Driver and Vehicle Safety Innovation
Future Technology Initiatives for Roadside Inspections

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Contents

- Strategic Goal Related to Roadside Technologies
- Stakeholder Engagement
- Key Technology Initiatives
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

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<th>Entity</th>
<th>Collaboration Objectives</th>
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| **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).
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