



**Baltimore-Washington Regional  
Traffic Signal Forum  
March 14, 2007**

**Raymond J. Khoury P.E.  
Virginia Department of Transportation**

- **Over 58000 miles of highways**
- **2500 Traffic Signals**
- **1400 Signals in NOVA region**
- **180+ miles of CCTV/camera coverage on interstates**
- **70 Signal Technicians**
- **9 districts 95 counties**

- Signal Optimization Program
- Freeway/Arterial Integration
- Evacuation/Special events
- Emergency Vehicle Preemption
- Light Emitting Diode (LED)
- Resources and Training
- Inter-Jurisdictional Coordination

# Lightning Strikes



## ➤ Electrical Grounding System

- ✓ prevent personnel injury and minimize equipment damage
- ✓ Provides a safe path for dissipation of:
  - \* Fault Currents
  - \* Lightning Strikes
  - \* Static Discharges
  - \* EMI (Electromagnetic Interference)
  - \* RFI (Radio Frequency Interference)
  - \* Other signal interference

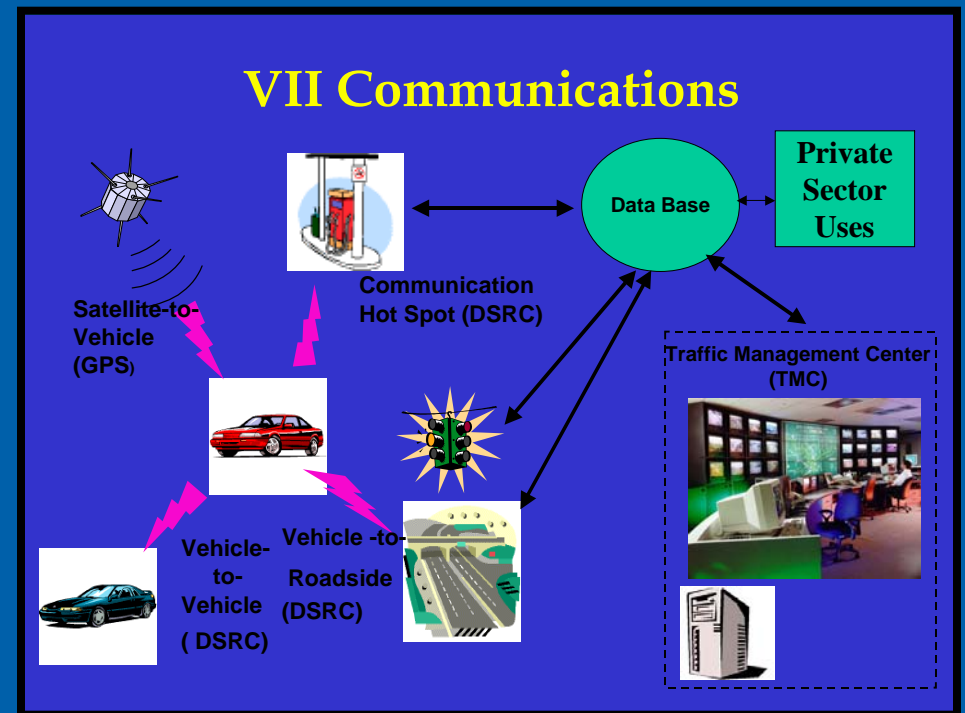
Vehicle Infrastructure Integration (VII) deployment holds the potential to impact in many areas:

- Integrated Systems Operations
- Weather Information
- Commercial Freight Mobility Info
- Responding to Emergencies & Security Events
- Safety Applications
- Enhanced Traffic Information

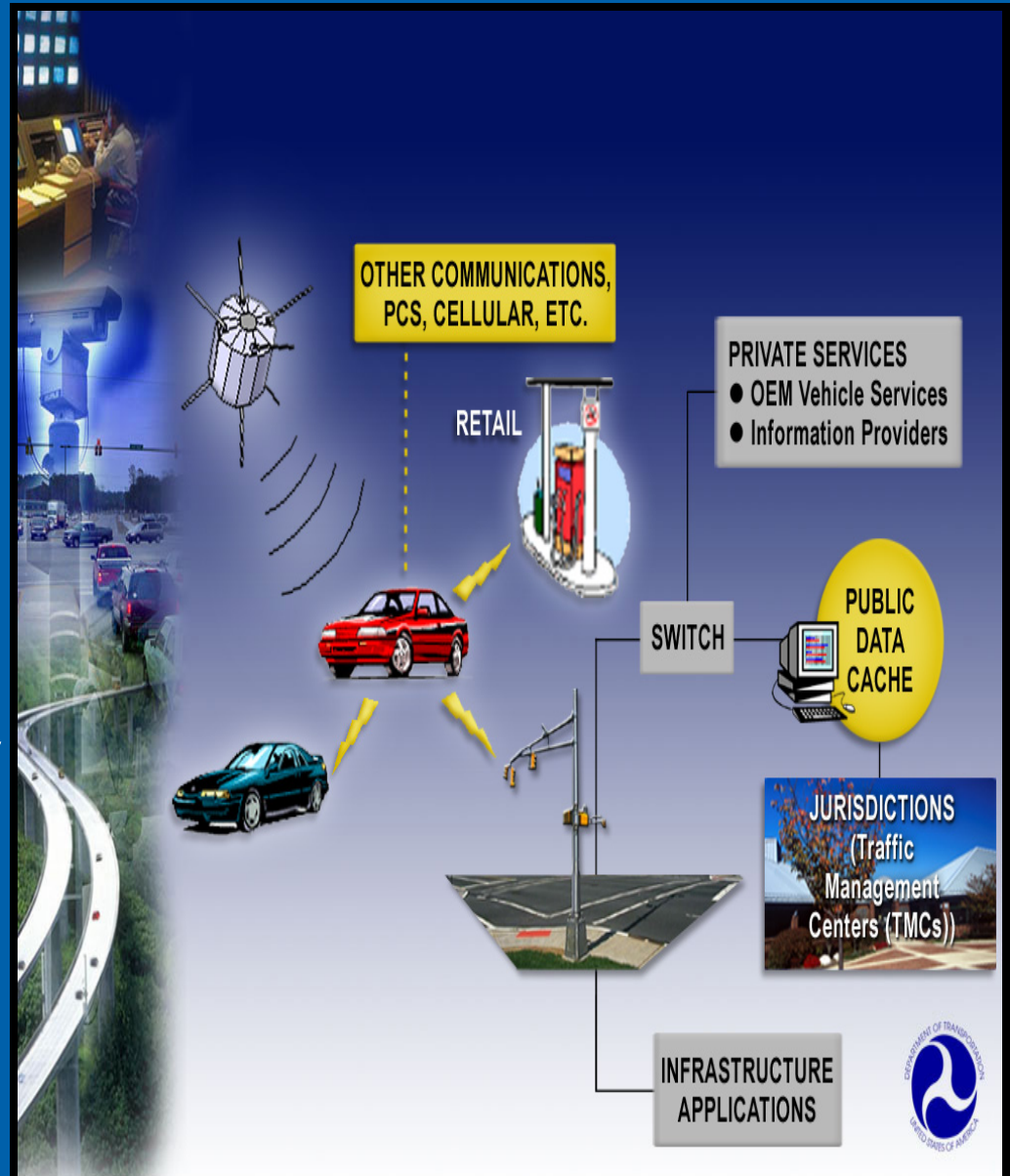


**Integrated Traffic Signal Systems**

**Managed Lanes**



VDOT is an active member of the VII Working Group at the national level and is pursuing opportunities to advance the development locally



# Red Light Camera



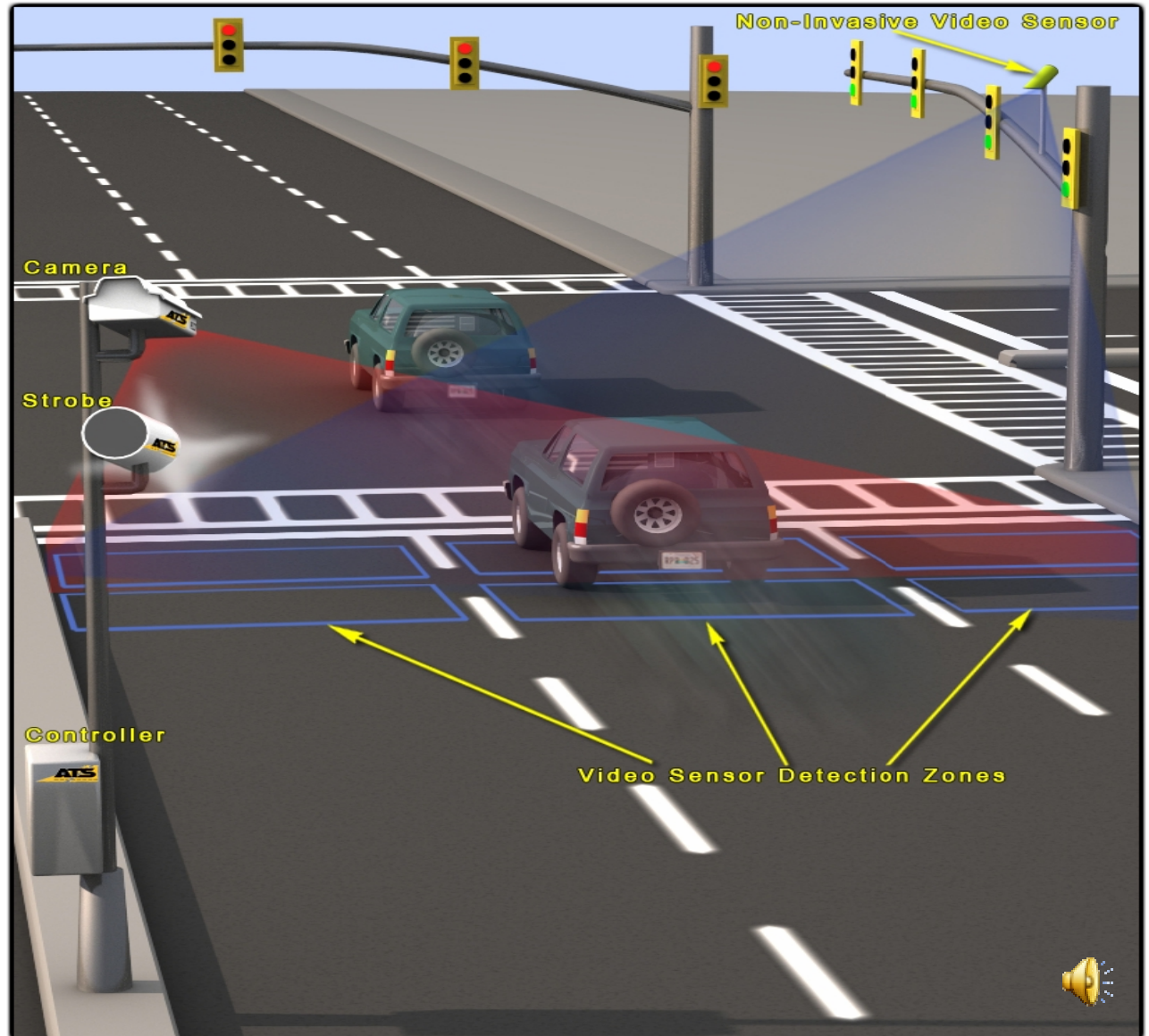
First Image - Before Shot of Violation



Second Image - Shot of Vehicle in Intersection



License Plate Close-up from one of the two violation images



- HB 1778 passed both houses, awaiting governor's signature
- Any locality by local ordinance may establish a traffic signal enforcement program
- No more than one intersection for every 10,000 residents
- Maximum penalty of \$50

- Specifies factors to consider in selecting intersections – VDOT approves locations
- Safety analysis for each intersection
- Yellow timing based on ITE methodology
- Minimum 0.5 second grace period
- Cameras and signals evaluated monthly
- Annual certification of compliance with the law
- Public awareness campaign
- Conspicuous signs on monitored approaches



Thank you