year 2017	9.894	18.91	1.803
Transport & Communication sector Year 2018	-9.128	69.33	8.475
Transport & Communication sector Year 2019	5.791	28.41	3.177
Transport & Communication sector Year 2020	69.590 **	40.58	4.786
Transport & Communication sector Year 2021	-4.733	28.52	3.143
Transport & Communication sector Year 2022	-73.460 **	45.68	5.492

Dependent variable: CO2	Estimated coefficient	Standard Error	MC Error
Ancona Fixed effect	0.998	31.1	1.514
Livorno Fixed effect	0.636	32.94	0.862
Mantova Fixed effect	-0.424	31.47	0.829
Messina Fixed effect	0.402	30.97	0.830
Milan Fixed effect	-0.729	31.79	0.894
Naples Fixed effect	-0.120	31.56	0.847
Novara Fixed effect	-0.687	32.36	0.821
Palermo Fixed effect	-0.895	32.52	0.753
Pavia Fixed effect	-0.607	31.72	0.644
Pisa Fixed effect	0.468	31.85	0.860
Ravenna Fixed effect	-0.892	31.5	0.945
Bari Fixed effect	1.252	31.52	0.911
Rome Fixed effect	-0.588	33.04	0.858
Siena Fixed effect	1.123	30.79	0.726
Siracusa Fixed effect	-0.167	31.8	0.771
Taranto Fixed effect	-0.885	30.91	0.808
Turin Fixed effect	-0.223	31.97	0.859
Venice Fixed effect	-0.745	32.18	0.899
Bologna Fixed effect	-0.106	32.2	0.829
Cagliari Fixed effect	0.358	32.18	0.807

Caltanissetta Fixed effect	-0.173	32.09	0.763
Catania Fixed effect	-0.480	32.19	0.821
Cremona Fixed effect	-1.413	31.35	0.769
Florence Fixed effect	0.967	32.06	0.755
Genova Fixed effect	-1.475	31.06	0.775
Agriculture sector Year 2003	1.672	29.99	1.836
Agriculture sector Year 2004	-0.432	31.56	1.919
Agriculture sector Year 2005	0.084	31.01	1.769
Agriculture sector Year 2006	1.834	31.47	1.815
Agriculture sector Year 2007	2.226	30.96	1.352
Agriculture sector Year 2008	-0.474	32.78	1.604
Agriculture sector Year 2009	-0.820	31.57	1.167
Agriculture sector Year 2010	-1.371	30.18	1.001
Agriculture sector Year 2011	-1.023	31	0.776
Agriculture sector Year 2012	-0.261	32.05	0.647
Agriculture sector Year 2013	-0.621	31.57	0.881
Agriculture sector Year 2014	-0.974	30.03	0.817
Agriculture sector Year 2015	0.067	31	0.790
Agriculture sector Year 2016	0.312	32.44	0.858
Agriculture sector Year 2017	0.385	31.15	0.799
Agriculture sector Year 2018	-0.987	31.64	0.869
Agriculture sector Year 2019	0.699	31.91	0.913
Agriculture sector Year 2020	-0.427	31.13	0.772
Agriculture sector Year 2021	-0.377	31.9	0.975
Agriculture sector Year 2022	-1.631	31.46	0.775
Cars polluting potential Year 2003	1.764	32.48	2.219
Cars polluting potential Year 2004	-2.558	30.67	1.960
Cars polluting potential Year 2005	-0.441	30.2	1.595
Cars polluting potential Year 2006	-2.842	33.58	2.191
Cars polluting potential Year 2007	0.486	29.97	1.558
Cars polluting potential Year 2008	-0.116	31.96	1.390
Cars polluting potential Year 2009	1.727	31.1	1.362
Cars polluting potential Year 2010	-0.941	31.61	1.360
Cars polluting potential Year 2011	-0.668	31.72	0.855
Cars polluting potential Year 2012	1.187	30.52	0.794
Cars polluting potential Year 2013	0.159	31.81	0.756
Cars polluting potential Year 2014	-1.343	31.18	0.768
Cars polluting potential Year 2015	0.852	31.5	0.866
Cars polluting potential Year 2016	1.075	30.36	0.707
Cars polluting potential Year 2017	-0.164	32.04	0.879
Cars polluting potential Year 2018	0.478	32.57	0.779
Cars polluting potential Year 2019	0.750	31.73	0.916
Cars polluting potential Year 2020	-1.713	31.52	0.847
Cars polluting potential Year 2021	0.742	31.51	0.747
Cars polluting potential Year 2022	-1.015	31.68	0.733
Construction sector Year 2003	1.821	32.18	1.713
Construction sector Year 2004	-0.752	31.62	1.717
Construction sector Year 2005	-1.434	30.53	1.525
Construction sector Year 2006	1.548	33.2	1.814

Construction sector Year 2007	-0.744	30.84	1.117
Construction sector Year 2008	-1.460	30.85	1.090
Construction sector Year 2009	-1.229	32.43	1.018
Construction sector Year 2010	0.647	32.46	0.927
Construction sector Year 2011	1.191	31.81	0.823
Construction sector Year 2012	0.199	31.64	0.794
Construction sector Year 2013	-0.979	31	0.710
Construction sector Year 2014	-0.724	32.47	0.792
Construction sector Year 2015	-0.536	32.43	0.774
Construction sector Year 2016	-0.761	32.11	0.920
Construction sector Year 2017	-0.846	32.28	0.904
Construction sector Year 2018	1.446	31.66	0.825
Construction sector Year 2019	0.623	31.24	0.937
Construction sector Year 2020	0.340	32.19	0.884
Construction sector Year 2021	-0.180	32.17	0.856
Construction sector Year 2022	1.470	32.27	0.862
Expenditure for round trip Italy-abroad Year 2003	-1.508	32.52	1.706
Expenditure for round trip Italy-abroad Year 2004	6.899	29.76	2.835
Expenditure for round trip Italy-abroad Year 2005	-11.850	29.51	3.292
Expenditure for round trip Italy-abroad Year 2006	2.023	24.01	2.733
Expenditure for round trip Italy-abroad Year 2007	-8.469	23.52	2.703
Expenditure for round trip Italy-abroad Year 2008	1.473	21.67	2.497
Expenditure for round trip Italy-abroad Year 2009	-0.582	17.78	1.889
Expenditure for round trip Italy-abroad Year 2010	7.634	24.29	2.682
Expenditure for round trip Italy-abroad Year 2011	0.878	23.42	2.129
Expenditure for round trip Italy-abroad Year 2012	0.764	31.93	0.827
Expenditure for round trip Italy-abroad Year 2013	0.977	31.92	0.799
Expenditure for round trip Italy-abroad Year 2014	0.338	32.15	0.838
Expenditure for round trip Italy-abroad Year 2015	-1.659	32.73	0.763
Expenditure for round trip Italy-abroad Year 2016	-1.020	32.96	0.800
Expenditure for round trip Italy-abroad Year 2017	0.074	32.23	0.767
Expenditure for round trip Italy-abroad Year 2018	-1.251	31.73	0.909
Expenditure for round trip Italy-abroad Year 2019	0.245	31.69	0.902
Expenditure for round trip Italy-abroad Year 2020	-1.669	31.78	0.793
Expenditure for round trip Italy-abroad Year 2021	0.226	31.83	0.797
Expenditure for round trip Italy-abroad Year 2022	-1.110	31.79	0.783
Expenditure for transport within destination Year 2003	-4.896	19.68	1.935
Expenditure for transport within destination Year 2004	-3.742	19.43	2.099
Expenditure for transport within destination Year 2005	12.990	21.54	2.463
Expenditure for transport within destination Year 2006	4.007	18.31	2.127
Expenditure for transport within destination Year 2007	6.826	19.74	2.299
Expenditure for transport within destination Year 2008	-2.061	19.27	2.246
Expenditure for transport within destination Year 2009	-0.740	16.98	1.838
Expenditure for transport within destination Year 2010	-4.070	21.1	2.275
Expenditure for transport within destination Year 2011	0.179	22.33	2.076
Expenditure for transport within destination Year 2012	0.880	31.79	0.875
Expenditure for transport within destination Year 2013	-0.490	31.43	0.801
Expenditure for transport within destination Year 2014	-0.185	32.31	0.861
Expenditure for transport within destination Year 2015	0.613	31.68	0.892

Expenditure for transport within destination Year 2016	0.670	31.36	0.920
Expenditure for transport within destination Year 2017	0.924	31.66	0.874
Expenditure for transport within destination Year 2018	0.331	31.95	0.775
Expenditure for transport within destination Year 2019	-0.364	32.47	0.881
Expenditure for transport within destination Year 2020	-0.251	30.34	0.932
Expenditure for transport within destination Year 2021	-1.531	32.16	0.713
Expenditure for transport within destination Year 2022	-0.493	31.09	0.795
Manufacturing sector Year 2003	0.324	32.39	1.101
Manufacturing sector Year 2004	-1.031	31.24	1.071
Manufacturing sector Year 2005	-1.110	31.17	1.041
Manufacturing sector Year 2006	1.899	30.74	0.948
Manufacturing sector Year 2007	-0.604	32.29	0.898
Manufacturing sector Year 2008	-0.223	31.14	0.700
Manufacturing sector Year 2009	0.362	31.76	0.830
Manufacturing sector Year 2010	0.866	30.85	0.874
Manufacturing sector Year 2011	-0.348	31.93	0.721
Manufacturing sector Year 2012	1.093	30.95	0.710
Manufacturing sector Year 2013	2.188	31.64	0.842
Manufacturing sector Year 2014	-0.245	31.46	0.728
Manufacturing sector Year 2015	-0.562	31.56	0.909
Manufacturing sector Year 2016	0.217	31.65	0.862
Manufacturing sector Year 2017	-0.959	32.45	0.815
Manufacturing sector Year 2018	-1.297	32.09	0.826
Manufacturing sector Year 2019	-1.333	31.85	0.744
Manufacturing sector Year 2020	-0.153	31.64	0.821
Manufacturing sector Year 2021	0.333	31.57	0.830
Manufacturing sector Year 2022	0.275	31.72	0.861
Mining sector Year 2003	0.676	30.7	1.962
Mining sector Year 2004	-0.013	32.15	2.001
Mining sector Year 2005	-0.269	34.11	2.455
Mining sector Year 2006	1.227	30.27	1.650
Mining sector Year 2007	0.470	30.42	1.330
Mining sector Year 2008	0.651	31.31	1.558
Mining sector Year 2009	-0.947	30.71	1.156
Mining sector Year 2010	1.783	31.18	1.259
Mining sector Year 2011	0.153	31.01	0.750
Mining sector Year 2012	-0.575	32.17	0.806
Mining sector Year 2013	0.076	31.9	0.693
Mining sector Year 2014	-2.611	31.58	0.900
Mining sector Year 2015	-0.238	32.28	0.791
Mining sector Year 2016	-1.100	31.78	0.837
Mining sector Year 2017	1.374	32.01	0.926
Mining sector Year 2018	0.594	31.59	0.864
Mining sector Year 2019	0.191	31.16	0.783
Mining sector Year 2020	-0.388	32.03	0.809
Mining sector Year 2021	-0.357	31.88	0.746
Mining sector Year 2022	-0.659	29.89	0.775
Motorization rate Year 2003	1.294	33.04	2.547
Motorization rate Year 2004	0.915	30.43	1.900

Motorization rate Year 2005	2.843	31.18	2.112
Motorization rate Year 2006	-3.692	31.98	2.200
Motorization rate Year 2007	3.830	32.65	2.027
Motorization rate Year 2008	-1.459	32.05	1.909
Motorization rate Year 2009	2.272	32.26	1.523
Motorization rate Year 2010	-0.055	32.14	1.266
Motorization rate Year 2011	0.548	32.37	0.820
Motorization rate Year 2012	0.262	30.02	0.724
Motorization rate Year 2013	0.190	29.85	0.836
Motorization rate Year 2014	-1.568	31.43	0.883
Motorization rate Year 2015	0.856	31.15	0.778
Motorization rate Year 2016	0.191	31.4	0.828
Motorization rate Year 2017	-0.285	32.01	0.861
Motorization rate Year 2018	0.042	30.97	0.727
Motorization rate Year 2019	0.802	31.99	0.693
Motorization rate Year 2020	-0.571	31.71	0.693
Motorization rate Year 2021	-0.397	31.46	0.840
Motorization rate Year 2022	-0.943	31.25	0.810
Proportion of Air travelers Year 2003	0.068	31.55	1.023
Proportion of Air travelers Year 2004	0.110	33.12	0.867
Proportion of Air travelers Year 2005	0.667	31.17	0.861
Proportion of Air travelers Year 2006	1.304	30.86	0.755
Proportion of Air travelers Year 2007	-1.396	31.7	0.930
Proportion of Air travelers Year 2008	-1.487	31.71	0.905
Proportion of Air travelers Year 2009	-0.365	31.62	0.964
Proportion of Air travelers Year 2010	-1.157	30.92	0.747
Proportion of Air travelers Year 2011	-1.447	32.23	0.812
Proportion of Air travelers Year 2012	-0.780	31.64	0.764
Proportion of Air travelers Year 2013	0.596	32.31	0.935
Proportion of Air travelers Year 2014	0.098	32.05	0.814
Proportion of Air travelers Year 2015	0.129	31.74	0.839
Proportion of Air travelers Year 2016	-0.455	31.9	0.829
Proportion of Air travelers Year 2017	-0.410	32.32	0.733
Proportion of Air travelers Year 2018	1.189	31.99	0.761
Proportion of Air travelers Year 2019	-0.139	31.7	0.715
Proportion of Air travelers Year 2020	0.081	30.91	0.720
Proportion of Air travelers Year 2021	-0.362	31.83	0.797
Proportion of Air travelers Year 2022	0.254	31.07	0.906
Proportion of Road travelers Year 2003	-8.002	20.64	2.066
Proportion of Road travelers Year 2004	-2.212	24.53	2.569
Proportion of Road travelers Year 2005	10.430	25.81	2.787
Proportion of Road travelers Year 2006	6.215	26.49	2.838
Proportion of Road travelers Year 2007	-1.310	27.15	2.650
Proportion of Road travelers Year 2008	-4.138	28.38	2.764
Proportion of Road travelers Year 2009	-3.716	30.65	2.898
Proportion of Road travelers Year 2010	8.959	30.7	2.502
Proportion of Road travelers Year 2011	2.098	32.32	1.484
Proportion of Road travelers Year 2012	-2.409	31.71	0.979
Proportion of Road travelers Year 2013	-1.223	31.28	0.911

Proportion of Road travelers Year 2014	-0.926	30.74	0.692
Proportion of Road travelers Year 2015	1.327	31.58	0.823
Proportion of Road travelers Year 2016	-0.760	30.92	0.717
Proportion of Road travelers Year 2017	0.237	30.72	0.796
Proportion of Road travelers Year 2018	-0.474	30.84	0.782
Proportion of Road travelers Year 2019	0.177	30.78	0.870
Proportion of Road travelers Year 2020	0.908	32.44	0.940
Proportion of Road travelers Year 2021	-1.036	30.49	0.852
Proportion of Road travelers Year 2022	-0.068	32.1	0.713
Proportion of Train passengers Year 2003	-0.802	31.49	0.811
Proportion of Train passengers Year 2004	-0.566	31.41	0.865
Proportion of Train passengers Year 2005	0.219	32.29	0.743
Proportion of Train passengers Year 2006	-1.062	31.61	0.943
Proportion of Train passengers Year 2007	0.127	31.01	0.859
Proportion of Train passengers Year 2008	-0.811	32.3	0.743
Proportion of Train passengers Year 2009	0.330	31.74	0.774
Proportion of Train passengers Year 2010	-0.915	31.64	0.949
Proportion of Train passengers Year 2011	-0.717	31.55	0.802
Proportion of Train passengers Year 2012	-0.525	31.37	0.747
Proportion of Train passengers Year 2013	1.559	31.64	0.916
Proportion of Train passengers Year 2014	0.176	30.6	0.624
Proportion of Train passengers Year 2015	-0.563	31.37	0.748
Proportion of Train passengers Year 2016	0.196	31.11	0.728
Proportion of Train passengers Year 2017	-0.379	30.64	0.756
Proportion of Train passengers Year 2018	0.060	32.92	0.926
Proportion of Train passengers Year 2019	-1.435	32.02	0.813
Proportion of Train passengers Year 2020	0.222	31.04	0.862
Proportion of Train passengers Year 2021	-0.506	31.29	0.744
Proportion of Train passengers Year 2022	-0.683	31.74	0.729
Transport & Communication sector Year 2003	-1.655	34.46	2.354
Transport & Communication sector Year 2004	0.570	30.2	1.368
Transport & Communication sector Year 2005	0.978	31.39	1.616
Transport & Communication sector Year 2006	3.978	31.08	1.702
Transport & Communication sector Year 2007	-0.846	30.83	1.338
Transport & Communication sector Year 2008	-0.897	31.51	1.058
Transport & Communication sector Year 2009	-0.507	31.53	1.107
Transport & Communication sector Year 2010	-1.049	32.16	0.893
Transport & Communication sector Year 2011	0.570	31.57	0.690
Transport & Communication sector Year 2012	1.108	32.15	0.759
Transport & Communication sector Year 2013	0.256	32	0.879
Transport & Communication sector Year 2014	0.084	30.53	0.777
Transport & Communication sector Year 2015	0.297	29.96	0.778
Transport & Communication sector Year 2016	2.133	32.34	0.747
Transport & Communication sector Year 2017	0.268	30.84	0.833
Transport & Communication sector Year 2018	-1.469	31.68	0.846
Transport & Communication sector Year 2019	-1.887	31.65	0.868
Transport & Communication sector Year 2020	-1.012	31.73	0.796
Transport & Communication sector Year 2021	-1.804	32.18	0.956
Transport & Communication sector Year 2022	0.338	30.66	0.823

Dependent variable: Energy consumption	Estimated coefficient	Standard Error	MC Error
Ancona Fixed effect	-1.445	32.12	0.899
Livorno Fixed effect	-0.082	31.3	0.835
Mantova Fixed effect	-0.942	30.87	0.777
Messina Fixed effect	0.383	30.94	0.557
Milan Fixed effect	-0.070	31.67	0.918
Naples Fixed effect	-0.409	32.46	0.760
Novara Fixed effect	-0.023	31.77	0.772
Palermo Fixed effect	-1.445	31.66	0.743
Pavia Fixed effect	-0.889	31.87	0.719
Pisa Fixed effect	-0.589	31.87	0.864
Ravenna Fixed effect	-0.581	32.28	0.950
Bari Fixed effect	-0.187	31.21	0.701
Rome Fixed effect	-0.748	31.19	0.853
Siena Fixed effect	1.464	32.23	0.706
Siracusa Fixed effect	-0.499	32.54	0.833
Taranto Fixed effect	-0.763	31.94	0.715
Turin Fixed effect	1.652	31.87	0.884
Venice Fixed effect	-1.625	32.34	0.743
Bologna Fixed effect	-0.253	32.09	0.867
Cagliari Fixed effect	-0.388	32.13	0.794
Caltanissetta Fixed effect	0.554	31.67	0.761
Catania Fixed effect	0.712	31.77	0.950
Cremona Fixed effect	0.025	31.43	0.806
Florence Fixed effect	-0.702	30.48	0.753
Genova Fixed effect	-0.440	31.64	0.901
Agriculture sector Year 2003	-0.291	32.12	0.757
Agriculture sector Year 2004	-0.990	32.54	1.009
Agriculture sector Year 2005	0.275	31.17	0.705
Agriculture sector Year 2006	0.428	31.76	0.843
Agriculture sector Year 2007	-0.064	31.17	0.862
Agriculture sector Year 2008	0.252	31.28	0.765
Agriculture sector Year 2009	-0.256	31.47	0.737
Agriculture sector Year 2010	-0.774	31.69	0.687
Agriculture sector Year 2011	1.983	30.99	0.817
Agriculture sector Year 2012	0.329	32.3	0.780
Agriculture sector Year 2013	0.691	31.73	0.689
Agriculture sector Year 2014	-0.523	30.93	0.735
Agriculture sector Year 2015	1.957	31.79	0.780
Agriculture sector Year 2016	-1.255	32.97	0.894
Agriculture sector Year 2017	-1.576	31.55	0.838
Agriculture sector Year 2018	-0.370	31.74	0.808
Agriculture sector Year 2019	0.850	31.22	0.813
Agriculture sector Year 2020	0.641	30.34	0.824
Agriculture sector Year 2021	0.902	31.3	0.811
Agriculture sector Year 2022	0.069	31.39	0.758
Cars polluting potential Year 2003	1.088	30.41	0.826
Cars polluting potential Year 2004	0.003	30.76	0.706

Cars polluting potential Year 2005	-0.170	31.95	0.895
Cars polluting potential Year 2006	-0.085	31.48	0.895
Cars polluting potential Year 2007	0.705	31.52	0.697
Cars polluting potential Year 2008	0.005	31.82	0.825
Cars polluting potential Year 2009	-0.236	31.9	0.781
Cars polluting potential Year 2010	-0.296	31.36	0.761
Cars polluting potential Year 2011	1.510	32.47	0.814
Cars polluting potential Year 2012	0.006	31.63	0.804
Cars polluting potential Year 2013	0.583	31.7	0.762
Cars polluting potential Year 2014	-1.349	32.41	0.798
Cars polluting potential Year 2015	-0.826	31.52	0.918
Cars polluting potential Year 2016	0.055	31.34	0.825
Cars polluting potential Year 2017	0.098	31.31	0.720
Cars polluting potential Year 2018	-0.135	32.34	0.854
Cars polluting potential Year 2019	0.961	32.91	0.788
Cars polluting potential Year 2020	-0.611	31.95	0.897
Cars polluting potential Year 2021	-0.110	31.24	0.718
Cars polluting potential Year 2022	0.399	30.95	0.865
Construction sector Year 2003	-0.843	31.15	0.725
Construction sector Year 2004	-0.310	31.84	0.830
Construction sector Year 2005	-1.339	31.66	0.697
Construction sector Year 2006	0.506	31.64	0.969
Construction sector Year 2007	-0.306	31.29	0.856
Construction sector Year 2008	-0.921	31.44	0.821
Construction sector Year 2009	0.439	32.59	0.978
Construction sector Year 2010	1.554	31.74	0.777
Construction sector Year 2011	0.580	30.94	0.682
Construction sector Year 2012	-0.128	31.73	0.754
Construction sector Year 2013	-0.139	32.54	0.801
Construction sector Year 2014	-0.308	32.65	0.726
Construction sector Year 2015	-0.336	31.6	0.749
Construction sector Year 2016	0.115	32.39	0.780
Construction sector Year 2017	-2.653	32.01	0.869
Construction sector Year 2018	-0.270	31.55	0.800
Construction sector Year 2019	-1.320	32.41	0.849
Construction sector Year 2020	0.153	31.59	0.882
Construction sector Year 2021	0.305	30.75	0.810
Construction sector Year 2022	1.208	31.9	0.965
Expenditure for round trip Italy-abroad Year 2003	0.126	31.19	0.927
Expenditure for round trip Italy-abroad Year 2004	-0.155	32.37	0.814
Expenditure for round trip Italy-abroad Year 2005	-1.908	30.65	0.711
Expenditure for round trip Italy-abroad Year 2006	-0.144	31.13	0.759
Expenditure for round trip Italy-abroad Year 2007	0.656	33.17	0.750
Expenditure for round trip Italy-abroad Year 2008	-1.873	31.27	0.798
Expenditure for round trip Italy-abroad Year 2009	-0.285	30.74	0.830
Expenditure for round trip Italy-abroad Year 2010	0.911	31.41	0.741
Expenditure for round trip Italy-abroad Year 2011	-0.075	31.64	0.896
Expenditure for round trip Italy-abroad Year 2012	0.242	31.84	0.834
Expenditure for round trip Italy-abroad Year 2013	-0.046	31.28	0.825

Expenditure for round trip Italy-abroad Year 2014	-1.341	31.3	0.851
Expenditure for round trip Italy-abroad Year 2015	1.861	31.4	0.768
Expenditure for round trip Italy-abroad Year 2016	0.462	30.99	0.699
Expenditure for round trip Italy-abroad Year 2017	-0.557	31.2	0.855
Expenditure for round trip Italy-abroad Year 2018	0.029	31.17	0.878
Expenditure for round trip Italy-abroad Year 2019	-0.046	31.31	0.764
Expenditure for round trip Italy-abroad Year 2020	-0.690	31.16	0.770
Expenditure for round trip Italy-abroad Year 2021	-1.324	31.76	0.780
Expenditure for round trip Italy-abroad Year 2022	0.641	31.37	0.698
Expenditure for transport within destination Year 2003	0.903	31.6	0.767
Expenditure for transport within destination Year 2004	-0.297	31.81	0.871
Expenditure for transport within destination Year 2005	0.295	31.65	0.642
Expenditure for transport within destination Year 2006	1.345	31.11	0.911
Expenditure for transport within destination Year 2007	-0.307	32.39	0.693
Expenditure for transport within destination Year 2008	-0.309	32.73	0.815
Expenditure for transport within destination Year 2009	-0.202	32	0.890
Expenditure for transport within destination Year 2010	-0.125	31.98	0.871
Expenditure for transport within destination Year 2011	-0.601	31.93	0.873
Expenditure for transport within destination Year 2012	0.168	31.39	0.763
Expenditure for transport within destination Year 2013	-1.022	31.93	0.736
Expenditure for transport within destination Year 2014	-0.043	31.78	0.973
Expenditure for transport within destination Year 2015	1.081	31.56	0.879
Expenditure for transport within destination Year 2016	0.027	31.04	0.774
Expenditure for transport within destination Year 2017	0.032	31.47	0.891
Expenditure for transport within destination Year 2018	0.206	31.94	0.733
Expenditure for transport within destination Year 2019	-0.899	30.62	0.834
Expenditure for transport within destination Year 2020	-0.043	31.43	0.846
Expenditure for transport within destination Year 2021	0.920	31.03	0.853
Expenditure for transport within destination Year 2022	-1.386	31.02	0.819
Manufacturing sector Year 2003	0.287	31.81	0.691
Manufacturing sector Year 2004	0.328	31.28	0.927
Manufacturing sector Year 2005	0.119	31.29	0.829
Manufacturing sector Year 2006	-0.631	30.72	0.771
Manufacturing sector Year 2007	-0.527	32	0.746
Manufacturing sector Year 2008	-0.046	31.92	0.830
Manufacturing sector Year 2009	0.072	31.07	0.902
Manufacturing sector Year 2010	-0.015	31.86	0.621
Manufacturing sector Year 2011	0.601	31.62	0.904
Manufacturing sector Year 2012	0.101	30.74	0.757
Manufacturing sector Year 2013	-0.818	31.68	0.815
Manufacturing sector Year 2014	-0.193	32.88	0.876
Manufacturing sector Year 2015	-0.162	30.76	0.747
Manufacturing sector Year 2016	-1.347	31.39	0.745
Manufacturing sector Year 2017	1.506	30.93	0.690
Manufacturing sector Year 2018	-0.818	31.81	0.870
Manufacturing sector Year 2019	0.914	31.4	0.855
Manufacturing sector Year 2020	0.301	31.16	0.767
Manufacturing sector Year 2021	0.636	30.94	0.918
Manufacturing sector Year 2022	-1.667	31.88	0.893

Mining sector Year 2003	0.012	31.61	0.815
Mining sector Year 2004	0.053	32.37	0.821
Mining sector Year 2005	-0.706	30.88	0.781
Mining sector Year 2006	0.503	30.72	0.828
Mining sector Year 2007	-0.196	31.95	0.841
Mining sector Year 2008	1.053	32.33	0.692
Mining sector Year 2009	-0.410	31.76	0.837
Mining sector Year 2010	-0.108	31.22	0.783
Mining sector Year 2011	-0.377	31.58	0.808
Mining sector Year 2012	-1.078	32.49	0.789
Mining sector Year 2013	-0.477	32.06	0.763
Mining sector Year 2014	1.049	32.22	0.835
Mining sector Year 2015	-0.337	31.85	0.802
Mining sector Year 2016	-0.816	31.49	0.832
Mining sector Year 2017	-0.215	31.57	0.810
Mining sector Year 2018	0.078	31.37	0.817
Mining sector Year 2019	-0.032	31.08	0.699
Mining sector Year 2020	0.215	31.24	0.706
Mining sector Year 2021	-0.011	31.18	0.713
Mining sector Year 2022	1.346	32.74	0.842
Motorization rate Year 2003	0.580	32.29	0.850
Motorization rate Year 2004	-0.672	32.04	0.848
Motorization rate Year 2005	-0.142	32.21	0.777
Motorization rate Year 2006	-1.607	31.97	0.799
Motorization rate Year 2007	0.636	31.4	0.796
Motorization rate Year 2008	0.349	31.49	0.791
Motorization rate Year 2009	-1.366	32.43	0.776
Motorization rate Year 2010	-0.343	31.66	0.804
Motorization rate Year 2011	-1.427	31.85	0.893
Motorization rate Year 2012	0.741	30.85	0.826
Motorization rate Year 2013	-1.029	32.13	0.865
Motorization rate Year 2014	0.542	31.01	0.903
Motorization rate Year 2015	-1.479	32.01	0.929
Motorization rate Year 2016	0.696	31.52	0.791
Motorization rate Year 2017	-0.859	31.47	0.846
Motorization rate Year 2018	0.198	31.7	0.793
Motorization rate Year 2019	0.013	32.13	0.872
Motorization rate Year 2020	-0.103	32.49	0.908
Motorization rate Year 2021	-0.205	32.29	0.748
Motorization rate Year 2022	-1.207	30.51	0.675
Proportion of Air travelers Year 2003	0.050	31.28	0.747
Proportion of Air travelers Year 2004	-0.693	31.61	0.760
Proportion of Air travelers Year 2005	0.171	31.19	1.010
Proportion of Air travelers Year 2006	-0.411	32.18	0.873
Proportion of Air travelers Year 2007	0.258	31.47	0.835
Proportion of Air travelers Year 2008	-1.597	31.7	0.779
Proportion of Air travelers Year 2009	1.268	31.25	0.758
Proportion of Air travelers Year 2010	-0.034	32.32	0.898
Proportion of Air travelers Year 2011	-2.205	31.89	0.861

Proportion of Air travelers Year 2012	-0.077	32.26	0.815
Proportion of Air travelers Year 2013	-1.376	31.97	0.901
Proportion of Air travelers Year 2014	0.090	32.41	0.758
Proportion of Air travelers Year 2015	-1.719	31.5	0.841
Proportion of Air travelers Year 2016	0.073	32.13	0.851
Proportion of Air travelers Year 2017	1.492	31.57	0.810
Proportion of Air travelers Year 2018	-1.396	30.84	0.891
Proportion of Air travelers Year 2019	-0.584	31.27	0.883
Proportion of Air travelers Year 2020	0.561	31.68	0.744
Proportion of Air travelers Year 2021	-0.230	31.21	0.814
Proportion of Air travelers Year 2022	-0.187	31.46	0.874
Proportion of Road travelers Year 2003	-0.744	31.91	0.838
Proportion of Road travelers Year 2004	-1.467	31.16	0.642
Proportion of Road travelers Year 2005	0.967	31.7	0.761
Proportion of Road travelers Year 2006	0.390	31.1	0.721
Proportion of Road travelers Year 2007	1.064	31.76	0.817
Proportion of Road travelers Year 2008	-1.155	30.78	0.736
Proportion of Road travelers Year 2009	0.493	30.7	0.735
Proportion of Road travelers Year 2010	-0.622	32.77	0.738
Proportion of Road travelers Year 2011	0.547	31.85	0.827
Proportion of Road travelers Year 2012	1.621	31.31	0.915
Proportion of Road travelers Year 2013	0.161	31.42	0.833
Proportion of Road travelers Year 2014	-0.356	31.19	0.801
Proportion of Road travelers Year 2015	-1.095	31.66	0.817
Proportion of Road travelers Year 2016	-0.036	32.14	0.849
Proportion of Road travelers Year 2017	0.922	31.83	0.801
Proportion of Road travelers Year 2018	0.378	31.84	0.892
Proportion of Road travelers Year 2019	-1.129	31.61	0.794
Proportion of Road travelers Year 2020	-1.733	32.49	0.837
Proportion of Road travelers Year 2021	0.997	31.9	0.868
Proportion of Road travelers Year 2022	0.366	32.85	1.066
Proportion of Train passengers Year 2003	-0.768	31.04	0.759
Proportion of Train passengers Year 2004	1.074	32.26	0.859
Proportion of Train passengers Year 2005	0.170	31.21	0.791
Proportion of Train passengers Year 2006	-1.935	32.06	0.860
Proportion of Train passengers Year 2007	0.999	30.52	0.752
Proportion of Train passengers Year 2008	0.352	31.35	0.739
Proportion of Train passengers Year 2009	1.233	31.98	0.885
Proportion of Train passengers Year 2010	-0.088	30.94	0.764
Proportion of Train passengers Year 2011	1.031	30.71	0.718
Proportion of Train passengers Year 2012	0.967	31.22	0.764
Proportion of Train passengers Year 2013	0.066	31.34	0.844
Proportion of Train passengers Year 2014	-0.018	31.41	0.726
Proportion of Train passengers Year 2015	0.140	32.32	0.691
Proportion of Train passengers Year 2016	-0.529	31.73	0.810
Proportion of Train passengers Year 2017	0.198	32.45	0.883
Proportion of Train passengers Year 2018	-0.194	31.45	0.755
Proportion of Train passengers Year 2019	-2.636	31.08	0.857
Proportion of Train passengers Year 2020	0.451	32.64	0.833

Proportion of Train passengers Year 2021	0.674	31.9	0.818
Proportion of Train passengers Year 2022	-0.687	32.3	0.940
Transport & Communication sector Year 2003	0.258	31.88	1.079
Transport & Communication sector Year 2004	0.843	32.02	0.852
Transport & Communication sector Year 2005	0.739	31.09	0.784
Transport & Communication sector Year 2006	-0.010	31.66	0.814
Transport & Communication sector Year 2007	0.548	31.72	0.798
Transport & Communication sector Year 2008	0.771	31.9	0.834
Transport & Communication sector Year 2009	-1.131	31.93	0.851
Transport & Communication sector Year 2010	-1.429	31.31	0.823
Transport & Communication sector Year 2011	-1.153	30.93	0.860
Transport & Communication sector Year 2012	0.836	31.17	0.815
Transport & Communication sector Year 2013	1.423	32.66	0.951
Transport & Communication sector Year 2014	-1.177	32.09	0.956
Transport & Communication sector Year 2015	0.452	30.62	0.679
Transport & Communication sector Year 2016	-0.663	30.49	0.827
Transport & Communication sector Year 2017	0.587	31.48	0.786
Transport & Communication sector Year 2018	0.264	31.7	0.935
Transport & Communication sector Year 2019	-0.180	31.27	0.841
Transport & Communication sector Year 2020	1.640	31.96	0.769
Transport & Communication sector Year 2021	2.247	32	0.792
Transport & Communication sector Year 2022	-0.459	32.77	0.883

Dependent variable: Methane	Estimated coefficient	Standard Error	MC Error
Ancona Fixed effect	0.054	31.5	0.757
Livorno Fixed effect	-0.114	31.71	0.826
Mantova Fixed effect	0.283	31.48	0.921
Messina Fixed effect	-0.910	31.46	0.726
Milan Fixed effect	-1.639	31.2	0.799
Naples Fixed effect	-0.942	31.64	0.787
Novara Fixed effect	0.154	31.4	0.758
Palermo Fixed effect	-0.189	31.04	0.772
Pavia Fixed effect	1.419	31.89	0.922
Pisa Fixed effect	-0.037	31.48	0.764
Ravenna Fixed effect	-0.233	31.73	0.775
Bari Fixed effect	0.962	31.65	0.825
Rome Fixed effect	-0.113	31.95	0.814
Siena Fixed effect	-0.202	31.94	0.855
Siracusa Fixed effect	-1.127	30.9	0.879
Taranto Fixed effect	0.026	31.87	0.799
Turin Fixed effect	1.175	30.76	0.815
Venice Fixed effect	-1.611	32.03	0.874
Bologna Fixed effect	-1.418	31.25	0.820
Cagliari Fixed effect	1.145	30.99	0.768
Caltanissetta Fixed effect	0.068	31.76	0.711
Catania Fixed effect	-0.039	31.92	0.715
Cremona Fixed effect	-0.179	31.33	0.723
Florence Fixed effect	-1.617	31.96	0.924
Genova Fixed effect	1.415	32.9	0.829

Agriculture sector Year 2003	0.896	31.78	0.806
Agriculture sector Year 2004	1.771	31.66	0.780
Agriculture sector Year 2005	0.025	30.34	0.773
Agriculture sector Year 2006	0.268	32.09	0.810
Agriculture sector Year 2007	0.042	30.76	0.741
Agriculture sector Year 2008	-0.004	32.02	0.833
Agriculture sector Year 2009	-1.039	31.18	0.796
Agriculture sector Year 2010	-1.848	31.54	0.903
Agriculture sector Year 2011	-0.335	32.29	0.888
Agriculture sector Year 2012	0.779	31.25	0.866
Agriculture sector Year 2013	0.400	32.31	0.840
Agriculture sector Year 2014	-1.148	31.17	0.738
Agriculture sector Year 2015	-0.354	31.96	0.893
Agriculture sector Year 2016	-0.470	32.29	0.836
Agriculture sector Year 2017	0.034	31.89	0.822
Agriculture sector Year 2018	-0.564	31.96	0.793
Agriculture sector Year 2019	-0.006	32.1	0.852
Agriculture sector Year 2020	1.603	31.23	0.819
Agriculture sector Year 2021	0.900	32.51	0.771
Agriculture sector Year 2022	-0.999	30.85	0.911
Cars polluting potential Year 2003	-0.042	32.39	0.772
Cars polluting potential Year 2004	-0.646	30.91	0.838
Cars polluting potential Year 2005	0.033	30.27	0.746
Cars polluting potential Year 2006	0.086	30.95	0.815
Cars polluting potential Year 2007	0.747	31.72	0.841
Cars polluting potential Year 2008	1.459	31.42	0.686
Cars polluting potential Year 2009	-0.329	31.67	0.843
Cars polluting potential Year 2010	-0.136	31.88	0.851
Cars polluting potential Year 2011	-0.925	31.18	0.762
Cars polluting potential Year 2012	-0.134	31.55	0.771
Cars polluting potential Year 2013	0.197	32.15	0.943
Cars polluting potential Year 2014	-0.931	31.79	0.843
Cars polluting potential Year 2015	0.470	31.08	0.880
Cars polluting potential Year 2016	-0.594	32.01	0.875
Cars polluting potential Year 2017	-1.608	31.19	0.746
Cars polluting potential Year 2018	1.431	31.49	0.872
Cars polluting potential Year 2019	0.246	31.08	0.730
Cars polluting potential Year 2020	0.390	31.08	0.762
Cars polluting potential Year 2021	0.567	31.73	0.704
Cars polluting potential Year 2022	-1.223	31.85	0.703
Construction sector Year 2003	0.888	32.86	0.831
Construction sector Year 2004	0.314	31.72	0.851
Construction sector Year 2005	-0.170	30.8	0.872
Construction sector Year 2006	0.702	31.62	0.819
Construction sector Year 2007	-0.816	31.76	0.751
Construction sector Year 2008	-0.270	32.05	0.846
Construction sector Year 2009	0.755	31.83	0.830
Construction sector Year 2010	-0.365	30.88	0.800
Construction sector Year 2011	-1.314	32	0.837

Construction sector Year 2012	1.020	31.76	0.862
Construction sector Year 2013	0.225	31.52	0.643
Construction sector Year 2014	-0.376	31.47	0.948
Construction sector Year 2015	-1.686	31.65	0.874
Construction sector Year 2016	0.690	31.82	0.870
Construction sector Year 2017	-0.031	31.57	0.776
Construction sector Year 2018	-0.514	32.18	0.921
Construction sector Year 2019	0.270	31.36	0.758
Construction sector Year 2020	-0.607	31.58	0.832
Construction sector Year 2021	-0.102	31.12	0.818
Construction sector Year 2022	-1.268	32.03	0.931
Expenditure for round trip Italy-abroad Year 2003	-1.385	31.06	0.760
Expenditure for round trip Italy-abroad Year 2004	0.712	31.34	0.824
Expenditure for round trip Italy-abroad Year 2005	-1.008	31.22	0.754
Expenditure for round trip Italy-abroad Year 2006	0.356	32.1	0.855
Expenditure for round trip Italy-abroad Year 2007	-0.346	32.2	0.808
Expenditure for round trip Italy-abroad Year 2008	-0.215	31.44	0.886
Expenditure for round trip Italy-abroad Year 2009	0.907	31.62	0.826
Expenditure for round trip Italy-abroad Year 2010	-0.344	31.42	0.883
Expenditure for round trip Italy-abroad Year 2011	-1.036	31.43	0.856
Expenditure for round trip Italy-abroad Year 2012	0.630	32.03	0.731
Expenditure for round trip Italy-abroad Year 2013	-0.066	31.39	0.874
Expenditure for round trip Italy-abroad Year 2014	-0.645	31.46	0.714
Expenditure for round trip Italy-abroad Year 2015	-1.870	31.3	0.719
Expenditure for round trip Italy-abroad Year 2016	-0.919	31.99	0.855
Expenditure for round trip Italy-abroad Year 2017	0.164	31.14	0.896
Expenditure for round trip Italy-abroad Year 2018	-0.257	31.11	0.843
Expenditure for round trip Italy-abroad Year 2019	1.099	32.07	0.843
Expenditure for round trip Italy-abroad Year 2020	0.941	31.45	0.925
Expenditure for round trip Italy-abroad Year 2021	0.743	32.39	0.855
Expenditure for round trip Italy-abroad Year 2022	-0.892	31.81	0.907
Expenditure for transport within destination Year 2003	-0.595	31.32	0.863
Expenditure for transport within destination Year 2004	-0.353	31.46	0.909
Expenditure for transport within destination Year 2005	-1.060	32.29	0.903
Expenditure for transport within destination Year 2006	-1.156	31.28	0.697
Expenditure for transport within destination Year 2007	-0.230	31.49	0.861
Expenditure for transport within destination Year 2008	-1.329	31.27	0.852
Expenditure for transport within destination Year 2009	0.260	31.36	0.753
Expenditure for transport within destination Year 2010	0.827	32.24	0.725
Expenditure for transport within destination Year 2011	0.232	31.86	0.885
Expenditure for transport within destination Year 2012	-0.113	32.67	0.858
Expenditure for transport within destination Year 2013	-0.204	31.46	0.768
Expenditure for transport within destination Year 2014	-1.513	30.88	0.738
Expenditure for transport within destination Year 2015	-0.948	31.51	0.832
Expenditure for transport within destination Year 2016	0.637	31.44	0.873
Expenditure for transport within destination Year 2017	1.697	30.95	0.872
Expenditure for transport within destination Year 2018	0.063	30.76	0.935
Expenditure for transport within destination Year 2019	1.763	31.36	0.950
Expenditure for transport within destination Year 2020	-0.669	32.44	0.788

Expenditure for transport within destination Year 2021	0.751	31.36	0.850
Expenditure for transport within destination Year 2022	1.763	31.99	0.764
Manufacturing sector Year 2003	-0.115	31.87	0.824
Manufacturing sector Year 2004	0.337	32.28	0.776
Manufacturing sector Year 2005	-0.518	32.67	0.940
Manufacturing sector Year 2006	-0.777	32.83	0.919
Manufacturing sector Year 2007	1.040	31.92	0.739
Manufacturing sector Year 2008	0.633	31.37	0.829
Manufacturing sector Year 2009	-1.659	31.09	0.835
Manufacturing sector Year 2010	-0.882	31.15	0.793
Manufacturing sector Year 2011	-0.630	30.65	0.703
Manufacturing sector Year 2012	1.171	32.05	0.815
Manufacturing sector Year 2013	0.190	31.24	0.889
Manufacturing sector Year 2014	-0.400	31.91	0.833
Manufacturing sector Year 2015	0.075	31.49	0.875
Manufacturing sector Year 2016	-0.129	31.4	0.705
Manufacturing sector Year 2017	0.422	32.07	0.845
Manufacturing sector Year 2018	-0.207	30.64	0.768
Manufacturing sector Year 2019	0.733	32	0.867
Manufacturing sector Year 2020	0.216	31.42	0.933
Manufacturing sector Year 2021	0.505	32.03	0.797
Manufacturing sector Year 2022	-2.430	32.2	0.823
Mining sector Year 2003	-0.405	31.78	0.767
Mining sector Year 2004	0.845	31.49	0.832
Mining sector Year 2005	1.062	31.37	0.850
Mining sector Year 2006	0.060	32.54	0.940
Mining sector Year 2007	0.394	32.46	0.861
Mining sector Year 2008	0.425	32.56	0.778
Mining sector Year 2009	-0.175	31.68	0.858
Mining sector Year 2010	-0.846	31.24	0.742
Mining sector Year 2011	1.057	30.72	0.858
Mining sector Year 2012	0.147	32.34	0.804
Mining sector Year 2013	0.836	30.84	0.803
Mining sector Year 2014	-2.500	31.43	0.751
Mining sector Year 2015	-0.258	31.93	0.756
Mining sector Year 2016	-0.034	32.16	0.799
Mining sector Year 2017	-0.420	32.3	0.831
Mining sector Year 2018	1.545	32.03	0.850
Mining sector Year 2019	1.089	32.29	0.847
Mining sector Year 2020	-0.291	31.65	0.849
Mining sector Year 2021	-0.328	31.97	0.877
Mining sector Year 2022	-1.045	31.73	0.644
Motorization rate Year 2003	0.470	30.71	0.770
Motorization rate Year 2004	-0.488	31.54	0.731
Motorization rate Year 2005	-0.037	30.84	0.781
Motorization rate Year 2006	0.140	31.28	0.860
Motorization rate Year 2007	-1.982	31.58	0.721
Motorization rate Year 2008	-0.694	30.48	0.753
Motorization rate Year 2009	0.145	31.3	0.696

Motorization rate Year 2010	0.735	32.03	0.821
Motorization rate Year 2011	0.336	31.62	0.849
Motorization rate Year 2012	-0.710	32.08	0.834
Motorization rate Year 2013	-0.067	31.18	0.720
Motorization rate Year 2014	0.410	31.18	0.928
Motorization rate Year 2015	-0.660	31.17	0.863
Motorization rate Year 2016	1.759	31.27	0.702
Motorization rate Year 2017	-0.899	31.84	0.864
Motorization rate Year 2018	-0.341	31.77	0.732
Motorization rate Year 2019	0.250	31.92	0.854
Motorization rate Year 2020	-0.119	30.95	0.724
Motorization rate Year 2021	2.214	31.9	0.899
Motorization rate Year 2022	-0.639	31.8	0.806
Proportion of Air travelers Year 2003	0.329	31.66	0.945
Proportion of Air travelers Year 2004	-1.061	31.25	0.690
Proportion of Air travelers Year 2005	1.207	30.17	0.669
Proportion of Air travelers Year 2006	-0.058	33.15	0.796
Proportion of Air travelers Year 2007	-0.193	31.14	0.777
Proportion of Air travelers Year 2008	2.095	30.99	0.839
Proportion of Air travelers Year 2009	-0.088	31.54	0.749
Proportion of Air travelers Year 2010	0.331	31.8	0.891
Proportion of Air travelers Year 2011	-1.740	30.77	0.808
Proportion of Air travelers Year 2012	1.089	31.46	0.759
Proportion of Air travelers Year 2013	-0.309	30.92	0.808
Proportion of Air travelers Year 2014	-0.094	31.95	0.812
Proportion of Air travelers Year 2015	1.642	31.66	0.806
Proportion of Air travelers Year 2016	0.017	31.11	0.720
Proportion of Air travelers Year 2017	-1.448	32.27	0.923
Proportion of Air travelers Year 2018	0.065	32.13	0.751
Proportion of Air travelers Year 2019	0.417	31.63	0.619
Proportion of Air travelers Year 2020	0.301	31.56	0.832
Proportion of Air travelers Year 2021	0.034	31.85	0.944
Proportion of Air travelers Year 2022	0.036	31.78	0.825
Proportion of Road travelers Year 2003	-0.453	32.34	0.865
Proportion of Road travelers Year 2004	0.367	31.6	0.669
Proportion of Road travelers Year 2005	0.732	32.55	0.785
Proportion of Road travelers Year 2006	0.228	31.52	0.860
Proportion of Road travelers Year 2007	1.127	31.08	0.789
Proportion of Road travelers Year 2008	1.197	30.93	0.804
Proportion of Road travelers Year 2009	0.184	31.98	0.817
Proportion of Road travelers Year 2010	0.462	31.73	0.826
Proportion of Road travelers Year 2011	-0.318	31.68	0.757
Proportion of Road travelers Year 2012	-0.248	30.88	0.820
Proportion of Road travelers Year 2013	0.161	31.62	0.894
Proportion of Road travelers Year 2014	0.018	31.95	0.741
Proportion of Road travelers Year 2015	0.317	31.97	0.916
Proportion of Road travelers Year 2016	1.496	30.27	0.653
Proportion of Road travelers Year 2017	-0.778	31.92	0.870
Proportion of Road travelers Year 2018	-0.056	31.22	0.729

Proportion of Road travelers Year 2019	-0.096	32.05	0.821
Proportion of Road travelers Year 2020	0.828	30.76	0.815
Proportion of Road travelers Year 2021	-1.109	32.01	0.797
Proportion of Road travelers Year 2022	0.240	30.11	0.895
Proportion of Train passengers Year 2003	-0.768	30.95	0.915
Proportion of Train passengers Year 2004	0.983	31.46	0.776
Proportion of Train passengers Year 2005	-0.062	32.29	0.762
Proportion of Train passengers Year 2006	-0.156	32.18	0.950
Proportion of Train passengers Year 2007	0.683	31.7	0.809
Proportion of Train passengers Year 2008	-0.642	32.13	0.829
Proportion of Train passengers Year 2009	-1.248	31.04	0.751
Proportion of Train passengers Year 2010	0.887	31.83	0.790
Proportion of Train passengers Year 2011	0.231	32.12	0.709
Proportion of Train passengers Year 2012	0.488	31.96	0.784
Proportion of Train passengers Year 2013	-0.961	31.64	0.692
Proportion of Train passengers Year 2014	-0.185	32.34	0.713
Proportion of Train passengers Year 2015	0.219	31.72	0.762
Proportion of Train passengers Year 2016	1.632	31.99	0.912
Proportion of Train passengers Year 2017	0.071	32.4	0.739
Proportion of Train passengers Year 2018	0.043	30.95	0.859
Proportion of Train passengers Year 2019	0.665	31.8	0.942
Proportion of Train passengers Year 2020	-0.393	30.83	0.768
Proportion of Train passengers Year 2021	1.315	31.77	0.881
Proportion of Train passengers Year 2022	0.072	30.62	0.802
Transport & Communication sector Year 2003	0.151	31.1	0.788
Transport & Communication sector Year 2004	0.368	30.91	0.803
Transport & Communication sector Year 2005	0.423	31.2	0.844
Transport & Communication sector Year 2006	0.153	31.08	0.846
Transport & Communication sector Year 2007	0.611	31.89	0.848
Transport & Communication sector Year 2008	0.241	31.03	0.777
Transport & Communication sector Year 2009	-0.015	30.82	0.794
Transport & Communication sector Year 2010	-0.250	31.55	0.852
Transport & Communication sector Year 2011	-0.961	33.15	0.704
Transport & Communication sector Year 2012	-0.347	31.54	0.957
Transport & Communication sector Year 2013	0.938	31.56	0.841
Transport & Communication sector Year 2014	0.636	31.19	0.812
Transport & Communication sector Year 2015	0.567	31.96	0.897
Transport & Communication sector Year 2016	0.838	32.14	0.835
Transport & Communication sector Year 2017	-0.100	31.5	0.721
Transport & Communication sector Year 2018	-0.486	31.84	0.779
Transport & Communication sector Year 2019	-0.108	32.49	0.776
Transport & Communication sector Year 2020	0.644	31.51	1.038
Transport & Communication sector Year 2021	0.069	31.78	0.747
Transport & Communication sector Year 2022	1.007	31.67	0.814
Dependent variable: NO2	Estimated coefficient	Standard Error	MC Error
Ancona Fixed effect	0.118	32.6	0.833
Livorno Fixed effect	-0.910	31.99	0.903
Mantova Fixed effect	-0.063	31.79	0.751

Messina Fixed effect	-0.612	32.44	0.835
Milan Fixed effect	-1.332	31.44	0.820
Naples Fixed effect	-1.294	31.07	0.859
Novara Fixed effect	0.291	32.06	0.796
Palermo Fixed effect	-0.289	32.21	0.882
Pavia Fixed effect	-0.608	32.84	0.848
Pisa Fixed effect	0.428	31.15	0.897
Ravenna Fixed effect	-0.106	31.42	0.959
Bari Fixed effect	-0.324	31.77	0.956
Rome Fixed effect	0.578	31.94	0.846
Siena Fixed effect	-1.000	31.19	0.726
Siracusa Fixed effect	0.258	31.61	0.756
Taranto Fixed effect	1.201	31.78	0.685
Turin Fixed effect	0.965	30.49	0.876
Venice Fixed effect	0.273	32.12	0.763
Bologna Fixed effect	-0.825	31.59	0.699
Cagliari Fixed effect	-0.577	32.01	0.760
Caltanissetta Fixed effect	-2.734	30.67	0.721
Catania Fixed effect	-0.579	30.81	0.811
Cremona Fixed effect	-1.091	31.31	0.756
Florence Fixed effect	0.547	32.2	1.012
Genova Fixed effect	0.162	32.63	0.889
Agriculture sector Year 2003	0.243	30.02	0.778
Agriculture sector Year 2004	0.656	31.17	0.791
Agriculture sector Year 2005	0.579	31.95	0.856
Agriculture sector Year 2006	-0.620	31.03	0.852
Agriculture sector Year 2007	1.450	31.37	0.758
Agriculture sector Year 2008	0.391	31.82	0.906
Agriculture sector Year 2009	-0.810	32.22	0.751
Agriculture sector Year 2010	0.496	31.78	0.740
Agriculture sector Year 2011	-0.280	31.11	0.766
Agriculture sector Year 2012	-0.686	31.13	0.812
Agriculture sector Year 2013	-0.219	32.33	0.928
Agriculture sector Year 2014	-1.393	32.05	0.863
Agriculture sector Year 2015	-1.399	32.46	0.797
Agriculture sector Year 2016	-0.297	31.45	0.740
Agriculture sector Year 2017	-0.385	31.69	0.815
Agriculture sector Year 2018	-0.259	31.9	0.773
Agriculture sector Year 2019	1.385	31.41	0.888
Agriculture sector Year 2020	-0.299	31.75	0.759
Agriculture sector Year 2021	0.215	33.3	0.800
Agriculture sector Year 2022	-0.922	30.98	0.925
Cars polluting potential Year 2003	-0.026	31.61	0.737
Cars polluting potential Year 2004	0.859	31.16	0.788
Cars polluting potential Year 2005	-0.067	30.94	0.822
Cars polluting potential Year 2006	-0.751	31.73	0.828
Cars polluting potential Year 2007	-0.298	32	0.708
Cars polluting potential Year 2008	0.643	30.77	0.722
Cars polluting potential Year 2009	-0.859	31.06	0.839

Cars polluting potential Year 2010	-0.373	32.72	0.764
Cars polluting potential Year 2011	-0.495	32	0.879
Cars polluting potential Year 2012	-2.036	32.04	0.883
Cars polluting potential Year 2013	1.422	30.65	0.755
Cars polluting potential Year 2014	-0.757	31.86	0.769
Cars polluting potential Year 2015	-0.162	32.2	0.876
Cars polluting potential Year 2016	-0.615	30.63	0.772
Cars polluting potential Year 2017	-0.252	31.71	0.814
Cars polluting potential Year 2018	0.557	30.84	0.701
Cars polluting potential Year 2019	0.187	31.86	0.843
Cars polluting potential Year 2020	0.041	32.56	0.817
Cars polluting potential Year 2021	-1.485	31.69	0.927
Cars polluting potential Year 2022	-0.611	32.41	0.815
Construction sector Year 2003	-0.547	31.46	0.849
Construction sector Year 2004	-0.600	31.91	0.813
Construction sector Year 2005	-0.226	31.38	0.797
Construction sector Year 2006	-1.836	31.31	0.828
Construction sector Year 2007	2.037	32.12	0.786
Construction sector Year 2008	-0.765	31.36	0.866
Construction sector Year 2009	-0.091	31.75	0.794
Construction sector Year 2010	-0.310	31.2	0.644
Construction sector Year 2011	0.400	32.1	0.874
Construction sector Year 2012	0.841	31.54	0.646
Construction sector Year 2013	-0.059	31.71	0.757
Construction sector Year 2014	-0.071	30.7	0.732
Construction sector Year 2015	1.195	32.37	0.746
Construction sector Year 2016	1.347	32.05	0.774
Construction sector Year 2017	0.496	31.93	0.843
Construction sector Year 2018	0.915	30.83	0.841
Construction sector Year 2019	-0.201	31.42	0.748
Construction sector Year 2020	1.539	30.95	0.759
Construction sector Year 2021	-0.167	31.49	0.893
Construction sector Year 2022	0.759	31.07	0.804
Expenditure for round trip Italy-abroad Year 2003	1.154	32.13	0.817
Expenditure for round trip Italy-abroad Year 2004	0.414	31.24	0.764
Expenditure for round trip Italy-abroad Year 2005	-0.791	31.53	0.803
Expenditure for round trip Italy-abroad Year 2006	0.027	31.58	0.790
Expenditure for round trip Italy-abroad Year 2007	0.307	31.57	0.861
Expenditure for round trip Italy-abroad Year 2008	0.938	32.82	0.871
Expenditure for round trip Italy-abroad Year 2009	1.036	32.3	0.746
Expenditure for round trip Italy-abroad Year 2010	1.248	31.56	0.715
Expenditure for round trip Italy-abroad Year 2011	0.567	30.26	0.732
Expenditure for round trip Italy-abroad Year 2012	-1.265	32.43	0.776
Expenditure for round trip Italy-abroad Year 2013	-1.059	31.44	0.824
Expenditure for round trip Italy-abroad Year 2014	-1.701	31.4	0.903
Expenditure for round trip Italy-abroad Year 2015	0.915	31.38	0.802
Expenditure for round trip Italy-abroad Year 2016	1.040	31.55	0.803
Expenditure for round trip Italy-abroad Year 2017	-0.839	33.14	0.971
Expenditure for round trip Italy-abroad Year 2018	0.247	30.94	0.772

Expenditure for round trip Italy-abroad Year 2019	-0.001	31.14	0.837
Expenditure for round trip Italy-abroad Year 2020	-1.448	33.12	0.850
Expenditure for round trip Italy-abroad Year 2021	-1.052	31.73	0.824
Expenditure for round trip Italy-abroad Year 2022	-1.214	31.89	0.851
Expenditure for transport within destination Year 2003	0.451	31.05	0.835
Expenditure for transport within destination Year 2004	-1.564	32.82	0.735
Expenditure for transport within destination Year 2005	0.643	30.51	0.711
Expenditure for transport within destination Year 2006	-0.769	32.05	0.678
Expenditure for transport within destination Year 2007	-1.144	31.47	0.820
Expenditure for transport within destination Year 2008	0.834	31.34	0.881
Expenditure for transport within destination Year 2009	-0.530	32.42	0.864
Expenditure for transport within destination Year 2010	-0.573	31.44	0.956
Expenditure for transport within destination Year 2011	-0.609	31.08	0.773
Expenditure for transport within destination Year 2012	0.256	31.66	0.815
Expenditure for transport within destination Year 2013	-0.720	29.9	0.685
Expenditure for transport within destination Year 2014	0.863	31.87	0.851
Expenditure for transport within destination Year 2015	0.398	31.88	0.758
Expenditure for transport within destination Year 2016	-0.334	32.51	0.840
Expenditure for transport within destination Year 2017	-0.712	31.71	0.728
Expenditure for transport within destination Year 2018	-0.428	31.98	0.842
Expenditure for transport within destination Year 2019	-0.011	31.51	0.762
Expenditure for transport within destination Year 2020	-0.637	31.9	0.727
Expenditure for transport within destination Year 2021	1.036	31.08	0.840
Expenditure for transport within destination Year 2022	1.344	31.56	0.861
Manufacturing sector Year 2003	-0.474	31.15	0.888
Manufacturing sector Year 2004	-0.215	31.33	0.810
Manufacturing sector Year 2005	1.129	32.59	0.931
Manufacturing sector Year 2006	1.123	30.34	0.712
Manufacturing sector Year 2007	-0.136	31.1	0.751
Manufacturing sector Year 2008	0.497	30.93	0.832
Manufacturing sector Year 2009	-0.300	30.44	0.795
Manufacturing sector Year 2010	2.134	31.93	0.678
Manufacturing sector Year 2011	0.278	31.51	0.872
Manufacturing sector Year 2012	1.616	31.2	0.812
Manufacturing sector Year 2013	-0.482	31.83	0.739
Manufacturing sector Year 2014	0.509	32.9	0.894
Manufacturing sector Year 2015	0.399	32.06	0.812
Manufacturing sector Year 2016	2.290	30.96	0.813
Manufacturing sector Year 2017	0.240	32.01	0.904
Manufacturing sector Year 2018	-0.480	31.86	0.904
Manufacturing sector Year 2019	0.630	30.56	0.874
Manufacturing sector Year 2020	-1.078	32.02	0.771
Manufacturing sector Year 2021	-0.429	31.94	0.919
Manufacturing sector Year 2022	-0.652	31.03	0.729
Mining sector Year 2003	0.067	31.86	0.858
Mining sector Year 2004	-2.010	32.46	0.797
Mining sector Year 2005	-1.720	31.19	0.744
Mining sector Year 2006	-0.459	32.38	0.858
Mining sector Year 2007	-0.666	32.03	0.823

Mining sector Year 2008	-1.484	31.17	0.844
Mining sector Year 2009	0.391	31.2	0.773
Mining sector Year 2010	0.308	31.16	0.875
Mining sector Year 2011	-0.182	32.44	0.792
Mining sector Year 2012	0.907	32.73	0.869
Mining sector Year 2013	0.312	31.83	0.823
Mining sector Year 2014	0.997	32.07	0.805
Mining sector Year 2015	-0.320	30.98	0.845
Mining sector Year 2016	0.384	32.1	0.937
Mining sector Year 2017	0.162	31.81	0.720
Mining sector Year 2018	-0.401	32.26	0.819
Mining sector Year 2019	0.102	31.3	0.886
Mining sector Year 2020	1.094	32.19	0.791
Mining sector Year 2021	0.083	31.28	0.936
Mining sector Year 2022	0.399	30.81	0.758
Motorization rate Year 2003	-0.326	32.61	0.916
Motorization rate Year 2004	-1.697	31.62	0.841
Motorization rate Year 2005	0.030	30.48	0.717
Motorization rate Year 2006	-0.569	32.12	0.756
Motorization rate Year 2007	-0.100	31.13	0.885
Motorization rate Year 2008	0.967	32.62	0.828
Motorization rate Year 2009	-0.460	31.14	0.727
Motorization rate Year 2010	-0.950	31.16	0.632
Motorization rate Year 2011	-0.289	31.52	0.891
Motorization rate Year 2012	0.972	31.64	0.842
Motorization rate Year 2013	-0.767	31.66	0.800
Motorization rate Year 2014	-1.078	32.55	0.829
Motorization rate Year 2015	-0.057	31.55	0.803
Motorization rate Year 2016	-0.535	32.29	0.892
Motorization rate Year 2017	0.069	31.33	0.634
Motorization rate Year 2018	-0.391	31.45	0.872
Motorization rate Year 2019	1.303	31.1	0.890
Motorization rate Year 2020	-0.451	31.72	0.788
Motorization rate Year 2021	0.083	32.63	0.714
Motorization rate Year 2022	-0.097	31.88	0.891
Proportion of Air travelers Year 2003	-0.448	31.3	0.772
Proportion of Air travelers Year 2004	-1.081	31.56	0.914
Proportion of Air travelers Year 2005	0.401	30.35	0.735
Proportion of Air travelers Year 2006	-0.203	31.76	0.840
Proportion of Air travelers Year 2007	-1.114	30.82	0.807
Proportion of Air travelers Year 2008	0.792	31.06	0.718
Proportion of Air travelers Year 2009	1.167	31.67	0.849
Proportion of Air travelers Year 2010	0.625	31.55	0.731
Proportion of Air travelers Year 2011	-1.104	31.48	0.733
Proportion of Air travelers Year 2012	-1.112	32.17	0.837
Proportion of Air travelers Year 2013	0.279	31.38	0.798
Proportion of Air travelers Year 2014	-0.849	31.46	0.709
Proportion of Air travelers Year 2015	-0.313	31.91	0.827
Proportion of Air travelers Year 2016	-0.381	31.7	0.765

Proportion of Air travelers Year 2017	-0.149	30.98	0.786
Proportion of Air travelers Year 2018	0.636	32.13	0.874
Proportion of Air travelers Year 2019	-0.591	31.78	0.817
Proportion of Air travelers Year 2020	0.832	31.47	0.722
Proportion of Air travelers Year 2021	-1.131	31.95	0.824
Proportion of Air travelers Year 2022	1.433	32.08	0.885
Proportion of Road travelers Year 2003	0.732	32.07	0.815
Proportion of Road travelers Year 2004	-0.404	32.13	0.884
Proportion of Road travelers Year 2005	0.495	31.98	0.858
Proportion of Road travelers Year 2006	-0.315	31.84	0.808
Proportion of Road travelers Year 2007	-0.329	31.72	0.926
Proportion of Road travelers Year 2008	2.177	31.33	0.804
Proportion of Road travelers Year 2009	0.316	32.07	0.747
Proportion of Road travelers Year 2010	-0.965	32.65	0.745
Proportion of Road travelers Year 2011	-1.248	32.25	0.695
Proportion of Road travelers Year 2012	1.894	30.52	0.809
Proportion of Road travelers Year 2013	-2.281	31.66	0.853
Proportion of Road travelers Year 2014	0.178	33.11	0.903
Proportion of Road travelers Year 2015	-0.765	31.29	0.860
Proportion of Road travelers Year 2016	-0.279	31.35	0.755
Proportion of Road travelers Year 2017	-1.114	31.13	0.837
Proportion of Road travelers Year 2018	0.149	31.6	0.783
Proportion of Road travelers Year 2019	0.650	30.67	0.775
Proportion of Road travelers Year 2020	-0.230	32.37	0.748
Proportion of Road travelers Year 2021	1.269	30.74	0.679
Proportion of Road travelers Year 2022	-0.189	31.3	0.680
Proportion of Train passengers Year 2003	-0.213	30.91	0.728
Proportion of Train passengers Year 2004	0.103	31	0.870
Proportion of Train passengers Year 2005	-0.343	31.83	0.788
Proportion of Train passengers Year 2006	-0.049	30.82	0.822
Proportion of Train passengers Year 2007	1.382	32.21	0.896
Proportion of Train passengers Year 2008	0.741	31.12	0.861
Proportion of Train passengers Year 2009	-0.321	31.4	0.856
Proportion of Train passengers Year 2010	-0.607	31.7	0.832
Proportion of Train passengers Year 2011	0.394	30.8	0.615
Proportion of Train passengers Year 2012	0.533	32.27	0.878
Proportion of Train passengers Year 2013	0.362	31.76	0.917
Proportion of Train passengers Year 2014	-0.098	32.19	0.783
Proportion of Train passengers Year 2015	-0.697	33.42	0.825
Proportion of Train passengers Year 2016	-0.192	31.99	0.854
Proportion of Train passengers Year 2017	0.980	31.99	0.858
Proportion of Train passengers Year 2018	0.136	31.93	0.769
Proportion of Train passengers Year 2019	-0.176	31.92	0.796
Proportion of Train passengers Year 2020	0.877	31.89	0.819
Proportion of Train passengers Year 2021	-1.556	31.18	0.770
Proportion of Train passengers Year 2022	0.129	31.35	0.803
Transport & Communication sector Year 2003	0.999	31.09	0.857
Transport & Communication sector Year 2004	0.082	31.42	0.717
Transport & Communication sector Year 2005	1.086	32.83	0.803

Transport & Communication sector Year 2006	0.162	31.99	0.692
Transport & Communication sector Year 2007	-1.951	30.59	0.811
Transport & Communication sector Year 2008	-0.524	31.58	0.725
Transport & Communication sector Year 2009	1.361	31.01	0.829
Transport & Communication sector Year 2010	-0.056	31.33	0.700
Transport & Communication sector Year 2011	0.214	31.51	0.860
Transport & Communication sector Year 2012	0.614	31.44	0.846
Transport & Communication sector Year 2013	-0.688	32.38	0.884
Transport & Communication sector Year 2014	-0.575	32.14	0.755
Transport & Communication sector Year 2015	-0.752	30.96	0.822
Transport & Communication sector Year 2016	-0.773	30.9	0.850
Transport & Communication sector Year 2017	0.043	31.17	0.695
Transport & Communication sector Year 2018	0.068	30.71	0.751
Transport & Communication sector Year 2019	0.187	31.53	0.871
Transport & Communication sector Year 2020	0.210	32.47	0.783
Transport & Communication sector Year 2021	-0.355	31.99	0.863
Transport & Communication sector Year 2022	2.328	31.47	0.892

Dependent variable: Non-methane organic compounds	Estimated coefficient	Standard Error	MC Error
Ancona Fixed effect	0.602	31.79	0.880
Livorno Fixed effect	0.513	30.94	0.828
Mantova Fixed effect	0.451	33.33	0.941
Messina Fixed effect	-0.239	31.49	0.750
Milan Fixed effect	-1.807	32.46	0.834
Naples Fixed effect	0.529	30.35	0.706
Novara Fixed effect	0.721	31.49	0.721
Palermo Fixed effect	1.329	31.52	0.808
Pavia Fixed effect	0.004	32.65	0.831
Pisa Fixed effect	0.521	31.96	0.749
Ravenna Fixed effect	-0.810	31.16	0.787
Bari Fixed effect	-0.959	31.62	0.871
Rome Fixed effect	0.533	30.77	0.915
Siena Fixed effect	-1.226	32.57	0.851
Siracusa Fixed effect	-0.684	32.18	0.840
Taranto Fixed effect	1.472	31.18	0.797
Turin Fixed effect	0.842	31.27	0.761
Venice Fixed effect	-0.141	31.14	0.695
Bologna Fixed effect	-0.900	31.64	0.801
Cagliari Fixed effect	0.062	32.08	0.814
Caltanissetta Fixed effect	-0.172	31.06	0.926
Catania Fixed effect	0.480	31.15	0.727
Cremona Fixed effect	0.692	32.07	0.861
Florence Fixed effect	-0.843	31.88	0.870
Genova Fixed effect	-0.589	30.88	0.732
Agriculture sector Year 2003	-0.070	31.02	0.706
Agriculture sector Year 2004	-0.118	32.43	0.923
Agriculture sector Year 2005	-1.371	31.75	0.909
Agriculture sector Year 2006	-1.161	30.98	0.855
Agriculture sector Year 2007	-1.046	31.87	0.764

Agriculture sector Year 2008	-1.185	32.19	0.884
Agriculture sector Year 2009	-0.324	31.7	0.781
Agriculture sector Year 2010	-0.823	31.79	0.806
Agriculture sector Year 2011	-0.272	30.93	0.753
Agriculture sector Year 2012	-1.207	32.01	0.845
Agriculture sector Year 2013	-0.049	31.99	0.904
Agriculture sector Year 2014	0.207	31.83	0.753
Agriculture sector Year 2015	-0.576	32.24	0.878
Agriculture sector Year 2016	-0.382	32.11	0.955
Agriculture sector Year 2017	-0.788	32.65	0.923
Agriculture sector Year 2018	0.683	31.25	0.782
Agriculture sector Year 2019	0.407	32.08	0.808
Agriculture sector Year 2020	-0.493	31.95	0.891
Agriculture sector Year 2021	0.326	31.16	0.845
Agriculture sector Year 2022	0.017	32.65	0.878
Cars polluting potential Year 2003	0.266	32.3	0.833
Cars polluting potential Year 2004	-1.917	31.66	0.702
Cars polluting potential Year 2005	-0.796	30.73	0.832
Cars polluting potential Year 2006	-0.281	32.01	0.815
Cars polluting potential Year 2007	0.171	31.91	0.887
Cars polluting potential Year 2008	-1.246	31.41	0.809
Cars polluting potential Year 2009	-0.471	31.57	0.860
Cars polluting potential Year 2010	-0.110	32.75	0.922
Cars polluting potential Year 2011	-0.433	30.89	0.865
Cars polluting potential Year 2012	-0.261	31.52	0.830
Cars polluting potential Year 2013	-0.461	31.49	0.803
Cars polluting potential Year 2014	0.717	30.77	0.946
Cars polluting potential Year 2015	-0.089	31.73	0.932
Cars polluting potential Year 2016	-0.147	30.71	0.969
Cars polluting potential Year 2017	0.309	31.16	0.746
Cars polluting potential Year 2018	-0.833	31.22	0.879
Cars polluting potential Year 2019	0.643	32.66	0.798
Cars polluting potential Year 2020	-1.682	31.23	0.769
Cars polluting potential Year 2021	-0.173	31.68	0.754
Cars polluting potential Year 2022	0.414	32.21	0.913
Construction sector Year 2003	0.662	31.68	0.978
Construction sector Year 2004	-0.877	31.73	0.656
Construction sector Year 2005	-0.364	31.73	0.800
Construction sector Year 2006	-0.263	30.89	0.738
Construction sector Year 2007	0.339	30.33	0.808
Construction sector Year 2008	1.802	31.65	0.871
Construction sector Year 2009	-0.126	31.06	0.848
Construction sector Year 2010	0.770	31.71	0.821
Construction sector Year 2011	0.187	30.78	0.808
Construction sector Year 2012	-0.463	31.4	0.661
Construction sector Year 2013	0.721	32.3	0.848
Construction sector Year 2014	-0.744	31.13	0.763
Construction sector Year 2015	0.243	30.59	0.805
Construction sector Year 2016	0.270	31.14	0.723

Construction sector Year 2017	-1.803	30.66	0.792
Construction sector Year 2018	-0.451	32.47	0.891
Construction sector Year 2019	-1.189	32.12	0.920
Construction sector Year 2020	-0.104	32.24	0.729
Construction sector Year 2021	-1.610	32.35	0.863
Construction sector Year 2022	0.857	31.85	0.839
Expenditure for round trip Italy-abroad Year 2003	-1.490	30.58	0.694
Expenditure for round trip Italy-abroad Year 2004	-0.539	31.2	0.881
Expenditure for round trip Italy-abroad Year 2005	-0.932	31.42	0.677
Expenditure for round trip Italy-abroad Year 2006	0.178	32.53	0.825
Expenditure for round trip Italy-abroad Year 2007	2.055	31.41	0.886
Expenditure for round trip Italy-abroad Year 2008	0.581	32.8	0.744
Expenditure for round trip Italy-abroad Year 2009	0.030	31.17	0.808
Expenditure for round trip Italy-abroad Year 2010	0.255	32.7	0.811
Expenditure for round trip Italy-abroad Year 2011	-1.078	32.04	0.746
Expenditure for round trip Italy-abroad Year 2012	-0.852	31.05	0.591
Expenditure for round trip Italy-abroad Year 2013	0.145	31.02	0.882
Expenditure for round trip Italy-abroad Year 2014	-0.177	31.75	0.649
Expenditure for round trip Italy-abroad Year 2015	0.165	31.42	0.826
Expenditure for round trip Italy-abroad Year 2016	0.489	31.6	0.801
Expenditure for round trip Italy-abroad Year 2017	0.289	31.52	0.897
Expenditure for round trip Italy-abroad Year 2018	-0.276	30.89	0.904
Expenditure for round trip Italy-abroad Year 2019	0.269	31	0.678
Expenditure for round trip Italy-abroad Year 2020	0.417	31.62	0.826
Expenditure for round trip Italy-abroad Year 2021	1.427	31.62	0.881
Expenditure for round trip Italy-abroad Year 2022	-0.882	31.79	0.831
Expenditure for transport within destination Year 2003	0.066	31.39	0.867
Expenditure for transport within destination Year 2004	-0.705	31.59	0.874
Expenditure for transport within destination Year 2005	-0.156	31.81	0.896
Expenditure for transport within destination Year 2006	-0.162	31.9	0.782
Expenditure for transport within destination Year 2007	-2.042	31.26	0.785
Expenditure for transport within destination Year 2008	-0.199	31.58	0.900
Expenditure for transport within destination Year 2009	0.049	31.59	0.871
Expenditure for transport within destination Year 2010	0.375	31.91	0.807
Expenditure for transport within destination Year 2011	-0.633	31.83	0.840
Expenditure for transport within destination Year 2012	-0.716	32.02	0.854
Expenditure for transport within destination Year 2013	-0.150	31.34	0.831
Expenditure for transport within destination Year 2014	-0.759	33.43	0.840
Expenditure for transport within destination Year 2015	-0.327	31.19	0.821
Expenditure for transport within destination Year 2016	-0.522	32.57	0.787
Expenditure for transport within destination Year 2017	0.225	32.3	0.805
Expenditure for transport within destination Year 2018	1.391	30.93	0.793
Expenditure for transport within destination Year 2019	-1.627	31.72	0.709
Expenditure for transport within destination Year 2020	-1.128	31.78	0.690
Expenditure for transport within destination Year 2021	0.812	32.49	0.750
Expenditure for transport within destination Year 2022	1.398	32.35	0.817
Manufacturing sector Year 2003	0.176	32.08	0.806
Manufacturing sector Year 2004	1.175	31.55	0.796
Manufacturing sector Year 2005	0.648	31.74	0.892

Manufacturing sector Year 2006	-1.082	31.88	0.924
Manufacturing sector Year 2007	-0.444	31.82	0.714
Manufacturing sector Year 2008	0.295	31.32	0.785
Manufacturing sector Year 2009	-0.063	32.24	0.866
Manufacturing sector Year 2010	1.089	31.92	0.877
Manufacturing sector Year 2011	-1.720	31.25	0.715
Manufacturing sector Year 2012	0.998	30.64	0.852
Manufacturing sector Year 2013	-0.654	31.31	0.728
Manufacturing sector Year 2014	-1.119	32.1	0.944
Manufacturing sector Year 2015	-1.033	31.2	0.797
Manufacturing sector Year 2016	0.632	31.24	0.874
Manufacturing sector Year 2017	1.009	32.29	0.977
Manufacturing sector Year 2018	-0.189	31.87	0.902
Manufacturing sector Year 2019	-0.042	31.83	0.690
Manufacturing sector Year 2020	-0.210	31.15	0.729
Manufacturing sector Year 2021	0.266	31.61	0.863
Manufacturing sector Year 2022	-0.892	31.58	0.776
Mining sector Year 2003	-0.347	32.6	0.938
Mining sector Year 2004	0.408	32	0.726
Mining sector Year 2005	-2.132	30.95	0.804
Mining sector Year 2006	0.244	32.01	0.807
Mining sector Year 2007	0.747	32.35	0.735
Mining sector Year 2008	0.253	31.33	0.737
Mining sector Year 2009	0.495	32.34	0.945
Mining sector Year 2010	1.136	31.83	0.892
Mining sector Year 2011	0.857	32.13	0.938
Mining sector Year 2012	0.562	31.74	0.836
Mining sector Year 2013	2.298	31.52	0.959
Mining sector Year 2014	-2.055	31.42	0.698
Mining sector Year 2015	1.220	30.99	0.799
Mining sector Year 2016	0.358	31.67	0.910
Mining sector Year 2017	-1.280	31.39	0.748
Mining sector Year 2018	-0.030	30.96	0.736
Mining sector Year 2019	-1.347	32.53	0.767
Mining sector Year 2020	-0.692	31.37	0.814
Mining sector Year 2021	-0.520	31.62	0.886
Mining sector Year 2022	-1.236	31.68	0.905
Motorization rate Year 2003	-1.143	32.74	0.852
Motorization rate Year 2004	-0.369	32.65	0.877
Motorization rate Year 2005	-0.259	32.36	0.793
Motorization rate Year 2006	0.466	31.15	0.743
Motorization rate Year 2007	-0.795	31.39	0.801
Motorization rate Year 2008	-0.035	31.76	0.812
Motorization rate Year 2009	0.076	31.65	0.812
Motorization rate Year 2010	-0.062	31.46	0.758
Motorization rate Year 2011	0.644	32.48	0.757
Motorization rate Year 2012	0.453	31.1	0.755
Motorization rate Year 2013	-0.548	31.13	0.945
Motorization rate Year 2014	0.024	31.26	0.837

Motorization rate Year 2015	-0.966	31.04	0.745
Motorization rate Year 2016	-1.262	31.18	0.857
Motorization rate Year 2017	1.377	31.65	0.889
Motorization rate Year 2018	0.843	32.22	0.983
Motorization rate Year 2019	-0.147	32.02	0.877
Motorization rate Year 2020	0.652	31.52	0.830
Motorization rate Year 2021	0.742	32.23	0.755
Motorization rate Year 2022	-0.847	31.54	0.792
Proportion of Air travelers Year 2003	-1.110	31.01	0.880
Proportion of Air travelers Year 2004	-0.324	31.16	0.720
Proportion of Air travelers Year 2005	-1.119	30.55	0.815
Proportion of Air travelers Year 2006	0.950	32.21	0.680
Proportion of Air travelers Year 2007	-0.879	31.82	0.800
Proportion of Air travelers Year 2008	-0.178	30.69	0.778
Proportion of Air travelers Year 2009	0.242	30.77	0.884
Proportion of Air travelers Year 2010	-0.918	32.21	0.782
Proportion of Air travelers Year 2011	1.053	31.13	0.821
Proportion of Air travelers Year 2012	-0.440	33.03	0.816
Proportion of Air travelers Year 2013	0.214	32.34	0.810
Proportion of Air travelers Year 2014	0.219	31.4	0.855
Proportion of Air travelers Year 2015	0.290	32.04	1.040
Proportion of Air travelers Year 2016	-0.189	33.16	0.774
Proportion of Air travelers Year 2017	-1.250	31.49	0.985
Proportion of Air travelers Year 2018	0.153	31.17	0.733
Proportion of Air travelers Year 2019	-0.152	32.39	0.739
Proportion of Air travelers Year 2020	0.334	31.07	0.836
Proportion of Air travelers Year 2021	-0.167	31.44	0.843
Proportion of Air travelers Year 2022	0.073	31.94	0.772
Proportion of Road travelers Year 2003	1.290	31.81	0.758
Proportion of Road travelers Year 2004	-0.152	31.49	0.817
Proportion of Road travelers Year 2005	-0.476	32.06	0.821
Proportion of Road travelers Year 2006	-0.876	29.94	0.866
Proportion of Road travelers Year 2007	-0.668	31.14	0.765
Proportion of Road travelers Year 2008	0.343	32.24	0.703
Proportion of Road travelers Year 2009	0.709	31.64	0.929
Proportion of Road travelers Year 2010	-0.411	31.15	0.792
Proportion of Road travelers Year 2011	-0.654	31.36	0.808
Proportion of Road travelers Year 2012	-0.102	31.63	0.823
Proportion of Road travelers Year 2013	0.446	32.04	0.854
Proportion of Road travelers Year 2014	1.444	31.61	0.765
Proportion of Road travelers Year 2015	0.164	31.75	0.819
Proportion of Road travelers Year 2016	-0.920	32.2	0.804
Proportion of Road travelers Year 2017	0.373	32.76	0.854
Proportion of Road travelers Year 2018	-0.050	32.25	0.744
Proportion of Road travelers Year 2019	-0.662	31.49	0.751
Proportion of Road travelers Year 2020	0.482	31.78	0.825
Proportion of Road travelers Year 2021	1.029	30.2	0.691
Proportion of Road travelers Year 2022	-1.038	31.46	0.891
Proportion of Train passengers Year 2003	0.092	30.93	0.843

Proportion of Train passengers Year 2004	0.259	30.78	0.859
Proportion of Train passengers Year 2005	0.110	31.43	0.806
Proportion of Train passengers Year 2006	-0.794	30.95	0.748
Proportion of Train passengers Year 2007	-0.252	32.15	0.908
Proportion of Train passengers Year 2008	-0.346	31.43	0.870
Proportion of Train passengers Year 2009	-0.189	31.82	0.902
Proportion of Train passengers Year 2010	1.108	31.37	0.758
Proportion of Train passengers Year 2011	-0.859	31.17	0.820
Proportion of Train passengers Year 2012	-0.225	32.05	0.924
Proportion of Train passengers Year 2013	-1.470	32.71	0.858
Proportion of Train passengers Year 2014	-0.078	31.15	0.831
Proportion of Train passengers Year 2015	0.094	32.23	0.925
Proportion of Train passengers Year 2016	-0.170	32.04	0.823
Proportion of Train passengers Year 2017	-0.043	32.35	0.883
Proportion of Train passengers Year 2018	-0.383	32.46	0.661
Proportion of Train passengers Year 2019	-0.608	31.91	0.804
Proportion of Train passengers Year 2020	-0.477	31.59	0.748
Proportion of Train passengers Year 2021	0.481	32.39	0.818
Proportion of Train passengers Year 2022	0.973	32.1	0.765
Transport & Communication sector Year 2003	-0.154	31.65	0.850
Transport & Communication sector Year 2004	-0.308	31.6	0.913
Transport & Communication sector Year 2005	-0.696	31.96	0.746
Transport & Communication sector Year 2006	-0.017	32.34	0.883
Transport & Communication sector Year 2007	-0.294	32.72	0.779
Transport & Communication sector Year 2008	0.132	32.12	0.855
Transport & Communication sector Year 2009	0.105	31.71	0.777
Transport & Communication sector Year 2010	-0.987	31.56	0.811
Transport & Communication sector Year 2011	-0.490	30.82	0.811
Transport & Communication sector Year 2012	-0.540	31.7	0.807
Transport & Communication sector Year 2013	0.376	31.87	0.832
Transport & Communication sector Year 2014	-0.467	31.26	0.816
Transport & Communication sector Year 2015	0.745	32.22	0.855
Transport & Communication sector Year 2016	-0.923	31.36	0.706
Transport & Communication sector Year 2017	-0.640	31.2	0.788
Transport & Communication sector Year 2018	-0.089	31.83	0.855
Transport & Communication sector Year 2019	0.269	32.7	0.970
Transport & Communication sector Year 2020	-0.108	30.14	0.731
Transport & Communication sector Year 2021	0.816	31.61	0.828
Transport & Communication sector Year 2022	-1.422	31.9	0.789
Dependent variable: O3	Estimated coefficient	Standard Error	MC Error
Ancona Fixed effect	-0.002	32.01	0.726
Livorno Fixed effect	0.317	31.09	0.829
Mantova Fixed effect	-0.135	32.56	0.831
Messina Fixed effect	0.325	31.07	0.761
Milan Fixed effect	-0.081	31.97	0.790
Naples Fixed effect	2.085	30.93	0.797
Novara Fixed effect	0.700	30.69	0.871
Palermo Fixed effect	-2.346	32.47	0.876

Pavia Fixed effect	0.054	31.89	0.861
Pisa Fixed effect	-0.280	31.18	0.851
Ravenna Fixed effect	-1.094	31.2	0.763
Bari Fixed effect	1.591	31.46	0.858
Rome Fixed effect	1.727	32.83	0.980
Siena Fixed effect	0.165	31.37	0.861
Siracusa Fixed effect	0.191	30.92	0.744
Taranto Fixed effect	-0.282	31.22	0.700
Turin Fixed effect	-0.730	31.41	0.697
Venice Fixed effect	-1.064	32.47	0.837
Bologna Fixed effect	0.836	32.09	0.833
Cagliari Fixed effect	1.103	31.18	0.820
Caltanissetta Fixed effect	0.857	31.15	0.808
Catania Fixed effect	-0.157	32.08	0.816
Cremona Fixed effect	-0.358	31.99	0.810
Florence Fixed effect	0.108	31.51	0.771
Genova Fixed effect	0.019	30.84	0.769
Agriculture sector Year 2003	0.570	31.27	0.784
Agriculture sector Year 2004	-1.245	31.68	0.753
Agriculture sector Year 2005	0.852	32.08	0.799
Agriculture sector Year 2006	1.432	31.79	0.750
Agriculture sector Year 2007	-1.042	31.76	0.816
Agriculture sector Year 2008	0.247	31.26	0.884
Agriculture sector Year 2009	0.164	30.8	0.780
Agriculture sector Year 2010	-0.440	32.4	0.800
Agriculture sector Year 2011	1.149	31.12	0.815
Agriculture sector Year 2012	0.550	31.3	0.772
Agriculture sector Year 2013	0.573	30.75	0.788
Agriculture sector Year 2014	-0.652	31.48	0.864
Agriculture sector Year 2015	-0.081	31.42	0.810
Agriculture sector Year 2016	0.628	30.96	0.835
Agriculture sector Year 2017	-1.161	31.46	0.841
Agriculture sector Year 2018	0.506	31.04	0.832
Agriculture sector Year 2019	-3.147	31.32	0.801
Agriculture sector Year 2020	0.194	31.86	0.753
Agriculture sector Year 2021	-1.079	31.33	0.910
Agriculture sector Year 2022	0.706	31.67	0.837
Cars polluting potential Year 2003	-0.726	30.72	0.832
Cars polluting potential Year 2004	-0.140	31.61	0.898
Cars polluting potential Year 2005	-0.888	32.2	0.915
Cars polluting potential Year 2006	0.409	31.93	0.791
Cars polluting potential Year 2007	0.425	32.41	0.857
Cars polluting potential Year 2008	1.697	31.11	0.793
Cars polluting potential Year 2009	2.423	31.07	0.760
Cars polluting potential Year 2010	0.660	31.73	0.879
Cars polluting potential Year 2011	0.121	31.64	0.736
Cars polluting potential Year 2012	-0.282	31.85	0.745
Cars polluting potential Year 2013	0.779	31.75	0.819
Cars polluting potential Year 2014	-0.444	32.85	0.867

Cars polluting potential Year 2015	0.879	30.96	0.795
Cars polluting potential Year 2016	-0.852	31.54	0.857
Cars polluting potential Year 2017	-0.181	32.66	0.881
Cars polluting potential Year 2018	0.224	31.66	0.789
Cars polluting potential Year 2019	1.253	31.79	0.808
Cars polluting potential Year 2020	-0.125	32.85	0.805
Cars polluting potential Year 2021	-1.103	31.76	0.730
Cars polluting potential Year 2022	0.941	30.86	0.849
Construction sector Year 2003	-0.443	32.28	0.914
Construction sector Year 2004	-0.374	31.7	0.707
Construction sector Year 2005	1.279	31.24	0.690
Construction sector Year 2006	-1.145	31.83	0.948
Construction sector Year 2007	-0.685	30.31	0.900
Construction sector Year 2008	-2.226	30.79	0.718
Construction sector Year 2009	-0.126	31.23	0.693
Construction sector Year 2010	0.806	31.27	0.706
Construction sector Year 2011	-0.739	30.42	0.739
Construction sector Year 2012	-0.691	31.22	0.755
Construction sector Year 2013	0.946	31.48	0.653
Construction sector Year 2014	1.555	31.7	0.716
Construction sector Year 2015	0.116	31.85	0.819
Construction sector Year 2016	1.351	31.01	0.801
Construction sector Year 2017	-2.034	31.88	0.720
Construction sector Year 2018	-0.966	31.1	0.727
Construction sector Year 2019	0.193	31.85	0.879
Construction sector Year 2020	-0.362	31.65	0.795
Construction sector Year 2021	0.675	32.06	0.870
Construction sector Year 2022	-0.258	31.34	0.825
Expenditure for round trip Italy-abroad Year 2003	-0.420	31.14	0.763
Expenditure for round trip Italy-abroad Year 2004	-1.811	31.37	0.842
Expenditure for round trip Italy-abroad Year 2005	-0.219	32.57	0.898
Expenditure for round trip Italy-abroad Year 2006	1.037	32.49	0.802
Expenditure for round trip Italy-abroad Year 2007	-0.586	32.4	0.832
Expenditure for round trip Italy-abroad Year 2008	-1.033	31.84	0.783
Expenditure for round trip Italy-abroad Year 2009	0.970	32.11	0.834
Expenditure for round trip Italy-abroad Year 2010	1.003	31.59	0.964
Expenditure for round trip Italy-abroad Year 2011	0.002	31.13	0.867
Expenditure for round trip Italy-abroad Year 2012	0.067	31.25	0.815
Expenditure for round trip Italy-abroad Year 2013	-0.803	30.35	0.754
Expenditure for round trip Italy-abroad Year 2014	-1.025	31.97	0.894
Expenditure for round trip Italy-abroad Year 2015	0.634	31.33	0.785
Expenditure for round trip Italy-abroad Year 2016	0.544	31.88	0.771
Expenditure for round trip Italy-abroad Year 2017	0.090	31.52	0.700
Expenditure for round trip Italy-abroad Year 2018	1.273	31.29	0.693
Expenditure for round trip Italy-abroad Year 2019	0.559	32.56	0.938
Expenditure for round trip Italy-abroad Year 2020	-1.142	31.84	0.714
Expenditure for round trip Italy-abroad Year 2021	-0.384	31.79	0.828
Expenditure for round trip Italy-abroad Year 2022	1.193	31.9	0.747
Expenditure for transport within destination Year 2003	0.764	31.44	0.833

Expenditure for transport within destination Year 2004	0.566	31.83	0.827
Expenditure for transport within destination Year 2005	-0.418	32.39	0.813
Expenditure for transport within destination Year 2006	0.190	32.14	0.865
Expenditure for transport within destination Year 2007	-1.604	31.85	0.686
Expenditure for transport within destination Year 2008	0.020	30.58	0.789
Expenditure for transport within destination Year 2009	-0.903	32.02	0.881
Expenditure for transport within destination Year 2010	0.057	30.92	0.703
Expenditure for transport within destination Year 2011	0.396	31.53	0.929
Expenditure for transport within destination Year 2012	0.820	31.88	0.797
Expenditure for transport within destination Year 2013	1.729	31.41	0.763
Expenditure for transport within destination Year 2014	0.058	30.43	0.806
Expenditure for transport within destination Year 2015	0.486	30.35	0.769
Expenditure for transport within destination Year 2016	-0.493	32.93	0.965
Expenditure for transport within destination Year 2017	0.273	32.35	0.902
Expenditure for transport within destination Year 2018	0.458	31.35	0.835
Expenditure for transport within destination Year 2019	-0.549	32.05	0.768
Expenditure for transport within destination Year 2020	1.767	31.86	0.756
Expenditure for transport within destination Year 2021	1.118	31.14	0.855
Expenditure for transport within destination Year 2022	-0.536	30.79	0.766
Manufacturing sector Year 2003	0.149	31.22	0.716
Manufacturing sector Year 2004	-0.250	32.55	0.843
Manufacturing sector Year 2005	0.901	31.59	0.926
Manufacturing sector Year 2006	0.005	32.42	0.793
Manufacturing sector Year 2007	0.674	31.7	0.952
Manufacturing sector Year 2008	-1.422	31.24	0.662
Manufacturing sector Year 2009	0.914	30.83	0.806
Manufacturing sector Year 2010	0.433	31.74	0.718
Manufacturing sector Year 2011	0.119	31.53	0.810
Manufacturing sector Year 2012	1.689	31.7	0.858
Manufacturing sector Year 2013	-0.494	31.4	0.806
Manufacturing sector Year 2014	-0.454	31.86	0.769
Manufacturing sector Year 2015	1.331	32.14	0.802
Manufacturing sector Year 2016	1.011	32.22	0.847
Manufacturing sector Year 2017	-0.065	30.89	0.823
Manufacturing sector Year 2018	-0.451	31.94	0.902
Manufacturing sector Year 2019	0.002	31.07	0.914
Manufacturing sector Year 2020	0.376	31.68	0.704
Manufacturing sector Year 2021	-0.184	31.05	0.772
Manufacturing sector Year 2022	-1.526	32.15	0.822
Mining sector Year 2003	1.539	32.3	0.820
Mining sector Year 2004	0.789	30.82	0.876
Mining sector Year 2005	-1.428	31.69	0.813
Mining sector Year 2006	-0.300	31.25	0.773
Mining sector Year 2007	0.183	31.79	0.781
Mining sector Year 2008	0.139	31.58	0.834
Mining sector Year 2009	0.857	31.26	0.772
Mining sector Year 2010	1.069	31.28	0.771
Mining sector Year 2011	0.218	32.09	0.822
Mining sector Year 2012	-1.121	31.63	0.879

Mining sector Year 2013	-0.336	31.02	0.824
Mining sector Year 2014	1.277	33.4	0.752
Mining sector Year 2015	-0.105	31.41	0.786
Mining sector Year 2016	0.458	31.25	0.778
Mining sector Year 2017	-0.267	30.62	0.815
Mining sector Year 2018	-2.420	31.53	0.739
Mining sector Year 2019	0.624	31.47	0.754
Mining sector Year 2020	-0.100	31.85	0.919
Mining sector Year 2021	-0.097	31.08	0.821
Mining sector Year 2022	0.803	30.27	0.718
Motorization rate Year 2003	-1.713	31.64	0.807
Motorization rate Year 2004	-2.547	31.47	0.764
Motorization rate Year 2005	-1.560	32.02	0.856
Motorization rate Year 2006	1.470	32.24	0.933
Motorization rate Year 2007	-0.317	31.14	0.769
Motorization rate Year 2008	-0.340	31.38	0.736
Motorization rate Year 2009	1.180	32.75	0.813
Motorization rate Year 2010	0.345	31.18	0.754
Motorization rate Year 2011	0.549	31.62	0.687
Motorization rate Year 2012	0.749	30.82	0.784
Motorization rate Year 2013	0.352	30.75	0.734
Motorization rate Year 2014	-0.488	32.19	0.848
Motorization rate Year 2015	-1.432	32.71	0.961
Motorization rate Year 2016	-0.920	31.3	0.757
Motorization rate Year 2017	-0.284	31.43	0.905
Motorization rate Year 2018	-0.053	31.91	0.858
Motorization rate Year 2019	-1.204	32.42	0.762
Motorization rate Year 2020	1.854	30.76	0.861
Motorization rate Year 2021	1.092	30.77	0.915
Motorization rate Year 2022	0.139	31.9	0.898
Proportion of Air travelers Year 2003	-0.348	31.61	0.713
Proportion of Air travelers Year 2004	0.114	30.98	0.880
Proportion of Air travelers Year 2005	-0.182	30.94	0.861
Proportion of Air travelers Year 2006	-0.471	31.84	0.872
Proportion of Air travelers Year 2007	-0.712	31.15	0.834
Proportion of Air travelers Year 2008	1.267	31.4	0.853
Proportion of Air travelers Year 2009	-0.727	31.16	0.864
Proportion of Air travelers Year 2010	1.301	32.39	0.938
Proportion of Air travelers Year 2011	-0.230	31.33	0.823
Proportion of Air travelers Year 2012	-0.493	31.05	0.754
Proportion of Air travelers Year 2013	0.290	31.52	0.900
Proportion of Air travelers Year 2014	-0.175	31.64	0.847
Proportion of Air travelers Year 2015	0.992	32.08	0.789
Proportion of Air travelers Year 2016	-0.780	31.06	0.733
Proportion of Air travelers Year 2017	0.499	31.97	0.880
Proportion of Air travelers Year 2018	0.373	32.35	0.828
Proportion of Air travelers Year 2019	0.378	31.49	0.807
Proportion of Air travelers Year 2020	0.040	31.59	0.651
Proportion of Air travelers Year 2021	-1.511	30.78	0.742

Proportion of Air travelers Year 2022	-1.239	31.38	0.794
Proportion of Road travelers Year 2003	-1.040	31.36	0.814
Proportion of Road travelers Year 2004	0.927	32.41	0.752
Proportion of Road travelers Year 2005	0.483	31.3	0.851
Proportion of Road travelers Year 2006	0.370	31.8	0.869
Proportion of Road travelers Year 2007	0.046	31.21	0.833
Proportion of Road travelers Year 2008	0.331	31.62	0.846
Proportion of Road travelers Year 2009	-0.460	32.03	0.848
Proportion of Road travelers Year 2010	0.133	31.75	0.824
Proportion of Road travelers Year 2011	0.847	32.1	0.871
Proportion of Road travelers Year 2012	-0.137	31.78	0.783
Proportion of Road travelers Year 2013	0.883	32.29	0.877
Proportion of Road travelers Year 2014	-1.116	32.25	0.875
Proportion of Road travelers Year 2015	-0.728	31.96	0.838
Proportion of Road travelers Year 2016	-0.609	31.76	0.793
Proportion of Road travelers Year 2017	-0.366	31.04	0.813
Proportion of Road travelers Year 2018	0.857	31.54	0.950
Proportion of Road travelers Year 2019	-0.010	30.47	0.747
Proportion of Road travelers Year 2020	0.203	32.19	0.847
Proportion of Road travelers Year 2021	1.007	31.81	0.866
Proportion of Road travelers Year 2022	-1.425	31.1	0.827
Proportion of Train passengers Year 2003	0.910	31.8	0.843
Proportion of Train passengers Year 2004	0.178	31.9	0.843
Proportion of Train passengers Year 2005	1.442	30.37	0.753
Proportion of Train passengers Year 2006	-0.947	31.67	0.943
Proportion of Train passengers Year 2007	-0.044	31.52	0.814
Proportion of Train passengers Year 2008	-0.338	30.42	0.882
Proportion of Train passengers Year 2009	0.620	31.26	0.772
Proportion of Train passengers Year 2010	0.209	31.04	0.852
Proportion of Train passengers Year 2011	0.261	31.84	0.816
Proportion of Train passengers Year 2012	-0.502	31.42	0.793
Proportion of Train passengers Year 2013	-0.311	31.4	0.753
Proportion of Train passengers Year 2014	0.758	31.9	0.739
Proportion of Train passengers Year 2015	-1.395	31.73	0.813
Proportion of Train passengers Year 2016	0.092	31.27	0.792
Proportion of Train passengers Year 2017	-0.500	30.84	0.787
Proportion of Train passengers Year 2018	-0.826	31.55	0.791
Proportion of Train passengers Year 2019	0.354	32.3	0.721
Proportion of Train passengers Year 2020	-0.893	32.16	0.881
Proportion of Train passengers Year 2021	0.171	31.36	0.792
Proportion of Train passengers Year 2022	0.363	31.36	0.854
Transport & Communication sector Year 2003	0.924	32.01	0.786
Transport & Communication sector Year 2004	0.501	31.53	0.995
Transport & Communication sector Year 2005	-0.393	30.73	0.790
Transport & Communication sector Year 2006	-0.307	31.97	0.817
Transport & Communication sector Year 2007	0.060	31.24	0.791
Transport & Communication sector Year 2008	-0.930	30.76	0.879
Transport & Communication sector Year 2009	-0.271	31.2	0.726
Transport & Communication sector Year 2010	-0.605	31.85	0.896

Transport & Communication sector Year 2011	0.468	31.92	0.766
Transport & Communication sector Year 2012	0.164	32.04	0.867
Transport & Communication sector Year 2013	-0.983	31.29	0.714
Transport & Communication sector Year 2014	0.799	31.07	0.831
Transport & Communication sector Year 2015	0.196	30.67	0.862
Transport & Communication sector Year 2016	-0.273	32.07	0.708
Transport & Communication sector Year 2017	1.709	31.75	0.788
Transport & Communication sector Year 2018	-0.177	31.58	0.795
Transport & Communication sector Year 2019	0.572	31.3	0.981
Transport & Communication sector Year 2020	1.376	31.66	0.791
Transport & Communication sector Year 2021	-0.136	31.15	0.697
Transport & Communication sector Year 2022	-0.503	31.71	0.708

Dependent variable: PM10	Estimated coefficient	Standard Error	MC Error
Ancona Fixed effect	1.660	31.93	0.825
Livorno Fixed effect	0.631	31.72	0.855
Mantova Fixed effect	1.526	31.78	0.803
Messina Fixed effect	0.899	31.62	0.922
Milan Fixed effect	1.847	31.58	0.782
Naples Fixed effect	-0.752	31.49	0.840
Novara Fixed effect	-0.249	32.22	0.906
Palermo Fixed effect	0.809	31.93	0.734
Pavia Fixed effect	-0.579	31.37	0.755
Pisa Fixed effect	0.101	31.3	0.691
Ravenna Fixed effect	-0.340	32.5	0.790
Bari Fixed effect	-0.977	32.22	0.864
Rome Fixed effect	-1.249	31.83	0.842
Siena Fixed effect	0.279	31.27	0.808
Siracusa Fixed effect	0.124	32.09	0.705
Taranto Fixed effect	-1.763	31.22	0.746
Turin Fixed effect	0.006	31.31	0.821
Venice Fixed effect	-0.232	32.17	0.888
Bologna Fixed effect	0.903	31.29	0.798
Cagliari Fixed effect	1.411	30.83	0.802
Caltanissetta Fixed effect	2.029	31.66	0.859
Catania Fixed effect	0.886	32.01	0.808
Cremona Fixed effect	-0.255	31.28	0.743
Florence Fixed effect	0.337	31.54	0.905
Genova Fixed effect	-0.027	31.72	0.809
Agriculture sector Year 2003	-0.928	31.89	0.910
Agriculture sector Year 2004	0.050	30.56	0.886
Agriculture sector Year 2005	1.005	31.09	0.845
Agriculture sector Year 2006	-0.299	31.9	0.868
Agriculture sector Year 2007	1.350	31.2	0.689
Agriculture sector Year 2008	-1.011	31.29	0.784
Agriculture sector Year 2009	1.167	31.47	0.720
Agriculture sector Year 2010	-0.120	31.45	0.893
Agriculture sector Year 2011	-0.996	31.97	0.882
Agriculture sector Year 2012	0.442	31.81	0.795

Agriculture sector Year 2013	-1.283	31.78	0.733
Agriculture sector Year 2014	1.158	32.03	0.791
Agriculture sector Year 2015	-0.292	30.74	0.703
Agriculture sector Year 2016	0.041	31.89	0.841
Agriculture sector Year 2017	-2.575	31.13	0.858
Agriculture sector Year 2018	0.816	31.01	0.687
Agriculture sector Year 2019	0.263	32.34	0.872
Agriculture sector Year 2020	1.415	30.43	0.801
Agriculture sector Year 2021	0.435	32.35	0.731
Agriculture sector Year 2022	1.081	31.82	0.720
Cars polluting potential Year 2003	-0.492	31.47	0.764
Cars polluting potential Year 2004	-0.171	31.07	0.769
Cars polluting potential Year 2005	-0.251	31.72	0.967
Cars polluting potential Year 2006	1.033	31.36	0.973
Cars polluting potential Year 2007	0.938	31.85	0.787
Cars polluting potential Year 2008	0.780	31.39	0.664
Cars polluting potential Year 2009	0.096	31.27	0.729
Cars polluting potential Year 2010	-1.668	32.59	0.913
Cars polluting potential Year 2011	0.678	30.41	0.762
Cars polluting potential Year 2012	-0.136	31.12	0.745
Cars polluting potential Year 2013	-2.047	31.15	0.909
Cars polluting potential Year 2014	-0.639	31.16	0.772
Cars polluting potential Year 2015	-1.376	32.31	0.814
Cars polluting potential Year 2016	-0.094	30.2	0.684
Cars polluting potential Year 2017	0.991	31.21	0.870
Cars polluting potential Year 2018	-0.532	30.96	0.773
Cars polluting potential Year 2019	-0.104	33.04	0.927
Cars polluting potential Year 2020	-0.031	30.84	0.843
Cars polluting potential Year 2021	-0.121	31.62	0.847
Cars polluting potential Year 2022	1.012	31.47	0.870
Construction sector Year 2003	0.524	31.78	0.871
Construction sector Year 2004	1.071	32.38	0.708
Construction sector Year 2005	-1.614	32.25	0.880
Construction sector Year 2006	0.500	31.99	0.861
Construction sector Year 2007	1.126	31.01	0.793
Construction sector Year 2008	-0.329	31.62	0.780
Construction sector Year 2009	-0.179	31.78	0.866
Construction sector Year 2010	0.429	31.25	0.818
Construction sector Year 2011	0.388	32.3	0.824
Construction sector Year 2012	1.467	32.59	0.891
Construction sector Year 2013	0.550	30.79	0.842
Construction sector Year 2014	-1.709	30.52	0.898
Construction sector Year 2015	-0.241	31.91	0.817
Construction sector Year 2016	0.039	31.5	0.957
Construction sector Year 2017	1.323	32.54	1.011
Construction sector Year 2018	-0.397	30.71	0.808
Construction sector Year 2019	-0.441	31.82	0.885
Construction sector Year 2020	-0.343	32.21	0.740
Construction sector Year 2021	-0.153	31.3	0.805

Construction sector Year 2022	0.490	31.61	0.812
Expenditure for round trip Italy-abroad Year 2003	-1.277	31.71	0.956
Expenditure for round trip Italy-abroad Year 2004	0.847	31.46	0.732
Expenditure for round trip Italy-abroad Year 2005	-0.121	31.17	0.813
Expenditure for round trip Italy-abroad Year 2006	0.598	31.19	0.849
Expenditure for round trip Italy-abroad Year 2007	-1.354	30.99	0.716
Expenditure for round trip Italy-abroad Year 2008	0.351	31.9	0.791
Expenditure for round trip Italy-abroad Year 2009	-1.676	31.73	0.863
Expenditure for round trip Italy-abroad Year 2010	0.263	31.34	0.622
Expenditure for round trip Italy-abroad Year 2011	-0.303	30.92	0.630
Expenditure for round trip Italy-abroad Year 2012	-0.475	31.02	0.830
Expenditure for round trip Italy-abroad Year 2013	-0.878	32.28	0.881
Expenditure for round trip Italy-abroad Year 2014	-0.377	31	0.889
Expenditure for round trip Italy-abroad Year 2015	0.281	31.53	0.728
Expenditure for round trip Italy-abroad Year 2016	-0.890	31.33	0.863
Expenditure for round trip Italy-abroad Year 2017	0.251	32.51	0.727
Expenditure for round trip Italy-abroad Year 2018	-1.368	31.2	0.774
Expenditure for round trip Italy-abroad Year 2019	-0.220	32.17	0.941
Expenditure for round trip Italy-abroad Year 2020	0.591	31.93	0.713
Expenditure for round trip Italy-abroad Year 2021	0.552	30.96	0.722
Expenditure for round trip Italy-abroad Year 2022	0.455	31.65	0.757
Expenditure for transport within destination Year 2003	-0.520	31.28	0.833
Expenditure for transport within destination Year 2004	0.255	31.56	0.881
Expenditure for transport within destination Year 2005	-1.352	30.94	0.672
Expenditure for transport within destination Year 2006	-0.508	31.72	0.881
Expenditure for transport within destination Year 2007	1.064	31.1	0.761
Expenditure for transport within destination Year 2008	0.186	31.34	0.818
Expenditure for transport within destination Year 2009	-0.141	30.44	0.786
Expenditure for transport within destination Year 2010	0.168	31.71	0.864
Expenditure for transport within destination Year 2011	1.324	30.84	0.848
Expenditure for transport within destination Year 2012	0.243	31.18	0.726
Expenditure for transport within destination Year 2013	-0.840	32.61	0.768
Expenditure for transport within destination Year 2014	-0.119	31.9	0.921
Expenditure for transport within destination Year 2015	1.045	32.24	0.895
Expenditure for transport within destination Year 2016	0.594	32.4	0.784
Expenditure for transport within destination Year 2017	-0.903	32.55	0.807
Expenditure for transport within destination Year 2018	0.070	31.6	0.839
Expenditure for transport within destination Year 2019	0.282	32.96	0.855
Expenditure for transport within destination Year 2020	0.174	31.95	1.107
Expenditure for transport within destination Year 2021	0.243	31.19	0.780
Expenditure for transport within destination Year 2022	1.167	32.87	0.869
Manufacturing sector Year 2003	-0.138	31.76	0.740
Manufacturing sector Year 2004	0.657	31.04	0.692
Manufacturing sector Year 2005	-0.198	29.68	0.669
Manufacturing sector Year 2006	-0.165	31.14	0.848
Manufacturing sector Year 2007	0.598	31.51	0.827
Manufacturing sector Year 2008	-0.348	32.15	0.946
Manufacturing sector Year 2009	0.058	31.51	0.782
Manufacturing sector Year 2010	0.487	31.65	0.822

Manufacturing sector Year 2011	0.507	31.73	0.805
Manufacturing sector Year 2012	-0.197	31.18	0.721
Manufacturing sector Year 2013	-0.527	32.47	0.768
Manufacturing sector Year 2014	-1.680	31.01	0.766
Manufacturing sector Year 2015	0.144	32.04	0.825
Manufacturing sector Year 2016	-1.219	31.49	0.782
Manufacturing sector Year 2017	0.223	31.34	0.796
Manufacturing sector Year 2018	-0.118	31.64	0.758
Manufacturing sector Year 2019	0.414	31.63	0.948
Manufacturing sector Year 2020	-0.426	31.47	0.730
Manufacturing sector Year 2021	-0.895	31.83	0.833
Manufacturing sector Year 2022	0.049	30.45	0.811
Mining sector Year 2003	-1.574	30.98	0.602
Mining sector Year 2004	0.185	31.77	0.885
Mining sector Year 2005	1.463	31.04	0.766
Mining sector Year 2006	0.702	31.73	0.840
Mining sector Year 2007	-0.631	31.59	0.951
Mining sector Year 2008	-1.930	31.25	0.886
Mining sector Year 2009	-0.431	31.84	0.787
Mining sector Year 2010	0.361	30.89	0.688
Mining sector Year 2011	-0.774	32.14	0.881
Mining sector Year 2012	2.350	31.18	0.818
Mining sector Year 2013	-0.288	32.37	0.808
Mining sector Year 2014	-1.181	31.22	0.935
Mining sector Year 2015	0.767	31.73	0.811
Mining sector Year 2016	-0.395	30.92	0.757
Mining sector Year 2017	0.211	30.49	0.799
Mining sector Year 2018	-0.684	31.82	0.907
Mining sector Year 2019	0.631	31.98	0.809
Mining sector Year 2020	-0.411	31.52	0.786
Mining sector Year 2021	0.725	31.22	0.867
Mining sector Year 2022	-0.867	31.87	0.849
Motorization rate Year 2003	-0.258	31.78	0.961
Motorization rate Year 2004	0.077	31.4	0.919
Motorization rate Year 2005	-1.131	31.5	0.868
Motorization rate Year 2006	-0.269	32.37	0.949
Motorization rate Year 2007	-0.872	31.19	0.813
Motorization rate Year 2008	0.161	32.99	0.954
Motorization rate Year 2009	-1.328	31.02	0.683
Motorization rate Year 2010	-0.585	31.51	0.660
Motorization rate Year 2011	-0.375	32.55	0.792
Motorization rate Year 2012	-0.198	31.08	0.703
Motorization rate Year 2013	-0.429	31.87	0.848
Motorization rate Year 2014	0.043	31.28	0.839
Motorization rate Year 2015	0.846	31.58	0.755
Motorization rate Year 2016	0.521	30.57	0.724
Motorization rate Year 2017	0.273	30.82	0.791
Motorization rate Year 2018	0.911	31.64	0.871
Motorization rate Year 2019	-0.287	31.38	0.844

Motorization rate Year 2020	0.297	32.42	0.746
Motorization rate Year 2021	0.107	30.99	0.795
Motorization rate Year 2022	0.383	31.03	0.812
Proportion of Air travelers Year 2003	0.591	32.08	0.739
Proportion of Air travelers Year 2004	-1.859	31.18	0.738
Proportion of Air travelers Year 2005	0.154	31.98	0.843
Proportion of Air travelers Year 2006	-0.850	32.91	0.869
Proportion of Air travelers Year 2007	-0.151	31.36	0.827
Proportion of Air travelers Year 2008	0.985	32.14	0.790
Proportion of Air travelers Year 2009	0.345	31.36	0.760
Proportion of Air travelers Year 2010	0.247	31.87	0.842
Proportion of Air travelers Year 2011	0.446	30.14	0.806
Proportion of Air travelers Year 2012	-0.378	32	0.854
Proportion of Air travelers Year 2013	-0.001	32.79	0.765
Proportion of Air travelers Year 2014	1.097	31.33	0.760
Proportion of Air travelers Year 2015	0.926	31.52	0.855
Proportion of Air travelers Year 2016	0.103	32.41	0.902
Proportion of Air travelers Year 2017	1.178	32.13	0.807
Proportion of Air travelers Year 2018	-1.230	30.15	0.852
Proportion of Air travelers Year 2019	-0.794	31.09	0.845
Proportion of Air travelers Year 2020	-0.376	32.13	0.776
Proportion of Air travelers Year 2021	0.687	31.88	0.831
Proportion of Air travelers Year 2022	1.538	31.46	0.725
Proportion of Road travelers Year 2003	0.028	32.66	0.797
Proportion of Road travelers Year 2004	-0.830	30.82	0.728
Proportion of Road travelers Year 2005	1.226	30.98	0.734
Proportion of Road travelers Year 2006	-0.007	32.02	0.844
Proportion of Road travelers Year 2007	1.216	32.25	0.786
Proportion of Road travelers Year 2008	-0.585	32.27	0.803
Proportion of Road travelers Year 2009	-0.600	31.71	0.846
Proportion of Road travelers Year 2010	0.441	31.31	0.874
Proportion of Road travelers Year 2011	0.372	31.42	0.929
Proportion of Road travelers Year 2012	-0.526	32.52	0.796
Proportion of Road travelers Year 2013	0.396	32.05	0.781
Proportion of Road travelers Year 2014	-1.603	32.62	0.881
Proportion of Road travelers Year 2015	-0.352	32.53	0.777
Proportion of Road travelers Year 2016	-0.437	31.9	0.831
Proportion of Road travelers Year 2017	0.374	30.63	0.749
Proportion of Road travelers Year 2018	0.219	31.02	0.821
Proportion of Road travelers Year 2019	0.910	31.57	0.777
Proportion of Road travelers Year 2020	0.579	30.37	0.795
Proportion of Road travelers Year 2021	0.961	31.22	0.771
Proportion of Road travelers Year 2022	0.149	31.14	0.803
Proportion of Train passengers Year 2003	-0.182	30.83	0.791
Proportion of Train passengers Year 2004	0.869	31.6	0.742
Proportion of Train passengers Year 2005	-0.451	32.02	0.875
Proportion of Train passengers Year 2006	0.112	32.17	0.803
Proportion of Train passengers Year 2007	-1.660	31.54	0.879
Proportion of Train passengers Year 2008	1.086	31.07	0.822

Proportion of Train passengers Year 2009	0.027	31.84	0.873
Proportion of Train passengers Year 2010	0.146	31.4	0.801
Proportion of Train passengers Year 2011	-0.063	32.51	0.917
Proportion of Train passengers Year 2012	-0.572	32.41	0.873
Proportion of Train passengers Year 2013	0.230	31.88	0.876
Proportion of Train passengers Year 2014	-0.616	30.99	0.741
Proportion of Train passengers Year 2015	1.753	31.68	0.791
Proportion of Train passengers Year 2016	0.385	32.72	0.911
Proportion of Train passengers Year 2017	0.631	31.45	0.844
Proportion of Train passengers Year 2018	0.022	31.61	0.834
Proportion of Train passengers Year 2019	-0.135	31.76	0.846
Proportion of Train passengers Year 2020	1.259	31.32	0.865
Proportion of Train passengers Year 2021	0.417	32.3	0.893
Proportion of Train passengers Year 2022	-0.819	31.89	0.961
Transport & Communication sector Year 2003	0.322	31.2	0.815
Transport & Communication sector Year 2004	0.463	31.73	0.976
Transport & Communication sector Year 2005	0.679	31.39	0.885
Transport & Communication sector Year 2006	-0.572	31.69	0.766
Transport & Communication sector Year 2007	-1.188	31.98	0.763
Transport & Communication sector Year 2008	-0.194	31.96	0.799
Transport & Communication sector Year 2009	0.800	31.89	0.859
Transport & Communication sector Year 2010	-0.292	30.76	0.754
Transport & Communication sector Year 2011	0.407	31.96	0.861
Transport & Communication sector Year 2012	0.771	31.31	0.716
Transport & Communication sector Year 2013	0.016	31.86	0.787
Transport & Communication sector Year 2014	-0.300	30.34	0.787
Transport & Communication sector Year 2015	-1.031	31.28	0.864
Transport & Communication sector Year 2016	-0.010	31.24	0.865
Transport & Communication sector Year 2017	0.288	32.08	0.785
Transport & Communication sector Year 2018	0.924	30.2	0.833
Transport & Communication sector Year 2019	0.395	31.12	0.803
Transport & Communication sector Year 2020	0.911	32.16	0.772
Transport & Communication sector Year 2021	0.336	31.38	0.845
Transport & Communication sector Year 2022	1.156	31.83	0.867
Dependent variable: Urban forestation	Estimated coefficient	Standard Error	MC Error
Ancona Fixed effect	-1.589	31.3	0.908
Livorno Fixed effect	-1.083	31.71	0.886
Mantova Fixed effect	-0.824	31.34	0.734
Messina Fixed effect	0.343	30.74	1.056
Milan Fixed effect	0.529	31.77	0.857
Naples Fixed effect	1.113	32.2	0.870
Novara Fixed effect	0.620	30.9	0.649
Palermo Fixed effect	1.205	32.17	1.024
Pavia Fixed effect	0.722	31.82	0.818
Pisa Fixed effect	1.187	31.4	0.853
Ravenna Fixed effect	-0.105	32.32	0.711
Bari Fixed effect	-0.401	30.92	0.813
Rome Fixed effect	-0.410	32.55	0.870

Siena Fixed effect	0.090	31.53	0.859
Siracusa Fixed effect	0.696	31.33	0.842
Taranto Fixed effect	1.073	31.78	0.744
Turin Fixed effect	-0.306	32.45	0.886
Venice Fixed effect	-0.717	31.94	0.795
Bologna Fixed effect	-1.251	32.45	0.852
Cagliari Fixed effect	-0.282	33.11	0.973
Caltanissetta Fixed effect	-1.143	31.4	0.719
Catania Fixed effect	-0.844	31.29	0.811
Cremona Fixed effect	-0.960	31.55	0.797
Florence Fixed effect	-1.468	32.37	0.828
Genova Fixed effect	0.680	31.22	0.861
Agriculture sector Year 2003	1.336	31.97	0.670
Agriculture sector Year 2004	-0.575	32.03	0.821
Agriculture sector Year 2005	-0.452	31.67	0.860
Agriculture sector Year 2006	-1.124	32.01	0.863
Agriculture sector Year 2007	0.119	31.07	0.847
Agriculture sector Year 2008	-0.601	31.04	0.821
Agriculture sector Year 2009	-0.860	31.14	0.903
Agriculture sector Year 2010	0.358	31.16	0.760
Agriculture sector Year 2011	-0.878	31.72	0.718
Agriculture sector Year 2012	1.325	32.12	0.979
Agriculture sector Year 2013	-0.749	30.94	0.743
Agriculture sector Year 2014	-0.518	31.29	0.710
Agriculture sector Year 2015	-0.373	30.91	0.871
Agriculture sector Year 2016	-1.404	31.42	0.666
Agriculture sector Year 2017	0.685	30.39	0.680
Agriculture sector Year 2018	-0.309	31.58	0.872
Agriculture sector Year 2019	1.279	31.61	0.774
Agriculture sector Year 2020	0.012	31.31	0.726
Agriculture sector Year 2021	0.260	32.74	0.850
Agriculture sector Year 2022	0.456	31.38	0.893
Cars polluting potential Year 2003	1.244	31.82	0.779
Cars polluting potential Year 2004	0.294	31.72	0.892
Cars polluting potential Year 2005	-0.705	31.78	0.959
Cars polluting potential Year 2006	0.025	31.53	0.788
Cars polluting potential Year 2007	0.476	30.37	0.730
Cars polluting potential Year 2008	1.540	32.09	0.912
Cars polluting potential Year 2009	-2.375	31.24	0.856
Cars polluting potential Year 2010	0.235	31.68	0.875
Cars polluting potential Year 2011	-0.223	31.73	0.801
Cars polluting potential Year 2012	-0.551	31.14	0.868
Cars polluting potential Year 2013	-0.607	31.33	0.824
Cars polluting potential Year 2014	-0.816	31.14	0.783
Cars polluting potential Year 2015	0.907	30.68	0.808
Cars polluting potential Year 2016	-0.435	31.26	0.911
Cars polluting potential Year 2017	0.497	31.23	0.789
Cars polluting potential Year 2018	-0.232	31.57	0.744
Cars polluting potential Year 2019	0.316	32.59	0.945

Cars polluting potential Year 2020	0.273	31.06	0.862
Cars polluting potential Year 2021	-1.170	31.31	0.771
Cars polluting potential Year 2022	0.750	31.48	0.786
Construction sector Year 2003	-1.966	31.2	0.800
Construction sector Year 2004	-0.385	31.25	0.823
Construction sector Year 2005	-0.078	32.12	0.704
Construction sector Year 2006	-2.081	31.73	0.706
Construction sector Year 2007	-0.863	31.75	0.902
Construction sector Year 2008	-0.244	31.81	0.806
Construction sector Year 2009	1.470	30.76	0.891
Construction sector Year 2010	-0.677	32.61	0.883
Construction sector Year 2011	1.462	31.66	0.778
Construction sector Year 2012	-0.749	30.85	0.810
Construction sector Year 2013	-0.453	31.97	0.780
Construction sector Year 2014	-0.366	30.53	0.734
Construction sector Year 2015	-1.049	31.57	0.712
Construction sector Year 2016	-0.937	31.19	0.742
Construction sector Year 2017	1.476	30.37	0.744
Construction sector Year 2018	-1.186	31.82	0.944
Construction sector Year 2019	0.860	32.16	0.775
Construction sector Year 2020	-0.409	31.75	0.826
Construction sector Year 2021	0.529	32.54	0.766
Construction sector Year 2022	-0.500	30.59	0.797
Expenditure for round trip Italy-abroad Year 2003	-0.694	31.86	0.834
Expenditure for round trip Italy-abroad Year 2004	-0.141	30.78	0.686
Expenditure for round trip Italy-abroad Year 2005	-0.731	32.1	0.850
Expenditure for round trip Italy-abroad Year 2006	-0.087	31.73	0.902
Expenditure for round trip Italy-abroad Year 2007	0.330	30.6	0.668
Expenditure for round trip Italy-abroad Year 2008	0.151	31.27	0.875
Expenditure for round trip Italy-abroad Year 2009	0.804	30.98	0.757
Expenditure for round trip Italy-abroad Year 2010	-0.033	31.42	0.806
Expenditure for round trip Italy-abroad Year 2011	-1.199	31.42	0.886
Expenditure for round trip Italy-abroad Year 2012	-0.806	32.56	0.877
Expenditure for round trip Italy-abroad Year 2013	-0.216	31.22	0.731
Expenditure for round trip Italy-abroad Year 2014	-0.618	32.48	0.888
Expenditure for round trip Italy-abroad Year 2015	-0.066	32.31	0.712
Expenditure for round trip Italy-abroad Year 2016	-0.413	30.95	0.761
Expenditure for round trip Italy-abroad Year 2017	1.140	31.55	0.857
Expenditure for round trip Italy-abroad Year 2018	-0.167	31.84	0.940
Expenditure for round trip Italy-abroad Year 2019	-0.061	31.28	0.833
Expenditure for round trip Italy-abroad Year 2020	-0.187	31.84	0.904
Expenditure for round trip Italy-abroad Year 2021	-0.734	31.14	0.596
Expenditure for round trip Italy-abroad Year 2022	-0.086	32.02	0.833
Expenditure for transport within destination Year 2003	-0.373	30.95	0.724
Expenditure for transport within destination Year 2004	0.242	30.55	0.798
Expenditure for transport within destination Year 2005	0.775	31.35	0.862
Expenditure for transport within destination Year 2006	0.687	31.74	0.858
Expenditure for transport within destination Year 2007	1.105	30.69	0.796
Expenditure for transport within destination Year 2008	-0.125	31.55	0.731

Expenditure for transport within destination Year 2009	0.054	31.39	0.733
Expenditure for transport within destination Year 2010	1.495	31.73	0.776
Expenditure for transport within destination Year 2011	-0.637	31.36	0.876
Expenditure for transport within destination Year 2012	1.325	31.91	0.796
Expenditure for transport within destination Year 2013	-1.256	32.26	0.841
Expenditure for transport within destination Year 2014	-0.674	31.22	0.889
Expenditure for transport within destination Year 2015	-1.405	31.34	1.022
Expenditure for transport within destination Year 2016	0.058	31.78	0.843
Expenditure for transport within destination Year 2017	-0.777	31.02	0.819
Expenditure for transport within destination Year 2018	-1.313	30.17	0.778
Expenditure for transport within destination Year 2019	0.260	32.04	0.878
Expenditure for transport within destination Year 2020	0.800	30.53	0.838
Expenditure for transport within destination Year 2021	0.286	31.68	0.852
Expenditure for transport within destination Year 2022	-0.103	31.69	1.146
Manufacturing sector Year 2003	1.503	32.08	0.734
Manufacturing sector Year 2004	1.099	31.8	0.815
Manufacturing sector Year 2005	0.270	30.86	0.763
Manufacturing sector Year 2006	-1.541	32.49	0.867
Manufacturing sector Year 2007	0.617	31.51	0.832
Manufacturing sector Year 2008	-0.281	31.97	0.802
Manufacturing sector Year 2009	0.320	30.78	0.716
Manufacturing sector Year 2010	-1.275	30.79	0.744
Manufacturing sector Year 2011	0.214	31.17	0.760
Manufacturing sector Year 2012	-0.220	31.66	0.912
Manufacturing sector Year 2013	1.928	32.24	0.818
Manufacturing sector Year 2014	0.502	31.71	0.780
Manufacturing sector Year 2015	1.038	31.97	0.785
Manufacturing sector Year 2016	0.803	31.98	0.792
Manufacturing sector Year 2017	-0.364	31.42	0.706
Manufacturing sector Year 2018	0.718	31.38	0.786
Manufacturing sector Year 2019	0.161	32.17	0.802
Manufacturing sector Year 2020	1.366	31.42	0.771
Manufacturing sector Year 2021	-0.406	32.82	0.855
Manufacturing sector Year 2022	-0.346	30.96	0.883
Mining sector Year 2003	0.002	31.77	0.880
Mining sector Year 2004	-1.112	31.43	0.887
Mining sector Year 2005	-0.461	31.11	0.912
Mining sector Year 2006	-0.205	31.13	0.847
Mining sector Year 2007	1.189	31.41	0.734
Mining sector Year 2008	0.242	30.04	0.649
Mining sector Year 2009	-0.576	31.08	0.720
Mining sector Year 2010	0.394	30.99	0.640
Mining sector Year 2011	0.734	32.52	0.895
Mining sector Year 2012	-0.135	32.13	0.864
Mining sector Year 2013	-1.184	31.29	0.737
Mining sector Year 2014	-0.537	32.21	0.849
Mining sector Year 2015	-0.080	31.2	0.736
Mining sector Year 2016	0.312	31.94	0.869
Mining sector Year 2017	-1.165	31.44	0.952

Mining sector Year 2018	-0.529	31.54	0.713
Mining sector Year 2019	0.119	31.48	0.871
Mining sector Year 2020	0.220	31.88	0.791
Mining sector Year 2021	-0.305	31.81	0.849
Mining sector Year 2022	-0.732	31.39	0.752
Motorization rate Year 2003	0.317	31.25	0.815
Motorization rate Year 2004	1.133	31.06	0.845
Motorization rate Year 2005	-0.904	32.09	0.732
Motorization rate Year 2006	-0.333	32.2	0.813
Motorization rate Year 2007	0.606	32.34	0.877
Motorization rate Year 2008	-0.475	32.89	0.822
Motorization rate Year 2009	-0.285	32.33	0.818
Motorization rate Year 2010	-0.701	30.97	0.747
Motorization rate Year 2011	0.414	30.55	0.824
Motorization rate Year 2012	-0.571	32.09	0.873
Motorization rate Year 2013	-0.815	32.07	0.721
Motorization rate Year 2014	-0.026	32.79	0.748
Motorization rate Year 2015	-0.002	31.31	0.824
Motorization rate Year 2016	0.099	31.76	0.768
Motorization rate Year 2017	0.916	31.72	0.811
Motorization rate Year 2018	0.000	31.66	0.866
Motorization rate Year 2019	0.506	32.1	0.831
Motorization rate Year 2020	0.484	32.49	0.798
Motorization rate Year 2021	-0.106	31.77	0.866
Motorization rate Year 2022	-0.583	31.14	0.776
Proportion of Air travelers Year 2003	0.031	32	0.882
Proportion of Air travelers Year 2004	0.537	31.07	0.837
Proportion of Air travelers Year 2005	1.672	31.16	0.797
Proportion of Air travelers Year 2006	-0.663	31.15	0.818
Proportion of Air travelers Year 2007	-1.092	31.75	0.845
Proportion of Air travelers Year 2008	-0.591	32.05	0.869
Proportion of Air travelers Year 2009	-0.692	31.72	0.810
Proportion of Air travelers Year 2010	0.368	32.24	0.761
Proportion of Air travelers Year 2011	0.248	31.64	0.743
Proportion of Air travelers Year 2012	-0.426	32.09	0.935
Proportion of Air travelers Year 2013	0.991	31.97	0.908
Proportion of Air travelers Year 2014	-0.820	31.3	0.846
Proportion of Air travelers Year 2015	1.133	31.71	0.818
Proportion of Air travelers Year 2016	-0.238	31.81	0.757
Proportion of Air travelers Year 2017	0.284	32.24	0.723
Proportion of Air travelers Year 2018	0.016	31.18	0.831
Proportion of Air travelers Year 2019	-0.391	30.56	0.787
Proportion of Air travelers Year 2020	0.774	31.04	0.748
Proportion of Air travelers Year 2021	-0.532	32.02	0.863
Proportion of Air travelers Year 2022	1.491	31.18	0.772
Proportion of Road travelers Year 2003	0.187	30.75	0.886
Proportion of Road travelers Year 2004	-0.375	32.01	0.767
Proportion of Road travelers Year 2005	0.753	31.4	0.803
Proportion of Road travelers Year 2006	-0.022	31.78	0.918

Proportion of Road travelers Year 2007	-1.675	32.01	0.889
Proportion of Road travelers Year 2008	-0.623	31.11	0.806
Proportion of Road travelers Year 2009	0.426	31	0.862
Proportion of Road travelers Year 2010	-0.843	31.79	0.806
Proportion of Road travelers Year 2011	-0.554	31.3	0.719
Proportion of Road travelers Year 2012	0.173	31.09	0.773
Proportion of Road travelers Year 2013	-0.111	31.88	0.760
Proportion of Road travelers Year 2014	0.544	32.26	0.858
Proportion of Road travelers Year 2015	0.337	31.73	0.804
Proportion of Road travelers Year 2016	-0.335	31.28	0.785
Proportion of Road travelers Year 2017	0.338	30.94	0.773
Proportion of Road travelers Year 2018	-0.034	32.08	0.814
Proportion of Road travelers Year 2019	-0.036	31.4	0.813
Proportion of Road travelers Year 2020	-0.813	32.11	0.866
Proportion of Road travelers Year 2021	-0.639	31.5	0.864
Proportion of Road travelers Year 2022	0.272	31.12	0.913
Proportion of Train passengers Year 2003	1.906	31.28	0.789
Proportion of Train passengers Year 2004	-1.964	31.43	0.768
Proportion of Train passengers Year 2005	0.313	31.44	0.757
Proportion of Train passengers Year 2006	0.581	31.68	0.709
Proportion of Train passengers Year 2007	-0.248	31.46	0.869
Proportion of Train passengers Year 2008	-0.393	31.49	0.887
Proportion of Train passengers Year 2009	-0.724	31.03	0.643
Proportion of Train passengers Year 2010	0.225	32.42	0.914
Proportion of Train passengers Year 2011	1.139	31.6	0.720
Proportion of Train passengers Year 2012	0.242	32.91	0.846
Proportion of Train passengers Year 2013	0.637	32.34	0.831
Proportion of Train passengers Year 2014	-0.432	31.24	0.671
Proportion of Train passengers Year 2015	-0.158	31.96	0.810
Proportion of Train passengers Year 2016	0.543	31.93	0.721
Proportion of Train passengers Year 2017	-1.602	32.21	0.809
Proportion of Train passengers Year 2018	0.352	31.31	0.825
Proportion of Train passengers Year 2019	-0.671	31.29	0.623
Proportion of Train passengers Year 2020	-0.308	31.63	0.762
Proportion of Train passengers Year 2021	0.470	31.95	0.774
Proportion of Train passengers Year 2022	0.968	31.04	0.893
Transport & Communication sector Year 2003	1.043	32.77	0.770
Transport & Communication sector Year 2004	-0.443	31.38	0.868
Transport & Communication sector Year 2005	0.575	31.53	0.915
Transport & Communication sector Year 2006	1.113	31.31	0.779
Transport & Communication sector Year 2007	-0.105	30.67	0.736
Transport & Communication sector Year 2008	-1.143	31.81	0.912
Transport & Communication sector Year 2009	-0.578	31.97	0.747
Transport & Communication sector Year 2010	-0.365	32.31	0.766
Transport & Communication sector Year 2011	-0.170	32.89	0.767
Transport & Communication sector Year 2012	0.305	32.45	0.823
Transport & Communication sector Year 2013	0.097	30.98	0.834
Transport & Communication sector Year 2014	0.219	31.7	0.801
Transport & Communication sector Year 2015	-0.462	30.63	0.841

Transport & Communication sector Year 2016	-0.352	32.55	0.814
Transport & Communication sector Year 2017	-0.322	32.45	0.800
Transport & Communication sector Year 2018	-0.888	32.31	0.732
Transport & Communication sector Year 2019	-0.259	30.92	0.800
Transport & Communication sector Year 2020	-1.555	32.16	0.808
Transport & Communication sector Year 2021	0.885	32.06	0.800
Transport & Communication sector Year 2022	0.289	31.72	0.803
Ancona Fixed effect	Estimated coefficient	Standard Error	MC Error
Livorno Fixed effect	0.300	31.65	0.939
Mantova Fixed effect	-0.255	31.97	0.785
Messina Fixed effect	0.968	31.93	0.797
Milan Fixed effect	-1.209	31.05	0.808
Naples Fixed effect	0.103	31.93	0.740
Novara Fixed effect	-0.130	32.13	0.742
Palermo Fixed effect	0.101	31.99	0.778
Pavia Fixed effect	1.448	31.96	0.794
Pisa Fixed effect	0.502	30.89	0.825
Ravenna Fixed effect	1.665	31.11	0.727
Bari Fixed effect	-1.201	30.81	0.804
Rome Fixed effect	0.767	31.94	0.787
Siena Fixed effect	-0.962	31.37	0.825
Siracusa Fixed effect	-1.444	31.76	0.709
Taranto Fixed effect	0.293	31.36	0.742
Turin Fixed effect	0.960	32.07	0.731
Venice Fixed effect	-0.721	31.57	0.763
Bologna Fixed effect	1.945	31.53	0.825
Cagliari Fixed effect	-0.719	31.06	0.902
Caltanissetta Fixed effect	-0.470	31.82	0.801
Catania Fixed effect	2.078	31.65	0.772
Cremona Fixed effect	0.594	32.08	0.917
Florence Fixed effect	-0.299	32.64	0.865
Genova Fixed effect	0.062	31.11	0.899
Agriculture sector Year 2003	-1.478	30.45	0.909
Agriculture sector Year 2004	1.880	32.63	0.830
Agriculture sector Year 2005	0.522	30.83	0.547
Agriculture sector Year 2006	-0.464	31.76	0.821
Agriculture sector Year 2007	0.804	30.38	0.744
Agriculture sector Year 2008	0.356	30.45	0.792
Agriculture sector Year 2009	0.700	32.23	0.835
Agriculture sector Year 2010	0.370	29.71	0.688
Agriculture sector Year 2011	0.603	30.66	0.851
Agriculture sector Year 2012	-0.936	31.91	0.809
Agriculture sector Year 2013	-0.553	31.43	0.934
Agriculture sector Year 2014	0.758	32.45	0.837
Agriculture sector Year 2015	-0.719	31.46	0.712
Agriculture sector Year 2016	0.505	31.66	0.734
Agriculture sector Year 2017	-0.280	30.21	0.724
Agriculture sector Year 2018	0.408	31.42	0.865

Agriculture sector Year 2019	-0.632	31.03	0.706
Agriculture sector Year 2020	0.784	31.58	0.756
Agriculture sector Year 2021	-1.125	31.88	0.881
Agriculture sector Year 2022	-0.004	32.5	0.942
Cars polluting potential Year 2003	-1.334	30.76	0.993
Cars polluting potential Year 2004	-0.457	31.64	0.824
Cars polluting potential Year 2005	0.255	31.42	0.792
Cars polluting potential Year 2006	-1.233	31.99	0.862
Cars polluting potential Year 2007	0.227	30.94	0.837
Cars polluting potential Year 2008	-0.485	31.54	0.720
Cars polluting potential Year 2009	-0.215	31.28	0.763
Cars polluting potential Year 2010	-0.512	30.29	0.793
Cars polluting potential Year 2011	-0.353	32.19	0.946
Cars polluting potential Year 2012	-0.475	30.75	0.813
Cars polluting potential Year 2013	-0.033	32.03	0.769
Cars polluting potential Year 2014	0.462	32.04	0.807
Cars polluting potential Year 2015	0.591	31.16	0.791
Cars polluting potential Year 2016	-0.453	31.57	0.755
Cars polluting potential Year 2017	-0.158	31.56	0.862
Cars polluting potential Year 2018	0.304	32	0.809
Cars polluting potential Year 2019	0.564	31.66	0.842
Cars polluting potential Year 2020	0.511	31.61	0.719
Cars polluting potential Year 2021	0.878	32.08	0.723
Cars polluting potential Year 2022	-0.419	31.42	0.916
Construction sector Year 2003	-1.280	31.27	0.756
Construction sector Year 2004	-0.593	31.56	0.844
Construction sector Year 2005	-1.332	32.36	0.934
Construction sector Year 2006	-0.542	31.49	0.893
Construction sector Year 2007	-0.356	31.26	0.849
Construction sector Year 2008	0.519	31.94	0.887
Construction sector Year 2009	-0.689	31.26	0.722
Construction sector Year 2010	1.396	31.68	0.727
Construction sector Year 2011	0.609	31.79	0.694
Construction sector Year 2012	-0.498	32.52	0.847
Construction sector Year 2013	1.291	31.61	0.840
Construction sector Year 2014	0.490	31.68	0.805
Construction sector Year 2015	0.717	32.12	0.707
Construction sector Year 2016	-0.148	31.86	0.805
Construction sector Year 2017	0.071	30.93	0.859
Construction sector Year 2018	-0.480	31.97	0.849
Construction sector Year 2019	-1.110	31.94	0.891
Construction sector Year 2020	0.326	32.2	0.762
Construction sector Year 2021	0.630	32.7	0.791
Construction sector Year 2022	1.581	31.86	0.936
Expenditure for round trip Italy-abroad Year 2003	-0.572	32.02	0.790
Expenditure for round trip Italy-abroad Year 2004	-1.564	32.34	0.909
Expenditure for round trip Italy-abroad Year 2005	0.739	31.64	0.868
Expenditure for round trip Italy-abroad Year 2006	-0.670	31.78	0.813
Expenditure for round trip Italy-abroad Year 2007	0.181	31.79	0.808

Expenditure for round trip Italy-abroad Year 2008	-0.335	31.76	0.868
Expenditure for round trip Italy-abroad Year 2009	-0.081	32.35	0.811
Expenditure for round trip Italy-abroad Year 2010	-0.159	31.47	0.789
Expenditure for round trip Italy-abroad Year 2011	1.062	31.65	0.884
Expenditure for round trip Italy-abroad Year 2012	0.981	31.28	0.799
Expenditure for round trip Italy-abroad Year 2013	-0.292	32.1	0.833
Expenditure for round trip Italy-abroad Year 2014	1.151	31.13	0.850
Expenditure for round trip Italy-abroad Year 2015	0.040	32.1	0.845
Expenditure for round trip Italy-abroad Year 2016	0.129	32.31	0.801
Expenditure for round trip Italy-abroad Year 2017	-0.163	30.79	0.737
Expenditure for round trip Italy-abroad Year 2018	-1.225	31.21	0.878
Expenditure for round trip Italy-abroad Year 2019	-0.296	31.49	0.838
Expenditure for round trip Italy-abroad Year 2020	-1.546	30.88	0.754
Expenditure for round trip Italy-abroad Year 2021	0.500	31.64	0.790
Expenditure for round trip Italy-abroad Year 2022	0.487	32.52	0.827
Expenditure for transport within destination Year 2003	-0.156	30.93	0.854
Expenditure for transport within destination Year 2004	-0.524	30.92	0.804
Expenditure for transport within destination Year 2005	1.497	31.48	0.851
Expenditure for transport within destination Year 2006	-1.272	32.25	0.776
Expenditure for transport within destination Year 2007	0.733	32.18	0.778
Expenditure for transport within destination Year 2008	0.599	32.31	0.868
Expenditure for transport within destination Year 2009	-1.191	31.29	0.860
Expenditure for transport within destination Year 2010	-0.366	30.42	0.721
Expenditure for transport within destination Year 2011	-0.673	30.99	0.829
Expenditure for transport within destination Year 2012	1.004	31.68	0.796
Expenditure for transport within destination Year 2013	0.154	31.48	0.707
Expenditure for transport within destination Year 2014	-0.029	32.23	0.830
Expenditure for transport within destination Year 2015	-0.256	32.61	0.997
Expenditure for transport within destination Year 2016	-0.537	30.97	0.766
Expenditure for transport within destination Year 2017	0.577	30.76	0.845
Expenditure for transport within destination Year 2018	-2.017	31.91	0.714
Expenditure for transport within destination Year 2019	0.585	31.02	0.730
Expenditure for transport within destination Year 2020	0.553	31.37	0.732
Expenditure for transport within destination Year 2021	-0.570	31.04	0.796
Expenditure for transport within destination Year 2022	0.071	31.65	0.776
Manufacturing sector Year 2003	-1.426	30.83	0.712
Manufacturing sector Year 2004	-0.038	31.83	0.815
Manufacturing sector Year 2005	-0.735	31.96	0.714
Manufacturing sector Year 2006	0.387	32.06	0.853
Manufacturing sector Year 2007	-0.647	31.87	0.756
Manufacturing sector Year 2008	1.141	31.47	0.923
Manufacturing sector Year 2009	0.913	31.38	0.794
Manufacturing sector Year 2010	-1.350	32.07	0.753
Manufacturing sector Year 2011	-2.118	32.22	0.851
Manufacturing sector Year 2012	-0.385	31.61	0.901
Manufacturing sector Year 2013	-0.983	31.43	0.771
Manufacturing sector Year 2014	-0.164	32.24	0.901
Manufacturing sector Year 2015	-0.966	31.14	0.805
Manufacturing sector Year 2016	0.862	31.97	0.720

Manufacturing sector Year 2017	0.139	32.74	0.822
Manufacturing sector Year 2018	1.316	31.37	0.794
Manufacturing sector Year 2019	0.913	32.67	0.856
Manufacturing sector Year 2020	-0.115	31.83	0.759
Manufacturing sector Year 2021	1.342	31.31	0.730
Manufacturing sector Year 2022	0.750	31.65	0.797
Mining sector Year 2003	-1.569	32.3	0.885
Mining sector Year 2004	0.807	31.73	0.747
Mining sector Year 2005	0.238	31.64	0.941
Mining sector Year 2006	-0.905	32.01	0.743
Mining sector Year 2007	0.075	31.02	0.720
Mining sector Year 2008	0.236	32.41	0.829
Mining sector Year 2009	-0.660	32.25	0.835
Mining sector Year 2010	0.083	31.84	0.815
Mining sector Year 2011	-0.675	30.52	0.875
Mining sector Year 2012	-0.296	32.87	0.968
Mining sector Year 2013	1.223	31.94	0.891
Mining sector Year 2014	0.677	32.8	0.870
Mining sector Year 2015	0.232	30.53	0.785
Mining sector Year 2016	-0.658	31.37	0.777
Mining sector Year 2017	0.633	31.47	0.811
Mining sector Year 2018	-0.042	32.1	0.831
Mining sector Year 2019	0.776	30.89	0.760
Mining sector Year 2020	-1.352	31.31	0.789
Mining sector Year 2021	0.697	31.12	0.708
Mining sector Year 2022	0.358	30.97	0.775
Motorization rate Year 2003	1.811	31.65	0.815
Motorization rate Year 2004	-1.574	31.69	0.861
Motorization rate Year 2005	0.988	31.37	0.814
Motorization rate Year 2006	-0.632	32.09	0.768
Motorization rate Year 2007	-0.027	30.85	0.778
Motorization rate Year 2008	1.380	32.15	0.854
Motorization rate Year 2009	0.775	31.53	0.826
Motorization rate Year 2010	-0.866	32.56	0.847
Motorization rate Year 2011	-1.521	31.51	0.797
Motorization rate Year 2012	-0.310	31.74	0.881
Motorization rate Year 2013	1.196	30.91	0.849
Motorization rate Year 2014	0.651	31.04	0.894
Motorization rate Year 2015	-0.090	30.55	0.809
Motorization rate Year 2016	1.182	31.86	1.026
Motorization rate Year 2017	-0.261	30.9	0.871
Motorization rate Year 2018	-0.290	32.79	0.929
Motorization rate Year 2019	-0.721	30.98	0.854
Motorization rate Year 2020	-0.865	31.25	0.944
Motorization rate Year 2021	-0.371	31.24	0.830
Motorization rate Year 2022	-0.431	32.2	0.734
Proportion of Air travelers Year 2003	1.153	31.36	0.779
Proportion of Air travelers Year 2004	1.040	30.63	0.912
Proportion of Air travelers Year 2005	0.886	31.91	0.753

Proportion of Air travelers Year 2006	-1.348	32.01	0.825
Proportion of Air travelers Year 2007	-0.205	32.22	0.999
Proportion of Air travelers Year 2008	-0.855	31.4	0.917
Proportion of Air travelers Year 2009	-0.377	30.54	0.924
Proportion of Air travelers Year 2010	-1.849	31.41	0.741
Proportion of Air travelers Year 2011	-0.053	31.18	0.626
Proportion of Air travelers Year 2012	-0.022	31.61	0.876
Proportion of Air travelers Year 2013	-0.640	31.71	0.732
Proportion of Air travelers Year 2014	-1.100	31.77	0.819
Proportion of Air travelers Year 2015	0.150	31.66	0.741
Proportion of Air travelers Year 2016	0.351	31.4	0.961
Proportion of Air travelers Year 2017	0.079	32.2	0.794
Proportion of Air travelers Year 2018	-1.634	31.77	0.790
Proportion of Air travelers Year 2019	-0.373	31.43	0.667
Proportion of Air travelers Year 2020	0.084	30.96	0.732
Proportion of Air travelers Year 2021	-2.597	31.15	0.853
Proportion of Air travelers Year 2022	2.039	31.38	1.011
Proportion of Road travelers Year 2003	0.480	31.83	0.830
Proportion of Road travelers Year 2004	-1.184	31.25	0.817
Proportion of Road travelers Year 2005	-0.407	30.89	0.800
Proportion of Road travelers Year 2006	0.383	31.95	0.913
Proportion of Road travelers Year 2007	-0.058	31.66	0.742
Proportion of Road travelers Year 2008	0.527	30.71	0.871
Proportion of Road travelers Year 2009	1.349	31.88	0.890
Proportion of Road travelers Year 2010	-0.178	32.11	0.713
Proportion of Road travelers Year 2011	1.021	31.12	0.816
Proportion of Road travelers Year 2012	0.501	31.32	0.784
Proportion of Road travelers Year 2013	0.344	32.48	0.887
Proportion of Road travelers Year 2014	-1.637	31.2	0.844
Proportion of Road travelers Year 2015	-0.945	31.57	0.665
Proportion of Road travelers Year 2016	0.240	30.78	0.841
Proportion of Road travelers Year 2017	-0.202	31.35	0.795
Proportion of Road travelers Year 2018	0.248	32.12	0.733
Proportion of Road travelers Year 2019	0.159	32.09	0.855
Proportion of Road travelers Year 2020	0.225	31.25	0.743
Proportion of Road travelers Year 2021	-0.170	31.82	0.812
Proportion of Road travelers Year 2022	-0.018	31.84	0.977
Proportion of Train passengers Year 2003	1.792	31.67	0.834
Proportion of Train passengers Year 2004	0.999	32.02	0.794
Proportion of Train passengers Year 2005	1.147	31.78	0.860
Proportion of Train passengers Year 2006	0.864	30.81	0.755
Proportion of Train passengers Year 2007	0.471	31.67	0.689
Proportion of Train passengers Year 2008	-1.594	31.3	0.793
Proportion of Train passengers Year 2009	-0.440	32.07	0.866
Proportion of Train passengers Year 2010	-0.350	32.41	0.858
Proportion of Train passengers Year 2011	0.091	30.77	0.756
Proportion of Train passengers Year 2012	-1.379	32.12	0.898
Proportion of Train passengers Year 2013	-0.831	31.14	0.872
Proportion of Train passengers Year 2014	1.256	31.08	0.870

Proportion of Train passengers Year 2015	-0.774	31.35	0.787
Proportion of Train passengers Year 2016	0.337	31.97	0.730
Proportion of Train passengers Year 2017	0.799	31.57	0.699
Proportion of Train passengers Year 2018	-0.663	31.71	0.845
Proportion of Train passengers Year 2019	-1.454	31.82	0.771
Proportion of Train passengers Year 2020	-0.236	32.4	0.891
Proportion of Train passengers Year 2021	0.167	31.59	0.818
Proportion of Train passengers Year 2022	-0.497	31.4	0.849
Transport & Communication sector Year 2003	1.496	31.56	0.860
Transport & Communication sector Year 2004	-0.719	31.03	0.756
Transport & Communication sector Year 2005	-0.341	32.46	0.875
Transport & Communication sector Year 2006	-0.378	31.82	0.747
Transport & Communication sector Year 2007	0.402	31.76	0.704
Transport & Communication sector Year 2008	0.146	31.83	0.691
Transport & Communication sector Year 2009	-0.313	31.31	0.872
Transport & Communication sector Year 2010	-0.630	31.76	0.773
Transport & Communication sector Year 2011	0.749	31.66	0.835
Transport & Communication sector Year 2012	-0.881	32.59	0.766
Transport & Communication sector Year 2013	-0.682	32.05	0.711
Transport & Communication sector Year 2014	1.098	31.79	0.820
Transport & Communication sector Year 2015	0.911	32.6	0.931
Transport & Communication sector Year 2016	0.176	31.58	0.803
Transport & Communication sector Year 2017	-0.424	32.28	0.760
Transport & Communication sector Year 2018	0.711	31.2	0.891
Transport & Communication sector Year 2019	0.537	32.15	0.882
Transport & Communication sector Year 2020	-0.863	31.54	0.877
Transport & Communication sector Year 2021	-0.005	31.46	0.786
Transport & Communication sector Year 2022	-0.795	31.07	0.695

Variance-covariance matrix elements	Estimate	Standard Error	MC Error
Var[Urban green,Urban green]	20050 *	17450	2164
Var[Urban forestation,Urban forestation]	22290 *	17270	2139
Var[PM10,PM10]	20120 *	17370	2153
Var[O3,O3]	20500 *	17720	2197
Var[Non-methane organic compounds,Non-methane organic compounds]	40730 ***	14070	1721
Var[NO2,NO2]	20410 *	17640	2186
Var[Methane,Methane]	259400 ***	20010	1461
Var[Energy consumption,Energy consumption]	22980 *	16430	2034
Var[CO2,CO2]	20470 *	17520	2171
Var[Benzene,Benzene]	20800 *	17790	2204
Cov[Urban green,Urban forestation]	352	1295	61
Cov[Urban green,PM10]	8649 *	7113	871
Cov[Urban green,O3]	-15490 *	12750	1577
Cov[Urban green,Non-methane organic compounds]	-3457	8268	1013
Cov[Urban green,NO2]	248	1192	41
Cov[Urban green,Methane]	-1647	3833	284
Cov[Urban green,Energy consumption]	-109	1311	67
Cov[Urban green,CO2]	357	1315	60

Cov[Urban green,Benzene]	234	7767	956
Cov[Urban forestation,Urban green]	352	1295	61
Cov[Urban forestation,PM10]	299	1305	66
Cov[Urban forestation,O3]	-52	1201	36
Cov[Urban forestation,Non-methane organic compounds]	-1581	2294	213
Cov[Urban forestation,NO2]	8312 *	7056	862
Cov[Urban forestation,Methane]	-2657	9059	1042
Cov[Urban forestation,Energy consumption]	-15190 *	13510	1670
Cov[Urban forestation,CO2]	-163	7667	943
Cov[Urban forestation,Benzene]	210	1531	107
Cov[PM10,Urban green]	8649 *	7113	871
Cov[PM10,Urban forestation]	299	1305	66
Cov[PM10,O3]	-15290 *	12550	1552
Cov[PM10,Non-methane organic compounds]	-17990 *	14370	1773
Cov[PM10,NO2]	543	1267	69
Cov[PM10,Methane]	-3791	4026	312
Cov[PM10,Energy consumption]	-449	1276	67
Cov[PM10,CO2]	404	1268	53
Cov[PM10,Benzene]	8944 *	7317	895
Cov[O3,Urban green]	-15490 *	12750	1577
Cov[O3,Urban forestation]	-52	1201	36
Cov[O3,PM10]	-15290 *	12550	1552
Cov[O3,Non-methane organic compounds]	5287	6255	755
Cov[O3,NO2]	804	1339	81
Cov[O3,Methane]	-4892 *	3945	297
Cov[O3,Energy consumption]	-840	1244	54
Cov[O3,CO2]	914	1439	93
Cov[O3,Benzene]	-1221	8388	1034
Cov[Non-methane organic compounds,Urban green]	-3457	8268	1013
Cov[Non-methane organic compounds,Urban forestation]	-1581	2294	213
Cov[Non-methane organic compounds,PM10]	-17990 *	14370	1773
Cov[Non-methane organic compounds,O3]	5287	6255	755
Cov[Non-methane organic compounds,NO2]	-2510 *	2151	192
Cov[Non-methane organic compounds,Methane]	15890 ***	6307	528
Cov[Non-methane organic compounds,Energy consumption]	2723	2649	267
Cov[Non-methane organic compounds,CO2]	-2239 *	1928	149
Cov[Non-methane organic compounds,Benzene]	-19140 *	14270	1761
Cov[NO2,Urban green]	248	1192	41
Cov[NO2,Urban forestation]	8312 *	7056	862
Cov[NO2,PM10]	543	1267	69
Cov[NO2,O3]	804	1339	81
Cov[NO2,Non-methane organic compounds]	-2510 *	2151	192
Cov[NO2,Methane]	-20160 *	15390	1863
Cov[NO2,Energy consumption]	-16720 *	13330	1647
Cov[NO2,CO2]	9011 *	7329	896
Cov[NO2,Benzene]	870	1433	95
Cov[Methane,Urban green]	-1647	3833	284
Cov[Methane,Urban forestation]	-2657	9059	1042
Cov[Methane,PM10]	-3791	4026	312

Cov[Methane,O3]	-4892 *	3945	297
Cov[Methane,Non-methane organic compounds]	15890 ***	6307	528
Cov[Methane,NO2]	-20160 *	15390	1863
Cov[Methane,Energy consumption]	18690 ***	5864	578
Cov[Methane,CO2]	-20800 *	15130	1832
Cov[Methane,Benzene]	-6221 *	3969	289
Cov[Energy consumption,Urban green]	-109	1311	67
Cov[Energy consumption,Urban forestation]	-15190 *	13510	1670
Cov[Energy consumption,PM10]	-449	1276	67
Cov[Energy consumption,O3]	-840	1244	54
Cov[Energy consumption,Non-methane organic compounds]	2723	2649	267
Cov[Energy consumption,NO2]	-16720 *	13330	1647
Cov[Energy consumption,Methane]	18690 ***	5864	578
Cov[Energy consumption,CO2]	-3281	8417	1037
Cov[Energy consumption,Benzene]	-1308	1355	60
Cov[CO2,Urban green]	357	1315	60
Cov[CO2,Urban forestation]	-163	7667	943
Cov[CO2,PM10]	404	1268	53
Cov[CO2,O3]	914	1439	93
Cov[CO2,Non-methane organic compounds]	-2239 *	1928	149
Cov[CO2,NO2]	9011 *	7329	896
Cov[CO2,Methane]	-20800 *	15130	1832
Cov[CO2,Energy consumption]	-3281	8417	1037
Cov[CO2,Benzene]	942	1373	81
Cov[Benzene,Urban green]	234	7767	956
Cov[Benzene,Urban forestation]	210	1531	107
Cov[Benzene,PM10]	8944 *	7317	895
Cov[Benzene,O3]	-1221	8388	1034
Cov[Benzene,Non-methane organic compounds]	-19140 *	14270	1761
Cov[Benzene,NO2]	870	1433	95
Cov[Benzene,Methane]	-6221 *	3969	289
Cov[Benzene,Energy consumption]	-1308	1355	60
Cov[Benzene,CO2]	942	1373	81

***: P-Value<=1%; **: 1%<P-Value<=5%; *: 5%<P-value<10%.