2015 ITE Western District Annual Meeting

Lisa Burgess, PMP
Events on the I-15 Corridor

January 2010, Cajon Pass, CA

January 2015, Virgin River Gorge Bridge Construction, Arizona

January 2015, near Beaver, Utah

May 2013, Memorial Day Weekend near Las Vegas

September, 2014 Near Moapa, NV
Multi-State Corridor Operations and Management (MCOM) Program

- Nevada DOT and I-15 Alliance applied for and received federal funds for the I-15 Dynamic Mobility Project (2012)
  - One of 7 multi-state corridor groups
- I-80 also a recipient in 2013
  - Are looking to leverage some synergies between the 2 corridors
  - Some common stakeholders and systems
Project Goals

- Improve how states can coordinate and manage events on I-15 – in real time
  - Operations and management
  - Information collection, sharing and dissemination

- Develop a solution that can support I-15 agencies to collectively operate and manage the corridor
  - Must be compatible with all existing agency systems
  - Must address the needs of those using it
Project Goals

- Make corridor-wide information available to travelers
  - Leverage current agency 511/traveler information systems
  - Look at options for providing information to travelers across state lines

- Another goal is to coordinate with the I-80 Winter Operations coalition
  - Some common needs, systems
  - I-80 might want to leverage what I-15 develops
Key Stakeholders

- **Target Audiences:**
  - TMC/TOC operations and management
  - Operations and Maintenance
  - State and local PIOs/traveler information dissemination
  - Planning

- **Industries that are key users of I-15**
  - Freight/Trucking Associations
  - Tourism
Phase 1

Corridor-wide Inventory
- Systems
- Devices
- Processes/Procedures

Topic-Specific Webinars
1. Weather
2. Operations, Work Zones and Emergency Closures

Online Survey
- Preferences/Priorities
- Specific needs

Needs and Goals Memorandum and Webinar

In-person Meeting with select representatives

Operational Concept
Gaps and Needs

- Field Infrastructure
- Data Collection and Sharing
  - Data sharing
  - Points of Contact at other agencies
- Coordinating Systems across State Lines
- Weather Information and Response to Weather Impacts
- Traveler Information
  - Dissemination methods
  - Communication with freight
- Freight
  - Parking
  - Detours/Re-routing
Initial Operational Goals

1. Elevate the corridor situational awareness
2. Promote more proactive and coordinated responses
3. Interoperability with current systems
4. Support consistent and reliable corridor information to multi-state travelers
5. Demonstrate value of improved coordination as a result of the project
Operational Concepts

- How can we...
  - Link up agencies along the corridor
  - Share information in a meaningful way
  - Enhance, not disrupt, current operations
  - Expand information sharing to other partners
  - Improve information for travelers
Solution Concept

Automated Inputs
Real time information (camera images, weather, incidents, congestion, etc.)

Manual Inputs
Static information (jurisdictional information, roles/responsibilities, planned events)

Automated Inputs
Real time information (camera images, weather, incidents, congestion, etc.)

Customizable User Settings
Profile and contact information; areas of interest; alert types/functions

Law Enforcement/Public Safety Data
511, ATMS Websites
Non-DOT Data Sources (Traffic/Weather)
DOT Servers

Central Database (Filter, Query, Archive, Disseminate)

Secure I-15 Website/Dashboard

Information to

Maintenance Staff
TOC/TMC
Law Enforcement
Regional/District Offices

Email/Text Alerts
Relevant Devices
Master Calendar
Contacts
Scrolling Activity Log
Chat Function
Other Considerations

Institutional Framework and Operational Responsibilities

– Changes to day-to-day functions of staff
– Procedural and system modifications
– Training
– ‘Solution’ Ownership
– Maintaining the Solution
– Data Ownership and Sharing
– Funding
Next Steps

- **Phase 2!**
  - Detailed System Requirements
    - The system “shall”.....
    - Trace back to needs
  - System Design
  - Testing
  - Freight coordination
Project Timeline

- 2 phases over 24-months

Phase 1
(October 2014 – June 2015)
- Inventory
- Needs and Goals Assessment
- Operational Concept

Phase 2
(July 2015 – October 2016)
- Design Development, and Testing
Thank You!

Lisa Burgess, PMP
Kimley-Horn and Associates
Lisa.Burgess@kimley-horn.com