ITS JPO DATA ACCESS CENTER OF EXCELLENCE

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ITS JPO ROLE AND PORTFOLIO

Intelligent Transportation Systems Joint Program Office

- Office of the Assistant Secretary for Research and Technology
- Federal Highway Administration
- Federal Railroad Administration
- National Highway Traffic Safety Administration
- Federal Transit Administration
- St. Lawrence Seaway Development Corporation
- Federal Motor Carrier Safety Administration
- Maritime Administration

Automation | Data Access and Exchanges | Cybersecurity | Emerging/Enabling Technologies | Accelerating Deployment | Safety Band | Complete Trip

Connected, Automated, Smart Transportation Systems
ITS JPO DATA ACCESS CENTER OF EXCELLENCE (COE)

Overview
• Promote data access and use across the ITS research portfolio
• Operationalize existing data access policies and systems
• Pilot best practices, standards, templates, & data storage & discovery capabilities within ITS JPO that can be scaled Department-wide

Benefits
What insights can users gain from timely access to quality data from ITS research projects?

Requirements
What must projects do to maximize data access while protecting privacy?

Infrastructure
What data management infrastructure is needed to enable open & restricted data access?

Costs
What is the level of effort for implementing data access requirements?
ITS DATA MANAGEMENT AND USE

Three open data platforms are available via the ITS JPO:

- **ITS DataHub** – Public portal for DOT’s ITS research data, including connected vehicle data
- **ITS CodeHub** – Public portal for open-source, reusable ITS software code
- **Secure Data Commons** – Cloud-based analytics platform for collaboration on research, tools, algorithms, analysis, and more around sensitive datasets
DATA FOR AUTOMATED VEHICLE INTEGRATION (DAVI) INITIATIVE

- Access to data is a critical enabler for the safe, efficient, and accessible integration of automated vehicles (AVs) into the transportation system. Lack of access to data could impede AV integration and delay their safe introduction.
- USDOT launched DAVI as a multimodal initiative to identify, prioritize, monitor, and – where necessary – address data exchange needs for AV integration across the modes of transportation.
- Through DAVI, we can experiment with new approaches and scale what works via policies, investments, and messaging.
Jumpstarts the voluntary adoption of a basic work zone data specification through collaboration with data producers and data users
WZDX DEMONSTRATION GRANTS

Funding for public roadway operators to make unified work zone data feeds available for use by third parties and collaborate on the WZDx specification development.

- **Total Funding**: $2.4 million
- **Number of Awards**: Up to 12
- **Potential Award Amounts**: Up to $200,000 each
- **Period of Performance**: 12 months
- **Cost Share**: 20% Non-Federal Share
- **Federal Involvement**: Performance monitoring, technical guidance, and participation in status meetings, workshops, and technical group discussions.
ITS PCB PROGRAM OVERVIEW

• Build and sustain a capable and technically proficient ITS workforce

• Provide comprehensive, accessible, flexible ITS learning for the transportation industry

• Focus on current and future transportation professionals—developing their knowledge, skills, and abilities while furthering career paths
ITS PCB SUPPORT SERVICES/TECHNICAL ASSISTANCE

Equipment Loan Program
Provides a connected and automated vehicle user with the opportunity to become familiar with the types of equipment typically used in connected vehicle deployment.

Help Desk
Provides technical assistance during connected vehicle and automated vehicle testing and deployments

Peer Program
ITS Peer-to-Peer Program (P2P) provides free short-term technical assistance to eligible organizations facing ITS planning, procurement, deployment and operational challenges

• ITS DataHub: https://its.dot.gov/data/
• ITS CodeHub: https://its.dot.gov/code/
• Secure Data Commons: https://its.dot.gov/data/secure/index.html
• WZDx Web Site: https://www.transportation.gov/av/data/wzdx
• DAVI Web Site: https://www.transportation.gov/av/data
• ITS PCB Technical Assistance: https://www.pcb.its.dot.gov/CAVSupportServices.aspx
• FHWA Data Elements (Please reuse where possible!): https://www fhwa dot gov/datagov/dataelements.cfm
THANK YOU

We welcome your feedback on the ITS JPO Data Access Center of Excellence.

Email us at data.itsjpo@dot.gov.