The 5GAA, bridging the automotive and ICT Industries

Luke Ibbetson, R&D Director, Vodafone Group
5GAA Board Member
5GAA connects the telecom industry and vehicle manufacturers to work closely together for developing 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
From 8 founders in 2016 to >70 companies in Q1 2018
Cellular Vehicle-to-Everything (C-V2X)

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

C-V2X is a **unified technology platform** including:

- Short range direct communications (LTE-V2X PC5)
- Long range cellular network communications (LTE-V2X Uu)
5GAA’s EU policy recommendations for C-ITS

Legislation to specify connectivity requirements for C-ITS (including any ‘hybrid approach’ which equates 802.11p with short range applications and cellular with long range applications) would run contrary to the principles of the ITS Directive and go against the core principle of **technology neutrality** in Europe.

A policy of co-existence should be favoured. A study carried out for the 5GAA shows that **co-existence** of 802.11p and **C-V2X** at 5.9 GHz would deliver the highest **socio-economic benefits** (€43 bn), compared to scenarios where only one technology is mandated.

**Reduced infrastructure deployment costs** arising from re-use of existing mobile infrastructure are a further key benefit of C-V2X, leveraging cellular technology integration and economies of scale, rather than building independently operated roadside infrastructure.

Such an approach facilitates an **evolutionary path towards 5G** which represents the future of connected, cooperative and automated mobility.
5GAA Strategy

**New Radio**
“Define the next step” - accelerate definition of 5G-V2X based on 5G

**Push V2N**
Intense functional rollout of V2N based applications in order to reach broad penetration fast

**Joint Ecosystem**
Create a joint eco system car – smartphone - home

**Vehicle to Smart Device**
V2X-based vehicle interface for smartphone controlled functions

**Mobile Edge Computing**
Mobile Edge Computing as one of the key elements of the connected future

**Interoperability**
Make sure that cross OEM cars and cross operator networks can „speak“ with each other
Thank you!

For more information please contact:
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