Technical Assistance for the Deployment of Smart and Sustainable Mobility in the Western Balkans

CONNECTA-TRA-CRM-REG-MOB-07

9th Road Technical Committee
05/10/2022
Belgrade
Project Synopsys

- **Project title:** Technical Assistance to Connectivity in the Western Balkans (CONNECTA)
- **Sub-project title:** Technical Assistance for the Deployment of Smart and Sustainable Mobility in the Western Balkans
- **Contracting Authority:** European Commission – Directorate-General for Neighborhood Enlargement Negotiations (DG NEAR)
- **Area:** Connectivity Transport Reform Measures
- **Project followed by:** Transport Community Permanent Secretariat
- **Project implemented by:** Mott MacDonald Ltd. (UK) in Consortium with WYG, CeS COWI, TRENECON, SYSTEMA
- **Responsible CONNECTA Transport Key expert:** Giorgos Xanthakos
- **Project Manager:** Danijel Vučković
- **Project team:** 29 experts
- **Project duration:** 16 months (Mar 2022 – June 2023)
Purpose & Objectives & Expected Results

**Purpose/Scope of TA**

Development of **strategic documentation** needed for the deployment of smart and sustainable mobility in the Western Balkans

**Objectives**

The main objective is to enhance mobility by focusing on **sustainability and smart transport in the region**, especially along indicative extensions of TEN-T road network in Western Balkans.

The **specific objective of this TA is to**:

- Component 1 - Assess impact of the Sustainable and Smart Mobility Strategy for the Western Balkans and
- Component 2 - Develop strategic framework for deployment of e-charging infrastructure in the Western Balkans

**Expected results**

Component 1

- Baseline scenario
- Different impact scenarios
- **Action Plans** including targets for each Regional Party

Component 2

- Current state of play/plans for deployment of e-charging stations
- Proposal on e-charging infrastructure needed to boost electric vehicle demand up to **2030, 2040, 2050**
- Contractual/Business models
- **Roadmap** for each regional partner on extending the e-charging stations
# Updated Workplan

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<td>Preparation of Action Plans and national targets for each Regional Party</td>
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<td>Proposal on e-charging infrastructure on the TEN-T network in the WB needed to boost electric vehicle demand up to 2030, 2040, 2050</td>
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<td>Preparation of a Readmap for e-charging stations, for each Regional Partner along the indicative extension of the TEN-T in the WB</td>
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Sustainable, smart, and resilient mobility

In practical terms, sustainable, smart, and resilient mobility in Western Balkans by 2050 means:

• **zero-emission vehicles** and available **alternative fuels infrastructure** on Western Balkans roads, railways, ports, and airports.

• more travellers using fast railway connections between regional urban areas across a wider region.

• integrated multimodal climate neutral solutions **in the cities**.

• efficient, punctual, and competitive rail and waterborne freight transportation.

• More reliable information to users and decision makers on the environmental impact of transport.

• seamless travel across the region using sustainable mobility choices, including **single tickets for multimodal transport**.

• Digitally connected supply chains balanced **across modes**, and electronic data exchange without delays.

• Safe and fast travel, and a quality network ensured by TEN-T standards and services, enabling resilience to climate change effects (such as floods).

• a single interoperable transport market without physical and non-physical barriers for doing business and travel.

• a workforce adjusted to the changing digital environment with high level of protection of worker`s rights.
Targets

1) **By 2030**, at least 10 per cent of cars and 5 per cent of lorries in operation, to be zero-emission.

2) **By 2050**, 90 per cent of all cars, vans, buses as well as new heavy-duty vehicles to be zero-emission.

3) From **2022**, all newly constructed railway lines to be electrified.

4) By **2050**, greenhouse gases emissions from waterborne transport to be largely eliminated and airports to be made zero-emission nodes.

5) By **2023**, InterCity Rail transport between capitals in the Western Balkans, on existing connections, to be re-established.

6) By **2025**, the Regional Rail Market to be opened.

7) By **2030**, rail freight traffic to increase by 20 percent. This to double by 2050.

8) By **2030**, transport by inland waterways and short sea shipping to increase by 15 per cent. This to increase by 30 percent by 2050.

9) By **2035**, scheduled collective travel under 500 km, within the Western Balkans, to be carbon-neutral.

10) By **2035**, the Core Rail Network to be compliant with TEN-T standards.

11) By **2035**, regional capitals and major urban nodes to be transport emission free.

12) By **2035**, rail and waterborne-based intermodal transport to compete on equal footing with road-only transport in the Western Balkans.

13) By **2050**, All external costs of transport within the Western Balkans to be covered by the transport users.

14) By **2035**, seamless multimodal passenger transport to be facilitated by integrated electronic ticketing and freight transport to be fully digitalised.

15) By **2040**, automated mobility to be deployed on a large scale.

16) By **2035**, A multimodal Trans-European Transport Network equipped for sustainable and smart transport with high-speed connectivity to be operational for the core network, and, by 2050 for the comprehensive network.

17) By **2050**, the death toll for all modes of transport in the Western Balkans to be close to zero.

18) By **2050**, all process related to transport of dangerous goods (production, packing), as well as transport per se to be safe, eco-friendly, and more sustainable.
Component 1 - Assess impact of the SSM Strategy for the WB

- Methodologies for the implementation of component stages, developed
- Assessment of baseline situation in the Western Balkans in transport, developed but not submitted
- Assessment of Business As Usual scenario – including transport modelling and GHG assessment, on going
- Impact assessment (qualitative and where possible quantitative) of Flagship Actions included in the Strategy for Sustainable and Smart Mobility in the Western Balkans (SSM), developed more than 50%. Set of activities, updated SSM Action Plan, is under development for implementation of all measures until 2030, 2040, 2050, on going
- Multi-criteria analysis of the Flagship actions (69 actions in 10 areas) to prioritize key Actions and needed activities, definition of weighing criteria and development of simplified CBAs, on going
- EV penetration modelling scenarios: Business As Usual, Do-something(s) – moderate, Decarbonisation scenarios (targets)
- Shifting of transport to the green transport modes
- Energy consumption and GHG emissions modelling
Component 2 - Strategic framework for e-charging infrastructure in WB

- D1 “Assessment of the current state of play/plans for deployment of e-charging stations along the extension of TEN-T network in the Western Balkans”: Second submission to TCPS: Submitted on 08 August 2022. Feedback received only from the TCPS and PE Roads of Serbia and our team addressed those comments but not yet submitted to the TCPS.

- D2 “Proposal on e-charging infrastructure on the TEN-T network in the Western Balkans needed to boost electric vehicle demand up to 2030, 2040, 2050 “: Postponed to mid-December 2022 due to the replacement of the transport planner
  - Review of trends in identification of EVCS locations in EU and internationally: 1st draft ready
  - Transport model development: On going
  - Identification of additional EVCS locations (2030, 2040, 2050): Not started (Methodology: under development)
  - Assessment of impacts (from the development of EVCS): Methodology prepared and the energy consumption and GHG emission model developed, and the outputs from the transport modeling need to be incorporated once finalized.
Component 2 - Strategic framework for e-charging infrastructure in WB

• D3 “Identification of the potential contractual/business models (public, private, public-private partnership)”: End of December 2022
  • Data collection (on: business models used/foreseen per RP and internationally; EVCS CAPEX and OPEX per RP): On going
  • Based on the so far collected data the ToC of C2/D3 is proposed to be modified (to reduce repetitions)
  • Methodology for cost assessment of potential business models at 2030, 2040, 2050: On going
  • Partial drafting of D3: Started (on going)

• D4 “Preparation of a Roadmap for each Regional Party on extending the e-charging stations on the extension of the TEN-T network in the Western Balkans”: End of February 2022

• D5 “Report of Component 2 - Strategic framework for deployment of e-charging infrastructure in the Western Balkans”: End of March 2022
Contact information

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Questions and Discussions

Any comments/suggestions?