DIRIZON – Advanced options for authorities in light of automation and Digitalisation horizon 2040

CEDR Programme: Call 2017 Automation

Project Duration: 01.09.2018 – 31.08.2020

Partners: TNO (Coordinator, Netherlands); AustriaTech (Austria); AlbrechtConsult (Germany); Roughan & O'Donovan (Ireland)

Project Introduction

The DIRIZON consortium will support National Road Authorities (NRA's) in their efforts to identify benefits and prepare for risks as a result of digitalisation processes and automation affecting NRA operations. The project will do this through:

- Determining the implications of digitalisation and automation on use cases, and their consequences on data needs and requirements
- Understanding the current and future relationships with other stakeholders in the area of data exchange
- Determining the requirements for data-sharing platforms
- Exploring business models for data-exchange platforms
- Developing the step-by-step transition toward full digitalisation of the NRA road network
- Keeping abreast of relevant developments and discussions

The project has the following objectives:

- Use three important use cases to define the data issues and requirements for NRAs and for a data-exchange platform
- Identify the stakeholder field, how these stakeholders perceive their roles and responsibilities, and how these can evolve
- Propose a technical data-exchange platform concept
- Present three business models archetypes for the exploitation of a data exchange platform
- Develop a step-by-step transition toward full digitalisation of the NRA road network
- Maintain close cooperation with NRAs at the national level and through contact with the PEB project-responsible representatives

Expected Results

DIRIZON will provide a number of benefits for NRAs. It will build on knowledge and expertise within NRAs for bi-lateral and multi-lateral discussions with key stakeholders on the topic of data-exchange, using the following results of the project:

- In-depth analysis of data needs and requirements, based on three use cases important to NRAs
- Identification of key stakeholders in the three use cases, what the relationships with the NRAs are now and how they are expected to evolve
- Provision of key stakeholders' views on roles in these use cases
- Provision of a validated technical data-exchange platform concept
- Exploration of Business Models for a platform for data exchange stakeholders
- Provision of Step by step transition towards a full digitalisation of the road network

The consortium recognises that there are differences between the NRAs represented in CEDR; these differences will be taken into account as much as possible during the course of the project, by integrating CEDR input during the course of the project.