

CHATTANOOGA REGIONAL ITS ARCHITECTURE UPDATE WORKSHOP MINUTES

WORKSHOP DATE: December 10, 2009

SUBJECT: Chattanooga Area Regional ITS Architecture Update – Architecture Development Workshop

SESSIONS AND ATTENDANCE:

Transit Management Session

Date and Time: December 10, 2009, 8:00 AM – 10:00 AM

Location: Development Resource Center

Don Gedge, FHWA
Patrick Hall, Chattanooga-Hamilton County Regional
Planning Agency
Annie Powell, Chattanooga Area Regional
Transportation Authority
Mike Presley, TDOT

Melissa Taylor, Chattanooga-Hamilton County
Regional Planning Agency
John Benditz, Kimley-Horn and Associates
Tom Fowler, Kimley-Horn and Associates
Amy Lewis, Kimley-Horn and Associates

Traffic and Emergency Management Session

Date and Time: December 10, 2009, 11:00 AM – 2:00 PM

Location: Development Resource Center

James Ball, TDOT Region 2
Ronald Boodhoo, Georgia DOT
John Collins, City of Chattanooga PD
Hugh Colton, Georgia DOT
Holly Crittenden, TDOT Region 2
Jeff Francis, City of Chattanooga PD
Don Gedge, FHWA
Daniel Hague, City of Chattanooga FD
Patrick Hall, Chattanooga-Hamilton County Regional
Planning Agency
Phil Hyman, City of Chattanooga FD
Steve Jones, City of Chattanooga PD
William Knox, City of Chattanooga FD
Stan Maffett, City of Chattanooga PD

Patricia Maines-Riggs, Tennessee Highway Patrol
Bill Middleton, City of Eastridge
Tommy Trotter, City of Chattanooga Traffic
Engineering and Operations
Bob Van Horn, TDOT Region 2
John Van Winkle, City of Chattanooga Traffic
Engineering and Operations
John Wall, City of Chattanooga Traffic Engineering
and Operations
Alan Wolfe, TDOT Region 2
Mike Presley, TDOT
John Benditz, Kimley-Horn and Associates
Tom Fowler, Kimley-Horn and Associates
Amy Lewis, Kimley-Horn and Associates

Welcome and Introductions

The Chattanooga Regional Intelligent Transportation System (ITS) Architecture Update workshops were divided into a Transit Management Session and a Traffic and Emergency Management Session. The sessions were held on a single day at the Development Resource Center with stakeholders representing federal, state, and local agencies in the Chattanooga-Hamilton County/North Georgia Region.

At each of the two sessions Tom Fowler welcomed everyone and thanked them for their continued involvement in the architecture update process and briefly recapped the Kick-off Workshop that was held in October 2009. The stakeholders introduced themselves and told which agency or organization they were representing.

Project Status Update and ITS Architecture Training

Tom provided an overview of the Chattanooga Regional ITS Architecture Update project and updated everyone on the project status. The December workshops are the second in a series of three workshops that will be held to update the Chattanooga Area Regional ITS Architecture. Tom also provided an overview of the National ITS Architecture. The current version (6.1) 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 should be shared.

Selection and Customization of ITS Market Packages

Following the presentation, in each of the sessions Tom Fowler and Amy Lewis led stakeholders through a discussion to select and customize market packages for the Chattanooga Region. Stakeholders were provided with a list of all of the market packages from the National ITS Architecture. The list indicated which market packages were included in the 2003 Chattanooga Regional ITS Architecture and which were recommended by the consultant team for inclusion in the 2010 update. Each market package was discussed with the stakeholders and a consensus was reached with the group on which to include. Of the 91 market packages available in the National ITS Architecture, the stakeholders in the Chattanooga Region selected 38 to consider for implementation. A table of the market packages selected is included with these minutes.

Once the market packages were selected, Amy Lewis led a discussion on how each should be customized for the Region. Existing and future data flows as well as appropriate agencies were added to each market packages based on the discussion with the stakeholders. The customized market packages will be made available to stakeholders in PDF format for review and comment before the team proceeds with the development of the Draft Regional ITS Architecture and Turbo Architecture database.

ITS Deployment Plan Projects

The next step in the process once the Draft ITS Architecture is completed is to develop the Chattanooga Regional ITS Deployment Plan. Stakeholders were provided with a project input form that they can complete with project ideas and fax back to Tom Fowler or John Benditz at Kimley-Horn. A copy of the form is included with these minutes. Stakeholders were asked to fax or e-mail project ideas by January 15, 2010 so that they can be included in the draft project listing. The draft project listing will be discussed at the next workshop.

Closing Comments and Next Steps

Tom and Amy thanked everyone for participating in the workshops and discussed the next steps of the Chattanooga Regional ITS Architecture Update project. The information collected at the workshops will be used to revise the ITS market packages and a Draft Regional ITS Architecture document will be developed and sent to stakeholders prior to the next project workshop.

The next workshop scheduled will be the ITS Deployment Plan Workshop, which will be held in February 2010. The purpose of the workshop will be to discuss potential ITS projects for the Chattanooga Region. The Chattanooga-Hamilton County Regional Planning Agency will send out a meeting notice when the date and location are finalized.

**CHATTANOOGA
REGIONAL ITS ARCHITECTURE UPDATE
DRAFT MARKET PACKAGE SELECTION**

| Recommended for 2010 Update | Selected in 2003 Version | Market Package | |
|--|-----------------------------|----------------|--|
| Traffic Management Service Area | | | |
| ✓ | ✓ | ATMS01 | Network Surveillance |
| | | ATMS02 | Traffic Probe Surveillance |
| ✓ | ✓ | ATMS03 | Surface Street Control |
| ✓ | | ATMS04 | Freeway Control |
| | | ATMS05 | HOV Lane Management |
| ✓ | ✓ | ATMS06 | Traffic Information Dissemination |
| ✓ | ✓ | ATMS07 | Regional Traffic Management |
| ✓ | ✓ | 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 |
| ✓ | ✓ | ATMS13 | Standard Railroad Grade Crossing |
| | | ATMS14 | Advanced Railroad Grade Crossing |
| | | ATMS15 | Railroad Operations Coordination |
| | | ATMS16 | Parking Facility Management |
| | | ATMS17 | Regional Parking Management |
| | ✓ | ATMS18 | Reversible Lane Management |
| ✓ | ✓ | ATMS19 | Speed Monitoring |
| | | ATMS20 | Drawbridge Management |
| ✓ | | ATMS21 | Roadway Closure Management |
| Emergency Management Service Area | | | |
| ✓ | ✓ | EM01 | Emergency Call-Taking and Dispatch |
| ✓ | ✓ | EM02 | Emergency Routing |
| | | EM03 | Mayday and Alarms Support |
| ✓ | ✓ | EM04 | Roadway Service Patrols |
| | | EM05 | Transportation Infrastructure Protection |
| ✓ | | EM06 | Wide-Area Alert |
| | | EM07 | Early Warning System |
| ✓ | | EM08 | Disaster Response and Recovery |
| ✓ | | EM09 | Evacuation and Reentry Management |
| ✓ | | EM10 | Disaster Traveler Information |

| Recommended for 2010 Update | Selected in 2003 Version | Market Package | |
|---|--------------------------|----------------|---|
| Maintenance and Construction Service Area | | | |
| ✓ | ✓ | MC01 | Maintenance and Construction Vehicle and Equipment Tracking |
| | ✓ | MC02 | Maintenance and Construction Vehicle Maintenance |
| ✓ | ✓ | MC03 | Road Weather Data Collection |
| ✓ | ✓ | MC04 | Weather Information Processing and Distribution |
| | | MC05 | Roadway Automated Treatment |
| | ✓ | MC06 | Winter Maintenance |
| | ✓ | MC07 | Roadway Maintenance and Construction |
| ✓ | ✓ | MC08 | Work Zone Management |
| | | MC09 | Work Zone Safety Monitoring |
| ✓ | ✓ | MC10 | Maintenance and Construction Activity Coordination |
| | | MC11 | Environmental Probe Surveillance |
| | | MC12 | Infrastructure Monitoring |
| Public Transportation Service Area | | | |
| ✓ | ✓ | APTS01 | Transit Vehicle Tracking |
| ✓ | ✓ | APTS02 | Transit Fixed-Route Operations |
| ✓ | ✓ | APTS03 | Demand Response Transit Operations |
| ✓ | ✓ | APTS04 | Transit Fare Collection Management |
| ✓ | ✓ | APTS05 | Transit Security |
| ✓ | ✓ | APTS06 | Transit Fleet Management |
| ✓ | ✓ | APTS07 | Multi-modal Coordination |
| ✓ | ✓ | APTS08 | Transit Traveler Information |
| ✓ | | APTS09 | Transit Signal Priority |
| ✓ | | 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 |

| Recommended for 2010 Update | Selected in 2003 Version | Market Package | |
|---|--------------------------|----------------|--|
| Traveler Information Service Area | | | |
| ✓ | ✓ | ATIS01 | Broadcast Traveler Information |
| ✓ | ✓ | 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 | | | |
| ✓ | ✓ | AD1 | ITS Data Mart |
| | | AD2 | ITS Data Warehouse |
| ✓ | | AD3 | ITS Virtual Data Warehouse |

CHATTANOOGA REGIONAL ITS ARCHITECTURE UPDATE

DEPLOYMENT PLAN PROJECT INPUT

Instructions for completing project input table:

- Please fill in the following categories to the best of your knowledge
 - Project – project name
 - Description – brief description of the project components and goals
 - Responsible Agency – identify agency responsible for implementation, operations, and maintenance
 - Opinion of Probable Cost – please provide any input you have on project costs
 - Funding Identified – indicate whether or not funding has been identified
- If you are not able to complete a category it is fine to leave it blank
- One blank page has been included, please feel free to make additional copies as needed
- An example project has been included below
- When complete please fax to Tom Fowler at 512-418-1791
- Project recommendations can also be e-mailed to Tom at thomas.fowler@kimley-horn.com

Example:

| Project | Description | Responsible Agency | Opinion of Probable Cost | Funding Identified (Yes or No) |
|---|--|--------------------|---|--------------------------------|
| City of _____ Emergency Vehicle Signal Preemption Expansion | Implement emergency vehicle signal preemption on additional traffic signals in the City of _____ and extend the capability beyond Fire vehicles to include EMS vehicles as well. | City of _____ | \$6,000/intersection \$1,500/vehicle | No |

Please contact Tom Fowler or John Benditz with any questions:

Tom Fowler
thomas.fowler@kimley-horn.com
 512-418-4504

John Benditz
john.benditz@kimley-horn.com
 865-980-6477

Please complete and return by January 15, 2010

Agency: _____

Name of person completing this form: _____

Contact Information (phone and/or e-mail address): _____

| Project | Description | Responsible Agency | Opinion of Probable Cost | Funding Identified (Yes or No) |
|----------------|--------------------|---------------------------|---------------------------------|---------------------------------------|
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