CONNECTA

Technical Assistance for preparation of national ITS strategy for Bosnia and Herzegovina, Kosovo* (all modes), Albania (railway and maritime) and Montenegro (railway) and deployment of road traffic management centers in Bosnia Herzegovina and Kosovo

CONNECTA-TRA-CRM-REG-MOB-07

9th Road Technical Committee

05/10/2022

Belgrade

*This designation is without prejudice to positions on status, and is in line with UNSCR 1244 and the ICJ Opinion

on the Kosovo Declaration of Independence.

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Project Synopsys

- **Project title:** Technical Assistance to Connectivity in the Western Balkans (CONNECTA)

- **Sub-project title:** Technical Assistance for preparation of national ITS strategy for Bosnia and Herzegovina, Kosovo* (all modes), Albania (railway and maritime) and Montenegro (railway) and deployment of road traffic management centers in Bosnia Herzegovina and Kosovo

- **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:** Emmanouil (Manolis) Zafeiris

- **Project team:** 16 experts

- **Project duration:** 13 months (Apr 2022 – May 2023)

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Purpose & Objectives & Expected Results

Purpose/Scope of TA

Developing **ITS Strategies concerning specific modes of Transport** in four (4) Regional Partners of Western Balkans (Bosnia Herzegovina, Kosovo, Albania and Montenegro) as well as contributing to the **deployment of road traffic management centers** in two (2) Regional Partners (Bosnia Herzegovina and Kosovo)

Objectives

The **overall objective** is to ensure harmonised national ITS developments in line with the regional and European principles

The **specific objectives of this TA are to** :

- Component 1 -Preparing national ITS strategy for Bosnia and Herzegovina, Kosovo* (all modes), Albania (railway and maritime) and Montenegro (railway).

- Component 2 – Developing an operational concept for Road Traffic Management Centers in Bosnia and Herzegovina and Kosovo

Purpose & Objectives & Expected Results

Expected results

The results to be achieved are:

➢ **Component 1**

- Assessing the *current situation* in terms of policy framework, legal approximation as per Annex I of Transport Community Treaty, institutional and technological framework including the Legal, Institutional and Technology Context.

- Developing the *vision* to achieve harmonized national ITS Development and *strategic objectives* related to the operation, maintenance and planning of new infrastructure.

- Developing *Measures* for achieving the strategic objectives and implementation of roadmap and monitoring indicators

➢ **Component 2**

- Carrying out a *needs assessment* as per the current and planned developments per each Regional Partner

- Preparing the *functional requirements* and *system concept design* for each Regional Partner including the main ITS components (Data collection, storage and processing, communication medium and interfaces)

- Preparing a *cost breakdown* including operation and maintenance per each Regional Partner

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Project title:	Technical Assistance for preparation of national ITS strategy for Bosnia and Herzegovina, Kosovo* (all modes), Albania (railway and maritime) and Montenegro (railway) and deployment of road traffic management centers in Bosnia Herzegovina and Kosovo		
Project number:	CONNECTA-TRA-CRM-REG-ITS-07		
Country:	Regional	Key Expert:	Giorgos Xanthakos
The Lenders (IFIs):	NA	Date:	28 February 2022
TA service:	Strategic Study	Duration:	13 months
Promoter/Beneficiary:	TCPS	Budget (indicative):	630.000

Tentative Implementation Schedule

Task TOR		Feb-22	Mar-22	Apr-22	May-22	Jun-22	July-22	Aug-22	Sep-22	Oct-22	Nov-22	Dec-22	Jan-23	Feb-23	Mar-23	Apr-23
	Mobilization - Inception period (start on March 1, 2022)															
	INCEPTION REPORT															
1	Assessment of the current situation in terms of policy framework, legal approximation as per Annex I of Transport Community Treaty, institutional and technological framework															
2	Development of the vision and strategic objectives															
3	Development of Measures for achieving the strategic objectives and implementation of roadmap and monitoring indicators															
	Component 1 – Technical Assistance to prepare national ITS strategy for Bosnia and Herzegovina, Kosovo* (all modes), Albania (railway and maritime) and Montenegro (railway)															
4	Carrying out a needs assessment as per the current and planned developments per each Regional Partner															
5	Preparing the functional requirements and system concept design for each Regional Partner															
6	Preparing a cost breakdown including operation and maintenance per each Regional Partner															
	Component 2 – Technical Assistance to for the development of operational concept for Road Traffic Management Center in Bosnia and Herzegovina and Kosovo															
	Preparation of Draft Final Report (consolidation of key findings from all activities)															
	DRAFT FINAL REPORT															
	Review and comments by stakeholders															
	Finalization of Report (incorporation of comments)															
	FINAL REPORT															
	Approval by Contracting Authority															
	Progress Reports															

Current project status

- Assessment of the current situation in terms of policy framework, legal approximation (as per Annex I of Transport Community Treaty) and institutional and technological framework

- Current situation / Existing Gaps is the sum of three elements:

  ➢ The findings of the previous regional project related to the ITS Strategic Framework in all the Western Balkans

  ➢ New requirements as per the updated Legal Framework

  ➢ New needs resulting from the modifications at the institutional and technological framework

- Roadmaps exist for all RPs and the progress of the implementation is easily identified

- The legal framework has not been significantly modified except for the Port/Marine mode

- Focal Points from the Beneficiaries have been identified

Current project status

- Questionnaires have been prepared and delivered in order for the current situation /progress to be identified (see next slides)

- Site Visits have been performed to: Bosnia and Herzegovina (first part), Kosovo and Albania

- Site Visits to be performed to: Bosnia and Herzegovina (second part – 7-8 October 2022) and Montenegro (second week of October 2022)

- Other Projects regarding IT Strategies in the Region (Serbia and North Macedonia) are considered

Table 1 Roads/ ITS Roadmap

Field of intervention	Action	Object ive	Sub-actions/ Details	2022 Status		
				Status	Planned till (if not already fully transposed)	Comments[1]
Institutional – Legal/ Cross-modal and ICT	Developing a clear Strategy and Action Plan for ITS deployment	Policy Making	Elaboration of an ITS Strategy and Action Plan according to the user needs and aligned with the Regional ITS Strategic Framework			
	Transposition of EU relevant legislation	Compl etion of Instituti onal Frame work Policy Making	Directive 2010/40/EU - Framework for the deployment of Intelligent Transport Systems in the field of road transport and for interfaces with other transport modes			
			Directive 98/34/EC - Establishment of a procedure for the provision of information in the field of technical standards and regulations and of rules on Information Society services			
			Directive 2007/2/EC - Establishment of spatial information infrastructure for integrated access to travel data			
			Directive 2016/1148/EU - Network Information Security with mandatory implementation for operators of essential services in the transport areas			
			General Data Protection Regulation (GDPR) 2016/679/EU			
			e-IDAS Regulation 2014/910/EU accompanying implementing acts			

[1] Indicate laws, by-laws and any other actions/info

Field of intervention	Action	Objective	Sub-actions/ Details	2022 Status		
				Status	Planned till (if not already fully transposed)	Comments[1]
			Directive (EU) 2018/1972 of the European Parliament and of the Council of 11 December 2018 establishing the European Electronic Communications Code			
Institutional/ Road	Transposition of EU relevant legislation	Completion of Institutional Framework Policy Making	Directive 2004/52/EC - Interoperability of electronic road toll systems			
			Directive 2008/96/EC - Road Infrastructure Safety Management			
			Delegated Acts (305/2013, 886/2013, 885/2013, 962/2015, 2017/1926, 2017/2380) under Directive 2010/40/EU			
Organizational/ Cross-modal	Signing of a Memorandum of Understanding between public and private entities, which shall specify the actions under the RP's strategy.	Policy Making	Upon signing of the MoU by ITS stakeholders, a well-defined group of agencies shall be created to undertake the promotion and implementation of projects required for the deployment of ITS.			
	Establishment of a performance monitoring framework	Performance Monitoring	Set up of national framework for performance reporting and monitoring as part of national ITS Strategy and Action Plan and within TEN-T reporting guidelines under Directive 2010/40/EU			
	Supporting research and technological development. Make promotions and publicity activities.	Promotion of ITS at RP and regional level	Adopt a framework for developing innovative applications and products for ITS and promoting their use. This can be achieved by creating actions focused on research between research institutions, organizations and companies.			
			Inform stakeholders and wider public about new ITS applications.			

Field of intervention	Action	Object ive	Sub-actions/ Details	2022 Status		
				Status	Planned till (if not already fully transposed)	Comments[1]
Technical/ Cross-modal and ICT	Adoption and mandatory application of standards	Legal & Techni cal framew ork	Mandatory application of DATEX II (CEN/TS) and CEN/TC 278 Standards			
	Implementation of ITS Services Bundle[2] 1	Deploy ment prepar ation - implem entatio n	Projects preparation, documentation, financing, tender procedures and implementation			
			Traffic Management & Control			
			Incident Management			
			Emergency Notification and Personal Security			
			Infrastructure condition and weather notification			
			Ghost Driver Management			
			Safety related information/ incident warning			
			Real time traffic information services			
			Pre-trip travel information			

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[2] Application Bundles as defined in Regional ITS Strategy

Field of intervention	Action	Objective	Sub-actions/ Details	2022 Status		
				Status	Planned till (if not already fully transposed)	Comments[1]
	Implementation of ITS Services Bundle 2	Deployment preparation - implementation	Projects preparation, documentation, financing, tender procedures and implementation			
			Hazardous Materials and Incident Management			
			Emergency Vehicle Management			
			Emergency Notification (accidents, eCall)			
			Positioning and Freight Tracking Services			
			Dangerous/ Abnormal Freight Management			
			Electronic Road Tolling			
			Integration of Payment Systems			
			Public Transport Electronic Payment			
	Implementation of ITS Services Bundle 3	Deployment preparation - implementation	Projects preparation, documentation, financing, tender procedures and implementation			
			Transport Infrastructure Maintenance Management			
			Advanced Driver Assistance Systems			

Field of intervention	Action	Object ive	Sub-actions/ Details	2022 Status		
				Status	Planned till (if not already fully transposed)	Comments[1]
			Automated Vehicle Operation			
			Cooperative Systems (V2V, V2I)			
			Cross Border Services			
			Public Transport Management			
			Demand Responsive Public Transport			

Way Forward

- Maintain Proper Communication Channel

- Ensure that all necessary information has been acquired

- Identify Projects related with the ITS

- Develop Vision and Objectives

Contact information

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Any comments/suggestions?

Thank you!

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