AUTOPILOT

AUTOmated driving Progressed by the Internet Of Things

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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This project has received funding from the European Union's H2020 research and innovation programme under Grant Agreement No 731993

Project objectives and focus

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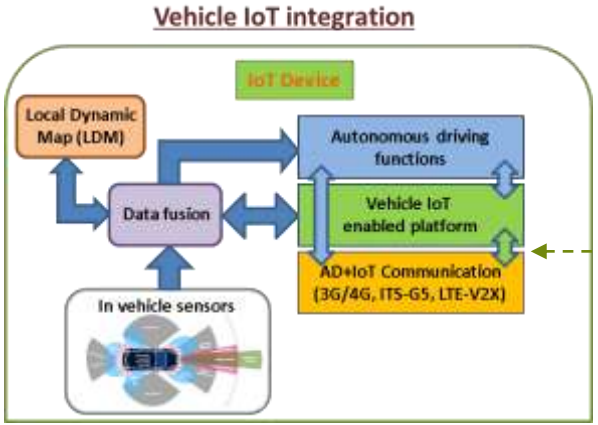
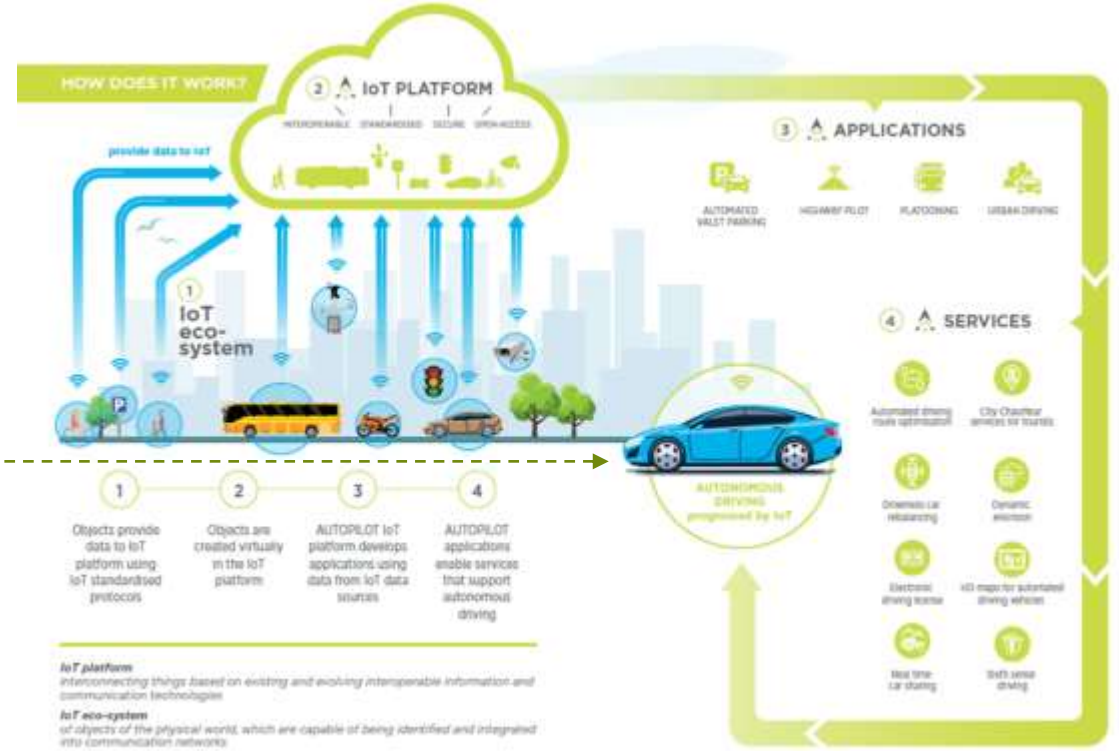
Merging automotive and **IoT technologies** to move forwards **Automated Driving** towards a new dimension

- 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

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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

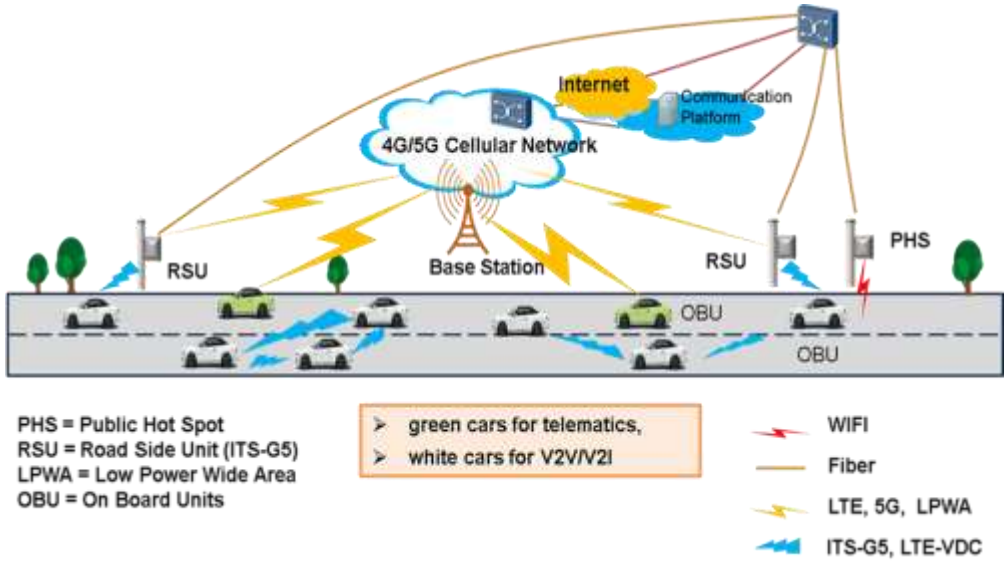

6th sense driving


Dynamic eHorizon

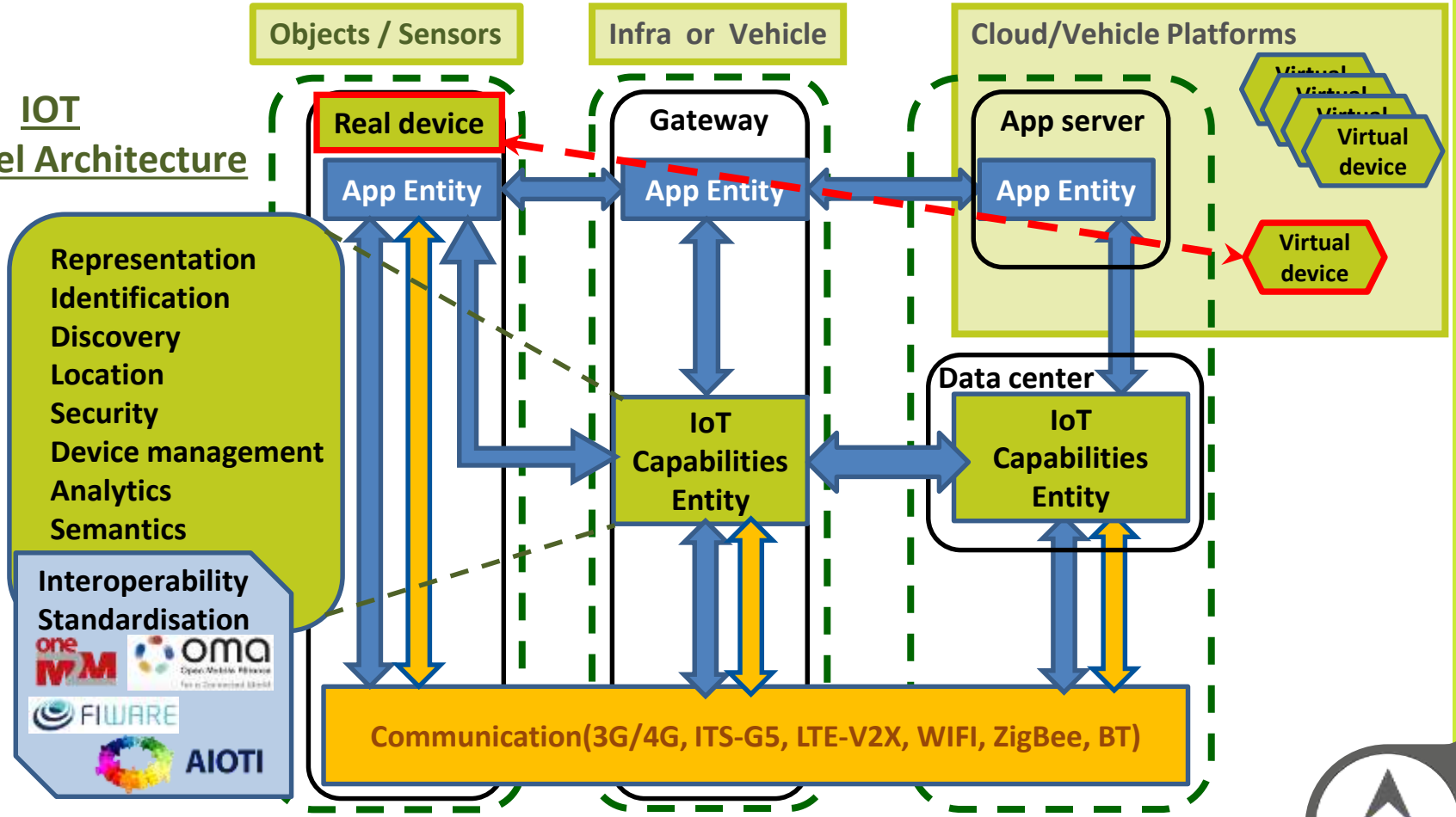
V2X connectivity

IoT information exchanged over different networks

The performances of ITS-G5 and LTE-V2X V2X connectivity will be evaluated



IOT
High Level Architecture



Key partners and countries

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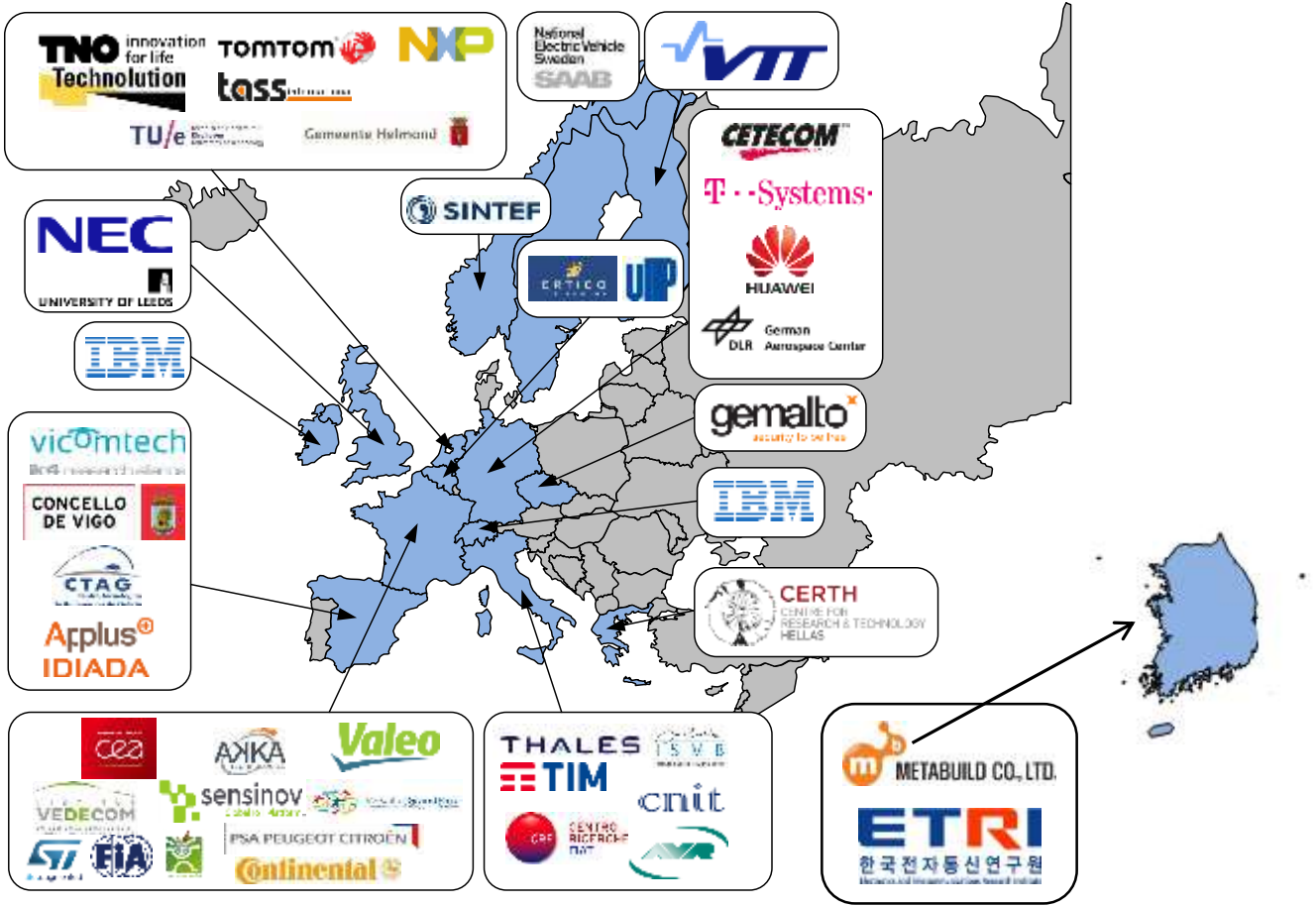
TNO innovation for life
Technolution
TOMTOM
NXP
tass
TU/e
Gemeente Helmond
National Electric Vehicle Sweden
SAAB
VTT
CETECOM
T··Systems·
HUAWEI
German DLR Aerospace Center
SINTEF
ERTICO
UP
NEC
UNIVERSITY OF LEEDS
IBM
gemalto
vicomtech
CONCELLO DE VIGO
CTAG
Applus
IDIADA
IBM
CERTH
CENTRE FOR RESEARCH & TECHNOLOGY HELLAS
cea
AKKA
Valeo
VEDECOM
sensinov
PSA PEUGEOT CITROEN
Continental
THALES
TIM
SVB
cnit
CRF
CENTRO RICERCHE FIAT
METABUILD CO., LTD.
ETRI
한국전자통신연구원

Pilot sites

Eindhoven, NL

Versailles, FR

Vigo, SP

Tampere, FI

Daejeon, KR

Livorno, IT

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European Platforms Initiative

European Large-Scale Pilots Programme

AIOTI Alliance for Internet of Things Innovation

- 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)

CREATE-IoT

➢ U4IoT (www.u4iot.eu)

U4IoT

Thank you

François Fischer

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