

Appendix A: GDP per Capita in Euros at Current Market Prices, EU Member States

NUTS 0	2015	2016	2017	2018	2019
BE	37,000	38,000	39,100	40,300	41,400
BG	6,400	6,800	7,400	8,000	8,800
CZ	16,100	16,800	18,300	19,800	21,000
DK	48,000	49,400	51,100	52,200	53,800
DE	37,000	38,100	39,400	40,500	41,500
EE	15,800	16,700	18,100	19,700	21,200
IE	56,000	57,000	62,600	67,300	72,300
EL	16,300	16,200	16,500	16,700	17,100
ES	23,200	24,000	25,000	25,800	26,400
FR	33,000	33,400	34,300	35,100	36,000
HR	10,600	11,200	11,900	12,700	13,300
IT	27,300	28,000	28,700	29,300	29,700
CY	21,100	22,200	23,400	24,600	25,300
LV	12,400	12,900	13,900	15,100	15,900
LT	12,900	13,600	14,900	16,200	17,500
LU	91,400	93,900	95,200	98,600	102,200
HU	11,400	11,800	13,000	13,900	14,900
MT	22,400	23,200	24,900	25,800	26,700
NL	40,700	41,600	43,100	44,900	46,700
AT	39,900	40,900	42,000	43,600	44,800
PL	11,200	11,100	12,200	13,000	13,900
PT	17,400	18,100	19,000	20,000	20,700
RO	8,100	8,600	9,600	10,500	11,500
SI	18,800	19,600	20,800	22,100	23,200
SK	14,700	14,900	15,500	16,400	17,200
FI	38,600	39,600	41,100	42,300	43,600
SE	46,500	47,000	47,700	46,300	46,200

Source: own elaboration, data from Eurostat

Appendix B: GDP per Capita in Euros at Current Market Prices, EU NUTS 2 Regions

NUTS 2	2015	2016	2017	2018	2019
BE10	66,200	66,700	68,500	69,200	71,100
BE21	43,600	44,900	46,100	47,800	49,300
BE22	29,900	30,900	32,000	32,800	33,600
BE23	33,800	34,800	36,100	37,000	37,800
BE24	39,800	41,300	42,400	43,800	44,900
BE25	35,600	36,900	38,000	39,100	40,300
BE31	41,100	43,400	45,400	49,300	51,800
BE32	23,400	23,900	24,600	25,500	26,000
BE33	26,200	26,900	27,800	28,600	29,400
BE34	23,000	23,300	24,000	24,800	25,500
BE35	25,200	25,800	26,500	27,300	27,900
BG31	3,900	4,100	4,600	5,200	5,400
BG32	4,400	4,700	5,000	5,400	5,900
BG33	5,200	5,500	5,900	6,400	6,800
BG34	5,300	6,000	6,500	6,500	6,600
BG41	10,400	11,000	11,900	12,900	14,800
BG42	4,500	4,800	5,200	5,600	6,200
CZ01	35,700	37,300	40,300	44,300	46,400
CZ02	14,400	15,300	16,700	17,600	18,900
CZ03	13,800	14,300	15,700	16,800	17,700
CZ04	11,600	11,800	12,800	13,500	14,600
CZ05	12,900	13,600	15,100	16,200	17,100
CZ06	14,600	15,000	16,400	17,800	18,900
CZ07	12,900	13,500	14,900	15,900	17,000
CZ08	13,100	13,800	14,800	16,200	16,800
DK01	62,500	63,500	66,200	67,600	68,900
DK02	33,500	33,700	35,000	35,600	36,900
DK03	43,500	44,600	45,500	46,300	47,900
DK04	42,000	45,300	46,700	47,400	49,600
DK05	40,400	41,600	43,300	43,800	45,000
DE11	49,200	49,400	51,700	53,100	54,000
DE12	41,400	41,900	43,600	44,700	45,700
DE13	35,800	36,400	37,600	38,800	39,600
DE14	39,900	41,400	42,600	43,900	44,600
DE21	53,800	55,500	57,800	58,400	59,700
DE22	36,400	37,500	38,900	39,000	39,800
DE23	38,800	39,800	41,800	42,500	43,400
DE24	34,700	35,900	37,500	38,300	39,300
DE25	41,000	42,300	44,000	45,400	46,400
DE26	37,300	38,700	40,100	40,900	42,000
DE27	36,700	37,800	38,800	39,900	40,700
DE30	35,700	37,500	38,900	40,500	42,300
DE40	26,500	27,100	28,200	28,900	29,700
DE50	45,700	46,500	47,600	48,400	49,500
DE60	60,900	61,500	63,700	65,200	67,300
DE71	48,100	49,500	50,600	51,700	53,000
DE72	31,300	32,300	33,500	34,500	35,500
DE73	33,900	35,200	35,900	36,600	37,600
DE80	25,000	25,500	27,300	27,800	29,000
DE91	39,800	46,400	46,500	49,200	50,200
DE92	35,100	36,600	37,400	38,500	39,700
DE93	25,800	26,200	27,100	27,900	28,900
DE94	32,300	33,400	34,700	35,300	36,500

DEA1	38,400	38,900	40,400	41,500	42,500
DEA2	39,700	40,200	41,600	43,100	44,100
DEA3	30,500	31,300	32,500	33,300	34,100
DEA4	34,900	35,900	36,900	38,200	39,000
DEA5	32,100	32,700	33,800	35,000	35,700
DEB1	30,800	31,300	32,700	33,700	34,100
DEB2	28,400	29,300	29,900	30,600	31,000
DEB3	35,800	36,400	36,900	37,600	37,700
DEC0	34,300	34,500	35,500	36,100	36,800
DED2	28,500	29,100	30,200	31,200	32,200
DED4	25,800	26,700	27,800	28,500	29,500
DED5	30,000	30,800	31,900	32,600	33,500
DEE0	25,600	26,400	27,300	28,000	28,900
DEF0	29,800	30,500	32,000	32,900	33,900
DEG0	26,600	27,400	28,400	29,000	29,900
EE00	15,800	16,700	18,100	19,700	21,200
IE04	27,200	25,800	26,000	27,100	29,200
IE05	71,700	67,000	76,400	85,500	90,000
IE06	55,700	61,500	66,400	69,500	75,800
EL30	22,000	21,900	22,500	22,900	23,500
EL41	12,600	12,100	11,700	11,400	11,200
EL42	18,200	17,400	17,500	18,100	18,500
EL43	14,000	13,600	14,000	14,300	14,600
EL51	11,200	11,300	11,300	11,400	11,600
EL52	12,600	12,600	12,800	13,100	13,400
EL53	17,100	15,800	15,900	15,300	14,200
EL54	11,600	11,600	11,600	11,800	12,000
EL61	12,300	12,100	12,300	12,600	13,000
EL62	14,900	14,700	14,900	15,600	16,300
EL63	12,000	11,700	11,900	12,100	12,400
EL64	14,400	14,600	15,000	15,000	15,400
EL65	13,700	13,700	14,000	13,900	14,400
ES11	20,800	21,500	22,300	23,100	23,900
ES12	20,500	20,900	21,900	22,700	23,300
ES13	21,100	21,900	22,800	23,600	24,400
ES21	30,000	31,000	32,100	33,200	34,100
ES22	28,500	29,400	30,500	31,000	32,100
ES23	25,500	25,600	26,600	27,500	28,200
ES24	24,900	26,000	27,100	28,000	28,700
ES30	31,900	32,800	34,100	35,100	35,900
ES41	21,600	22,400	23,100	24,300	24,900
ES42	18,100	18,800	19,600	20,500	21,000
ES43	16,500	17,100	18,200	18,800	19,500
ES51	27,600	28,700	29,700	30,500	31,100
ES52	20,300	20,900	21,900	22,600	23,200
ES53	25,000	26,100	27,100	27,900	28,200
ES61	17,200	17,700	18,500	19,100	19,600
ES62	19,500	20,000	20,700	21,100	21,600
ES63	18,900	19,300	19,500	20,300	20,900
ES64	17,300	17,800	17,900	18,700	19,200
ES70	19,100	19,600	20,400	20,900	21,200
FR10	55,500	56,400	57,800	59,100	60,400
FRB0	27,400	27,500	28,100	28,800	29,200
FRC1	27,400	27,100	28,100	29,100	29,300
FRC2	25,000	25,500	26,000	26,200	26,100
FRD1	26,300	26,500	26,400	27,200	27,400
FRD2	28,600	28,800	29,100	29,600	29,600

FRE1	26,700	27,100	27,700	28,600	29,000
FRE2	25,100	24,700	25,500	25,800	25,900
FRF1	30,400	30,900	31,700	32,600	33,200
FRF2	27,900	27,600	28,500	29,600	29,600
FRF3	24,700	24,600	25,200	25,600	25,500
FRG0	29,200	29,600	30,200	30,900	32,200
FRH0	27,700	28,100	29,000	29,500	30,300
FRI1	28,900	29,400	29,900	30,800	32,100
FRI2	24,800	24,600	26,000	25,800	25,000
FRI3	26,600	26,700	27,400	28,300	29,000
FRJ1	24,800	25,000	25,600	26,000	27,100
FRJ2	30,100	30,600	31,200	32,400	34,100
FRK1	26,300	26,400	27,000	27,500	29,400
FRK2	32,800	33,400	34,300	35,300	36,800
FRL0	30,800	31,200	32,100	32,800	33,600
FRM0	26,200	26,200	26,700	27,600	29,200
FRY1	21,200	21,800	22,800	23,600	23,000
FRY2	22,900	23,100	23,400	24,000	23,700
FRY3	15,100	15,300	14,600	14,800	16,400
FRY4	20,600	21,100	21,800	22,300	22,900
FRY5	8,800	9,000	9,300	9,200	10,900
HR03	10,300	10,900	11,800	12,400	13,100
HR04	10,700	11,300	12,000	12,800	13,500
ITC1	28,700	29,600	30,700	31,400	31,700
ITC2	36,400	36,300	37,800	38,300	38,700
ITC3	29,900	30,700	31,500	31,700	32,200
ITC4	36,200	37,300	38,200	39,100	39,500
ITH1	43,500	44,200	45,500	47,100	48,000
ITH2	35,900	36,500	37,200	38,600	38,700
ITH3	30,600	31,700	32,600	33,200	33,600
ITH4	29,500	30,000	30,700	31,600	32,000
ITH5	33,400	34,400	35,400	36,200	36,700
ITI1	29,300	30,000	30,700	31,400	31,900
ITI2	24,200	24,400	25,100	26,000	26,400
ITI3	25,800	26,400	27,100	27,600	27,800
ITI4	31,500	32,800	33,300	33,800	34,200
ITF1	24,000	24,100	24,900	25,100	25,300
ITF2	19,600	19,900	20,400	21,000	21,300
ITF3	17,700	18,000	18,500	18,700	18,900
ITF4	17,700	18,100	18,400	18,900	19,300
ITF5	21,500	21,500	21,900	23,100	23,400
ITF6	16,300	16,600	17,000	17,000	17,400
ITG1	16,900	17,100	17,500	17,700	17,900
ITG2	20,300	20,200	20,700	21,100	21,600
CY00	21,100	22,200	23,400	24,600	25,300
LV00	12,400	12,900	13,900	15,100	15,900
LT01	18,700	19,700	21,400	23,400	25,400
LT02	10,600	11,200	12,400	13,300	14,200
LU00	91,400	93,900	95,200	98,600	102,200
HU11	22,900	23,800	26,400	28,200	30,900
HU12	9,600	9,600	10,200	11,000	11,900
HU21	10,700	11,300	12,100	13,000	13,800
HU22	12,400	12,900	13,600	14,100	14,500
HU23	7,600	7,900	8,800	9,600	10,300
HU31	7,600	7,900	8,900	9,600	10,000
HU32	7,300	7,500	8,300	8,900	9,700
HU33	8,300	8,500	9,300	10,200	10,900

MT00	22,400	23,200	24,900	25,700	26,600
NL11	42,700	40,200	41,200	42,100	42,200
NL12	28,200	28,500	29,500	30,900	31,900
NL13	28,300	28,400	29,300	30,800	31,800
NL21	33,200	34,500	35,800	37,700	39,300
NL22	33,900	34,800	36,300	37,800	39,300
NL23	30,100	31,100	32,300	33,400	35,100
NL31	49,800	50,400	52,900	55,300	57,800
NL32	52,900	54,600	56,500	59,400	62,000
NL33	41,000	41,700	42,500	43,900	45,800
NL34	32,400	33,200	33,900	36,000	37,600
NL41	40,700	41,800	43,800	45,600	47,300
NL42	34,900	36,700	38,100	39,600	41,000
AT11	27,800	28,600	30,000	30,700	31,600
AT12	32,800	33,500	34,800	35,900	36,700
AT13	48,100	49,600	49,600	51,300	52,700
AT21	33,500	34,000	35,500	37,400	38,300
AT22	35,700	36,900	38,300	39,400	40,800
AT31	40,600	41,600	42,800	44,800	46,000
AT32	47,300	48,900	50,200	51,900	53,600
AT33	42,600	43,600	44,700	46,500	48,100
AT34	44,700	44,100	46,000	49,200	48,400
PL21	10,100	10,100	11,100	11,900	12,700
PL22	11,600	11,500	12,600	13,500	14,200
PL41	12,100	12,100	13,300	14,000	15,000
PL42	9,500	9,300	10,100	10,800	11,500
PL43	9,400	9,300	10,100	10,700	11,300
PL51	12,500	12,300	13,400	14,200	15,200
PL52	9,000	8,900	9,600	10,300	10,900
PL61	9,100	9,100	9,800	10,500	11,000
PL62	8,000	7,900	8,500	8,900	9,500
PL63	10,800	10,800	11,800	12,600	13,500
PL71	10,500	10,400	11,300	12,100	13,100
PL72	8,100	8,000	8,700	9,400	9,900
PL81	7,700	7,700	8,400	8,800	9,500
PL82	8,000	7,900	8,500	9,200	9,700
PL84	8,000	7,900	8,800	9,300	10,000
PL91	24,400	24,100	26,600	28,400	30,500
PL92	9,600	9,500	10,400	11,000	12,000
PT11	14,600	15,300	16,100	17,000	17,700
PT15	17,800	19,300	20,900	22,200	23,200
PT16	15,000	15,700	16,500	17,300	18,000
PT17	23,100	23,800	24,900	25,900	26,900
PT18	16,400	16,800	18,000	18,500	19,000
PT20	15,500	16,200	16,800	17,600	18,400
PT30	16,700	17,500	18,800	19,400	20,000
RO11	7,100	7,800	8,900	9,600	10,500
RO12	7,500	8,200	9,100	10,000	10,900
RO21	4,900	5,300	6,000	6,600	7,200
RO22	6,900	7,200	7,900	8,700	9,600
RO31	6,400	6,900	7,400	8,200	8,900
RO32	19,400	20,200	22,200	23,900	26,400
RO41	5,900	6,200	7,100	8,100	8,900
RO42	8,400	9,200	9,900	10,800	11,700
SI03	15,600	16,200	17,200	18,200	19,100
SI04	22,400	23,400	24,900	26,500	27,600
SK01	36,200	36,600	37,500	39,100	39,700

SK02	13,400	13,600	14,100	14,800	15,800
SK03	11,800	11,900	12,300	13,100	14,100
SK04	10,300	10,400	11,100	11,800	12,200
FI19	34,400	35,000	36,200	37,400	38,400
FI1B	51,200	52,100	53,700	55,100	56,500
FI1C	33,800	34,800	36,600	37,600	38,900
FI1D	31,400	32,800	34,200	35,300	36,200
FI20	47,900	47,000	47,500	44,000	45,500
SE11	65,700	65,700	65,300	63,600	64,700
SE12	39,400	40,100	41,100	39,900	38,900
SE21	39,300	40,300	41,200	39,700	38,900
SE22	39,900	40,100	41,300	39,600	39,400
SE23	45,200	46,000	47,000	44,900	44,600
SE31	36,600	37,500	38,000	37,300	36,600
SE32	39,400	39,700	40,600	39,600	39,500

Source: own elaboration, data from Eurostat

Appendix C: Division of NUTS 2 Regions Into Quadrants of the Correlation Diagram

Quadrant 1	BE31, CZ01, DK04, DE30, DE80, DE91, IE05, IE06, ES24, HU11, MT00, NL21, NL22, NL23, NL31, NL32, NL34, NL41, NL42, PL91, PT17, SI04, FI1C, FI1D
Quadrant 2	BG31, BG32, BG33, BG34, BG41, BG42, CZ02, CZ03, CZ04, CZ05, CZ06, CZ07, CZ08, EE00, ES11, ES13, ES41, ES42, ES43, FRY5, HR03, HR04, CY00, LV00, LT01, LT02, HU12, HU21, HU22, HU23, HU31, HU32, HU33, PL21, PL22, PL41, PL42, PL43, PL51, PL52, PL61, PL62, PL63, PL71, PL72, PL81, PL82, PL84, PL92, PT11, PT15, PT16, PT18, PT20, PT30, RO11, RO12, RO21, RO22, RO31, RO32, RO41, RO42, SI03, SK02, SK03, SK04
Quadrant 3	EL30, EL41, EL42, EL43, EL51, EL52, EL53, EL54, EL61, EL62, EL63, EL64, EL65, ES12, ES52, ES61, ES62, ES63, ES64, ES70, FRY1, FRY3, FRY4, ITF2, ITF3, ITF4, ITF5, ITF6, ITG1, ITG2
Quadrant 4	BE10, BE21, BE22, BE23, BE24, BE25, BE32, BE33, BE34, BE35, DK01, DK02, DK03, DK05, DE11, DE12, DE13, DE14, DE21, DE22, DE23, DE24, DE25, DE26, DE27, DE40, DE50, DE60, DE71, DE72, DE73, DE92, DE93, DE94, DEA1, DEA2, DEA3, DEA4, DEA5, DEB1, DEB2, DEB3, DEC0, DED2, DED4, DED5, DEE0, DEF0, DEG0, IE04, ES21, ES22, ES23, ES30, ES51, ES53, FR10, FRB0, FRC1, FRC2, FRD1, FRD2, FRE1, FRE2, FRF1, FRF2, FRF3, FRG0, FRH0, FRI1, FRI2, FRI3, FRJ1, FRJ2, FRK1, FRK2, FRL0, FRM0, FRY2, ITC1, ITC2, ITC3, ITC4, ITH1, ITH2, ITH3, ITH4, ITH5, ITI1, ITI2, ITI3, ITI4, ITF1, LU00, NL11, NL12, NL13, NL33, AT11, AT12, AT13, AT21, AT22, AT31, AT32, AT33, AT34, SK01, FI19, FI1B, FI20, SE11, SE12, SE21, SE22, SE23, SE31, SE32, SE33

Source: own elaboration

Appendix D: Values of Individual Indicators for NUTS 2 Regions, Average 2015-2019

X1...GDP per capita in Euros at current market prices

X2...unemployment (in %)

X3...net disposable income of households per capita in Euros

X4...population aged 25-64 with tertiary education (ISCED 5-8) (in %)

X5... gross domestic expenditure on research and development (GERD) (in %)

X6...employment in technology and knowledge-intensive sectors (in %)

X7...share of population with tertiary education on employment (in %)

NUTS 2	X1	X2	X3	X4	X5	X6	X7
BE10	68,340	15.0	18,800	45.7	2.05	6.4	55.4
BE21	46,340	5.2	21,280	38.1	3.27	5.5	43.1
BE22	31,840	4.5	20,520	34.6	1.48	3.0	40.2
BE23	35,900	3.5	22,260	40.8	2.64	4.4	45.2
BE24	42,440	4.4	23,940	48.1	4.14	6.5	52.1
BE25	37,980	3.2	21,860	36.0	1.22	2.7	40.1
BE31	46,200	7.2	22,520	55.5	7.15	7.8	59.0
BE32	24,680	11.0	17,740	30.3	1.45	3.7	39.7
BE33	27,780	9.9	18,360	35.3	2.12	3.2	43.0
BE34	24,120	6.9	19,260	37.7	0.45	2.8	42.7
BE35	26,540	8.7	18,920	37.5	1.07	5.1	44.5
BG31	4,640	11.2	3,200	20.2	0.48	2.0	26.6
BG32	5,080	7.7	3,600	24.6	0.40	2.1	28.7
BG33	5,960	8.6	3,520	25.3	0.46	1.7	29.0
BG34	6,180	6.9	3,620	21.7	0.32	1.3	25.0
BG41	12,200	4.1	6,220	39.5	1.22	7.8	42.0
BG42	5,260	5.8	3,580	22.1	0.49	2.1	25.3
CZ01	40,800	1.9	12,440	44.3	2.45	9.5	44.3
CZ02	16,580	2.4	9,740	22.3	2.31	4.6	22.9
CZ03	15,660	2.4	8,780	19.6	1.46	3.8	20.2
CZ04	12,860	4.5	7,980	14.2	0.34	2.1	15.3
CZ05	14,980	3.1	8,640	19.6	1.36	4.4	20.2
CZ06	16,540	3.2	8,900	25.4	2.48	5.1	26.0
CZ07	14,840	3.4	8,280	19.7	1.42	4.0	20.4
CZ08	14,940	5.4	8,140	20.3	1.11	3.7	22.0
DK01	65,740	5.9	23,640	50.2	4.70	9.1	46.8
DK02	34,940	5.6	22,200	30.1	1.24	5.0	29.1
DK03	45,560	5.6	21,520	31.7	1.61	2.4	30.3
DK04	46,200	5.2	21,820	36.9	2.46	4.0	34.0
DK05	42,820	5.9	21,600	31.0	1.78	2.8	29.6
DE11	51,480	2.9	24,520	33.0	6.99	4.5	32.4
DE12	43,460	3.1	22,900	31.8	4.91	5.7	31.2
DE13	37,640	2.6	23,620	29.2	2.76	5.6	28.3
DE14	42,480	2.3	23,660	31.0	4.86	5.2	30.2
DE21	57,040	2.3	26,840	39.2	4.26	7.0	38.1
DE22	38,320	2.1	22,380	21.9	1.40	2.6	21.4
DE23	41,260	2.4	22,140	25.0	2.40	5.2	25.0
DE24	37,140	3.0	22,160	24.5	2.17	2.7	24.1
DE25	43,820	2.3	23,160	29.9	3.67	5.3	29.8
DE26	39,800	2.4	22,700	27.6	2.58	3.1	27.3
DE27	38,780	2.6	23,300	26.1	1.62	3.4	25.3
DE30	38,980	7.1	19,540	40.3	3.43	7.2	42.7
DE40	28,080	4.5	19,480	27.8	1.72	2.9	29.0

DE50	47,540	4.9	20,180	27.9	2.87	3.5	28.7
DE60	63,720	4.1	23,960	36.2	2.19	5.5	37.1
DE71	50,580	3.6	23,620	33.7	3.30	5.9	34.3
DE72	33,420	3.7	21,140	28.0	2.46	4.2	28.2
DE73	35,840	3.1	20,880	24.8	1.75	2.6	25.0
DE80	26,920	5.6	18,500	25.9	1.82	2.0	27.2
DE91	46,420	4.2	21,060	27.2	8.34	3.4	28.2
DE92	37,460	4.3	20,800	26.6	2.35	3.3	27.3
DE93	27,180	3.1	21,540	23.2	0.92	2.2	23.5
DE94	34,440	3.3	20,360	21.1	0.96	1.6	21.4
DEA1	40,340	4.6	21,120	26.0	1.92	3.4	27.7
DEA2	41,740	3.9	21,400	30.1	2.94	5.0	31.4
DEA3	32,340	3.9	20,500	24.5	1.24	2.5	25.2
DEA4	36,980	3.8	21,660	23.1	1.95	3.2	23.4
DEA5	33,860	4.7	20,860	22.6	1.76	2.8	24.0
DEB1	32,520	3.0	21,780	24.3	0.77	2.7	24.4
DEB3	36,880	3.8	21,880	28.2	3.82	4.4	28.8
DEC0	35,440	4.5	19,820	23.0	1.72	2.8	24.5
DED2	30,240	4.6	19,240	31.5	4.19	4.8	32.5
DED4	27,660	4.2	19,360	24.8	1.85	2.4	25.9
DED5	31,760	5.7	18,960	32.3	2.05	4.4	33.3
DEE0	27,240	6.4	18,580	22.6	1.48	2.3	24.3
DEF0	31,820	3.6	21,840	24.2	1.58	3.1	24.2
DEG0	28,260	4.6	18,740	27.3	2.20	3.5	28.5
EE00	18,300	5.8	9,340	39.9	1.41	5.2	39.4
IE04	27,060	7.1	16,520	40.9	1.20 (a)	5.0	41.4
IE05	78,120	7.6	19,060	41.9	1.20 (a)	7.8	43.0
IE06	65,780	6.9	21,800	50.5	1.20 (a)	9.7	52.5
EL30	22,560	21.3	11,280	38.6	1.45	2.6 (a)	45.5
EL41	11,800	19.8	9,240	24.8	0.71	2.6 (a)	28.1
EL42	17,940	15.8	11,920	20.0	0.20	2.6 (a)	23.3
EL43	14,100	17.9	9,180	26.3	1.49	2.6 (a)	28.2
EL51	11,360	19.6	8,620	24.2	0.74	2.6 (a)	27.5
EL52	12,900	22.7	9,400	30.9	1.07	2.6 (a)	35.9
EL53	15,660	28.6	9,940	24.3	0.42	2.6 (a)	28.3
EL54	11,720	22.1	9,360	29.9	1.38	2.6 (a)	34.5
EL61	12,460	22.1	8,940	28.8	0.78	2.6 (a)	32.8
EL62	15,280	16.6	11,740	21.6	0.37	2.6 (a)	24.7
EL63	12,020	26.6	8,400	22.4	1.35	2.6 (a)	25.9
EL64	14,880	21.6	8,660	22.0	0.54	2.6 (a)	25.1
EL65	13,940	16.9	9,040	22.6	0.49	2.6 (a)	25.1
ES11	22,320	15.5	13,720	36.4	0.92	2.8	42.5
ES12	21,860	15.6	15,020	41.7	0.78	3.1	49.5
ES13	22,760	13.4	14,640	40.0	0.84	2.8	45.8
ES21	32,080	11.6	18,900	49.3	1.96	3.7	55.9
ES22	30,300	10.9	17,420	45.0	1.70	2.4	50.3
ES23	26,680	12.3	15,180	38.3	0.84	1.5	42.0
ES24	26,940	12.7	15,600	37.2	0.91	2.8	41.8
ES30	33,960	13.8	18,460	47.4	1.69	8.4	52.1
ES41	23,260	14.4	14,540	35.8	1.20	2.0	40.6
ES42	19,600	21.0	12,280	28.2	0.56	2.4	33.7
ES43	18,020	25.6	11,400	26.3	0.62	1.3	33.4
ES51	29,520	14.0	16,720	39.7	1.50	4.7	45.3
ES52	21,780	18.3	13,060	34.3	1.03	2.2	38.9
ES53	26,860	13.4	14,940	29.8	0.36	1.6	33.2
ES61	18,420	26.0	11,540	29.7	0.94	2.2	36.7
ES62	20,580	18.8	11,960	29.8	0.93	1.5	35.1

FR10	57,840	8.8	22,920	48.5	2.21 (a)	7.4	52.2
FRB0	28,200	9.1	19,600	30.4	2.21 (a)	3.6	34.5
FRC1	28,200	9.1	19,360	29.2	2.21 (a)	2.3	33.2
FRC2	25,760	7.9	19,560	29.6	2.21 (a)	5.0	33.5
FRD1	26,760	8.2	19,120	26.5	2.21 (a)	2.6	29.5
FRD2	29,140	10.5	19,200	27.6	2.21 (a)	2.9	33.2
FRE1	27,820	12.7	16,920	30.2	2.21 (a)	2.2	38.4
FRE2	25,400	10.1	18,620	25.4	2.21 (a)	2.3	30.5
FRF1	31,760	8.9	19,520	33.3	2.21 (a)	4.2	38.1
FRF2	28,640	10.4	18,440	25.4	2.21 (a)	1.4	30.8
FRF3	25,120	10.6	18,880	30.6	2.21 (a)	2.0	36.5
FRG0	30,420	8.1	18,860	33.5	2.21 (a)	3.5	37.5
FRH0	28,920	7.5	18,820	35.2	2.21 (a)	3.3	38.3
FRI1	30,220	9.6	19,080	34.3	2.21 (a)	3.3	37.8
FRI2	25,240	7.3	19,180	31.6	2.21 (a)	1.9	35.3
FRI3	27,600	8.9	19,080	29.1	2.21 (a)	1.7	33.0
FRJ1	25,700	11.9	17,660	32.5	2.21 (a)	2.6	38.1
FRJ2	31,680	7.7	19,020	41.2	2.21 (a)	4.9	45.3
FRK1	27,320	7.5	19,920	29.7	2.21 (a)	2.9	33.5
FRK2	34,520	7.8	20,080	39.5	2.21 (a)	4.7	43.2
FRL0	32,100	10.0	19,560	36.8	2.21 (a)	3.8	41.3
FRM0	27,180	8.3	17,880	29.7	2.21 (a)	1.6	33.9
HR03	11,700	11.5	7,060	25.0	0.43	2.0	29.4
HR04	12,060	10.9	6,880	23.5	1.16	4.6	28.2
ITC1	30,420	8.9	19,840	18.1	2.18	3.6	20.5
ITC3	31,200	9.6	19,680	20.6	1.46	3.6	23.7
ITC4	38,060	6.7	21,460	20.3	1.29	4.9	23.0
ITH1	45,660	3.3	23,620	16.9	0.72	1.9	17.0
ITH2	37,380	5.9	19,640	20.2	1.57	3.3	22.0
ITH3	32,340	6.5	19,020	17.6	1.30	2.7	19.5
ITH4	30,760	7.0	19,760	19.3	1.62	3.1	21.3
ITH5	35,220	6.6	21,240	21.4	1.97	3.3	23.2
ITI1	30,660	8.3	18,920	20.5	1.46	3.2	22.7
ITI2	25,220	9.7	17,660	20.9	1.00	2.5	23.5
ITI3	26,940	9.6	17,820	20.1	1.03	2.6	22.1
ITI4	33,120	11.0	18,460	24.6	1.69	6.6	28.8
ITF1	24,680	11.7	15,340	18.4	0.98	3.1	20.6
ITF2	20,440	13.4	13,800	19.0	1.18	1.9	22.7
ITF3	18,360	20.3	12,620	15.4	1.26	2.2	21.7
ITF4	18,480	17.8	13,480	14.1	0.83	1.4	19.1
ITF5	22,280	12.6	13,340	16.1	0.63	1.9	19.1
ITF6	16,860	22.1	12,400	15.4	0.58	1.2	20.6
ITG1	17,420	21.3	12,860	13.6	0.84	1.9	19.7
ITG2	20,780	16.4	14,360	15.9	0.82	1.7	20.4
CY00	23,320	10.9	14,320	42.7	0.58	3.0	45.9
LV00	14,040	8.4	7,720	33.7	0.57	3.4	37.1
LT01	21,720	5.4	10,460	53.4	1.33	5.4	56.1
LT02	12,340	8.2	8,280	35.4	0.67	1.4	39.8
LU00	96,260	5.9	32,900	42.9	1.24	4.0	42.9
HU11	26,440	3.6	9,900	44.5	2.38	9.6	46.8
HU12	10,460	3.2	6,580	26.7	0.81	6.9	27.9
HU21	12,180	2.8	6,800	20.0	1.02	3.8	21.1
HU22	13,500	2.5	6,660	20.5	0.64	4.0	21.4
HU23	8,840	6.2	5,940	18.4	0.56	2.9	21.0
HU31	8,800	6.0	5,460	17.4	0.52	5.0	19.7
HU32	8,340	8.1	5,600	17.9	0.95	3.4	20.0
HU33	9,440	4.9	6,120	20.2	1.20	2.0	22.1

MT00	24,560	4.3	12,040	24.8	0.59	5.8	29.2
NL11	41,680	7.0	18,480	36.0	2.16 (a)	3.9	36.5
NL12	29,800	5.7	18,760	29.3	2.16 (a)	1.7	28.5
NL13	29,720	5.2	19,020	30.2	2.16 (a)	2.4	29.5
NL21	36,100	5.0	18,620	33.1	2.16 (a)	3.1	32.2
NL22	36,420	4.6	19,340	34.9	2.16 (a)	3.6	34.0
NL23	32,400	5.9	19,020	31.1	2.16 (a)	4.1	30.1
NL31	53,240	4.4	21,100	49.3	2.16 (a)	5.6	47.4
NL32	57,080	4.6	21,120	44.6	2.16 (a)	4.8	43.4
NL33	42,980	5.8	19,700	38.0	2.16 (a)	4.2	38.0
NL34	34,620	3.5	19,320	27.6	2.16 (a)	1.9	26.1
NL41	43,840	4.5	19,820	35.2	2.16 (a)	3.8	34.5
NL42	38,060	4.7	18,980	31.1	2.16 (a)	2.6	31.1
AT11	29,740	4.8	23,400	28.7	0.90	3.1	32.5
AT12	34,740	4.6	23,820	31.4	1.80	4.2	34.3
AT13	50,260	10.3	21,560	41.3	3.62	6.6	45.3
AT21	35,740	4.8	22,260	29.8	3.09	4.1	32.8
AT22	38,220	4.3	22,540	28.1	5.05	3.8	31.1
AT31	43,160	3.7	23,060	29.3	3.37	3.1	30.7
AT32	50,380	3.0	23,360	31.6	1.60	2.9	32.9
AT33	45,100	2.9	22,480	28.7	2.94	3.6	29.8
AT34	46,480	3.4	23,940	27.7	1.78	2.4	29.0
PL21	11,180	4.5	6,780	32.0	1.97	3.6	36.7
PL22	12,680	4.5	7,900	28.3	0.68	2.5	34.3
PL41	13,300	3.7	7,340	26.3	0.71	2.1	29.9
PL42	10,240	5.2	6,920	27.0	0.44	1.9	32.2
PL43	10,160	4.0	6,380	23.8	0.35	2.2	28.2
PL51	13,520	4.8	7,420	30.4	0.96	4.6	35.8
PL52	9,740	4.4	6,380	25.5	0.46	1.8	29.6
PL61	9,900	5.8	6,400	23.8	0.54	2.4	28.4
PL62	8,560	6.9	6,180	23.3	0.50	1.3	29.0
PL63	11,900	4.5	6,940	31.7	1.28	4.1	36.0
PL71	11,480	5.2	7,240	28.0	0.82	3.1	31.8
PL72	8,820	7.2	6,200	27.9	0.43	1.0	31.5
PL81	8,420	7.3	6,140	28.1	0.98	1.7	32.6
PL82	8,660	8.2	5,660	27.8	1.10	1.7	32.2
PL84	8,800	4.9	5,920	30.6	0.64	1.4	34.5
PL91	26,800	3.3	9,800	55.0	2.33	9.1	58.5
PL92	10,500	6.6	6,960	23.2	0.40	1.6	26.4
PT11	16,140	10.0	10,420	20.9	1.45	2.4	23.1
PT16	16,500	7.2	11,160	23.4	1.30	1.9	24.8
PT17	24,920	9.8	13,800	33.1	1.60	5.4	35.8
PT18	17,740	9.7	11,360	19.2	0.61	2.0	21.1
RO11	8,780	3.7	5,460	17.7	0.26	2.6	20.4
RO12	9,140	5.3	5,480	17.9	0.30	2.6	23.2
RO21	6,000	2.8	4,120	11.9	0.27	1.2	11.7
RO22	8,060	7.1	4,720	13.1	0.08	1.0	16.3
RO31	7,560	7.2	4,520	13.0	0.35	1.1	15.3
RO32	22,420	4.1	10,640	36.5	1.08	8.7	42.8
RO41	7,240	7.9	4,460	15.9	0.18	1.0	18.3
RO42	10,000	4.3	6,240	15.9	0.42	5.7	20.4
SI03	17,260	7.3	11,180	27.5	1.52	4.5	31.1
SI04	24,960	6.0	11,660	36.8	2.39	7.0	39.6
SK01	37,820	4.1	14,340	41.7	1.51	9.6	42.6
SK02	14,340	6.2	8,340	20.2	0.68	3.7	21.1
SK03	12,640	9.3	8,360	20.9	0.72	3.4	22.2
SK04	11,160	11.9	7,580	21.3	0.56	3.3	23.8

FI19	36,280	8.5	19,840	41.9	2.60	4.0	41.4
FI1B	53,720	7.3	23,400	52.0	3.48	9.6	51.1
FI1C	36,340	8.3	20,460	40.2	1.82	3.7	40.5
FI1D	33,980	9.2	19,460	38.6	2.54	3.9	39.4
SE11	65,000	6.3	24,880	51.1	3.59	8.6	49.9
SE12	39,880	7.5	20,860	39.2	3.80	4.4	38.7
SE21	39,880	5.9	20,660	34.9	1.50	2.1	33.8
SE22	40,060	8.8	21,280	43.8	3.35	4.8	43.7
SE23	45,540	6.2	21,960	40.9	4.57	4.3	39.7
SE31	37,200	7.2	20,420	32.8	1.26	2.7	33.1
SE32	39,760	6.5	20,520	34.5	0.74	3.4	34.4
SE33	43,560	6.1	20,720	38.5	2.50	3.0	37.0

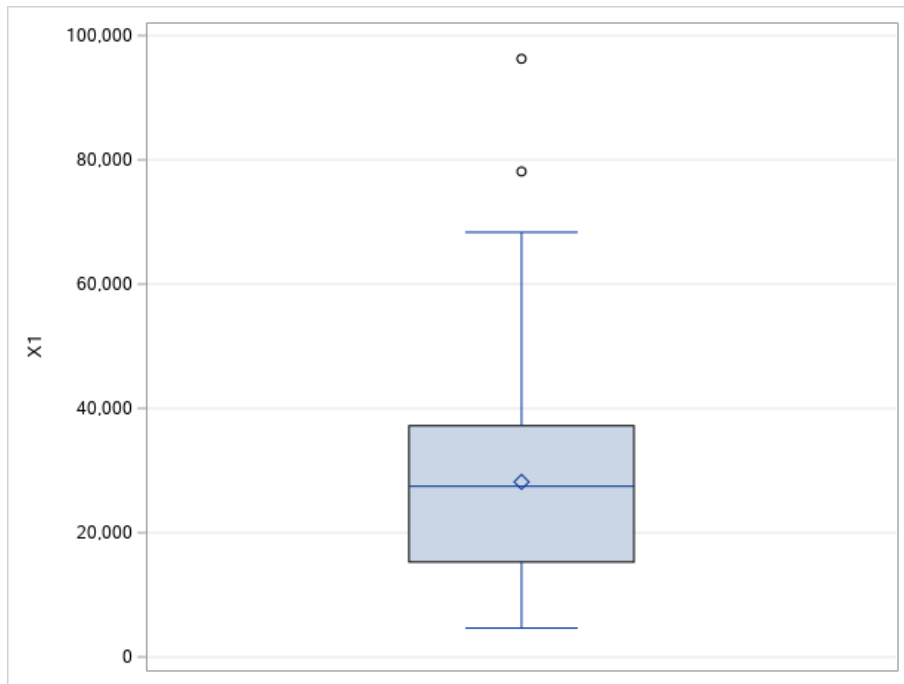
Source: own elaboration in MS Excel, data from Eurostat

Special value:

(a) value approximated by national value

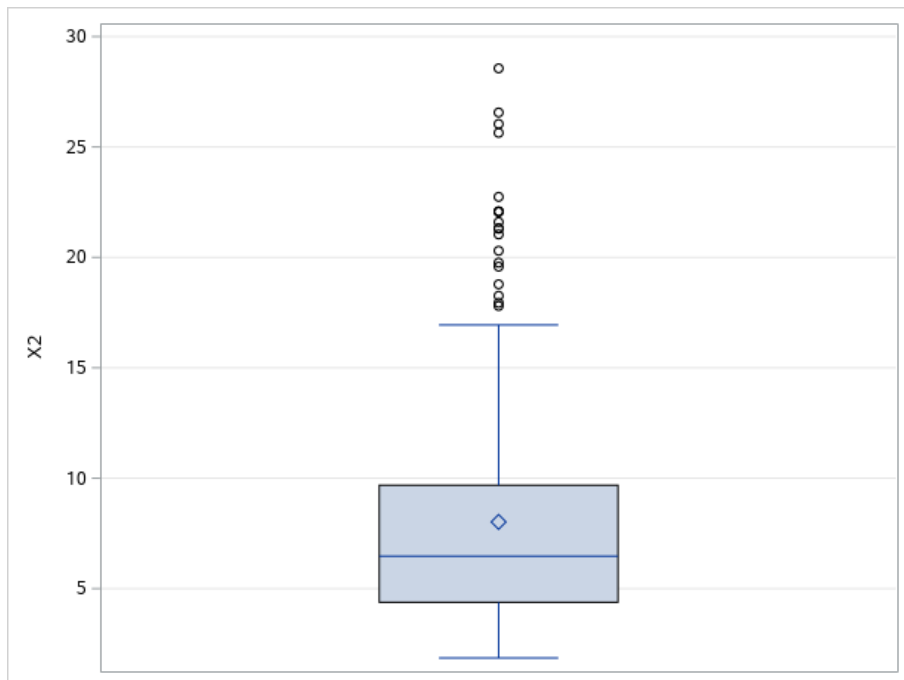
Appendix E: Boxplots of Summary Statistics

GDP per Capita, Average 2015-2019, 226 Regions



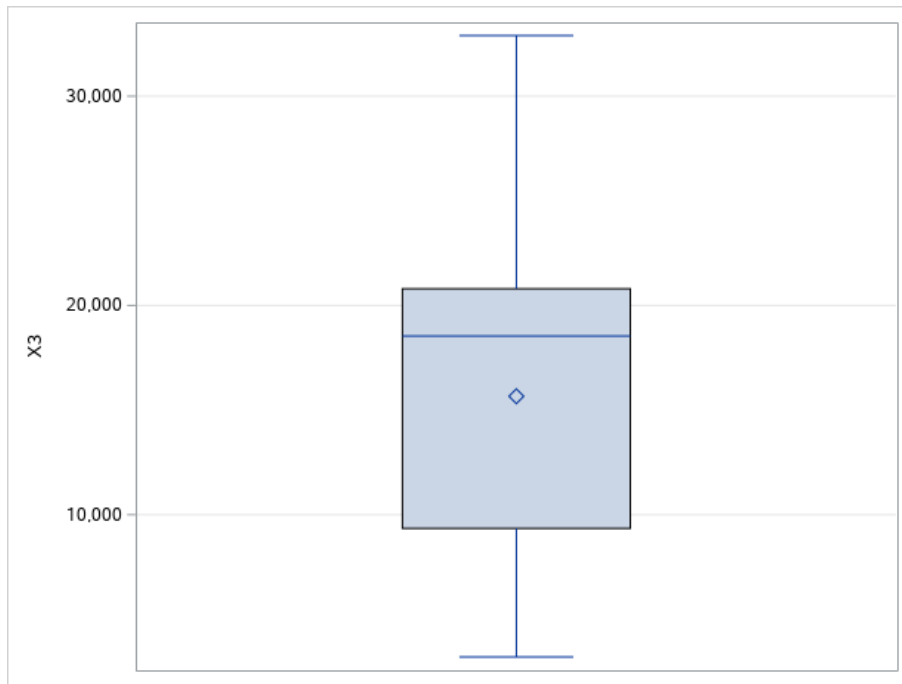
Source: own elaboration in SAS Studio

Unemployment (%), Average 2015-2019, 226 Regions



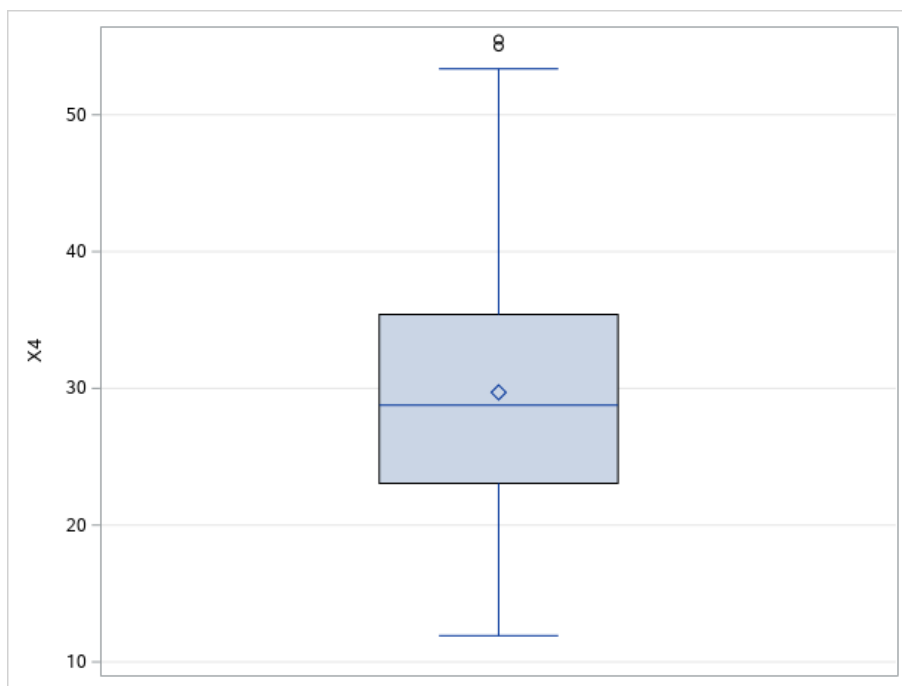
Source: own elaboration in SAS Studio

Net Disposable Income of Households per Capita, Average 2015-2019, 226 Regions



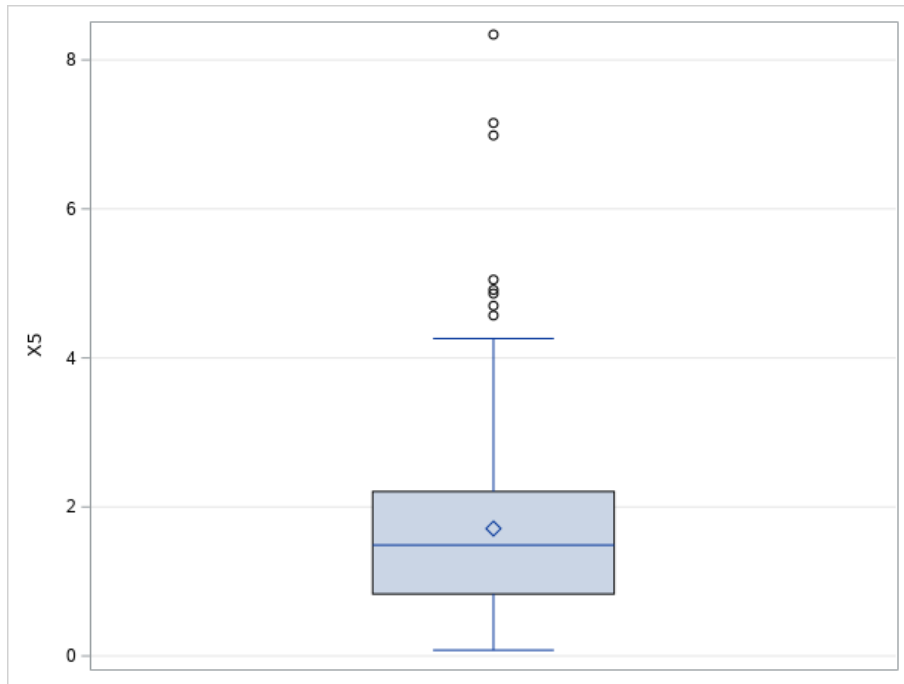
Source: own elaboration in SAS Studio

Population With Tertiary Education (%), Average 2015-2019, 226 Regions



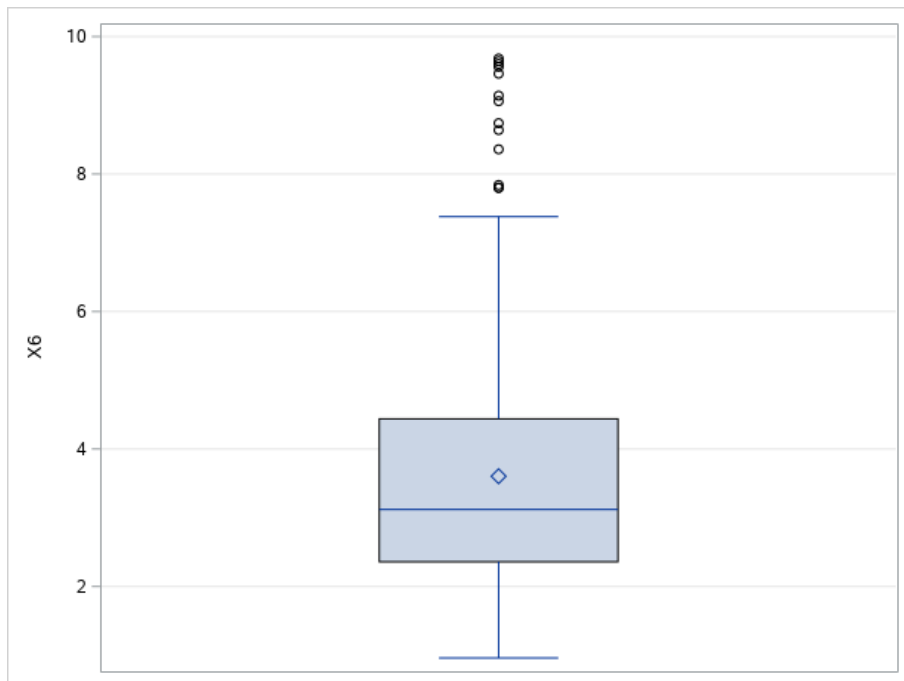
Source: own elaboration in SAS Studio

GERD (%), Average 2015-2019, 226 Regions



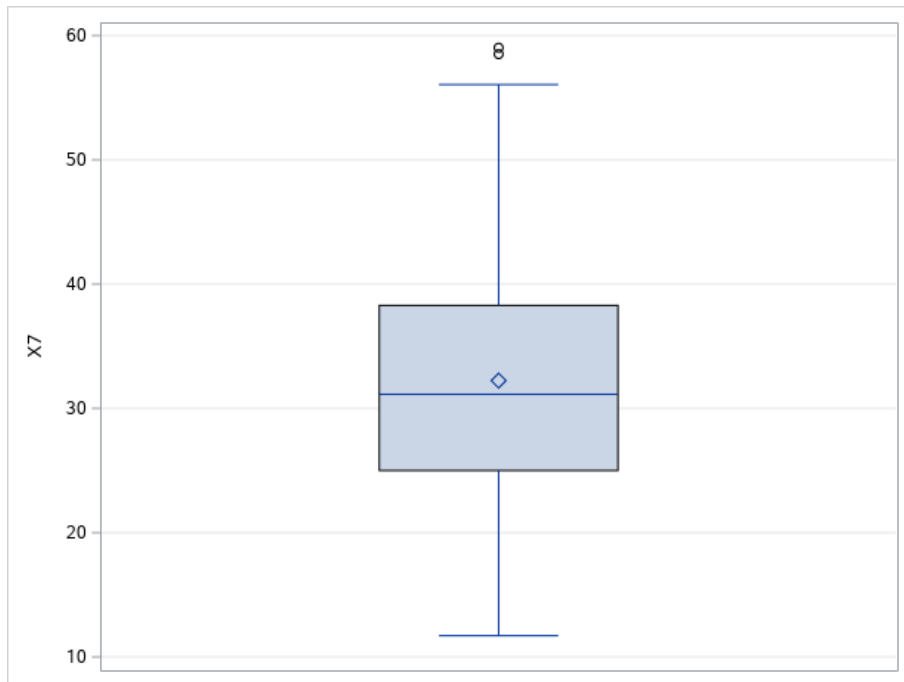
Source: own elaboration in SAS Studio

Employment in Technology and Knowledge-Intensive Sectors (%),
Average 2015-2019, 226 Regions



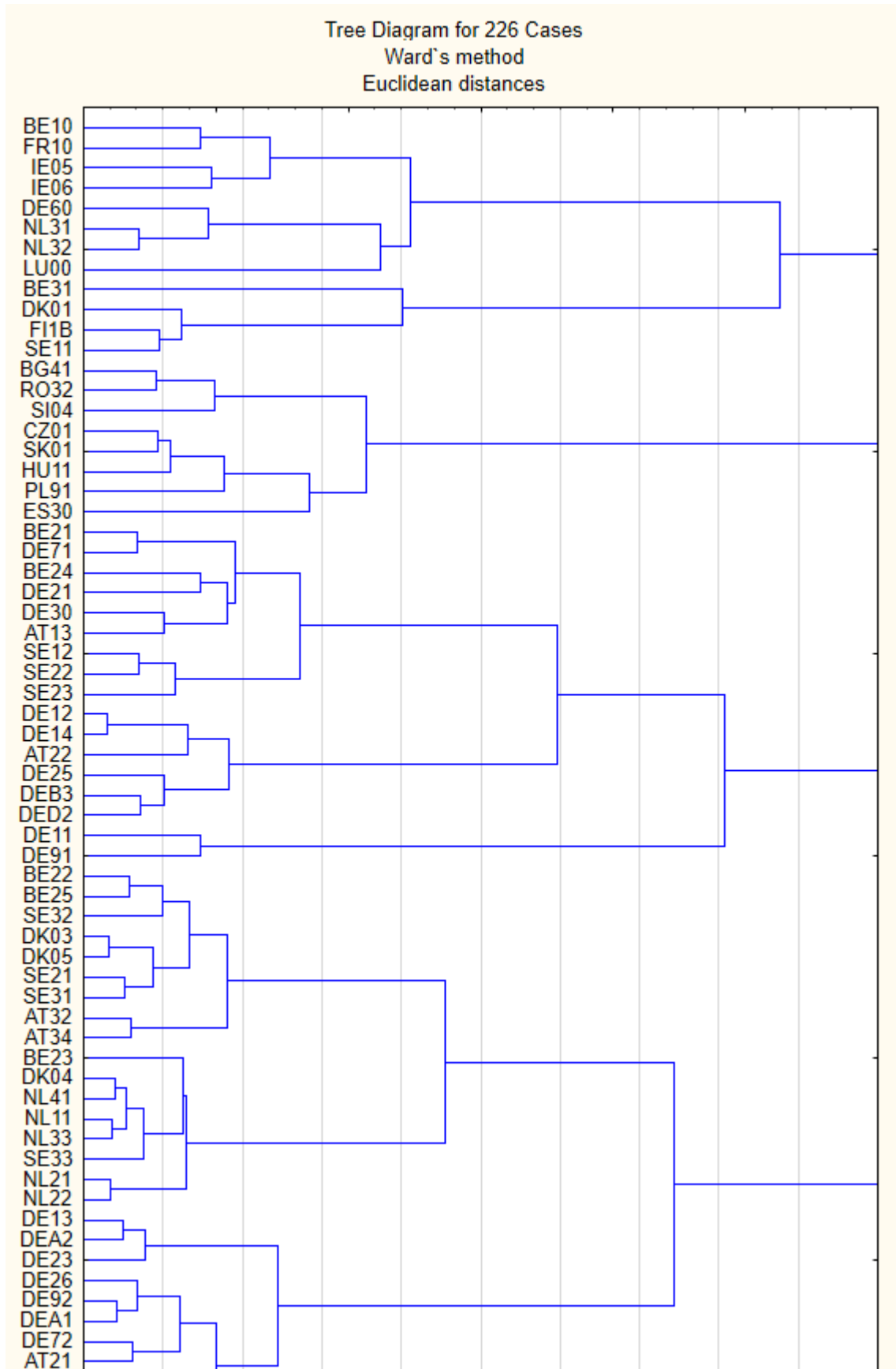
Source: own elaboration in SAS Studio

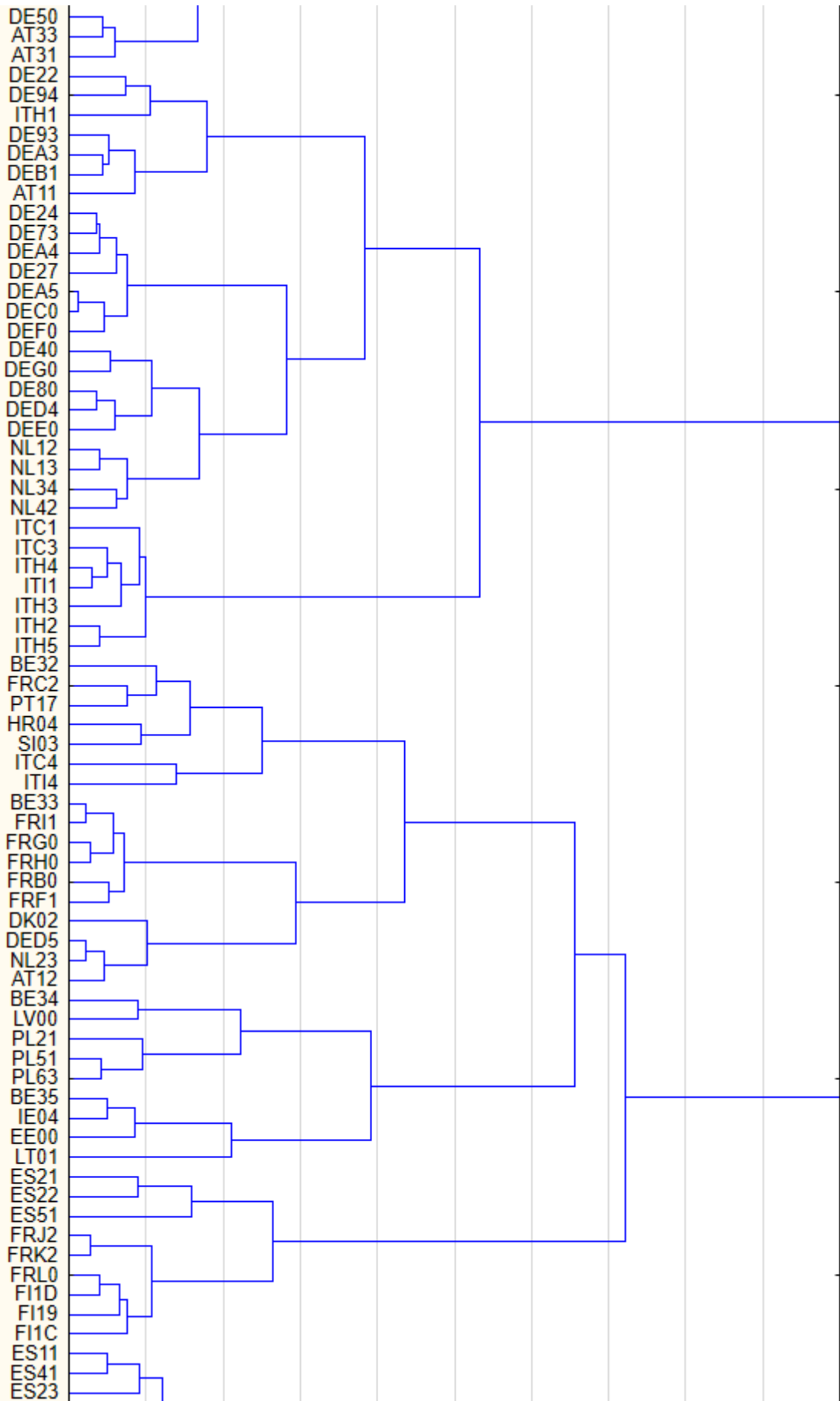
Share of Population With Tertiary Education on Employment (%),
Average 2015-2019, 226 Regions

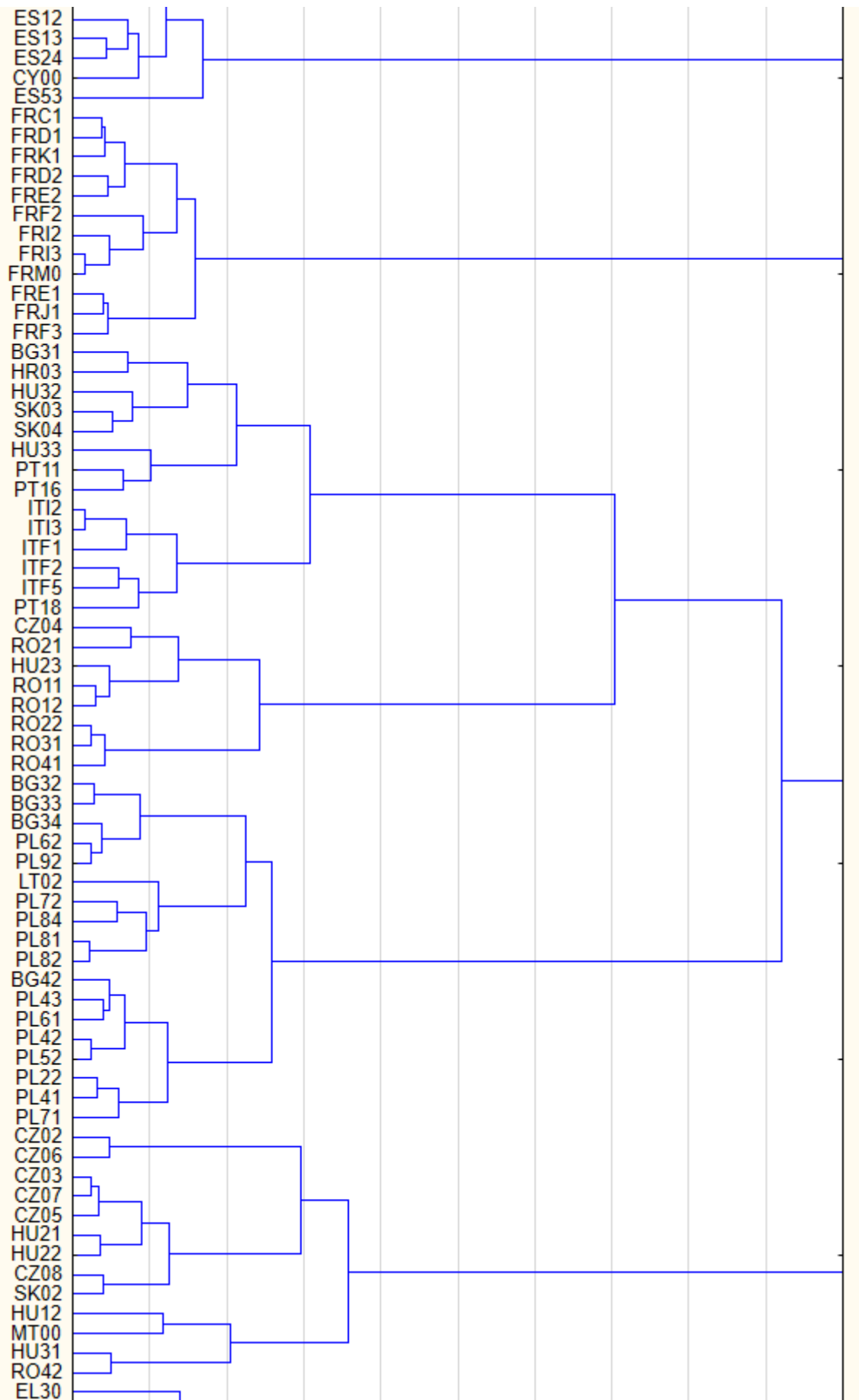


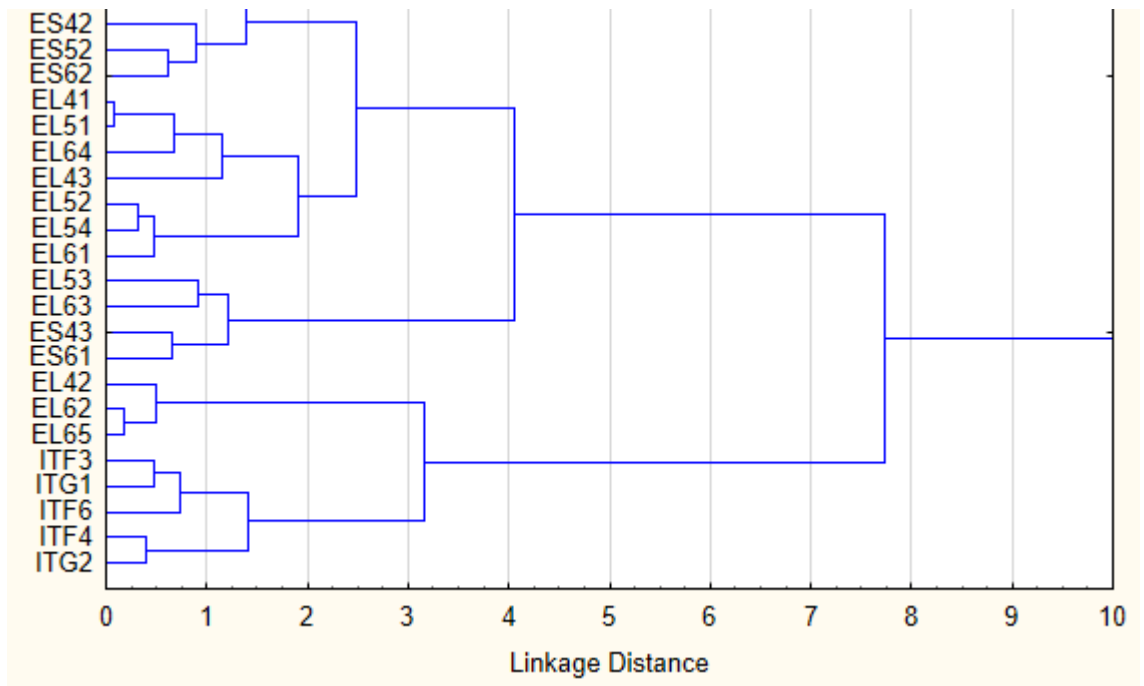
Source: own elaboration in SAS Studio

Appendix F: Tree Diagram









Source: own elaboration in Statistica 14

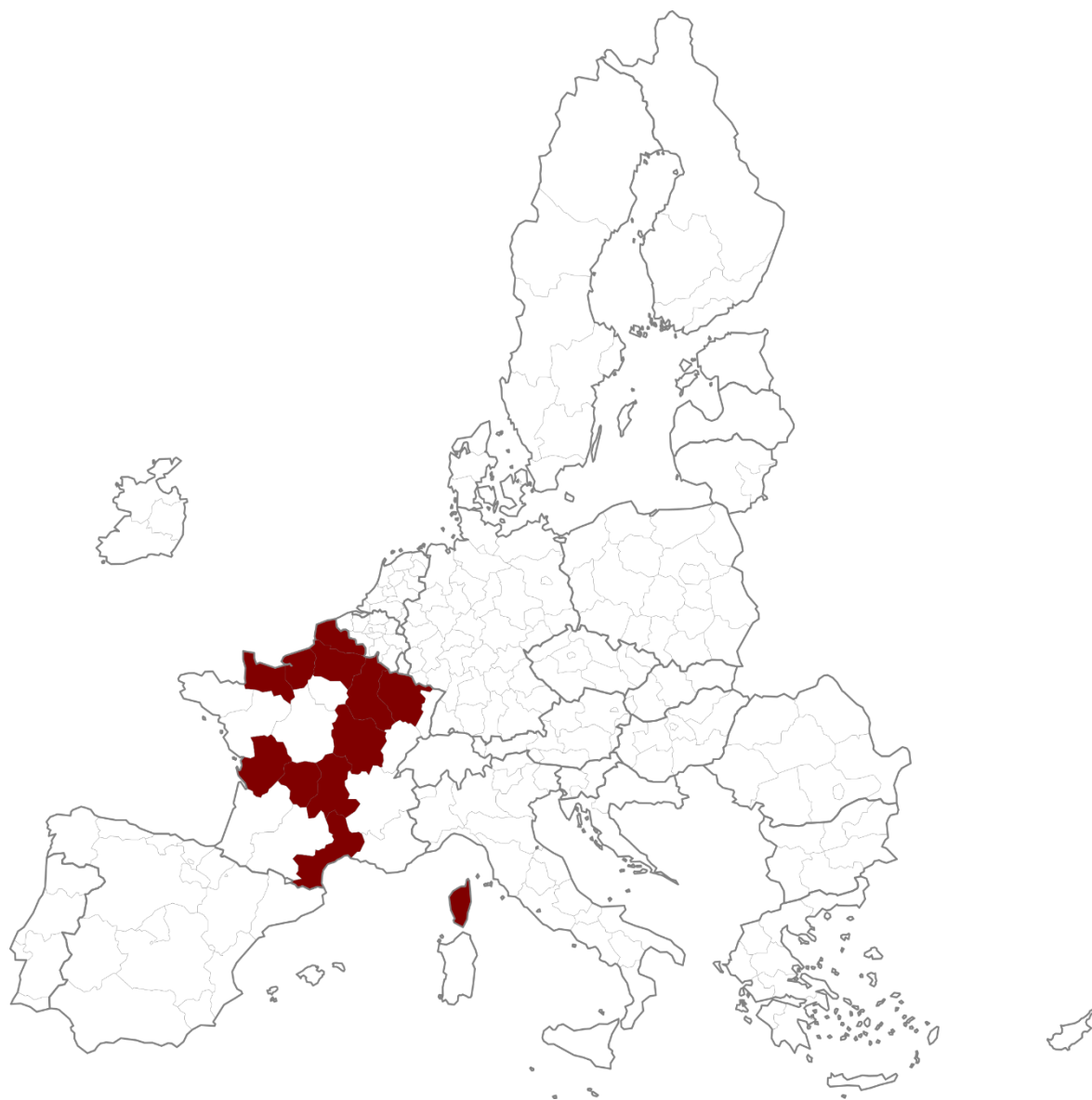
Appendix G: Division of NUTS 2 Regions Into Clusters

Cluster 1	FRC1, FRD1, FRD2, FRE1, FRE2, FRF2, FRF3, FRI2, FRI3, FRJ1, FRK1, FRM0
Cluster 2	ES11, ES12, ES13, ES23, ES24, ES41, ES53, CY00
Cluster 3	BG41, CZ01, ES30, HU11, PL91, RO32, SI04, SK01
Cluster 4	CZ02, CZ03, CZ05, CZ06, CZ07, CZ08, HU12, HU21, HU22, HU31, MT00, RO42, SK02
Cluster 5	DE22, DE24, DE27, DE40, DE73, DE80, DE93, DE94, DEA3, DEA4, DEA5, DEB1, DEC0, DED4, DEE0, DEF0, DEG0, ITC1, ITC3, ITH1, ITH2, ITH3, ITH4, ITH5, ITI1, NL12, NL13, NL34, NL42, AT11
Cluster 6	BE32, BE33, BE34, BE35, DK02, DED5, EE00, IE04, ES21, ES22, ES51, FRB0, FRC2, FRF1, FRG0, FRH0, FRI1, FRJ2, FRK2, FRL0, HR04, ITC4, ITI4, LV00, LT01, NL23, AT12, PL21, PL51, PL63, PT17, SI03, FI19, FI1C, FI1D
Cluster 7	BE22, BE23, BE25, DK03, DK04, DK05, DE13, DE23, DE26, DE50, DE72, DE92, DEA1, DEA2, NL11, NL21, NL22, NL33, NL41, AT21, AT31, AT32, AT33, AT34, SE21, SE31, SE32, SE33
Cluster 8	EL30, EL41, EL42, EL43, EL51, EL52, EL53, EL54, EL61, EL62, EL63, EL64, EL65, ES42, ES43, ES52, ES61, ES62, ITF3, ITF4, ITF6, ITG1, ITG2
Cluster 9	BE21, BE24, DE11, DE12, DE14, DE21, DE25, DE30, DE71, DE91, DEB3, DED2, AT13, AT22, SE12, SE22, SE23
Cluster 10	BE10, BE31, DK01, DE60, IE05, IE06, FR10, LU00, NL31, NL32, FI1B, SE11
Cluster 11	BG31, BG32, BG33, BG34, BG42, CZ04, HR03, ITI2, ITI3, ITF1, ITF2, ITF5, LT02, HU23, HU32, HU33, PL22, PL41, PL42, PL43, PL52, PL61, PL62, PL71, PL72, PL81, PL82, PL84, PL92, PT11, PT16, PT18, RO11, RO12, RO21, RO22, RO31, RO41, SK03, SK04

Source: own elaboration

Appendix H: Cartograms of Individual Clusters

Cartogram of Cluster 1



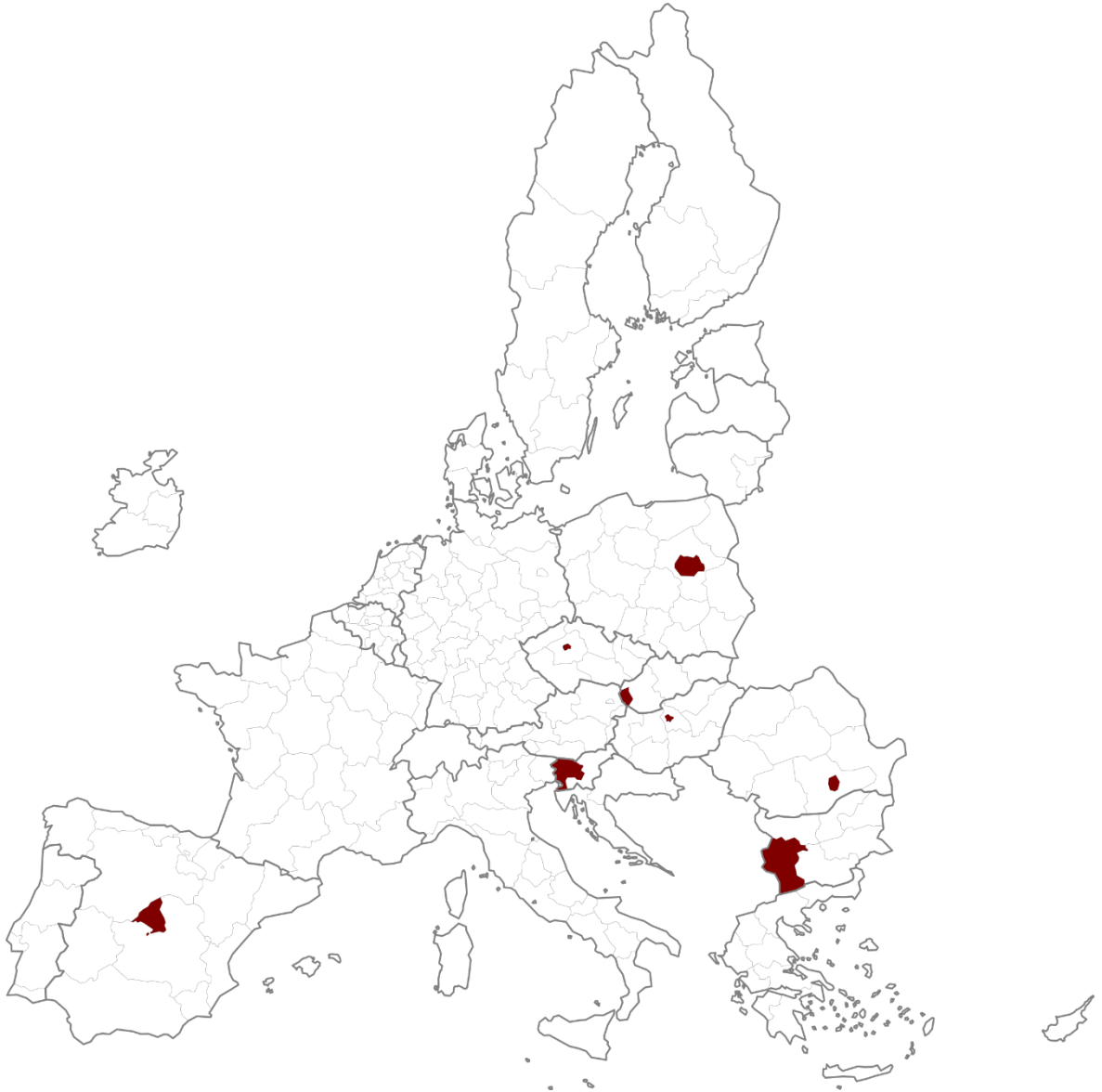
Source: own elaboration in Inkscape 1.1.2

Cartogram of Cluster 2



Source: own elaboration in Inkscape 1.1.2

Cartogram of Cluster 3



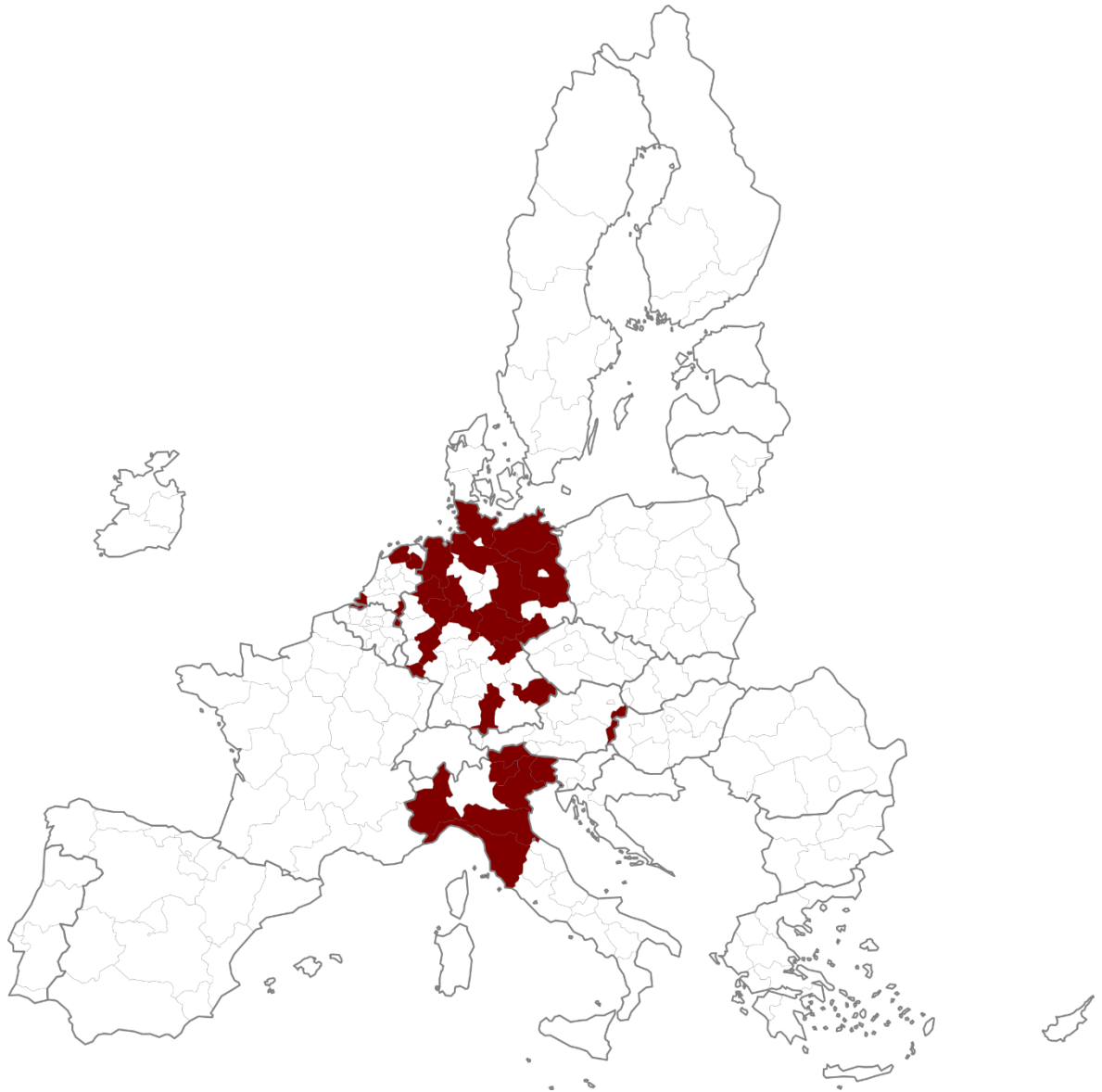
Source: own elaboration in Inkscape 1.1.2

Cartogram of Cluster 4



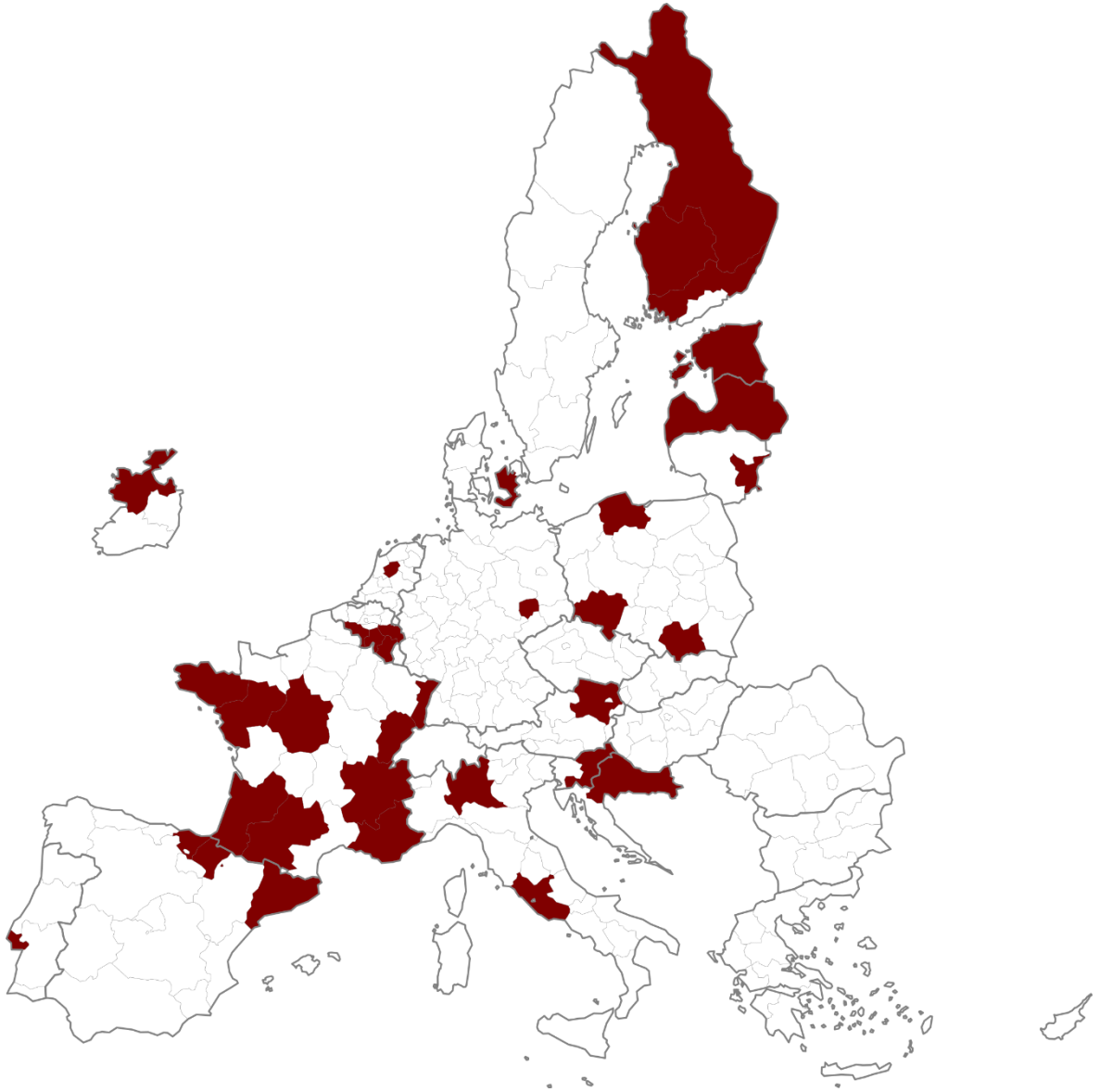
Source: own elaboration in Inkscape 1.1.2

Cartogram of Cluster 5



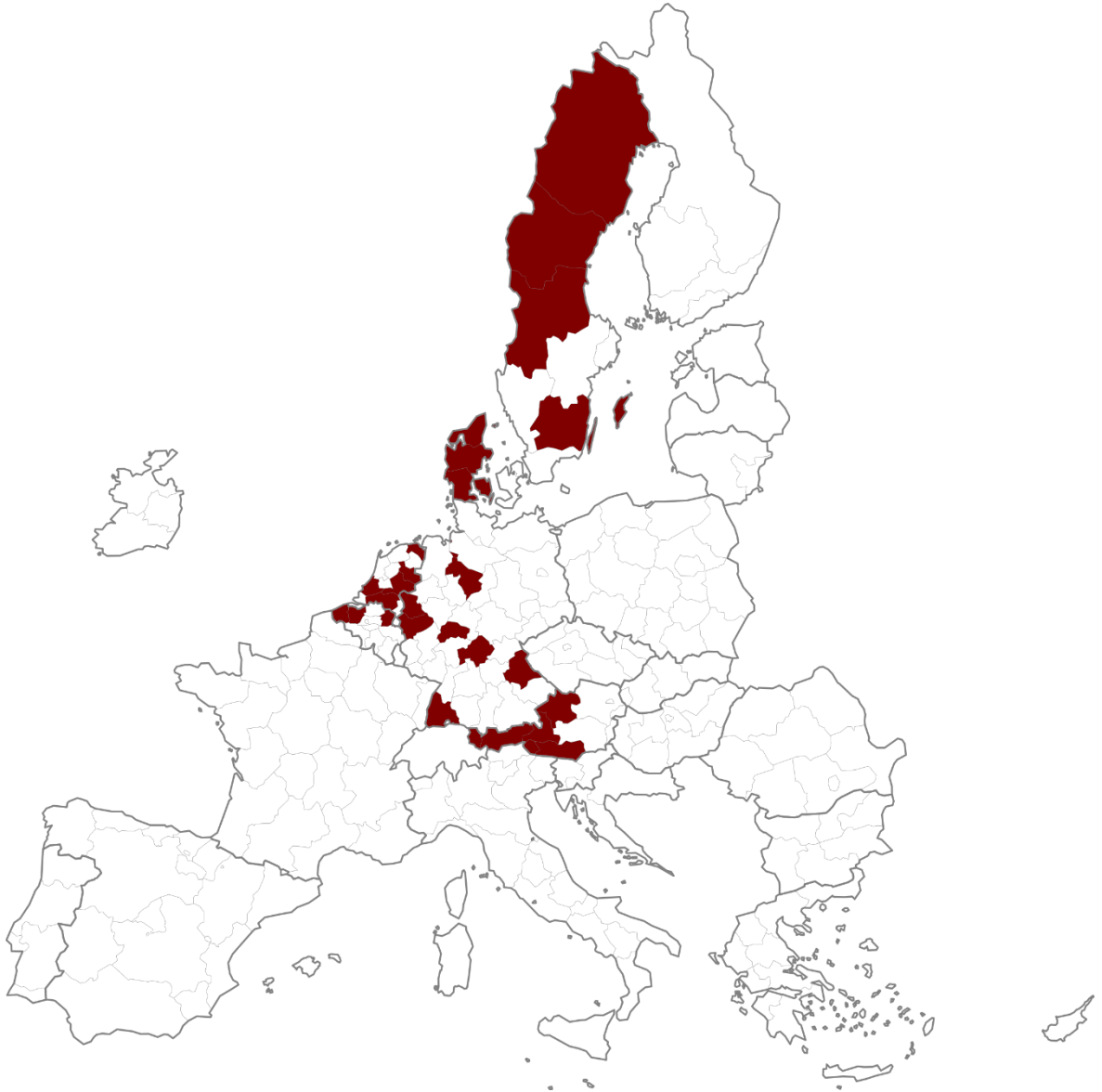
Source: own elaboration in Inkscape 1.1.2

Cartogram of Cluster 6



Source: own elaboration in Inkscape 1.1.2

Cartogram of Cluster 7



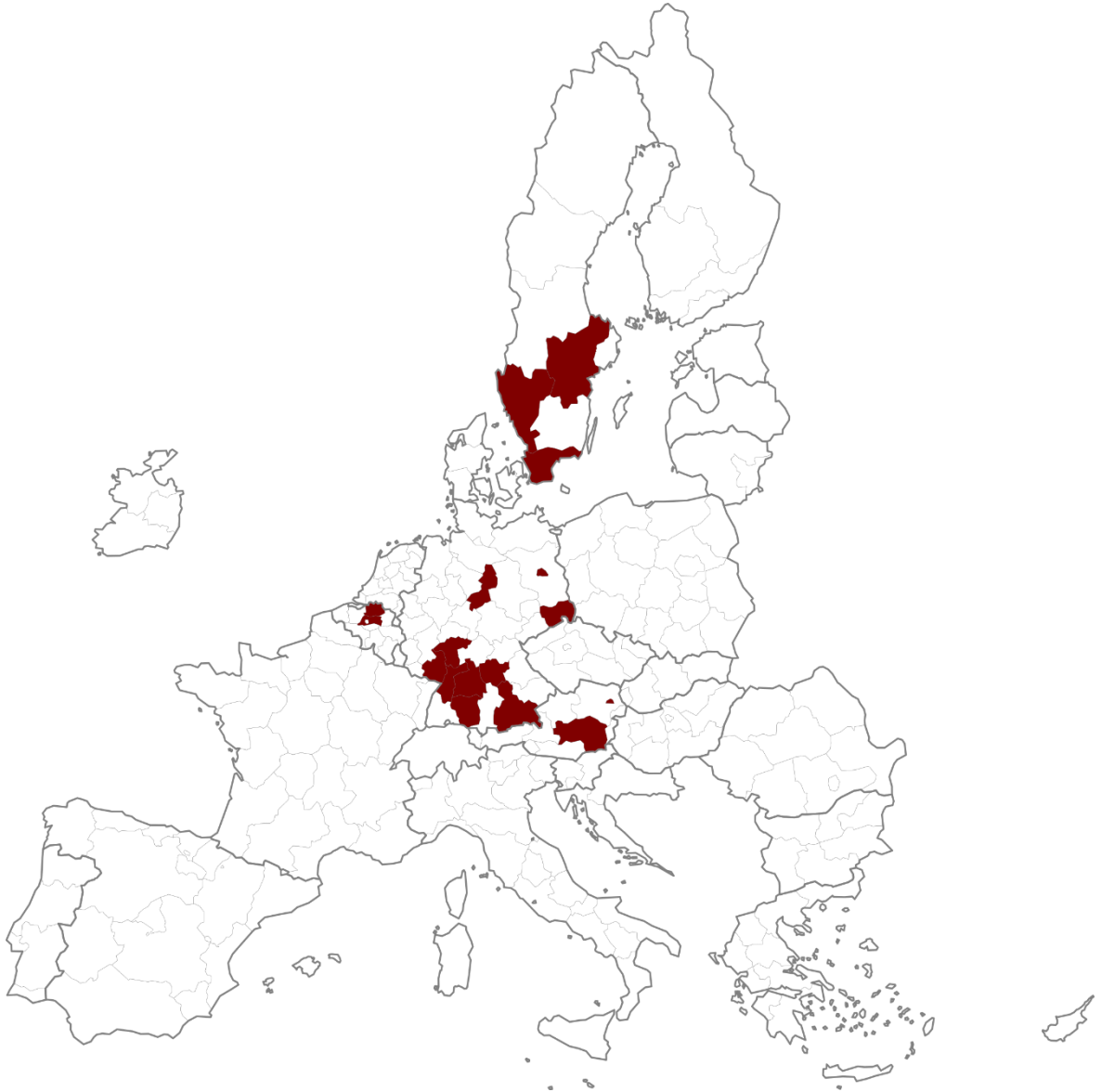
Source: own elaboration in Inkscape 1.1.2

Cartogram of Cluster 8



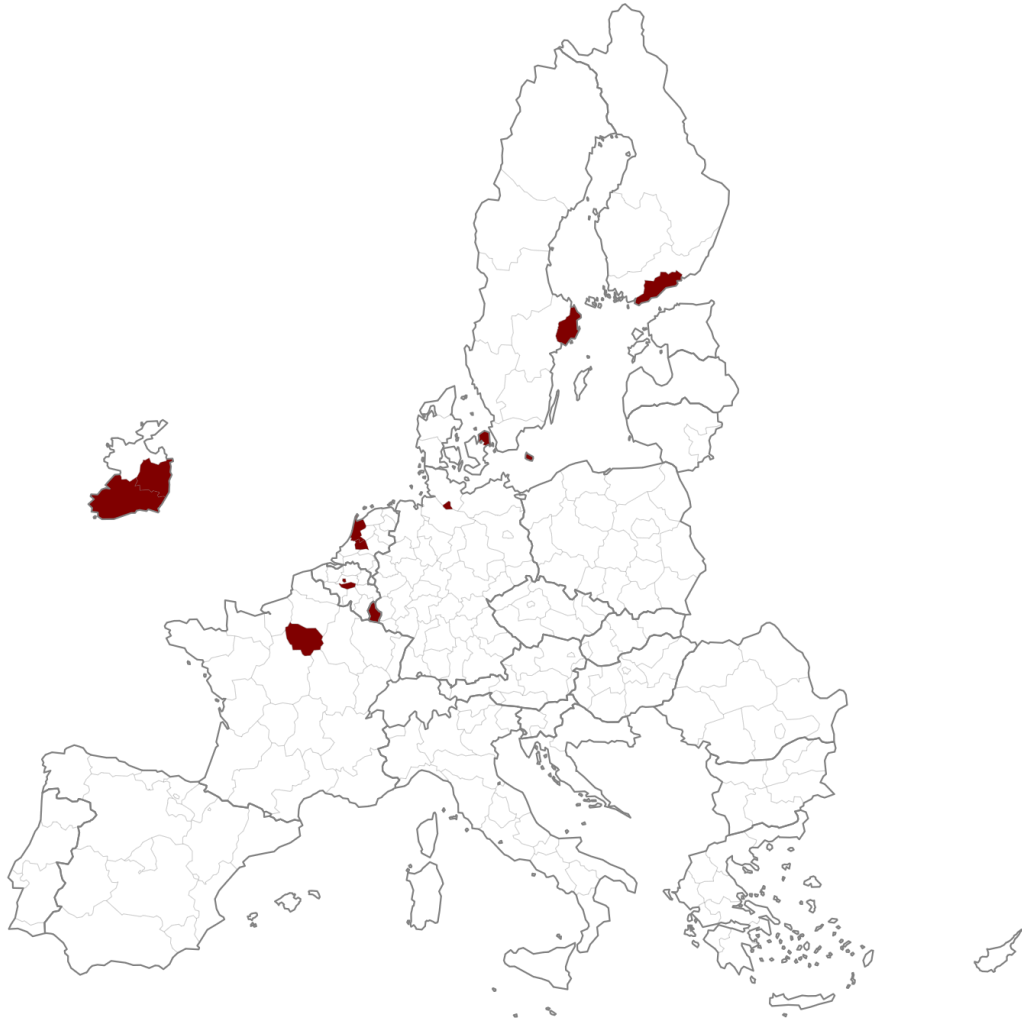
Source: own elaboration in Inkscape 1.1.2

Cartogram of Cluster 9



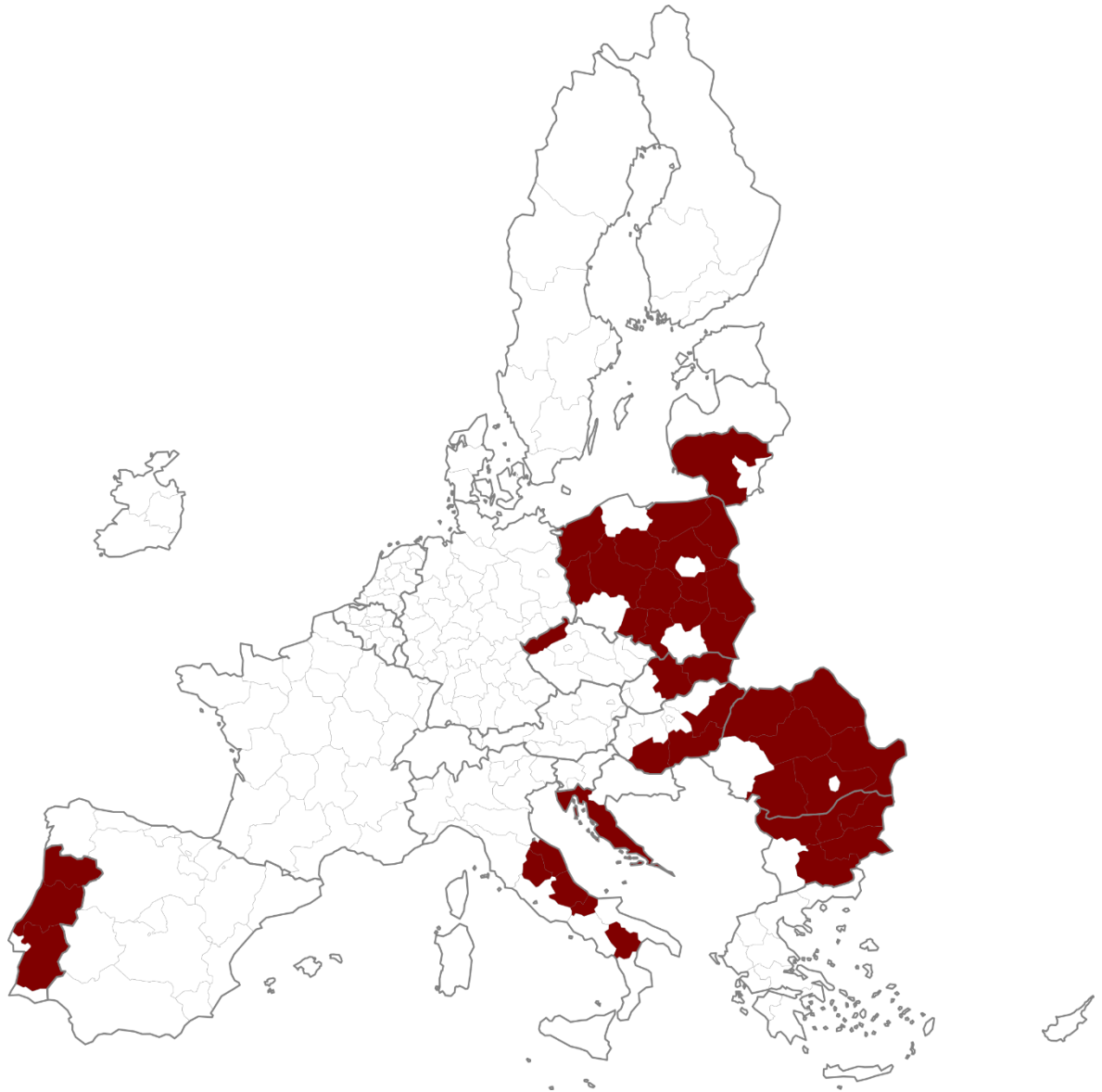
Source: own elaboration in Inkscape 1.1.2

Cartogram of Cluster 10



Source: own elaboration in Inkscape 1.1.2

Cartogram of Cluster 11



Source: own elaboration in Inkscape 1.1.2