Connected Vehicle Basics

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ITS Joint Program Office
U.S. Department of Transportation
Connected Vehicle Basics

- Host – **Mac Lister**, ITS PCB Program Manager, ITS JPO, U.S. DOT
  Overview of the ITS PCB Program

- Presenter – **Valerie Briggs**, P.E., PMP, Team Lead, Knowledge Transfer and Policy, ITS JPO, U.S. DOT
  Introduction to the Connected Vehicle Environment
  How to Get Involved

- Presenter – **Brian Cronin**, P.E., Team Lead, ITS Research, ITS JPO, U.S. DOT
  Connected Vehicle Applications
  Research Toward Implementation

- Questions and Answers
Poll Question #1

Who is in the audience?

- State DOT
- Metropolitan Planning Organization
- Federal Government
- Consultant/Vendor
- Local DOT
- Transit Organization
- Academic – Researcher/Faculty/Student
- Equipment manufacturer
- Other
Role of the ITS PCB Program

• Part of U.S. DOT ITS Joint Program Office (ITS JPO)
• Authorized by Congress in 1996 to develop the workforce competencies to transform the transportation infrastructure through ITS
• Reauthorized by Moving Ahead for Progress in the 21st Century (MAP-21)
• In 2010 embarked on new strategic direction:
  – Develop new ITS content and fill gaps in existing content.
  – Build partnerships to direct learning to the right audiences.
  – Move to cost-effective, engaging delivery methods.
Developing New Learning Resources

- **ITS Resources for problem-based learning:**
  - ePrimer – online December 2013
  - ITS Case Studies
    - Adaptive Signal Control
    - National Architecture

- **Online learning:**
  - ITS Standards – 36 modules
  - ITS Transit Standards – coming soon
  - New eLearning Courses from CITE:
    - Telecommunications and Networking Fundamentals
    - Network Design and Deployment Considerations for ITS Managers
  - CITE Professional Certificate programs:
    - ITS Project Management
    - Traffic Engineering and Operations
    - ITS Systems
    - Road Weather Management

www.pcb.its.dot.gov
Developing New Learning Resources

• Expanded T3 program, with improved T3 archive

• Expanded workshops at ITS America state chapter meetings
  – Connected Vehicle 101
  – ICM, Procurement, Improving Safety
  – Student participation welcome

• University Workshop, Sept. 2013 and Fall 2014

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Upcoming Connected Vehicle Events

- **April 30, 2014** – All Day Workshop on the Connected Vehicle Pilot Deployment Program

- **May 14, 2014** – T3 Webinar on Transit Safety and Mobility Applications in a Connected Vehicle World

- **May 22, 2014** – T3 Webinar on National connected Vehicle Field Infrastructure Footprint Analysis
The Connected Vehicle Pilot Deployment Program

• **Workshop and Webinar** on the Connected Vehicle Pilot Deployment Program
• **When:** April 30, 2014
• **Time:** 8:30 AM – 5:00 PM (EST)
• **Where:** HOLIDAY INN CAPITOL
  550 C Street S.W.
  Washington, DC 20024

**Purpose of Public Meeting and Webinar:**
The purpose of the meeting is to inform private sector stakeholders on upcoming opportunities and to seek input from public sector implementers as they prepare to integrate emerging connected vehicle and mobile device technologies into operational practice. The meeting will provide information on the organizing principles and preliminary schedule of the Connected Vehicle Pilot Deployment Program.

To register: [www.itsa.org/cvpilotsregistration](http://www.itsa.org/cvpilotsregistration)
[http://www.its.dot.gov/meetings/cv_pilot_deployment.htm](http://www.its.dot.gov/meetings/cv_pilot_deployment.htm)
Register at:
www.itsa.org/cvpilotsregistration
Title: **Transit Safety and Mobility Applications in a Connected Vehicle World**

Date: Wednesday, May 14, 2014

Time: 1:00 pm – 2:30 pm (EST)

Hosts: Steven Mortensen, Senior ITS Engineer, Office of Research, Demonstration, and Innovation, FTA, U.S. DOT
Ron Boenau, P.E., Senior Transportation System Manager – Special Operations, FTA, U.S. DOT

Presenters:
David Valentine, Program Manager, Battelle Memorial Institute
Tom Timcho, Senior Research Scientist, Battelle Memorial Institute

Description: As a part of the U.S. DOT's Connected Vehicle Research Program, the Federal Transit Administration (FTA) and ITS JPO contracted with Battelle Memorial Institute to develop a suite of transit connected vehicle (CV) safety and mobility applications.

Upcoming Connected Vehicle T3 Webinar

- Title: National Connected Vehicle Field Infrastructure Footprint Analysis
- Date: Thursday, May 22, 2014
- Time: 1:00 PM to 2:30 PM (EST)
- Host: Ben McKeever, Team Leader, FHWA Turner-Fairbank Highway Research Center
- Presenters:
  - Jim Wright, AASHTO
  - Kyle Garrett, AASHTO

- Description: The AASHTO Footprint Analysis project team conducted analyses leading to a preliminary, general concept of a national connected vehicle field infrastructure footprint. The footprint helped to conceptualize a policy foundations for the connected vehicle environment.

- To Register for the Webinar visit: [http://www.pcb.its.dot.gov/t3_webinars.aspx](http://www.pcb.its.dot.gov/t3_webinars.aspx)
Poll Question #2

What is your interest/involvement in the connected vehicle program?

- Pilot project state
- Test bed state
- Researcher
- Equipment manufacturer
- State DOT wondering what road side equipment will be needed to prepare for a connected vehicle environment
- Want to know how to get involved in the program
- Know very little about the connected vehicle program
- Other (please type answer in the chat box)
Contact Information
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