



Connected Vehicle Pilot Deployment Program

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CONNECTED VEHICLE PILOT DEPLOYMENT PROGRAM



PROGRAM GOALS

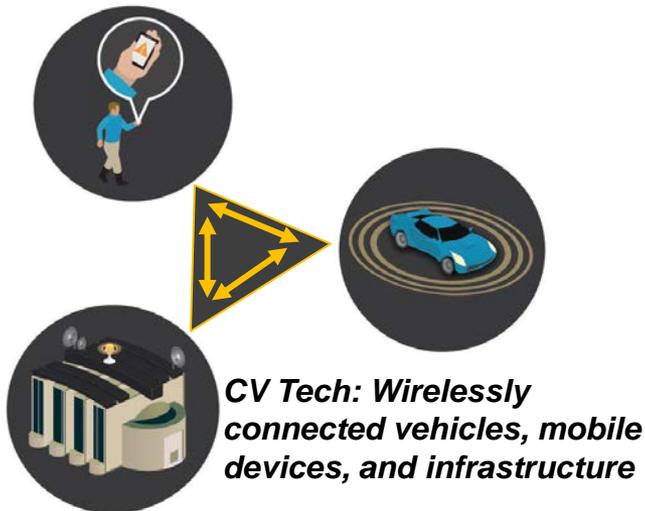
**Spur Early
CV Tech
Deployment**



**Measure
Deployment
Benefits**



**Resolve
Deployment
Issues**



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

- Enable ATIS
- 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

Schedule Item	Date
Request for Information (RFI) Issued	March 12, 2014
CV Pilot Program Stakeholder Workshop	April 30, 2014
Regional Pre-Deployment Workshop/Webinar Series	Summer-Fall 2014
Solicitation for Wave 1 Pilot Deployment Concepts	Early 2015
Wave 1 Pilot Deployments Award(s)	September 2015
Solicitation for Wave 2 Pilot Deployment Concepts	Early 2017
Wave 2 Pilot Deployments Award(s)	September 2017
Pilot Deployments Complete	September 2020

■ Resources

- ITS JPO Website: <http://www.its.dot.gov/>
- CV Pilots Program Website: <http://www.its.dot.gov/pilots>

