

# Connected **Commercial** Vehicles Commercial Vehicle Infrastructure Integration

Smart Commercial Vehicles

Smart Infrastructure

ITS Technologies  
Wireless Communications

## Enhancing Safety, Mobility and Operations

**Very high speed transactions among vehicles,  
and between vehicles and infrastructure components**

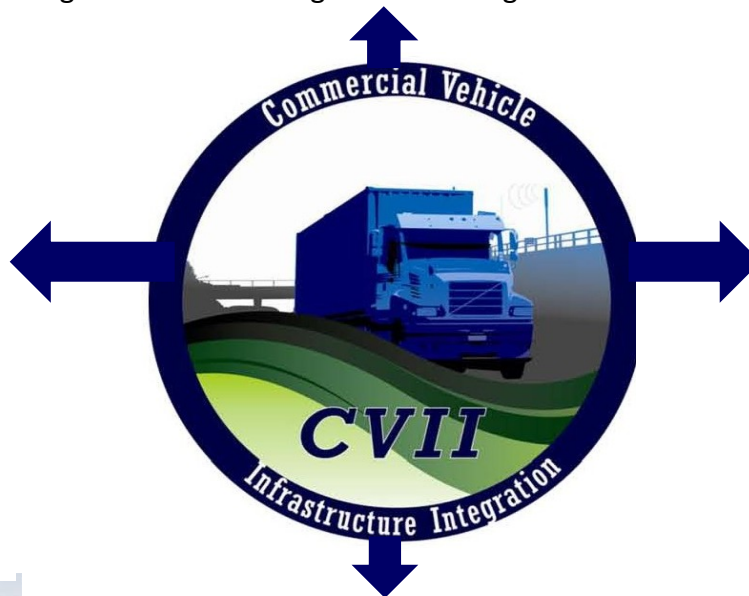
The I-95 Corridor Coalition and the New York State Department of Transportation - in cooperation with the USDOT - have developed and tested connected vehicle applications with an emphasis on heavy vehicles. The **Commercial Vehicle Infrastructure Integration (CVII)** program is a multi-agency effort which utilizes permanently deployed infrastructure in New York State. CVII focuses on 5.9 GHz dedicated short-range communications (DSRC) technologies to wirelessly exchange real-time information between roadside infrastructure and vehicles. On-board equipment and human-vehicle interfaces have been developed and tested, along with several CVII V2I, I2V and V2V applications including commercial vehicle screening, driver identification and verification with vehicle disabling, in-vehicle signage and traveler information and maintenance vehicle operational warnings (snow plow and work zone operations).

### Infrastructure-to-Vehicle and Vehicle-to-Infrastructure (I2V and V2I)

- Driver credential verification with vehicle enabling/disabling for security purposes
- Enhanced mainline screening for wireless safety inspections including driver credential information and vehicle safety systems status (brakes, lights, tires)
- Backoffice integration with existing NYS Screening network

### Infrastructure-to-Vehicle (I2V)

- In-vehicle signage
- Traveler information including traveler advisories
- Backoffice integration with NYS Traffic Management Operations and NYS 511 including routing and clearance restrictions, incident and event information, and driver warnings (Phase III)



### Vehicle-to-Infrastructure (V2I)

- Vehicle probe data including location, heading, speed and time
- Vehicle and fleet management information (e.g., Phase III oil temp/level, fuel level and use)



### Vehicle-to-Vehicle (V2V)

- Maintenance vehicles broadcast location and plowing/work zone operations to other vehicles



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For more information, visit [www.i95coalition.org](http://www.i95coalition.org)

