

ARCHITECTURE WORKSHOP MINUTES

MEETING DATE: November 29, 2007

MEETING TIME: 9:00 AM

MEETING LOCATION: Virginia Department of Transportation Bristol District Office

ATTENDEES:

Bill Albright, Kingsport MPO
Wayne Anderson, Sullivan County Sheriff
Glenn Berry, Johnson City MTPO
Mark Best, Tennessee DOT
Scott Boyd, City of Kingsport Fire Department
Chris Campbell, Kingsport MPO
Ralph Comer, Tennessee DOT
Don Gedge, Federal Highway Administration

Walt Owenby, Tennessee Highway Patrol
Jack Qualls, Kingsport MPO
Joseph Roach, Tennessee DOT
Michael Thompson, City of Kingsport Public Works
Amy Lewis, Kimley-Horn and Associates
Jeff Dale, Kimley-Horn and Associates
Jonathan Moore, Kimley-Horn and Associates
Eric Bollich, Kimley-Horn and Associates

SUBJECT: Kingsport Regional ITS Architecture Development Workshop

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 Bristol and Kingsport Regions. This is the second meeting in a series of four workshops. The next meeting will be the ITS Deployment Plan Workshop on Thursday, February 7, 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 of the National ITS Architecture (6.0) contains 91 market packages. Market packages are groups of transportation services. 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. Customization of Bristol and Kingsport Overlapping ITS Market Packages

The Bristol and Kingsport Regions both have portions of their Region within Sullivan County Tennessee and are located in TDOT Region 1. The group discussed the best way to address the overlap and opted to develop a set of market packages to address the overlap area. These market packages will be included in their entirety in both the Bristol and Kingsport Regional ITS Architectures. Amy worked with the group to customize the market packages with services that overlapped between the two regions.

4. Kingsport Region ITS Market Package Selection and Customization

Following the customization of the overlapping market packages the group split and Kingsport stakeholders met separately to develop the region specific portions of the architecture. Jeff Dale led a discussion to select market packages for the Kingsport Region. A table of market packages indicating those selected is included at the end of the minutes. After the market packages for the Region had been selected, Jeff and Eric Bollich worked with stakeholders to customize those market packages for the Kingsport Region. 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 Architecture database and document. Comments on the market packages were requested by January 4, 2008.

5. ITS Deployment Plan

The next step in the process is to develop the Kingsport Regional ITS Deployment Plan. Stakeholders were provided with a project input form that they can complete with project ideas and fax back to 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 January 4, 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

Jeff thanked everyone for their participation. He encouraged the ITS stakeholders to contact Amy Lewis or Tom Fowler 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 February 7, 2008 from 9:00 AM to 12:00 Noon in Kingsport. Once the location has been finalized a workshop announcement will be sent out.

Kingsport Regional ITS Architecture Market Package Selection

Selection	Market Package	
Traffic Management Service Area		
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
Emergency Management Service Area		
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
Maintenance and Construction Service Area		
X	MC01	Maintenance and Construction Vehicle and Equipment Tracking
	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
	MC07	Roadway Maintenance and Construction
X	MC08	Work Zone Management
	MC09	Work Zone Safety Monitoring
X	MC10	Maintenance and Construction Activity Coordination
	MC11	Environmental Probe Surveillance

Selection	Market Package	
	MC12	Infrastructure Monitoring
Public Transportation Service Area		
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
	APTS07	Multi-modal Coordination
X	APTS08	Transit Traveler Information
	APTS09	Transit Signal Priority
X	APTS10	Transit Passenger Counting
Commercial Vehicle Operations Service Area		
	CVO01	Fleet Administration
	CVO02	Freight Administration
	CVO03	Electronic Clearance
	CVO04	CV Administrative Processes
	CVO05	International Border Electronic Clearance
	CVO06	Weigh-In-Motion
	CVO07	Roadside CVO Safety
	CVO08	On-board CVO and Freight Safety and Security
	CVO09	CVO Fleet Maintenance
	CVO10	HAZMAT Management
	CVO11	Roadside HAZMAT Security Detection and Mitigation
	CVO12	CV Driver Security Authentication
	CVO13	Freight Assignment Tracking
Traveler Information Service Area		
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
Archive Data Management Service Area		
X	AD1	ITS Data Mart
X	AD2	ITS Data Warehouse
	AD3	ITS Virtual Data Warehouse