



*UNITED STATES*  
**DEPARTMENT OF TRANSPORTATION**

# **Smart Roadside Initiative (SRI) Overview**

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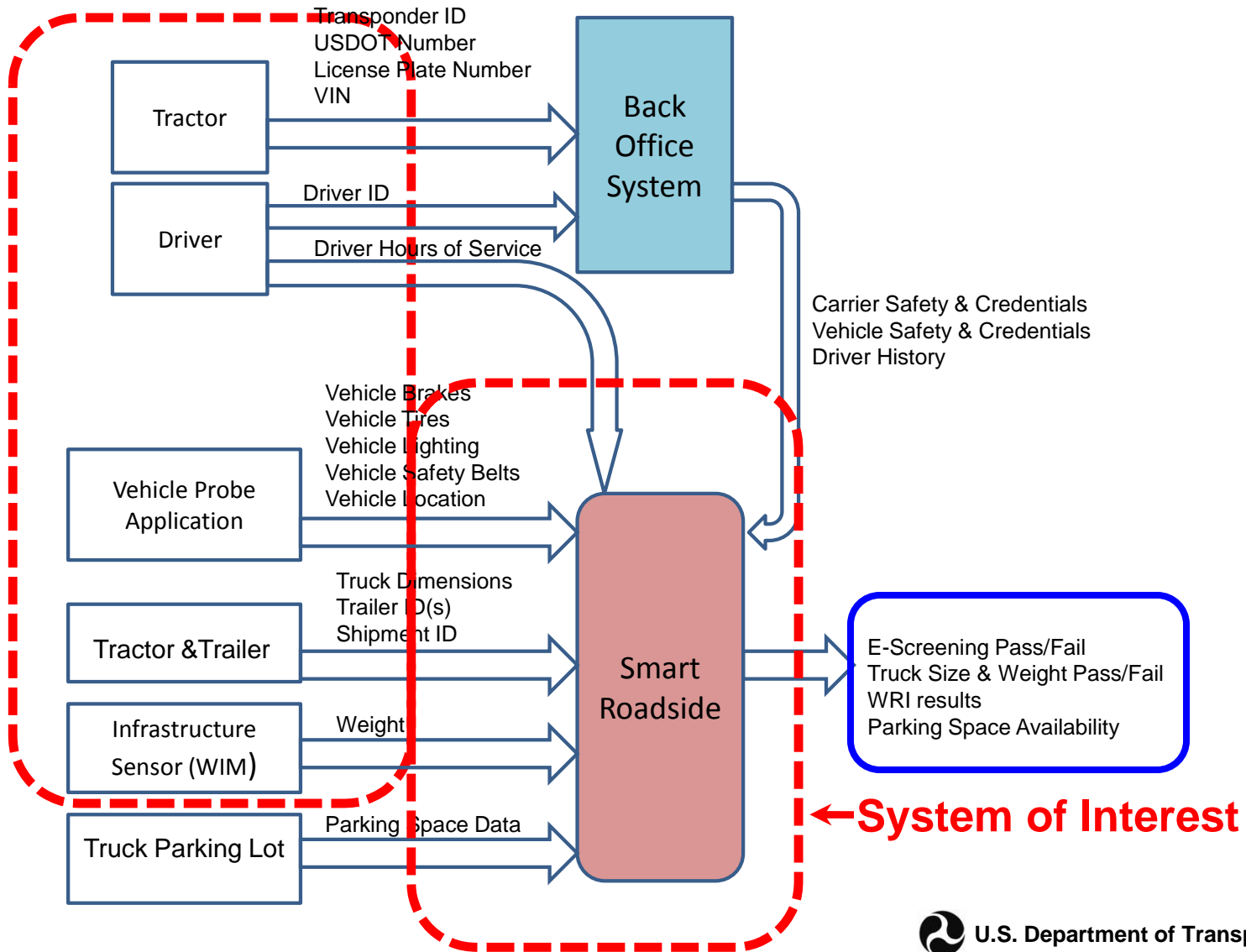
**Connected Vehicle Truck Safety Meeting**  
**Chicago, IL**  
**August 4, 2011**

# What is the Smart Roadside Initiative?



*Using interoperable technology and improved data sharing to improve safety, security, and mobility on the nation's freight transportation system*

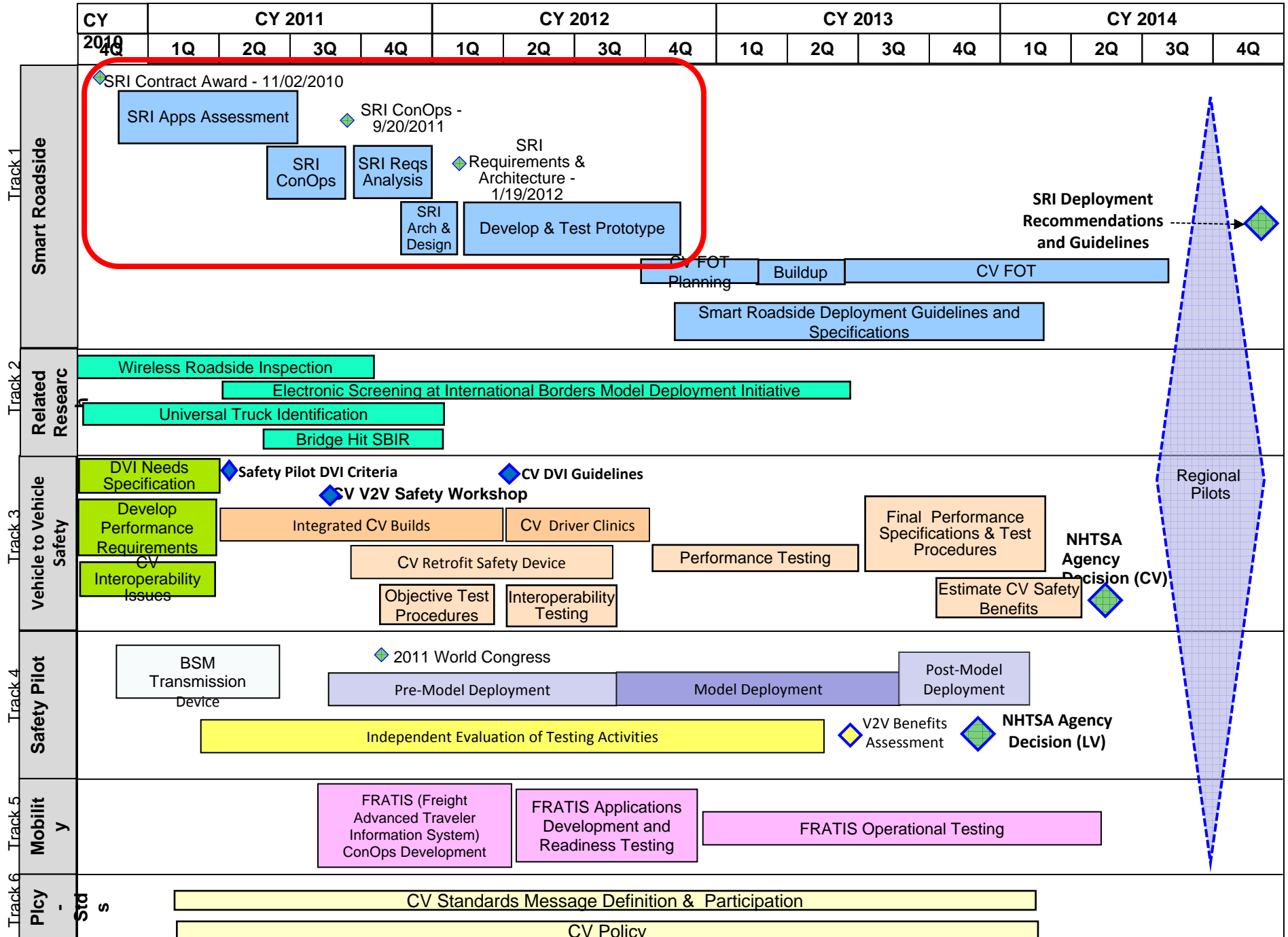
# What is the Smart Roadside Initiative



# How are Applications Deployed?

- Commercial Vehicle Information Systems and Networks (CVISN) Core Requirements (SAFETEA-LU, Section 4126)
  - Exchange of Safety Information
  - Electronic Screening
  - Electronic Credentialing
- Expanded CVISN defines Smart Roadside
  - Enhanced exchange of information
  - Virtual Weigh Stations
  - License plate/DOT# readers

# USDOT Commercial Vehicle (CV) ITS Research Plan for Wireless Connectivity – Final 7-27-11



# Current Phase

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- Contract Awarded to:
  - Look at existing equipment/research
  - Develop a concept of operations
  - Prototype development/testing
  - Facilitate stakeholder outreach

# Application Analysis and Assessment of

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## Existing Equipment

- Identify projects and systems that will contribute to the SRI framework.
- Activities:
  - Assessment of state CVISN and IT deployments
  - Assessment of existing FMCSA roadside IT systems

## Research Projects

- Literature Review – current and historical studies, programs, field tests
- Definition of relationship between SRI and current vehicle to infrastructure research being conducted by DOT

# Concept of Operations

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- Identifying Entities on the Road
- Sharing Information – establishing a common framework
- Enhanced Electronic Screening – attended and unattended
- Integrating Public-and Private-Sector Data
- Streamlined/Accelerated Inspections – Wireless Roadside Inspections and traditional inspections
- Performance-Based Standards and an Architecture

# SRI Prototype

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- System Requirements
- Architecture
- Component Level Design
- Prototype Development and Test
- Build and Install Prototype
- Prototype Field Testing
- Documentation

# Next Steps/Goals

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- Strategic goals for CVISN/SRI by 2016
  - All States Core CVISN compliant
  - 50% of States deploying Expanded CVISN applications

# Stakeholder Outreach

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- Critical to involve CMV community throughout research
  - Trucking conferences
  - Webinars
  - Workshops
- Web site: [SmartRoadsideInitiative.com](http://SmartRoadsideInitiative.com)

# Contact Information

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