I-35 SMART WORK ZONE

Highways for Life Grant Demo Project
Construction of a new interchange on I-35
Location: SW of Kansas City, KS
Smart Work Zone
  - Delay Information
  - Queue Detection and Advanced Warning
  - Variable Speed Limits
  - Cameras for Visual Confirmation
  - Public Website
Retain Equipment
MIST
Hits the road in two weeks
HfL Funding

- Applied May 2011
  - Improve safety & reduce congestion
  - Crash rates
  - Congestion
  - User satisfaction
- Notified August 2011, specs complete and funding allocated September 2011
- FAST turn around, FAST decisions
  - ITS project tied to construction project
The main purpose
- Kansas data and use
- Lane Closure Guide
- Incident detection

The Big Picture re: SWZ Data
- Archive collected data
- Searchable in conjunction with Kansas data
- Managed by someone else 😊
Challenges

- Working with the low bidding contractor’s low bidding vendor
  - Read the specs???
  - Actively engaged???
  - Verified experience???
- Details…Details…Details
  - Time constraints
  - VSL algorithms
- Permanent ITS software after the project - MIST
- Logistics after the project
Rewards

- Vendor’s GREAT programming team and behind-the-scenes product
- Get to keep the equipment
- Work Zone ITS program in Kansas
  - Jump Start, maybe by 10 years
  - Equipment – each on its own portable trailer
    - 18 PCMS
    - 6 Cameras
    - 8 Variable Speed Limit Signs
    - 21 Wavetronix Traffic Sensors
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<th>Type</th>
<th>Status</th>
<th>Name</th>
<th>Value</th>
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<tbody>
<tr>
<td>CCTV 03</td>
<td></td>
<td>I-35 NE of Homestead (CCTV 03)</td>
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<td>CCTV 05</td>
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<td>I-35 NW of Gardner Rd (CCTV 05)</td>
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<td>CCTV 01</td>
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<td>I-35 NW of Sunflower (CCTV 01)</td>
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<td>CCTV 04</td>
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<td>I-35 SE of Spoon Creek Rd (CCTV 02)</td>
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<td>I-35 SW of W 175th-Hwy 56 (CCTV 06)</td>
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<tr>
<td>PCMS 01</td>
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<td>NB I-35 Just west of Vermont Terrace Bridge</td>
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<td>PCMS 02</td>
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<td>SB K-33.5 of E 10th St</td>
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