

US DOT and 5GAA demonstrate cellular vehicle-to-everything technology to boost road safety

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The landmark event in Washington, DC, unveils the potential of C-V2X for enhancing road safety and efficiency

The US Transportation Department (US DOT), in collaboration with the 5G Automotive Association (5GAA), hosted a significant event at the Turner-Fairbank Highway Research Center to demonstrate the synergies between cellular vehicle-to-everything (C-V2X) direct communications and mobile network communications.



Source: Getty Images

This groundbreaking public-private initiative showcased the capabilities of connected-vehicle technologies to enhance road safety and efficiency. The event emphasized the importance of integrating various communication modes to create a unified transportation system, reflecting a commitment to leveraging V2X technology for nationwide deployment.

During the event, participants witnessed firsthand the advanced capabilities of C-V2X technologies. Verizon demonstrated how its mobile network communications and mobile edge computing (MEC) can deliver near real-time alerts for safer intersection navigation, pedestrian warnings and weather conditions. Audi, working alongside Spoke and the Coalition for Cyclist Safety, highlighted the potential of C-V2X direct communications in preventing cyclist fatalities through the integration of aftermarket solutions and in-vehicle systems. Autotalks' demonstration focused on preventing same-lane accidents, showing how C-V2X can enhance cyclist safety outside intersections.

The gathering also served as a platform for industry and government leaders to discuss key factors for the widespread deployment of C-V2X technologies, including the necessity of reauthorizing federal transportation funding. The discussions underscored the pivotal role of C-V2X in meeting the objectives of the DOT's National Roadway Safety Strategy and the industry's dedication to supporting the National V2X Deployment Plan, which was announced in August 2024.

This initiative has laid the groundwork for utilizing the extensive network of connected road users and expediting the deployment of connected-vehicle and connected-road infrastructure technologies across the nation. By doing so, it moves the US closer to the objective of eliminating traffic fatalities, aligning with the shared vision for safer American roads.

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