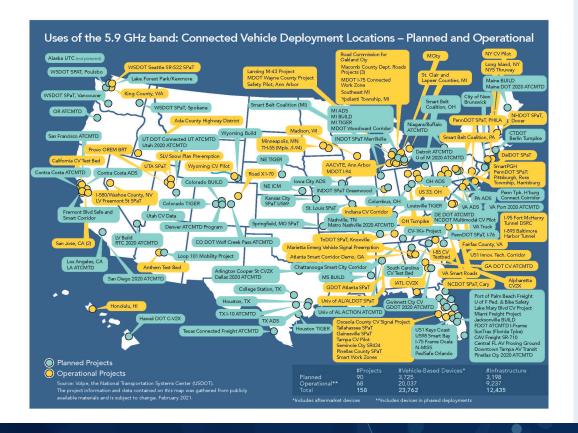# THE 5.9 GHZ SAFETY BAND

Where Is the Safety Band in Use?

The Safety Band is already used by state transportation departments for vehicle-to-vehicle (V2V) and pedestrian collision avoidance; transit priority; traffic monitoring and congestion detection; traveler alerts; and snow plow and emergency vehicle traffic signal preemption.

There are currently 158 planned or operational connected vehicle deployment locations in the United States, all of which use the Safety Band.

More than 18,000 vehicles are deployed with aftermarket vehicle-to-everything (V2X) communications devices. Over 1,000 infrastructure V2X devices have been installed at the roadside in 25 states.

The U.S. Department of Transportation released *Preparing for the Future of Transportation: Automated Vehicles 3.0* in 2018, highlighting a three-phase research plan that is currently underway. It was developed collaboratively with the Federal Communications Commission and U.S. Department of Commerce to "explore spectrum-sharing technology that maintains priority use for vehicle communications."

Uses of the 5.9 GHz band: Connected Vehicle Deployment Locations – Planned and Operational

	#Projects	#Vehicle-Based Devices*	#Infrastructure
Planned	90	3,725	3,198
Operational**	68	20,037	9,237
Total	158	23,762	12,435

*Includes aftermarket devices   **Includes devices in phased deployments

Source: Volpe, the National Transportation Systems Center (USDOT). The project information and data contained on this map was gathered from publicly available materials and is subject to change. February 2021.

U.S. Department of Transportation