This presentation was given by Dr. Joseph Allard during the Public Webinar of 4 July 2019, on Legal perspectives of using IoT for AD, this in the context of AUTOPILOT H2020 project.
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Project objectives and focus
Merging automotive and IoT technologies to move forwards Automated Driving towards a new dimension

- Enhance the driving environment perception with “IoT enabled” sensors;
- Foster innovation in automotive, IoT and mobility services;
- Contribute to the development of IoT Standardisation and eco-system;
- Use and evaluate advanced V2X connectivity technologies;
- Involve Users, Public Services, Business Players to assess the IoT socio-economic benefits for Mobility.
IOT to transform automated driving
Implementation challenges
Driving modes and new services

Driving Modes
- Urban Driving
- Highway pilot
- Platooning
- Automated Valet Parking

IoT enabled Services
- Vulnerable Road User sensing
- Automated driving route optimisation
- Real time car sharing
- Driverless car rebalancing
- HD maps for automated driving vehicles
- 6th sense driving
- Dynamic eHorizon
V2X connectivity

IoT information exchanged over different networks

The performances of ITS-G5 and LTE-V2X V2X connectivity will be evaluated
IOT High Level Architecture

Communication (3G/4G, ITS-G5, LTE-V2X, WIFI, ZigBee, BT)
Key partners and countries
Pilot sites

- Eindhoven, NL
- Versailles, FR
- Vigo, SP
- Tampere, FI
- Daejeon, KR
- Livorno, IT
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• CAD Pilot in the frame of EC-funded **5 Large Scale Pilots on IoT**
• 3 Years Innovation Action: 01/01/2017 – 31/12/2019
• 44 beneficiaries – coordinator: Francois Fischer, ERTICO
• Project costs: 25 m€ - EU contribution: 20 m€
• European Commission: DG CONNECT unit E.4 – IoT / H.2 Smart Mobility & living / A.1 Robotics & Artificial Intelligence
• Cross coordinated and supported by 2 CSA:

  ➢ CREATE-IoT (create-iot.eu)
  ➢ U4IoT (www.u4iot.eu)
Thank you

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