The Path To Deployment

Defined Safety (V2I), Mobility (V2V & V2I), AERIS and Weather Apps

2011
- NHTSA Decision
- Light Vehicles

2012
- Defined V2V Apps

2013
- Application Development

2014
- Pilots/Early Deployments
- NHTSA Decision
- Heavy Vehicles
- FHWA Deployment Guidelines

2015

2016

U.S. Department of Transportation
Research and Innovative Technology Administration
ITS Joint Program Office
Steps Towards Guidance

- Research for NHTSA’s 2013 and 2014 Decisions
- Connected Vehicle Safety Pilot
- AASHTO Footprint Analysis
- Applications Research

- Establish workgroup
Infrastructure Deployment Planning

- National Cooperative Highway Research Program (2013 completion)
  - Benefit Cost Analysis for state and local DOTs
- AASHTO National Connected Vehicle Field Infrastructure Footprint Analysis (2014 completion)
- Standardized interfaces
- Certification processes for equipment and systems
- Nationwide Security Credential Management System (SCMS)
- USDOT is working with state and local DOTs and private industry to plan for deployment

2015 FHWA Deployment Guidance
V2I Program Elements

Enabling Technology
OUTCOMES: V2I Reference Implementation

Application Selection, Development & Evaluation
OUTCOMES: Benefits Assessment

Infrastructure Planning & Policy
OUTCOMES: Policy Recommendations

Implementation Guidelines
FHWA 2015 V2I Workgroup
Outcome / Product

- Infrastructure Planning: policy statement and guidance
- Development of Practitioner Toolbox for Deployment
- Regulatory implementation language
- Non-regulatory implementation guidance
- Marketing plan - extension of current Connected Vehicle plan
Activities

- Developing internal outreach by end of October
  - Initial work group includes FHWA, RITA
  - Expanding to other DOT administrations: FTA, FMCSA, NHTSA & OST

- Planning workshop for external stakeholders, etc. later in the year

- Identifying gaps that may need guidance, for example
  - Federal-aid eligibility
  - Transportation planning
  - Infrastructure design considerations
  - ????

Stay tuned!
Summary

- Guidance – not regulation
  - Expected to be updated as more is learned
- “Toolkit” to help public agencies prepare for V2I
- Stakeholder involvement: workshops, etc.

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