



IoT WebTalk

How Can **C-V2X**

Create an Environment that
Improves Quality of Life for Everyone?



Road Traffic Accidents

In the top 10 causes of death globally across all age groups

1.35 million lives lost every year

Over 90% of vehicle collisions caused by human error

Over 500 Million Connected Cars on the Road by 2025

Yearly Benefits of Connected Cars by 2025

11,000 lives saved

260,000 fewer accidents

400,000 tones of CO₂ emissions avoided

280 million hours of driving saved



The Socio-Economic Benefits


- Increased safety for all traffic participants
- Improved traffic flow and reduced congestion
- More efficient driving
- Fewer emissions for a healthier environment
- New value-added services
- A more convenient lifestyle
- Improved quality of life for citizens






The Market Opportunity of Connected Vehicles

831 million
automotive
connections
by 2027*



USD 9 billion
connectivity
revenue by 2027

USD 81 billion
connected vehicle services
revenue by 2030**



20% of all IoT
connections

53%
of traditional cellular
IoT revenue



49% of traditional
cellular IoT
connections

* incl. those made by embedded SIMs and aftermarket devices in passenger vehicles | ** in US, Europe and China

Sources: Analysis Mason, 2019 | Strategy&, PWC, 2019



Why C-V2X?

- **Commercially available** globally, leveraging the secure and established 4G LTE network infrastructure
- Seamless and sustainable evolution from **4G to 5G** while upholding **backwards compatibility**
- Superior levels of **security, range, latency and reliability** that vastly exceed the capabilities of alternative solution DSRC/802.11p





Why C-V2X?

- Backed by a **global ecosystem** of 130+ leading mobile operators, vendors, automotive manufacturers, suppliers and companies from the wider industry
- C-V2X **security** is based on internationally recognised interoperable standards leveraging the security services provided by mobile networks, including eSIM
- **Mobile operators** are the experienced, trusted and licensed providers of an already established network infrastructure and are best placed to provide and manage connected vehicle solutions with the necessary scale, coverage, reliability and end-to-end security





What is the GSMA doing?

- The GSMA is working with mobile operators, automotive OEMs and suppliers, industry associations and regulatory bodies to accelerate the growth of the connected vehicle market by agreeing a common approach to security, regulatory and infrastructure solutions.
- To find out more, visit www.gsma.com/automotive

GSMA 5GAA Automotive Association

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Wednesday, 1 July 2020 | 10:00 BST | 11:00 CEST | 17:00 CST

The banner features a white car on a road at sunset, with a white radio tower icon on the right. The background is orange with a hexagonal pattern.

GSMA

CONNECTING VEHICLES
TODAY AND IN THE 5G ERA
WITH C-V2X (CELLULAR VEHICLE-TO-EVERYTHING)

www.gsma.com/automotive

The graphic shows a white car on a road at night, with a blue and purple hexagonal network pattern overlaid. The GSMA logo is in the top left corner.

10 min	C-V2X: Today and Next Steps	Maxime Flament, CTO, 5GAA
5 min	Building Partnerships to Enable Connected Mobility	Luke Ibbetson, Head of Group R&D, Vodafone
5 min	Connected and Automated Driving – Cellular Ecosystem Approach	Joachim Goethel, Senior Manager Project 5G Alliance, BMW
5 min	Enabling the C-V2X Ecosystem	Steve Schwinke, Global Head of Connected Vehicles, Tech Mahindra
30 min	Interactive Panel and Q&A	<p>Maxime Flament, CTO, 5GAA Luke Ibbetson, Head of Group R&D, Vodafone Joachim Goethel, Senior Manager Project 5G Alliance, BMW Steve Schwinke, Global Head of Connected Vehicles, Tech Mahindra</p> <p>Moderator: Dr Shane Rooney, Executive Director IoT Networks, GSMA</p>