Welcome

PlugFest Palo Alto

Palo Alto, CA
June 24, 2014
Welcome

- **Presenter** –
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- **Topics** –
  - Overview
  - Communications
  - Architecture
  - Concept of Operation
  - Design
Path to Deployment

- Defined V2V Apps
- Defined Safety (V2I), Mobility (V2V & V2I), AERIS and Weather Apps
- Application Development
- Pilots/Early Deployments

2011: FHWA Deployment Guidelines
2012: NHTSA Decision to Move Forward with V2V Communication for Light Vehicles
2013: NHTSA Decision for Heavy Vehicles
2014: Safety Pilot in 2013
2015
2016
Project Overview

- **Communication security**
  - Common process for all information flows
  - Preserving “Privacy by Design”

- **Data flow and evolution**
  - Common processes, two types of data
  - Full round trip

- **Multiple communication media**
  - DSRC on all 7 channels
  - Other IP transport media

- **Tools**
  - Consistent implementations
A Variety of Communication Media, Data Needs

**Resources:** wired and wireless, the Internet

- 3,000 miles, 3,000 meters, 300 meters, 3 meters.

**Requirements:** Two types of data distribution:
- To all, To one.
FOR THE BENEFIT OF ALL VEHICLES AND TRAVELERS, ACCESSIBLE TO ALL CONTENT PROVIDERS

- A base level of data for the benefit of all.
- Likely media: Satellite, Wide Area Network, 5.9GHz DSRC.
- Broadcast mode or Internet Protocol transactions or streams accessible by all.
- Data resources accessible to all contributors.
Upcoming Stakeholder Events

▪ Plug-Fests: [http://www.its.dot.gov/testbed/plugfests.htm#calendar](http://www.its.dot.gov/testbed/plugfests.htm#calendar)
  □ Palo Alto, CA: June 24-26, 2014
  □ Detroit Area: August 5-7, 2014
  □ Application Hackathon: Late 2014/January 2015, Novi, MI

▪ Regional CV Pilot Workshops (TBD)

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Affiliation of Test Beds

The OST-R has entered into 36 Memorandums of Agreement (MOA) with public, private, and academic organizations involved in the Affiliation of Test Beds. They include:

Arada Systems
Southwest Research Institute
Detroit DPW
Security Innovation
Cohda Wireless
Siemens Industry Inc.
Dering & Estrada
University of Michigan/UMTRI
University of Arizona
TIEMAC CORPORATION
Tampa Hillsborough Expressway Authority
DENSO Corporation
Marben Products
NextEnergy
CETECOM
Pioneer Advanced Solutions
La Trobe University (Melbourne)
OminiAir
ITRI

Autotalks LTD
Connected Vehicle Trade Assc.
Battelle Memorial Institute
Rohde & Schwarz USA, Inc.
MET Laboratories
7Layers Inc.
Green Driver Inc.
On Time Systems
Virginia Tech Transportation Institute
Illinois Tollway
Contra Costa Transportation Authority
Savari Inc.
The Road Commission for Oakland County
Traffic Technology Solutions

Latest
Case Western Reserve University
University of Wisconsin Madison
Unex Technology Corporation
Sirius XM Radio Inc.

June 2014
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