ITS JPO PROGRAM – A STRATEGY FOR MOBILITY

First National Mobility Summit of USDOT
University Transportation Centers

Kenneth M Leonard, Director
ITS Joint Program Office
U.S. Department of Transportation
A STRATEGY FOR MOBILITY

http://its.dot.gov/strategicplan/index.html
Imagine a Transportation System in which

VEHICLES CAN SENSE & COMMUNICATE
Things That You Can’t.

MOBILITY APPLICATIONS - CONNECTED VEHICLE PILOTS

ICF/Wyoming
- Reduce the number and severity of adverse weather-related incidents in the I-80 Corridor in order to improve safety and reduce incident-related delays.
- Focused on the needs of commercial vehicle operators in the State of Wyoming.

New York City
- Improve safety and mobility of travelers in New York City through connected vehicle technologies.
- Vehicle to vehicle (V2V) technology installed in up to 10,000 vehicles in Midtown Manhattan, and vehicle to infrastructure (V2I) technology installed along high-accident rate arterials in Manhattan and Central Brooklyn.

Tampa (THEA)
- Alleviate congestion and improve safety during morning commuting hours.
- Deploy a variety of connected vehicle technologies on and in the vicinity of reversible express lanes and three major arterials in downtown Tampa to solve the transportation challenges.
AUTOMATION VEHICLE INITIATIVES FOR MOBILITY

- Automated Vehicle Policy 2.0
- Automated Vehicle Data Roundtable
  - Work Zone Data Exchange
  - Cyber Security Data Exchange
  - Edge Case Scenarios Data Exchange
- Federal Automated Vehicle Summit
- Automated Vehicle Policy 3.0 (coming 2018)
SMART COMMUNITIES WANT MOBILITY

Source: The City of Columbus  
https://www.columbus.gov/smartcolumbus/
DATA IS THE NEW OIL FOR MOBILITY
ITS DATA PROGRAM ESSENTIAL TO MOBILITY GROWTH

• Intelligent Transportation Systems Joint Program Office
  • Data Program

• The ITS JPO Data Program is a multimodal effort to enhance how data is managed and used throughout the transportation ecosystem to support the next generation of ITS technologies.

• Supporting Deployers with Data Products and Services
  • ITS Operational Data Environment
  • Privacy Protection Tools
  • Agile Development Training

• Enhancing Third-Party Access to Data
  • Facilitate Data Exchanges
  • ITS Public Data Hub
  • ITS Secure Data Commons

• Data Management Priorities
  • Digital Transformation
  • Enhanced Situational Awareness
  • Better Decision Making and AI/ML Tools
ADVANCED TECHNOLOGIES FOR MOBILITY
Technology convergence will revolutionize transportation, dramatically improving safety and mobility while reducing costs and environmental impacts.

Connected Vehicles
Vehicle Automation
Internet of Things
Machine Learning
Big Data
Sharing Economy

Connected-Automated Vehicles

Benefits
- Order of magnitude safety improvements
- Reduced congestion
- Reduced emissions and use of fossil fuels
- Improved access to jobs and services
- Reduced transportation costs for gov’t and users
- Improved accessibility and mobility

FOR MORE INFORMATION, CONTACT...

Kenneth M. Leonard
U.S. Department of Transportation
Intelligent Transportation Systems Joint Program Office
ken.leonard@dot.gov

Twitter: @ITSJPODirector
Facebook: www.facebook.com/DOTRITA
Website: http://www.its.dot.gov