



AUTOPILOT

AUTOmated driving **P**rogressed by the
Internet **O**f **T**hings



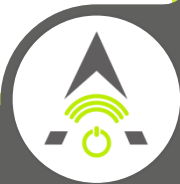
This project has received funding from the European Union's H2020 research and innovation programme under Grant Agreement No 731993



Project objectives and focus



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

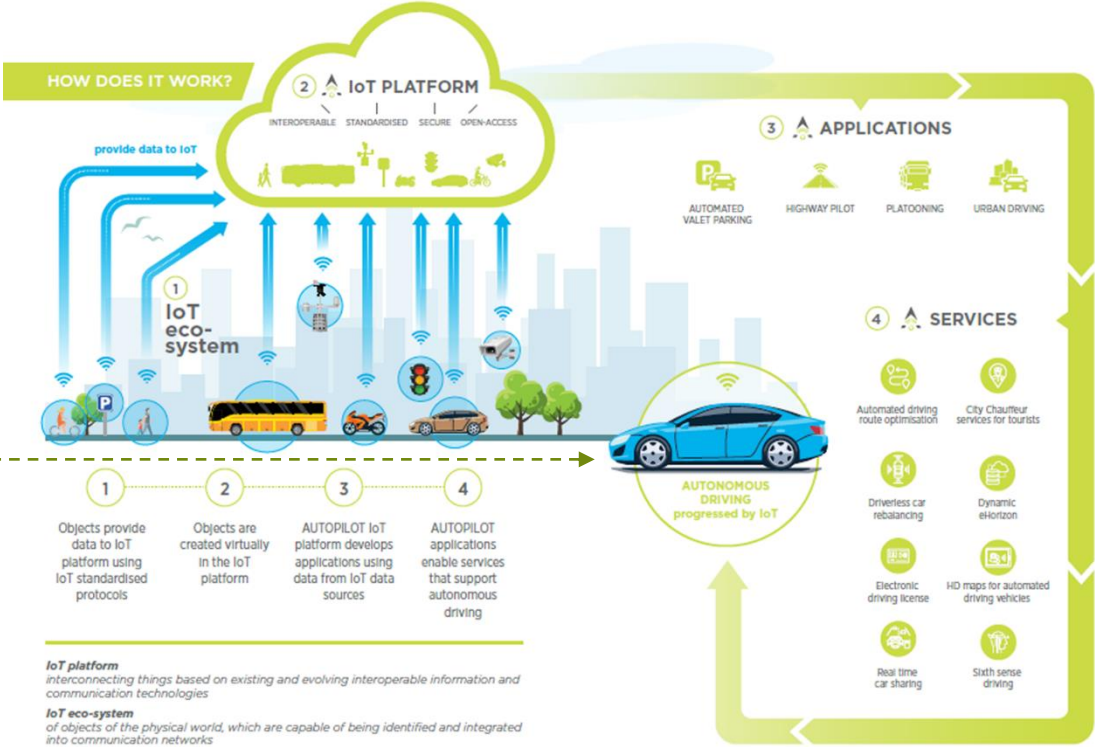
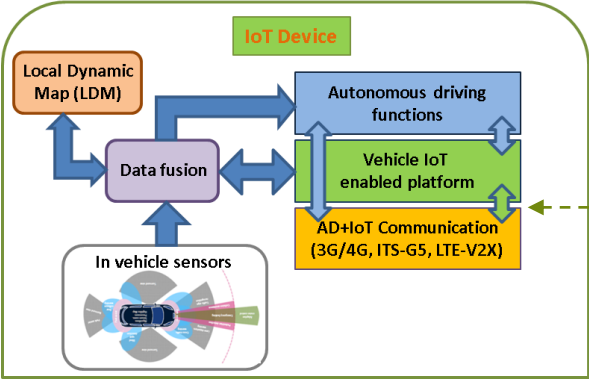


Enhance the driving environment perception using
information from various “IoT enabled” sensors



IOT to transform automated driving

Vehicle IoT integration



Enhancing driving modes and enabling 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



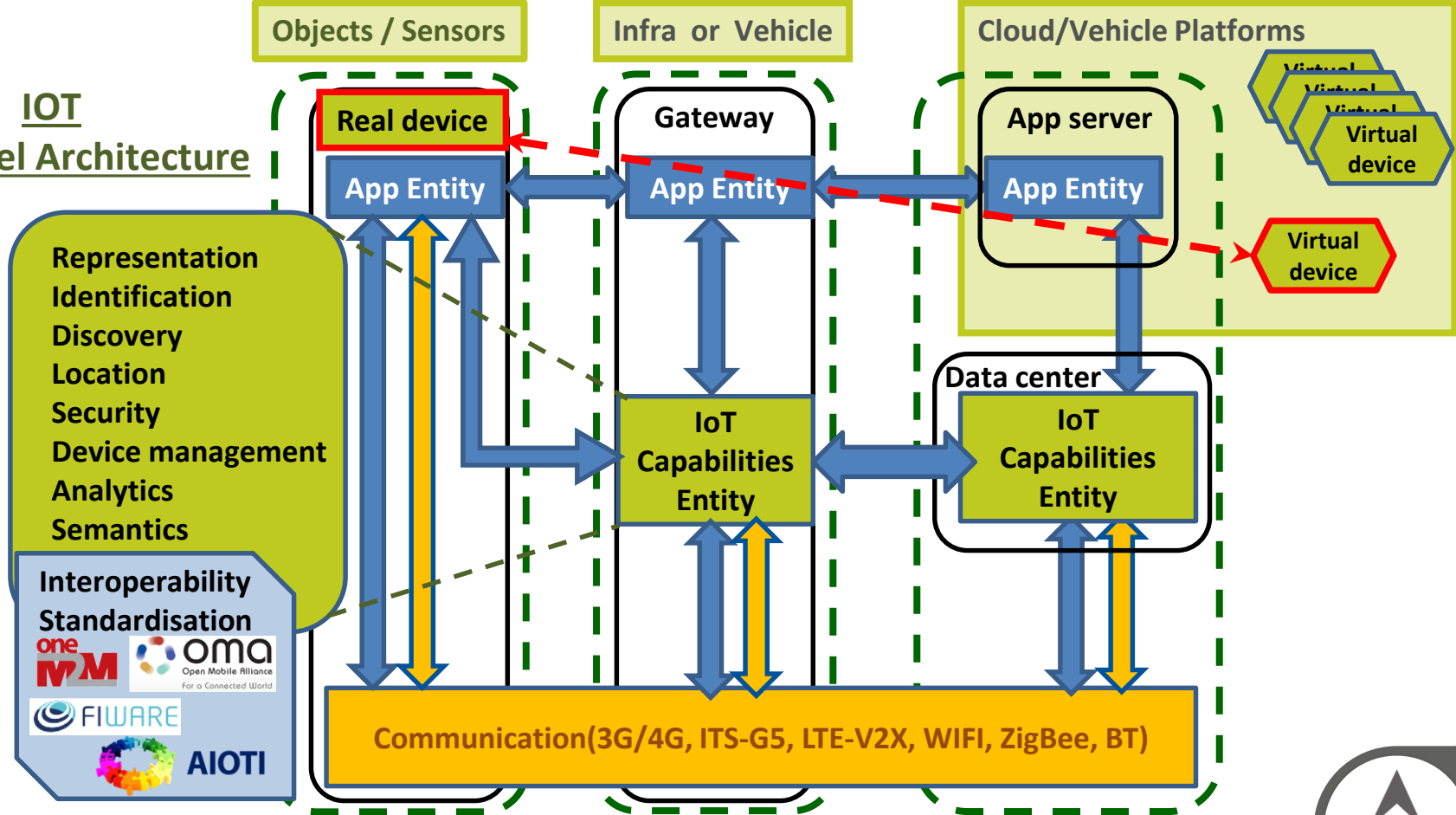
6th sense driving



Dynamic eHorizon



IOT High Level Architecture



Pilot sites

Eindhoven, NL



Versailles, FR



Vigo, SP



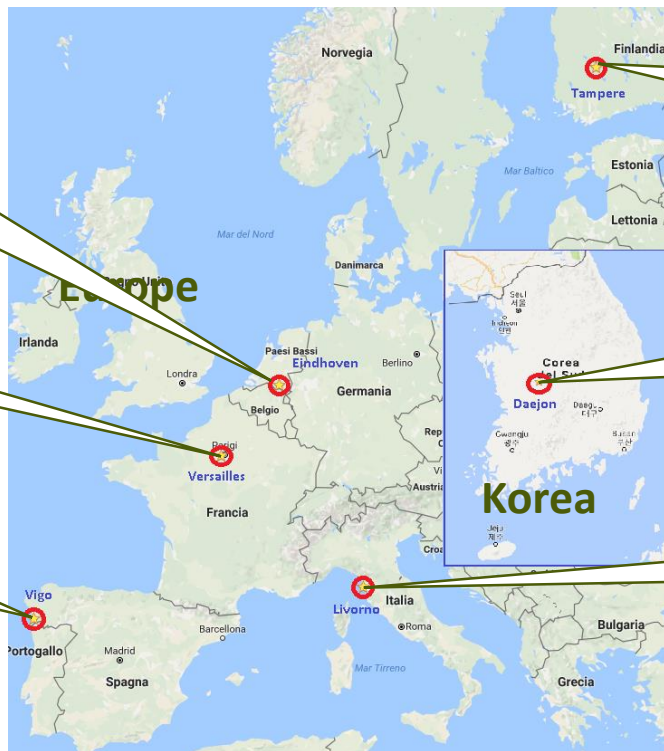
Tampere, FI



Daejeon, KR



Livorno, IT



AUTOPILOT challenges for testing

- AD functionalities not only pending on the vehicle but on a complex environment of decentralised sensors
- Use of information instead of data coming from IoT platforms
- Impossible to test situational conditions with HW on the loop but need to test all components and devices



Testing approach - Pilot readiness verification

Verification of components and solutions

- Testing of IoT platform, IoT device and application functionality and interoperability
- Testing of communication devices inter-operability (ITS-G5, LTE, LTE-V2X)
- Verification of autonomous driving vehicle safety

Verification of pilot readiness

- The end-to-end system test ensures the overall readiness in terms of functionality, robustness and performance for piloting





Thank you

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