Day 1
Physical & Digital Infrastructure

Facilitating Connected & Automated Driving, a Road Operator’s Perspective

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EU EIP SA 4.2 - objectives

- Identify the **requirements** of higher level (SAE 3-5) of automated driving to road authorities/operators
- Assess the direct and indirect **impacts** of higher level automated driving on traffic, mobility and the core business of road authorities and operators
- Discuss the socio-economic **benefits and costs** of automated driving from the road operator viewpoint
- Provide a **road map and action plan** for especially road operators to facilitate automated driving on the TEN road network
- Provide **good and bad practices in automating road side and traffic centre operations and systems**, and a first estimate of the **optimal automation levels** for such
EU EIP 4.2

- Activity Lead: Finland FTA
- Active beneficiaries:
  - Sweden
  - Finland (Trafi)
  - Germany (BAsT)
  - Italy
  - Netherlands
  - Spain (DGT)
  - Romania
  - UK
  - Germany (BL)
  - France (Cerema)

- Participants:
  - Denmark
  - France (ASFA)
  - Italy (AV)
  - Spain (SEOPAN)
  - ERTICO

- Followers:
  - Austria
  - Belgium Flanders
  - Belgium Brx Capit.
  - ITS Bulgaria
  - Norway
  - Spain (CTA)
  - Switzerland
EU EIP SA 4.2 – Aim of workshop Utrecht

• Relationship between connected and automated driving and
  - infrastructure (physical and digital)
  - network operations
  - traffic management
• What can road operators do now, in short- and long-term future related to different levels of automation
• Help road operators to understand their role
• Provide input for a joint road operator’s action plan
• Cooperation, sharing knowledge & experience
• Networking!
Setting the scene

Declaration of Amsterdam

The overall goal of all actors involved is to work towards a coherent European framework for the deployment of interoperable connected and automated driving, which should be available, if possible, by 2019.

High Level Meeting conclusions

The participating Member States, the European Commission and the automotive and telecom industry in the HLM have agreed:

A. Informal high-level meeting

• to continue the High Level Meeting on Connected and Automated Driving

• upon a working agenda that will be aligned with a EC roadmap, that gives top priority to the following topics:
  - data sharing;
  - large scale (cross border) testing focusing on the most promising use cases and sharing experiences on these tests;
  - the coherence with V2X communication technologies and necessary digital transport infrastructures;
  - Coherent international, European and national regulation
High Level Meeting conclusions

B. Joint European approach
C. Use of data
D. Vehicle to Vehicle and Vehicle to Infrastructure Communication
E. Cross Border testing
F. Close cooperation in UN-ECE
G. Coherent international, European and national regulation
H. Starting working with the shared Agenda

Agrees to elaborate the working agenda as described above, taking into account the other following topics:

- Impact on road operators, transport operators and traffic management
- Public Awareness
- Cyber Security
- Managed test environments
High Level Meeting conclusions

“Recognizes that connected and automated driving will have a large impact on cities, road operators and traffic management. Therefore the participating member states ask CEDR to jointly assess this impact and to provide the HLM with scenario’s and concrete suggestions to maximize the benefits and to mitigate negative impact. Particular attention has to be given to the possible criticalities as well as the potential to achieve overall climate and transport policy objectives.”
Results of studies

EU-EIP Activity 4.2
Facilitating automated driving

Task 1: Identification of requirements towards network operators

State of ART on Infrastructure for Automated Vehicles

Research report summarizing the scientific knowledge, research projects, test sites, initiatives, and knowledge gaps regarding infrastructure for automated vehicles.

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Results of workshop
Results of workshop
Results of workshop
Results of workshop
Thank you for your attention!

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