ALBANIAN ROADS AUTHORITY

Results-based Road Maintenance and Safety Project (RRMSP)

World Bank Loan No. No. 8489-AL

Contract No: CS 02

Consultant Services

for

Road Safety Technical Assistance

Interim Progress Report No. 5 Component 3

D-3.5

Preliminary Version

April 2021

PROJECT IDENTIFICATION DATA

Project Name:	Consultant Service for Road Safety Technical Assistance under Results–Based Road Maintenance and safety Project (RRMSP) for Albania National Road (RRMSP)
Project Contract Reference Number:	WB2400-05/17, IBRD 84890TF 14761, P132982, CS 2, 8489 – AL
Country:	Albania
Consultant:	JV NTU International A/S / EPTISA Servicios De Ingenieria S.L.
Address:	Vestre Havnepromenade 5, 4. Floor DK-9000 Aalborg Denmark
Telephone: **Fax:**	+45 99 30 00 00 +45 99 30 00 01
Contact Person: **E-mail:**	Dritan Dibra – Project Manager, Eptisa ddibra@eptisa.com
Date of Report:	April 2021
Authors of report:	Antonino Tripodi, K-6 International Crash Data Base Specialist Florin-Marius Dumitru, K-7 IT Project Management Specialist Blerina Kurti, NK-5 Local Crash Database Specialist Renato Kurti, NK6 Local IT Project Management Specialist Arben Myrtaj, NK7 Database Specialist *With inputs from:* *Stelios Efstathiadis, K-1 Road Safety Management Specialist - Team Leader*

DISCLAIMER

Joint Venture NTU/ EPTISA

Project Operational Office

Rruga Ibrahim Rugova 28, 5th floor, no.19,

1001 Tirana, Albania

Tel: +355)69 3992079

E-mail: ddibra@eptisa.com

DOCUMENT CONTROL

Project Contract Reference Number:	WB2400-05/17, IBRD 84890TF 14761, P132982, CS 2, 8489 – AL Consulting Services for Road Safety Technical Assistance under Result – Based Road Maintenance and Safety Project (RRMSP)
Country	Albania
Date	30.04.2021
Version	N°01

Version	Date	Prepared by	Reviewed by
N°01	30.04.2021	Antonino Tripodi	Dragan Kostadinov Project Director

EXECUTIVE SUMMARY

This document constitutes the 5th Interim Progress Report of **Component 3** of the Road Safety Technical Assistance (TA) under the Results-Based Road Maintenance and Safety Project (RRSMP), concerning **technical assistance in safe road infrastructure**.

The report covers the activities dealing with Road Crash Data and Analysis System for the Quarter from February 2021 to April 2021. The purposes of this component are:

1. *Support the evaluation and upgrading of the (national) road crash and data analysis system.*
2. *Train system users in diagnostic techniques and system applications.*
3. *Support the preparation of a (national) post-project system upgrade program.*

The activities of Component 3 realised during the quarter from February 2021 to April 2021, were carried out under the challenges of Force Majeure due to the Covid-19 pandemic crisis and were focused on:

- Implementing a training program on Road Traffic Crash Data System & Analysis.
- Monitoring and Evaluating the training program.

TABLE OF CONTENTS

Appendix 1 - Capacity Development and Training Implementation Report

Appendix 2 - Stakeholders' Capacity Development and Training Evaluation report

1. Introduction

The Road Safety Technical Assistance Project consists of four components, including: (1) Strengthen the road safety department (MoTI) as the lead office; (2) Provide Technical assistance in safe road infrastructure; (3) Establish sustainable Monitoring and Evaluation Systems; and (4) Outline and prioritize unsafe behaviour on Albanian roads with proposed, target driven awareness campaigns: On "Promotion" – Publicity and Awareness Campaigns Targeting Unsafe Behaviours.

The Component 3, to which this report refers to, consists of three main activities, each including specific sub-activities. The three main activities are as follows:

- Support the evaluation and upgrading of the (national) road crash and data analysis system (Activity 3.1).
- Train system users in diagnostic techniques and system applications (Activity 3.2).
- Support the preparation of a (national) post-project system upgrade program (Activity 3.3).

1.1   Objectives and outputs of the activities carried out so far

Two out three activities started since the second quarter of project: Activity 3.1 and Activity 3.2. The third activity will start during the next Quarter.

The objective of **Activity 3.1** is to review and improve the capabilities of the system for Road Traffic Crash data collection, management and analysis currently adopted in Albania.

Various outputs are expected for Activity 3.1:

I.   Definition of the Road Traffic Crash data requirements of all identified authorities engaged in the improvement of road safety
II.   Evaluation of current and planned procedures and systems for reporting, recording and analysing road crashes and the extent to which they meet specified agency requirements.
III.   Recommended improvements to current and planned procedures for reporting, recording and analysing road crashes.
IV.   Preparation of a concept plan for improving the system, including recommended hardware and software requirements with preliminary costing and all related user documentation and training needs.
V.   Recommended process to coordinate activities with project monitoring and evaluation component.
VI.   Draft documents for the procurement of the information technology services and equipment, in accordance with best practice bidding procedures for complex IT system developments.
VII.   Support with preparation of specifications and procurement of a new database / information system.

So far, all the activities of Activity 3.1 have been completed.

The initial tasks under this Activity focused on identifying the main needs of all Albanian stakeholders involved in Road Traffic Crash (RTC) data collection, management and analysis. The following activities were performed:
- Identification of stakeholders involved in RTC data collection, management and analysis.
- Meetings with stakeholders to assess current procedures and main needs for future developments.
- Description of stakeholders' requirements and needs for RTC data collection, management and analysis.

The main sources of information on RTC in Albania are Albanian Traffic Police (for data collection on the field) and Ministry of Health (for collection of information on injured persons). In addition, other stakeholders are involved in the road safety process (Albanian Road Authority, Ministry of Infrastructure and Energy, Institute of Transports, Albanian Institute of Statistics).

Currently, most RTC information and data are collected and maintained by Traffic Police. They currently utilise a standalone, MS Office Access database, which incorporates approx. thirty data entry fields. However, the program lacks integral GIS capability. A statistical report form is used by the police officers to collect information when a crash occurs. Generally, the current database seems very limited in its capability to expand. It also lacks a data linking capability with other databases existing in Albania. The Police also provide Institute of Statistics with crash data which they use in their online interactive database. The hospitals (especially the trauma centre in Tirana) are involved in the data collection process but they do not provide directly information to Traffic Police.

Main requirements and needs of stakeholders involved in RTC process relate with the development of a new database / information system allowing for:

- Collection of data on-the-field (i.e. App for mobile devices).
- In-depth analysis of Road Traffic Crashes (RTC) system.
- Reliable management of data.
- Real-time and automatic data sharing within Traffic Police offices and with other stakeholders.
- Inclusion of "historical data" into the eventual new system.
- Use of data from other existing databases.
- Availability of GIS capabilities, as well as in-depth analysis and reporting capabilities.

Subsequently, the activities focused on **assessing the current and planned procedures for reporting, recording and analysing Road Traffic Crashes** and the extent to which they meet specified agency requirements.

In order to assess how to improve the current procedures adopted in Albania, a comparison was made with the recommended international standards, as well as with procedures adopted in other countries (in Balkans and in Europe).

The main standards for Road Traffic Crashes data collection, to which Albania should comply, should be the Community data on road accidents (CARE) of the European Commission and consequently the Common Accident Data Set (CADaS) consisting of a minimum set of standardised road safety data elements.

Main improvements should thus focus on:

- Data accessibility from stakeholders other than Traffic Police.
- Compliance with recommended CADaS datasets (both in terms of variables and of values for each variable).
- Possibility of collecting some of the variables by linking the crash database with other databases on drivers and vehicles

Based on the evaluation, a **set of recommend improvements** have been prepared to improve the current and planned procedures for reporting, recording and analysing road crashes.

Recommendations for future developments focused on:

- <u>Road Traffic Crash data elements</u>: main recommendation deals with changing the current data collection form in order to make it compliant with the CADaS standards.
- <u>Follow up of injured persons</u>: it is recommended to maintain the current procedures in place by Traffic Police for follow up and to introduce MAIS3+ standard to separate between minor and serious injuries.
- <u>Sharing of information between stakeholders</u>: it is crucial to improve the current exchange of information and data so that data can be accessible rapidly. The development of new information systems will support this process.

- <u>New information system</u>: it is highly recommended to set up a new information system for RTC data collection, management and analysis, replacing the current database used by Traffic Police supported by corresponding hardware.
- <u>National RTC database hosting</u>: the new national database should be hosted at the IT&C Directorate of the Ministry of Interiors, since other important databases used by Traffic Police are hosted there.

The agreed recommendations have then been translated into a detailed **concept plan for the improvement of the current system**.

A system architecture for Road Traffic Crash Information System (RTCIS) has been proposed. The concept plan presents the high-level system and operational architecture, identifying involved entities (stakeholders), main data flows and roles.

In addition to this, the concept plan has been further revised in order to include additional features (or data elements) that should be useful for Monitoring and Evaluation of road safety.

Following these activities, the tasks focused on the preparation of technical specifications and bidding documents for implementation of the new crash database and information system. These documents (prepared in the previous quarter) especially refer to draft versions to be revised and finalised subsequently.

Coherently with the Concept Plan for system improvement prepared under Task 3.1.3, this technical specifications and bidding documents describe the features of the information system to be developed and the equipment that should accompany the system.

The main features refer to the various modules composing the information system, namely:

- Data management module.
- Insert module (or data collection module).
- Search module.
- Data reporting (or data analysis module).
- GIS module.
- Audit module.
- Data integration module.

Each stakeholder involved in the RTC data collection and management system has been identified, considering that not all the module and features can be used by all stakeholders. On the contrary, it is important that all the stakeholders can access the data analysis module so that a data-driven decision-making process is established.

Similarly, the equipment has been defined based on the features the information system should include and on the number of potential users.

All these outputs are described in Appendixes of the Initial Report (D.3.0) and of the Interim Progress Reports n. 1 (D.3.1), n. 2 (D3.2), n. 3 (D3.3) and n. 4 (D3.4) of Component 3.

The other outputs for Activity 3.2 are synthesised in the following chapters and detailed in the Appendixes of this report.

2. Progress: February 2021 – April 2021

2.1   Introduction

Activity 3.2 of the Component 3 "Train agency staff (MTI and ARA) in diagnostic techniques and system applications, and police staff as well as health staff in basic data entry requirements" aims at increasing capabilities of Albanian Stakeholders in the process for RTC data collection, management analysis, based on with international standards.

In order to achieve the above-mentioned objective, the following activities have been designed: Preparation and delivery of training program in road traffic crash data collection and analysis and on the importance of data-driven road safety activities (Tasks 3.2.2 and Task 3.2.3).

This is the fifth interim progress report of the Component 3 covering Tasks 3.2.2 and Task 3.2.3.

2.2   Completed Activities

The Component 3 Work Plan for the quarter from February 2021 to April 2021 is shown in Figure 1.

Component 3 - Road Crash Data and Analysis System		feb-21	mar-21	apr-21
		Project Months		
3.2	**Train agency staff in diagnostic techniques and system applications, and police staff as well as health staff in basic data entry requirements**			
3.2.2	Implement the training program for the targeted areas			X
3.2.3	Monitor and Evaluate the training program			X

Figure 1 – Work plan February 2021 – April 2021

2.2.1   Train agency staff in diagnostic techniques and system applications, and police staff as well as health staff in basic data entry requirements

Activities during this quarter focused on preparing and delivering a training on road traffic crash data analysis.

This task has been performed following the outcomes of Component 1 dealing with development of a framework on RTC data collection, management and analysis for Albania.

A report has been prepared describing the main training activities conducted, including material prepared, methodologies used and evaluation forms sent to participants.

All these information are detailed in Appendix 1 and 2 of this report.

3. Next period

3.1   Work Plan

The activities to be completed in the next quarter concern Activity 3.3, dealing with "Preparation of a (national) post-project program". This activity includes a unique Task relating with drafting the Post-project program for RTC data collection, management and analysis in Albania (coherently with outputs from previous Activities).

Figure 2 shows the work plan for the next period.

	Component 3 - Road Crash Data and Analysis System	may-21	jun-21	jul-21
		Project Months		
3.3	**Prepare a (national) post-project program for further system development**			
3.3.1	Post-project program			X
F.0.1	**Produce Final Overall Project Report**			X

Figure 2 – Work plan next period

3.2   Activities Overview

<u>Activity 3.3</u>

Task 3.3.1 will focus on preparing a national post-project program for further information system development and for its maintenance. It will consist in the description of the elements to be further elaborated, maintained and updated once the information system is functional and after the project life.