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# Connected Vehicle & IMO 2.0 Update

RWMP Stakeholder Meeting  
July 16-18, 2013



# USDOT CV Status....

At a very high Level:

1. In early 2010 the USDO issued a broad Agency Announcement to collect ideas on "transformative" Connected Vehicle Applications. Over 90 ideas were submitted. The ideas were consolidated into 7 different bundles that had common themes (Inflo, Enable ATIS, RESCUME, IDTO, M-MITSS, etc...)
2. 2011, 2012, early 2013 were spent developing ConOps, System Requirements, and designing those bundle applications.
3. In 2013, 2014, and 2015 considerable effort will spent ascertaining the benefits and costs associated with developing and deploying prototypes of these applications. Test-beds based on real and modeled scenarios will be used to evaluate the prototyped applications. Evaluation studies, Benefit/Cost Analysis, and arguments to support NHTSA decisions and to help USDOT develop CV-related guidance will follow the testbed deployments.



# CV High level update...

4. In addition to the efforts mentioned above, the USDOT has been pursuing :

- The Update of the J2735 Standard
- Developing the next ITS Strategic Plan
- Developing a Connected Vehicle Reference Implementation Plan
- Cooperating on the development of AASHTOS CV Footprint
- Working on inter-operability of CV equipment
- Developing Policies and Guidelines concerning Institutional Issues



# IMO 2.0 Update...

## How do we fit in the Connected Vehicle Grand Scheme?

- One of the few “real life CV testbeds”
  - Safety Pilot
  - Road Weather Connected Vehicle Applications
  - Others under development
- Building on the lessons learned from IMO 1.0
- Partnered with the states of Michigan, Minnesota, and Nevada
- Continued relationship with NCAR - Further enhancing the VDT and prototyping Wx-related applications



# IMO 2.0 Update (cont.)

Three overarching goals:

- Develop, test, and evaluate Wx-related applications that use mobile data
- Demonstrate the value of mobile data
- Support the NHTSA decision



# IMO 2.0 Update (cont.)

## NCAR

- Enhance the Functionality of the VDT/develop VDT 4.0
- Develop functional prototypes for two weather-related applications:
  - EMDSS
  - MAW (Motorist Advisories and Warnings)



# IMO 2.0 (cont.)

## States

- Install the necessary AVL/GPS, sensors, and communication equipment to collect and transmit/make available mobile data to NCAR, WxDE, and other data environments
- Test and evaluate the applications being developed by NCAR and/or any other wx-related applications of their own



# Primary Contacts...

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