

This Project is Financed by the European Union

CONNECTA

Preparation of selected main/detail designs for improving road safety conditions (risk elimination) along high risk sections in the TEN-T indicative core/comprehensive road networks in the Western Balkans

CONNECTA-TRA-CRM-REG-RS-DD-05

5th Technical Committee on Road Safety 23.09.2020 Belgrade, Serbia







Preparation of Main/Detailed designs along selected priority road sections of Indicative Extension of the Core/Comprehensive Network to the Western Balkan, **Purpose of TA** on the basis of recent road safety inspections (RSI) recommendations for needed interventions The main objective is the improvement of road safety conditions (and reduction of fatalities and serious injuries) along the Indicative Extension of the Core/Comprehensive Network to the Western Balkan. The specific objective of this TA is the preparation of Main/Detail Designs for the identified highest risk road hazards and preparation (for the Road Authorities of SEE parties) to be further implemented (as per CONNECTA respective individual pilot RSI reports, June 2018) in order to improve safety conditions; **Objectives and** The expected benefits are: expected benefits Reduction of the number of road accidents: Reduction of the severity of road accidents, hence of their consequences (fatalities and serious injuries);

- Improved safety indices;
- Lower risk factors;
- Safer infrastructure







Project Timetable and Deliverables



Critical Decision Points and Beneficiary Feedback/Participation Schedule

Review and comments by stakeholders on Scoping report

Review and comments by stakeholders on Draft design documentation

Review and comments by stakeholders on Final design documentation

*Dates are indicative

mid-May 2020

mid-October 2020

January 2021



Scoping period

Identification of

-background documentation, especially geo/topo maps and DTM availability

-site inspections

-feasible measures to be designed (vis a vis the respective RSI proposals)

-new emerging TA needs (e.g. small scale topo/geo surveying, potential expropriations needs,

-design review and approval procedures (especially for specific interventions, such as street lighting)

-early identification of additional stakeholders when necessary (such as Ministries of Interior) across the region

-risks and uncertainties updating

Risks and assumptions

- 1.5 year period between RSI's and new TA
- Update on new plans for each section
- Status of developed designs
- Progress of routine and heavy maintenance
- Status of construction works



Main results of previous RSI's – needed measures





Feasible "interventions"

- Implementation in short (at least medium) term
- Directly designed at "detailed design level"

Main limitations

- Additional survey needed
- Cadastral Right of Way
 unknown
- Long-lasting procedures
- Long term measures
- Existing design needed

Sustainable "interventions" - adopted and supported by relevant stakeholders and road users

ALB Shkoder - Koplik					
	To be included in			Routine	To be included in
	Detailed design	Possible limitations	Comments from	Maintenance	Detailed design
Road safety measures	(Draft)	per SoW	beneficiaries	scope of works	(Final)
Guardrails:					
			To change all end		
Unsafe guardrail ends/ terminals	Y	AS, EDN	terminals with EN 1317.	N	
			Topo-survey only local		
			required.		
Lack of guardrails on high slopes	Y	AS, RoW	Topographic survey for	N	
			detailed design needed		
Missing/damaged guardrails	Y	-	Damaged or missing	Y	
			guardrails will not be		
			replaced/installed,		
			because is included		N
			within Maintenance		
			procedure. Not to be		
			included at SoW.		
Unprotected fixed objects	Y	AS, RoW	Investigation by ARA for		
			the object	N	
			approval/permission.		
			Topo-survey only local		
		l	required.		
Concrete guardrail blocks not connected properly	Y	-	Not to be included at	Y	N
Pedestrians:			SoW.		
			Only solar or other self-		
Pedestrian crossing without proper lighting	Y	EDN, LLP, AS	sustainable		
			('independent')		
			lightning system may	N	
		EDN, LLF, AS	be part of the detailed		
			design. Topo-survey		
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Current status and planned activities

Finished activities

- Initiated as per AO55 of EC/DG NEAR, 24/01/2020
- Kick-off Meeting held at TCPS premises on 06/02/2020
- Missions and inception/scoping stage meetings per table below
- Inception/Scoping Report accepted on 01/06/2020

	Initial meeting	Initial meeting	Venue
RP	Proposed dates	Actual date	
ALBANIA	February 19-20	February 20	MMD office in Tirana
BOSNIA AND HERZEGOVINA	March 31 or April 1	March 18	Tele-conference (Skype)
NORTH MACEDONIA	March 24-25	March 24	Tele-conference (Skype)
KOSOVO	March 10-11	not held	Email exchange of data
MONTENEGRO	March 4-5	March 5	MoTMA office in Podgorica
SERBIA	February 26-27	February 27	MoCTI office in Belgrade

 Design preparatory work - Geodetic (topographic) Surveys and orthophoto mapping -finished

Planned activities

- Detailed feasible measures to be confirmed with the Road Authorities- by 25/09/2020
- Preparation of Draft Design Report (with cost estimates) by 09/10/2020
- Preparation of design final documentation approved by January 2021



WORK BREAKDOWN STRUCURE – LIDAR AND ORTOPHOTO



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POINT CLOUD AND FEATURE EXTRACTIONS - MLS





Feasible measures - Design in progress - Examples















All Participants

We welcome your input and ideas



Thank you!

MOTT MACDONALD CONNECTA CONSORTIUM

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