

# **Working with Technology to Improve Freight Movement in the DelMarVa Peninsula**

Presented by

**Gregory Oliver**

**DelMarVa Freight Summit**

**June 20, 2012**



# Commercial Vehicle Information Systems & Networks

# Participating Agencies



**Delaware  
Motor  
Transport  
Association**



# What is CVISN?

- CVISN is a collection of state, federal, and private **information systems** and **communications networks** that support commercial vehicle operations in three key areas:
  - Electronic Credentialing
  - Electronic Screening
  - Safety Information Exchange

# Electronic Credentialing

- Includes:
  - Vehicle titling and registration
  - Licensing
  - International Fuel Tax Agreement (IFTA)
  - International Registration Plan (IRP)
  - Oversize/Overweight Permitting System (OS/OW)
  - Hazardous Materials Permitting System (HazMat)
- Benefits:
  - **Save time and money** through automated processing of credentials information
  - **Improves customer service**



# IFTA and IRP Systems Improve Efficiencies for DMV and Motor Carriers

- **New IRP system** allows DMV to issue credentials electronically, and share data with other jurisdictions through CVIEW.
  - Customer Benefit -- provide motor carriers the ability to view and manage their IRP accounts remotely, and to conduct certain transactions without having to visit a DMV office.
  - DMV Benefit -- Administrative tools that help DMV automate some processes that were done manually on spreadsheets; additional reporting functionality, security controls, and other capabilities.
- **New IFTA system** will be integrated with the IRP system to provide additional administrative capabilities.
  - The system will give taxpayers the ability to file quarterly returns and will give us the ability to transmit tax remittances to other jurisdictions without relying on the Regional Processing Center (which will no longer be maintained by the jurisdiction of New York).
  - DMV will look to increase the percentage of carriers who utilize the web-based functionality, in order to reduce the amount of data entry needed to process manual tax returns.

# Safety Information Exchange

- Electronic distribution of safety inspection data among states
- Benefits
  - **Saves lives** by improving the safety of trucking operations
  - **Improves efficiency** by enabling enforcement personnel to focus efforts on non-compliant carriers

# Safety Information Exchange: Can you identify the unsafe trucks?

- All trucks look the same in a Pre-CVISN world





# Safety Information Exchange: Can you identify the unsafe trucks?

- With a few notable exceptions...



# Safety Information Exchange: Can you identify the unsafe trucks?

- CVISN helps identify trucks that have been pre-screened and trucks with poor safety records



# Electronic Screening

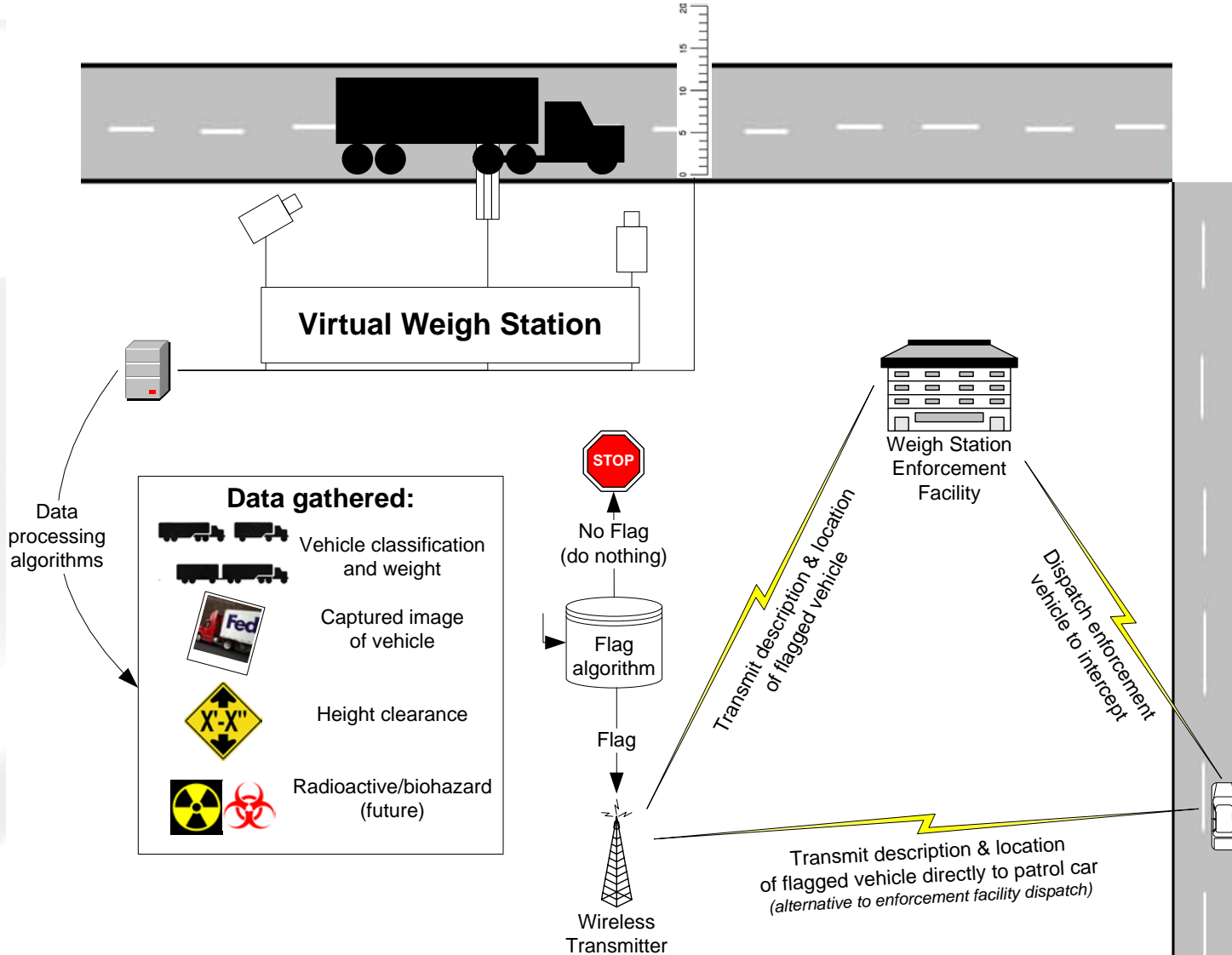
- Automated screening of commercial vehicles at weigh stations and ports of entry using transponders
- Benefits
  - Improves **efficiency of shipping operations**
  - More **efficient use of State resources**

## *Electronic Screening*

### – Virtual Weigh Stations

- Weigh-in-Motion
- Over-Height Detection
- Image Capture
  - Overview image
  - License Plate Recognition (LPR)
  - Automated USDOT Reader (AUR)
- Biological/Radiological Hazard detection (future)
- Universal ID Reader (future)

# VWS System Overview



# VWS Site Components



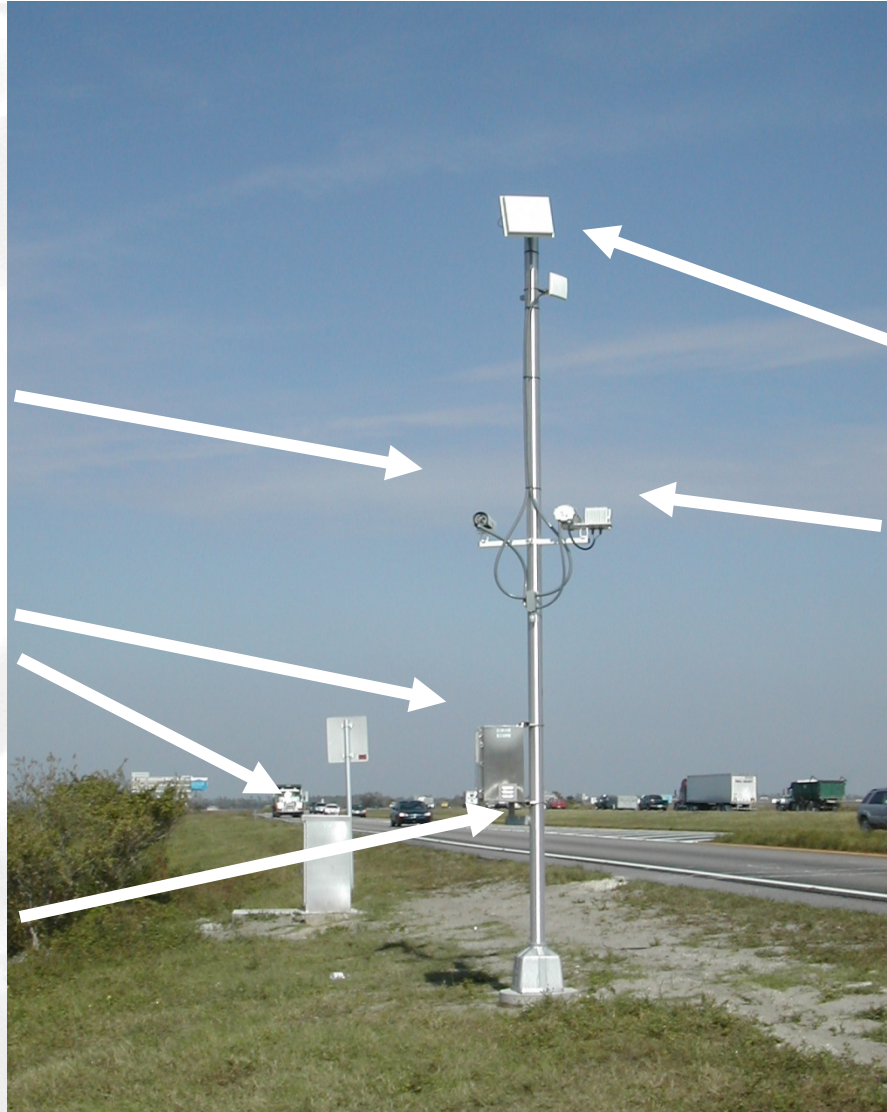
Weigh-in-Motion Scales

# VWS Site Components

Overview camera

Equipment cabinets

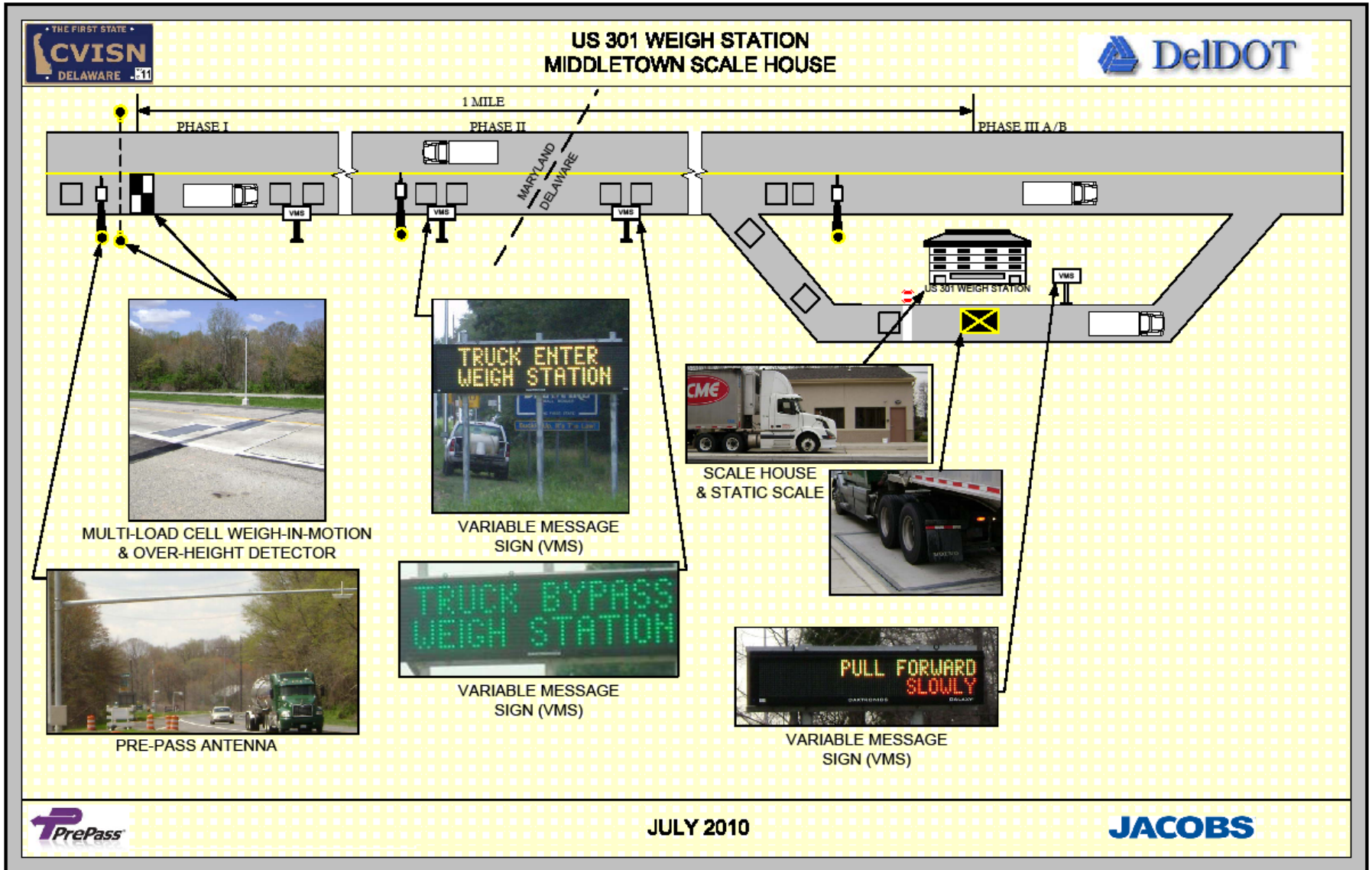
Camera pole



Wireless Antenna

LPR camera and Infrared light

# Layout of Delaware E-Screening Site



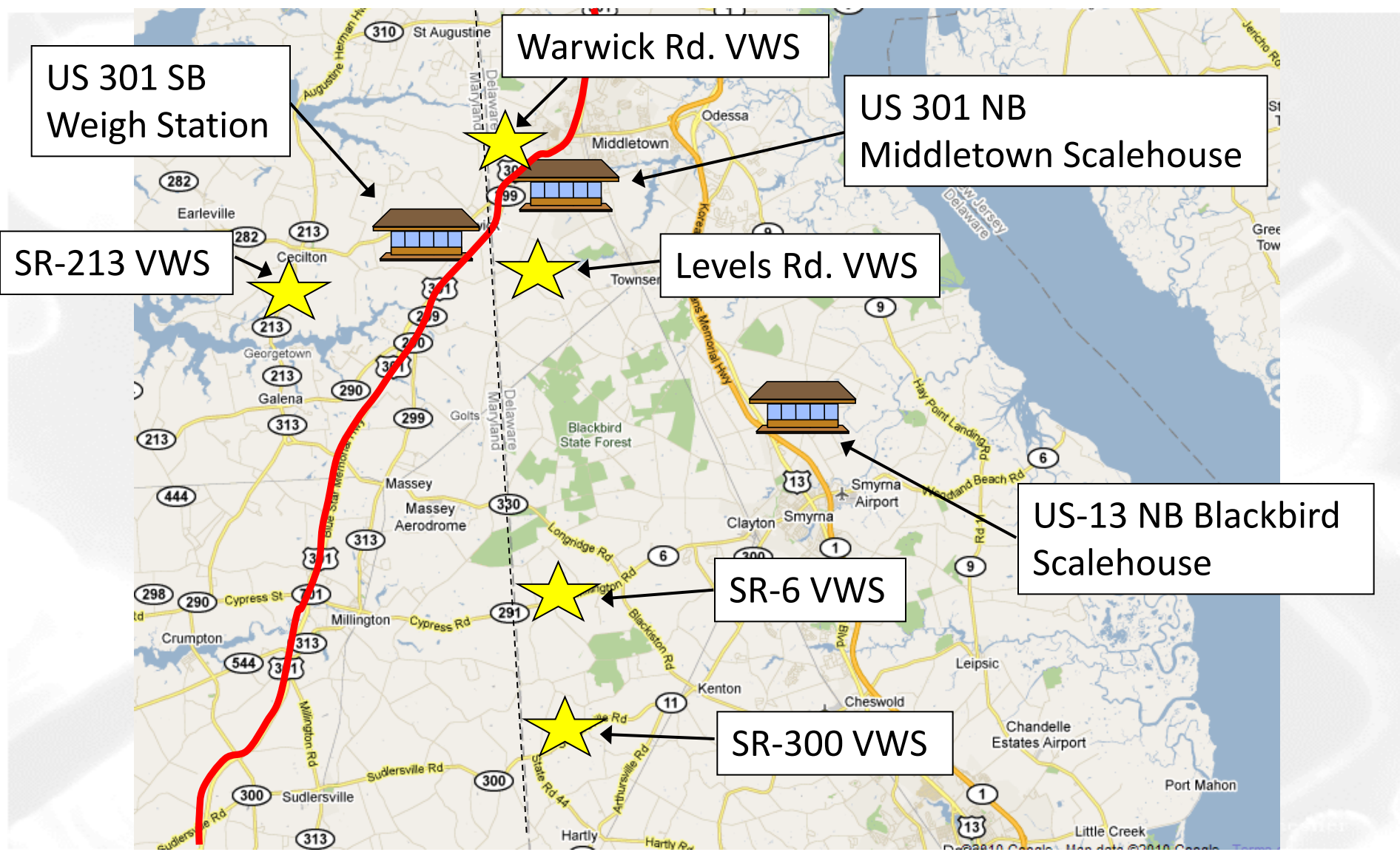




- CVO Enforcement on the US-301 Corridor
  - Delaware Weigh Station on NB US-301 just north of the State Line
  - Maryland Weigh Station on SB US-301 just south of the State Line
  - Delaware Devices located in MD (approaching Middletown Scalehouse)
    - ✓ WIM
    - ✓ Over-height Detector
    - ✓ Variable Message Sign (VMS)
    - ✓ Overview Camera (Future)



# Current Weigh Stations and Planned VWS along US-301 Corridor



# HELP's Services



- **PrePass** - PrePass is an automatic vehicle identification (AVI) system that enables participating transponder-equipped commercial vehicles to be pre-screened throughout the nation at designated weigh stations, port-of-entry facilities and agricultural interdiction facilities. Cleared vehicles are then able to "bypass" the facility while traveling at highway speed, eliminating the need to stop.
- **PrePass Plus** - PrePass Plus enhances the PrePass weigh station bypassing service by enabling drivers to not only bypass hundreds of PrePass-equipped weigh stations nationwide, but also pay their bridge and toll road fees electronically at *E-ZPass* electronic toll collection (ETC) facilities, all using a single transponder. This union of PrePass and E-ZPass eliminates the burden of maintaining separate accounts, pre-paid credit balances, and multiple transponder inventories. PrePass manages everything for you: providing consolidated technology, post-paid invoicing, and a single point of contact for all your account needs.

# HELP's Services



- **PrePass Gates** - PrePass Gates is a comprehensive, fully integrated gate control access management system that allows drivers to enter and exit controlled-access terminal yards or parking areas utilizing the same PrePass transponders used to bypass weigh stations.
- **PrePass Ag** - PrePass has partnered with the Florida Department of Agriculture and Consumer Services (FDACS) to offer PrePass Ag, a service enabling commercial carriers to bypass select agricultural interdiction facilities in Florida in the same way they bypass PrePass weigh stations. Only motor carriers that do not haul dedicated agricultural cargo will be given approval by the FDACS.
- **PrePass eLOGS** - PrePass eLOGS is the fastest log scanning and auditing service available. With PrePass eLOGS, you receive the most comprehensive and efficient log auditing solution at the lowest cost, with the quickest turnaround. PrePass eLOGS receives logs, scans them, and then captures the necessary log data points to perform a standard audit. PrePass eLogs can also perform a daily fuel data audit.

# Additional Services: Bolt on Technologies to PrePass Network



## ■ 360SmartView

- Ramp Screening
- License Plate Recognition
- DOT recognition
- Laser Detection and Classification

## ■ Smart Phones

- Self-service functionality
- Integration with DSRC
- Bypass notification

## ■ Ramp WIMs

- Weight detection and classification
- Auto calibration of mainline

## ■ 5.9 DSRC (future)

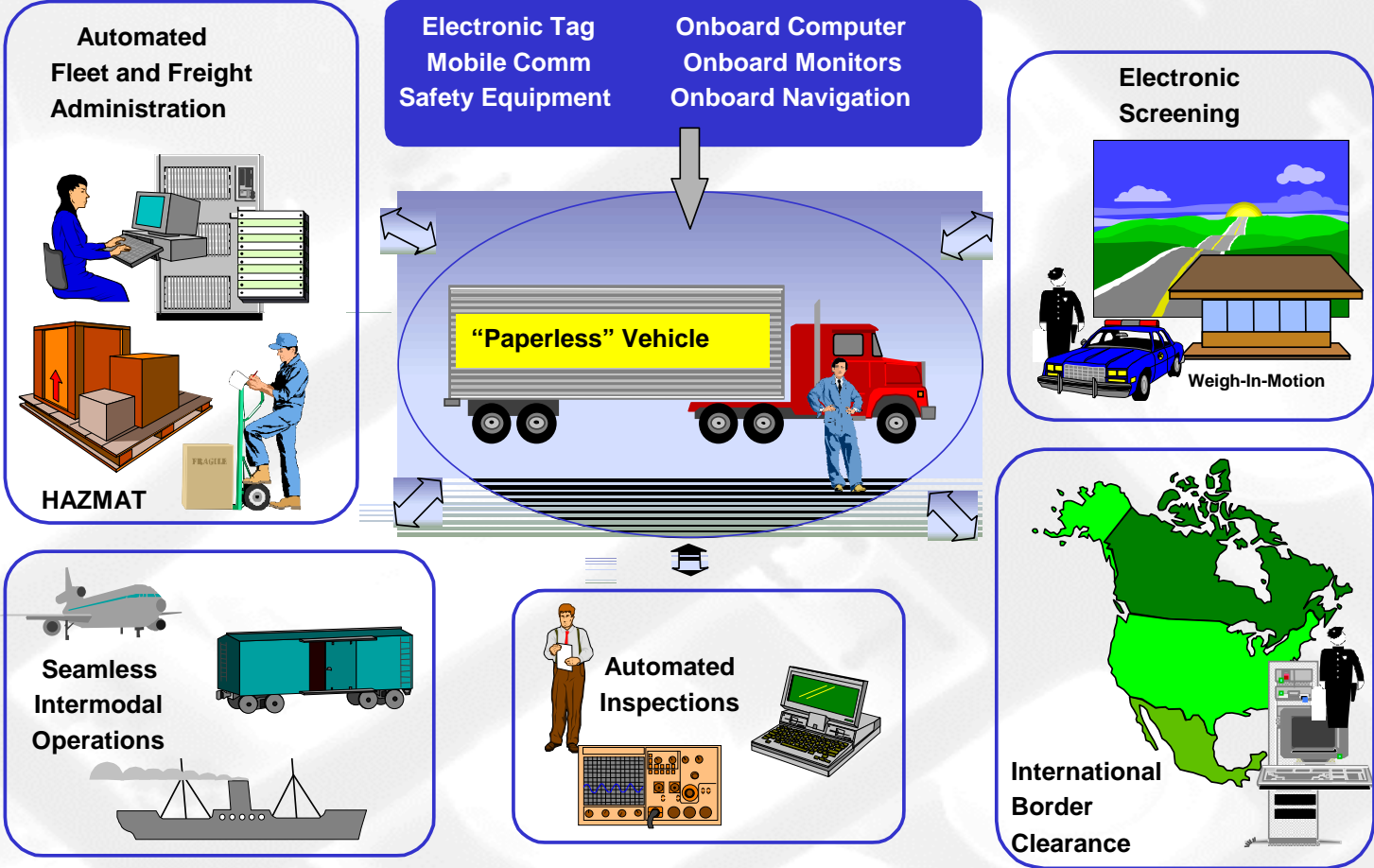
- EOBR Integration
- Electronic credentialing and management
- Truck Health
- Fuel Savings
- Crash Avoidance



*Provides the ability to leverage existing PrePass infrastructure and systems at reduced costs*

# CVISN VISION:

## Safe and efficient shipping operations



# Takeaway Points

- Technology works for the benefit of both the public and private sector
- Delaware is using the CVISN program to increase public safety, and create efficiencies in DMV operation and its commercial vehicle customers
- PrePass is more than just a weigh station bypass tool



# Any Questions?

Gregory Oliver

Delaware CVISN Program Manager

Delaware Department of Transportation

800 Bay Rd.

Dover, DE 19903

302-760-2116

[Gregory.oliver@state.de.us](mailto:Gregory.oliver@state.de.us)