

EUSAIR Multimodal Transport Model

Zoning System Technical Note

October 2019



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Glossary of abbreviations

ASK	Kosovo Agency of Statistics
BiH	Bosnia and Herzegovina
AIM-TI	Adriatic Ionian Region Masterplan for Transport Interconnectivity
EMTM	EUSAIR Multimodal Transport Model
EU	European Union
FIS	Institute for Statistics of Federation of Bosnia and Herzegovina
GDP	Gross Domestic Product
n.a.	Not available
MONSTAT	Statistical Office of Montenegro
NUTS	Nomenclature of territorial units for statistics (Nomenclature des Unités Territoriales Statistiques)
RSIS	Republika Srpska Institute of Statistics
TAZ	Traffic Analysis Zone
TEN-T	Trans-European Network-Transport
TENtec	European Commission's Information System to coordinate and support the Trans-European Transport Network Policy
TSG2	Thematic Steering Group of the EUSAIR Transport and Energy Networks Pillar

Country codes after ISO 3166 alpha-2 code

Albania	AL
Bosnia and Herzegovina	BA
Croatia	HR
Greece	GR
Italy	IT
Kosovo*	XK
Montenegro	ME
North Macedonia	MK
Serbia	RS
Slovenia	SI

* This designation is without prejudice to positions on status, and is in line with UNSCR 1244/1999 and the ICJ Opinion on the Kosovo declaration of independence.

1. Introduction

1.1. Adriatic-Ionian Region Masterplan for Transport Interconnectivity – AIM-TI

In order to support the development of the European Union Strategy for the Adriatic and Ionian Regions (EUSAIR) the Transport Subgroup of the Thematic Steering Group of the EUSAIR Transport and Energy Networks Pillar (TSG2) has proposed to develop a Transport Master Plan, i.e. the **Adriatic-Ionian Region Masterplan for Transport Interconnectivity – AIM-TI**.

The AIM-TI is conceived as a tool for the coordinated implementation of the macro-regional strategy in the framework of the EU policies for the Union’s Enlargement and Cooperation with Neighbouring Countries, Territorial Integration and Cohesion, Single European Transport Area. It aims at identifying projects of macro-regional relevance and support their implementation towards a more competitive and resource efficient transport system in the Adriatic-Ionian Region, with a focus on the maritime dimension of the macro-regional transport and economic systems, green and multimodal accessibility to urban, transport and touristic nodes.

As part of the activities for the elaboration of the AIM-TI a transport model will be developed, i.e. the **EUSAIR Multimodal Transport Model – EMTM**.

1.2. EUSAIR Multimodal Transport Model – EMTM

The EMTM is a macrosimulation model based on the CUBE specialised software by Bentley Industries (former Cibilabs), that will be used for the description of the existing and future networks of the region and the simulation of the current and forecasted transport flows across them.

The EMTM will be developed as a multimodal tool. It will focus on long-distance flows of both freight and passengers transport; it will simulate rail, road and short sea shipping traffic. In order to develop such a model a number of information and data are required, including a set of socioeconomic information to estimate current and future traffic. Transport models simulate the distribution of traffic and transport flows along networks and routes across territories. The areas covered by transport models are usually disaggregated into subareas, referred to as Traffic Analysis Zones (TAZs). TAZs are used to describe the distribution of Origin and/or Destination of transport flows in the study area. As transport activities are embedded in society traffic flows are estimated based on socioeconomic information processed with reference to TAZs, i.e. population, GDP, employment, motorisation, household structure... The number and size of the TAZs depends on the geographic scale and purposes of the models. As a general praxis for large scale models, TAZs correspond to individual or aggregated statistical units as defined by national or international institutes of statistics.

This technical note describes the system of zones identified for the EMTM and the main socioeconomic parameters associated with them.

The note is assumed to be used for validation and integration purposes by the Transport Subgroup Members of the TSG2.

1.3. Countries subject of analysis

The scope of the EMTM covers either partially or totally the territories of the regions of the following countries: Albania, Bosnia and Herzegovina, Croatia, Greece, Italy, Kosovo, Montenegro, North Macedonia, Serbia, Slovenia. Reference to Kosovo in this report is made without prejudice to positions on status, and is in line with UNSCR 1244/1999 and the ICJ Opinion on the Kosovo declaration of independence.

2. Zones of the EMTM

2.1. EMTM Zoning System

Dedicated to the simulation of transport flows at the international scale in a macro-regional territory, the TAZs of the EMTM generally correspond to the Nomenclature of Territorial Units for Statistics – NUTS 3 zones.

2.1.1. Nomenclature of Territorial Units for Statistics (NUTS)

The Nomenclature of Territorial Units for Statistics (NUTS) is a hierarchical system for dividing up the economic territory of the European Union (EU) for the purpose of collection, development and harmonisation of European regional statistics, socioeconomic analyses of the regions and framing of EU regional policies. Four different levels of units have been defined and used by Eurostat to collect and deliver territorial statistics:

- NUTS 0: covering the entire country;
- NUTS 1: covering major socio-economic regions;
- NUTS 2: covering basic regions for the application of regional policies;
- NUTS 3: covering small regions for specific diagnoses.

Basic principles adopted by the European Union to define the Nomenclature of Territorial Units for Statistics are as follow:

- **Principle 1. Population thresholds** (for NUTS 3: 150,000 – 800,000). For administrative levels of NUTS, it is sufficient if the average size of the corresponding regions lies within the thresholds; in case of non-administrative levels, each individual region should do so. Exceptions exist however in case of geographical, socio-economic, historical, cultural or environmental circumstances.
Despite the aim of ensuring that regions of comparable size all appear at the same NUTS level, each level still contains regions which differ greatly in terms of population.
- **Principle 2. NUTS favours administrative division.** For practical reasons the NUTS classification generally mirrors the territorial administrative division of the Member States. This supports the availability of data and the implementation capacity of policy.
- **Principle 3. Regular and extraordinary amendments.** The NUTS classification can be amended, but generally not more frequently than every three years. The amendments are usually based on changes of the territorial structure in one or more Member States. In case of a substantial reorganisation of the administrative structure of a Member State, amendments to the NUTS may be adopted at intervals of less than three years. This has only happened once so far, in 2014 for Portugal.

2.1.2. Zones of the EMTM

NUTS 3 are available in all EU Member States and candidate countries of the Adriatic Ionian Region, i.e. Albania, Croatia, Greece, Italy, North Macedonia, Serbia, Slovenia. For Montenegro, where only one NUTS 3 is defined, it was decided to divide this unit into smaller units (aggregating data on the

basis of information available at the municipal level) that are generally comparable in terms of area with NUTS 3 regions. For Bosnia and Herzegovina and Kosovo TAZs were identified by combining local administrative units, mainly on the basis of geographical, socioeconomic or cultural considerations. The table below lists the TAZs of the EMTM by country in the Adriatic Ionian Region.

Table 1: TAZs of the EMTM by country in the Adriatic Ionian Region

COUNTRY	CODE	NUMBER OF ZONES
Albania	AL	12
Bosnia and Herzegovina	BA	18
Croatia	HR	21
Greece	EL	52
Italy	IT	69
Kosovo	XK	7
Montenegro	ME	8
North Macedonia	MK	8
Serbia	RS	25
Slovenia	SI	12
TOTAL		232

Source: Authors, based on Eurostat and National Statistics

Figure 1: TAZs of the EMTM in the Adriatic Ionian Region



Source: Authors, based on Eurostat and National Statistics

Overall 232 TAZs have been identified for the EMTM in the Adriatic Ionian Region, which are graphically represented in the map above.

2.2. EMTM TAZs by country and their socioeconomic parameters

2.2.1. Albania

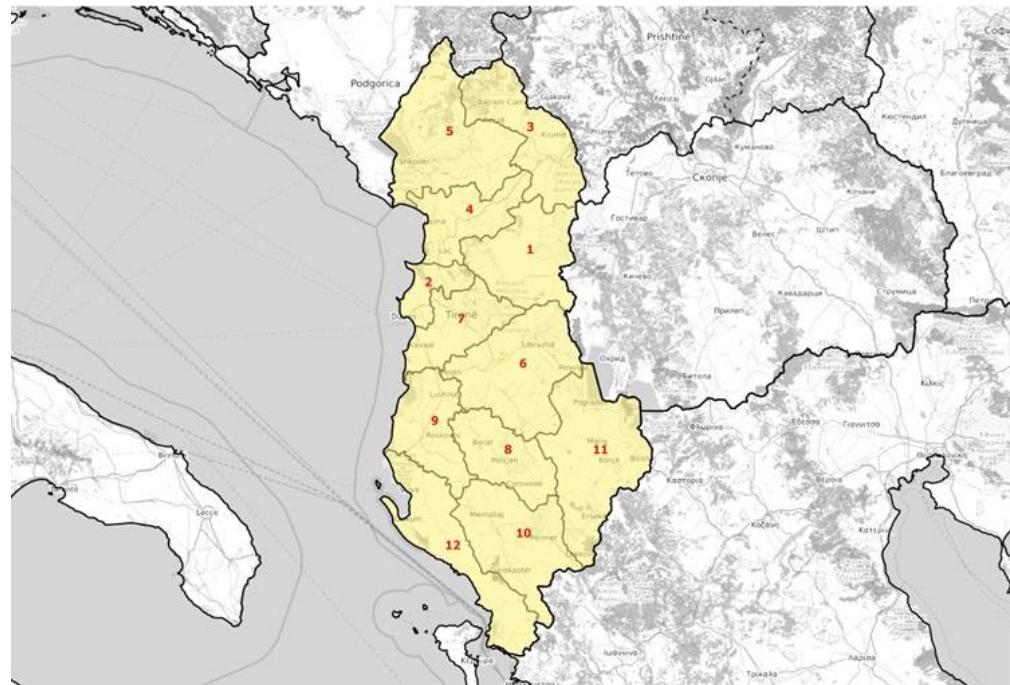
The zoning system of the EMTM in Slovenia has been developed on the basis of the following basic principles:

- Zoning level of detail: NUTS 3;

- Corresponding administrative unit: counties of Albania;
- Data source: Eurostat.

The map in the following figure represents the TAZs of the EMTM in Albania.

Figure 2: TAZs of the EMTM in Albania



Source: Authors, based on Eurostat

The correspondence table between EMTM TAZs and statistical units in Albania is provided below, together with the main socioeconomic parameters.

Table 2: TAZs of the EMTM in Albania and main socioeconomic parameters

	TAZ	NUTS3	NAME	POPULATION	GDP	EMPLOYEES
AL	1	AL011	Diber	125,579	372	n.a.
AL	2	AL012	Durres	284,823	1,148	n.a.
AL	3	AL013	Kukes	79,559	191	n.a.
AL	4	AL014	Lezhe	129,019	383	n.a.
AL	5	AL015	Shkoder	207,924	600	n.a.
AL	6	AL021	Elbasan	283,822	791	n.a.
AL	7	AL022	Tirana	862,361	4,866	n.a.
AL	8	AL031	Berat	131,942	437	n.a.
AL	9	AL032	Fier	302,507	1,246	n.a.
AL	10	AL033	Gjirokaster	65,939	263	n.a.
AL	11	AL034	Korce	214,321	638	n.a.
AL	12	AL035	Vlore	188,795	641	n.a.

Source: Authors, based on Eurostat; Notes: population data refer to 2017, GDP data in million EUR (current market prices 2017) refer to 2017, employment data are not available

2.2.2. Bosnia and Herzegovina

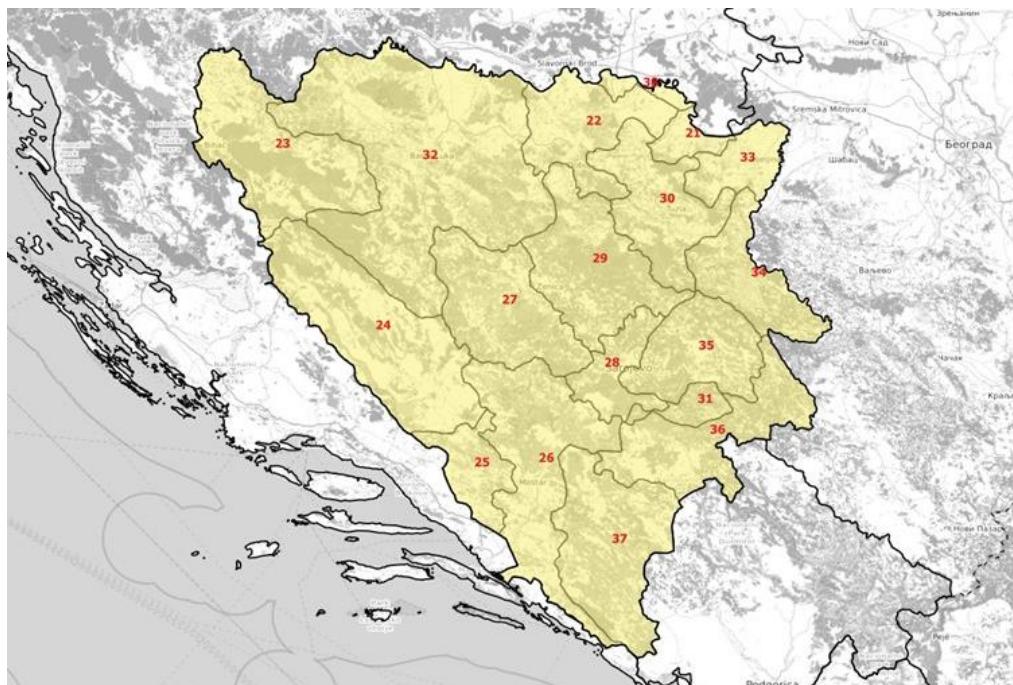
The zoning system of the EMTM in Bosnia and Herzegovina has been developed on the basis of the following basic principles:

- Zoning level of detail: comparable to NUTS 3;

- Corresponding administrative unit: cantons of Bosnia and Herzegovina Federation, autonomous Brcko District, statistical regions of Republika Srpska (aggregation of municipalities of Republika Srpska);
 - Data source: Institute for Statistics of Federation of BiH/FIS, Institute for Statistics of Republika Srpska/RSIS.

The map in the following figure represents the TAZs of the EMTM in Bosnia and Herzegovina.

Figure 3: TAZs of the EMTM in Bosnia and Herzegovina



Source: Authors, based on Institute for Statistics of Federation of BiH/FIS, Institute for Statistics of Republika Srpska/RSIS

The correspondence table between EMTM TAZs and statistical units in Bosnia and Herzegovina is provided below, together with the main socioeconomic parameters.

Table 3: TAZs of the EMTM in Bosnia and Herzegovina and main socioeconomic parameters

COUNTRY	TAZ	NUTS3	NAME	AGGREGATED MUNICIPALITIES	POPULATION	GDP	EMPLOYEES
BA	21	n.a.	Brcko District	-	93,028	n.a.	n.a.
BA	22	n.a.	Doboj	Brod, Vukosavlje, Derventa, Grad Doboј, Donji Zabar, Modrica, Pelagicevo, Petrovo, Stanari, Samac	165,508	n.a.	n.a.
BA	23	n.a.	Unsko-sanski kanton	-	299,343	n.a.	n.a.
BA	24	n.a.	Kanton 10	-	90,727	n.a.	n.a.
BA	25	n.a.	Zapadno-hercegovacki kanton	-	97,893	n.a.	n.a.
BA	26	n.a.	Hercegovacko-	-	236,278	n.a.	n.a.

COUNTRY	TAZ	NUTS3	NAME	AGGREGATED MUNICIPALITIES	POPULATION	GDP	EMPLOYEES
			neretvanski kanton				
BA	27	n.a.	Srednjobosanski kanton	-	273,149	n.a.	n.a.
BA	28	n.a.	Kanton Sarajevo	-	438,443	n.a.	n.a.
BA	29	n.a.	Zenicko-dobojski kanton	-	385,067	n.a.	n.a.
BA	30	n.a.	Tuzlanski kanton	-	477,278	n.a.	n.a.
BA	31	n.a.	Bosansko-podrinjski kanton	-	25,336	n.a.	n.a.
BA	32	n.a.	Banja Luka	Grad Banja Luka, Gradiska, Istočni Drvar, Jezero, Knezevo, Kozarska Dubica, Kostajnica, Kotor Varos, Krupa na Uni, Kupres, Mrkonjic Grad, Novi Grad, Ostra Luka, Petrovac, Grad Prijedor, Prnjavor, Ribnik, Srbac, Teslic, Celinac, Sipovo	524361	n.a.	n.a.
BA	33	n.a.	Bijeljina	Grad Bijeljina, Lopare, Ugljevik	132,343	n.a.	n.a.
BA	34	n.a.	Zvornik	Bratunac, Vlasenica, Grad Zvornik, Laktasi, Milici, Osmaci, Srebrenica, Sekovici	149,817	n.a.	n.a.
BA	35	n.a.	Sokolac	Grad Istočno Sarajevo, Han Pisejak	63,444	n.a.	n.a.
BA	36	n.a.	Foca	Visegrad, Kalinovik, Novo Gorazde, Rogatica, Rudo, Foca, Cajinice	52,959	n.a.	n.a.
BA	37	n.a.	Trebinje	Berkovici, Bileca, Gacko, Istočni Mostar, Ljubinje, Nevesinje, Grad Trebinje	64,585	n.a.	n.a.
BA	38	n.a.	Posavski kanton	-	48,089	n.a.	n.a.

Source: Authors, based on Institute for Statistics of Federation of BiH/FIS, Institute for Statistics of Republika Srpska/RSIS;

Notes: population data refer to 2013 for Federation of Bosnia and Herzegovina and for Brcko District and to 2017 for Republika Srpska, GDP and employment data are not available

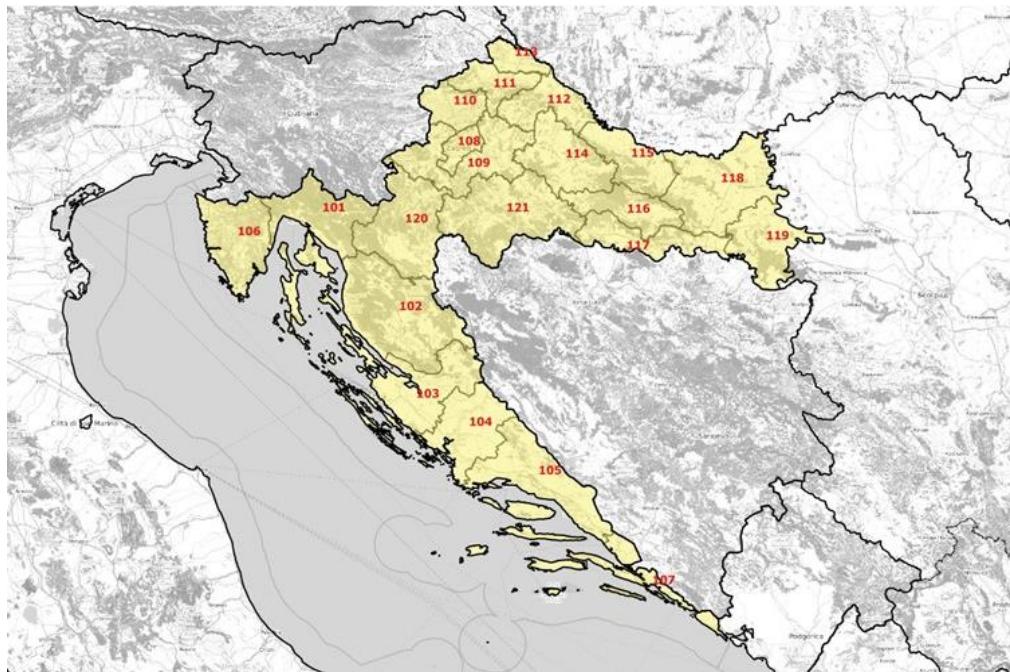
2.2.3. Croatia

The zoning system of the EMTM in Croatia has been developed on the basis of the following basic principles:

- Zoning level of detail: NUTS 3;
- Corresponding administrative unit: counties of Croatia;
- Data source: Eurostat.

The map in the following figure represents the TAZs of the EMTM in Croatia.

Figure 4: TAZs of the EMTM in Croatia



Source: Authors, based on Eurostat

The correspondence table between EMTM TAZs and statistical units in Croatia is provided below, together with the main socioeconomic parameters.

Table 4: TAZs of the EMTM in Croatia and main socioeconomic parameters

COUNTRY	TAZ	NUTS3	NAME	POPULATION	GDP	EMPLOYEES
HR	101	HR031	Primorsko-goranska zupanija	288,328	3,874	104,500
HR	102	HR032	Licko-senjska zupanija	46,485	400	12,799
HR	103	HR033	Zadarska zupanija	169,306	1,544	42,280
HR	104	HR034	Sibensko-kninska zupanija	102,238	902	27,480
HR	105	HR035	Splitsko-dalmatinska zupanija	451,226	3,910	131,640
HR	106	HR036	Istarska zupanija	208,109	2,936	75,340
HR	107	HR037	Dubrovacko-neretvanska zupanija	121,671	1,374	37,190
HR	108	HR041	Grad Zagreb	803,647	15,677	412,370
HR	109	HR042	Zagrebacka zupanija	313,072	2,700	74,130
HR	110	HR043	Krapinsko-zagorska zupanija	127,060	951	32,920
HR	111	HR044	Varazdinska zupanija	169,805	1,619	58,660
HR	112	HR045	Koprivnicko zupanija	110,129	1,018	29,110
HR	113	HR046	Medimurska zupanija	111,669	1,068	35,390
HR	114	HR047	Bjelovarsko-bilogorska zupanija	110,841	861	28,390
HR	115	HR048	Viroviticko-podravska zupanija	78,239	489	18,140
HR	116	HR049	Pozesko-slavonska zupanija	70,937	456	17,310
HR	117	HR04A	Brodsko-posavska zupanija	146,288	931	32,790
HR	118	HR04B	Osjecko-barnjska zupanija	287,124	2,559	83,640
HR	119	HR04C	Vukovarsko-srijemska zupanija	163,324	1,086	39,080

COUNTRY	TAZ	NUTS3	NAME	POPULATION	GDP	EMPLOYEES
HR	120	HR04D	Karlovacka zupanija	119,464	1,023	35,110
HR	121	HR04E	Sisacko-moslavacka zupanija	155,251	1,262	40,550

Source: Authors, based on Eurostat; Notes: population data refer to 2017, GDP data in million EUR (current market prices 2017) refer to 2016 and employees data refer to 2016

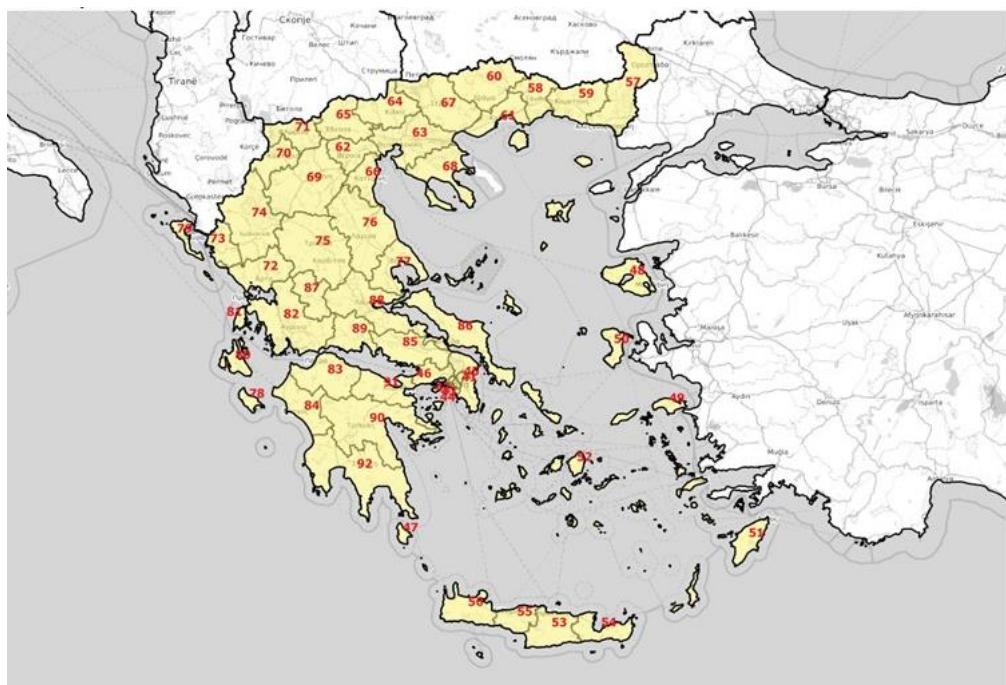
2.2.4. Greece

The zoning system of the EMTM in Greece has been developed on the basis of the following basic principles:

- Zoning level of detail: NUTS 3;
- Corresponding administrative unit: regional units or combinations thereof;
- Data source: Eurostat.

The map in the following figure represents the TAZs of the EMTM in Greece.

Figure 5: TAZs of the EMTM in Greece



Source: Authors, based on Eurostat

The correspondence table between EMTM TAZs and statistical units in Greece is provided below, together with the main socioeconomic parameters.

Table 5: TAZs of the EMTM in Greece and main socioeconomic parameters

COUNTRY	TAZ	NUTS3	NAME	POPULATION	GDP	EMPLOYEES
EL	41	EL301	Voreios Tomeas Athinon	586,621	14,894	212,260
EL	42	EL302	Dytikos Tomeas Athinon	484,628	5,472	90,180
EL	43	EL303	Kentrikos Tomeas Athinon	924,917	29,871	450,080
EL	44	EL304	Notios Tomeas Athinon	531,739	9,723	136,260
EL	45	EL305	Anatoliki Attiki	561,097	10,518	154,520
EL	46	EL306	Dytiki Attiki	178,703	4,066	65,650
EL	47	EL307	Peiraias, Nisoi	505,854	9,328	148,130
EL	48	EL411	Lesvos, Limnos	106,184	1,279	17,670

COUNTRY	TAZ	NUTS3	NAME	POPULATION	GDP	EMPLOYEES
EL	49	EL412	Ikaria, Samos	43,523	532	8,670
EL	50	EL413	Chios	53,993	644	12,240
EL	51	EL421	Kalymnos, Karpathos, Kos, Rodos	211,425	3,230	61,250
EL	52	EL422	Andros, Thira, Kea, Milos, Mykonos, Naxos, Paros, Syros, Tinos	126,958	2,751	29,300
EL	53	EL431	Irakleio	311,640	4,215	78,840
EL	54	EL432	Lasithi	74,463	1,115	13,590
EL	55	EL433	Rethymni	87,482	1,174	18,090
EL	56	EL434	Chania	159,089	2,228	39,720
EL	57	EL511	Evros	147,709	1,833	32,490
EL	58	EL512	Xanthi	112,112	1,124	22,470
EL	59	EL513	Rodopi	111,731	1,122	19,240
EL	60	EL514	Drama	96,836	1,015	14,470
EL	61	EL515	Thasos, Kavala	134,411	1,808	27,599
EL	62	EL521	Imathia	141,517	1,532	24,160
EL	63	EL522	Thessaloniki	1,108,085	15,552	302,800
EL	64	EL523	Kilkis	80,762	918	13,020
EL	65	EL524	Pella	138,583	1,572	22,480
EL	66	EL525	Pieria	131,388	1,421	20,670
EL	67	EL526	Serres	169,242	1,678	20,800
EL	68	EL527	Chalkidiki	110,545	1,565	12,190
EL	69	EL531	Grevena, Kozani	173,569	2,552	33,370
EL	70	EL532	Kastoria	47,723	517	8,430
EL	71	EL533	Florina	50,196	847	9,459
EL	72	EL541	Arta, Preveza	122,687	1,414	23,230
EL	73	EL542	Thesprotia	45,131	532	7,080
EL	74	EL543	Ioannina	167,432	2,013	36,310
EL	75	EL611	Karditsa, Trikala	238,594	2,545	40,570
EL	76	EL612	Larisa	282,542	4,070	67,530
EL	77	EL613	Magnisia, Sporades	204,738	2,599	36,410
EL	78	EL621	Zakynthos	39,938	722	12,010
EL	79	EL622	Kerkyra	102,613	1,548	23,160
EL	80	EL623	Ithaki, Kefallinia	38,945	566	4,570
EL	81	EL624	Lefkada	23,935	288	4,090
EL	82	EL631	Aitolokarnania	204,159	2,360	34,280
EL	83	EL632	Achaia	303,224	3,956	63,970
EL	84	EL633	Ileia	156,587	1,716	28,810
EL	85	EL641	Voiotia	121,004	2,509	32,299
EL	86	EL642	Evvoia	212,764	2,836	36,030
EL	87	EL643	Evrytania	19,285	198	4,090
EL	88	EL644	Fthiotida	160,278	2,196	37,360
EL	89	EL645	Fokida	42,430	446	7,010
EL	90	EL651	Argolida, Arkadia	180,508	2,790	36,640
EL	91	EL652	Korinthia	148,540	2,006	29,349
EL	92	EL653	Lakonia, Messinia	250,134	3,081	48,150

Source: Authors, based on Eurostat; Notes: population data refer to 2017, GDP data in million EUR (current market prices 2017) refer to 2016 and employees data refer to 2016

2.2.5. Italy

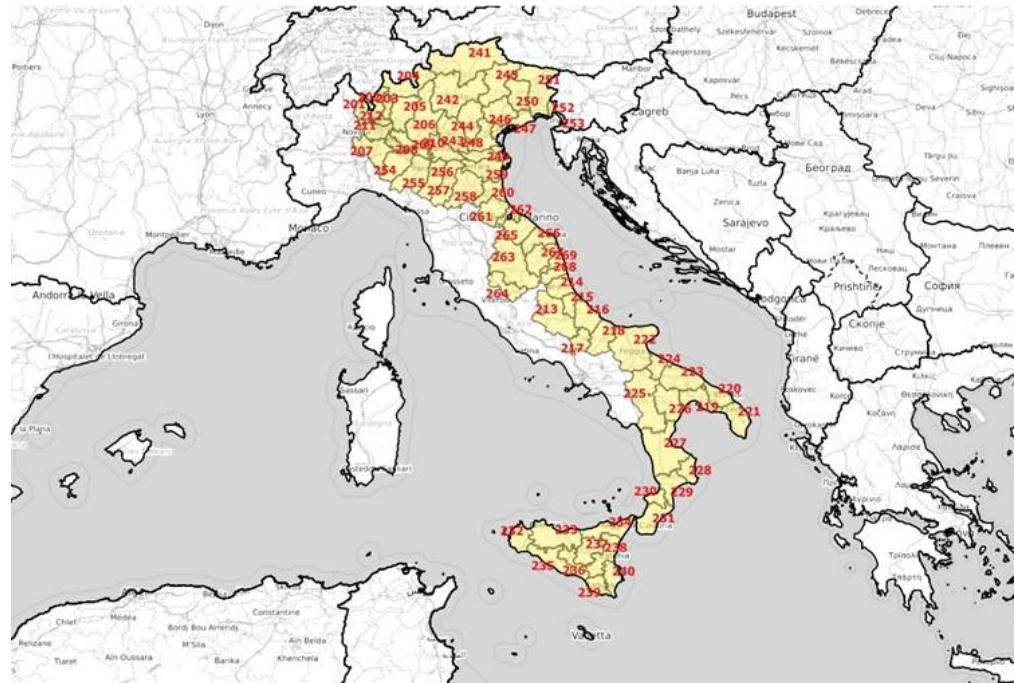
The zoning system of the EMTM in Italy has been developed on the basis of the following basic principles:

- Zoning level of detail: NUTS 3;

- Corresponding administrative unit: provinces of Italy;
- Data source: Eurostat.

The map in the following figure represents the TAZs of the EMTM in Italy.

Figure 6: TAZs of the EMTM in Italy



Source: Authors, based on Eurostat

The correspondence table between EMTM TAZs and statistical units in Italy is provided below, together with the main socioeconomic parameters.

Table 6: TAZs of the EMTM in Italy and main socioeconomic parameters

COUNTRY	TAZ	NUTS3	NAME	POPULATION	GDP	EMPLOYEES
IT	201	ITC41	Varese	890,043	25,567	267,000
IT	202	ITC42	Como	600,190	16,505	174,100
IT	203	ITC43	Lecco	339,238	10,075	100,800
IT	204	ITC44	Sondrio	181,437	5,234	61,200
IT	205	ITC46	Bergamo	1,109,933	34,805	374,800
IT	206	ITC47	Brescia	1,262,678	40,666	418,000
IT	207	ITC48	Pavia	547,251	13,024	133,600
IT	208	ITC49	Lodi	229,338	5,999	61,400
IT	209	ITC4A	Cremona	359,388	10,725	103,800
IT	210	ITC4B	Mantova	412,610	12,602	137,200
IT	211	ITC4C	Milano	3,218,201	168,419	1,561,700
IT	212	ITC4D	Monza e della Brianza	868,859	25,699	252,500
IT	213	ITF11	L'Aquila	301,910	7,260	85,400
IT	214	ITF12	Teramo	309,859	7,183	90,500
IT	215	ITF13	Pescara	321,309	7,750	83,800
IT	216	ITF14	Chieti	389,169	9,608	118,100
IT	217	ITF21	Isernia	85,805	1,648	19,500
IT	218	ITF22	Campobasso	224,644	4,445	54,900
IT	219	ITF43	Taranto	583,479	10,297	141,799
IT	220	ITF44	Brindisi	397,083	7,027	92,400

COUNTRY	TAZ	NUTS3	NAME	POPULATION	GDP	EMPLOYEES
IT	221	ITF45	Lecce	802,082	12,718	171,700
IT	222	ITF46	Foggia	628,556	10,874	140,400
IT	223	ITF47	Bari	1,260,142	26,534	348,300
IT	224	ITF48	Barletta-Andria-Trani	392,546	6,046	86,700
IT	225	ITF51	Potenza	370,680	8,484	96,900
IT	226	ITF52	Matera	199,685	3,406	46,699
IT	227	ITF61	Cosenza	711,739	11,071	152,600
IT	228	ITF62	Crotone	175,566	2,741	37,300
IT	229	ITF63	Catanzaro	362,343	6,862	97,300
IT	230	ITF64	Vibo Valentia	161,619	2,465	33,700
IT	231	ITF65	Reggio di Calabria	553,861	9,760	126,300
IT	232	ITG11	Trapani	434,476	6,768	89,500
IT	233	ITG12	Palermo	1,268,217	23,046	281,600
IT	234	ITG13	Messina	636,653	11,099	145,400
IT	235	ITG14	Agrigento	442,049	6,521	88,400
IT	236	ITG15	Caltanissetta	269,710	4,123	56,500
IT	237	ITG16	Enna	168,052	2,598	32,500
IT	238	ITG17	Catania	1,113,303	19,679	259,200
IT	239	ITG18	Ragusa	321,359	5,551	83,200
IT	240	ITG19	Siracusa	402,822	7,640	95,300
IT	241	ITH10	Bolzano-Bozen	524,256	22,101	215,700
IT	242	ITH20	Trento	538,604	18,885	193,700
IT	243	ITH31	Verona	921,557	30,486	323,900
IT	244	ITH32	Vicenza	865,082	28,367	300,800
IT	245	ITH33	Belluno	205,781	6,788	71,200
IT	246	ITH34	Treviso	885,972	28,140	298,000
IT	247	ITH35	Venezia	854,275	26,594	284,500
IT	248	ITH36	Padova	936,274	31,245	331,300
IT	249	ITH37	Rovigo	238,588	6,104	67,600
IT	250	ITH41	Pordenone	312,051	9,382	106,800
IT	251	ITH42	Udine	531,466	15,811	177,400
IT	252	ITH43	Gorizia	139,673	3,817	44,400
IT	253	ITH44	Trieste	234,682	7,966	87,300
IT	254	ITH51	Piacenza	286,758	8,982	98,100
IT	255	ITH52	Parma	448,899	16,125	171,700
IT	256	ITH53	Reggio nell'Emilia	532,483	18,495	181,800
IT	257	ITH54	Modena	700,862	26,474	259,200
IT	258	ITH55	Bologna	1,009,210	39,825	404,600
IT	259	ITH56	Ferrara	348,362	9,270	98,100
IT	260	ITH57	Ravenna	391,414	12,367	127,900
IT	261	ITH58	Forli -Cesena	394,067	12,385	130,300
IT	262	ITH59	Rimini	336,786	9,846	104,700
IT	263	ITI21	Perugia	660,690	16,478	202,400
IT	264	ITI22	Terni	228,218	5,086	61,600
IT	265	ITI31	Pesaro e Urbino	360,711	9,555	111,899
IT	266	ITI32	Ancona	474,124	13,932	162,200
IT	267	ITI33	Macerata	318,921	8,019	90,300
IT	268	ITI34	Ascoli Piceno	209,450	5,247	58,300
IT	269	ITI35	Fermo	174,849	4,332	49,100

Source: Authors, based on Eurostat; Notes: population data refer to 2017, GDP data in million EUR (current market prices) refer to 2016 and employees data refer to 2016

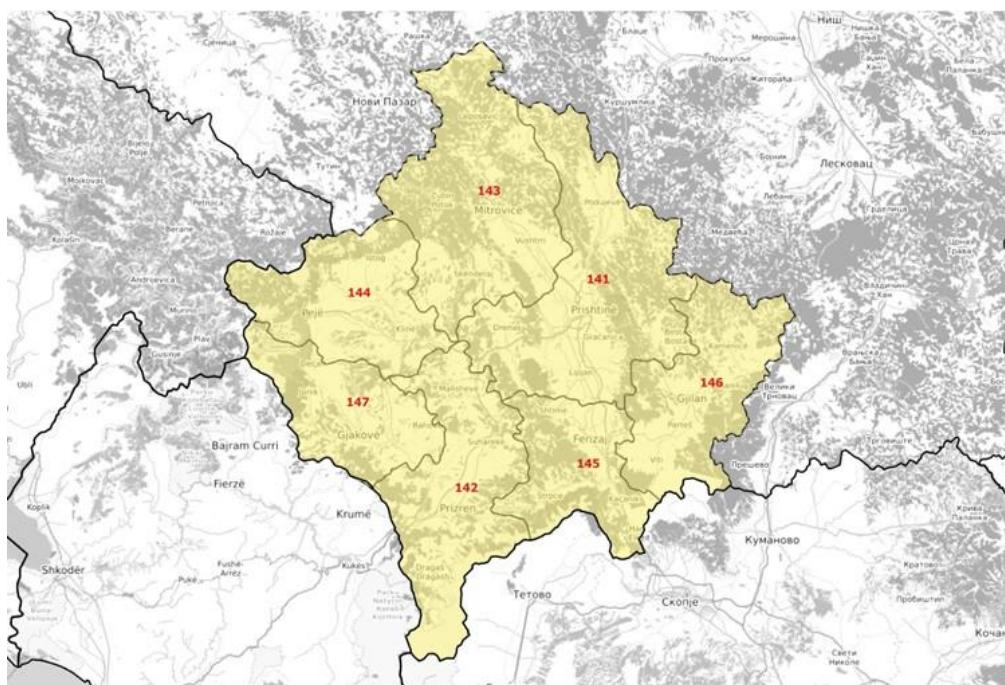
2.2.6. Kosovo¹

The zoning system of the EMTM in Kosovo has been developed on the basis of the following basic principles:

- Zoning level of detail: comparable to NUTS 3;
- Corresponding administrative unit: UNMIK's districts of Kosovo;
- Data source: Kosovo Agency of Statistics (ASK).

The map in the following figure represents the TAZs of the EMTM in Kosovo.

Figure 7: TAZs of the EMTM in Kosovo



Source: Authors, based on Kosovo Agency of Statistics

The correspondence table between EMTM TAZs and statistical units in Kosovo is provided below, together with the main socioeconomic parameters.

Table 7: TAZs of the EMTM in Kosovo and main socioeconomic parameters

COUNTRY	TAZ	NUTS3	NAME	POPULATION	GDP	EMPLOYEES
XX	141	n.a.	Pristina	484,517	n.a.	n.a.
XX	142	n.a.	Prizren	347,506	n.a.	n.a.
XX	143	n.a.	Kosovska Mitrovica	225,212	n.a.	n.a.
XX	144	n.a.	Pec	178,326	n.a.	n.a.
XX	145	n.a.	Ferizaj	179,245	n.a.	n.a.
XX	146	n.a.	Gjilani	166,212	n.a.	n.a.

Source: Authors, based on Kosovo Agency of Statistics; Notes: population data refer to 2016, GDP and employment data are not available

¹ This designation is without prejudice to positions on status, and is in line with UNSCR 1244/1999 and the ICJ Opinion on the Kosovo declaration of independence.

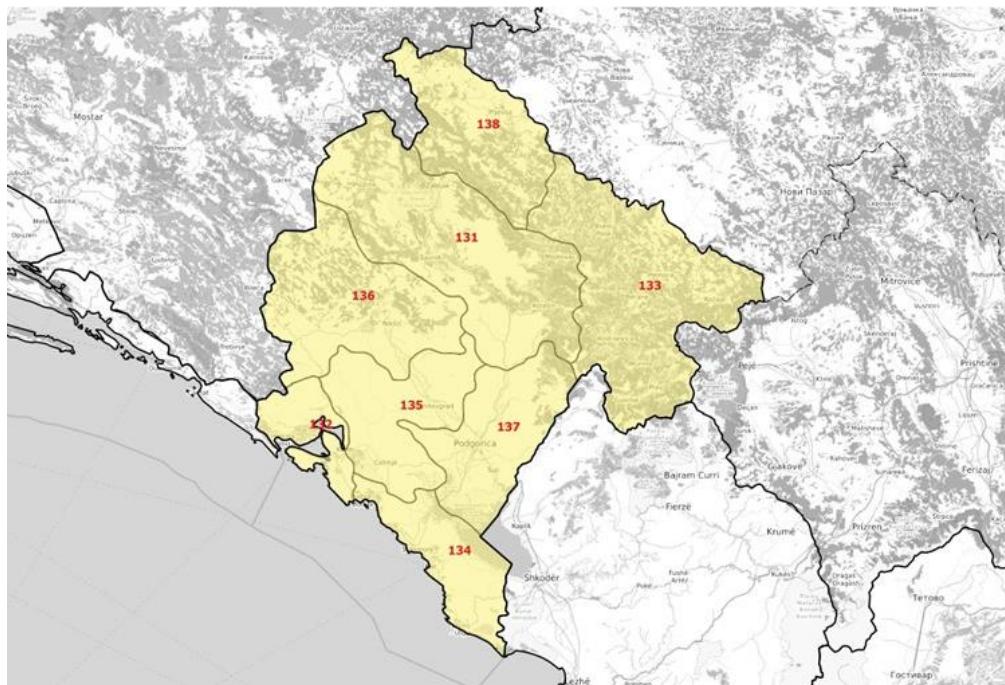
2.2.7. Montenegro

The zoning system of the EMTM in Montenegro has been developed on the basis of the following basic principles:

- Zoning level of detail: comparable to NUTS 3;
- Corresponding administrative unit: aggregation of municipalities of Montenegro;
- Data source: Statistical Office of Montenegro (MONSTAT).

The map in the following figure represents the TAZs of the EMTM in Montenegro.

Figure 8: TAZs of the EMTM in Montenegro



Source: Authors, based on Statistical Office of Montenegro

The correspondence table between EMTM TAZs and statistical units in Montenegro is provided below, together with the main socioeconomic parameters.

Table 8: TAZs of the EMTM in Montenegro and main socioeconomic parameters

COUNTRY	TAZ	NUTS3	NAME	AGGREGATED MUNICIPALITIES	POPULATION	GDP	EMPLOYEES
ME	131	n.a.	Mojkovac	Savnik, Kolasin, Mojkovac, Pluzine, Zabljak	23,274	n.a.	n.a.
ME	132	n.a.	Kotor - Herceg Novi	Kotor, Herceg Novi, Tivat	68,115	n.a.	n.a.
ME	133	n.a.	Bijelo Polje	Gusinje, Rozaje, Andrijevica, Berane, Bijelo Polje	116,520	n.a.	n.a.
ME	134	n.a.	Bar	Ulcinj, Bar, Budva	84,781	n.a.	n.a.
ME	135	n.a.	Danilovgrad	Cetinje, Danilovgrad	33,928	n.a.	n.a.
ME	136	n.a.	Niksic	-	70,042	n.a.	n.a.

COUNTRY	TAZ	NUTS3	NAME	AGGREGATED MUNICIPALITIES	POPULATION	GDP	EMPLOYEES
ME	137	n.a.	Podgorica	-	197,589	n.a.	n.a.
ME	138	n.a.	Pljevlja	-	28,124	n.a.	n.a.

Source: Authors, based on Statistical Office of Montenegro; Notes: population data refer to 2017, GDP and employment data are not available

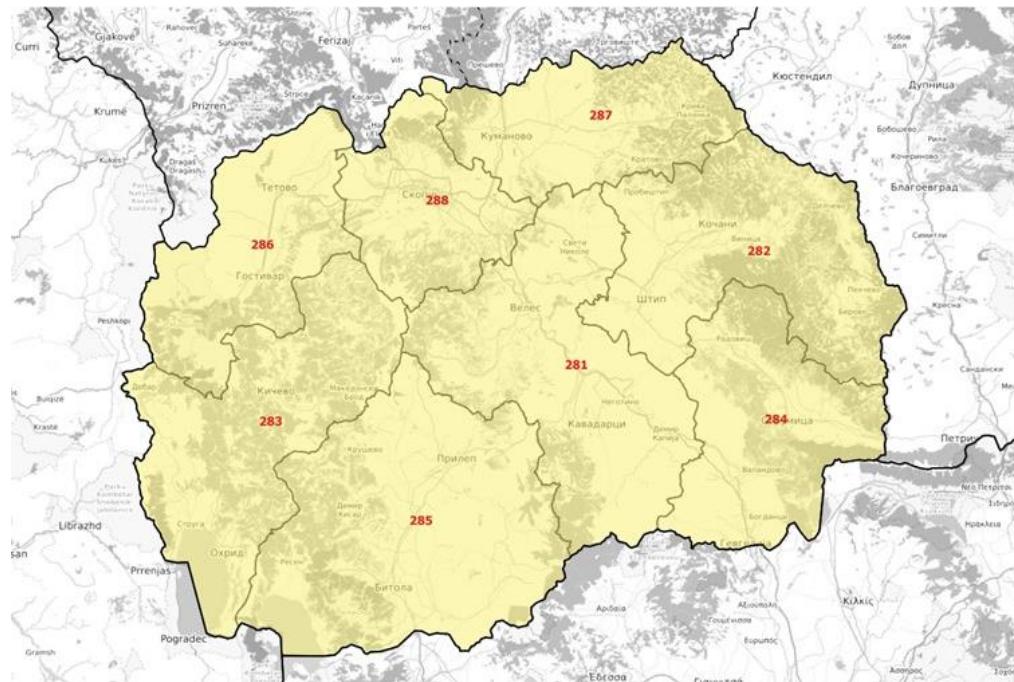
2.2.8. North Macedonia

The zoning system of the EMTM in North Macedonia has been developed on the basis of the following basic principles:

- Zoning level of detail: NUTS 3;
- Corresponding administrative unit: statistical regions of North Macedonia;
- Data source: Eurostat.

The map in the following figure represents the TAZs of the EMTM in North Macedonia.

Figure 9: TAZs of the EMTM in North Macedonia



Source: Authors, based on Eurostat

The correspondence table between EMTM TAZs and statistical units in North Macedonia is provided below, together with the main socioeconomic parameters.

Table 9: TAZs of the EMTM in North Macedonia and main socioeconomic parameters

COUNTRY	TAZ	NUTS3	NAME	POPULATION	GDP	EMPLOYEES
MK	281	MK001	Vardarski	152,569	750	43,520
MK	282	MK002	Istocen	176,261	763	58,040
MK	283	MK003	Jugozapaden	219,729	792	48,340
MK	284	MK004	Jugoistocen	173,517	963	46,880
MK	285	MK005	Pelagoniski	229,993	1,056	64,879
MK	286	MK006	Poloski	320,765	690	52,540
MK	287	MK007	Severoistocen	176,127	481	33,060
MK	288	MK008	Skopski	624,522	4,161	210,850

Source: Authors, based on Eurostat; Notes: population data refer to 2017, GDP data in million EUR (current market prices 2017) refer to 2016 and employees data refer to 2016

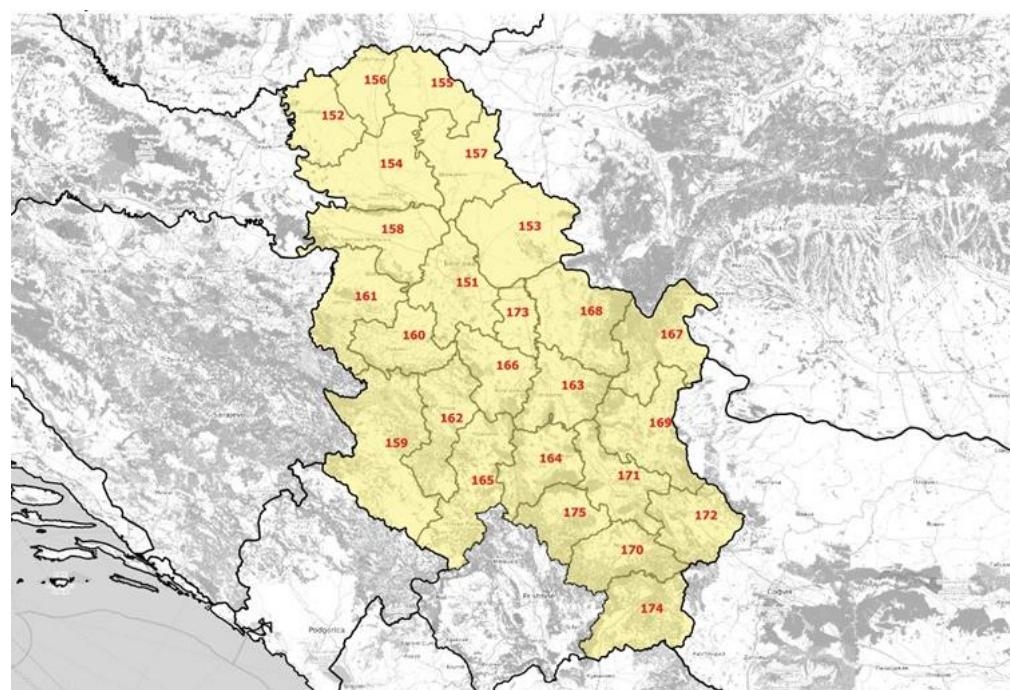
2.2.9. Serbia

The zoning system of the EMTM in Serbia has been developed on the basis of the following basic principles:

- Zoning level of detail: NUTS 3;
- Corresponding administrative unit: districts of Serbia;
- Data source: Eurostat.

The map in the following figure represents the TAZs of the EMTM in Serbia.

Figure 10: TAZs of the EMTM in Serbia



Source: Authors, based on Eurostat

The correspondence table between EMTM TAZs and statistical units in Serbia is provided below, together with the main socioeconomic parameters.

Table 10: TAZs of the EMTM in Serbia and main socioeconomic parameters

COUNTRY	TAZ	NUTS3	NAME	POPULATION	GDP	EMPLOYEES
RS	151	RS110	Beogradska oblast	1,685,797	14,750	n.a.
RS	152	RS121	Zapadnobacka oblast	176,379	718	n.a.
RS	153	RS122	Juznobačka oblast	282,199	1,315	n.a.
RS	154	RS123	Juznobacka oblast	617,702	4,072	n.a.
RS	155	RS124	Severnobačka oblast	139,088	585	n.a.
RS	156	RS125	Servernobacka oblast	180,790	878	n.a.
RS	157	RS126	Srednjobanatska oblast	178,099	825	n.a.
RS	158	RS127	Sremska oblast	301,958	1,412	n.a.
RS	159	RS211	Zlatiborska oblast	272,400	1,136	n.a.
RS	160	RS212	Kolubarska oblast	166,120	664	n.a.
RS	161	RS213	Macvanska oblast	284,375	921	n.a.
RS	162	RS214	Moravicka oblast	202,973	907	n.a.
RS	163	RS215	Pomoravska oblast	203,302	663	n.a.
RS	164	RS216	Rasinska oblast	228,139	716	n.a.
RS	165	RS217	Raska oblast	306,422	809	n.a.
RS	166	RS218	Sumadiška oblast	285,755	1,322	n.a.
RS	167	RS221	Borska oblast	115,716	497	n.a.
RS	168	RS222	Branicevska oblast	171,353	718	n.a.
RS	169	RS223	Zajecarska oblast	110,516	338	n.a.
RS	170	RS224	Jablanicka oblast	204,400	532	n.a.
RS	171	RS225	Nisavska oblast	365,097	1,373	n.a.
RS	172	RS226	Pirotska oblast	86,517	403	n.a.
RS	173	RS227	Podunavska oblast	190,124	425	n.a.
RS	174	RS228	Pčinjska oblast	199,239	464	n.a.
RS	175	RS229	Toplicka oblast	85,812	257	n.a.

Source: Authors, based on Eurostat; Notes: population data refer to 2017, GDP data in million EUR (current market prices 2017) refer to 2016, employment data are not available

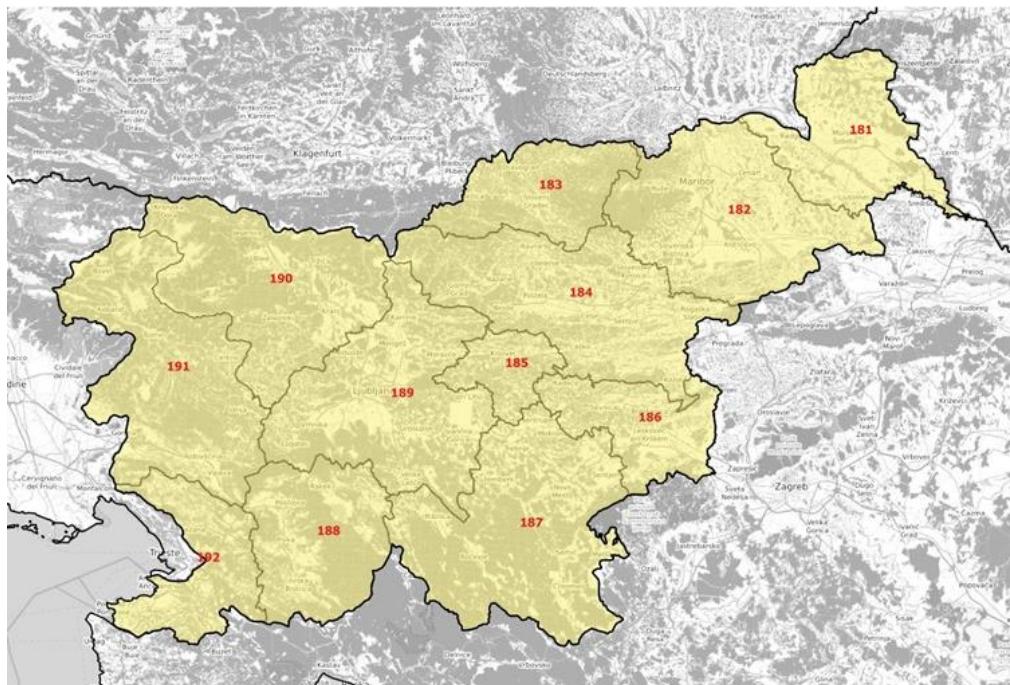
2.2.10. Slovenia

The zoning system of the EMTM in Slovenia has been developed on the basis of the following basic principles:

- Zoning level of detail: NUTS 3;
- Corresponding administrative unit: statistical regions of Slovenia;
- Data source: Eurostat.

The map in the following figure represents the TAZs of the EMTM in Slovenia.

Figure 11: TAZs of the EMTM in Slovenia



Source: Authors, based on Eurostat

The correspondence table between EMTM TAZs and statistical units in Slovenia is provided below, together with the main socioeconomic parameters.

Table 11: TAZs of the EMTM in Slovenia and main socioeconomic parameters

COUNTRY	TAZ	NUTS3	NAME	POPULATION	GDP	EMPLOYEES
SI	181	SI031	Pomurska	115,477	1,611	32,830
SI	182	SI032	Podravska	322,043	5,412	112,490
SI	183	SI033	Koroska	70,761	1,173	22,540
SI	184	SI034	Savinjska	254,761	4,858	95,450
SI	185	SI035	Zasavska	57,280	625	12,470
SI	186	SI036	Posavska	75,544	1,307	22,150
SI	187	SI037	Jugovzhodna Slovenija	142,711	2,921	51,370
SI	188	SI038	Primorsko-notranjska	52,582	788	15,650
SI	189	SI041	Osrednjeslovenska	539,672	15,869	282,280
SI	190	SI042	Gorenjska	203,800	3,769	67,399
SI	191	SI043	Goriska	117,747	2,252	41,220
SI	192	SI044	Obalno-kraska	113,517	2,416	42,050

Source: Authors, based on Eurostat; Notes: population data refer to 2017, GDP data in million EUR (current market prices 2017) refer to 2017 and employees data refer to 2017

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