# Workshop Overview

▷ Welcome and Introductions

▷ Presentation and Discussion on the Draft Regional ITS Architecture Document and Project Website

▷ Presentation and Discussion on the Regional ITS Deployment Plan

  ▷ Review of Potential ITS Projects and Operations Initiatives to be Considered in the Austin Region

  ▷ Selection of Regional ITS Projects and Operations Initiatives to Include in the Austin Regional ITS Deployment Plan

  ▷ Prioritization of Regional ITS Projects and Operations Initiatives for the Austin Region

▷ Concluding Comments and Adjourn

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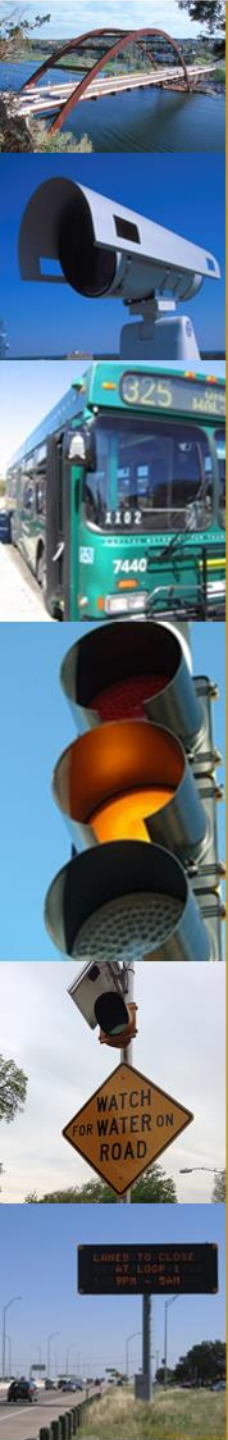
Project Overview

▷ Purpose: Update the 2007 Austin Regional ITS Architecture report and Deployment Plan

▷ Update goals:

  ▷ Include participation from traffic, transit, and public safety stakeholders representing local, state, and federal agencies in the Austin Region

  ▷ Provide a high level plan that documents the Region's vision for the deployment, integration, and operation of ITS in the Austin Region

  ▷ Assist the Region in meeting the FHWA and FTA requirements for ITS architecture conformity

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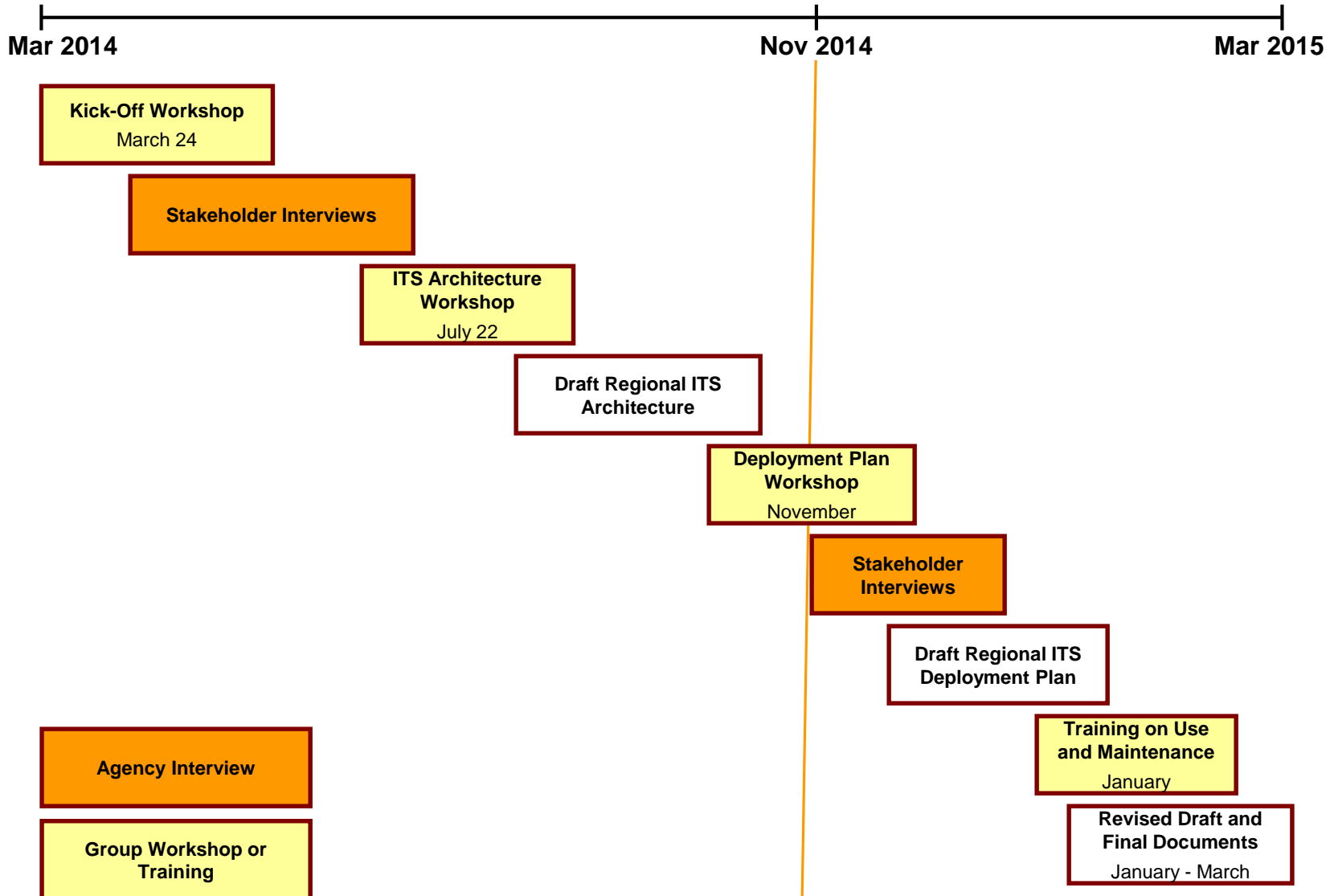
Austin Regional Boundaries

The regional boundaries have been defined as the boundaries of the TxDOT Austin District

Bastrop, Blanco, Burnet, Caldwell, Gillespie, Hays, Lee, Llano, Mason, Travis and Williamson
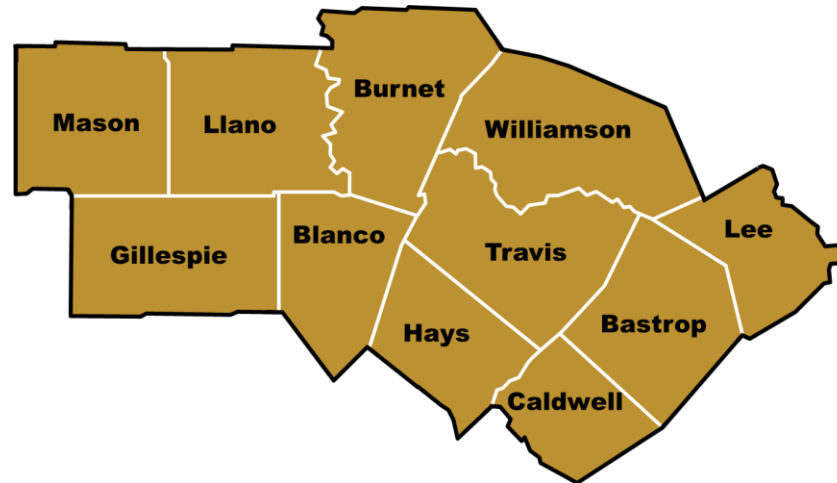
Connections will be added to all agencies outside the regional boundaries as appropriate

Project Overview

Mar 2014   Nov 2014   Mar 2015

Kick-Off Workshop
March 24

Stakeholder Interviews

ITS Architecture Workshop
July 22

Draft Regional ITS Architecture

Deployment Plan Workshop
November

Stakeholder Interviews

Draft Regional ITS Deployment Plan

Training on Use and Maintenance
January

Revised Draft and Final Documents
January - March

Agency Interview

Group Workshop or Training

Deliverables
(Completed)

▸ Draft Regional ITS Architecture

    ▸ Available for review on project website

    ▸ Comments requested by **December 5, 2014**

    ▸ Contact project team if you would like a MS Word Version for review or need additional time

▸ Project Website

    ▸ Includes draft documents, interactive architecture, use and maintenance section, contacts, etc.

    ▸ Available at: **www.AustinITSArchitecture.com**

▸ Turbo Architecture Database (Version 7.0)

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Deliverables
(Remaining)

▷ Regional ITS Deployment Plan

  ▷ Identifies ITS projects for the Region

  ▷ Demonstrated project conformance to the Regional ITS Architecture

  ▷ Draft prepared in December

▷ Regional ITS Architecture Use and Maintenance Training

 ▷ Delivered in February/March

▷ Executive Summary

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# Draft Regional ITS Architecture

Draft Regional ITS Architecture

‣ Comments requested by **December 5**

‣ Submit in any format that is convenient

‣ Recommended Review Tables:

  ‣ ITS Inventory

  ‣ ITS Service Packages

  ‣ Roles and Responsibilities

‣ Recommended Review Appendices:

  ‣ Appendix B - ITS Service Package Diagrams



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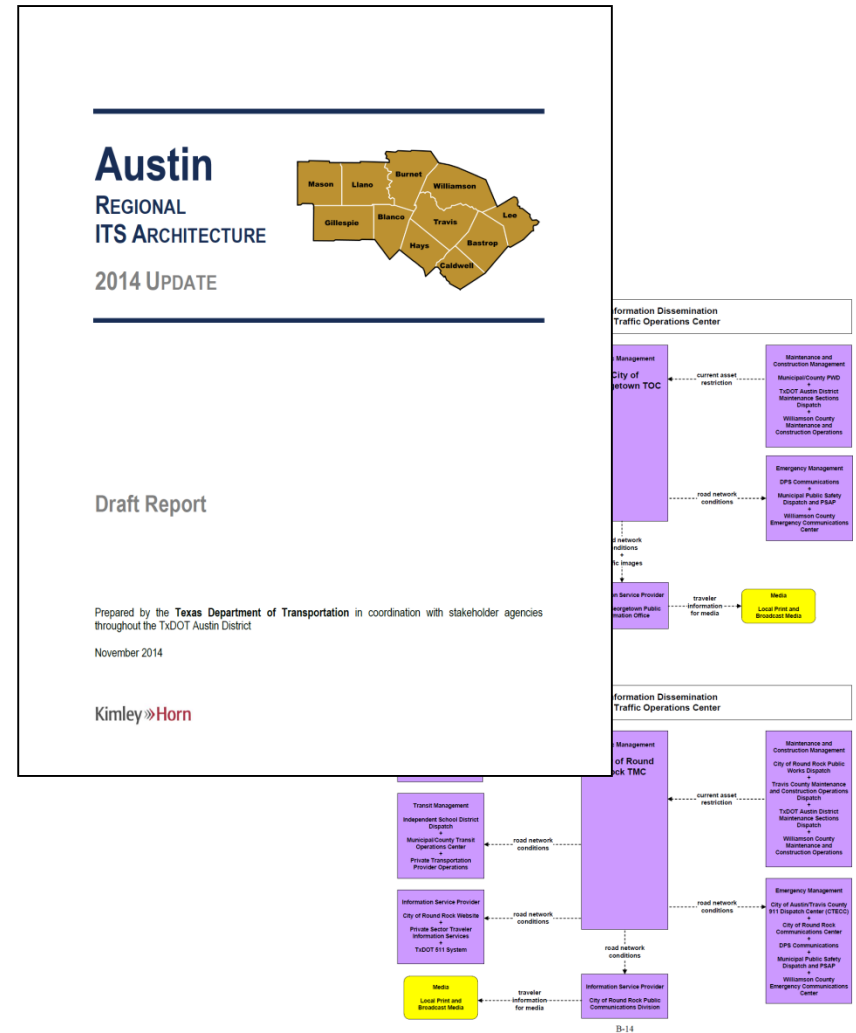
Project Website
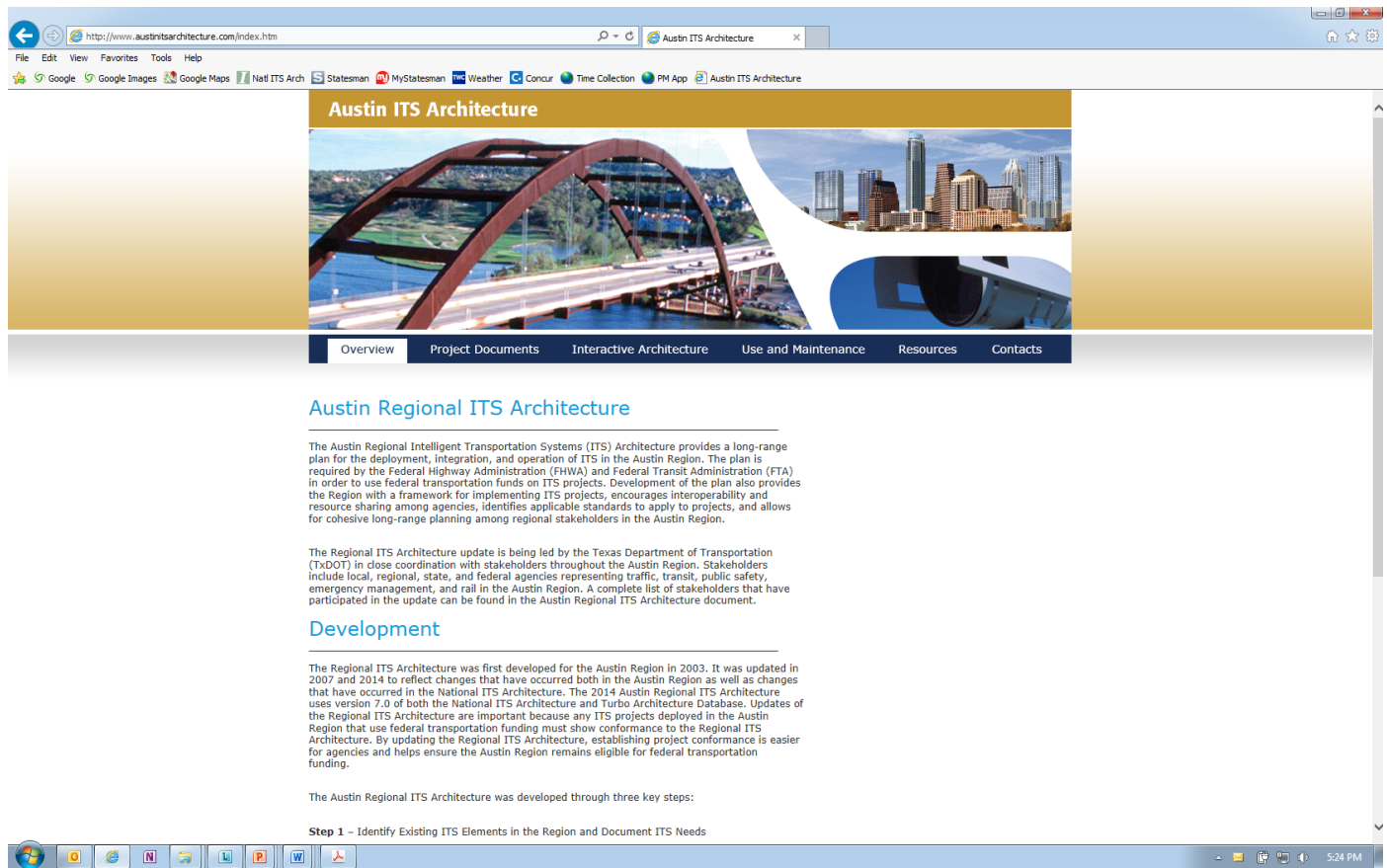
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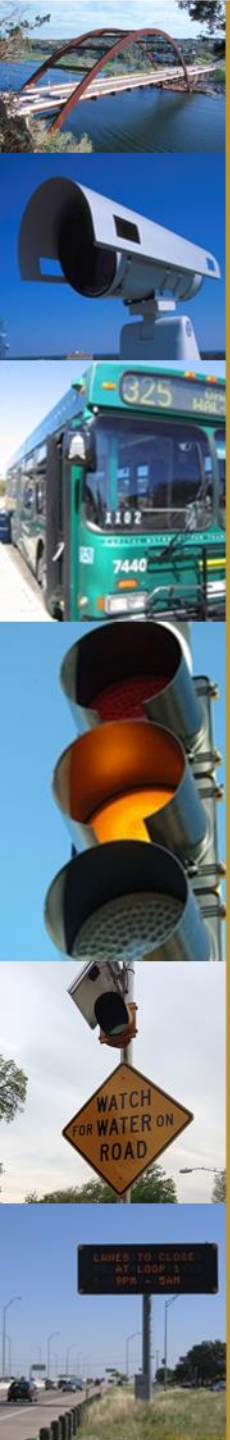
ITS Deployment Plan

ITS Deployment Plan

Areas Where the Region is Doing Well

ITS Deployment	Freeway Status	Arterial Status
Traffic Management Centers	✓	✓
Vehicle Detection and Monitoring Systems	✓	✓
Coordinated Traffic Signals	NA	✓
Traffic Signal Preemption for Emergency Vehicles	NA	✓
Transit Signal Priority	NA	✓
Transit Traveler Information	✓	
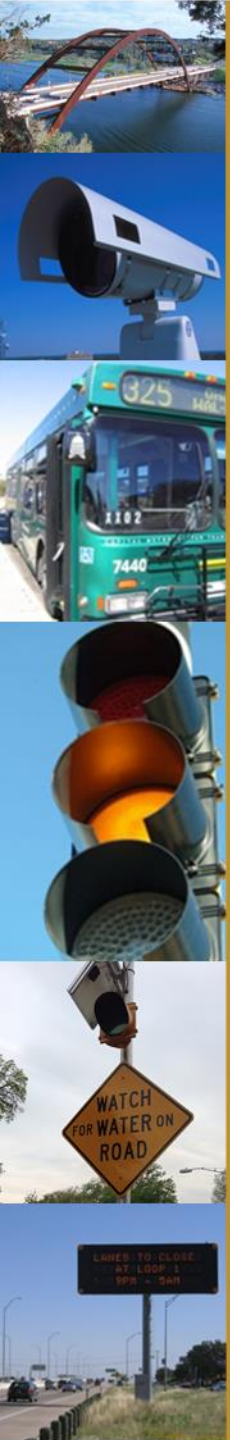
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ITS Deployment Plan

Areas Where Improvement is Needed

ITS Deployment	Freeway Status	Arterial Status
Active Traffic Management (Managed Lanes, Lane Control Signals, Variable Speed Limits, Ramp Meters)	Partial	Need
Travel Times	✔	Need
Freeway Service Patrol	Partial	NA
Adaptive Signal Control	NA	Need
Road Weather Information	✔	Need

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ITS Deployment Plan

Areas Where Improvement is Needed

ITS Deployment	Freeway Status	Arterial Status
Traveler Information (Websites)*	Partial	Need
Traveler Information (Social Media)*	Partial	Need

*Stakeholders identified need to combine freeway and arterial traveler information into a single location for all regional traveler information

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ITS Deployment Plan

Areas Where Improvement is Needed

ITS Deployment	Regional Status
Center-to-Center Communications (TxDOT-to-TxDOT)	Partial
Center-to-Center Communications (TxDOT-to-Local)	Partial
Center-to-Center Communications (Local-to-Local)	Need

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ITS Deployment Plan

Areas Where Improvement is Needed

ITS Deployment	Regional Status
Traffic Incident Management (Training, Policies and Procedures, CAD data sharing)	Partial
Integrated Corridor Management	Need
Archived Data Warehouse	Need
Regional or Statewide Transit Payment System	Partial
Autonomous / Connected Vehicles	TBD

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ITS Deployment Plan Project Discussion
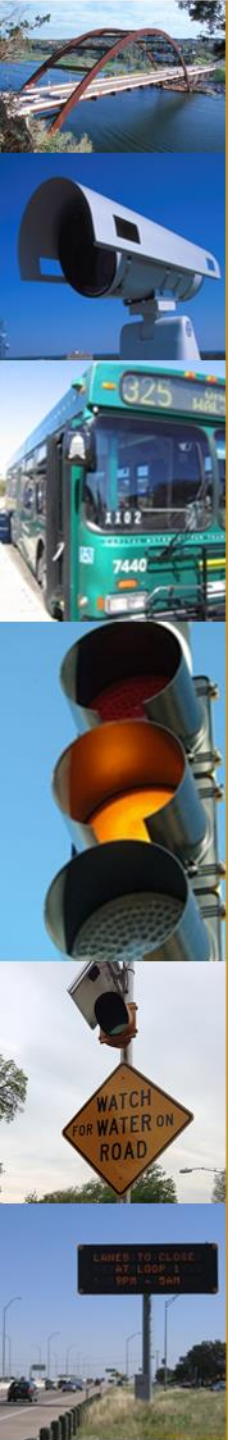
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Regional Projects to Discuss

▷ Regional Traveler Information Improvements

▷ Traffic Incident Management Improvements

▷ Freeway Service Patrol Expansion

▷ Integrated Corridor Management

▷ Center-to-Center Communications (TxDOT-to-Local)

▷ Center-to-Center Communications (Local-to-Local)

▷ Regional or Statewide Transit Payment System

▷ Archived Data Warehouse Implementation

Project Discussion

Regional Traveler Information Improvements

Regional Traveler Information	
Stakeholders	TxDOT, CTRMA, CAMPO, Cities, CapMetro, CARTS
Components	Travel times and road conditions, transit information, customized information for travelers
Status	Limited information on arterials, information is currently spread out over many agencies in many locations, limited ability for travelers to customize information
Priority	High

Project Discussion

Traffic Incident Management Improvements

Traffic Incident Management	
Stakeholders	TxDOT, CTRMA, CAMPO, Counties, Cities
Components	AIMHigh Coalition, freeway and arterial monitoring, CAD incident data sharing, freeway service patrol, signal timing plans for incidents, training
Status	AIMHigh coalition meets on regular basis, freeway and arterial monitoring exists but should expand, limited CAD incident data sharing and freeway service patrol, signal timing plans for incidents are needed, signage possibly needed for detour routes Are there training needs?
Priority	High

Project Discussion

Freeway Service Patrol Expansion

Freeway Service Patrol	
Stakeholders	TxDOT, CTRMA, CAMPO
Components	Freeway Service Patrol vehicles, dispatching, coordination with public safety
Status	Deployed only on I-35, need to expand coverage area and services provided
Priority	High

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Project Discussion

Integrated Corridor Management Deployment

Integrated Corridor Management	
Stakeholders	TxDOT, CTRMA, Capital Metro, Austin Other Cities?
Components	Freeway and arterial monitoring, travel time monitoring, regional traveler information
Status	Regional initiative currently in place to develop ICM
Priority	High

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Project Discussion

Center-to-Center Communications (TxDOT-to-Local)

Center-to-Center Communications (TxDOT-to-Local)	
Stakeholders	TxDOT, Cities, CapMetro, CARTS
Components	Video sharing, CAD incident data sharing, other travel information
Status	Existing connections between TxDOT and City of Austin, Incident information through agencies at CTECC Additional data sharing is needed for agencies not located at CTECC
Priority	High

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Project Discussion

Center-to-Center Communications (Local-to-Local)

Center-to-Center Communications (Local-to-Local)	
Stakeholders	Cities, CapMetro, CARTS
Components	Traffic signal coordination, real-time and planned road closures
Status	Limited signal coordination and information sharing, planned road closures often shared through email or fax but not in real time For signal coordination only Austin-Round Rock and Austin-Cedar Park were identified as needs. CapMetro and CARTS have a need for real-time closure information.
Priority	Medium

Project Discussion

Regional or Statewide Transit Payment System

| Regional or Statewide Transit Payment System	
Stakeholders	Capital Metro, CARTS
Components	Fare payment system that can be used on all transit modes in the region or statewide
Status	Separate fare payment systems for each agency
Priority	High

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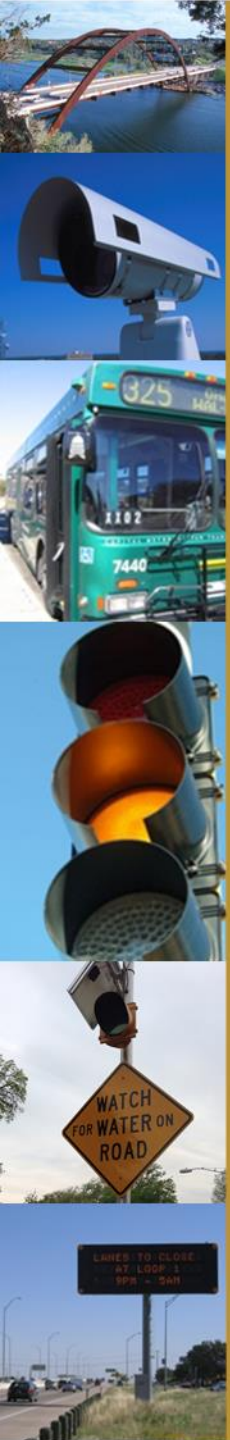
Project Discussion

Archived Data Warehouse Implementation

Archived Data Warehouse	
Stakeholders	TxDOT, CTRMA, CAMPO, Cities and Counties, Capital Metro, CARTS
Components	Data warehouse to store regional travel data. Could be a done virtually.
Status	Agencies store limited data but warehouse is not available
Priority	Medium

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Regional Projects to Discuss

▷ Regional Traveler Information Improvements

▷ Traffic Incident Management Improvements

▷ Freeway Service Patrol Expansion

▷ Integrated Corridor Management

▷ Center-to-Center Communications (TxDOT-to-Local)

▷ Center-to-Center Communications (Local-to-Local)

▷ Regional or Statewide Transit Payment System

▷ Archived Data Warehouse Implementation

▷ **Other Projects**

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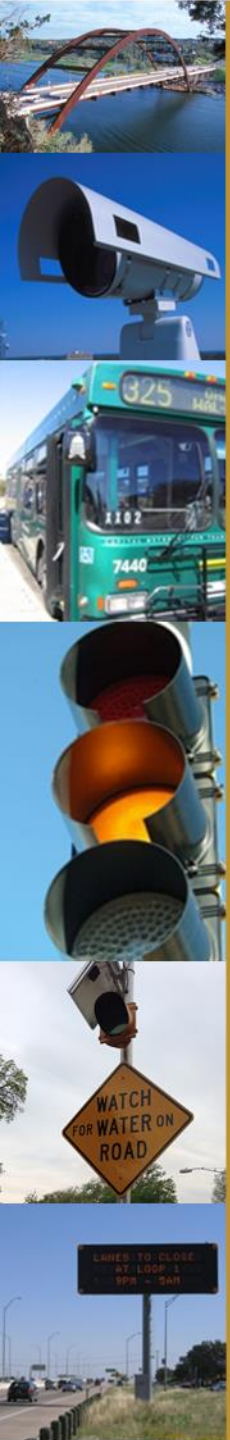
Next Steps

- Stakeholders to Provide Comments on Draft Regional ITS Architecture Document by **December 5, 2014**

- Develop Regional ITS Deployment Plan

- Upcoming Workshops
  - ITS Architecture Use and Maintenance Training in February/March
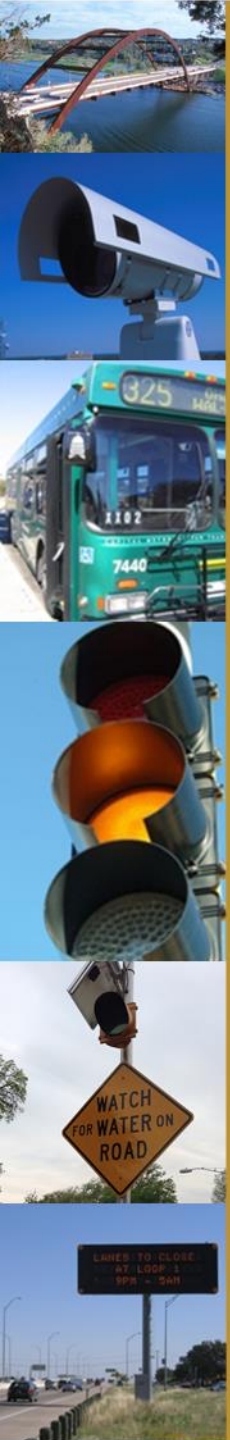
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Thank You!

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