ITS Joint Program Office

Southeast Michigan Test Bed

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SE Michigan Test Bed 2014 Architecture Implementation to Support Data Exchanges

- **Goal** – Provide interoperability between vendors, operators, and solution providers by developing V2I data exchanges at the Southeast Michigan Connected Vehicle Test Bed in 2014.

- **Purpose** – Support development and testing activities at Southeast Michigan Deployment in preparation for ITS 2014 World Congress.

Source: Walt Fehr (USDOT)
Near-Term Test Bed Activities – Interoperability

- Interface definitions (Generation 3-based)
  - Implement broadcast-mode interface definitions (those centered around BSM, SPaT, and Signage)
  - Create peer-to-peer data exchange interface process, services and interface definitions (sample code, examples needed to support back office services)
  - RSE configurations (WSA’s for IP data services)

- Back office services
  - Security Credential Management System (update to more fully accommodate V-I usage)
  - Current, Local Situation Data Warehouse to support application development and data collection
  - Traveler Information Warehouse to support application development
Upcoming Schedule of Events

- **Southeast Michigan 2014 Reference Architecture Meeting** – at Turner Fairbank Highway Research Laboratory, October 29-30, 2013
  - Architecture walk-through
  - Q&A – stakeholder dialogue
  - Concept overview and vetting of PlugFests

- **Proposed Open Invitation Interface Testing Schedule**
  - Kick-Off ITS World Congress Demonstrators Tech Support
  - Test V2I interoperability and V2I interfaces
  - Support application development activities through data warehouses and peer-to-peer data exchanges
    - Inaugural PlugFest – January 2014 @ TFHRC
    - Midwestern PlugFest – March 2014 @ Novi
    - Western PlugFest – June 2014 @ Palo Alto
    - Bi-monthly World Congress Mini-Fests and webinars
    - Hackathon and Support for NextGen hardware – Post 2014 ITS World Congress
For More Information

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