5GMOBIX

H2020 5G CCAM Project

With Participation of Nokia Bell Labs Spain

Summary

✓ 5G-MOBIX will develop and test automated vehicle functionalities along multiple cross-border corridors and urban trial sites, under all conditions of vehicular traffic, network coverage, service demand, considering the distinct legal, business and social local aspects.

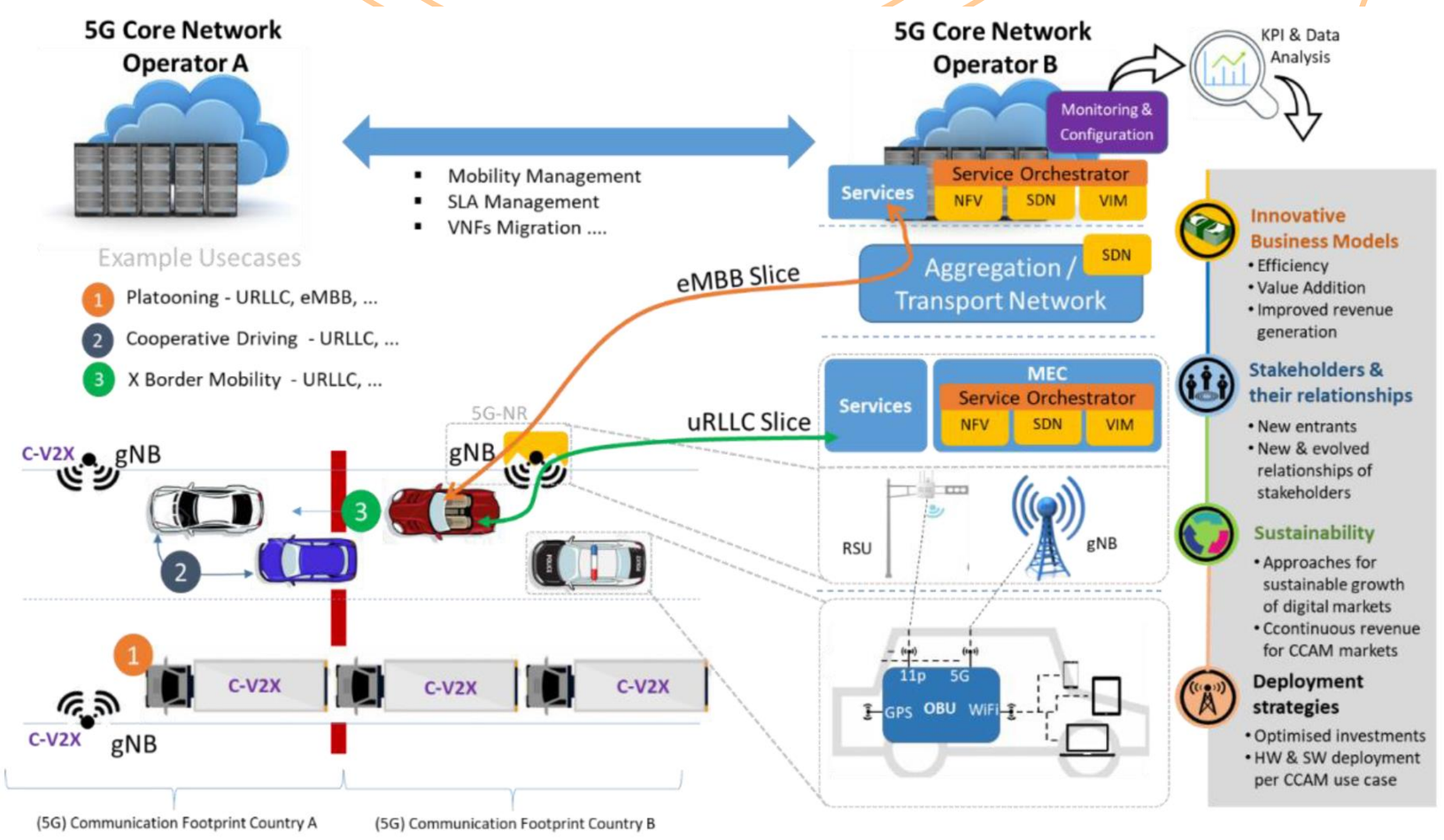
✓ 5G-MOBIX aims at executing CCAM trials along x-border and urban corridors using 5G core technological

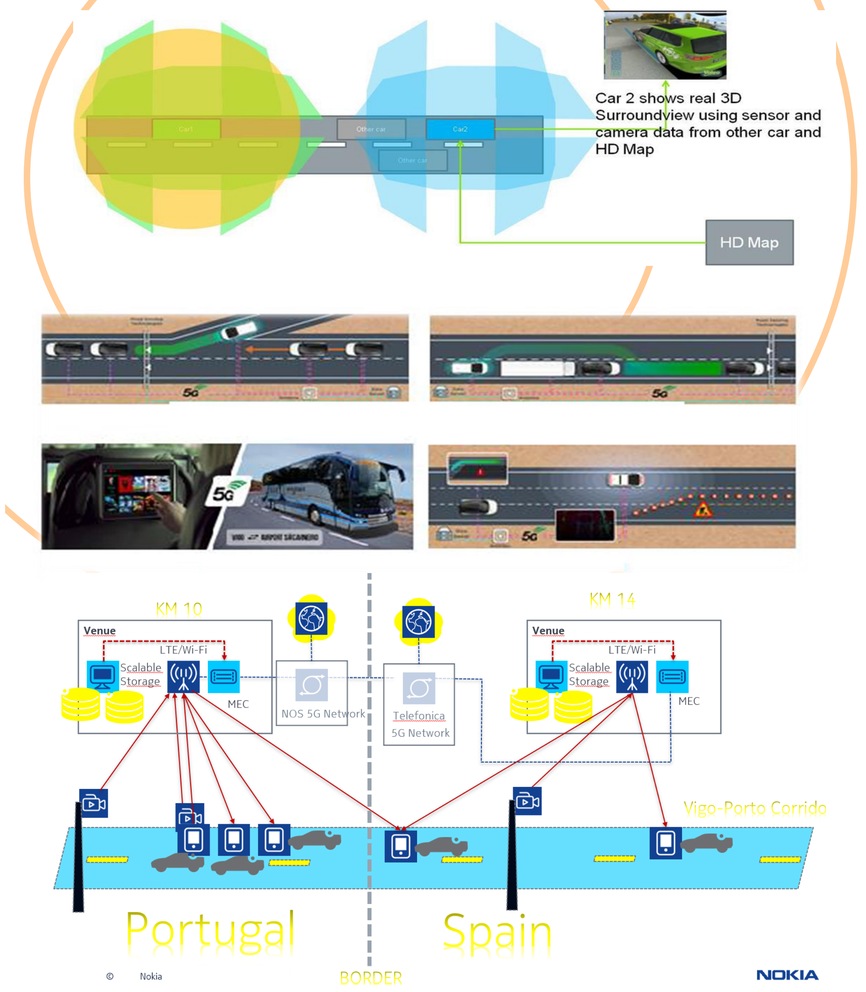
Goals

- Formulate a set of 5G technological requirements for advanced CCAM relevant for the automotive, telecom, IT , industries, and for R&D and public authorities.
- Establish corridors to evaluate 5G technologies and advanced CCAM in both highway cross-border and urban mobility scenarios.
- Analyze costs and benefits of dedicated and validate 5G architecture and CCAM to justify commercially the proposed recommendations.
- Explore and asses new business opportunities for CCAM with 5G.
- Provide 5G deployment scenarios and recommendations to drive CCAM adoption and effective implementations.
- Sustain standardization and spectrum allocation by actively contributing to the discourse.
- Scale up and replicate for a global adoption of the 5G for CCAM.**chitecture**

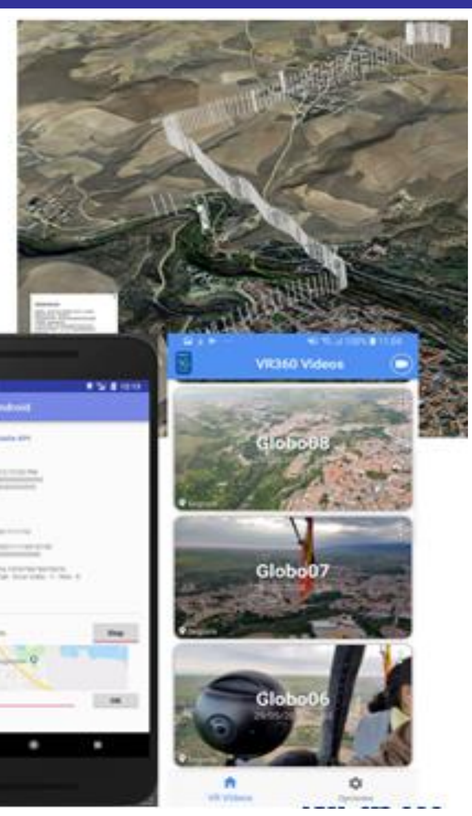
Architecture and Remote Driving

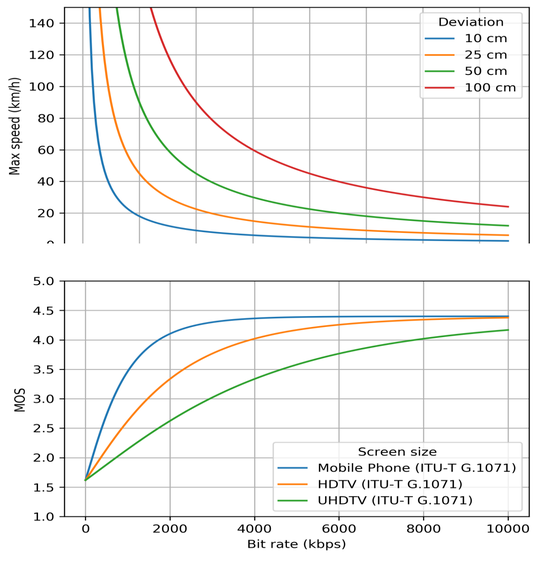
Connected Car – 5G Slicing and X-Border Deployments





5G Video Optimization Challenges Remote Driving and Infotainment





Use case – Concept – 5G Tourism Use Case

- Live VR360 Video Broadcast Experience Using 4.9G Radio with MEC
- People in the bus can see the city in live 360
- People in the 360 Live event can record live full HD Videos and share them via MEC App.

Use case – Remote Driving in the Last Mile

- In this scenario the EV autonomous vehicle is driving following a predefined route
- If an obstacle appears in its path blocking the original route. In this situation, an operator is alarmed, and he/she is able to remotely take the control of the EV autonomous vehicle in order to handle a new route.

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