

V2X SUMMIT SPEAKER

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WSP USA



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



- Planned Projects
- Operational Projects

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. June 2022.

	#Projects	#Vehicle-Based Devices*	#Infrastructure
Planned Sites	101	3,743	3,627
Operational Sites**	70	20,174	9,648
Total	171	23,917	13,275

*Includes aftermarket devices

**Includes devices in phased deployments

Connected Vehicle Pooled Fund Study

a partnership of transportation agencies who have established a program to facilitate the development and evaluation of Connected Vehicle applications.

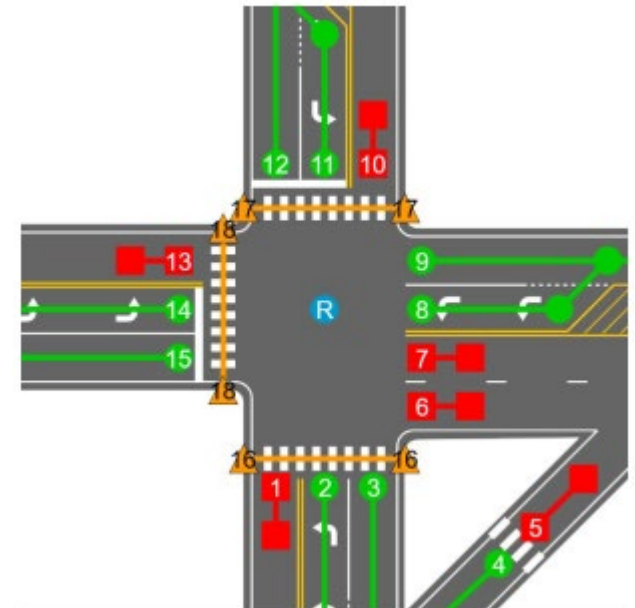


Alaska, Arizona, California, Colorado, Connecticut, Delaware, FHWA, Florida, Georgia, Illinois, Maricopa County, Maryland, Michigan, Minnesota, New Hampshire, New Jersey, Ohio, Pennsylvania, Tennessee, Texas, Transport Canada, Utah, Virginia, and Wisconsin

CV PFS - Past Projects

CV Deployment & Operational Research

- CV certification program
- Aftermarket OBUs
- CV data and the TMC of the future
- Surveying and mapping requirements for CVs
- Basic Infrastructure Message (BIM)
- V2I Queue Advisory/Warning Program



Source: CV PFS, Map Guidance Document

CV PFS - Past Projects

CV at Intersections

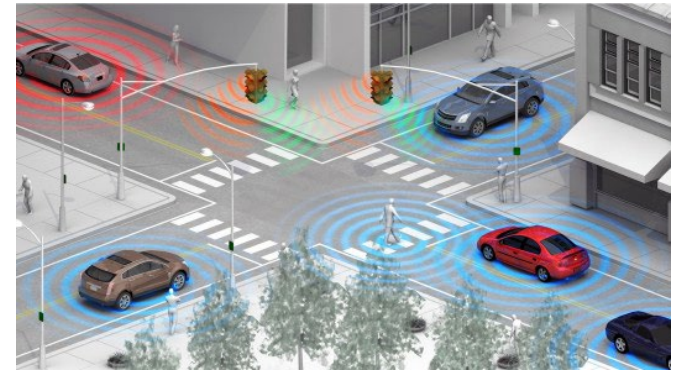
- New traffic signal control algorithm
- Use cases for SPaT data
- Connected Traffic Control Systems
- Multi-Modal Intelligent Traffic Signal System Program

CV for Maintenance & Weather

- CV data for IRI estimates (roughness) and detect/map potholes
- Application for fleet vehicles capturing and delivering road and weather condition data

CV PFS - Recent/Current Projects

- Best practices for the creation of MAP messages
- Connected-ready intersections
- Message validation tool
- Primer for CV Data Architectures
- V2I Queue Advisory/Warning Prototype



Source: National Operations Center for Excellence

Connected Vehicle Pooled Fund Study Website: <https://engineering.virginia.edu/cv-pfs>

Collaboration and Coordination

- National Cooperative Highway Research Program
- Transit Cooperative Research Program
- Cooperative Automated Transportation Coalition
- Industry Associations and Committees

*Coming together is a beginning.
Keeping together is progress.
Working together is success.*
- Henry Ford