U.S. Department of Transportation
Federal Motor Carrier Safety Administration

Federal Motor Carrier Safety Administration

Technology Program Overview

ITS America 2013 Annual Meeting, Session SS25:

Advancing Wireless and Innovative Safety Technologies for Heavy Truck Operations

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Federal Motor Carrier Safety Administration
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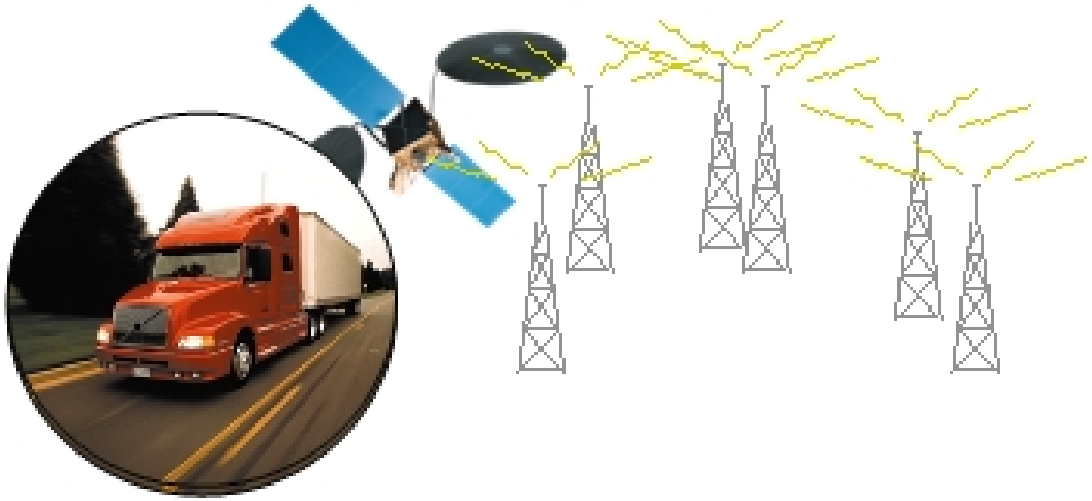
Office of Research and Information Technology

Outline

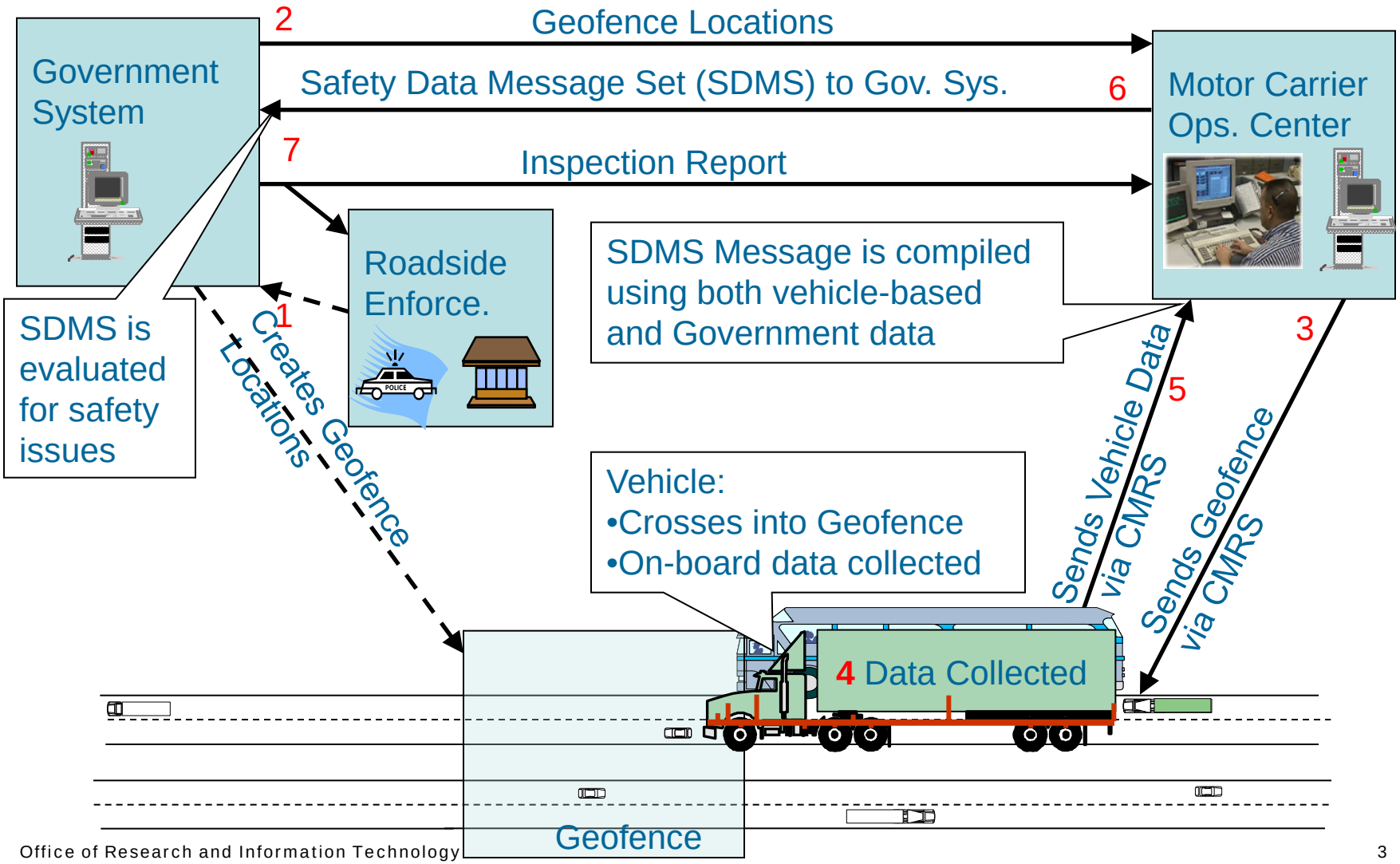
- FMCSA Technology Program
  - Roadside Technologies
  - Onboard Technologies
  - Green Technologies
- Technology Transfer & Deployment

Roadside Technologies

- Query Central Mobile App
- SaferBus Mobile App
- Wireless Roadside Inspection (WRI) Research Program

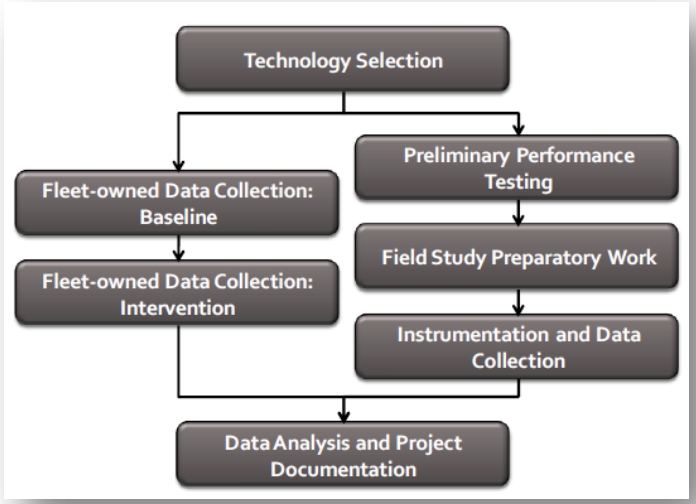


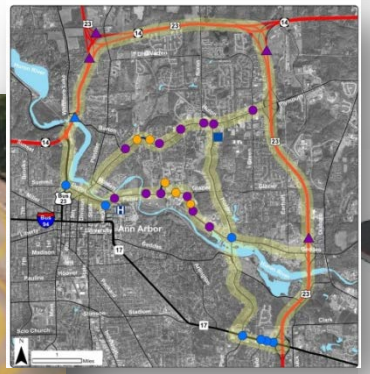
WRI Concept Overview

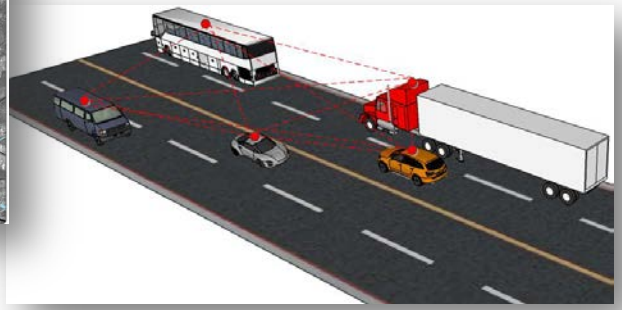


Onboard Safety Technologies

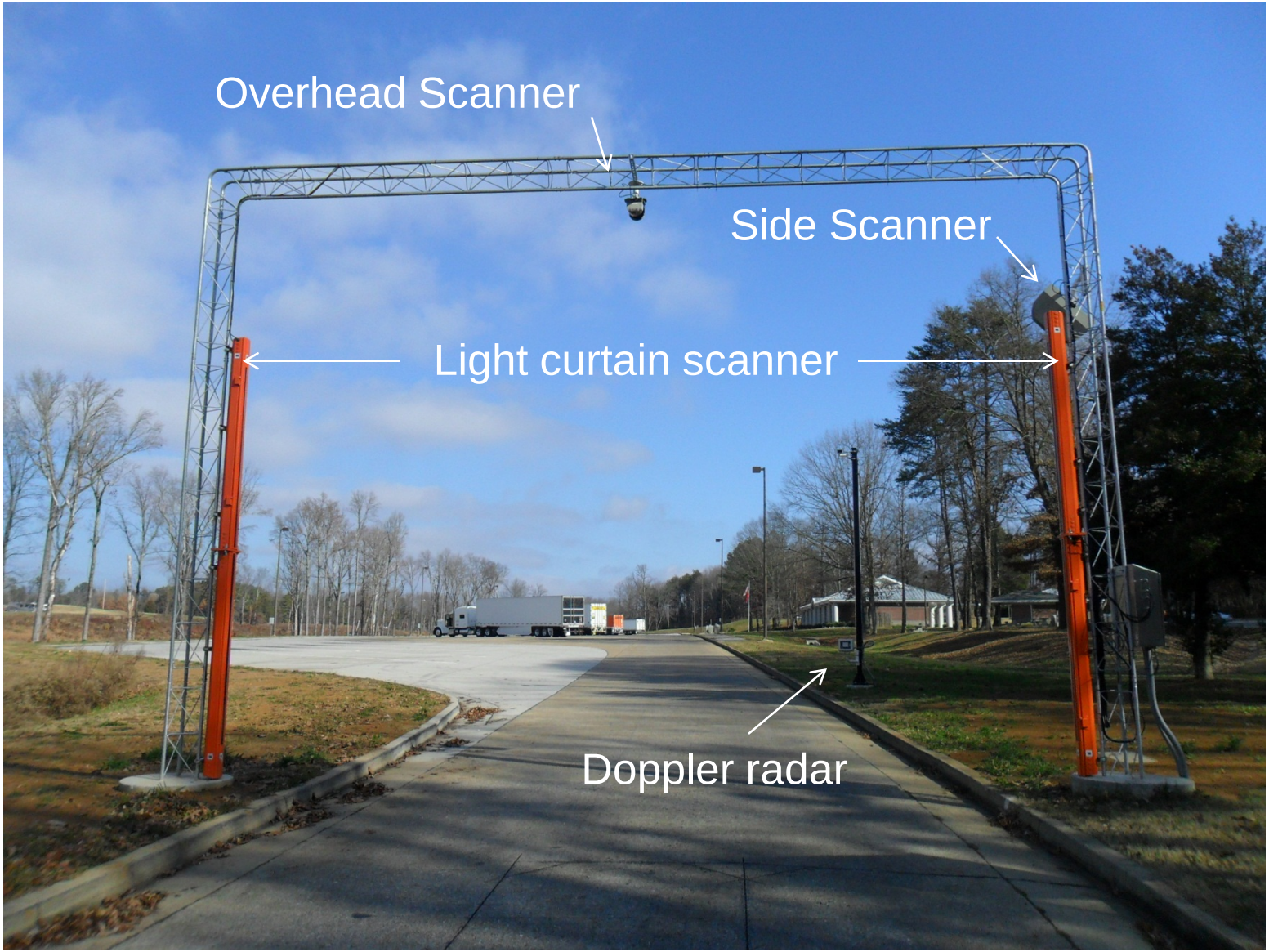
- FAST-DASH
- USDOT V2V/V2I Research; Safety Pilot Test
- SBIR projects (trailer identification, anti-texting enforcement)
- Smart Parking for Truckers



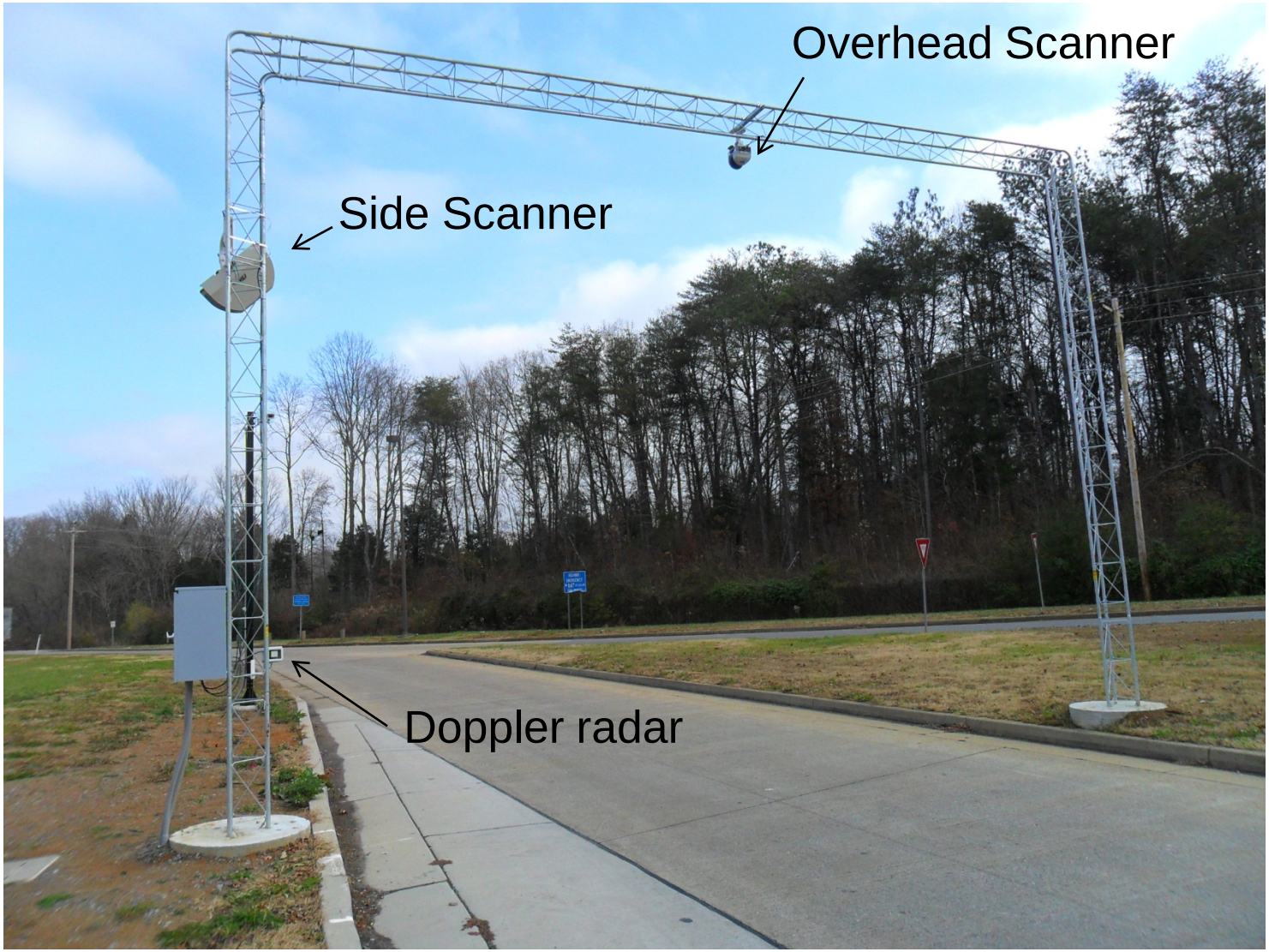




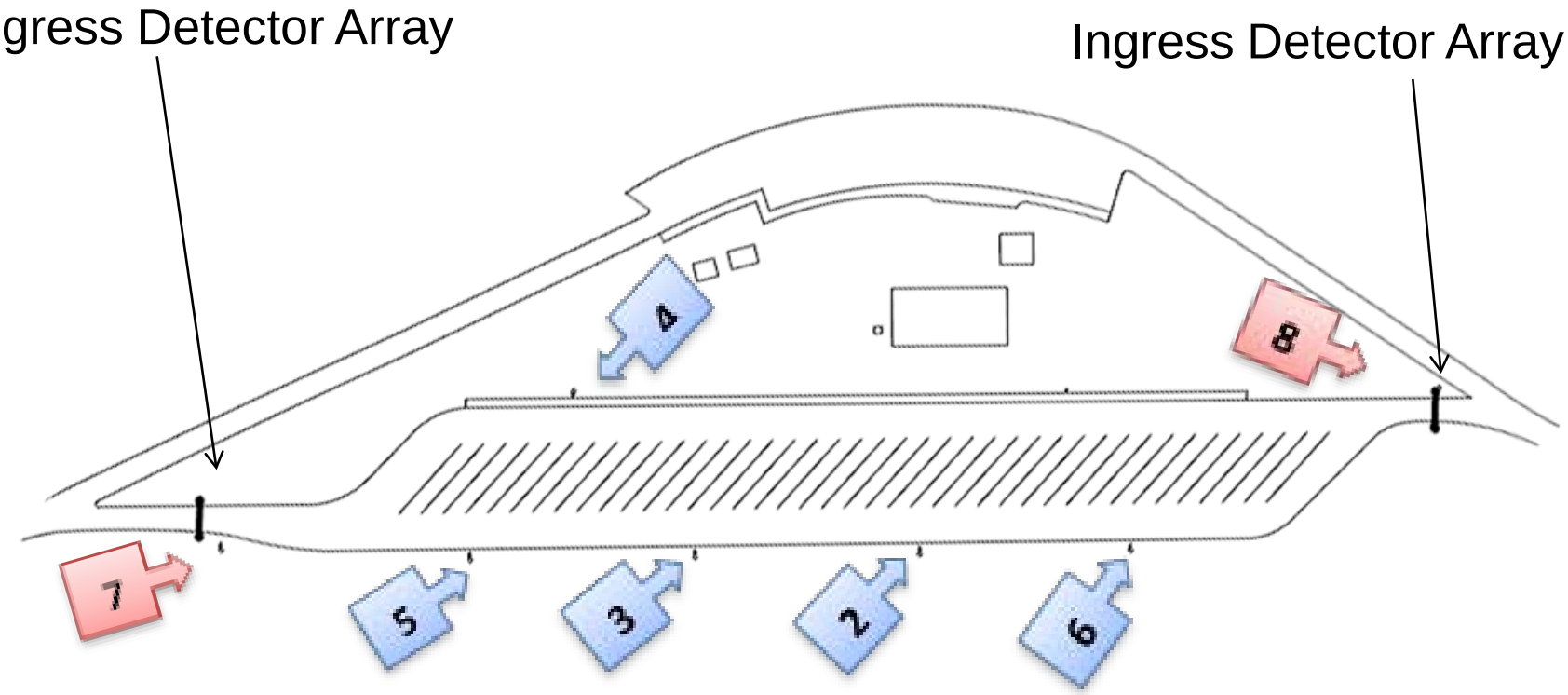
SmartPark Test Site Ingress – Technology Array



SmartPark Test Site Egress – Technology Array



SmartPark Site Layout



CCTV for Sensor Data Verification

Green Technologies—Inspection considerations

- Hydrogen as Alternative Fuel
- Natural Gas as Alternative Fuel
- Hybrid/Electric as Alternative Fuel

Technology Transfer and Deployment Priorities

- **CVISN Grant Program**
  - Widespread deployment of Core Functionality
  - Continued growth of Expanded Functions
  - International Border E-Screening Sites
- **Roadside Technologies**
  - Performance-based Brake Testers
  - Fully automated infrared-based inspection systems
  - Handheld wireless ABS checking devices
- **Onboard Safety Technologies**
  - Continued support for onboard safety systems deployment by fleets
  - SmartPark systems

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