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St. Louis Regional ITS Architecture Update

Innovation for better mobility

Why Build an ITS Architecture?

- To develop a regional plan for our ITS System.
- To Integrate transportation system management and operations regionally.
- To guide the further development of the regional ITS system.
- To satisfy federal requirements for ITS expenditures.

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What is ITS?

The use of information and communications technologies to meet transportation needs

GATEWAY
Metro
A Bi-State Development Enterprise

ITS Service Areas

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Traffic Management

Traveler Information

Public Transit

Commercial Vehicle Operations

Emergency Management

Maintenance & Construction Management

Electronic Payment

Archived Data Management

Emerging Area

- **Connected Vehicles**
  - **Vehicle-to-Vehicle communications (safety messages)**
  - **Vehicle-to-Roadside communications**
  - **Safety, Mobility, Environmental applications**

What Is an ITS Architecture?

- **Framework for Integrating Transportation Systems**
- **Identifies:**
  - **Organizations**
  - **Systems Operated**
  - **Functions Performed**
  - **Communications**
  - **Information Exchanged**

ITS Architectures Provides a Framework for Integration

Stakeholders' Role

- Groups who own, operate, maintain and use ITS systems to manage the transportation network.
- Identify existing and planned ITS systems.
- Identify the Region's needs.
- Identify strategies to address those needs.

How do we Implement the Vision?

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Origin:

Existing Systems, Current and Future Needs

How to get there:

Strategic Deployment Plan

Destination:

Ultimate Regional ITS Architecture

Stakeholder Outreach

- Stakeholder Workshop #1
  - Inform stakeholders about the project
  - Learn from stakeholders
    - Stakeholder's current operational activities
    - Future activities and needs
- Major Stakeholder Meetings
- User Surveys

Stakeholder Outreach

- **Stakeholder Workshop #2**
  - **Present and discuss an operational concept**
    - **Identifies roles and responsibilities of stakeholders in the operation of the ITS system**
  - **Receive input on candidate regional ITS initiatives**
  - **Begin process to prioritize the ITS services**

Results So Far:

- Workshop
- Meetings
- Survey

"Common Threads"

- Improve coordination between agencies
- Improve information to travelers
- Expand system coverage

Other Key Needs

- Delay / congestion / safety focus
- Freight / CVO enforcement and services
- Training

Three Levels of Initiatives

- "TIER 1" projects support regional coordination, cooperation and multi-modal traveler information, as well as efforts to standardize and share traffic incident, event and emergency information
- "TIER 2" projects represent corridor operational strategies that may also be multi-modal in nature. May impact one or more Interstate corridors as well as multiple travel modes within a particular corridor or sub-area.
- "TIER 3" projects improve internal traffic or transit operations activities for a particular stakeholder

Next Steps

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- Complete Operational Concept
- Define Specific Projects
- Define Regional and Project Architectures
- Develop Deployment Plan / Time Frames
- Project Completion June 30

Project Web Site

https://secure.iteris.com/share/STL/

- Project Announcements
- Project Deliverables
- Link to Needs and ITS Service Prioritization Surveys
- Turbo Architecture Output
- Questions and Comment Links