

# The role of 5G in Automation

## 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

In 2019 several research and innovation actions will also start to evaluate and qualify 5G technologies in the context of Road Automation as well as other vertical use cases and x-vertical scenarios.

Next generation of communication technology aims at supporting Automated Driving (AD) with core technological innovations to design and deploy new innovative applications but also breakthroughs in the business models for the mobility of persons and goods.

These forthcoming 5G Automated Driving projects and trials are expected to provide and refine technical requirements for advanced connectivity to progress the automated road transport and new business models, based on preliminary performance assessments from the automotive industry.

## Objective

The workshop intends to explain 5G concepts and key technologies to be deployed in the next generation 5G networks and then to present how these new technologies can advance Automated Driving and innovation for automated mobility. Furthermore, the initial results from 5G trials, as well as results and plans from the 5G-PPP actions will be presented.

## Agenda

**Welcome – Jacob Bangsgaard, CEO ERTICO-ITS Europe**

**Session 1 Thursday 20 September 9:00 -10:30**

This session will provide insight into the 5G pillars as well as the relevant new features for advanced road automation and the expected impact on innovation and business models.

Moderator: Francois Fischer – ERTICO

Speakers:

Speaker 1 – Ralf Weber Qualcomm – 15 min

Title: 5G momentum – employing new dimensions for connected driving

Speaker 2 – Edwin Fischer, T-Mobile – 15 min

Title: 5G deployment options for road automation

Speaker 3 – Philippe Lefebvre DG CONNECT Head of Sector, 5G Deployment Strategy – 15 min

Title: DG CONNECT programme for 5G deployments

Speaker 4 – Joachim Goethel, BMW – 15 min

Title: Automotive Innovations expected from 5G

Panel discussion – 30 min

**Coffee Break – 30 minutes**

## Session 2 Thursday 20 September 11:00 – 12:30

This session aims at presenting the first results of 5G-trials in the context of the automotive verticals as well as the objectives of the forthcoming actions to complete the 5G deployment path.

Moderator: Edwin Fischer, T-Mobile

### Speakers:

Speaker 1 – Jovan Zagajac , Ford – 15 min

Title: 5G deployments and experiences from different markets

Speaker 2 – Maciej Muehleisen, Ericsson – 15 min

Title: Interoperable 5G V2X Communication Across Borders, Automotive OEMs, Mobile Network Operators, and Telco Vendors

Speaker 3 – Ralf Weber, ConVeX project – 15 min

Title: ConVeX project Connected Vehicle (V2X) of Tomorrow

Speaker 4 – François Fischer, ERTICO – 15 min

Title: Trials for 5G connected and Automated Driving use cases

Panel discussion – 30 min

## Venue and registration

The participation to the workshop is free of charge; however participants need to register at the ITS Congress as Exhibition Visitor, see: <https://itsworldcongress.com/registration/registration-fees/> and register for the workshop at: <https://www.surveymonkey.com/r/CV5LWTB>



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