Photo source: U.S. DOT

The Intelligent Transportation Systems (ITS) Joint Program Office (JPO) leads pioneering research and development as well as evaluation of next-generation ITS to enhance the safety, efficiency, and accessibility of surface transportation. As research initiatives move from development and testing into implementation, the ITS JPO is committed to supporting the transfer of information and results from initial research, pilots, and deployments to a broader audience of transportation stakeholders and innovators and accelerating the adoption of technologies.

ITS JPO High-Priority Research Areas

- Automation
- Data Access and Exchanges
- Emerging and Enabling Technologies
- Cybersecurity for ITS
- ITS4US Deployment
- Accelerating ITS Deployment

ACCELERATING ITS DEPLOYMENT

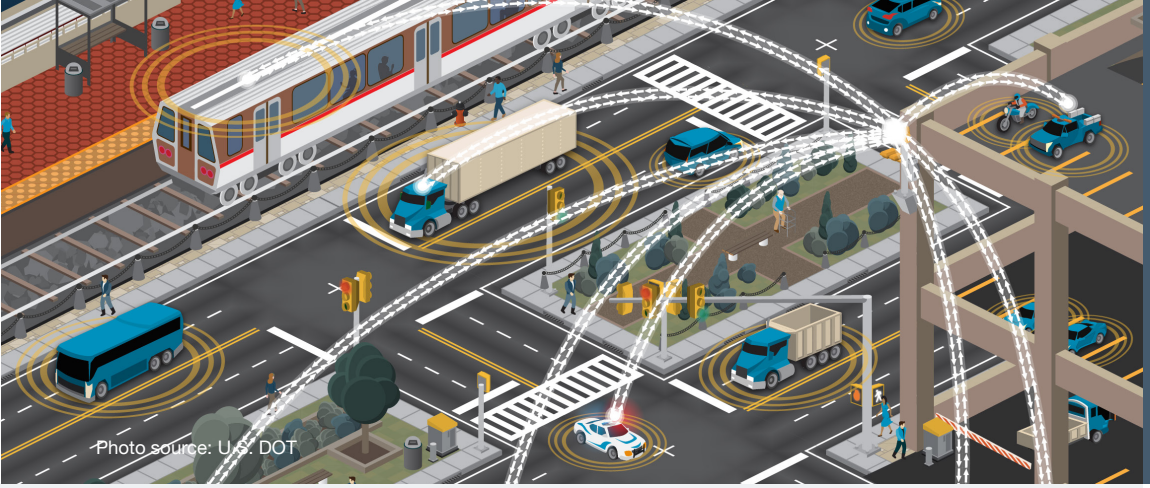
As new intelligent transportation systems (ITS) technologies evolve into market-ready products, the primary goal of the Accelerating ITS Deployment program is to provide research, analytics, and technical services that support adoption and deployment of ITS technologies. The objectives are to:

1. Speed up the transformation of ITS research and prototypes into market-ready technologies that are commercially viable and adopted by the transportation community.
2. Provide the ITS community with the tools needed for successful and interoperable deployment of ITS technologies and systems across the nation. The program directly supports advancing ITS research and deployment activities from a life cycle perspective, from initial deployment planning to actual deployment and eventual assessment in coordination with other stakeholders at the federal, state, regional, and local levels.

ITS JPO has four technology transfer programs under Accelerating ITS Deployment:

- ITS Professional Capacity Building (PCB)
- ITS Architecture and Standards
- ITS Communications and Outreach
- ITS Deployment Evaluation.

These programs provide communication and educational support to facilitate awareness, understanding, acceptance, adoption, and deployment of ITS technologies across stakeholder groups and ensure effective partnerships are fostered and developed at various levels including executive, program, and project. They provide knowledge transfer and support technical assistance, training, outreach, program evaluation, and other stakeholder engagement. Together, these programs advance ITS research to initial adoption and subsequently on to wider-scale deployment in coordination with other stakeholders at the federal, state, regional, and local levels.



Alignment with U.S. DOT Strategic Goals

Safety

Economic Strength and Global Competitiveness

Equity

Climate and Sustainability

Transformation

Organizational Excellence

ACCELERATING ITS DEPLOYMENT: **PROGRAM AREAS**

ITS PCB

As connected and automated vehicle technologies progress, the workforce will need new knowledge, skills, and abilities to drive implementation. The ITS PCB program develops training courses to advance the ITS workforce as well as webinars, in-person workshops, and other forms of training to educate current and future transportation professionals.

ITS Architecture and Standards

This program makes both regional and project-planning software tool sets available as well as a reference architecture with over 130 user services. It also identifies interfaces for standardization and recommends suitable standards, highlighting and enabling multiple suitable technology choices whenever viable. The program also conducts extensive implementation support activity, providing technical support along with systems engineering and architecture implementation workshops to both state and local organizations.

ITS Communications and Outreach

The Communications and Outreach program accelerates deployment through targeted market opportunities and tailored ITS products. The program is a key factor in establishing partnerships that result in knowledge sharing and transfer of next-generation ITS to the commercial marketplace. It also educates the public and provides stakeholders with the tools they need to promote deployment of ITS technology.

ITS Deployment Evaluation

The ITS Deployment Evaluation program provides data-driven and evidence-based products and services to the ITS stakeholder community. The program will continue to generate data and analyses related to the benefits, costs, and extent of deployed ITS. These data have been instrumental in understanding trends in ITS technology deployment and emerging priorities in agency ITS deployment plans. The program focuses on putting communities and people first by addressing a full spectrum of stakeholder data needs related to the foundational elements of successful ITS deployment and the full ITS deployment lifecycle. The program develops data-based products and tools to serve as a launch point for more engagement with ITS deployment and evaluation data to help enable successful, effective, and interoperable ITS deployments and demonstrate that ITS deployment is a sound investment. The program also provides resources and tools to support effective and meaningful evaluations of ITS deployments, pre- and post-investment.

HOW TO GET INVOLVED

- **ARCHITECTURE REFERENCE FOR COOPERATIVE AND INTELLIGENT TRANSPORTATION**
  Access a framework for planning, defining, and integrating ITS
  https://local.iteris.com/arc-it/index.html
- **ITS PROFESSIONAL CAPACITY BUILDING**
  Take advantage of training, education, and resources
  www.pcb.its.dot.gov/courses.aspx
- **ITS DEPLOYMENT EVALUATION**
  Download summaries on the benefits, costs, deployment levels, and lessons learned for ITS deployment and operations
  https://www.itskrs.its.dot.gov
- **ITS FACT SHEETS**
  Read more detailed descriptions of the U.S. DOT's ITS research programs
  www.its.dot.gov/its_program/its_factsheets.htm

To learn more about these program areas, visit:

https://www.its.dot.gov/research_areas/accelerating/index.htm

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