

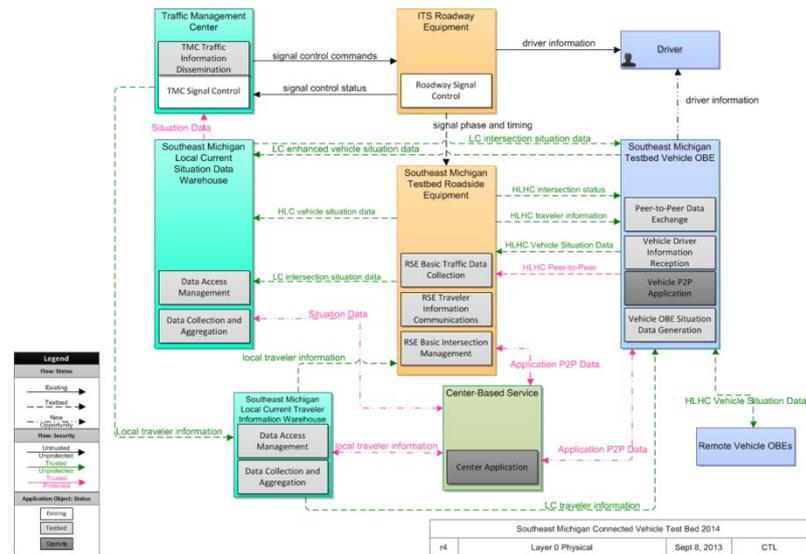
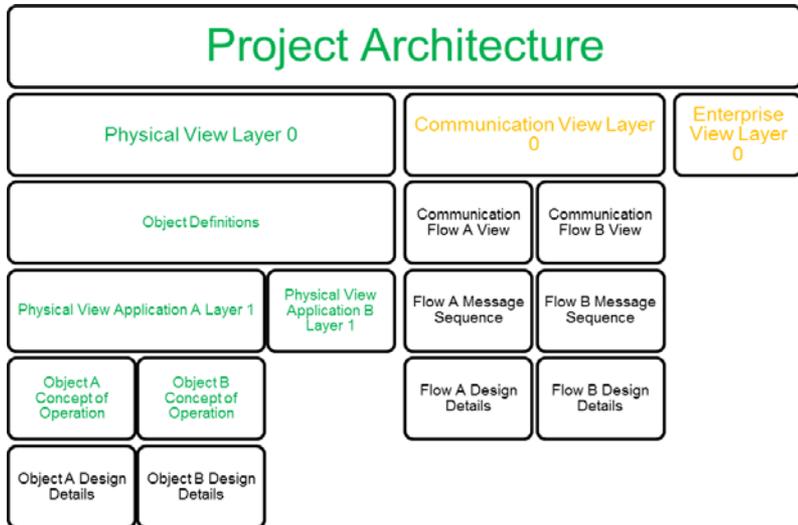
ITS Joint Program Office  
**Southeast Michigan Test Bed**

September 25, 2013

Brian Cronin

# 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



# Near-Term Test Bed Activities – Interoperability

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- 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

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- **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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The screenshot shows the homepage of the Research and Innovative Technology Administration (RITA). The header includes the RITA logo and the text "U.S. Department of Transportation Research and Innovative Technology Administration". Below the header is a navigation menu with links for "About", "Research", "Tech Transfer", "Library", "Press Room", and "Training". A search bar is located in the top right corner. The main content area features a large image of a highway with a "Knowledge Resources" section, a "Recruitment Opportunities" section, and a "Public Meetings" section. A "Spotlight" section highlights "U.S. Department of Transportation Launches Geographical View of National ITS Deployment". A "Our Current Research" section lists topics like "Vehicle-to-Vehicle Safety" and "Road-to-Road Safety". A "Stay Connected" section includes social media links for Facebook, Twitter, Email, and RSS. The footer contains the RITA address and contact information.

<http://www.its.dot.gov/testbed.htm>