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5G for Connected and Automotive Vehicles

CAD EU funded actions

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

CONCORDA

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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

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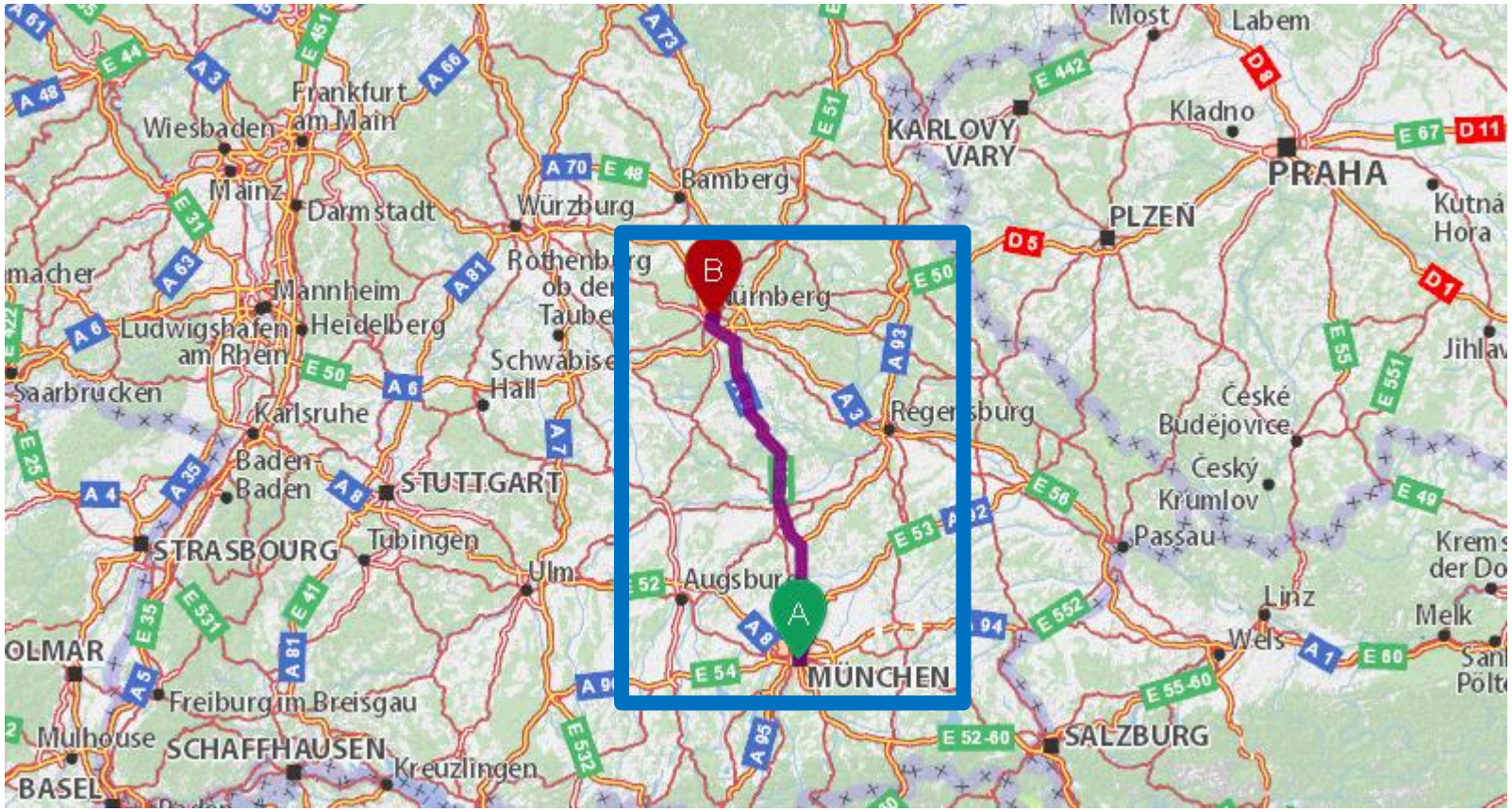
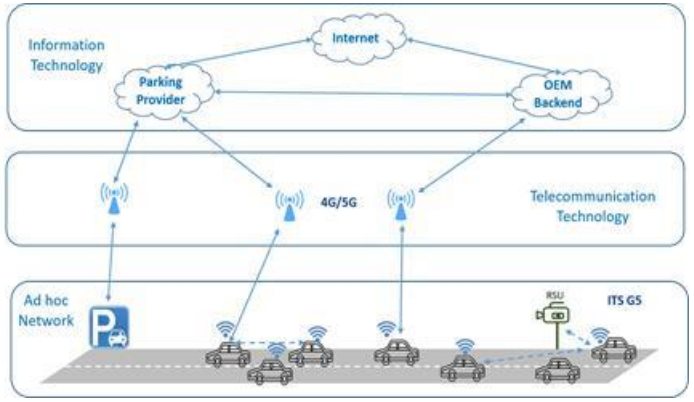
PILOT SITE: GERMANY

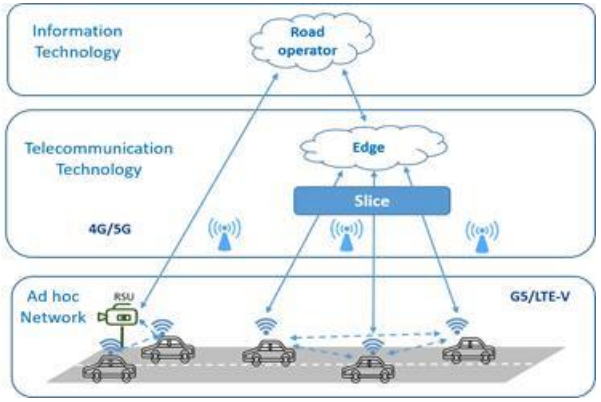


Motorway A9:140km

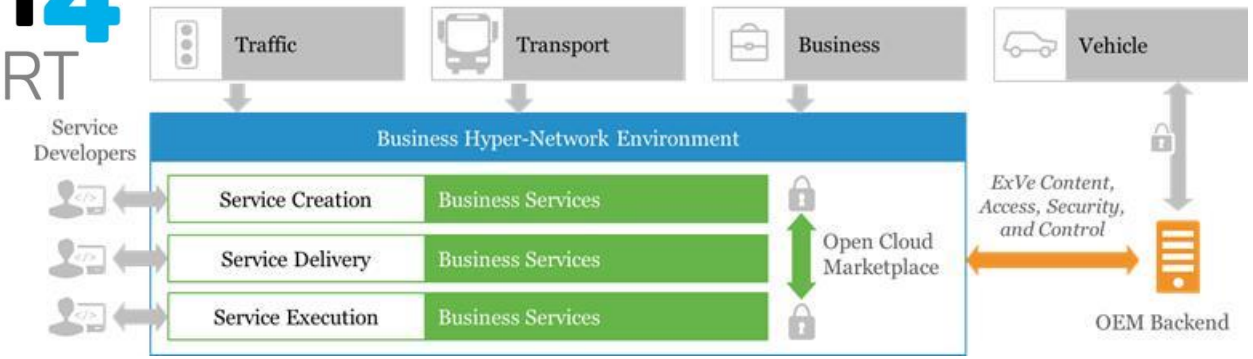
- Special equipped test section for supporting automated driving (landmarks and reflectors for precise positioning)
- Adaptive traffic control systems: Use of dynamic installations which, for example, warn of danger spots and weather-related restrictions, and, in addition, regulate the flow of traffic
- 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)





ICT4 CART



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http://ertico.com/
Francois Fisher ffisher@mail.ertico.com

25th ITS WORLD CONGRESS-COPENHAGEN

Regulation

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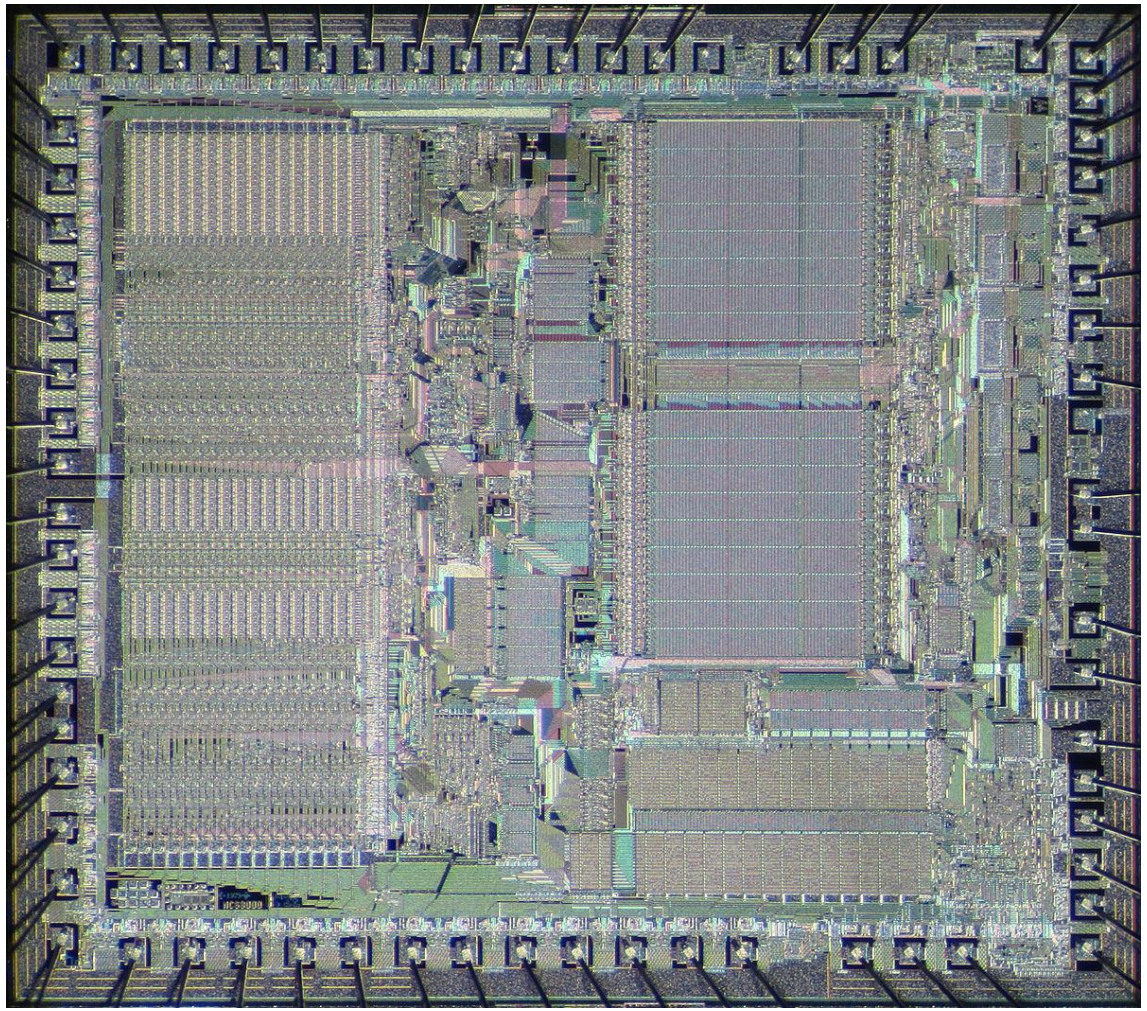
Attack surface: Chips



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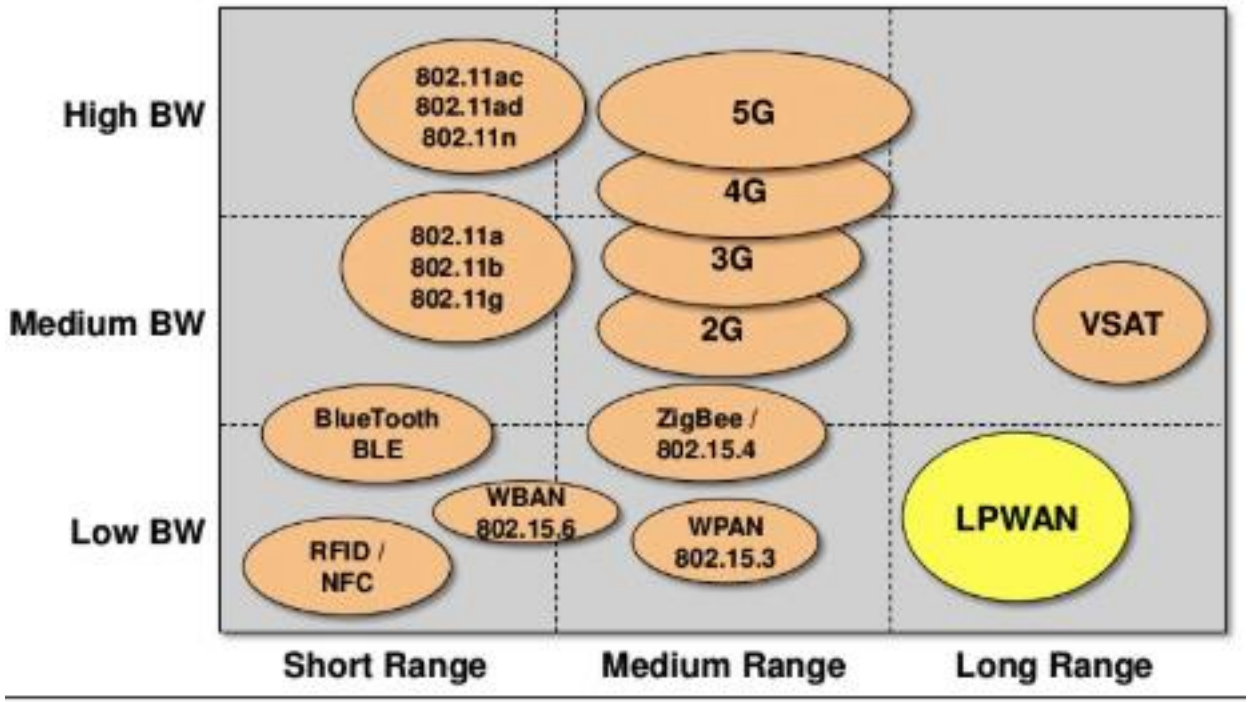
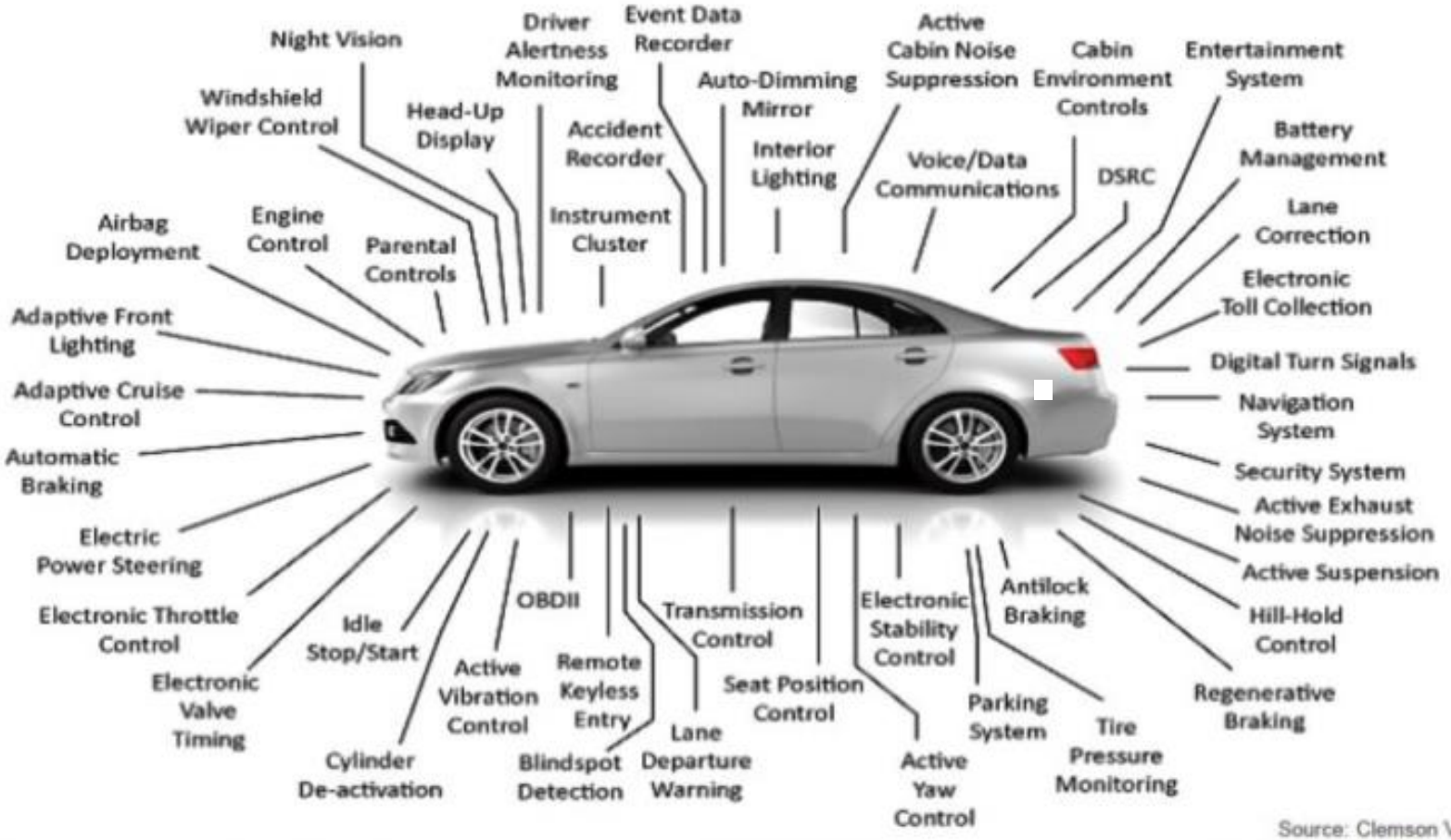
Attack surface: Networks



Electronic Sensors in Automobiles



Source: Clemson Vehicular Electronics Laboratory

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Attack Surface: Community Support?

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