

Adriatic Ionian Region Masterplan for Transport Interconnectivity (AIM-TI)

EMTM future scenarios

13th Meeting of the Thematic Steering Group for
Pillar 2 – Connecting the Region
(TRANSPORT sub-group)



CONTENT

EMTM future scenarios

- Towards the reference scenario

EMTM elaboration milestones



Status of implementation of the EUSAIR Multimodal Transport Model

Future scenarios



EMTM FUTURE SCENARIOS

Reference scenario (2030)

- Considers infrastructure projects impacting on the rail, road and IWW links, for which works have been already contracted
- The time horizon of the reference scenario is 2030, when all the projects are expected to be fully completed

Mid term analysis scenario (2030)

- Includes all projects in the reference scenario; and
- Considers all the projects from the relevant plans which are expected to be completed by 2030
- Identifies possible projects required to solve potential capacity bottlenecks and/or complete the network

Long term analysis scenario (2040 or 2050)

- Includes all projects in the mid term scenario
- Considers projects from the relevant plans which are foreseen to be completed after 2030
- Identifies possible projects required to solve potential capacity bottlenecks and/or complete the network after 2030



TOWARDS THE REFERENCE SCENARIO

Indicative set of projects for the rail, road and IWW networks

- A first preliminary set of ongoing relevant projects to be considered for the purpose of simulating future model scenarios has been identified for discussion in view of the 13th TSG2 Transport Subgroup meeting
- These projects are presented in the map and tables in the following slides
- Sources considered to perform such analysis include:
 - Core Network Corridor studies project list
 - Western Balkans Investment Framework (WBIF) Website
 - Transport Community Treaty Progress Report on Implementation of Rail Action Plan for Developing a Regional Rail Strategy in the Western Balkans
 - Websites of Ministries of Transport and Infrastructure Managers
 - Albanian National Transport Plan
 - Other publicly available sources
- The research performed is to be considered very preliminary and to be validated and integrated by means of consultation of the TSG 2 Members and/or their colleagues from the relevant departments



INDICATIVE LOCALISATION OF THE REFERENCE SCENARIO PROJECTS



* Localisation refers to the middle point of the section(s) concerned by the projects



EMTM REFERENCE SCENARIO: ALBANIA

NUMBER	MODE	PROJECT	COUNTRY
1	Rail	Mediterranean Corridor (Rail CVIII): Rehabilitation of Tirana - Durrës Railway Line (34.5 km) and Construction of New Line to Rinas Airport (7.4 km) (Tendering stage)	Albania
2	Road	Upgrade of the National Road Network, including: rehabilitation and upgrading of the road between Fier and Tepelenë (approximately 70 km), on the North-South Albanian corridor; construction of a new two-lane motorway between Levan and Vlorë (approximately 24 km); construction of the Gjirokastër bypasses	Albania
3	Road	Tirana Ring Road (22 km)	Albania
4	Road	Widening of Tirana – Durres Highway (32 km)	Albania
5	Road	Reconstruction of Tirana – Durres road on the direction Tirana – Ndroq – Plepa (29 km)	Albania
6	Road	Arbri Road Tirana-Peshkopi (75 km)	Albania
7	Road	Vlora bypass (29 km)	Albania
8	Road	Vlora river road project: Vlora-Qeparo (94 km)	Albania
9	Road	Upgrading to highway standards of the Milot-Rreshen road (30 km)	Albania
10	Road	Kardhiq–Delvina road (33 km)	Albania
11	Road	Construction of Korce-Erseke road (Lot 2)	Albania
12	Road	Construction of road Llogara – Himara (segment Orikum-Llogara)	Albania



EMTM REFERENCE SCENARIO: BOSNIA AND HERZEGOVINA

NUMBER	MODE	PROJECT	COUNTRY
13	Road	Mediterranean Corridor: Construction of Road Corridor Vc in Bosnia and Herzegovina	Bosnia Herzegovina
14	Road	Extension of TEN-T Core Network: Bosnia and Herzegovina – Croatia R2a Road Interconnection, involving construction of a border crossing, a cross-border bridge over the River Sava, as well as motorway connections on the Banja Luka – Gradiska road section. The new developments lie along Route 2a (R2a) which spans 239 km, from Lasva and Banja Luka in Bosnia and Herzegovina to Okucani in Croatia	Bosnia Herzegovina
15	IWW	Reconstruction and improvement of the Sava River in Bosnia and Herzegovina (Labelled 32)	Bosnia Herzegovina



EMTM REFERENCE SCENARIO: CROATIA

NUMBER	MODE	PROJECT	COUNTRY
16	Rail	Upgrading of the existing track on railway line Križevci –Koprivnica - State border with Hungary (short term target) [construction of the second track and deployment of ERTMS level 1 (long term target)]	Croatia
17	Rail	Upgrading of the Dugo Selo – Križevci railway line and construction of the second track	Croatia
18	Rail	Upgrading of the existing railway line Hrvatski Leskovac - Karlovac (short term target) [construction of the second track and deployment of ERTMS level 1 (long term target)]	Croatia
19	Rail	Rehabilitation of the existing Zagreb - Savski Marof railway line	Croatia
20	Road	Construction of the Istrian Y motorway between Pazin and Cerovlje	Croatia
21	Road	Construction of the Osijek - Beli Manastir highway	Croatia
22	Road	Construction of the Pelješac bridge	Croatia



EMTM REFERENCE SCENARIO: GREECE

NUMBER	MODE	PROJECT	COUNTRY
23	Rail	Modernization of infrastructure components (tracks, underpasses, bridges and stops) along the Inoi-Thessaloniki railway line to improve safety and quality of service	Greece
24	Rail	New double high speed (160-200 km/h) railway line Tithorea-Lianokladi-Domokos (106 km) along the Athens-Thessaloniki axis, replacing the existing single line (122 km)	Greece
25	Rail	Upgrading to 4 tracks of the railway network in the Athens metropolitan area, section Athens RS - Tris Gefires (2.36 km), including an underground segment of 1.91 km	Greece
26	Rail	Electrification of the existing Kiato-Rododafni railway line (71 km) (project expected to start by December 2020)	Greece
27	Rail	Modernisation and upgrading of railway line Rododafni -Psathopirgos-Patras, replacing the existing single metric rail track with a double EU standard gauge railway line (21.5 km+10.5 km), along the itinerary between Athens and Patras	Greece
28	Rail	Construction of the new double track Kiato-Diakopto-Rododafni railway line (55 km+16.5 km)	Greece
29	Road	Construction of A3 Motorway, section Xyniada – Lamia	Greece
30	Road	Construction of A3 Motorway, section Trikala – Kipoureio	Greece
31	Road	Construction of A52 Motorway, section Amvrakia - Lefkada	Greece

EMTM REFERENCE SCENARIO: ITALY (1/2)

NUMBER	MODE	PROJECT	COUNTRY
32	Rail	Works to increase the speed on Bologna - Bari railway line (Labelled 29)	Italy
33	Rail	Works to increase the speed on Napoli - Reggio Calabria railway line	Italy
34	Rail	Works to increase the speed on Catania - Augusta - Siracusa railway line	Italy
35	Rail	New construction and upgrading to two tracks of the Catania – Palermo railway line (Labelled 30)	Italy
36	Rail	Upgrading to two tracks of the Bari - Taranto railway line between S. Andrea and Bitetto	Italy
37	Rail	Double track upgrading of the Palermo-Messina railway line between Fiumetorto and Castelbuono	Italy
38	Rail	New High Speed line between Brescia and Verona	Italy
*	Rail	Works to upgrade the following standards of Core Network Corridor and Rail Freight Corridor lines: train length (740 meter), intermodal gauge (P/C80), axle load (D4 maximum weight standard i.e. 22,5 t/axis without speed constraint)* <i>not represented on map</i>	Italy
39	Road	Upgrading to third lane of motorway A4 Venezia-Trieste, between San Donà di Piave and Alvisopoli (Labelled 28)	Italy
40	Road	Construction of a new motorway link between Campogalliano and Sassuolo	Italy



EMTM REFERENCE SCENARIO: ITALY (2/2)

NUMBER	MODE	PROJECT	COUNTRY
41	Road	Upgrading of the road infrastructure interconnecting the A2 Motorway Salerno-Reggio Calabria with the following relevant urban nodes and road infrastructure: Castrovillari (SS105), San Mango d'Aquino (SS 18), Mileto and Paravati, S. Eufemia d'Aspromonte - bivio Solano), highway SS106	Italy
42	Road	Construction of Pedemontana highway Emilia-Romagna	Italy
43	Road	Construction of Cispadana highway	Italy
44	Road	Construction of Pedemontana Veneta highway	Italy
45	Road	Upgrading of SS 106 Jonica highway	Italy
46	Road	Construction of Tirreno – Brennero (Ti.Bre) highway	Italy
47	Road	Construction of A18 Siracusa – Gela Motorway, Rosolini – Ispica section	Italy
48	IWW	Adaptation of the Litoranea Veneta section to the CEMT class IV standard (Labelled 31)	Italy
49	IWW	Adaptation of the Ferrara waterway to the CEMT class V standard (Labelled 31)	Italy



EMTM REFERENCE SCENARIO: KOSOVO*

NUMBER	MODE	PROJECT	COUNTRY
50	Rail	Rehabilitation 149 km of Route 10 (260 km), part of the Orient/East-Med Corridor according to three phases: Phase 1: Fushë Kosovë/Kosovo Polje – border with North Macedonia (under implementation); Phase 2: Fushë Kosovë/Kosovo Polje – Mitrovicë/Mitrovica (tendering stage); and Phase 3: Mitrovicë/Mitrovica – border with Serbia (preparation stage)	Kosovo*

* Reference to KOSOVO in this Presentation 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



EMTM REFERENCE SCENARIO: MONTENEGRO

NUMBER	MODE	PROJECT	COUNTRY
51	Rail	Orient/East-Med Corridor: Montenegro – Serbia R4 Rail Interconnection, Section Bar – Vrbnica (at the Montenegro – Serbia border), representing the most important segment of the Montenegrin rail network, carrying about 20% of all passengers and about 60% of the cargo (Labelled 12)	Montenegro
52	Road	Construction of Bar-Boljare Motorway	Montenegro



EMTM REFERENCE SCENARIO: NORTH MACEDONIA

NUMBER	MODE	PROJECT	COUNTRY
53	Rail	Orient/East-Med Corridor: Construction of Rail Corridor VIII, Sections Kumanovo - Deve Bair, including the following sections: Kumanovo – Beljakovce (30.8 km); Beljakovce - Kriva Palanka (34 km); Kriva Palanka – Deve Bair – Border with Bulgaria (24 km); Kicevo - Skopje (103 km)	North Macedonia
54	Road	Orient/East-Med Corridor: North Macedonia – Bulgaria CVIII Road Interconnection, Kriva Palanka – Deve Bair Section, involving rehabilitation and expansion to three lanes of a 13.2 km-long single two-lane carriageway road section on the Orient/East-Med Core Network (Corridor VIII) in North Macedonia, from the town of Kriva Palanka to the Deve Bair border crossing point with Bulgaria	North Macedonia
55	Road	Construction of A2 Motorway, section Kicevo - Ohrid	North Macedonia



EMTM REFERENCE SCENARIO: SERBIA

NUMBER	MODE	PROJECT	COUNTRY
56	Rail	Novi Sad-Subotica-state border with Hungary (Kelebija)	Serbia
57	Road	Corridor X (E-75 & E-80) Motorway: 98 km-long section on E80 between Nis and the Serbian border with Bulgaria at Dimitrovgrad (Corridor Xc)	Serbia
58	Road	Corridor X (E-75 & E-80) Motorway: 75 km-long section on E75 between Grabovnica and Levosoje (Corridor X) leading to the border with North Macedonia	Serbia
59	Road	Construction of the Belgrade bypass	Serbia
60	Road	Construction of the road Kragujevac - Batočina	Serbia
61	Road	Construction of the A5 Motorway section between Pojate and Preljina (Morava Corridor) (about 109.4 km)	Serbia
62	Road	Construction of the A2 Motorway section between Preljina and Požega (31 km)	Serbia
63	Road	Construction of the 48 km Fruskogorski Corridor Ruma and Novi Sad	Serbia
64	IWW	Infrastructure upgrade, reconstruction and improvement of the Sava River in Serbia (Labelled 32)	Serbia
65	IWW	River training and dredging works on the following critical sectors of the river Danube between Backa Palanca and Belgrade: Susek, Futog, Cortanovci, Arankina ada, Beska, Preliv	Serbia



EMTM REFERENCE SCENARIO: SLOVENIA

NUMBER	MODE	PROJECT	COUNTRY
66	Rail	Construction of the 2nd track Divača-Koper (Labelled 14)	Slovenia
67	Rail	Upgrading of railway line Poljčane - Slovenska Bistrica, including railway stations Poljčane and Slovenska Bistrica	Slovenia
68	Rail	Upgrading works to the D4 maximum weight standard (22,5 t/axis without speed constraint) on the Zidani Most – Celje railway line	Slovenia
69	Rail	Rehabilitation of the existing line between Maribor-Šentilj-and the state border with Austria including a new tunnel and viaduct	Slovenia
70	Rail	Upgrading and reconstruction of railway line Zidani Most-Dobova	Slovenia
71	Road	Brezovica/Dragomer new interconnecting junction between the existing motorway and the regional road network	Slovenia
72	Road	Karawanken Tunnel 2nd tube construction	Slovenia

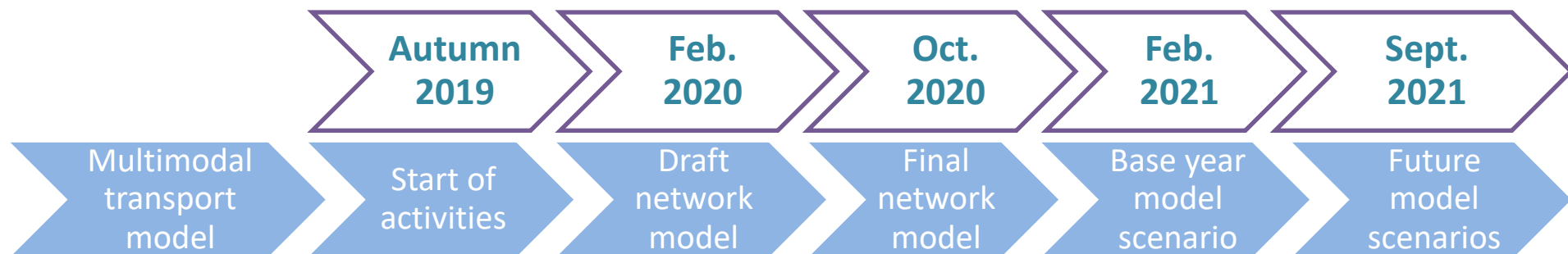


Implementation of the EUSAIR Multimodal Transport Model

Milestones



EMTM ELABORATION MILESTONES








Upcoming Task	Deadline
Base year model	
Trade and demand data processing and analysis	Autumn2020 -Winter 2021
Finalise demand model	Winter 2021
Presentation of the base year model at coming events of the TSG2 Transport Subgroup	Spring 2021
Future scenarios	
Finalise reference and future network model scenarios	Autumn 2020-Spring 2021
Elaborate demand forecasts	Spring 2021
Finalise future model scenarios	Summer 2021
Presentation of the future scenarios at coming events of the TSG2 Transport Subgroup	Autumn 2021



***Presentation prepared by Tplan Consulting S.r.l.
and FIT Consulting S.r.l.***

www.tplan.consulting

www.fitconsulting.it

 www.adriatic-ionian.eu
 eusair.point.svrk@gov.si
 Eusair Facility Point
 @EusairPoint
 EUSAIR Facility Point

