

# ARCHITECTURE WORKSHOP MINUTES

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**MEETING DATE:** August 20, 2008

**MEETING TIME:** 9:00 AM

**MEETING LOCATION:** Hamblen County Courthouse

**ATTENDEES:**

Mark Best, TDOT Knoxville SmartWay Center  
Jeff Branham, City of Morristown  
Rich DesGroseilliers, Lakeway MTPO  
Don Gedge, Federal Highway Administration  
Terry Gladden, TDOT Long Range Planning  
Mike Jones, City of Jefferson City

Gary Lowe, City of Morristown Police Department  
Brian Rhodes, City of Jefferson City  
Joseph Roach, TDOT Long Range Planning  
Randall Woods, Jefferson County Sheriff's Department  
Tom Fowler, Kimley-Horn and Associates  
Amy Lewis, Kimley-Horn and Associates

**SUBJECT:** Lakeway Regional ITS Architecture Development Workshop

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1. Introductions

Amy Lewis welcomed everyone and thanked the stakeholders for their attendance. Everyone in attendance introduced themselves and identified the agency or organization they were representing. Kimley-Horn is currently under contract with the Tennessee Department of Transportation (TDOT) to develop an intelligent transportation system (ITS) architecture and deployment plan for the Lakeway Region. This is the second in a series of four workshops. The next meeting will be the ITS Deployment Plan Workshop on Wednesday, October 1, 2008.

2. Overview of the National ITS Architecture and Regional ITS Architecture Development Process

Amy provided an overview of the National ITS Architecture. The current version (6.0) contains 91 market packages. Market packages represent the services that ITS can provide, such as network surveillance, traffic information dissemination, or emergency routing. A regional ITS architecture identifies the market packages applicable to a region and customizes them to address regional ITS needs. The customized market package diagrams identify the connections between agencies and what types of information are to be shared. Completion of the plan does not guarantee any funding for the Region, but does allow the Region to be eligible for future federal funding of ITS projects.

3. Market Package Selection

Amy turned the meeting over to Tom Fowler who led a discussion to select market packages for the Lakeway Region. A table of market packages indicating those selected is included at the end of the minutes.

#### 4. Market Package Customization

After the market packages for the Region had been selected, Tom and Amy worked with stakeholders to customize those market packages for the Lakeway Region. During the customization process the following decisions about how the Region would be represented were made:

- Based on population size and current plans for ITS, the City of Morristown will be documented independently. The City of Jefferson City will be documented individually for traffic management related functions but included in the Municipal market package instances in all other service areas. The Municipal instances also demonstrate architecture compliance for other municipalities in the Region, such as White Pine or Dandridge, that may in the future decide to implement additional ITS.
- The East Tennessee Human Resource Agency (ETHRA) demand response transportation services will be included in the Lakeway Regional ITS Architecture as a recipient of information and for future coordination only. The Lakeway Region constitutes only a small portion of the ETHRA service area so it was decided that they were more appropriately covered in the statewide architecture or possibly the Knoxville Regional ITS Architecture if they choose to participate during the next update.
- A placeholder for an urban transit system was included for the City of Morristown called Morristown Transit. The City is in the planning stages for such a service and the architecture will document basic transit services in preparation for that system moving forward in the next several years.

The customized market packages will be made available to stakeholders in PDF format for review before the team proceeds with the development of the Draft Regional ITS Architecture turbo database and document. Comments on the market packages were requested by September 15, 2008.

#### 5. ITS Deployment Plan

The next step in the process is to develop the Lakeway Regional ITS Deployment Plan. Stakeholders were provided with a project input form that they can complete with project ideas and fax back to Tom and Amy at 512-418-1791. An electronic copy of that form will also be distributed with the minutes. Stakeholders were asked to fax or e-mail project ideas by September 15, 2008 so that they can be included in the draft project listing. The draft project listing will be discussed at the next workshop.

#### 6. Concluding Comments and Next Steps

Amy thanked everyone for their participation. She encouraged the ITS stakeholders to contact herself or Tom if they had any questions or if they would like to further discuss any of the market packages developed during the workshop.

All stakeholders will be sent minutes from the ITS Architecture Workshop and invited to the ITS Deployment Plan Workshop. The purpose of the ITS Deployment Plan Workshop will be to discuss specific ITS projects needed for the Region to implement the ITS services identified during the ITS architecture development process. That workshop is scheduled for October 1, 2008 from 9:00 AM to 12:00 Noon in Morristown. When the meeting location is finalized an announcement will be sent to the stakeholder group.

**Lakeway Regional ITS Architecture Market Package Selection**

Selection	Market Package	
<b>Traffic Management Service Area</b>		
X	ATMS01	Network Surveillance
	ATMS02	Traffic Probe Surveillance
X	ATMS03	Surface Street Control
	ATMS04	Freeway Control
	ATMS05	HOV Lane Management
X	ATMS06	Traffic Information Dissemination
X	ATMS07	Regional Traffic Management
X	ATMS08	Traffic Incident Management System
	ATMS09	Traffic Forecast and Demand Management
	ATMS10	Electronic Toll Collection
	ATMS11	Emissions Monitoring and Management
	ATMS12	Roadside Lighting System Control
X	ATMS13	Standard Railroad Grade Crossing
	ATMS14	Advanced Railroad Grade Crossing
X	ATMS15	Railroad Operations Coordination
	ATMS16	Parking Facility Management
	ATMS17	Regional Parking Management
	ATMS18	Reversible Lane Management
X	ATMS19	Speed Monitoring
	ATMS20	Drawbridge Management
	ATMS21	Roadway Closure Management
<b>Emergency Management Service Area</b>		
X	EM01	Emergency Call-Taking and Dispatch
X	EM02	Emergency Routing
	EM03	Mayday and Alarms Support
X	EM04	Roadway Service Patrols
	EM05	Transportation Infrastructure Protection
X	EM06	Wide-Area Alert
	EM07	Early Warning System
X	EM08	Disaster Response and Recovery
X	EM09	Evacuation and Reentry Management
X	EM10	Disaster Traveler Information
<b>Maintenance and Construction Service Area</b>		
X	MC01	Maintenance and Construction Vehicle and Equipment Tracking
X	MC02	Maintenance and Construction Vehicle Maintenance
X	MC03	Road Weather Data Collection
X	MC04	Weather Information Processing and Distribution
	MC05	Roadway Automated Treatment
X	MC06	Winter Maintenance
X	MC07	Roadway Maintenance and Construction
X	MC08	Work Zone Management
X	MC09	Work Zone Safety Monitoring
X	MC10	Maintenance and Construction Activity Coordination
	MC11	Environmental Probe Surveillance
	MC12	Infrastructure Monitoring

Selection	Market Package	
	<b>Public Transportation Service Area</b>	
X	APTS01	Transit Vehicle Tracking
X	APTS02	Transit Fixed-Route Operations
X	APTS03	Demand Response Transit Operations
X	APTS04	Transit Fare Collection Management
X	APTS05	Transit Security
X	APTS06	Transit Fleet Management
X	APTS07	Multi-modal Coordination
X	APTS08	Transit Traveler Information
	APTS09	Transit Signal Priority
X	APTS10	Transit Passenger Counting
	<b>Commercial Vehicle Operations Service Area</b>	
	CVO01	Fleet Administration
	CVO02	Freight Administration
	CVO03	Electronic Clearance
	CVO04	CV Administrative Processes
	CVO05	International Border Electronic Clearance
X	CVO06	Weigh-In-Motion
	CVO07	Roadside CVO Safety
	CVO08	On-board CVO and Freight Safety and Security
	CVO09	CVO Fleet Maintenance
X	CVO10	HAZMAT Management
X	CVO11	Roadside HAZMAT Security Detection and Mitigation
	CVO12	CV Driver Security Authentication
	CVO13	Freight Assignment Tracking
	<b>Traveler Information Service Area</b>	
X	ATIS01	Broadcast Traveler Information
X	ATIS02	Interactive Traveler Information
	ATIS03	Autonomous Route Guidance
	ATIS04	Dynamic Route Guidance
	ATIS05	ISP Based Trip Planning and Route Guidance
	ATIS06	Transportation Operations Data Sharing
	ATIS07	Yellow Pages and Reservation
	ATIS08	Dynamic Ridesharing
	ATIS09	In Vehicle Signing
	ATIS10	VII Traveler Information
	<b>Archive Data Management Service Area</b>	
X	AD1	ITS Data Mart
X	AD2	ITS Data Warehouse
	AD3	ITS Virtual Data Warehouse