



**5G MOBIX**

EUROPEAN LEADING 5G ECOSYSTEM

**FORUM "5G TECHRITORY"**

RIGA, LATVIA | November 22-25, 2021

PHYGITAL EDITION

**5G TECHRITORY**



# 5G TECHRITORY TECH DAY

## 5G intelligent transport system and services

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## ABOUT

- EU funded Innovation action (H2020-ICT-18-2018)
- November 2018 – July 2022
- 59 partners from 11 countries in Europe (incl. Linked Third parties)
- 9 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

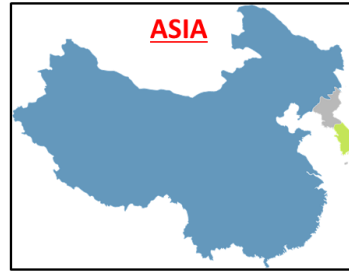
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## LOCATIONS

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



## NETWORK

- 29 5G gNBs
- **NSA** Architecture (potential for evolving to **SA**)



## VEHICLES

- 20 SAE L4 automated vehicles

## USE CASES



- 5 use case categories based on 3GPP TS 22.186, focusing on x-border operation

Advanced  
Driving

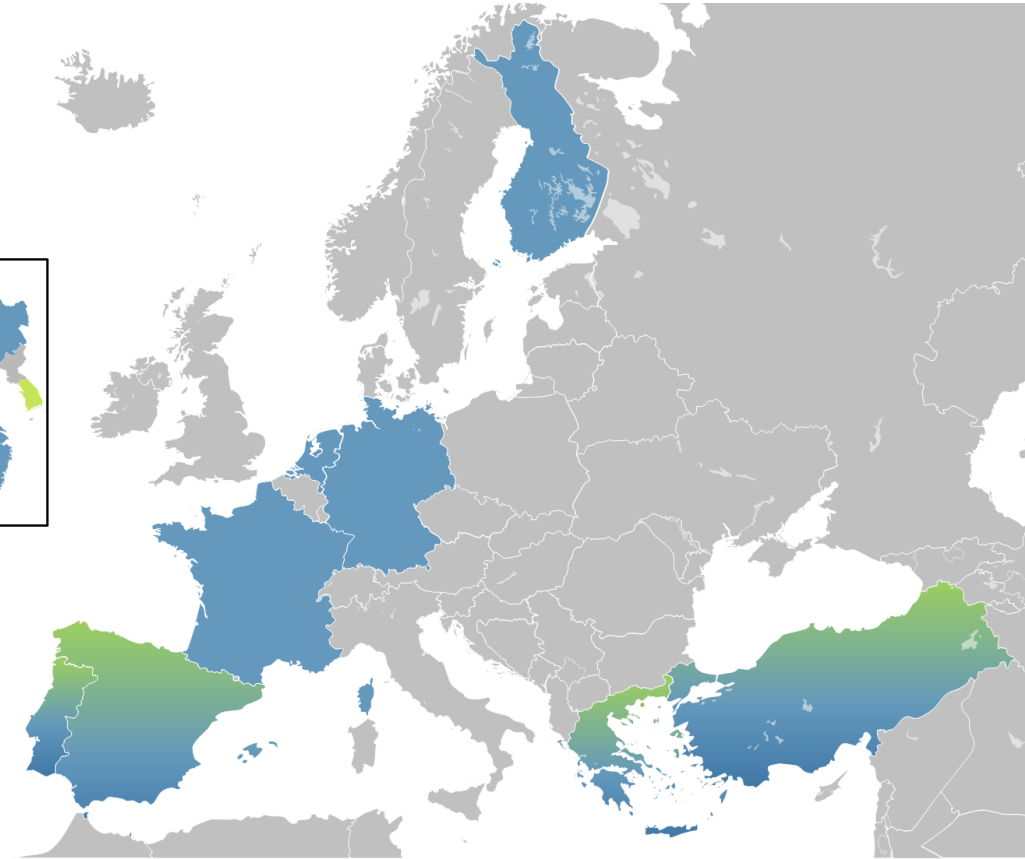
Vehicles  
Platooning

Extended  
Sensors


Remote  
Driving

Vehicle QoS  
Support

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# Network characteristics


SA networks + multi-SIM functionality 

Service discovery

Edge computing


National roaming with seamless HO 

NR mmWave for V2x

Multi-SIM (DSDA) 

Edge computing


NR mmWave for V2X

SA networks with roaming 

SA network slicing

Service Continuity with multiple edges

5G Localisation


SA network and NSA network (multi-SIM service migration) 


n1 Band operation (+n78)


Edge computing

Multi Sim Modem for increased reliability and preventing coss border HO latencies


Intelligent routing for coverage gaps & service continuity


Edge computing (MEC) 

NSA networks with roaming 

Edge computing 

NSA roaming in Hard border conditions

NSA networks with roaming 

Edge computing (MEC) 

Possible SA network with NSA roaming

