



U.S. Department of Transportation  
Federal Highway Administration

# Connected Vehicles Workforce

## FHWA Vehicle-to-Infrastructure Deployment Guidance & Products

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## Topics of Discussion

1. FHWA's V2I Vision & Policy Statement
2. What is the intent of the guidance document?
3. How does the guidance/products relate to State DOTs & local agencies (*Examples 1 & 2*)
4. What is in the FHWA V2I Deployment Guidance & What are the V2I Products?
5. Contact Us



## **FHWA's V2I Vision & Policy Statement**

### **V2I Vision Statement**

The Federal Highway Administration (FHWA) will provide national leadership and facilitate a smooth and effective deployment path for transportation owners/operators who are interested in implementing vehicle-to-infrastructure technology for a connected vehicle environment.

### **V2I Policy Statement**

Vehicle-to-infrastructure (V2I) technology will take advantage of and build upon emerging vehicle-based technologies being deployed to support vehicle-to-vehicle (V2V) technology. When leveraged with V2V, a V2I deployment will result in significant safety, mobility, and environmental benefits that will be of significant interest to state, regional, and local transportation agencies. Deployments will be encouraged by FHWA but public agencies will not be required to implement V2I technology. Nevertheless, state, regional, and local agencies will have guidance and products available to ensure efficiency and interoperability.



## What is the intent of the guidance document?

- ✓ The intent of the V2I Deployment Guidance is to assist Federal Highway Administration staff and transportation system owners/operators with deploying V2I technology, not only in terms of the federal-aid highway program requirements, but also with best practices to ensure interoperability, efficiency, and effective planning/operations throughout the full life-cycle.
- ✓ Deployment of V2I technologies is not mandated and is not coupled with the National Highway Traffic Safety Administration's (NHTSA) advance notice of proposed rulemaking for Vehicle-to-Vehicle (V2V) communications.
- ✓ The guidance does not negate or replace existing laws, rules, or processes; rather, the document is intended to provide a clear statement of FHWA's policy regarding processes such as funding, standards, and access to resources.



## How does the guidance/products relate to State & local agencies? *Vehicle-to-Infrastructure (V2I) Communications (Example 1)*

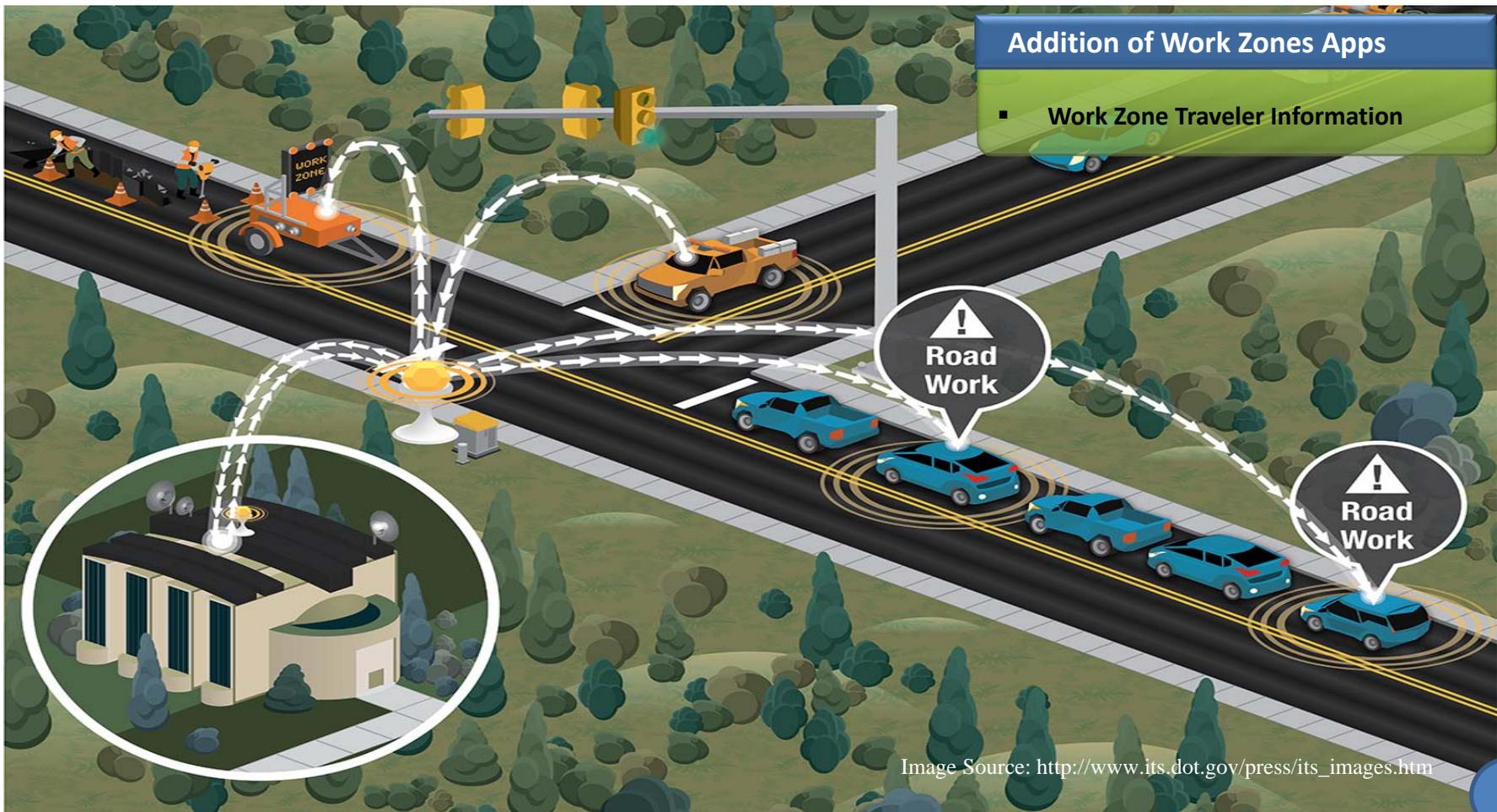
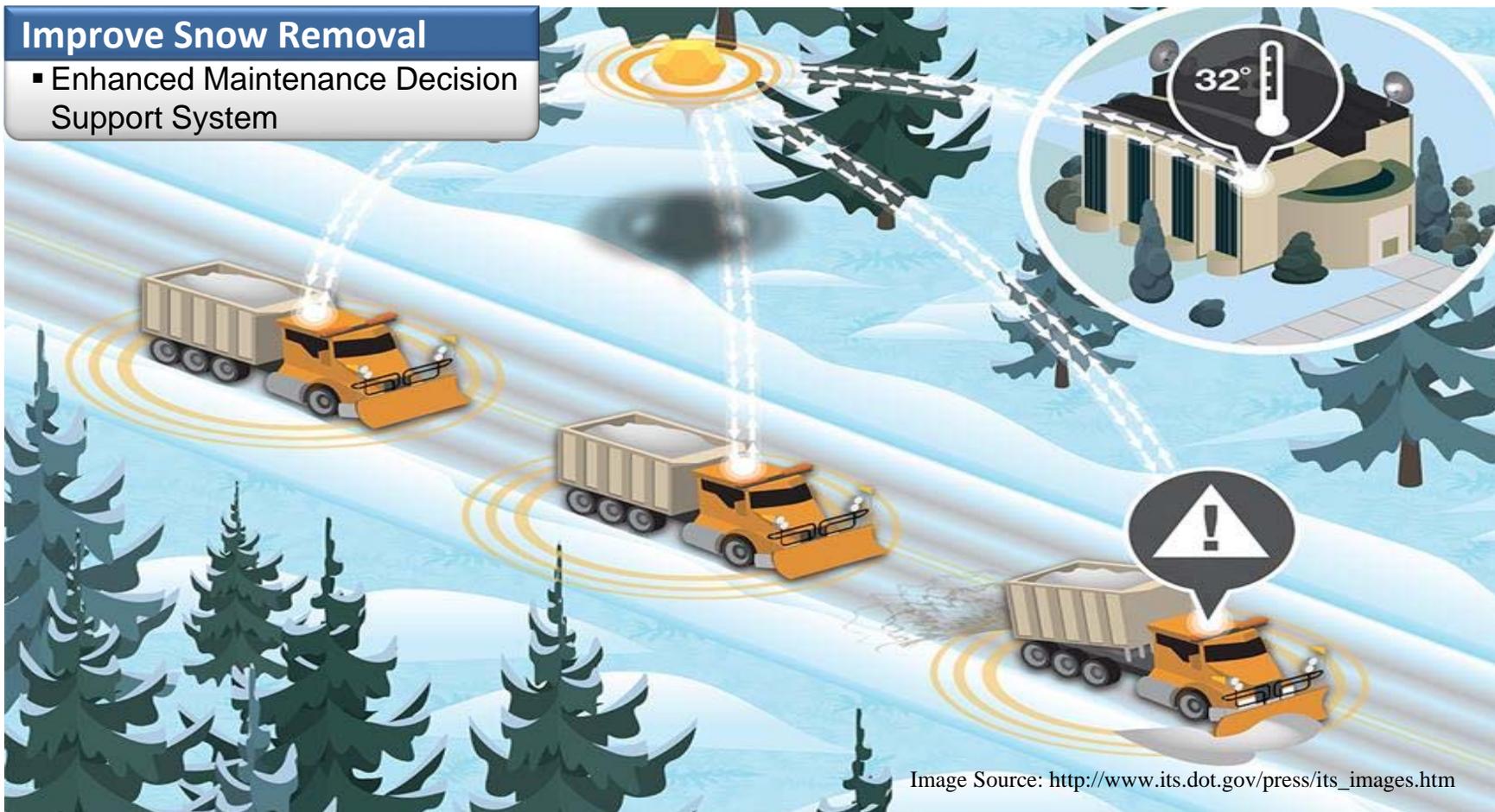


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## How does the guidance/products relate to State & local agencies? *Vehicle-to-Infrastructure (V2I) Communications (Example 2)*





## FHWA V2I Deployment Guidance/Products

- ✓ The Vehicle-to-Infrastructure (V2I) Deployment Guidance and Products document is targeted for release by January 1, 2016 at <http://www.its.dot.gov/v2i/>.
- ✓ Products and Tools (Available by the end of 2015)
  - Systems Engineering Guide
  - Connected Vehicles and the Planning Process
  - Guide to Licensing
  - V2I Message Lexicon
  - Pre-Deployment Guidance for V2I Safety Applications
  - Estimating Benefits and Economic Impacts
  - Near Term Transition and Phasing
  - Connected Vehicle Training Resources



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# FHWA V2I Deployment Guidance

Here are a few selected topics/subtopics from the V2I Deployment Guidance

- ✓ FHWA vehicle-to-infrastructure vision and policy statement
- ✓ Chapter 1. Introduction

Intent Of This Document	Significance of V2I	Available Connected Vehicle Standards
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- ✓ Chapter 2. Federal-aid eligibility for V2I deployments

General Eligibility for V2I activities	Brief Summary of Federal-aid Programs for V2I Activities
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- ✓ Chapter 3. Guidance

Hardware and Software Device Certification	Use of Right-of-Way	Use of Public Sector Fleets (including Incident Responder Vehicles)
Using Public-Private Partnerships (P3s)	Communication Technology	Security and Privacy in a Cooperative ITS Environment



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## Questions/ Comments

### Contact us

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