CapCom Initiative

Volpe Center Recommendations

December 21, 2005

Transportation Planning Board

Agenda

- Background

- Findings

- Business Functions

- Recommendations

- Next Steps

Background

- In October, TPB amended the CLRP/TIP to include the CapCom regional transportation coordination program
  - Grant funding in SAFETEA-LU from Congressman Moran
  - Match provided equally by DDOT, MDOT, and VDOT

- Those agencies plus WMATA working as a Steering Committee to address the program

- Through DDOT, engaged the USDOT Volpe Center research staff to develop a strategic plan, business process, functionality, and initial work plan for CapCom
  - Four-month study now drawing to a close

Accomplished to Date

- Site visits of current TMC Operations with all partner agencies

- Convened TMC key operations personnel
  - 3 four-hour work sessions in November
  - Developed basis for Concept of Operation for CapCom: the way regional transportation incident operations should fit together
  - Helped achieve buy-in of key staff without whom a regional program cannot succeed

- Developed draft Mission Needs Statement and Concept of Operations

Findings

- Assessment of best practices revealed more could be done on a regional basis:
  - Regional incidents done on an ad hoc basis
  - Effective institutional arrangements missing for regional standard operating procedures
  - Staff-to-staff contact to build trust and credibility
  - Data and communications links are missing
  - More travel forecast information for the public
  - Joint planning and operations for known special events, weather-related events, and other incident scenarios
- No regional point-person for program management
- A business problem, not a technical problem

Mission Needs Statement and Concept of Operations

- Drafted by Volpe in conjunction with the Steering Committee to guide CapCom development

- Mission Needs Statement
  - Defines the explicit role for CapCom
  - High-level overview of regional incident management capabilities, including current capabilities, current shortfalls and their impacts, as well as future capabilities
  - Represents the shared understanding of the program partners (VDOT, MDOT, DDOT, WMATA, and COG/TPB)

- Concept of Operations
  - Defines CapCom's key features and functional capabilities
  - Defines organizational alternatives and recommends a CapCom Regional Incident Coordination Program be incorporated into current TMC operations with a CapCom Program Manager

CapCom Business Functions

Regional Transportation Coordination Program

Regional Planning

Establish MOUs

Plan SOPs

Define Pre-planned Responses
- Planned Event
- Emergency/1st Response
- Day-to-day Incident
- Construction

Document Lessons Learned

Conduct Training & Exercises

Act as Regional Liaison

Forecast Incident Effects

Examine Regional Incident Performance

Regional Incident Coordination

Compile Data

Identify Regional Incident

Monitor Secondary Impacts

Collaborate with Transportation Agencies

Communicate with 3rd Parties

Distribute Data

Regional Information Systems

Interface Agency and Regional Systems

Build and Operate Regional Information System

Provide Traveler Information

Compile Weather Information

Manage GIS Information

Archive Data

Maintain Repository of Transportation and Communication Systems

Coordinate with Regional ITS Architecture

CapCom Finance & Administration

Regional Planning

Regional Planning

Establish MOUs

Plan SOPs

Define Pre-planned Responses

Planned Event

Emergency/1st Response

Day-to-day Incident

Construction

Document Lessons Learned
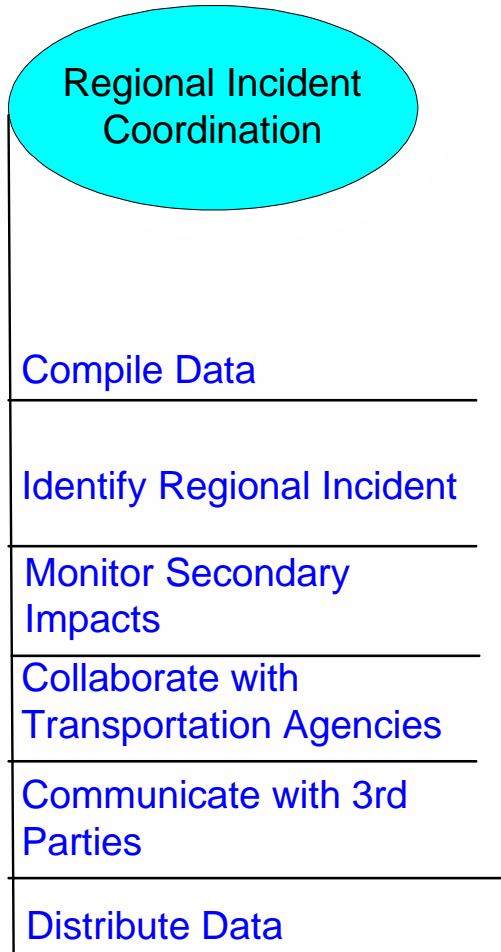
Conduct Training & Exercises

Act as Regional Liaison

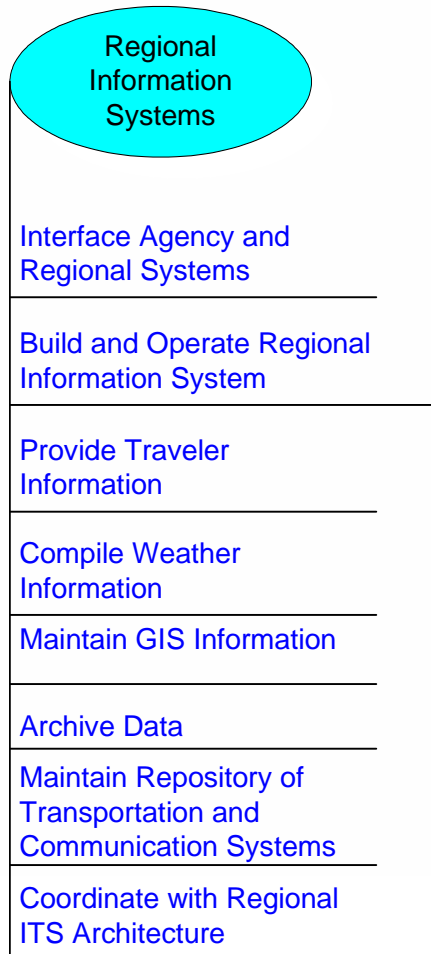Forecast Incident Effects

Examine Regional Incident Performance

- Establishes agreements and business practices among the partners for regional incidents

- Defines pre-planned responses depending on the incident

- Develop forecasting capability to determine primary and secondary impacts of an incident

- Continual updates and refinements based on training and lessons learned

- Measuring incident management performance

Regional Incident Coordination

Compile Data

Identify Regional Incident

Monitor Secondary Impacts

Collaborate with Transportation Agencies

Communicate with 3rd Parties

Distribute Data

- CapCom will be integrated with the day-to day operations of the Transportation Management Centers

- Importance of monitoring and responding to the secondary transportation impacts of regional incidents

- Providing the one message for the media and traveling public

Regional Information Systems

Regional Information Systems

Interface Agency and Regional Systems

Build and Operate Regional Information System

Provide Traveler Information

Compile Weather Information

Maintain GIS Information

Archive Data

Maintain Repository of Transportation and Communication Systems

Coordinate with Regional ITS Architecture

- CapCom Information Systems functions will implement a regional system to compile, fuse, tailor and distribute regional transportation data (RITIS)

- CapCom will coordinate system development with the regional ITS architecture and individual agency IT development

Recommendations Based on the Volpe Study

- Form CapCom as a regional program that is integrated within existing partner agency TMC's and:
  - **Use the COG/TPB structure to contract for a dedicated Program Manager**
    - Works closely with the partner agencies to identify best ways to implement CapCom consistent with the Concept of Operations
    - Oversees the development of an optimal organization structure, technical systems and regional standard operating procedures
    - Enables regional transportation coordination and accurate and timely information dissemination during incidents
    - Ensures regional accountability

- Continue agency-by-agency efforts to better regional coordination through regional standard operation procedures

Next Steps

- By the next report to the TPB on February 15:
  - Selection of a CapCom Program Manager
    - RFQ to be issued through COG/TPB
    - Proposals to be received and reviewed
    - Program Manager contractor to be selected

  - Finalization of Volpe report
    - Mission Needs Statement
    - Concept of Operations
    - Initial work plan for available funds