

5G-MOBIX German Trial Site Results and Lessons learnt on 5G for CAM

22 June 2022

DETS Webinar



5GMOBIX



This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No. 825496

Agenda

- Opening - Sebastian Peters, TUB
- **Market needs and industrial motivation** - Christian Müller-Hirschhorn, VALEO
- **Introduction to German Trial Site** - Sebastian Peters, TUB
- **5G for CCAM solutions** – Sebastian Peters, TUB & Angel Martin, Vicomtech
- **Trials results** - Fikret Sivrikaya, GT ARC
- **Lessons Learned** - Gorka Velez, Vicomtech
- Q&A

About 5G-MOBIX

ABOUT

- EU funded Innovation action (H2020-ICT-18)
- November 2018 – September 2022
- 50 partners from 11 countries in Europe
- 10 non-EU funded partners from China and South Korea

OBJECTIVES

Accelerate deployment of 5G at cross-border areas

- Carry out trials along X-border corridors to assess 5G capabilities for CAM
- Qualify the 5G-infrastructure and evaluate the benefits of 5G within the CAM context
- Identify spectrum allocation gaps, contribute to standardisation and 5G CEF preparation



Technical

Business



Define deployment scenarios & recommendations including x-border context

- Perform cost/benefit analysis and impact assessment
- Identify new business opportunities for 5G-enabled CAM
- Investigate legal, regulatory and security issues

5G-MOBIX Roll-out at a Glance



LOCATIONS

- 2 Cross-Border Corridors (CBC)
- 4 Complementary European Trial Sites (TS)
- 2 Complementary Asian Trial Sites (TS)



NETWORK

- 8 NSA 5G networks
- 4 SA 5G networks
- 29 gNBs deployed in total



VEHICLES & ROAD-SIDE INFRASTRUCTURE

- 24 SAE L3 & L4 automated vehicles
- 30 5G enabled OBUs
- 22 RSUs and MEC / Edge computing nodes



USE CASES

- 5 Use case categories based on 3GPP TS 22.186, focusing on x-border operation
- 24 Unique User Stories

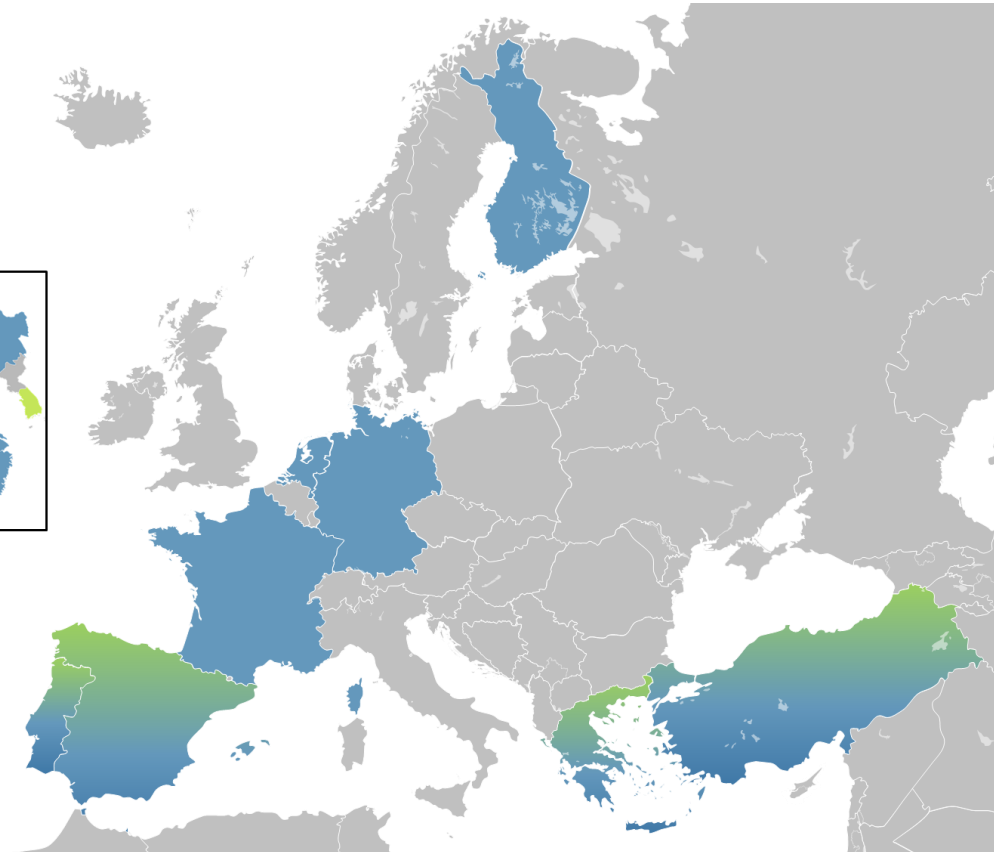
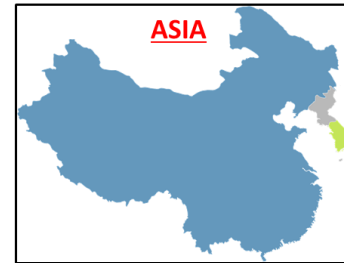
Advanced
Driving

Vehicles
Platooning

Extended
Sensors

Remote
Driving

Vehicle QoS
Support



Thank you



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