State of ITS:

Saving Lives with Connectivity

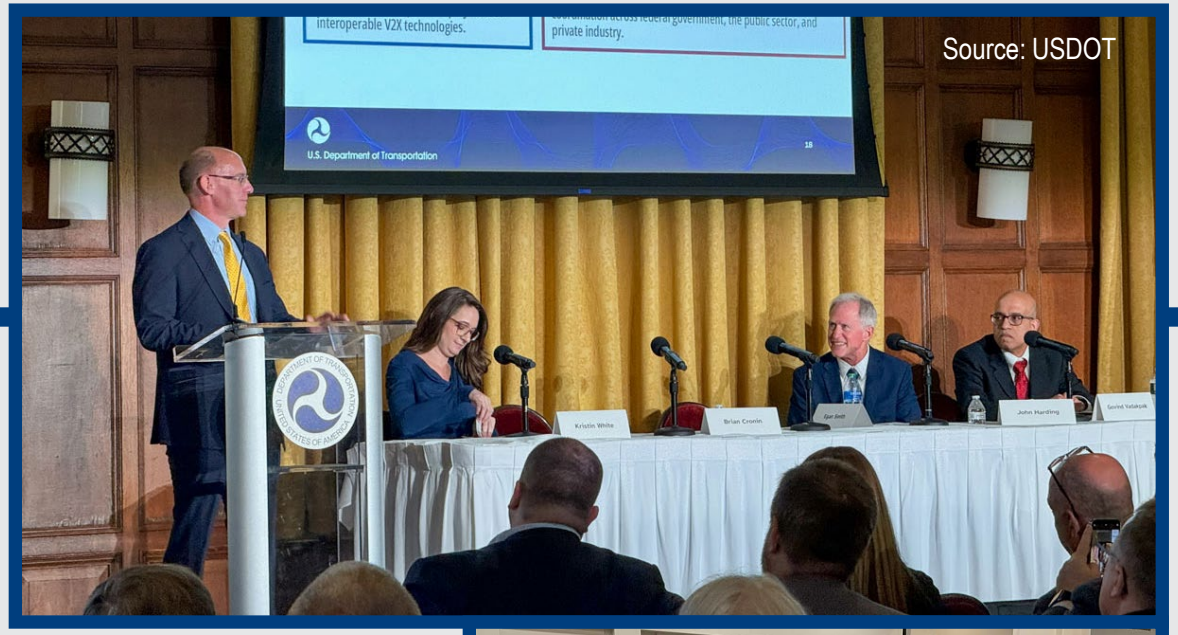
Innovation through Collaboration

presented by:
Brian Cronin, Director

U.S. Department of Transportation
Intelligent Transportation Systems Joint Program Office

Our Vision

- Innovation Through Collaboration
- Deliver Equitable Deployment
- Engage Externally and Internally



Source: USDOT

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Where We Are Headed

- Innovation
  - Intersection Safety Challenge
  - Connected and Automated Vehicles
  - Artificial Intelligence
- V2X Deployment
- Accelerating ITS Deployment
  - Smart Community Resource Center
  - Cross-Cutting Programs and Resources

Source: iStock by Getty Images

Innovation

Intersection Safety Challenge

VISION: Transform intersection safety through innovation.

HOW: Prize competition with 120 concept papers submitted.

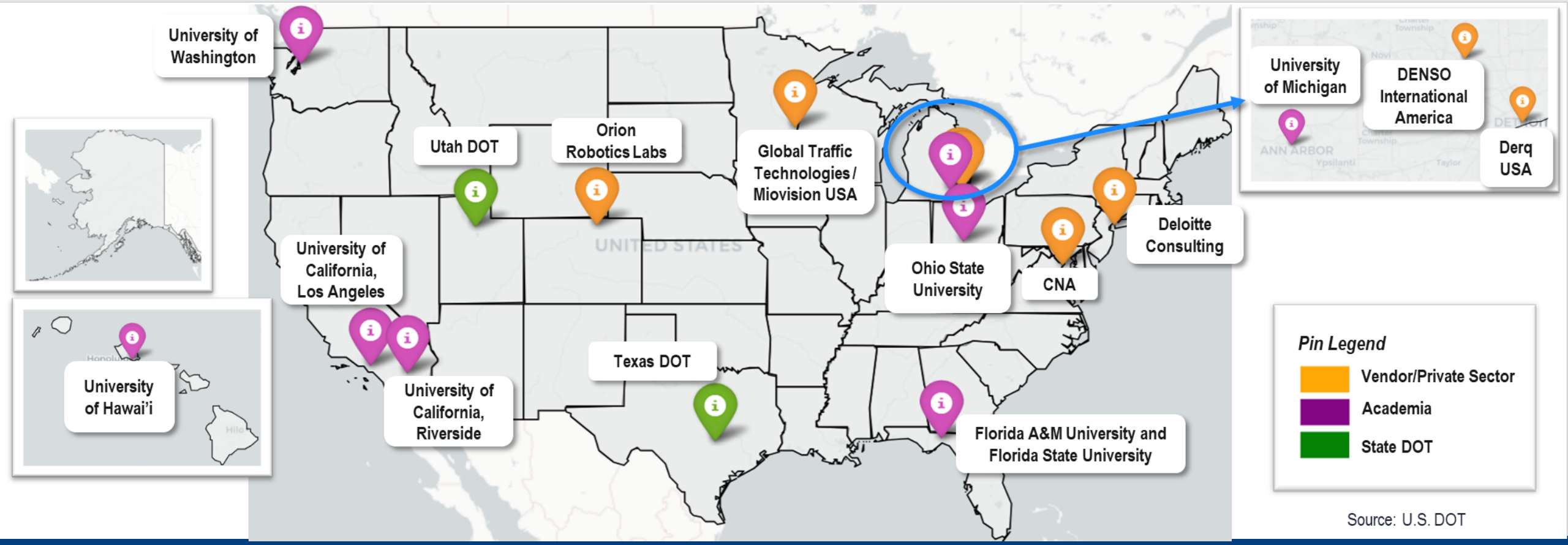
LEARN MORE AT:
https://its.dot.gov/isc/

Concept Illustration: Intersection Safety System

Source: USDOT

Intersection Safety Challenge Stage 1A Winners*

** Names represent Concept Paper submission Lead Entities that may be part of a larger team*



ITS JPO Automation Program

- ITS JPO is looking at interoperable connectivity, next-gen wireless testing, and automation together.

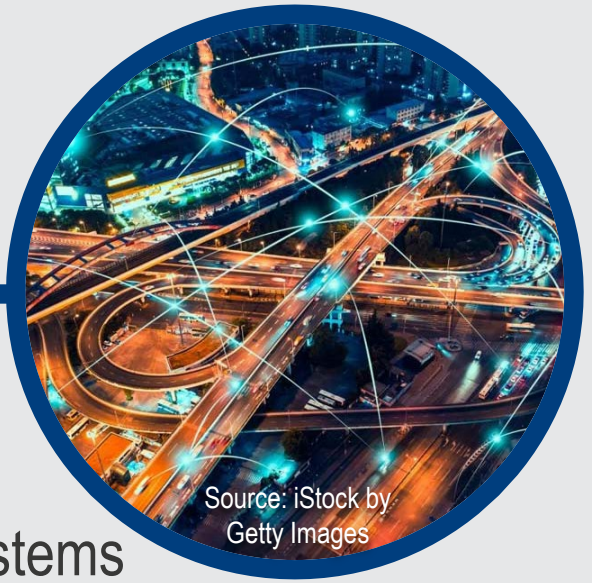
- ITS JPO is developing an Automation Program Plan.
  - Cooperative Driving Automation (CDA)
  - Human factors
  - Digital infrastructure

CDA SunTrax Testing and Collaboration

An Open-Source Success Story

Video Credit: Federal Highway Administration

Artificial Intelligence in Transportation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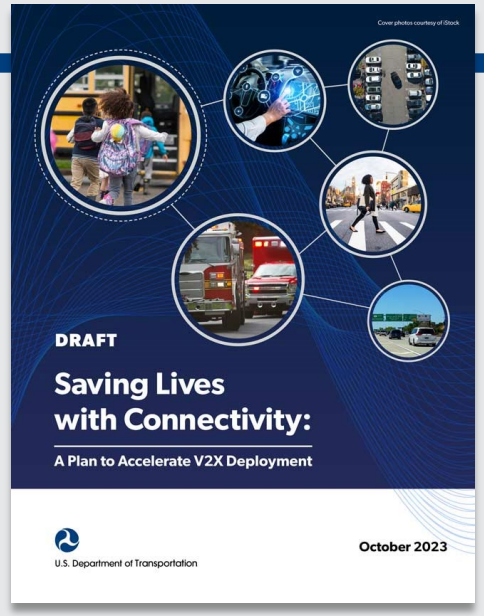
- USDOT is applying AI to transportation by:
  - Enabling the safe integration of AI into the transportation system, including as a foundational technology in many automated driving systems and unmanned aircraft systems.
  - Adopting and deploying AI-based tools into internal operations, research, and citizen-facing services.
  - Applying AI to transportation system management, enabling next-level monitoring, control, decision-making, and eventually automated operation to enhance mobility, safety, and efficiency for road users.

V2X Deployment



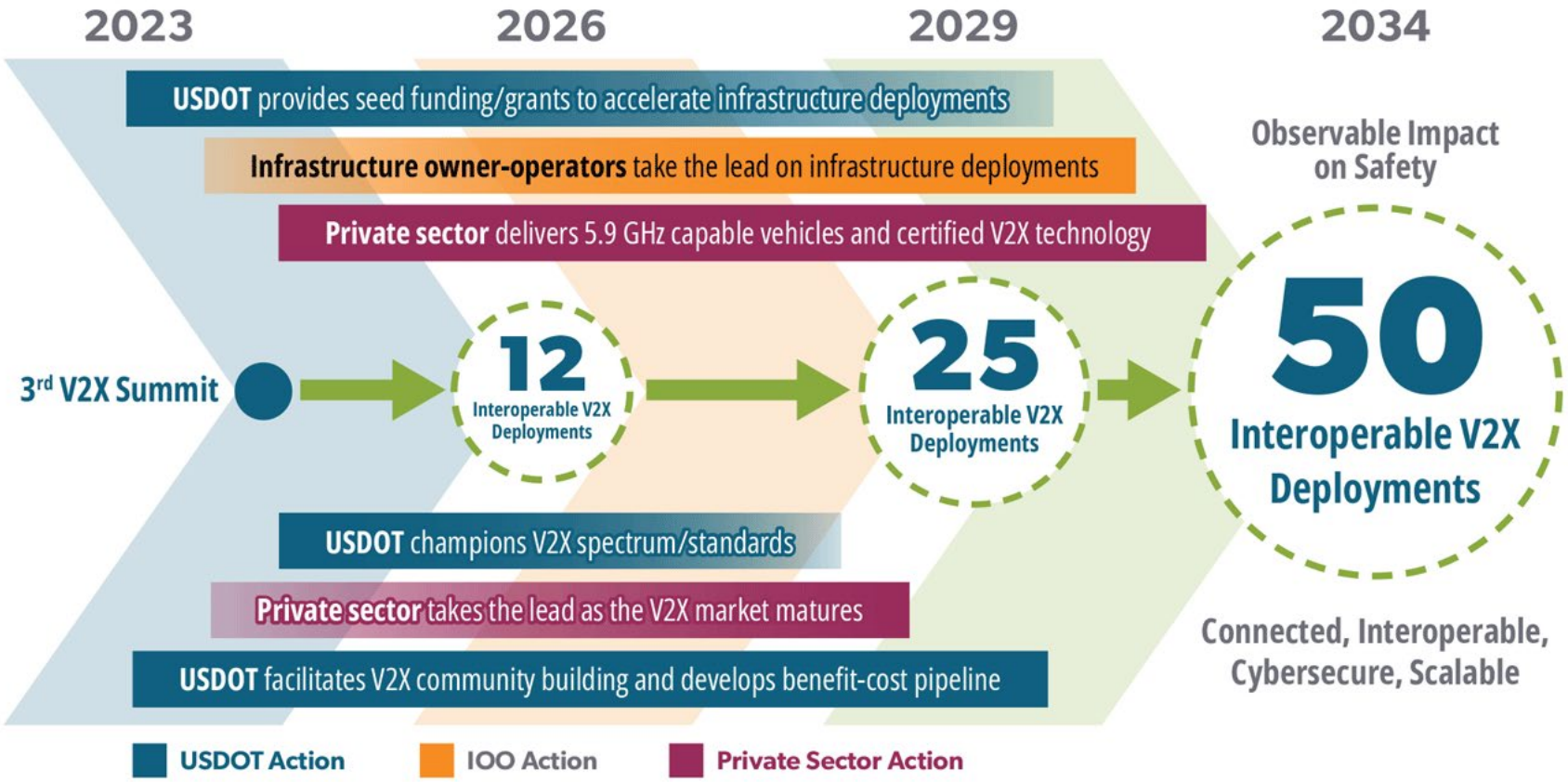
DRAFT: Saving Lives with Connectivity: A Plan to Accelerate V2X Deployment

Accepting feedback via v2xdeploymentplan@dot.gov through January 31, 2024

Saving Lives with Connectivity: Accelerating Vehicle-to-Everything (V2X) Deployment Notice of Funding Opportunity

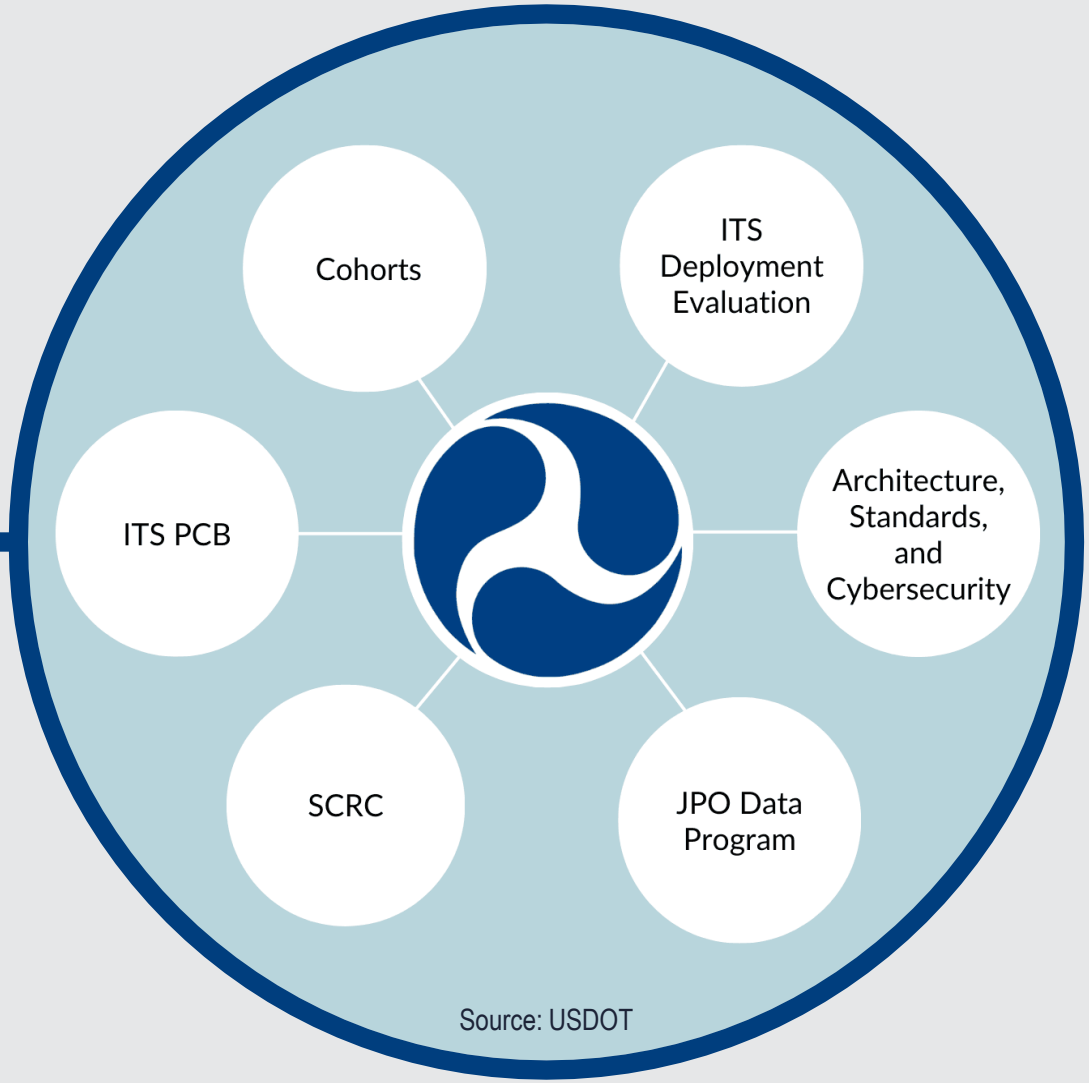
Applications due January 17, 2024

V2X Deployment: Creating Momentum Through Coordinated Stakeholder Actions

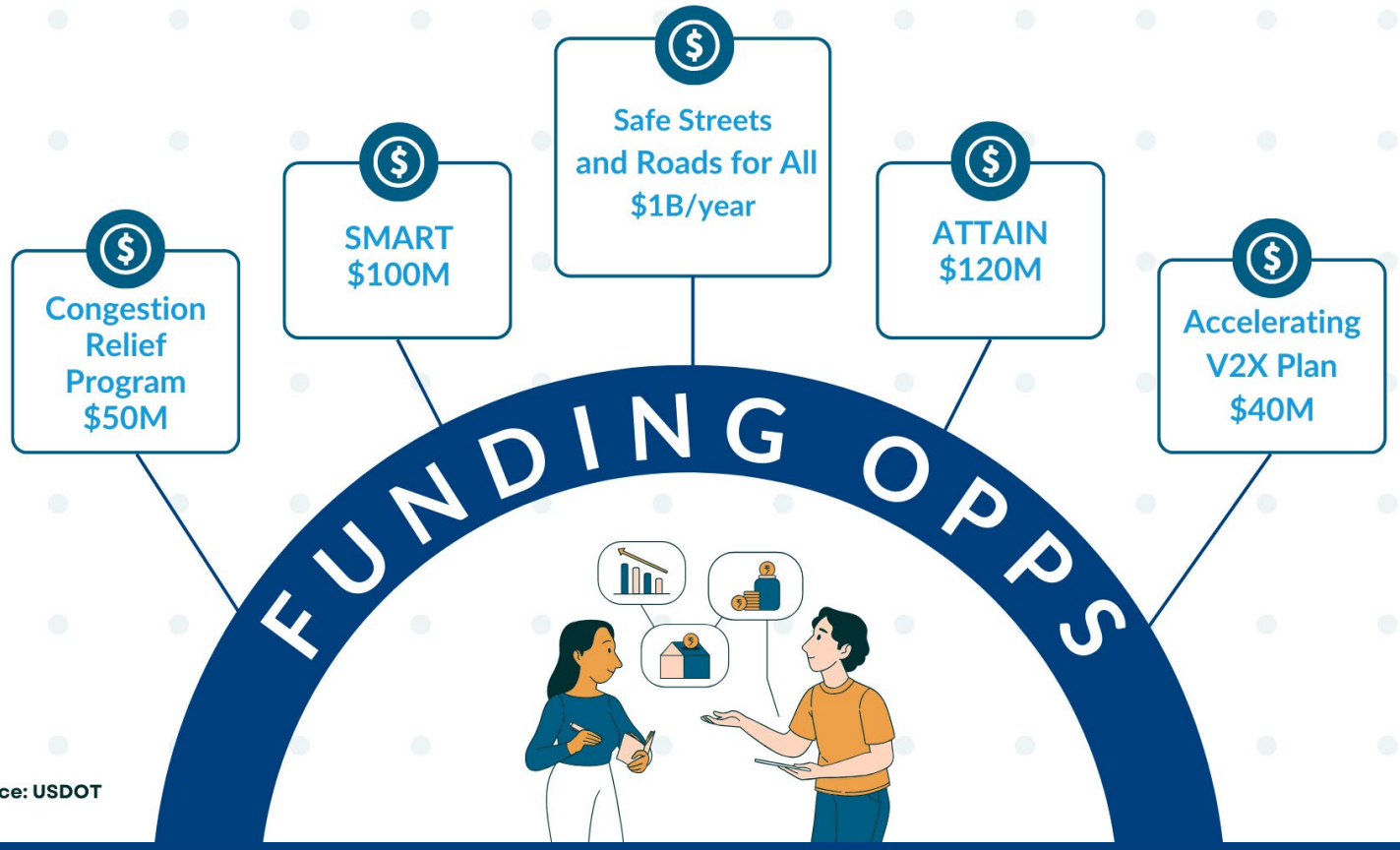


Source: USDOT

Accelerating ITS Deployment



Funding Opportunities



Source: USDOT

Smart Community Resource Center

- As required by BIL, supports information and technical assistance related to ITS and smart community deployments, including grants that involve ITS such as SMART and ATTAIN.
- The site will evolve over time to continue being a source of current information, data and tools to support ITS investments.

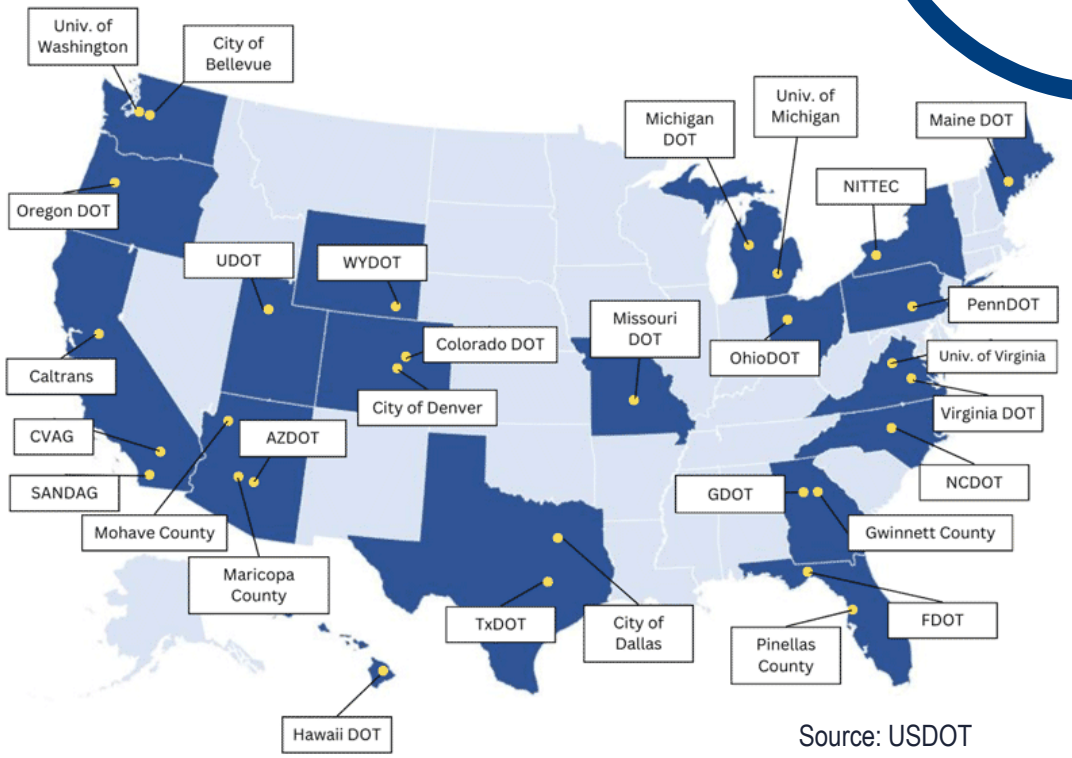
www.its.dot.gov/scrc

Source: USDOT

Accelerating V2X Cohort

ITS PROFESSIONAL CAPACITY BUILDING

- 30+ active deployer local and state agencies.
- Collaborating to accelerate the adoption and deployment of interoperable V2X technologies.
- Sharing their experiences, challenges, best practices, and documentation.
- Addressing technical implementation questions among cohort members.



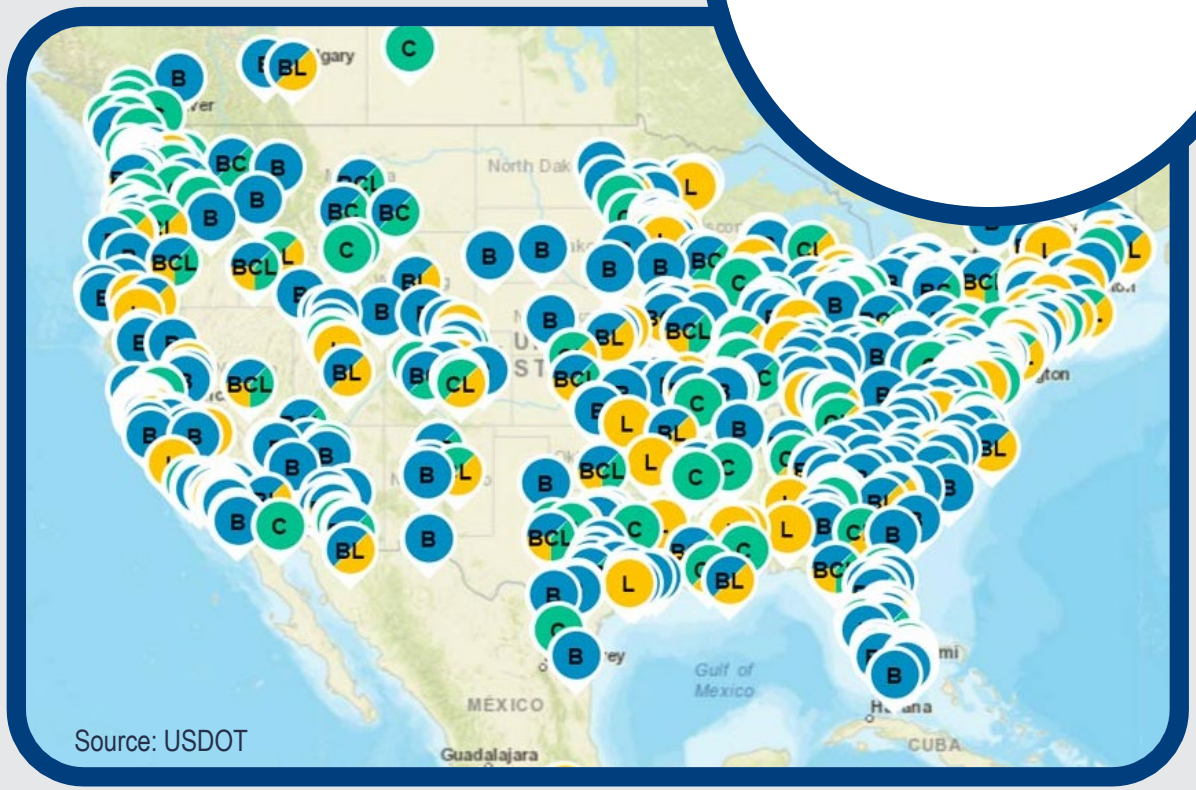
Source: USDOT

NEW: ITS Benefits, Costs, and Lessons Learned Map

Search by:

- Keyword
- ITS topic
- Goal area
- CV category
- Result type (modeled or deployed)

www.itskrs.its.dot.gov/its-map



ITS Program Advisory Committee (ITSPAC)

- Provide expert advice and recommendations on ITS deployment, emerging trends and technology, and industry challenges.
- Strengthen the USDOT ITS research portfolio and enhance the development and implementation of ITS across the Nation.
- Share real-world and academic expertise on ITS and emerging transportation topics.

Source: iStock by Getty Images

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Contact Information

Brian Cronin

Director,
Intelligent Transportation Systems
Joint Program Office

Brian.Cronin@dot.gov

Source: USDOT

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