

Introductions/Why Are You Here Today?



- What is your role related to connected vehicles?
- What are you most interested in learning more about?
- What questions do you have that you are hoping to get answered during this session?
- Do you know what your organization is currently doing related to connected vehicles?
- We want you to leave this workshop with an understanding of what you need to be ready to deploy a connected vehicles environment and what the funding path forward looks like to get there.



Accelerating ITS Deployment Day
Sunday, June 12, 2016
ITS America Annual Meeting, San Jose, CA

Ken Leonard, Director,
ITS Joint Program Office
U. S. Department of Transportation



WORKSHOP OVERVIEW

- 25 years of research into how ITS can advance our nation's transportation system
- Research is critical to ensuring seamless technology deployment:
 - At the cusp of monumental transportation changes
 - A decade of research into how wireless technology can enable vehicles to communicate
 - Fueled by the power of apps that alert drivers of potentially dangerous situations before they are aware of them
 - Connected vehicles share information over a wireless network
 - Ubiquitous access to safer, more efficient, and sustainable travel for everyone
- Now it is time to move from concept to reality.



Intelligent Transportation System Strategic Plan 2015-2019



<http://its.dot.gov/strategicplan/index.html>

OVERVIEW: STRATEGIC PLAN 2015-19 AND CHALLENGES



- ITS Strategic Plan 2015-2019 outlines the direction and goals of the ITS Program
- Program categories are the areas for research, development, and adoption of ITS technologies:
 - Connected Vehicles
 - Automated Vehicles
 - Enterprise Data
 - Emerging Technologies
 - Accelerating Deployment
 - Interoperability

Connected Vehicles



- A national, multimodal surface transportation system of connected vehicles, infrastructure, and passengers' portable devices
- Focus on adoption and deployment
- Early deployments of connected vehicle technology
- Making the leap from test bench to deployment
- Building on emerging vehicle-based technologies being deployed to support V2V technology
- Offering deployment guidance

Automated Vehicles



- Connected vehicles unleash the full potential of automated vehicles
- Transformative safety, mobility, energy, and environmental benefits
- President's intent to invest in automation
- Top priority is safety: Whether we're talking about automated features in cars today or fully automated vehicles of the future, the USDOT's top priority is to ensure these vehicles—and their occupants—are safe.
- Active vehicle automation research program
- Accelerating harmonization of connected and automated vehicle standards

Enterprise Data



- Imminent data explosion
- Data will be as critical as asphalt, concrete, and vehicles
- Rise of the “Internet of Things”
- Tremendous sources of data from interconnected systems
- Transportation is part of a connected, smart city
- New systemic efficiencies
- Smart City Challenge seeks demonstrations of innovative ways to connect our cars, streets, and cities using advanced technologies

Emerging Technologies



- At the USDOT, we are constantly exploring and encouraging promising emerging capabilities
- Our focus is on research that will enable future generations of transportation systems

Accelerating Deployment



- Technology deployments and pilots are the focus going forward
- Technical assistance, adoption, and deployment support
- New initiative provides grants for large-scale deployments of advanced ITS
- ATCMD legislative elements



Interoperability



- Interoperability is crucial to a connected vehicle environment

Conclusion



- Joining the growing environment of connectivity
- Moving toward a connected society
- This is only the beginning



Intelligent Transportation Systems Strategic Plan 2015 - 2019

