Western Balkans forum: Environmental / Climate achievements and future challenges

Infrastructure resilience

17-18 November 2022, Vienna, Austria

Nedim Begovic, Green/Multimodal/Innovative Transport Solutions Desk Officer
Nerejda Hoxha, Road Coordinator
Content

Climate change
Policy framework
Roadmap
Vision and objectives
Way forward
The Transport Community is an international organisation in the field of mobility and transport, consisting of 33 participants – the entire EU and the six Western Balkans regional partners.

Working on the integration of Western Balkans’ transport markets into the EU, by assisting the six Western Balkans partners to adopt and implement the EU legislation in the field of transport and by supporting projects that are connecting Western Balkans regional partners among themselves and with the EU.
SSMS WB Objectives & Roadmap

• Flagship 1 - boosting uptake of zero-emission vehicles, renewable & low-carbon fuels and related infrastructure
• Flagship 2 - creating zero-emission airports and ports
• Flagship 3 - making interurban and urban mobility more sustainable and healthy
• Flagship 4 - greening freight transport
• Flagship 5 - pricing carbon and providing better incentives for users

• Flagship 6 - making connected and automated multimodal mobility a reality
• Flagship 7 - innovation, data and AI for smart mobility

• Flagship 8 – working towards the single market
• Flagship 9 - making mobility fair and just for all
• Flagship 10 - enhancing transport safety and security

OBJECTIVES:
• BASED ON 10 EU FLAGSHIPS AND 3 OBJECTIVES
• GAP ANALYSIS OF CURRENT SITUATION
• IMMEDIATE AND MID-TERM ACTIONS
## Sustainable and Smart Mobility Roadmap

### Objective
Flagship 8 – working towards the single market

### Area
- Resilient Mobility
- Flagship 8 – working towards the single market

### Action
- Capacity building for administration on green and digital transformation of transport
- Development of cost effectiveness analysis of Sustainable and Smart Mobility Strategy Western Balkans Perspective and elaboration of detailed action plans per each Regional Party
- Adopting guidelines to assess climate change and natural hazards of road network
- Developing and implementing climate resilience plans for IFPs transport networks
- Establishing efficient road maintenance through multiannual road maintenance plans and Road Asset Management Systems
- Electrification of rail core network and implementation of Flagship 1, 2, 3.
- Reforming railway sector through transposition and implementation of Market opening, passenger rights, interoperability, border crossings/common crossings legislation.
- Reviewing transport relevant State aid rules
- Reviewing transport relevant State aid rules
- Improving road safety management, enabling safer infrastructure a better protection of road users

### Type of intervention
- ?
- S
- L
- S
- L
- S
- P, J
- P, J
- P
- P

### Responsible authority
- TCT Secretariat organisation
- TCT Secretariat
- TCT Secretariat to support MoT
- Ministries in charge of Transport, road authorities, rail infrastructure managers, TCT Secretariat coordinating role
- TCT Secretariat coordinating role
- Ministry in charge of Transport, infrastructure managers
- Ministry in charge of Transport, railway authorities, railway companies
- MoT, TCT Secretariat and EU support
- MoT, TCT Secretariat and EU support
- Ministries in charge of Transport, Road safety agencies, TCT coordinating role
- Ministries in charge of Transport, Road safety agencies
- Ministries in charge of Transport, Road safety agencies

### Start date
- 2022
- 2022
- 2022
- 2022
- 2022
- 2022
- 2021-2030
- 2021
- 2021
- 2021

### End date
- 2024
- 2023
- 2022
- 2024
- 2022
- 2023
- 2022
- 2022
- 2025
- 2025
- 2022
- 2022
Road Action Plan

- Adoption of Multiannual Road maintenance plans
- Adoption of Intelligent Transport Systems (ITS) strategy
- Setting up of Road Asset Management System
- Approximation of EU Acquis on ITS and Electronic tolling
- Regional Guidelines to assess climate resilience
- Boosting the uptake of zero emission vehicles infrastructure
- Climate proofing of road network
- Establishing regional network of Road Authorities
CLIMAPROOF & Regional Resilience Strategy

• Regional strategy for climate resilient infrastructure development, followed with an action plan identifying concrete climate proofing measures, including green infrastructure;

• Enhanced national capacities for replicating EU best practices

• Building on the results of CLIMAPROOF project
  • Climate and weather patterns
  • Climate projections
  • Building on institutional capacity built and framework
Improving climate resilience of TEN-T road and rail networks in WB will encompass:

Task 1: Undertake vulnerability analysis of TEN – T

Task 2: Carry out a criticality assessment of TEN – T

Task 3: Identification and prioritisation of adaptation measures

Task 4: Institutional support
Task 1: Undertake vulnerability analysis of TEN -T

The Vulnerability Analysis shall non-restrictively incorporate the following distinct steps:

- Undertake the sensitivity analysis
- Undertake the exposure analysis
- Vulnerability analysis – the result of this step shall combine the outcome of sensitivity and exposure analysis
- Thematic maps representing the spatial distribution of the current and future vulnerability levels shall be produced using GIS separately for all climate-related hazards, as well as for all hazards combined.
The criticality assessment shall non restrictively incorporate the following distinct steps:

- Identify the sections, which if not operational would cause the biggest negative impacts.
- Combine the results of step 1 and the spatial distribution of vulnerabilities from Task 1 to identify the most critical sections of road and rail networks.
- Using GIS, prepare thematic maps for current and future criticality of the road and rail networks.
- Prepare a prioritisation list of road/rail sections to form a potential pipeline of projects.
Task 3: Identification and prioritisation of adaptation measures

Task 3 shall non restrictively incorporate the following distinct steps:

• Prepare a catalogue of potential adaptation measures needed to avoid or reduce the exposure to climate-related hazards for road and rail most critical sections;

• Prepare a rough cost estimates for each of the proposed measures individually based on the similar projects and historical data.
Task 4: Institutional support

- Organization of two (2) one (1) day training event for the public servants of the relevant authorities from the region, in road and rail
- On the topics concerning climate resilience assessment and adaptation measures, as well as EU and international best practices
Improving climate resilience of TEN-T road and rail networks in WB

• Launched TA on improving climate resilience and adaptation measures in the indicative extension of TEN-T road and rail networks in Western Balkans

• Deadline for application 28 November 2022

• Duration 11 months from commencement
Thank you for your attention