5GAA support to V2X pilots and projects

Driving Europe's Connected Mobility Forward

5GAA brings together the automotive and telecommunications industries to accelerate the global deployment of Cellular Vehicle-To-Everything (C-V2X) as a first step towards a fully integrated intelligent transport system with 5G

AUTOMOTIVE INDUSTRY

Vehicle Platform, Hardware and Software Solutions

TELECOMMUNICATIONS

Connectivity and Networking Systems, Devices and Technologies

5GAA unites 90+ members* from around the world working together on all aspects of C-V2X including technology, standards, spectrum, policy, regulations, testing, business models and go-to-market

*as of Sept 2018

What is C-V2X (Vehicle to Everything)?

C-V2X is a comprehensive road safety and traffic efficiency solution that allows **vehicles** to communicate with

- Other vehicles (V2V),
- Pedestrians and Cyclists via smartphones (V2P),
- Road infrastructure (V2I),

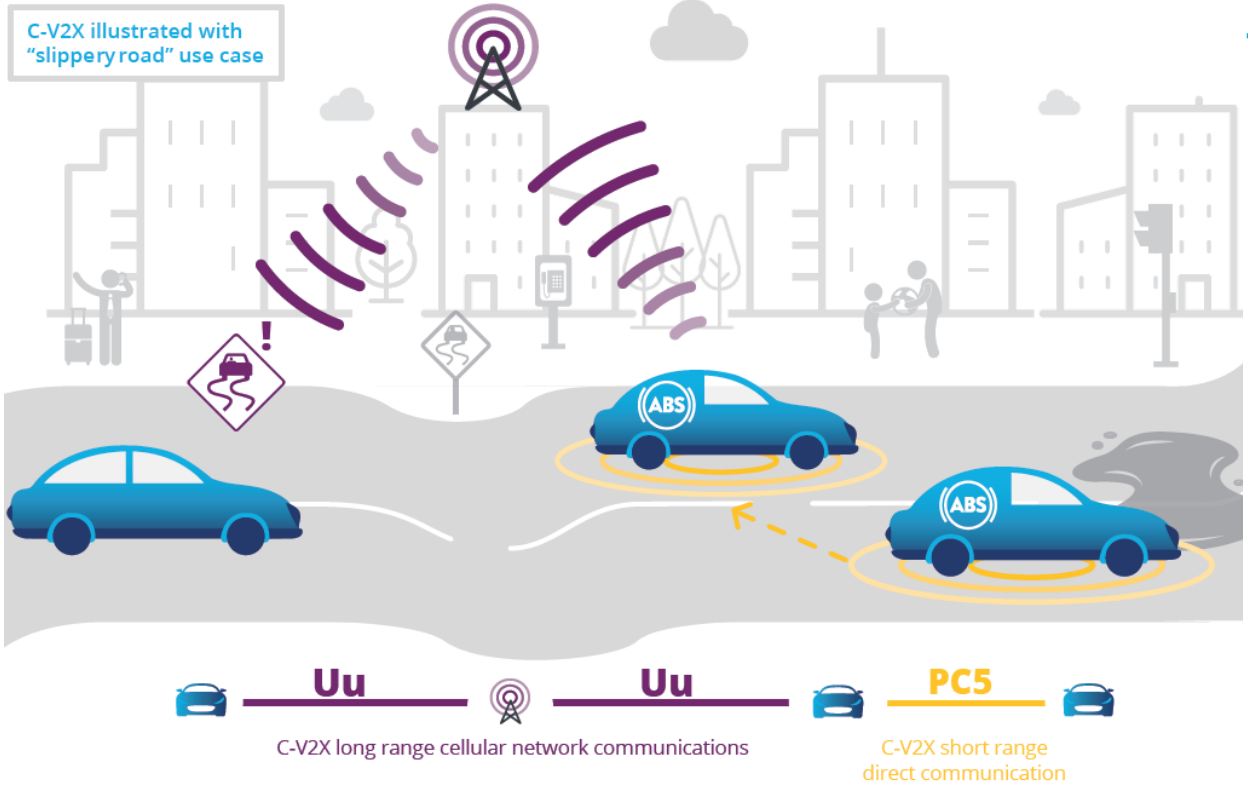
supported by the

- Mobile network (V2N)

to guarantee **full coverage** and **continuity of services.**

Why Cellular V2X (C-V2X)?

C-V2X is a future proof, comprehensive unified platform for connected vehicles, safety and transportation. C-V2X includes **both short-range direct communication through PC5**, and **long-range cellular network communication through Uu** – that are together paving the way to 5G.



C-V2X

- ALLOWS FOR LOW-LATENCY, DIRECT SAFETY, COMMUNICATION TO WORK WITHOUT NETWORK COVERAGE
- CAN OPERATE WITHOUT A SIM OR NETWORK ASSISTANCE
- ALLOWS LARGER SIGNAL PROPAGATION RANGE AND EARLIER WARNING
- IMPROVED LOCATION TRACKING WITH GLOBAL NAVIGATION SATELLITE SYSTEM (GNSS)
- CAN USE THE NETWORK TO ACQUIRE TIMING INFORMATION IF GNSS IS UNAVAILABLE
- CAN RELY ON OTHER CARS FOR SYNCHRONIZATION

5GAA proposal support principles
(send email to Liaison@5gaa.org)

1. 5GAA supports any proposal in line with the support criteria (see next slide)
2. Proposals may include the name of 5GAA in their proposal as a supporting organization
3. Formal signature of a LoS only after the proposal is accepted for funding.

Proposal for Criteria

- Alignment with the scope of 5GAA:
  - 5G technologies for automotive, transport and mobility
  - C-V2X specifications, tests and deployment; Conformance; Interoperability; Spectrum; MEC; Slicing; Security; Data Privacy
- Minimum of five* or 30% of 5GAA members
- Clear role for 5GAA:
  - Member of Advisory group;
  - Active contribution at project events (KoM, GA, workshops);
  - peer-review of Deliverables.
- Intention to exploit results within 5GAA

5GAA Automotive Association

For more information please contact:

5gaa-liaison@5gaa.org

or visit:

www.5GAA.org