



National ITS Architecture Deployment Support

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T3 Webinars are brought to you by the ITS Professional Capacity Building Program (ITS PCB) at the U.S. Department of Transportation's (USDOT) ITS Joint Program Office, Research and Innovative Technology Administration (RITA)



RESEARCH AND INNOVATIVE TECHNOLOGY ADMINISTRATION

INTELLIGENT TRANSPORTATION SYSTEMS

Deployment Support

- Evolution of Deployment Support
 - ITS Architecture Development
 - Development Process Workshops
 - Turbo Architecture Tool modifications to support Rule 940 as result of architecture assessments
 - ITS Architecture Implementation
 - Use and Maintenance Workshops
 - Emphasis on planning and project development of ITS
 - Systems Engineering Workshops
 - Emphasis on project delivery process
 - On time, within budget and meets the intended purpose

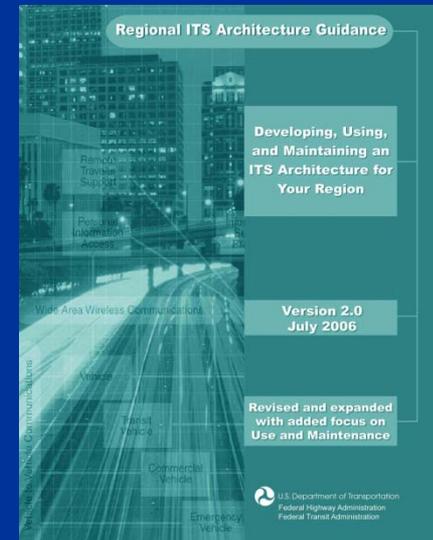
Deployment Support

- USDOT Support Goals and Objective
 - Helping agencies comply with Rule 940
 - Using and maintaining their regional architecture
 - Applying systems engineering on ITS projects
- Available through FHWA Division Office, Resource Center, & Office of Traffic Mgt

Use & Maintenance Workshops

- 2-day Workshop
 - Using ITS architecture in planning and project development
 - Maintaining ITS architecture
 - Based on Regional ITS Architecture Guidance Document

[ops.fhwa.dot.gov/publications/
regitsarchguide/index.htm](https://ops.fhwa.dot.gov/publications/regitsarchguide/index.htm)



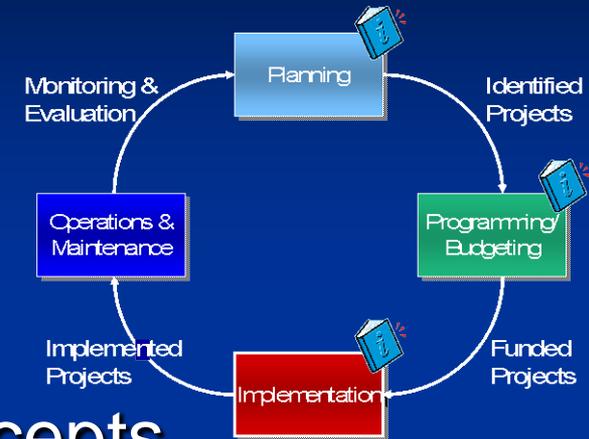
Use & Maintenance Workshops

■ Workshop Format

- Lecture
- Discussion
- Exercises applying lecture concepts

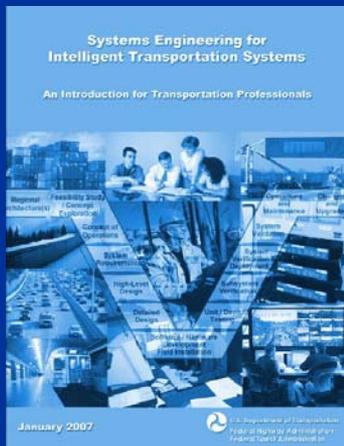
■ Agenda

- Architecture Use in Planning
- Architecture Use in Programming/Budgeting
- Architecture Use in Project Implementation
- Architecture Maintenance



Systems Engineering Workshops

- 2-day workshop
 - Basic systems engineering training
 - Custom ITS Project development process review
 - How to comply with Rule 940.11
 - Based on FHWA Systems Engineering for ITS Handbook and Guidebook



▶ ops.fhwa.dot.gov/publications/seitsguide/index.htm

www.fhwa.dot.gov/cadiv/segb/ ◀

The image is a screenshot of the FHWA Systems Engineering Guidebook for ITS website. The page has a blue header with the FHWA logo and navigation links. The main content area is white and features a "Welcome" message. Below the welcome message, there are five sections, each with a small icon and a title: "Process View", "Deliverable View", "Project View", "Role View", and "Document View". The "Project View" section includes a list of links: "What is Systems Engineering?", "Why Use Systems Engineering on Your Project?", and "Key Systems Engineering Principles". The "Role View" section includes a link to "A PDF (6MB) version of the Guidebook is also available." and a note that users will need the "Adobe Acrobat Reader" to view the PDF version. The "Document View" section includes a note that the content can be accessed through five different views and a link to "Select the view on the left that best suits your needs."

Systems Engineering Workshops

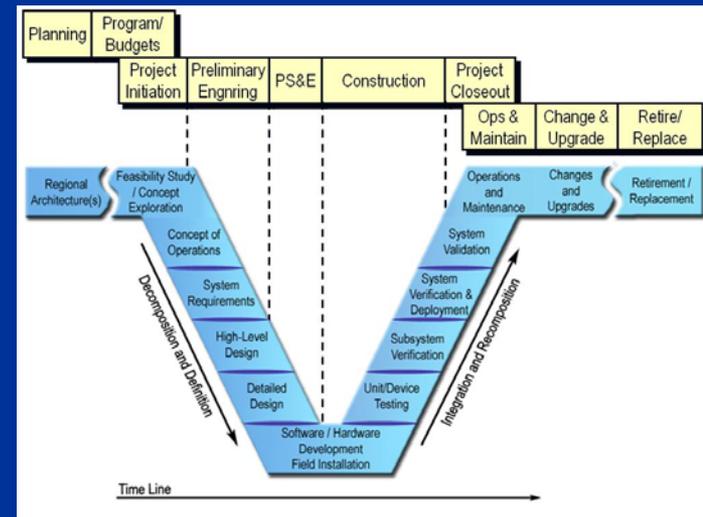
- Workshop Format
 - Lecture
 - Discussion
 - Facilitated Process Review Discussion
- Agenda
 - Systems Engineering V Process
 - Cross-cutting Activities
 - Applying Systems Engineering to a Project
 - Establishing Systems Engineering in your Organization
 - Process Improvement and Review



Systems Engineering Workshop

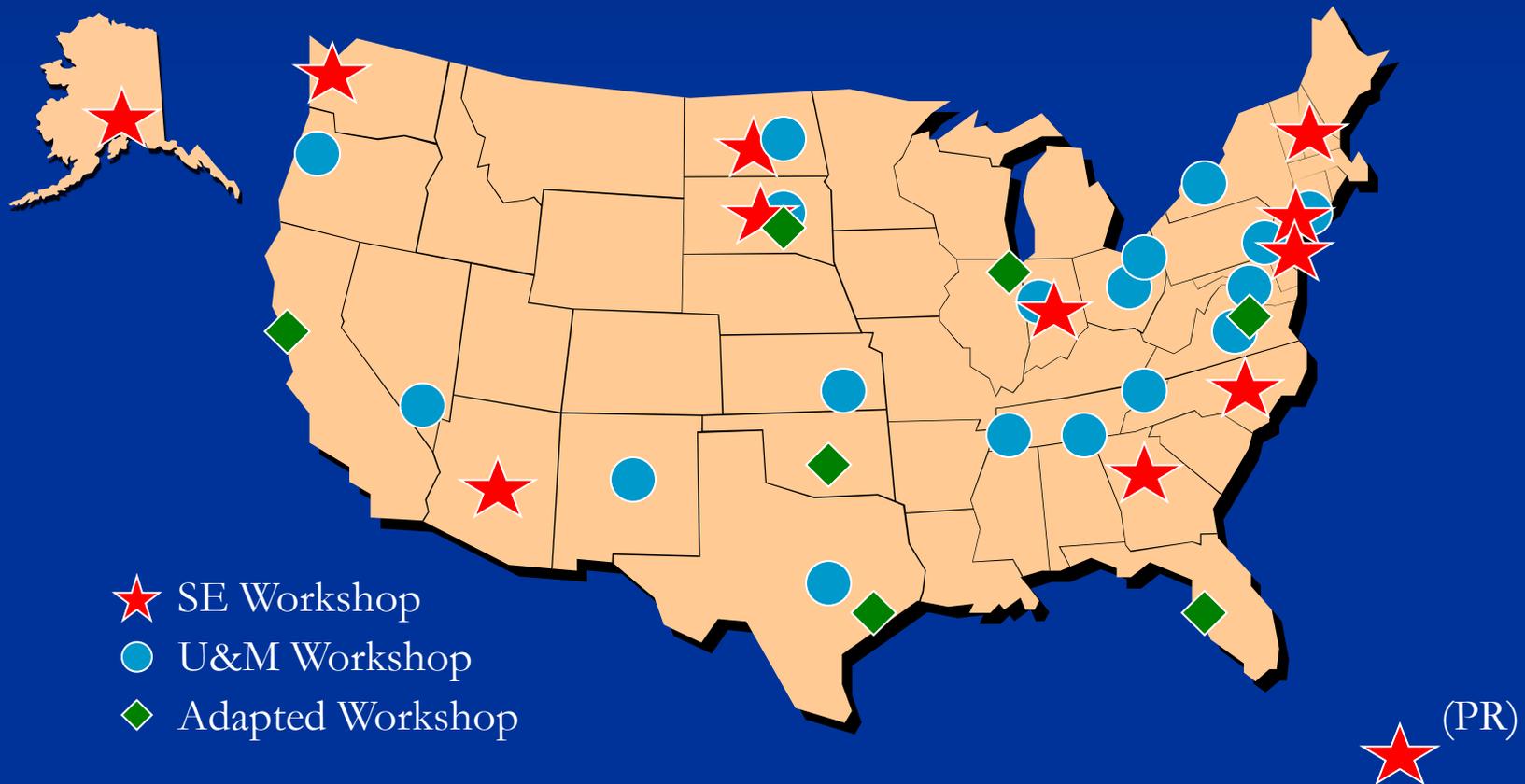
- Identify where SE is being done well and gaps in current project development process
- Detail where in Regional Architectures systems engineering information can be found to develop ITS projects
- Provide recommendations for developing a systems engineering program

- Customization of each agency process such as mapping of local process to SE process



Workshops

- 37 workshops over past 2 years



Technical Support

- National ITS Architecture Program provides direct technical assistance
 - Architecture development, use and update
 - Systems engineering
 - Institutional and technical issues
 - Review documents
 - Provide guidance
 - Programmatic in nature



Current Support Trends

- Architecture activity levels are increasing
 - Incorporation of architecture in planning
 - Use of architecture in systems engineering
- Systems Engineering demand is growing
 - Increased demand for SE workshops
 - Interest in process improvement to accommodate systems engineering process
- FHWA Division Office representatives ready to help and are backed by the Office of Traffic Management and Architecture Program resources

Resources

- Contact FHWA Resource Center/Division Offices
- Systems Engineering Web Page (FHWA)
http://www.ops.fhwa.dot.gov/int_its_deployment/sys_eng.htm
- Lessons Learned Knowledge Resource (ITS JPO)
http://www.itslessons.its.dot.gov/its/benecost.nsf/LessonSystem_sEng
- Archived T3 Webinars
<http://www.pcb.its.dot.gov/T3/archives.asp>
- California SE Guide Book
<http://www.fhwa.dot.gov/cadiv/segb>
- Guide to Contracting ITS Projects (NCHRP)
<http://www.trb.org/nchrp/its/index.htm>

Contact Information & Thank You!

- ITS Implementation Support:
 - http://www.ops.fhwa.dot.gov/its_arch_imp/index.htm
 - Nathaniel Price, Oregon DO/FHWA Resource Center
 - (503) 587-4709, nathaniel.price@dot.gov
 - Emiliano Lopez, FHWA Office of Transportation Management
 - (202) 366-2199, emiliano.lopez@dot.gov
- National ITS Architecture Program:
 - <http://www.its.dot.gov/arch/index.htm>
 - Steve Sill
 - US DOT ITS Joint Program Office
 - (202) 366-1603, steve.sill@dot.gov