Connected, cooperative and automated mobility in Europe

Tokyo, 14 November 2017

Ludger Rogge
Directorate-General for Research & Innovation

European Commission
Common objective: Accelerated deployment of CCAM

C-ITS Platform

Transport Ministers Meetings

Gear 2030

Roundtable on CAD

Horizon 2020

Connected, cooperative and automated mobility - EC policy initiatives
Connected, cooperative and automated mobility
Joint European approach

- Supportive regulatory framework
- Large-scale, cross-border testing
- Connectivity
- Physical/digital infrastructure
- Data sharing/ Cybersecurity
- Societal issues
- Research & Innovation
H2020 – R&I projects
(ART call 2016/17)

Autopilots for Passenger Cars
• L3Pilot
• AutoPilot

Safety and end user acceptance
• InterAct
• TrustVehicle
• BRAVE

Road infrastructure to support automation
• CoExist
• InfraMix
• TransAid

ICT infrastructure to enable road transport automation

Multi-brand platooning in real traffic conditions

Automated urban transport systems
## H2020 – Ongoing and planned large-scale demos

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- **AutoPilot**
- **L3 Pilot**
- **5G for CAD (planned)**
- **Highly Automated Vehicles (planned)**
- **Multi-Brand Platooning (planned)**
- **Automated trucks in real logistics operations (planned)**
- **Shared AV fleets in urban areas (planned)**
- **Fully automated urban road transport (planned)**
Large-scale piloting of SAE Level 3 functions, with additional assessment of some Level 4 functions

34 partners (OEMs, suppliers, research organisations, SMEs, insurers, authorities and user groups)

11 countries, 100 vehicles, 1000 test drivers involved in the testing

Tested functions cover wide range from parking to overtaking, and urban intersection driving.

Cross-border tests are planned for automated driving systems on highways (e.g. traffic jam assist, highway assist)

Start: September 2017 (48 months)

Budget: €47 Mio (EC funding: €36 Mio)
H2020 – New large-scale demo – AutoPilot
(Automated Driving progress by Internet of Things)

- Large-scale piloting to test IoT enabled autonomous driving cars in real conditions,
- Objectives
  - Enhance the driving environment perception with IoT sensors enabling safer highly automated driving
  - Use and evaluate advanced vehicle-to-everything (V2X) connectivity technologies
  - Contribute to the IoT standardisation and eco-system
- Automated Driving Scenarios
  - Urban Driving
  - Highway Pilot
  - Platooning
  - Automated Valet Parking
- 44 beneficiaries
- Start: January 2017 (26 months)
- Budget: €25.4 Mio (EC funding: €20 Mio)
H2020 Calls "Automated Road Transport" International Cooperation

- All Horizon 2020 projects can include international partners
  - Applicants from non-EU countries are eligible to take part in Horizon 2020 programmes, even as coordinator

- R&I topics for International Cooperation
  - Cooperation with projects or partners from the US, Japan, South Korea, Singapore, and/or Australia is encouraged

- Twinning
VIENNA 2018
A digital era for transport
solutions for society, economy and environment

Be part of THE European Research and Technology
Conference on Transport and Mobility

Date: 16 to 19 April 2018

Location: Vienna, Reed Messe Wien exhibition & congress
centre

For more information: http://www.traconference.eu/

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