



Ministry of Transport and Maritime Affairs

INFRASTRUCTURE IN A FUNCTION OF SUSTAINABLE DEVELOPMENT

ITALY & MONTENEGRO: BUILDING TOGETHER

PODGORICA, SEPTEMBER, 2016

CONTENT OF PRESENTATION

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- ❖ SEETO COMPREHENSIVE AND CORE NETWORK
- ❖ EXTENSION OF THE TEN-T CORRIDORS
- ❖ MONTENEGRO SINGLE PROJECT PIPELINE
- ❖ MONTENEGRO ROAD PROJECTS



TRANSPORT DEVELOPMENT STRATEGY

- ❖ INCREASE OF SAFETY AND SECURITY IN TRANSPORT
- ❖ INCREASE OF THE QUALITY OF TRANSPORT SERVICES
- ❖ INTEGRATION OF THE TRANSPORT SYSTEM OF MONTENEGRO INTO TRANS-EUROPEAN TRANSPORT NETWORK
- ❖ DEVELOPMENT OF TRANSPORT INFRASTRUCTURE IN LINE WITH NEEDS OF ECONOMIC DEVELOPMENT
- ❖ PROTECTION OF ENVIRONMENT IN DESIGNING AND FUNCTIONING OF THE TRANSPORT
- ❖ LIBERALIZATION OF MARKET



SEETO GENERAL FRAMEWORK

- ❖ MEMORANDUM OF UNDERSTANDING FOR THE DEVELOPMENT OF THE CORE REGIONAL TRANSPORT NETWORK (MOU) SIGNED ON JUNE 11, 2004 BY THE GOVERNMENTS OF ALBANIA, BOSNIA AND HERZEGOVINA, CROATIA, THE FORMER YUGOSLAV REPUBLIC OF MACEDONIA, MONTENEGRO AND SERBIA AND THE UNITED NATIONS MISSION IN KOSOVO AND THE EUROPEAN COMMISSION



<http://www.seetoint.org/>



SEETO COMPREHENSIVE AND CORE NETWORK

- ❖ UMBRELLA PROCESS, BERLIN MEETING OF PMs WB6, AUGUST 2014
- ❖ CREATION OF SEETO CORE NETWORK ALINED WITH TEN-T CORE NETWORK
- ❖ MONTENEGRO PROPOSAL FOR CORE NETWORK: **SEETO ROAD ROUTE 4 BAR-BOLJARE MOTORWAY, SEETO ROAD ROUTE 1 ADRIATIC-IONIAN CORRIDOR, SEETO RAILWAY ROUT 4 BAR-BORDER WITH R SERBIA, SEETO RAILWAY ROUTE 2 PODGORICA-BORDER WITH R ALBANIA, PORT OF BAR, CAPITAL'S AIRPORT PODGORICA**
- ❖ PREPARATION OF SINGLE SECTORAL PROJECTS PIPELINE
- ❖ EU CO-FINANCING OF 1 BILLION EUR IN THE NEXT COUPLE OF YEARS



EXTENSION OF THE TEN-T CORRIDORS

- ORIENT/EAST-MED CORRIDOR

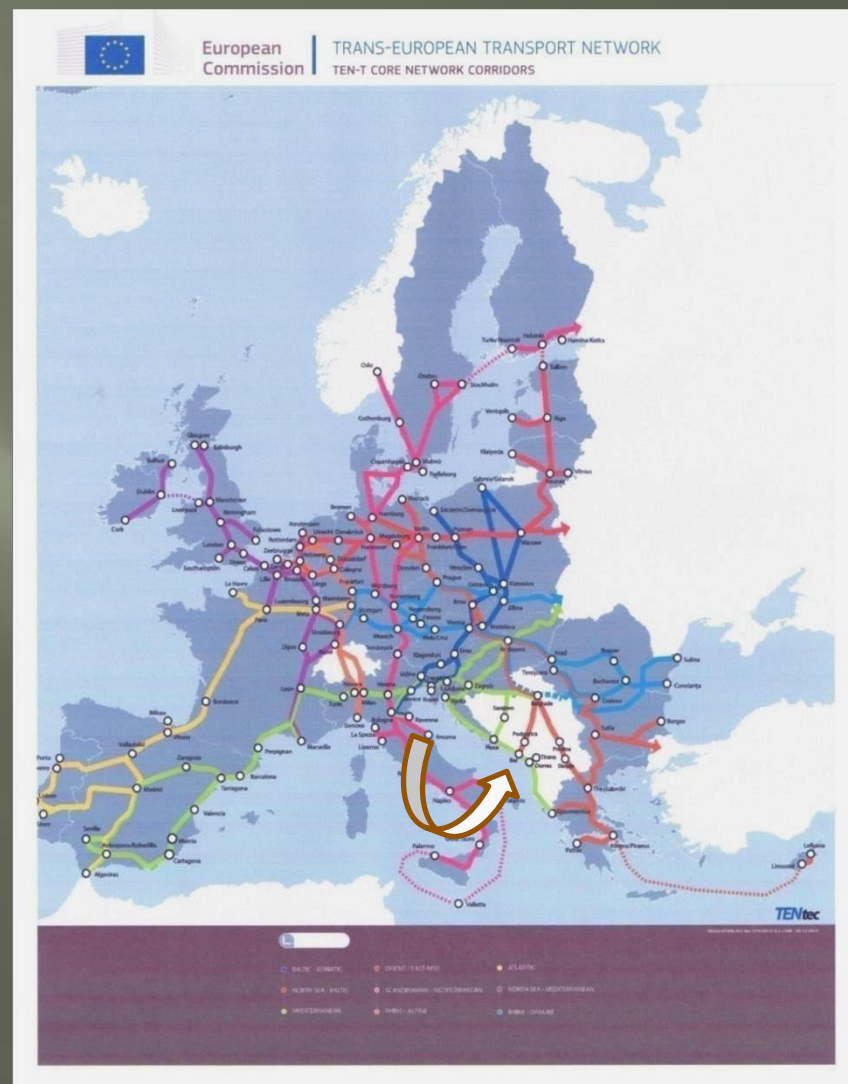
http://ec.europa.eu/transport/themes/infrastructure/ten-t-guidelines/corridors/orient-eastmed_en.htm

- MEDITERRANEAN CORRIDOR

http://ec.europa.eu/transport/themes/infrastructure/ten-t-guidelines/corridors/med_en.htm

- RHINE-DANUBE CORRIDOR

http://ec.europa.eu/transport/themes/infrastructure/ten-t-guidelines/corridors/rhine-dan_en.htm



MONTENEGRO SINGLE PROJECT PIPELINE



MONTENEGRO

SECRETARIAT FOR DEVELOPMENT PROJECTS

ENERGY



1. Hydropower development and management of water catchment areas of rivers port
2. ITAFI-MNE-SER-BOS energy interconnection - Montenegro part
3. Ionian Adriatic Pipeline
4. Hydropower plants on river Komarnica
5. Hydropower plants on river Morača
6. Energy efficiency improvement in public buildings
7. Project of improvement of quality of supply of tourist regions:
 - A. Peninsula LUSTICA
 - B. HERCEG NOVI
 - C. DUBROVNIK
 - D. BOKA KOTORSKA
 - E. BUDVA
 - F. ULCINJ
8. Study on the technical conditions for the connection of renewable energy sources to the grid and the impact on the operation of the power system
9. Construction of 35 kV OHL "Andrijevica - Gornje"
10. Regularization of Informal Settlements in Montenegro

SINGLE PROJECT PIPELINE (SPP)

TRANSPORT



1. Reconstruction and Modernization Railway Line (Belgrade) - Vrbica - Bar
2. Route 4: Highway Bar-Boljare, section Mateševo - Andrijevica
3. Coastal variant of Adriatic-Ionian Motorway, Expressway along coast of Montenegro
4. Route 4: Highway Bar-Boljare, Bypass Podgorica (Srnokovac - Toleš - Farmaci)
5. Route 4: Highway Bar-Boljare, section Djurmanci - Farmaci
6. Route 4: Highway Bar-Boljare, section Andrijevica - Boljare
7. Route 2: Reconstruction and Modernization Railway Line Podgorica - Tuzi - Cross Border Albania
8. Vessel traffic monitoring, information and managing system, phase II (VTMS)
9. Development of Airport - Podgorica

ENVIRONMENT



1. Wastewater treatment plant + wastewater collection Phase I, Podgorica
2. River bed regulation of the Lim river, Barane
3. River bed reg. of the Cetina river, Plovlja
4. Waste water treatment plant, Bijelo Polje
5. Waste water treatment system, Rožaje
6. Wastewater collection Phase II, Podgorica
7. Recycling center (MRF) Molar, Bar
8. Wastewater treatment plant + wastewater collection Phase I + water supply Phase I, Cetina
9. 4 recycling yards, Podgorica
10. Construction of the plant for waste water treatment and sewage network, Plav
11. Construction of wastewater treatment, segments of water and sewage network, Nikšić
12. Construction of the sewage system, Ulcinj
13. Regulation of atmospheric and sewage system in Djepane 1 and 2, Ulcinj
14. Valorization of plastic materials, Podgorica
15. Improvement of the Wastewater Management System, Mojkovac
16. Construction of the Fire station, Pljevlja
17. Construction of the sewage system in Zabljak
18. Recycling yard / transfer station, Plavine
19. Recycling yard, Kolacin
20. Construction of primary sewage network in the city area of Ulcinj
21. Recycling yard / transfer station in Savnik
22. Construction of a recycling yard, rehabilitation of former waste disposal sites and a transfer station in Plav
23. Landslide over the river and solving hydrological problems in the basin of Biogradsko lake and the river Biogradsko rijeka
24. Plant for processing of drinking water, Ulcinj
25. Improvement of the water supply system in the Municipality of Plav
26. Construction of the transfer station, Pljevlja
27. Construction of the main supply of raw water Plovlja-Plovlja with ozone pipeline, Plovlja
28. Construction and reconstruction of facilities for purification of drinking water Plav, Breznica and Jagodica, Plavija
29. Pipeline Vrelo Blatice (Majstorovica) - Reservoir Pohorica, Bijelo Polje
30. Rehabilitation of the Main pipes in Cetinje

SOCIAL



1. Reconstruction of premises for the IRL laboratory
2. Improving of courts efficiency: 1) Adaptation of the courts: High Court in Bijelo Polje, Basic Court in Podgorica, Basic Court in Nikšić; 2) Reconstruction of court buildings of Basic courts in Astor, Podgorica, Nikšić, BP and Barane; 3) Improving efficiency - one-stop shops
3. Construction of prisons in Bijelo Polje
4. Reconstruction of the energy block - Clinic center of Montenegro
5. Treatment of medical waste water - Clinic center of Montenegro
6. Energy Efficiency Program in healthcare facilities
7. The use of renewable energy sources in the electricity supply, Clinic center of Montenegro
8. Reconstruction of premises for the operation of the Regional Institute for Tropical Diseases
9. Infrastructure reconstruction in the judicial institutions that use the PRIS in Montenegro
10. Higher education: 1) Reconstruction of the Old Residence Hall facility, Podgorica; 2) Construction of the new students residence hall facility, Cetinje; 3) Construction of facility for the needs of Music Academy, Cetinje; 4) Construction of facility for the needs of Drama Academy in Cetinje
11. Gymnasium: 1) Construction of new school facility - New gymnasium, Podgorica; 2) Construction of new school facility - New gymnasium, Ulcinj; 3) Construction of new school facility - New gymnasium, Bar
12. Elementary education: 1) Construction of Public elementary school "Dusan Novak" and Public School for Elementary Music Education, Bijelo Polje; 2) Construction of Elementary school in Tisak, Podgorica; 3) Upgrading of Public elementary school "23 May", Rožaje; 4) Construction of the sports hall - Public elementary school "Lazarević poručnikovim odred", Cetinje; 5) Construction of Elementary school in Zabljak, Podgorica
13. Preschool education: 1) Construction of Children's Kindergarten and nursery, Rožaje; 2) Reconstruction and superstructure upgrade - Children's Kindergarten and nursery in Rožaje; 3) Upgrading and building of superstructure - Children's Kindergarten (Dječji vrtić) in Podgorica; 4) Upgrading of Children's Kindergarten and nursery on Nikša od Ravna street in Podgorica; 5) Construction of Children's Kindergarten and nursery, Bijelo Polje
14. Center of the State Prosecutor's Office building
15. Construction of the Supreme court building



MONTENEGRO ROAD PROJECTS

CORE NETWORK 2030

- ❖ **BAR-BOLJARE MOTORWAY:**
- ❖ MATEŠEVO-ANDRIJEVICA
- ❖ PODGORICA BY-PASS (SMOKOVAC-TOLOŠI-FARMACI)
- ❖ ĐURMANI-FARMACI
- ❖ ANRIJEVICA-BOLJARE (BORDER WITH R SERBIA)

- ❖ **COASTAL VARIANT OF ADRIATIC-IONIAN CORRIDOR /EXPRESSWAY ALONG MONTENEGRIN COAST**
- ❖ BY-PASSES HERCEG NOVI, TIVAT, BUDVA and BAR
- ❖ VERIGE BRIDGE



BAR-BOLJARE MOTORWAY

No.	SECTION	LENGHT	CONSTRUCTION PERIOD	CONSTRUCTION COSTS*
1.	Mateševo - Andrijevisa	21 km	3 years	273.000.000,00 EUR
2.	By-pass Podgorica (Smokovac-Tološi -Farmaci)	18 km	3 years	215.853.659,00 EUR
3.	Andrijevisa - Boljare	58 km	5 years	677.000.000,00 EUR
4.	Đurmani - Farmaci	31,2 km	4 years	374.146.350,00 EUR
	TOTAL	128,2 km		1.540.000.009,00 EUR

•FINANCING MODEL: PPP / CONCESSIONS / HYBRID MODEL



*An assessment relates only to the cost of construction and does not include other costs: preparation of documentation, expropriation, supervision etc.

EXPRESSWAY ALONG MONTENEGRIN COAST



EXPRESSWAY ALONG MONTENEGRIN COAST

A CONCEPT DESIGN AND PREVIOUS FEASIBILITY STUDY WAS PREPARED



TRAFFIC-TECHNICAL ELEMENTS

- THE LENGTH OF THE TRAFFIC ARTERY 108 km
- CALCULATED SPEED 80 km/h
- MIN RADIUS $R_{min}=250$ m
- MAX LEVEL INCLINATION 7%
- TRAFFIC LINES 4 X 3.25 m
- Approx. COSTS 10,5 MILLION EUR/km
- **FINANCING MODEL:**
PPP/CONCESSIONS/HYBRID
MODEL

EXPRESSWAY ALONG MONTENEGRIN COAST

SECTIONS of the EXPRESSWAY ALONG MONTENEGRIN COAST :

- ❖ **CROATIAN BORDER- BIJELA, approx. 17 km**
- ❖ LOT 1 CROATIAN BORDER - HERCEG NOVI, approx. 8 km (BY PASS HERCEG NOVI)
- ❖ LOT 2 HERCEG NOVI – BIJELA, approx. 9 km
- ❖ **VERIGE BRIDGE ACROSS BOKA BAY (incl. ACCESS ROADS TO THE EXISTING MAGISTRAL ROAD and 1 VIADUCT) 2,981 km**
- ❖ **BY PASS TIVAT** (EXPRESSWAY ROUTE 4,64 km and 2,551 km ACCESS ROADS TO THE EXISTING MAGISTRAL ROAD); **total: 7.191 km**
- ❖ **TIVAT – TUNNEL SOZINA SECTION approx. 47 km**
- ❖ LOT 1 BY PASS BUDVA approx. 14 km
- ❖ **BY PASS BAR (TUNNEL SOZINA – BAR SECTION) approx. 10 km**
- ❖ **BAR – ALBANIAN BORDER approx. 30 km**



Government of Montenegro

Ministry of Transport and Maritime Affairs

QUESTIONS?



Government of Montenegro

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THANK YOU!

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