



Volpe, The National Transportation Systems Center

# Center for Advanced Transportation Technologies

The Center for Advanced Transportation Technologies is dedicated to exploring innovative applications of advanced communications, navigation, and information technologies to enhance transportation safety, mobility and energy/environmental performance. We focus on vehicle crash avoidance, electronic systems safety and resilience, technology assessment, field test and evaluation, and strategic planning and research program management.



U.S. Department of Transportation  
**Research and Innovative Technology Administration**

John A. Volpe National Transportation Systems Center

## What We Do

### Technology Innovation and Policy

The Technology Innovation and Policy Division develops policies, strategies, and analytical tools for successful deployment of advanced transportation system technologies.

### Advanced Vehicle Technology

The Advanced Vehicle Technology Division evaluates and facilitates the development of advanced technologies and systems to ensure and enhance the safety of motor vehicles and transportation systems.

## Our Capabilities

- Advanced research program planning and management
- Modeling and simulation of surface transportation systems
- Connected transportation policy and institutional issues research
- Advanced vehicle safety systems evaluation
- Bike and pedestrian crash avoidance systems
- Safety benefit assessment of vehicle-to-vehicle Communications

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- Safety and reliability of electronic control systems
- Performance recommendations and objective tests of advanced safety systems
- Innovative research strategies and challenges

## Our Sponsors

- Federal Highway Administration
- Federal Motor Carrier Safety Administration
- Federal Transit Administration
- Research and Innovative Technology Administration's Intelligent Transportation System (ITS) Joint Program Office
- National Highway Traffic Safety Administration
- Office of the Secretary of Transportation's Office of Small and Disadvantaged Business Utilization and participating U.S. DOT agencies:

*Federal Aviation Administration*

*Federal Highway Administration*

*Federal Transit Administration*

*Federal Motor Carrier Safety Administration*

*Pipeline and Hazardous Materials Safety Administration*

*National Highway Traffic Safety Administration*

*Research and Innovative Technology Administration*

## Technical Centers at Volpe

- Transportation Policy and Planning
- Safety Management Systems
- Environmental and Energy Systems
- Transportation Logistics and Security
- Infrastructure Systems and Engineering
- Air Traffic Systems and Operations
- Human Factors Research and System Applications
- Advanced Transportation Technologies

## Contact Us

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ITS connects multiple types of users. The Volpe Center provided technical and project management support to the IVBSS program, a single, integrated crash warning system that enhances the safety of both light vehicles and heavy trucks.

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