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**5GAA – 5G Automotive  
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## Open statement

# Europe converging towards 5G-V2X including direct communications

The 5G Automotive Association (5GAA), representing more than 120 major industry organisations around the world, supports accelerating time-to-market of connected vehicles solutions for inclusive access to smarter, safer and environmentally sustainable services, integrated into intelligent road transportation and traffic management.

Globally, the automotive industry has started deploying 5G mobile network connectivity in production models<sup>1</sup> to enable new connected vehicle services.

In Europe, many Day 1 services have been deployed by carmakers leveraging mobile network communications and V2X first-generation communication technology.

Members of 5GAA now embrace the arrival to maturity of 5G-V2X including direct communications<sup>2</sup>.

As per 5GAA Visionary 2030 Roadmap, 5G-V2X is expected to be mass-deployed in commercial vehicle models starting from the time horizon 2026-2029<sup>3</sup>.

5G-V2X direct communication mode will be the future reference technology for automotive direct connectivity and an important enabler of automated driving.

5G-V2X direct communications will support messages relevant for advanced driving but also previous message types to deliver service continuity for basic safety services.

To achieve this, it is crucial that all services and messages remain agnostic to the technology choice as 5GAA acknowledges that the choice of radio technology for Day 1 services may vary across vehicle brands.

Looking forward, 5GAA members, including the vehicle manufacturers listed below, herewith publicly express their support to 5G-V2X direct communications, to pave the way towards automated driving.



<sup>1</sup> **BMW**, "[Connected car: enabler for future mobility](#)" (January, 2020), **Audi Media Center**, "[Why we are now equipping our vehicles with the new 5G mobile communications standard](#)" (August, 2021), **GM Newsroom**, "[General Motors and AT&T Set Automotive Connectivity Benchmark with 5G](#)" (August, 2021), **Qualcomm**, "[Ford Entering Next Generation Connected Vehicle Innovation with 5G Connectivity Powered by Snapdragon](#)" (September 2022)

<sup>2</sup> As defined in **5GAA**, "[A visionary roadmap for advanced driving use cases, connectivity technologies, and radio spectrum needs](#)", page 6 (November 2022)

<sup>3</sup> **5GAA**, "[A visionary roadmap for advanced driving use cases, connectivity technologies, and radio spectrum needs](#)" (November 2022)