

5G for Connected and Automotive Vehicles



CAD EU funded actions

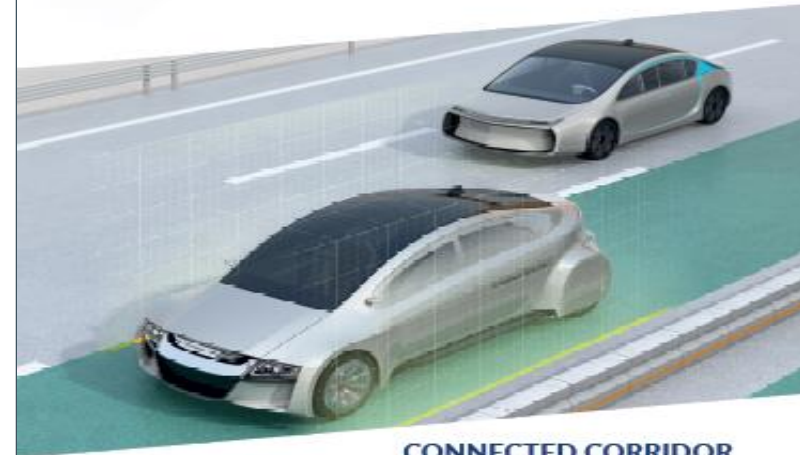
- Automated Road Transport - ICT4CART
- IoT - AUTOPILOT
- 5G-MOBIX
- 5G-DRIVE
- Concorda

CONCORDA

• CONCORDA

CONCORDA

Co-financed by the European Union
Connecting Europe Facility



CONNECTED CORRIDOR FOR DRIVING AUTOMATION

First interoperable pilots with hybrid communication
for automated driving on highways in five different
EU Member States (Germany, France, Netherlands,
Spain, and Belgium)

Timeline: October 2017 – June 2020

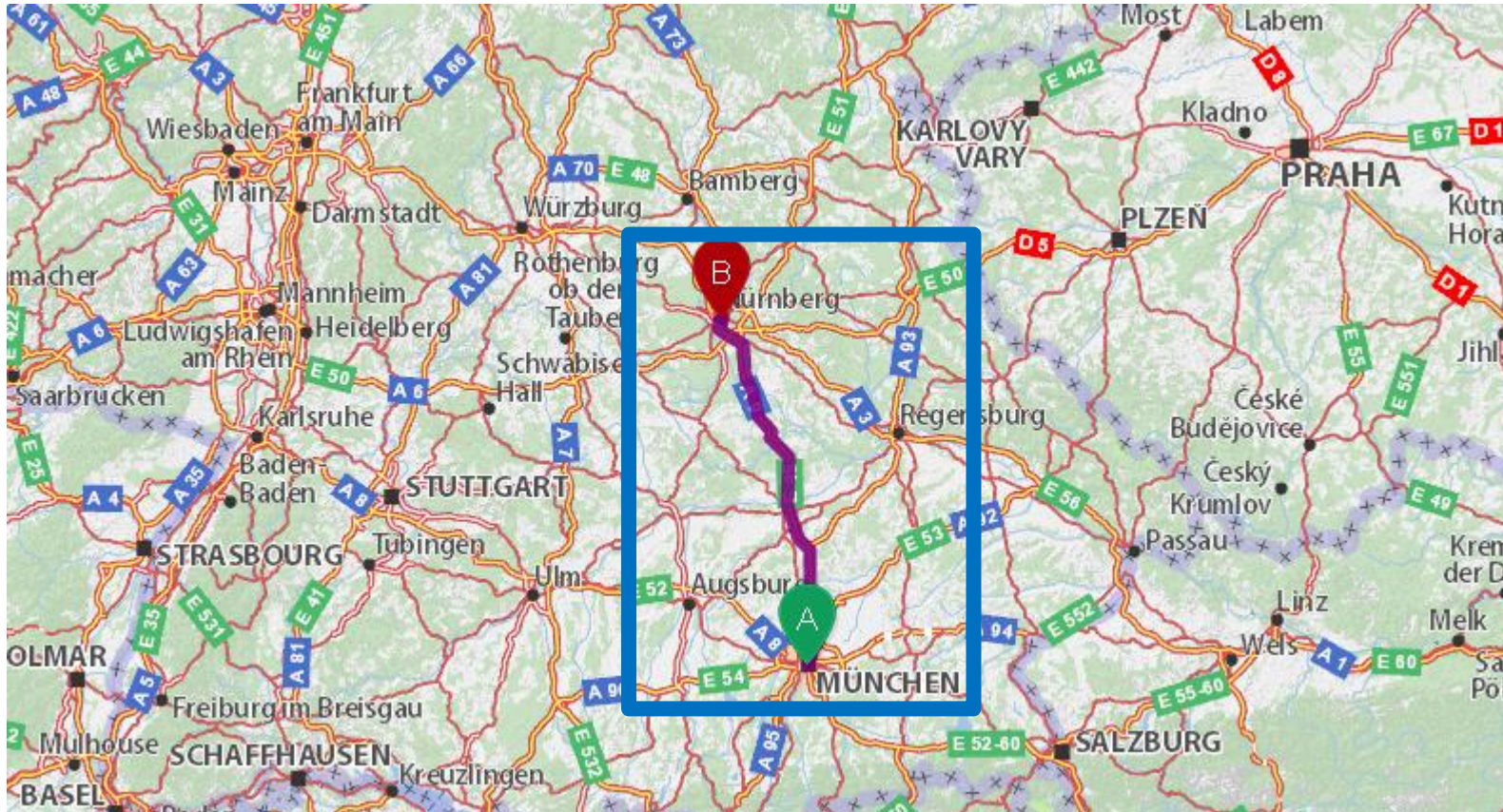


ACTIVITIES

- A1: Pilot roll out preparation=6 milestones
 - A2: Technology integration=10 milestones
 - A3: Pilot Operation=7 milestones
 - Pilot site Germany
 - Pilot site Holland
 - Pilot site Belgium
 - Pilot site France
 - Pilot site Spain
 - A4: Pilot Evaluation=6 milestones
 - A5: Parallel studies and best practices=3 milestones
 - A6: Project management, Communication and Liaison=2 milestones
 - TOTAL CONCORDA=6 activities/34 milestones
 - for:
 - **Two main use cases: automated highway chauffeur and truck platooning**
 - Pilot sites 5: BE, FR, DE, NL, SP
 - 33 months
- 26 Partners:**
- Automotive OEMs:5
 - Mobile Network Operators:5
 - Telco suppliers:3
 - Automotive suppliers:2
 - R&D:7
 - Public authorities:4



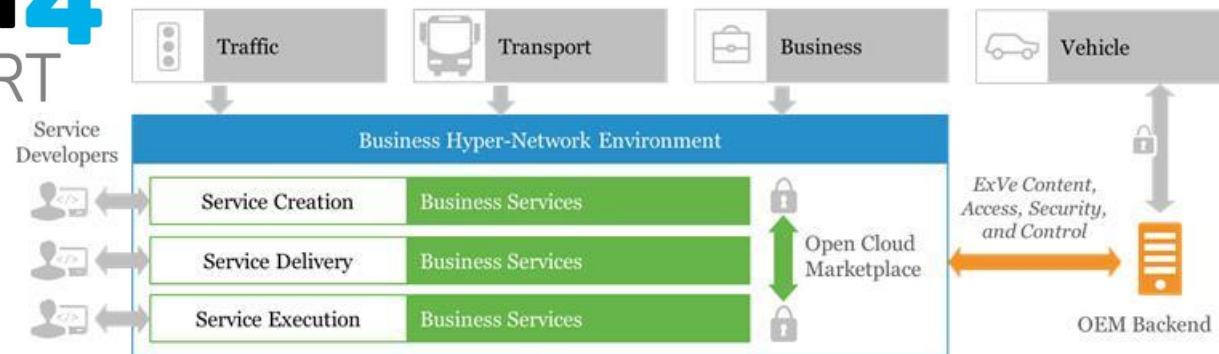
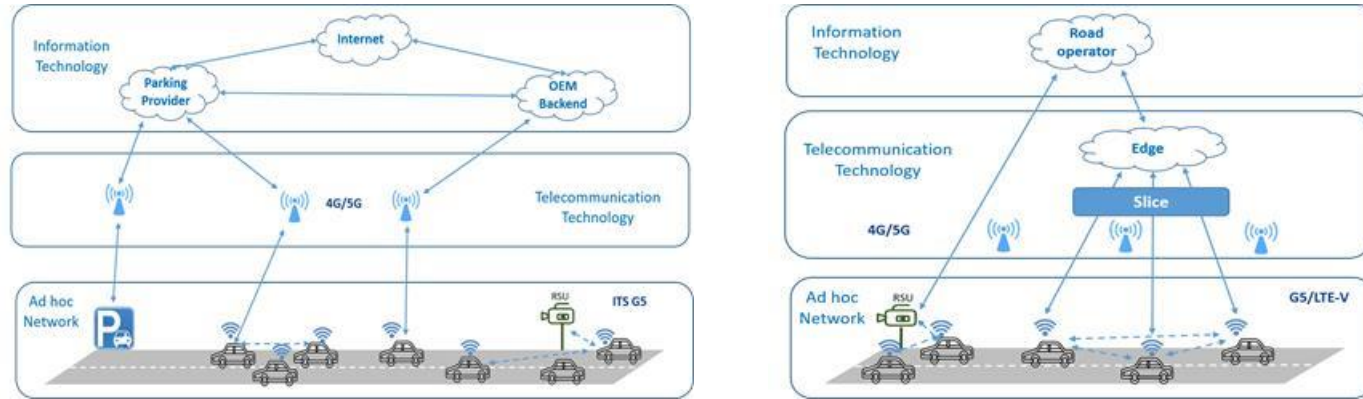
PILOT SITE: GERMANY



Motorway A9:140km

- Special equipped test section for supporting automated driving (landmarks and reflectors for precise positioning)
- Adaptive traffic control systems: Use of dynamic installations which, for example, warn of danger spots and weather-related restrictions, and, in addition, regulate the flow of traffic
- Fast LAN connection: Direct transmission of large amounts of user information via a central point of contact at selected locations of the Digital Test Bed

Implement, test and validate in real life conditions an ICT infrastructure to progress highly automated driving (L3 & L4)



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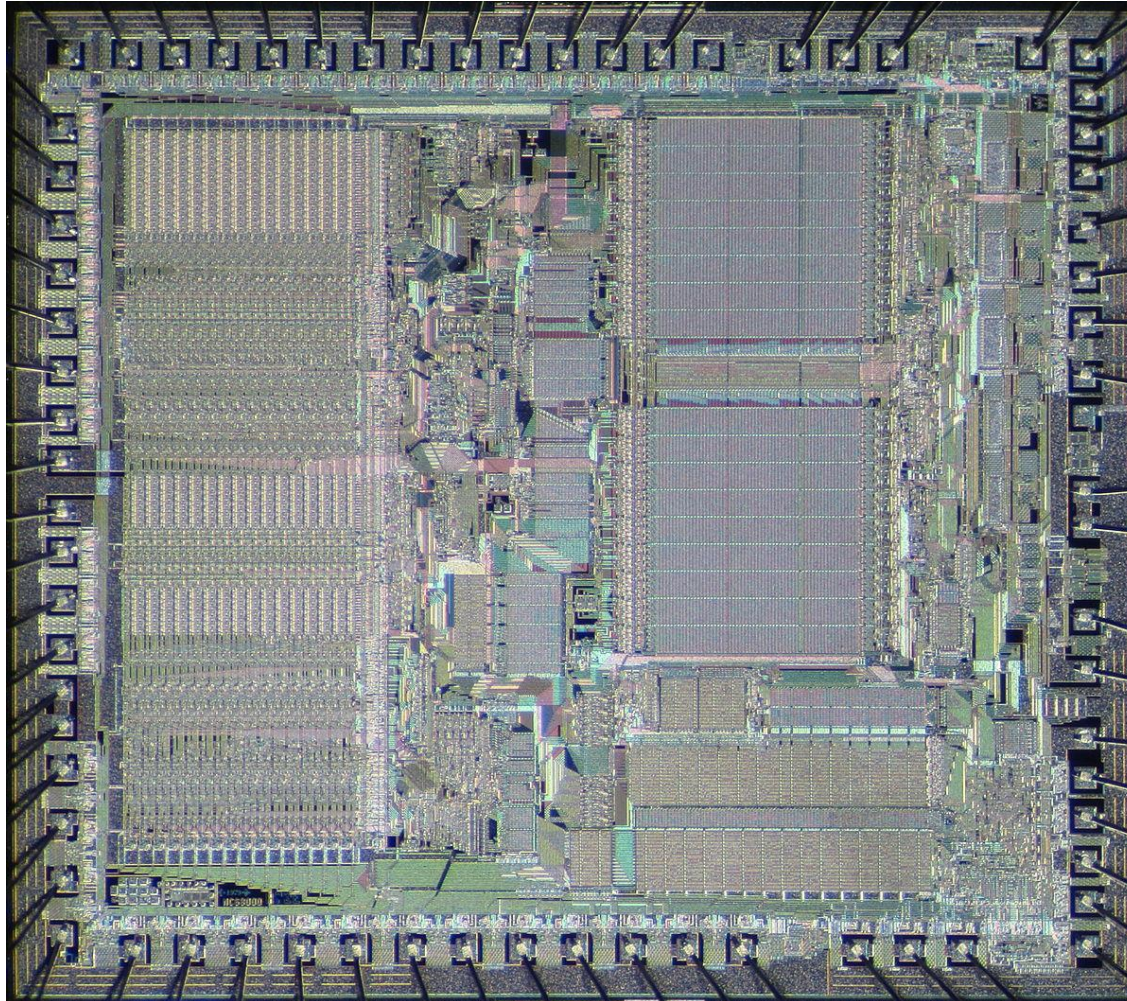
25th ITS WORLD CONGRESS-COPENHAGEN



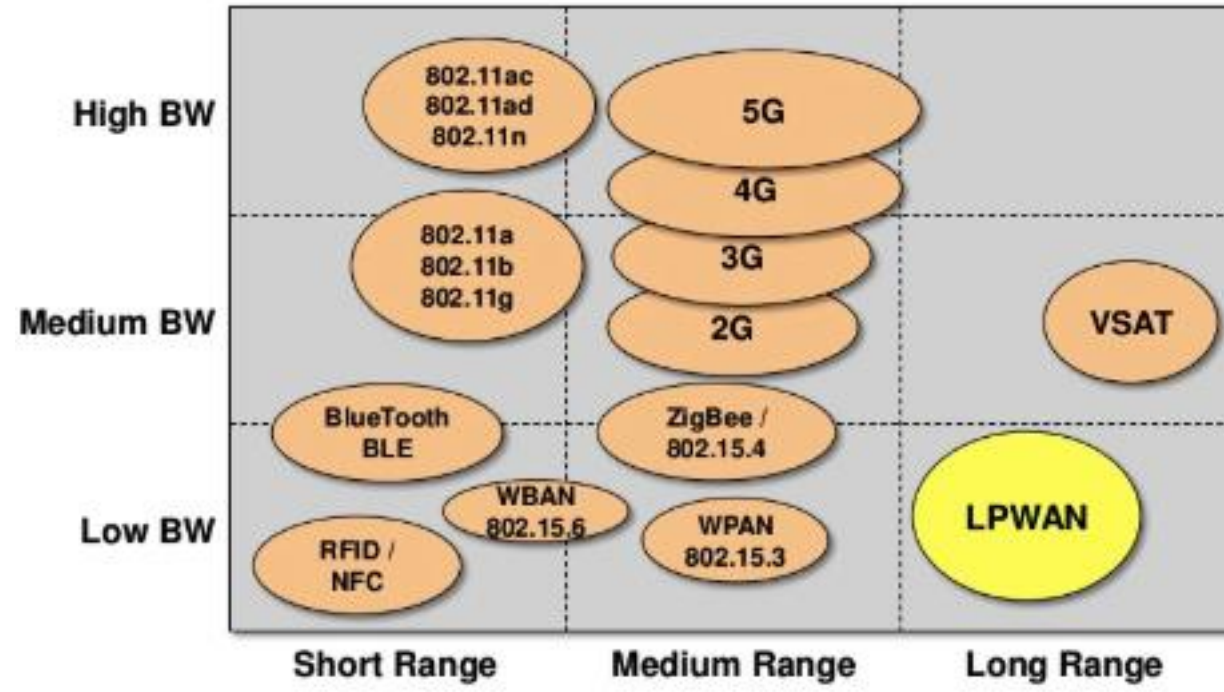
Regulation



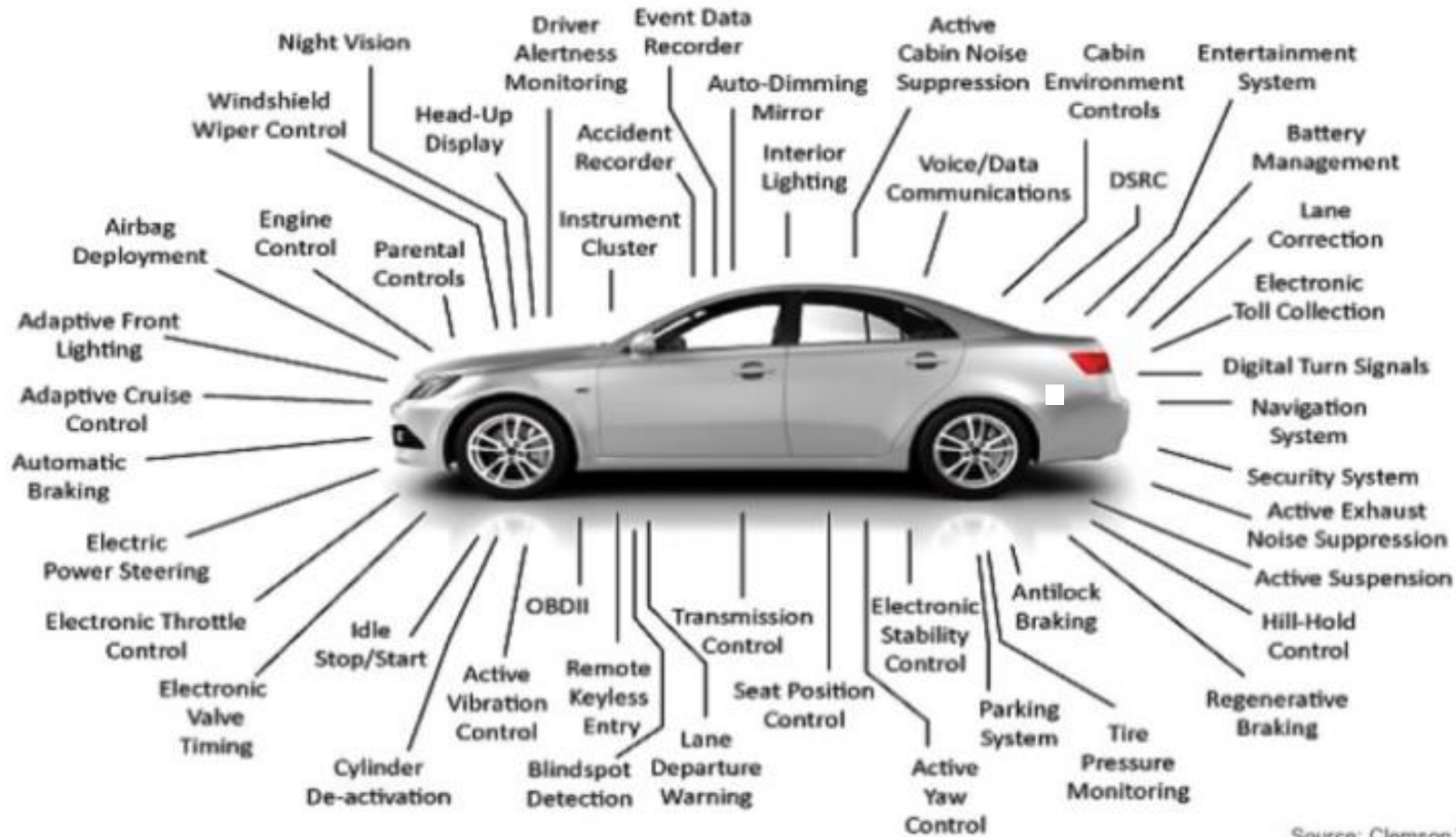
Attack surface: Chips



Attack surface: Networks



Electronic Sensors in Automobiles



Source: Clemson Vehicular Electronics Laboratory

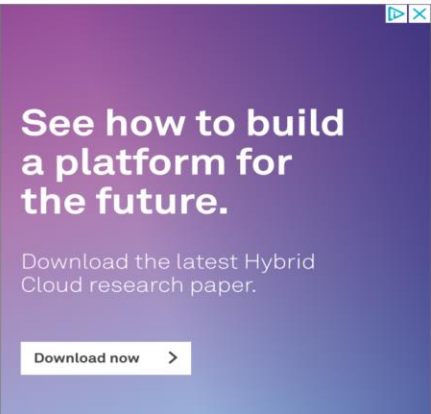
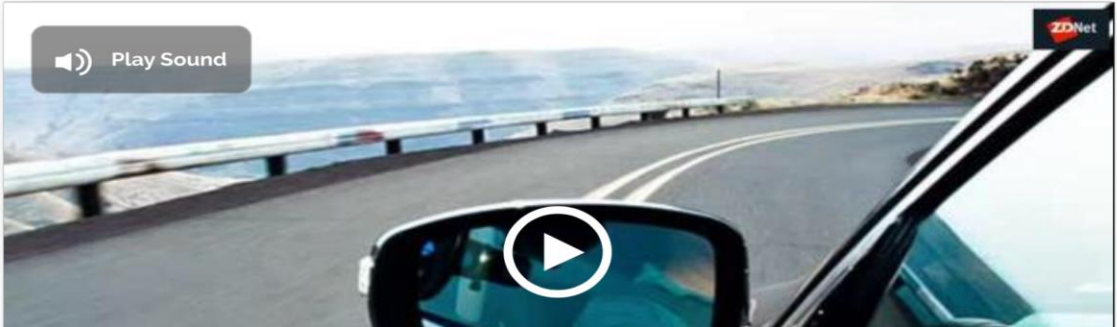
EDITION: ▼

MUST READ **APPLE KICKS OUT IOS APPS THAT SHARE LOCATION DATA WITHOUT ASKING YOU FIRST**

VW-Audi security: Multiple infotainment flaws could give attackers remote access

Some VW and Audi models are vulnerable to remote hacking over Wi-Fi and cellular networks.

By [Liam Tung](#) | May 1, 2018 -- 12:59 GMT (13:59 BST) | Topic: [Security](#)



Attack Surface: Community Support?



<http://ertico.com/>

