



U.S. Department of Transportation
Federal Motor Carrier Safety Administration

Driver and Vehicle Safety Innovation

Future Technology Initiatives for Roadside Inspections

2014 Transportation Research Board 93rd Annual Meeting
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Analysis, Research, and Technology Forum
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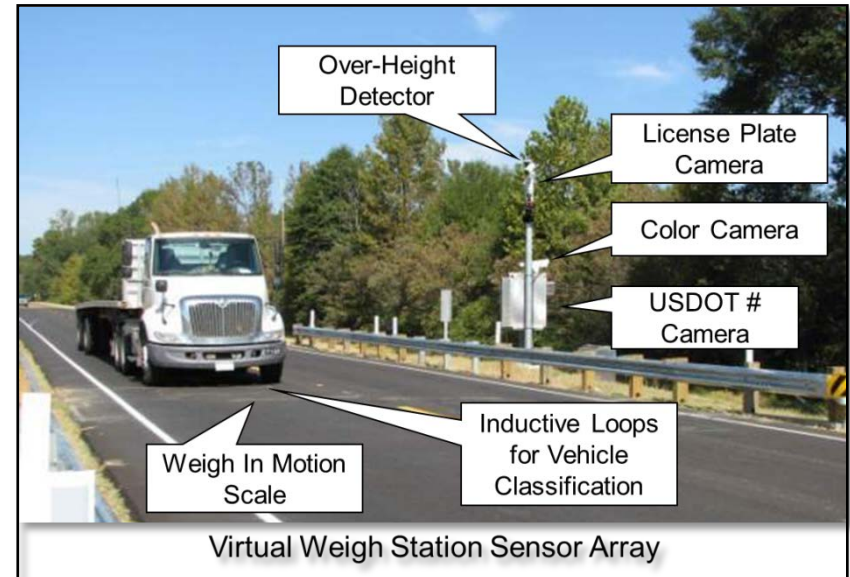
Office of Research and Information Technology

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Strategic Goal Related to Roadside Technologies

Focus Area:

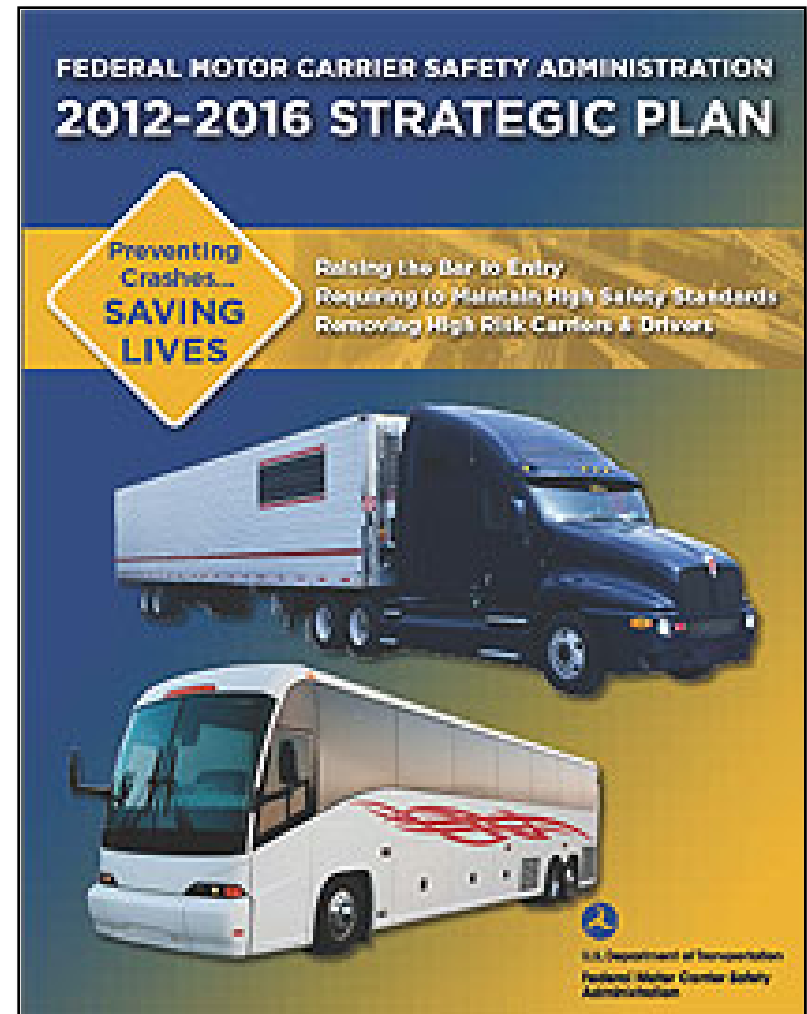
Comprehensive Data Utilization
and Leveraging Technology

Goal:

Risk & Safety Research

Strategy:

Identify, test, and deploy smart
roadside technologies in
partnership with Federal/State
safety agencies and technology
providers.



Strategic Goal Related to Roadside Technologies

Outcomes:

- Improved access to high quality safety data collected and disseminated through a single commercial motor vehicle (CMV) transportation safety system (i.e., the FMCSA Portal).
- Increased deployment of electronic data exchange and smart roadside technologies.

Stakeholder Engagement—Critical to Implementation

Entity	Collaboration Objectives
State Enforcement	- Enhanced data sharing between FMCSA and States - Maximum flexibility for technology solutions
Motor Carrier Industry	- Open data exchange standards between motor carriers and State/FMCSA systems - Potentially new performance data streams to complement safety inspection activities
Technology Providers	- Performance-based standards to facilitate flexible, cost-efficient State roadside technology solutions - Opportunities to exchange information regarding Agency needs and provider capabilities

Key Technology Initiatives

- **Research:**

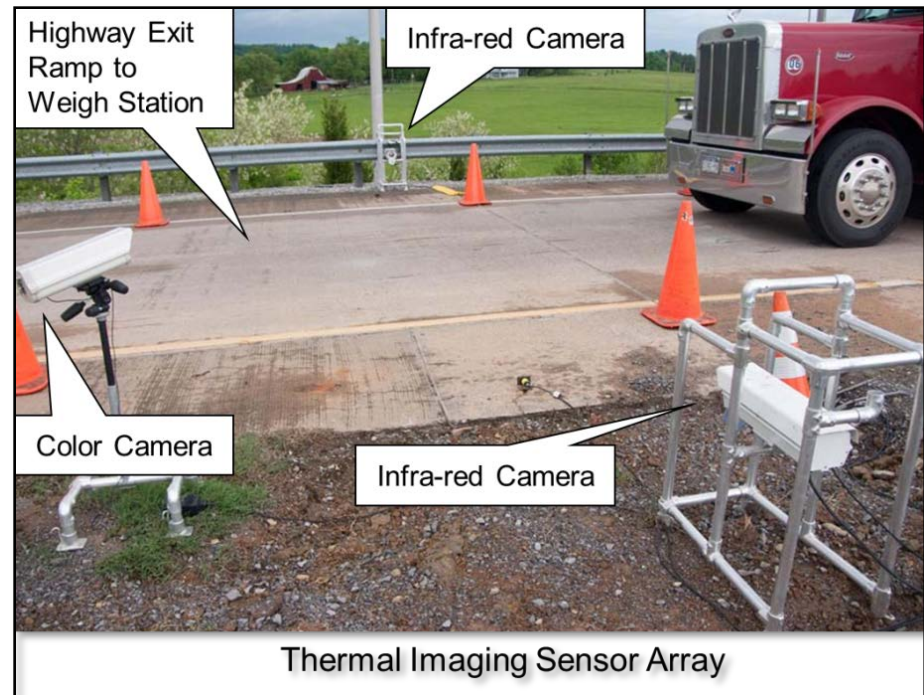
- SmartPark and International Border Crossing E-Screening (IBCES) field tests.
- New inspection tools (e.g., handheld ABS compliance check).
- Wireless Roadside Inspection (WRI) Model field test.

- **Development:**

- Unified Registration System (URS).
- Agency IT systems for Electronic Logging Device (ELD) regulation.

Key Technology Initiatives, continued...

- **Deployment:**
 - Commercial Vehicle Information Systems and Networks (CVISN) grants.
 - Work zone/congestion warning systems for CMVs.
 - Enhanced e-screening (virtual weigh stations, thermal imaging systems).
 - Electronic permits (e.g., size and weight, hazardous materials).



Contact Information

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