Corridor-Based Work Zone Performance Measures: I-35, Central Texas

Work Zone Performance Management Peer Exchange Workshop
May 8, 2013  ●  Atlanta, Georgia
I-35 Construction Corridor

- 15 sections
- 5 years
- 90+ miles
- Up to 11 projects active at one time
- 55k - 110k ADT
- ~ 66% through traffic
- > 75% trucks at night
Vision for Traveler Information During Construction

- Provide information on current and anticipated travel conditions across multiple construction zones to assist:
  - Local residents
  - Regional travelers
  - Long-distance travelers

- Focus of system is on the construction-related impacts
Key Construction-Related Traffic Issues

- Multiple contractors working independently
- Nighttime lane closures
  - Some create queues, some do not
  - Potential for several in same direction of travel per night
- Alternative routes are limited (Waco, Temple, Belton)
I-35 Data Sources

- Corridor lane closure database
- Traffic volumes
- Bluetooth travel time monitoring
- End-of-queue warning systems
I-35 Corridor Measures

- Types of lane closures (full versus single lane)
- Advance notification times for lane closures
- Queues
  - % of lane closures causing queues
  - Maximum lengths
- Delays
Lane Closure Types and Notification
I-35 Closure Impacts - Queues

Percent of Lane Closures with Maximum Predicted Queue Length

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I-35 Corridor Impacts - Crashes

- Project and corridor-level changes
- Tracked in near real-time
- Associate back to key work activities (i.e., nighttime freeway lane closures)
Discussion Questions

- What other corridor-level measures would your agency be interested in?

- What risks, if any, do you anticipate with possible misuse of these types of measures (from the media, political leaders, etc.)?