



# **Truck Size and Weight Enforcement Technologies Project**

## **Smart Roadside Workshop April 28, 2008**

**Mike Onder, Team Leader  
Truck Size and Weight  
Freight Operations and Technology**



# Project Overview

- Objectives

- Investigate how technologies can be combined and deployed to enhance the efficiency and effectiveness of states' truck size and weight enforcement programs
- Recommend strategies to encourage the deployment of roadside technologies to improve truck size and weight enforcement



## Project Overview (continued)

- Federal Highway Administration's Office of Freight Management and Operations is the sponsoring agency
- Technical Review Committee (FHWA, FMCSA, ITS Joint Program Office, and CVSA) provides direction, facilitates other stakeholders' involvement, and reviews deliverables



# Task 1 Overview

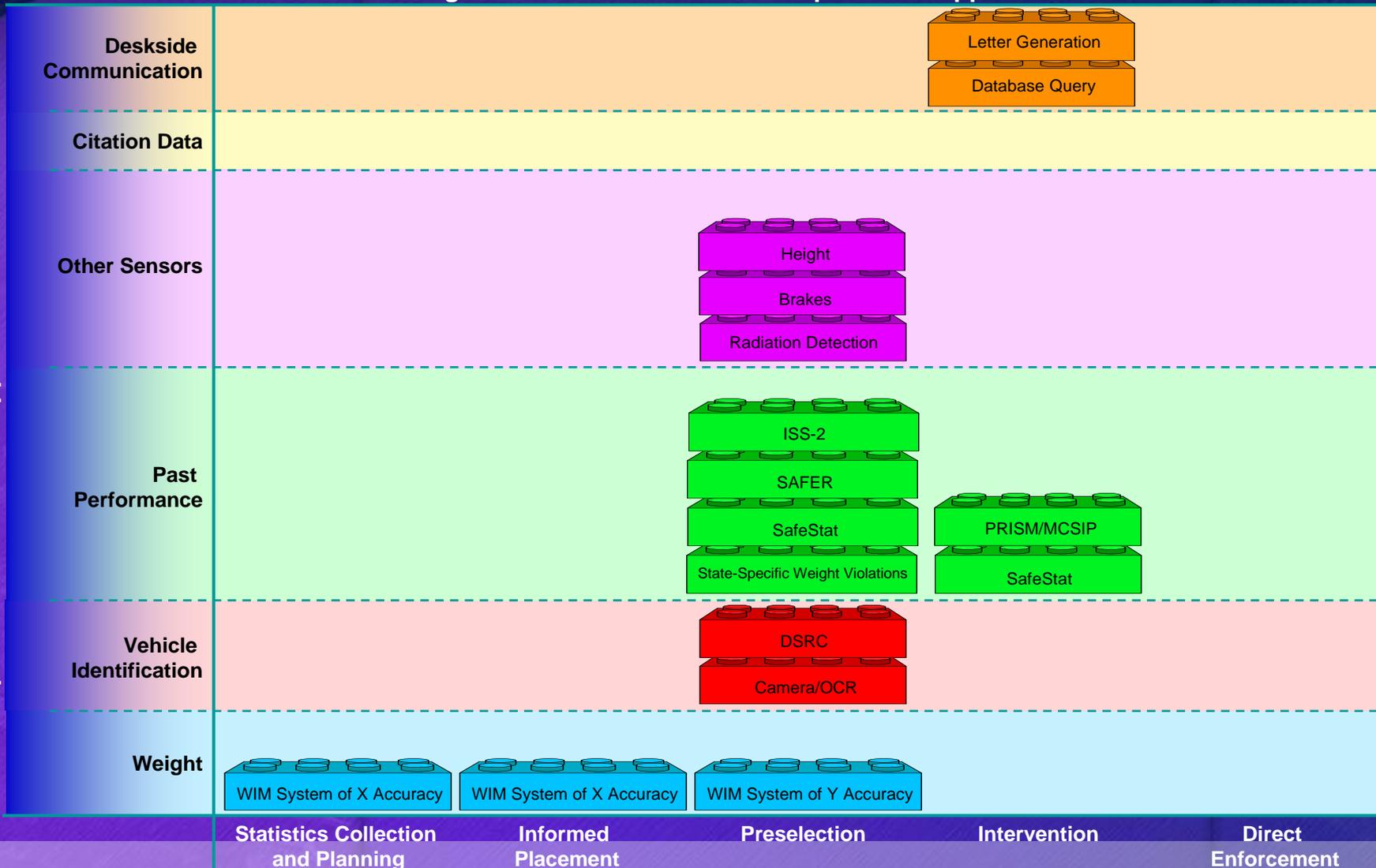
- Objective
  - Produce a diagram that illustrates how roadside technologies could be combined to improve the efficiency and effectiveness of various elements of the roadside enforcement process in the United States
- Deliverable – “American Lego Diagram”
  - “Near-Term Activities” view depicts activities and technologies currently deployed in the U.S.
  - “Long-Term Activities” view depicts activities and technologies that are planned or could be deployed within the next five to seven years



# Near-Term Activities Conducted at Roadside

## Technologies to Collect Information Required to Support Roadside Activities

Required Information to Support Roadside Activities





# Long-Term Activities Conducted at Roadside

Technologies to Collect Information Required to Support Roadside Activities

Required Information to Support Roadside Activities

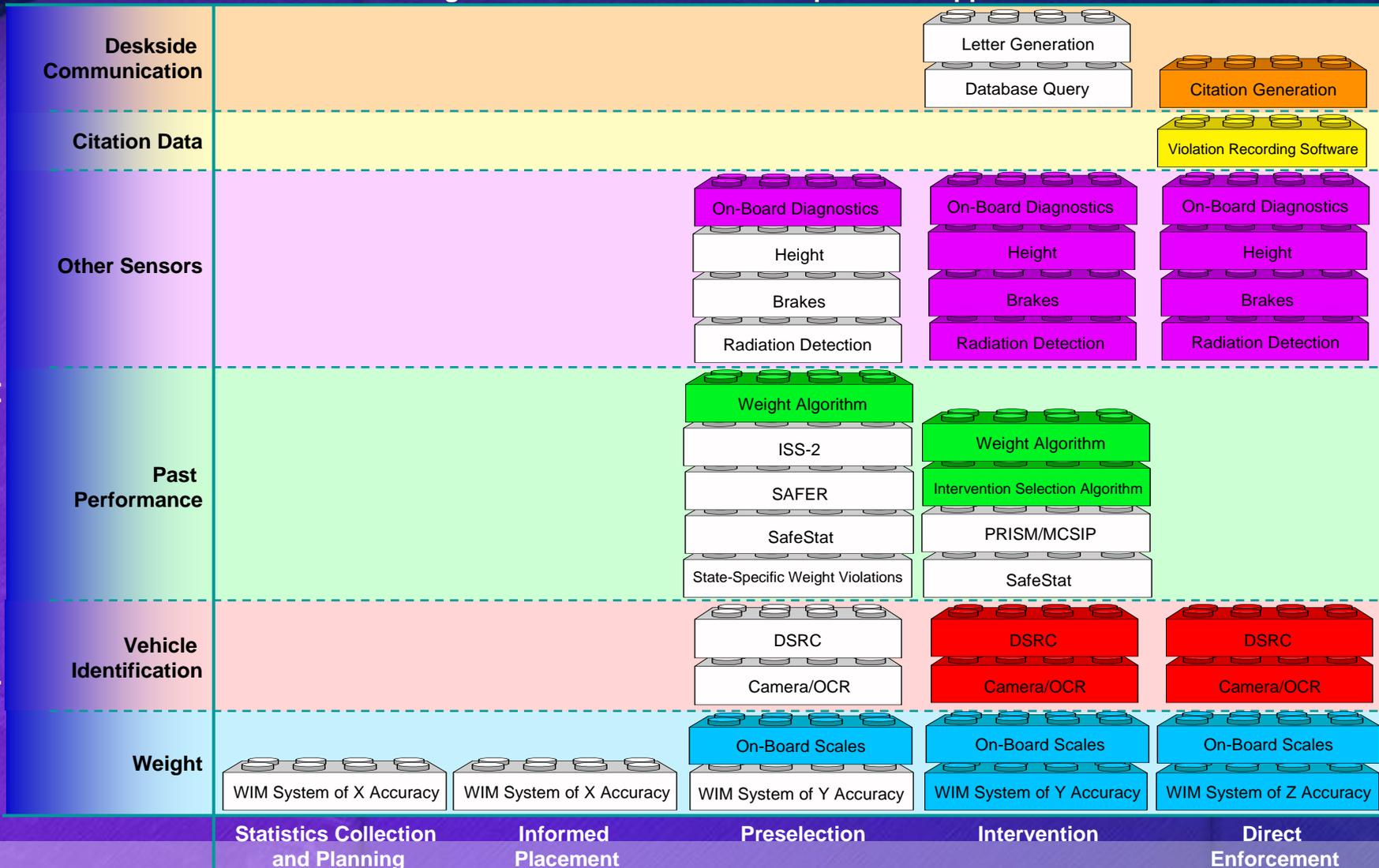




# Activities Conducted at Roadside Near-Term versus Long-Term

Technologies to Collect Information Required to Support Roadside Activities

Required Information to Support Roadside Activities





# Upcoming Tasks

- Document the state of the practice for the technologies depicted in the Lego Diagram
- Document deployment challenges
- **Develop a concept of operations for the virtual weigh station**
- Develop a procedure for using weigh-in-motion
- Determine the feasibility of motor carrier use of data
- Determine other Federal agencies' potential roles
- Develop an implementation strategy



# State of the Practice and Challenges

- States are being interviewed to support documentation of the “state of the practice” for the Lego technologies and challenges that impact deployment
  - Design of the roadside enforcement program
  - Deployment locations
  - Problems addressed by the deployments
  - Linkages between the technologies or to other safety, security, and/or mobility applications
  - Reasons for selecting the technologies
  - Estimated costs and funding sources



# State of the Practice and Challenges (continued)

- State interviews (continued)
  - Exceptional technical requirements
  - Deployment challenges and how to address them
  - Technical performance and success in addressing problems
  - Limitations of the technologies and how to address them
  - Motor carrier involvement in planning activities
  - Lessons learned
  - Plans to enhance/add on to the deployments, or integrate the technologies with other systems



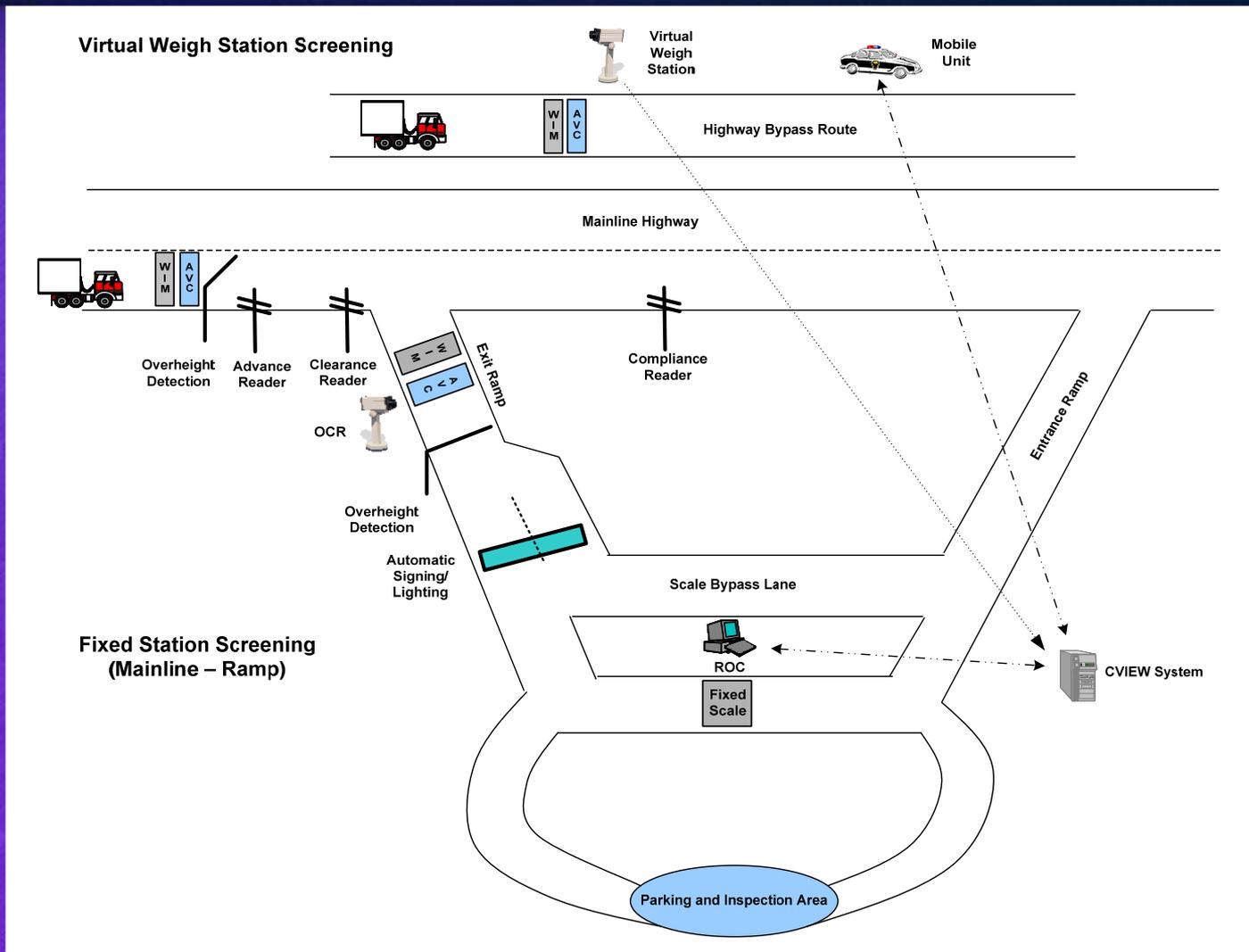
# Virtual Weigh Station



Source: IRD Website



# Virtual Weigh Station (continued)





# Contacts

- Mike Onder  
Federal Highway Administration  
(202) 366-2639  
[Michael.Onder@dot.gov](mailto:Michael.Onder@dot.gov)
- Tom Kearney  
Federal Highway Administration  
(518) 431-4125 ext. 218  
[Tom.Kearney@fhwa.dot.gov](mailto:Tom.Kearney@fhwa.dot.gov)