FMCSA Safety and Security Accomplishments

Office of Research and Analysis

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U.S. Department of Transportation

Federal Motor Carrier Safety Administration

Technology Division Highlights

Jeff Secrist

Chief, Technology Division

U.S. Department of Transportation

Federal Motor Carrier Safety Administration

Driver Related Projects

◆ Employer Notification Service

- ■ Burden to discover driver history is on motor carriers
- ■ Design and prototype national ENS System
- ■ Pilot test in California and Colorado (July 2007)

◆ Commercial Drivers' License 3rd Party Testing Anti-Fraud

- ■ Goal – reduce possession of fraudulent CDL
- ■ Develop IT-based strategies to monitor testing
- ■ Pilot test software (Summer 2006); report (Fall 2006)

Vehicle Related Projects

◆ Untethered Trailer Tracking System

   ■ Improve motor carrier productivity and enhance the security of trailers

   ■ Tested an untethered trailer tracking and control system that provided trailer identification, location, and unscheduled movement notification with door and cargo status alerts

   ■ Project completed (October 2005)

◆ Expanded Satellite–Based Mobile Communications

   ■ Monitor hazardous materials and high-value cargo

   ■ Test a wireless satellite-based communications tracking system

   ■ Complete pilot test (January 2006); final report this summer

Vehicle Related Projects (cont.)

◆ Enhanced Rear Signaling

  ■ Rear-end crashes are one of the most frequent accident configurations in heavy vehicles

  ■ Countermeasures will be evaluated by installing them on a test truck and observing driver behavior

  ■ Final report (September 2006)

Technology Demonstration Projects

◆ SmartPark
- Identify technology to convey real-time parking information
- Demonstrate a financial approach for system operation
- Phase I complete; Phase II award (Spring 2006)

◆ Real-world Test Bed to Evaluate New Safety Technologies
- Inspection Selection System with Driver data (completed)
- Performance-Based Brake Testers (Summer 2006)
- Hazardous Materials Truck Disabling Technology
- Partners

Technology Demonstration Projects (cont.)

◆ Motor Carrier Efficiency Study (Section 5503)

■ Evaluate how wireless technology can improve safety and efficiency of motor carrier freight transportation

■ Four-year effort, $1.25M/yr

- Freight Study
- Field operational tests
- Independent evaluation
- Program Elements

■ Industry day capabilities meeting – February 9, 2006

Commercial Vehicle Information Systems and Networks

◆ SAFETEA-LU provides FMCSA $25 million for FY 2006 – FY 2009

◆ Deploy "Core" capabilities nationwide

- States must have accepted CVISN Program Plan
- Receive no more than $2.5 million

◆ Define, develop, and implement "Expanded" capabilities

- Certified by FMCSA as completing Core deployment
- Receive no more than $1 million
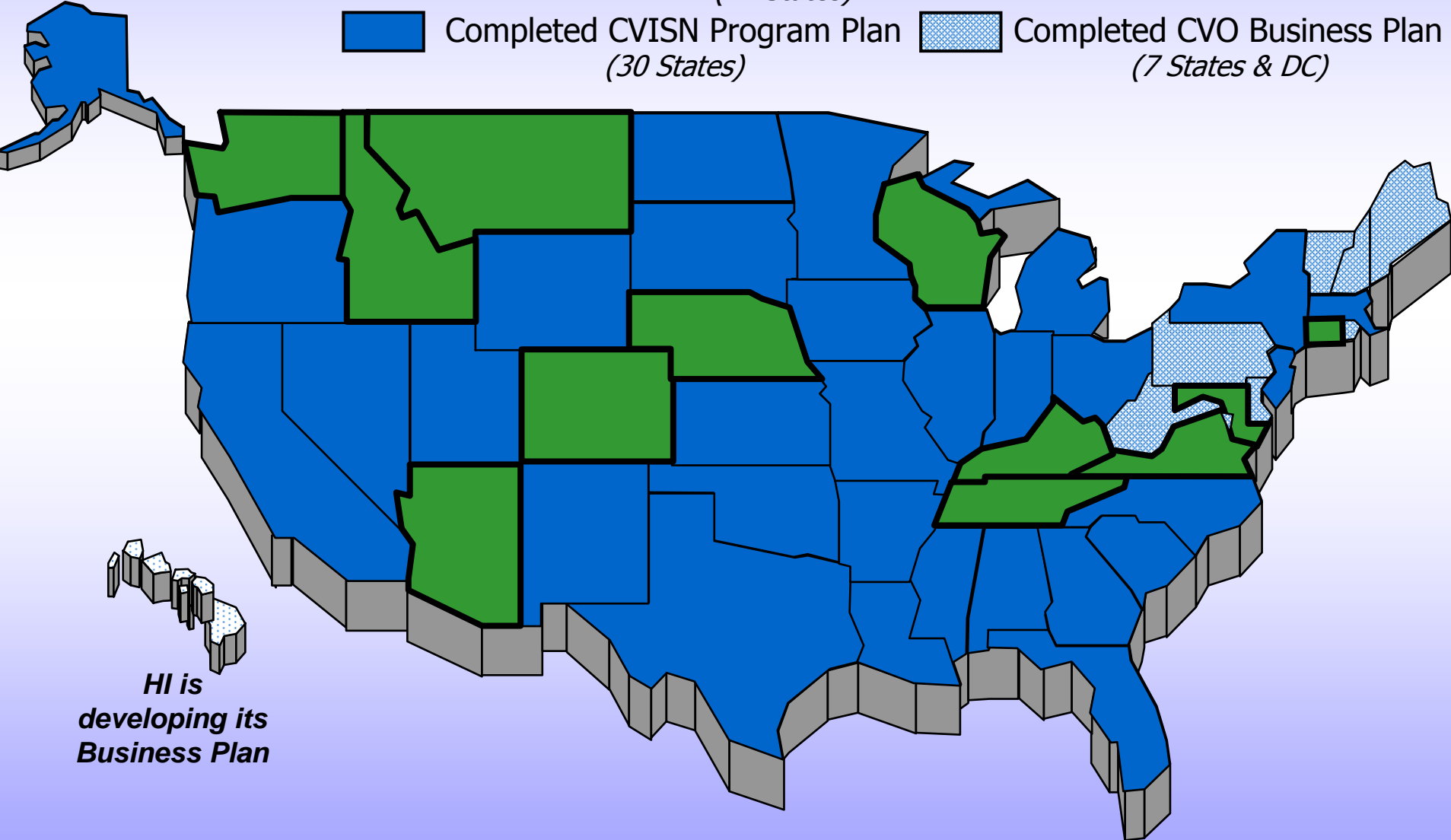
Status of States in CVISN Deployment

FMCSA Certified – Completed Core Deployment
(12 States)

Completed CVISN Program Plan
(30 States)

Completed CVO Business Plan
(7 States & DC)

HI is developing its Business Plan

Future Projects

◆ Advance FMCSA's safety mission

◆ Adopt, test, and deploy technologies and best practices

◆ Focus on driver, commercial vehicle, and motor carrier operations

◆ Contribute to a safe and secure commercial transportation system