New Mexico DPS MTPD Smart Roadside Program
AAMVA Region IV
Albuquerque, NM
Thursday, June 21st, 2012
• Smart Roadside Inspection Systems
  – Roadside tools to improve the efficiency and effectiveness of CMV enforcement operations using electronic screening.
  – Imaging systems are designed to augment traditional visual screening methods at the roadside to ‘see what the inspector cannot see’ and to provide timely critical information to frontline inspection operators.
  – Smart Roadside represents a significant opportunity to meet the challenges of constrained enforcement resources and an ever-increasing volume of commercial vehicle traffic by maximizing the scope of exception-based enforcement techniques
Automatically identify license plate of passing CMVs
Next generation camera systems include:

- High-definition resolution
- Customize OCR engines
- CMV-centric design attributes
- Utilize color / infrared sensor technology
- Mainline speed performance
NM SMART ROADSIDE PROGRAM Automated USDOT Number Recognition System

- Automatically USDOT #s of passing CMVs
- Next generation camera systems include:
  - High-definition resolution
  - Driver-safe lighting systems
  - Dynamic imaging controls for 24/7 operation
  - Hi-speed capture up to 65 mph
NM SMART ROADSIDE PROGRAM
Bringing Intelligence to the roadside

- Ties roadside data to back-end information networks
  - SAFER
  - IRP / IFTA
  - UCR
  - ePermitting
  - Tax and Registration
  - Insurance
  - NCIC

- Designed with flexible / extensible architecture

- Provides a cohesive, centrally managed enforcement program

- Meets both safety and security mandates
NM SMART ROADSIDE PROGRAM
Automated Electronic Screening System
• Provides automated alerts to roadside inspectors for high risk vehicles
• Includes user-definable screening / filtering rules

• Allows both local/ remote access
• Provides modular site by site configuration to accommodate existing infrastructure
NM SMART ROADSIDE PROGRAM
Automated Electronic Screening System
## NM SMART ROADSIDE PROGRAM
Automated Electronic Screening System

### Vehicle Live Summary

<table>
<thead>
<tr>
<th>Location</th>
<th>Plates Detected</th>
<th>Company Name</th>
<th>Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>San Jon #1</td>
<td>No Plate Detected</td>
<td>FISHER SAND &amp; GRAVEL COMPANY</td>
<td>Issue Suggested</td>
</tr>
<tr>
<td>San Jon</td>
<td>CH8044</td>
<td>US DOT 575041</td>
<td>Temporary Permit Issue - Carrier</td>
</tr>
<tr>
<td>San Jon</td>
<td>USFL R6552A</td>
<td>WESTERN STAR TRANSPORTATION LLC</td>
<td>Temporary Permit Issue - Vehicle</td>
</tr>
<tr>
<td>San Jon</td>
<td>P764517</td>
<td>US DOT 327149</td>
<td>Temporary Permit Issue - Vehicle</td>
</tr>
<tr>
<td>San Jon</td>
<td>RA48876</td>
<td>No DOT # Detected</td>
<td>Temporary Permit Issue - Vehicle</td>
</tr>
</tbody>
</table>
## NM SMART ROADSIDE PROGRAM
Automated Electronic Screening System

### Vehicle Live Summary

<table>
<thead>
<tr>
<th>Overview</th>
<th>Vehicle</th>
<th>Plate Number</th>
<th>USDOT Number</th>
<th>Rear Plate Number</th>
<th>Alerts at 11:39:36</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Anthony</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>11:57:03</td>
<td>Anthony #1</td>
<td>USMO A52857</td>
<td>1490474</td>
<td>WESTERN DAIRY TRANSPORT LLC</td>
<td></td>
</tr>
<tr>
<td>11:56:46</td>
<td>Anthony #1</td>
<td>USTX RD8Y88</td>
<td>272306</td>
<td>WILLARD A SELLE</td>
<td></td>
</tr>
<tr>
<td>11:56:25</td>
<td>Anthony #1</td>
<td>USIA SA0082</td>
<td>224842</td>
<td>JOE ZAPUTIL TRUCKING INC</td>
<td></td>
</tr>
<tr>
<td>11:55:52</td>
<td>Anthony #1</td>
<td>USIN 1102003</td>
<td>63391</td>
<td>GREENWOOD MOTOR LINES INC</td>
<td></td>
</tr>
</tbody>
</table>
## NM SMART ROADSIDE PROGRAM
Automated Electronic Screening System

### Vehicle Live Summary

<table>
<thead>
<tr>
<th>Location</th>
<th>Time</th>
<th>License Plate</th>
<th>Company Name</th>
<th>DOT Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Gallup</td>
<td>17:21:00</td>
<td>USMO 82AP7R</td>
<td>CON-WAY TRUCKLOAD INC</td>
<td>70289</td>
</tr>
<tr>
<td>Gallup</td>
<td>17:20:18</td>
<td>USOK 2JL243</td>
<td>Sapulpa, OK, US DOT 0273897</td>
<td>27389</td>
</tr>
<tr>
<td>Gallup</td>
<td>17:19:20</td>
<td>70277G</td>
<td>HAR TRANSPORTATION INC</td>
<td>1928491</td>
</tr>
<tr>
<td>Gallup</td>
<td>17:18:55</td>
<td>USIN 115401</td>
<td>S D &amp; S TRUCKING LLC</td>
<td>920811</td>
</tr>
<tr>
<td>Gallup</td>
<td>17:18:48</td>
<td>USMO 70AN4L</td>
<td>No DOT # Detected</td>
<td></td>
</tr>
</tbody>
</table>

**Notes:**
- Safer - ISS between 75 & 94 - Inspection Suggested
- $ Tax - Temporary Permit Issue - Vehicle
- Safer - ISS greater than 95 - Inspection Required
- $ Tax - Temporary Permit Issued - Vehicles

### Navigation Menu
- Search
- Reports
- Dashboard
- Display
- Users
- Status
- System
- DBs
- Equipment
- Screening
NM SMART ROADSIDE PROGRAM
Remote / Virtual Solution
NM SMART ROADSIDE PROGRAM
Mobile Trailer Solution
NM SMART ROADSIDE PROGRAM
Statewide Deployments

- Gallup EB
- Gallup WB
- Raton NB
- Raton SB
- Lordsburg Exit 20
- Lordsburg Exit 24
- Lordsburg EB
- Lordsburg WB
- Anthony WB
- Anthony EB
- San Jon WB
- San Jon POE
- San Jon Hwy 392

(9) SRIS Fixed Site
(4) SRIS Remote Site
(2) SRIS Mobile Trailer / Van

SRIS Site In Progress
• Employ technology as a tool to leverage existing enforcement resources

• Automatically target hi-risk vehicles:
  ✓ “real time” safety information on vehicles and carriers
  ✓ Pass/Fail for WDT compliance
  ✓ Pass/Fail for registration requirements with the International Registration Plan (IRP), International Fuel Tax Agreement (IFTA) and the Unified Carrier Registration (UCR)

• Focus resources without having to manage or administrate additional programs

• Roadside imaging systems do not interfere in the flow of commerce

• Objective screening rules provide a level playing field for industry

• Can be deployed in multiple locations and configurations with deployment options including fixed sites, mobile systems and virtual inspection stations
NM SMART ROADSIDE PROGRAM
ROI Measures

Mobility and Reliability
✓ Improve freight delivery reliability as CMV travel times are reduced.

Economic
✓ Elimination of needless CVO inspections
✓ Reduced fuel use and associated emissions

Environmental
✓ Reduced emissions air pollutants and greenhouse gases (CO, NOx and HC)

Others
✓ Improved quantity and quality of data reporting from existing infrastructure
✓ High profile safety program for law enforcement agencies.
✓ Increased general public awareness of enforcement efforts.
✓ Increased exposure to new uses of known technology.
✓ Increased inspector satisfaction.
NM SMART ROADSIDE PROGRAM
The (very) Near Future

NM MTPD DPS
Strategic Approach to Roadway Safety

Creating a unified enforcement operations and management platform.

First steps

1. Data Collection (currently leader Nationwide)
2. Data Integration (Screening and Violations Data Analysis)

The Future
Tie electronic screening performance to tangible highway safety improvements including Crash Prevention / Fatality Reduction
Recently recognized for Revolutionizing Highway Safety:

NM SMART ROADSIDE PROGRAM
MTPD Awards

2010 Best of ITS Awards
Best Innovative Practice Winner

2011 National Roadway Safety Awards
Program Planning, Development, and Evaluation Winner