



## **5G deployment for Automated Mobility**

### **ITS Europe Congress Eindhoven – ERTICO room**

### **June 5<sup>th</sup>, 2019 – from 13:30 to 17:00**

#### **Foreground**

5G is expected to lead the digital transformation of the transport sector towards a global Digital Smart Mobility paradigm, providing breakthrough mobility concepts and new innovative applications and services matching user needs and societal challenges. The large scale deployment of 5G connectivity in vehicles and road side infrastructure is a prerequisite for the advent of connected and automated driving/mobility (CAM) solutions in Europe. The progressive uptake of these solutions has not only the capacity to bring down the number of road facilities, reduce road congestion and harmful emissions, but also to shape at large the future of mobility in Europe.

5G-PPP phase III action started at the end of 2018 and includes three Innovation actions to validate 5G technologies and architectures for Cooperative, connected and Automated Mobility (CCAM) as well as to provide recommendations on deployment scenarios for 5G in the context of Automated Driving corridors in the EU.

The European Commission is also preparing a framework for launching the Connecting Europe Facility (CEF) Digital projects, to co-finance 5G infrastructure in view of accelerating the deployment of 5G CAM corridors.

#### **Objective**

The workshop intends to exchange views about 5G considering vehicle and roadside infrastructure needs for CCAM, and to discuss the different options to deploy the required 5G technologies and architectures for running the trials on the cross-border and the national trial sites. These discussions are also expected to address requirements from the current 5G-PPP and future 5G CEF projects, as well as to identify potential deployment gaps in the context of the CEF.

The workshop will be organized in two sessions. The first session aims at presenting an overview of 5G technology evolution for CCAM, envisioned business models, and State-of-the-Art results from the 5G-PPP projects. In the 2<sup>nd</sup> session, a summary of the initial outcomes of the 5G-PPP projects and the current plans from the ICT-18 initiatives on CCAM will be provided. At the end of the 2<sup>nd</sup> session, an interactive panel discussion is planned to gather views about 5G for CCAM deployment needs and options in order to help the ICT-18 actions to align their plans and also to support the preparation of the CEF as part of the Strategic Deployment Agenda activities.

## Agenda

### Session 1 – Wednesday 5 June – 13:30 to 15:00

This session will provide an insight on 5G technology evolution for CCAM as well as envisioned deployments needs and models. This session will serve as basis for the discussions in the following panel session.

Moderator Francois Fischer, 5G-MOBIX Coordinator, ERTICO

Presentation topics and potential speakers:

1. Evolution of 5G technologies for advanced CCAM use cases  
Presenter: Ralf Weber, Qualcomm
2. Overview of 5G needs for deploying highly automated vehicle on EU 5G corridors  
Presenter: OEM or Tier 1 – Joachim Goethel, BMW
3. Overview of 5G architecture deployments needs for CCAM  
Presenter: MNO or NW equipment provider – Edwin Fischer, Deutsche Telekom
4. Overview of the Road infrastructure needs to be connected to 5G architectures  
Presenter: Road operator or Road infrastructure provider – Freek van der Valk, Swarco
5. Overview of 5G business models for CCAM  
Presenter: Markus Dillinger, Huawei

(Note: No Q/A session after the presentation s, questions and discussions will be during the panel session)

### Coffee Break – 30 minutes

### Session 2 Wednesday 5 June – 15:30 to 17:00

In the first part of this session, a summary of the initial outcomes of current 5G-PPP projects as well as the identified needs for the EC Strategic Deployment Agenda will be presented.

The second part of this session aims at holding a panel session involving pro-active participants to comment and refine the views presented in the first sessions. The contributions are thus expected to address in priority the questions or concerns raised in the first session.

Moderator: Peter Stuckmann, DG-CNECT – Head of Unit E.1 Future Connectivity

Setting the scene (30 min):

1. Summary of the 5G-PPP work relating to 5G for CCAM and Introduction of the Strategic Deployment Agenda  
Presenter: 5G-PPP Automotive WG – Mikael Fallgren, Ericsson
2. Policy perspective and funding programmes  
Presenter: Christian Micas –DG CNECT – Unit E.1 – Future Connectivity

Panel discussion (60 min):

- Session 1 speakers
- Setting the scene speakers

Note: the representative should rather be an actual organization of the types mentioned above rather than a representing organization.



## Venue and registration

Registration at the ITS EU Congress **and** for the event on Eventbrite are **both mandatory**

- ITS Europe Congress registration (Mandatory, please register at least as Exhibition visitor): <https://2019.itsineurope.com/>
- Eventbrite Registration link (mandatory): <https://5g-deployment-for-automated-mobility.eventbrite.com>