

# Intelligent Work Zone Systems Overview

## APPLICATIONS

- Work zone areas with possible congestion / stopped traffic.
- Emergencies/Incidents
- Special Events

## PURPOSES

- Increase safety and mobility for road users and workers
- Improve project design and operations via collected data
- Monitor, Respond & Control situation

## UNIQUE BENEFITS

- **Portable:** Solar Powered and Trailer-Mounted
- **Automated:** Networked and Online
- **Real-time:** Constant Data Stream

## CONFIGURATIONS

- Traffic Information and Prediction System (TIPS) (Evaluated & Published)
- Advanced Speed Information System (ASIS)
- Congestion Monitoring and Advisory System (CMAS)
- Dynamic Late Merge System (DLMS)

## INPUTS

- Microwave Sensors
- Bluetooth
- Cameras

## THROUGHPUTS

- Wireless Modems
- User Interfaces
- Software
- Central Servers

## OUTPUT CHANNELS

- Portable Changeable Message Boards
- Your Laptop/iPad (provided)
- Websites, Email, Texts, Smartphone App, Twitter...
- Radio
- .xml feeds (for TMC, etc.)

## OUTPUT DATA

- Travel Times, Speeds, Delays
- Alternate Routes, Warnings, & Advisories
- Still Images, Videos
- Data Archiving
- Research

## COST

- Averages .5%-1% of construction budget, depending on system size and complexity.