Connected Vehicle Pilot Deployment Program

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    - Goals of CV Pilot Deployment Program
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      - Choose one out of five depending on the interest of the target audience.
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    - CV Pilots Deployment Schedule
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PROGRAM GOALS

Spur Early CV Tech Deployment

Measure Deployment Benefits

Resolve Deployment Issues

CV Tech: Wirelessly connected vehicles, mobile devices, and infrastructure

LIMIT 35 Safety, Mobility, and Environment

Technical, Institutional, Financial

U.S. Department of Transportation
ITS Joint Program Office
PILOT DEPLOYMENT PROCESS

- Pilot Deployment Concept Development Process
  - Identify Local Needs
  - Set Performance Goals
  - Select CV Applications That Work Together Meet Those Goals

- USDOT Sample Pilot Concepts from Hypothetical Locations
  - Hypothetical, but realistic examples of localities applying the pilot deployment concept development process
SAMPLE DEPLOYMENT CONCEPT – Downtown Sunnyside
~ Improving Congestion in an Urban Arterial Network ~

**Improve Transit Reliability**
- Connection Protection
- Transit Signal Priority

**Improve Pedestrian Safety**
- Mobile Accessible Pedestrian Signal System
- Pedestrian in Signalized Crosswalk Warning
- Intersection Movement Assist

**Improve Air Quality**
- Eco-Approach and Departure at Signalized Intersections
- Eco-Traffic Signal Timing

Synergies among applications increase benefits and reduce costs
SAMPLE DEPLOYMENT CONCEPT – Halleck Expressway
~ Improving Travel Time Reliability on an Urban Expressway~

Reduce Incident Delay

- Incident Scene Pre-Arrival Staging Guidance for Emergency Responders
- Incident Scene Work Zone Alerts for Drivers and Workers

Improve Bottleneck Throughput

- Speed Harmonization and Queue Warning
- Emergency Electronic Brake Lights and Forward Collision Warning

Manage Diversions Better

- EnableATIS
- Intelligent Signal Control

Synergies among applications increase benefits and reduce costs
SAMPLE DEPLOYMENT CONCEPTS – Greypool County
~ Improving Safety and Mobility in a Rural Area ~

Increase Accessibility
- Dynamic Transit Operations

Improve Safety
- Red Light Violation Warning
- Stop Sign Gap Assist
- Left Turn Assist

Informing Drivers During Bad Weather
- Weather Response
- Traffic Information

Synergies among applications increase benefits and reduce costs
SAMPLE DEPLOYMENT CONCEPT – District 13 Operations
~ Improving the Efficiency of Road Maintenance ~

Improve Snow Removal
- Enhanced Maintenance Decision Support System

Improve Management of Work Zones
- Work Zone Traveler Information

Improve Situational Awareness
- Probe-based Pavement Maintenance

Synergies among applications increase benefits and reduce costs
SAMPLE DEPLOYMENT CONCEPT – I-876 Corridor
~ Improving Freight Movement in an Inter-State Corridor ~

**Improve Freight Productivity**
- Freight Advanced Traveler Information System
- Drayage Optimization
- Freight Signal Priority

**Improve Truck Safety**
- Curve Speed Warning
- Do Not Pass Warning/Lane Change Warning

Synergies among applications increase benefits and reduce costs.
CV PILOTS DEPLOYMENT SCHEDULE AND RESOURCES

- Proposed CV Pilots Deployment Schedule

<table>
<thead>
<tr>
<th>Schedule Item</th>
<th>Date</th>
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<tbody>
<tr>
<td>Request for Information (RFI) Issued</td>
<td>March 12, 2014</td>
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<tr>
<td>CV Pilot Program Stakeholder Workshop</td>
<td>April 30, 2014</td>
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<tr>
<td>Regional Pre-Deployment Workshop/Webinar Series</td>
<td>Summer-Fall 2014</td>
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<td>Solicitation for Wave 1 Pilot Deployment Concepts</td>
<td>Early 2015</td>
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<td>September 2015</td>
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<tr>
<td>Solicitation for Wave 2 Pilot Deployment Concepts</td>
<td>Early 2017</td>
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<tr>
<td>Wave 2 Pilot Deployments Award(s)</td>
<td>September 2017</td>
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<tr>
<td>Pilot Deployments Complete</td>
<td>September 2020</td>
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- Resources
  - ITS JPO Website: [http://www.its.dot.gov/](http://www.its.dot.gov/)
  - CV Pilots Program Website: [http://www.its.dot.gov/pilots](http://www.its.dot.gov/pilots)