Smart Roadside Monitoring Systems
Presented by:
Roy Czinku
International Road Dynamics Inc.
(306) 653-6627
roy.czinku@irdinc.com

On behalf of:
Reymundo Rodriguez
Commercial Vehicles Manager
Idaho Department of Transportation
(208) 334-8699
Reymundo.rodriguez@itd.idaho.gov
Smart Roadside Monitoring System

• A collection of tools that gather, report, and present traffic data from a variety of roadside devices

• Partners with Idaho State Police

• Completed in March 2008

• Located on two routes from Canada – northbound and southbound lanes - Highway 1 and US 95.
The Issue

Weight Enforcement typically consists of:

- Permanent weigh stations on major interstates
- Mobile/Portable teams to cover alternate routes

Alternate Routes or Secondary Highways not always monitored:

- By-pass or evasion of weigh stations is likely

Mobile Enforcement is limited in its effectiveness:

- Can be predictable.
- Significant resources used to cover secondary routes.
SRMS Requirements

- Capture images and weights of commercial vehicles on alternate routes like the border
- Immediate information on enforcement criteria
- Determination of best enforcement times.
- Truck route and bypass monitoring
- Continuous data collection for traffic statistics.
SRMS Instrumentation

Two Virtual Weigh Stations located on US 95 & SH 1 are capable of:

- Capturing vehicle-specific information which than can be viewed real time via the internet or stored for roadway data analysis.
SRMS Capabilities

• Supplements an agency’s fixed and mobile enforcement operations

• Allows continuous data to be collected on truck operations, and provides data to better plan enforcement strategies.

• Integrates a high accuracy WIM system with video image capture and over-height detection to allow images of vehicles to be stored with the size and weight data

• Allows for remote access, including access using handheld or wireless technology
SRMS Benefits

- Wireless Access to the data and images allows mobile officers to access and use the system.
Login to Web Application

Enter User ID and Password to login.

Copyright 2009 International Road Dynamics Inc. (IRD) Unauthorized access is prohibited.
Real Time Configuration

Realtime Configuration

Realtime Lane Class Filters & Cameras

Idaho SRMS

Lane: Idaho SRMS SH1 - South Bound (ID:0)
- Display Lane
- Class
- To
- Error Vehicles
- Camera

Lane: Idaho SRMS SH1 North Bound (ID:1)
- Display Lane
- Class
- To
- Error Vehicles
- Camera

Lane: Idaho SRMS US95 - South Bound (ID:0)
- Display Lane
- Class
- To
- Error Vehicles
- Camera

Lane: Idaho SRMS US95 - North Bound (ID:1)
- Display Lane
- Class
- To
- Error Vehicles
- Camera

Save Lane Configuration

Realtime Units & Interval

- Select Weight Unit: KIPS
- Select Length Unit: FEET
- Select Speed Unit: MPH
- Select Temperature Unit: F

Select the Realtime refresh interval (sec): 2

Save Units & Interval Configuration
Report Wizard

Report Wizard
HOME > REPORTS > REPORT WIZARD

This wizard will assist you with the tasks required to generate your reports

Required Info
Select Site
SH1 SRMS - Milepost 6

Select Date(s)
Start: Aug 24, 2009
End: Aug 24, 2009

Select Output Format
Adobe Acrobat (*.pdf)

Generate
## Generated Reports

### Report List

<table>
<thead>
<tr>
<th>Report Generation</th>
<th>Site</th>
<th>Report Type</th>
<th>Report Summary</th>
<th>File Name</th>
<th>Remove</th>
</tr>
</thead>
</table>

©Copyright 2009 International Road Dynamics Inc. (IRD) Unauthorized access is prohibited.
A SRMS may be used in a variety of ways:

- Screening for immediate interdiction
- Soft enforcement
- Targeted audits / compliance checks
- Strategy development and evaluation: where, when, and who to check (location, time of day, vehicle class)
- Statistical and data analysis
- Traffic engineering and planning
- Real time traffic information
Questions?

Roy Czinku
International Road Dynamics
(306) 653-6627
roy.czinku@irdinc.com