DIRIZON

Dirizon Events:

Workshops with stakeholders related to the area of digitalisation and automated driving will take place throughout the project to ensure that relevant developments are considered and project findings are evaluated by different stakeholder groups.

For more information on these and other dissemination events, see the Events section of the website :
www.dirizon-cedr.com/events

Start date: 1st September 2018
End date: 30th of August 2020
Project duration: 24 months

For more information on the DIRIZON project contact:

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ROD ROUGHAN & O'DONOVAN
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Albrecht Consult AC
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Advanced options for authorities in light of automation and DIgitilisation hoRIZON 2040

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About Dirizon

The Digitalisation of road networks and the rapid developments in Automated Driving will affect the core activities that (national) road authorities (NRA) carry out and provide them with new and more efficient ways to achieve goals for road safety, traffic efficiency, the environment and customer service. In this context, digitalised data plays a key role and enables the connectivity needed to improve efficiencies in managing, maintaining and operating the road network. Equally, digitalisation, along with connectivity, are crucial prerequisites to enable automated driving.

Digitalisation of road assets can provide a number of benefits to road authorities including new (business) opportunities resulting from data sharing, the improvement of enhanced traffic management with ITS equipment, improved asset management thus allowing for more reliable performance monitoring of assets and more efficient maintenance processes. Also, business practices will need to adapt to exploit these opportunities

To support road authorities in their digital transition and in their interaction with other actors in cooperative automated driving, the DIRIZON project was established. DIRIZON's goal is to assist the aforementioned road authorities in identifying how these developments will affect their operations and their interaction with others.

DIRIZON has a clear focus and is looking in detail at three specific core topics:

- Provision of High-Definition Maps for Automated Mobility,
- Distribution of Digital Traffic Regulations and
- IInfrastructure Support for Cooperative Automated Driving

DIRIZON will analyse the implications of Digitalisation and Automated Driving for the three use cases to support (national) road authorities in identifying their benefits and prepare for challenges as a result of the digitalisation processes and the on-going transition towards automated driving.

Project Objectives

Analyse the three core topics in order to determine the related implications of digitalisation and automation and their consequences on operations of (national) road authorities.

Map the actors and understand the current and future relationships between the stakeholders related to the three core topics.

Determine the data requirements and data issues related to the core topics and defining the requirements for data-exchange platforms.

Explore business models related to the data-exchange platform(s)

Define recommendations for a step-by-step transition towards the full digitalisation of the NRA road network, looking at short-, medium- and long-term actions needed.

Maintain close cooperation with the stakeholders related the DIRIZON core topics by involving them actively in DIRIZON events and project activities

Dirizon Work Plan

In order to achieve this goal, the work proposed envisions the following stages:

WP1 : Project Management

WP2

NRAs and Digitalisation

WP3

Digitalisation and Automation:
- Implications for use cases,
- Relationships with stakeholders,
- Data needs and requirements.

WP4

Other stakeholders' views on Digitalisation and Automation

WP5

Towards a digital platform

WP6

Exploration of Business Models

WP7

Step-by-step transition towards full digitalisation of the road network

WP8 : Outreach to Parallel Activities & Dissemination