



Connected Vehicle
PlugFest

Welcome

PlugFest Palo Alto

Palo Alto, CA
June 24, 2014

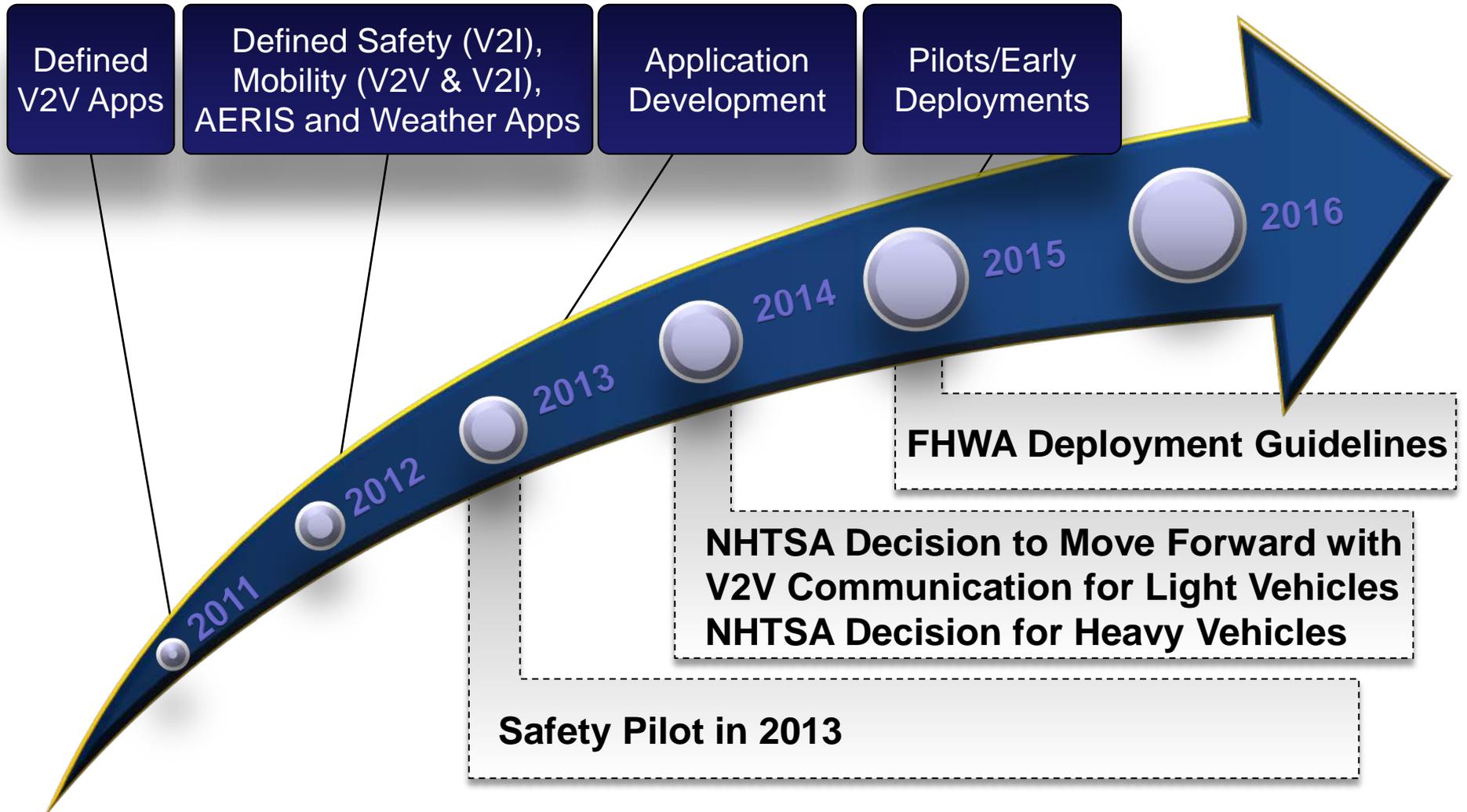


Welcome

- Presenter –
 - Walton Fehr
 - USDOT ITS Joint Program Office
 - walton.fehr@dot.gov
 - www.its.dot.gov

- Topics –
 - Overview
 - Communications
 - Architecture
 - Concept of Operation
 - Design

Path to Deployment



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.

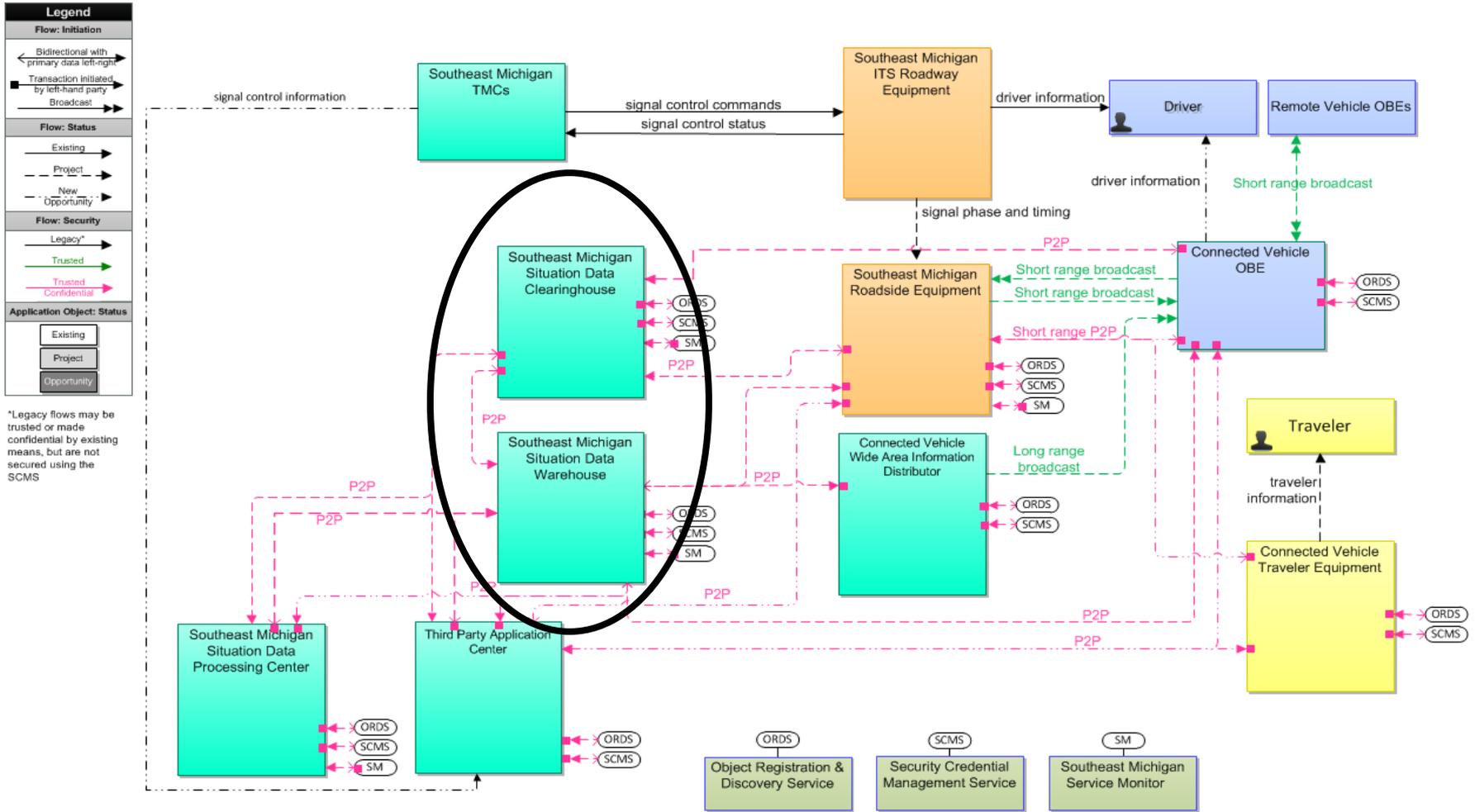
FOR THE BENEFIT OF ALL VEHICLES AND TRAVELERS, ACCESSIBLE TO ALL CONTENT PROVIDERS

- 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.



SOUTHEAST MICHIGAN 2014 PROJECT

– ALL DATA FLOWS



USDOT Proprietary		Southeast Michigan Connected Vehicle 2014	
26	Physical Layer 0	June 7, 2014	JLM

Upcoming Stakeholder Events

- Plug-Fests: <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)
 - <http://www.its.dot.gov/pilots/>



Twitter: @ITSJPODirector

Facebook: <https://www.facebook.com/DOTRITA>

Website: <http://www.its.dot.gov>



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.

Contact Information

- Walton Fehr - walton.fehr@dot.gov
- Greg Krueger- gregory.d.krueger@leidos.com
- Test Beds: <http://www.its.dot.gov/testbed.htm>

Intelligent Transportation Systems Joint Program Office

Updated January 27, 2014 12:01

Like 256

Print page

Intelligent Transportation Systems (ITS) ePrimer

Build your knowledge and expertise in ITS with a new, easy-to-use, FREE Web resource.

LEARN START

The ITS ePrimer provides transportation professionals, educators, students, and others with a series of up-to-date, Web-based modules describing key ITS topics, with a multimodal perspective.

U.S. Department of Transportation

1 2 3 4 5 6 7 8 >

Help Develop the Federal Highway Administration (FHWA) 2015 Guidance for Connected Vehicles

Read more...

Our Current Research

Applications Mode-Specific Cross-Cutting

- Vehicle-to-Vehicle Safety
- Vehicle-to-Infrastructure Safety
- Real-Time Data Capture
- Dynamic Mobility Applications
- Environment
- Road Weather
- Connected Vehicle Policy

More >>

Public Meetings

All ITS JPO meetings and webinars are free and open to the public. View meetings.

CONNECTED VEHICLE TECHNOLOGY

Connected Vehicle Test Beds

Procurement Opportunities

Stay Connected

Facebook Twitter Email RSS

Share

Spotlight

- Letter to Stakeholders from ITS JPO Director Ken Leonard 1/27/14
- Kevin Dopart Joins the Intelligent Transportation Systems Joint Program Office (ITS JPO) Team 1/22/14
- Second Public Meeting on the Connected Vehicle Reference Implementation Architecture 1/16/14

More News>>