2014 AERIS Workshop: Moving Toward Deployment

Washington, D.C.
October 22, 2014
Opening Remarks and Introduction
Marcia Pincus, ITS-JPO
Workshop Purpose

1. **INFORM** stakeholders on the potential fuel use and emissions reduction benefits that may be achieved from deploying connected vehicle applications

2. **SHARE** information about real-world environmental projects currently deployed and research activities underway targeted at reducing transportation’s negative impact on the environment

3. **ENGAGE** the adopter community in discussion of environmental connected vehicle applications that may be good candidates for near-term deployment
AERIS Team and Support Team

- Marcia Pincus, ITS JPO
- Robert Ferlis, FHWA
- Peter Huang, FHWA
- Osman Altan, FHWA
- William Wiggins, FTA

AERIS Support Team

- Volpe
- ITS America, Technical Support
- Noblis, Technical Support Team
- Booz Allen Hamilton, Modeling Team
- Leidos, GlidePath Project Team
Meeting Guidelines and Housekeeping

- **Cell Phones**
  - Please set your cell phones to vibrate or turn them off

- **Webinar Participants**
  - Your input and questions are important to the AERIS Team
  - Please type your questions/feedback using the webinar tool
    - A dedicated on-site person has been assigned to bring your questions/comments to the group
    - Questions will be addressed periodically throughout the workshop
  - Comments entered in the chat box will be collected for future use by the AERIS Team

- **In-Person Attendees**
  - When asking questions or providing comments, please speak into a microphone so that the webinar participants can hear you
Who Is Here?

121 Total Participants

- 54 attending in-person
- 67 participating on webinar

Private Sector/Consultant, 27%

Vehicle OEM, 8%

Academia, 16%

State or Local Agency, 22%

Federal Agency, 11%

National Labs, 5%

Association/Non-Profit, 7%

Other, 4%
Who Is Here?

[Map showing states covered by the program]
# Workshop Agenda

<table>
<thead>
<tr>
<th>Session</th>
<th>Title/Speaker</th>
<th>Time</th>
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| 1       | Opening Remarks and Introduction to the Workshop  
Marcia Pincus, ITS JPO | 9:00 am – 9:10 am |
| 2       | CV Pilots and Opportunities for Environmental Applications  
- Overview of the USDOT’s Connected Vehicle Pilots  
  Carl Andersen, FHWA  
- Regional Unified Model Architecture  
  Walt Fehr, ITS JPO  
- Opportunities for Environmental Applications for Near-Term Deployments  
  Marcia Pincus, ITS JPO  
- Questions and Answers | 9:10 am – 10:15 am |
| 3       | Environmental Benefits from AERIS Modeling  
Sean Fitzgerel, Booz Allen Hamilton  
- Eco-Signal Operations  
- Eco-Lanes  
- Low Emissions Zones | 10:15 am – 11:00 am |
| 4       | Break | 11:00 am – 11:15 am |
## Workshop Agenda cont’d

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<td>5</td>
<td><strong>Real-World Environmental Applications</strong></td>
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<td>- Tour of the World: Environmental Applications</td>
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<td>J.D. Schneeberger, Noblis</td>
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<td>- FHWA’s GlidePath Project</td>
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<td>Osman Altan, FHWA</td>
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<td>- Sharing Traffic Signal Timing with Vehicles: A Non-DSRC Survey</td>
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<td>Anthony Shaw, ITS America</td>
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<td><strong>11:15 am – 12:00 am</strong></td>
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<td>6</td>
<td><strong>Lunch</strong></td>
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<td><strong>12:00 pm – 1:00 pm</strong></td>
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<td><strong>Real-World Environmental Activities: Panel Session</strong></td>
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<td>- Matt Lesh, Federal Transit Administration (FTA)</td>
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<td>- Stephen Smith, Carnegie Mellon</td>
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<td>- Matt Barth, UC Riverside</td>
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<td>- Hesham Rakha, Virginia Tech</td>
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<td>- Adam Cohen, UC Berkeley</td>
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<td>- Jacob Ward, Department of Energy (DOE)</td>
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<td></td>
<td><strong>1:00 pm – 2:45 pm</strong></td>
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<td>8</td>
<td>Open Discussion</td>
<td>2:45 pm – 3:00 pm</td>
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| 9       | Break-out Sessions  
Brainstorming Candidate Connected Vehicle Environmental Applications | 3:00 pm – 4:15 pm |
| 10      | Break          | 4:15 pm – 4:30 pm |
| 11      | Key Takeaways from Break-out Sessions | 4:30 pm – 4:50 pm |
| 12      | Wrap-up and Closing Remarks  
Marcia Pincus, ITS JPO | 4:50 pm – 5:00 pm |
Notecards: Environmental Challenges

- What are the biggest environmental problems/challenges directly impacting you (or your jurisdiction) that connected vehicle technologies can solve?
  - List up to 3 problems/challenges
  - Your name is not required
  - Submit your notecards at the registration desk before lunch
  - Webinar participants may enter their responses into the chat box (Begin entry with “CHALLENGE:”)
  - Inputs will be consolidated and used to facilitate discussion during the afternoon break-out sessions helping to identify near-term applications that can address the challenges