

ITS Workshop on Connected Vehicles

Moving from Research towards Implementation

September 25-27, 2012
Hyatt Regency, Chicago, Illinois

Final Agenda

Workshop Objectives:

- Understand the latest research results on the ITS Connected Vehicle Safety Program and progress towards getting to the 2013 decision
- Provide updates on key activities for establishing a robust vehicle-to-infrastructure connected environment
- Engage early adopters and affiliated test bed operators on practical issues for deploying, operating, and using a connected environment
- Discussion of decision factors for investing in a connected vehicle environment

Day One: Getting to the 2013 Decision Point for Vehicle-to-Vehicle Safety

8:30 AM Introduction and Expected Outcomes from the Workshop

Mike Schagrin, RITA

8:45 AM Overview of the ITS Connected Vehicle Safety Program

Mike Schagrin, RITA

9:00 AM V2V - Maturing the Safety Research

Hear the latest results and thinking on initial basis for the research, interoperability, initial deployment security models, and driver vehicle interface guidelines.

Overview/Moderator - Ray Resendes, NHTSA

Initial crash problems, performance measures, and testing procedures - John Harding, NHTSA

Interoperability - Mike Lukuc, NHTSA

Short Break

Initial Security models – Mike Shulman, CAMP

DVI Guidelines – Chris Monk, NHTSA

Additional Q& A

11:15 AM **Safety Pilot – Model Deployment and Developing an Operational Understanding of a Real World Environment**

Hear about the extremely successful driver clinics and the latest developments on model deployment and obtaining the benefits data.

Overview/Moderator – Mike Schagrín, RITA

Benefits framework - Emily Nodine, Volpe

11:45 AM **Lunch Break (on your own)**

1:00 PM **Safety Pilot (cont)**

Driver clinics - Mike Lukuc/Alrik Svenson, NHTSA

DSRC Performance Testing – CAMP

Model deployment – John Harding, NHTSA

Experimental Design – Gay, Volpe

Break

Data Collection – Emily Nodine, Volpe

Transit Activity - Steve Mortensen, FTA

Additional Q & A

3:30 PM **Policy Support for the 2013 Decision**

Discussion of current implementation, technical, and legal policy issues being explored by the research program.

Valerie Briggs, RITA

4:00 PM **Preparing for the 2013 Decision**

Find out how the research informs the decision making process.

Ray Resendes, NHTSA

4:30 PM **Q&A/Wrap Up**

Mike Schagrín, RITA

Day Two: Establishing a Robust Nationwide Vehicle-to-Infrastructure Environment

8:30 AM **Opening**

Overview for the day – Mike Schagrin, RITA

8:40 AM **Executing the Vehicle-to-Infrastructure Research Program**

Get the latest updates on technology enablers, priority applications for development, studies on the value of the infrastructure, and a system analysis of the connected vehicle environment.

Overview of V2I – Carl Andersen, FHWA

Technology – Ben McKeever, FHWA

Applications

- **Safety, mobility, and environmental – Carl Andersen, FHWA**
- **Weather – Ram Kandarpa, BAH**

Break

Smart Roadside Infrastructure – Kate Hartman, RITA

System Analysis – Volker Fessmann, FHWA

Additional Q&A

10:45 AM **Understanding Results from the Test Bed Summit – Lessons Learned and Next Steps**

Hear what's on the minds of early adopters and the key items users and operators need to know about existing and evolving test beds. Understand what it means to be an affiliated test bed and what's on the horizon for a nationwide coordinated plan.

Overview/moderator – Walt Fehr, RITA

Device Certification – Walt Fehr, RITA

Saxton Transportation Operations Laboratory – McKeever, FHWA

Affiliated Test Beds – Walt Fehr, RITA; Greg Krueger, SAIC

12:00 PM **Lunch**

1:15 PM **Test Bed Summit – Lessons Learned and Next Steps (cont.)**

2:30 PM **Connected Vehicle Infrastructure Deployment Analysis**

Learn about what's planned for an upcoming AASHTO study on assessing the infrastructure needs and rollout strategy for the infrastructure component of the connected vehicle environment.

Jim Wright, AASHTO

3:00 PM **Break**

3:15 PM **Discussion of Opportunities and Challenges**

Hear what others have to say about what's ahead for the connected vehicle environment. Panel members will include a broad based perspective from a variety of industry representatives involved in the connected vehicle domain.

Moderator – Schagrin, RITA

Panel participants:

- **Zac Doerzaph – VTTI**
- **Roger Berg – Denso**
- **Scott Andrews – Cogenia**
- **Bob Rausch – Transcore**
- **Scott Geisler - GM**
- **Dan Murray – ATRI**
- **Doug Jamison – LYNX**

4:30 PM **A Study of Deployment Factors Overview and Intro for Day 3**

How deployment factors of today's ITS can influence deployment of a Connected Vehicle environment.

James Pol, FHWA

4:45 PM **Adjourn**

Mike Schagrin, RITA

Day Three: Applying Past Experience to Achieve Future Success

- 8:00 AM** Registration and Registrant Polling
- 1) How do you rate the probability of a Connected Vehicle Environment established in the next 15 years?**
 - 2) Do you think the factors you consider to invest in the Connected Vehicle Environment are being addressed?**
- 8:30 AM** Welcome and Registrants' "Five Words About the Connected Vehicle Environment I'd Like to Share"
- 9:00 AM** Background and Context: *A Study of Patterns of ITS Deployment and How They May Inform Connected Vehicles*
- 9:45 AM** Polling Results and Break
- 10:00 AM** Case Studies: What history tells us -Comparing ITS deployment evidence to anecdotal history
- *What are the implications here for Connected Vehicle Environment deployment?***
- 10:45 AM** What are the similarities and differences in the deployment decisions for ITS today vs. Connected Vehicle Environment tomorrow?
- 11:45 AM** Lunch Break (on your own)
- 1:00 PM** Breakout #1 Discussion
- *What is the perceived value your organization expects to get from a Connected Vehicle environment and what is your organization willing to invest to create this value?***
 - *What barriers do you or your organization perceive with respect to making a Connected Vehicle Environment happen?***
- Breakout #2 Discussion
- *How can you or your organization overcome barriers for creating the Connected Vehicle Environment and what will it take to create this environment?***
 - *What past experience can you or your organization apply to achieve future success in creating the Connected Vehicle Environment?***
- 2:30 PM** Re-polling and Break
- 2:45 PM** Report out, Conclusions, and Adjourn