



5G Automotive Association,
pioneering digital transformation
in the **automotive industry**

Learn more at
WWW.5GAA.ORG

5GAA brings together automotive, technology and telecommunications companies to work closely together to develop end-to-end solutions for future mobility and transportation services



AUTOMOTIVE INDUSTRY

Vehicle Platform, Hardware
and Software Solutions



TELECOMMUNICATIONS

Connectivity and Networking
Systems, Devices and
Technologies

End-to end-solutions for intelligent
transportation, mobility systems
and smart cities

5GAA: A Global Cross Industry Association

September 2016

- “Audi, BMW Group, Daimler AG are teaming with Ericsson, Huawei, Intel, Nokia, and Qualcomm to create the 5G Automotive Association (5GAA), which will help develop, test, and promote 5G standards”
- “Scope of the alliance is focused on bringing connectivity solutions to market, addressing technical, business, and regulatory challenges”



Q2 2018

- 5GAA unites +87 members (June 2018) working together to:
 - Deliver innovation for road safety, connectivity and sustainability
 - Accelerate cooperative, connected, automated mobility
 - Develop 360° solutions for SMART mobility services
 - Pave the way towards 5G mobility

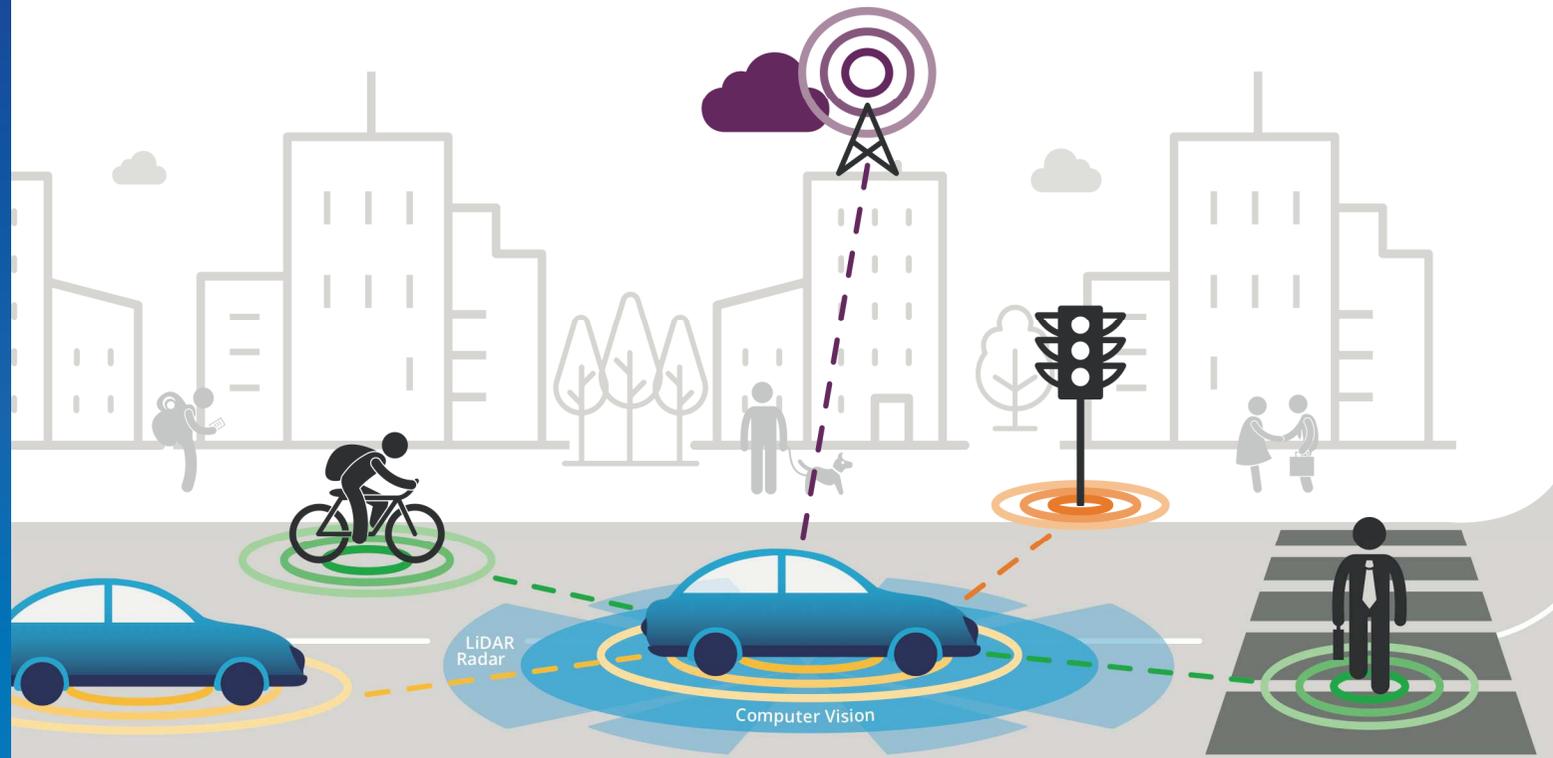


What is V2X (Vehicle to Everything)?

Comprehensive
vehicle and traffic
safety

Accelerates
autonomous driving

Allows vehicles to
communicate with
each other **V2V**
and the wider
transport ecosystem
V2N, V2P, V2I

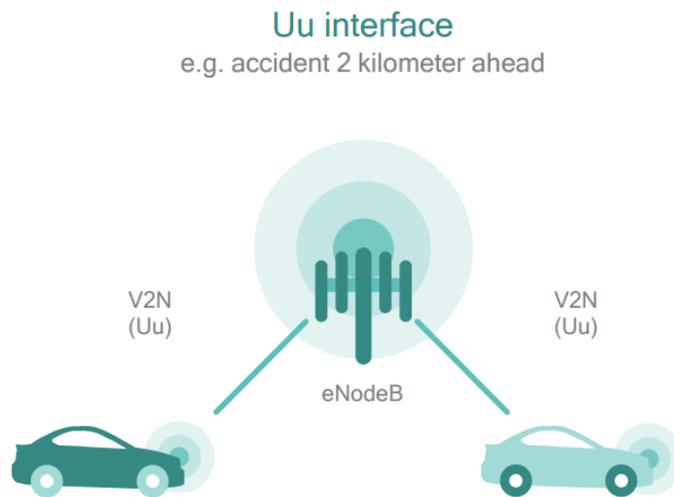


Why Cellular V2X (C-V2X)?

C-V2X defines two complementary transmission modes

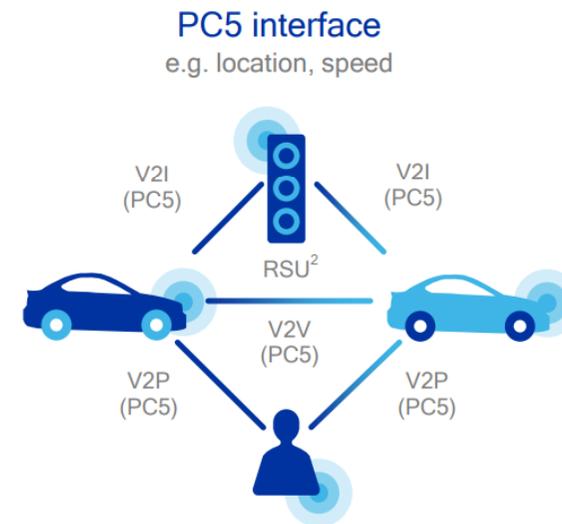
Network communications

V2N on “Uu” interface operates in traditional mobile broadband licensed spectrum



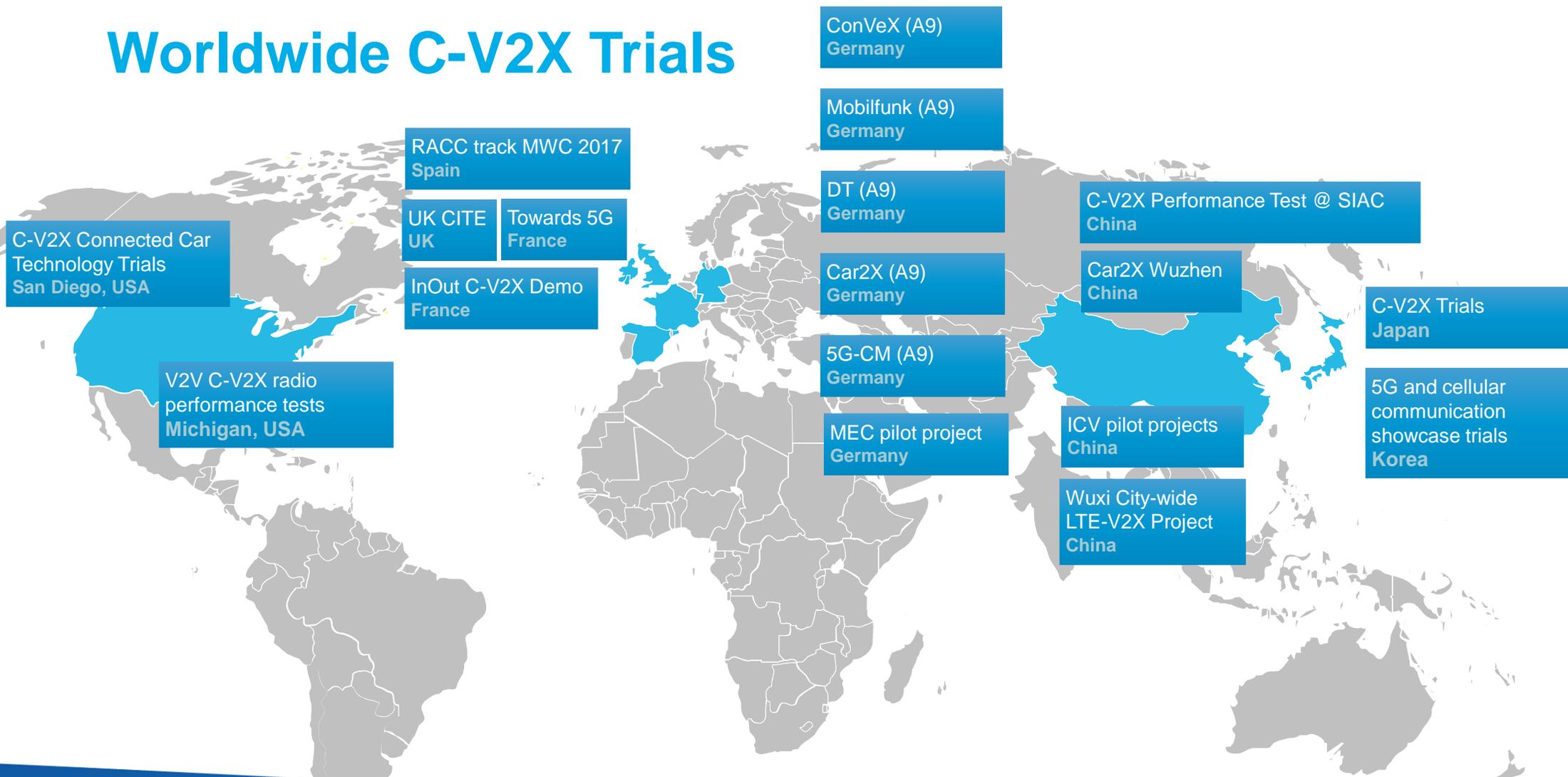
Direct communications

V2V, V2I, and V2P on “PC5” interface¹, operating in ITS bands (e.g. ITS 5.9 GHz) independent of cellular network



1. PC5 operates on 5.9GHz; whereas, Uu operates on commercial cellular licensed spectrum 2. RSU stands for roadside unit.

Worldwide C-V2X Trials



Timeline for Deployment of C-V2X (V2V/V2I)

