

AASHTO INTERNATIONAL DAY

Panel 1: The Research, Policy Legislative, and Regulatory Framework Related to Cooperative Automated Transportation

Intelligent Transportation
Systems Joint Program Office



October 21, 2019

U.S. Department of Transportation



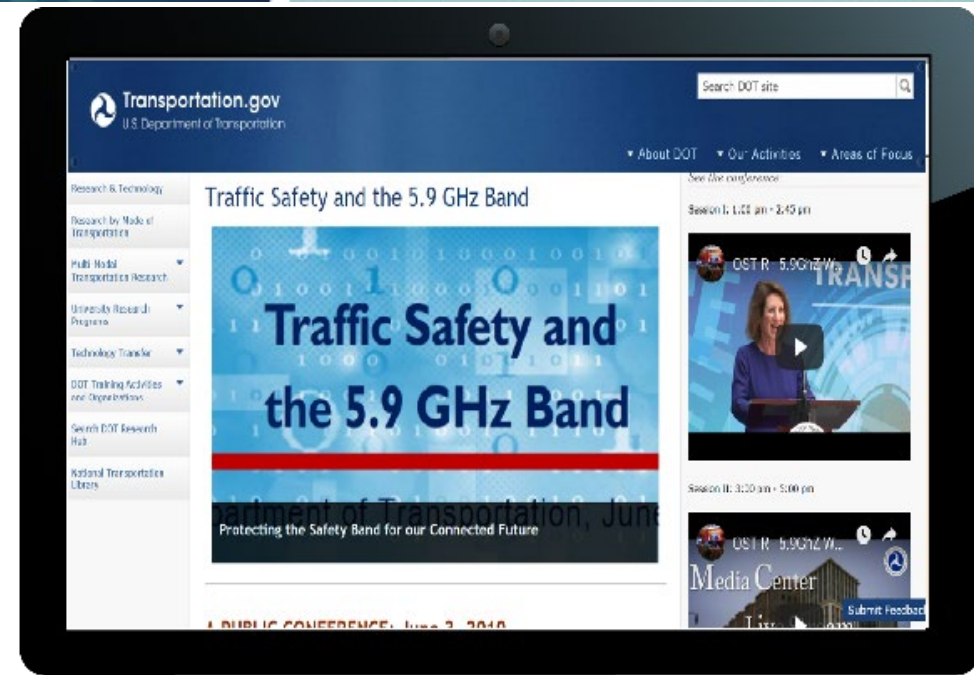
COOPERATIVE TECHNOLOGIES

PROTECTING THE SAFETY BAND — 5.9GHZ BAND



Our approach to protecting the Safety Band includes the following activities:

- Applied Research
- Safety Application Testing
- Stakeholder Partnerships
- Information Sharing
- Encourage Deployment and Use for Increased Traffic Safety



COOPERATIVE TECHNOLOGIES

IMPORTANCE OF THE SAFETY BAND



WHAT THE SAFETY BAND IS USED FOR:

- Traffic light control
- Traffic monitoring
- Traveler alerts
- Automatic toll collection
- Traffic congestion detection
- Emergency vehicle signal preemption of traffic lights
- Electronic inspection of moving trucks via data transmissions with roadside inspection facilities
- Red-light violation warnings
- Reduced speed zone and curve speed warnings
- Spot weather-impact warnings and other safety-critical applications.



With over **37,000** deaths on our nation's roads every year, it is critical that efforts to free up additional spectrum do not come at the expense of life-saving technologies.

**CONNECTED VEHICLE PILOTS ACHIEVE
INTEROPERABILITY AND REAL-WORLD OPERATION**

**AND DEMONSTRATE SUCCESSFUL USE OF THE
ITS DATAHUB, SCMS, CERTIFICATION, AND
PCB TRAINING.**

Wyoming Connected Vehicle Pilot



Tampa Connected Vehicle Pilot



New York City Connected Vehicle Pilot

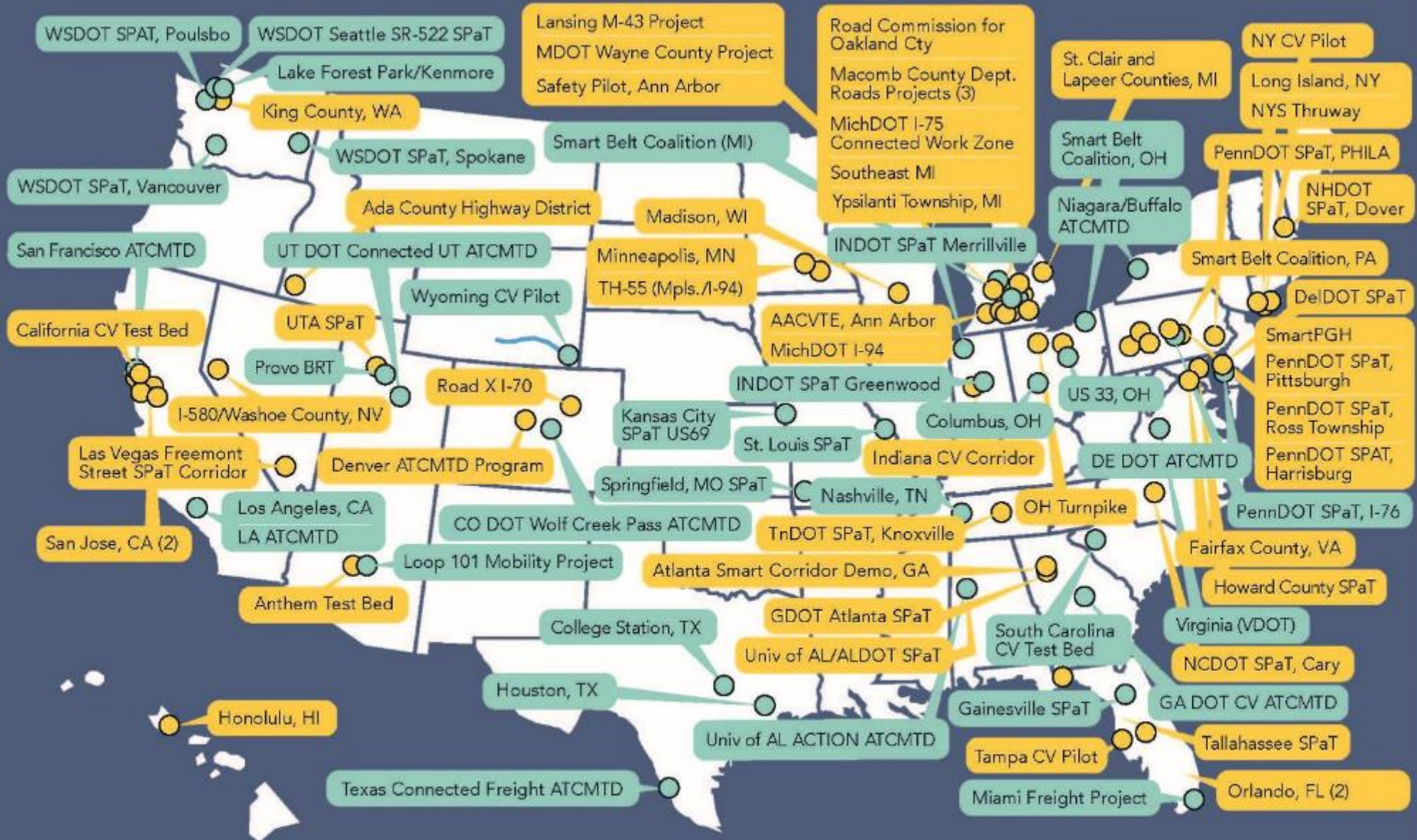


NYC Connected Vehicle Project
For Safer Transportation



WIDESPREAD DEPLOYMENT

There are now over 87 operational and planned connected vehicle deployment locations.



- Planned Projects
- Operational Projects

Source: Volpe, the National Transportation Systems Center (USDOT). May 2019.
The project information and data contained on this map was gathered from publicly available materials and is subject to change.

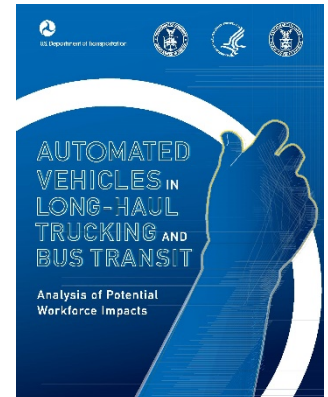
	#Projects	#Devices*	#Infrastructure
Planned	35	3,266	802
Operational**	52	15,435	6,086
Total	87	18,701	6,888

*Includes aftermarket devices

**Includes devices in phased deployments

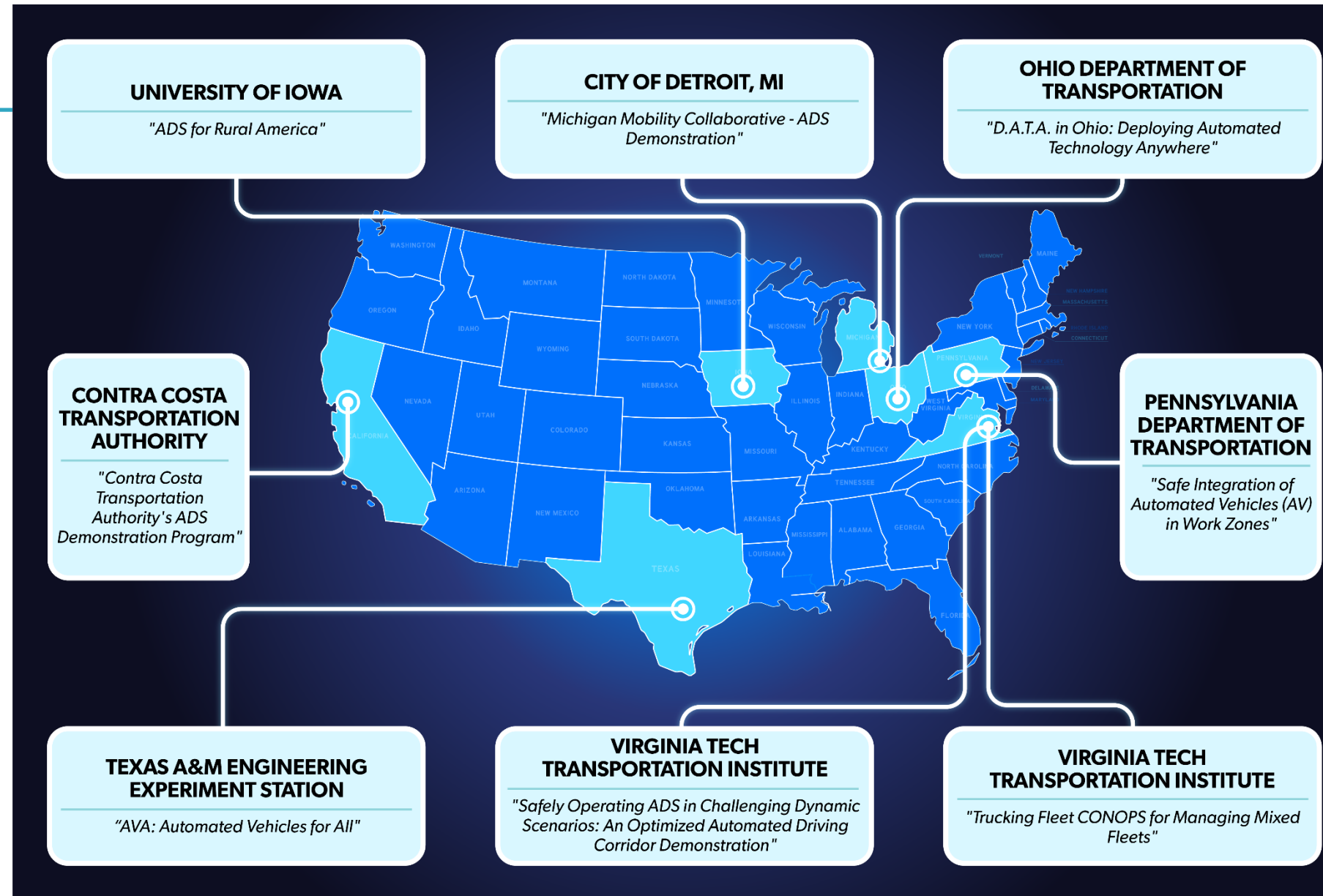
USDOT AUTOMATION ACTIVITIES

- *Preparing for the Future of Transportation: Automated Vehicles 3.0 (AV 3.0)*
- National Dialogue on Highway Automation
- Data for Automated Vehicle Integration (DAVI)/Work Zone Data Exchange
- *Automated Vehicles in Long-Haul Trucking and Bus Transit: Analysis of Potential Workforce Impacts Report*
- Automated Driving System Demonstration Grants



ADS GRANTS

The U.S. DOT announced nearly \$60 million in federal grant funding to eight projects in seven states to test the safe integration of ADS on our nation's roadways.



WHERE DO WE GO FROM HERE?

ITS Strategic Plan 2020-2025

Highlights:

- Spectrum Research
- Artificial Intelligence and Machine Learning
- Data Access and Exchange
- Complete Trip
- Deployment of ITS



DISCUSSION

