Vision

Southeast Michigan Connected Vehicle Test Bed 2014
Project Information Meeting
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Related Activities – Getting ready for what’s next

- Tuesday Interoperability calls
- PlugFests
- Southeast Michigan 2014 project
- Affiliated Test Beds

- Multi-site interoperability
- ITS World Congress 2014
- 2015, 2016 ITS JPO projects
A Design Tool, not a Design.
Other Engineering Disciplines have Graphical Tools
ITS National Architecture


- Broadcast and Peer-to-Peer data exchanges
- Enable Big Data
- Multiple wireless communication media
Southeast Michigan Connected Vehicle Test Bed 2014
Project Architecture

Complete Architecture shown in a set of views

- Physical view(s) [THINGS] – overviews and specifics of objects for each application
- Enterprise views [PEOPLE] – includes installation, operations, maintenance and certification diagrams for each physical diagram
- Communication views [INFORMATION] – one for each information flow (interface)
Fundamentals

- Situation Data
  - The state of a key element of the system at a specific time
  - Defining the data flow and evolution
- Time and Place Context to Data and Information

- Separation of Information Distribution and Presentation
- Common Cryptographic Processes to assure Trust and Protect Ownership
An Implementation, *not* THE Implementation
Needed Experiences

- Consistent security process
- Consistent message exchange process
- Data flow and evolution
- DSRC operating on all 7 channels
Place and Time Context

- Place: Southeast Michigan

- Time: Now till the end of 2014
  - Design now
  - First operation: spring, 2014
  - Full operation: summer, 2014

Image Source: Google Earth
Physical View – Southeast Michigan 2014 Layer 0