WHY USE JAMLOGIC IN SMART WORK ZONES?

Smart Work Zones (SWZ) improve safety and mobility and save lives by providing useful driver information, improving traffic flow and reducing incidents. Data demonstrates that during the past 5 years, Smart Work Zones, along with other safety initiatives, have reduced fatalities in US work zones nearly 30%. An example of effectiveness that the implementatation of smart work zone systems brought to the TxDOT during I-35 construction in central Texas:

**IN US WORKZONES, THERE WERE:**

- **669** Fatalities in 2014
- **47,758** Injuries in 2013
- **41%** of fatal crashes were rear-end collisions in 2014

18 to 45% reduction in crashes

$6,000 - $10,000 savings / night deployment

$1,400,000 - $1,800,000 savings in societal crash costs so far

**SWZ EQUIPMENT**

Ver-Mac is a leading manufacturer of NTCIP-compliant SWZ equipment:

- Portable changeable message sign (PCMS)
- Permanent dynamic message sign (DMS)
- Portable sensors and cameras
- Speed-Mac portable sensors
- Work zone and variable speed limit signs (VSL)
- Speed information feedback signs
- Additional SWZ devices

**JAMLOGIC SOFTWARE**

Ver-Mac’s JamLogic software provides transparent web-based access to all devices and data. The software analyzes traffic data and provides real-time information to the motoring public, project managers, agency traffic management centers (TMC) and public websites. Ver-Mac can provide the right technology and application to make your work zone smart.

- Queue detection and warning
- Work zone travel time / alternate route
- Work zone and variable speed limits
- Zipper merge (Late merge)

**EXPERTISE**

- Over 15 years and 250 successful SWZ deployments
- A team of engineers that designs detailed SWZ plans
- Trained technicians to implement the logic and deploy the equipment
- Software and staff to manage the project

---

U.S. Department of Transportation/Federal Highway Administration (FHWA)

workzonesafety.org
**STEP 1**
JamLogic software wirelessly collects data via high-speed modems from a variety of field sensing devices and/or third-party traffic flow data.

**STEP 2**
JamLogic server analyzes the data based on algorithms. The logic and messages are predetermined by the project engineer and/or agency.

**STEP 3**
JamLogic automates the messages and provides real-time information to the motoring public, project managers, agency TMC and public websites. JamLogic can provide users with email or text alerts of incidents.

---

**JAMLOGIC SYSTEM OVERVIEW**

**RAW DATA INPUT**
- CAMERAS
- SPEED SENSORS (DOPPLER)
- WEATHER STATIONS
- VOLUME SENSORS (MICROWAVE)
- BLUETOOTH
- 3RD PARTY DATA (TOM TOM, HERE, ETC.)

**REAL-TIME INFO OUTPUT**
- DMS
- TRAVEL INFO
- PCMS
- ALERT (E-MAIL/TEXT)
- VSL

**JAMLOGIC BENEFITS**
- Increased traveler and worker safety
- Cost savings due to reduced incidents
- Better information to motoring public
- Quicker incident response and improved mobility
- Real-time project visibility
- Data analysis at your fingertips
- Better understanding of traffic conditions
- Meets the requirements in the FHWA's Section 1201 Final Rule

**JAMLOGIC FEATURES**
- Scalable, flexible and customizable system
- Speed data from multiple sources
- Interactive GPS device mapping and listings
- Transparent logging and history data
- Automated email and text traffic alerts
- Streaming video with PTZ control
- Unlimited users / various levels of access
- Optional public website

---

https://public.jamlogic.com/zone/ct-waterbury
JAMLOGIC PROJECT LIST AND MAP VIEW

- Interactive map and list view
- Color-coded speed data
- Real-time message display
- Communication and battery status diagnostic

JAMLOGIC DATA REPORTS

- Quick and easy custom reports, graphs and data exporting
- Sensor, sign and event history
- Monthly, weekly, daily, hourly
- 24/7 access to all real-time and historical data
- Export to Excel

JAMLOGIC PTZ CAMERA

- Stream live video of work zone
- Pan, tilt and zoom (PTZ)
- Unlimited viewer access
- Video recording available
**JAMLOGIC MOST COMMON APPLICATIONS**

**AQW (AUTOMATED QUEUE WARNING)**

Based on real-time traffic data, Queue Detection and Warning Systems automatically inform travelers of the presence of downstream stop-and-go traffic with the use of message signs positioned upstream. The benefit is that motorists can anticipate the upcoming situation and the result is reduced rear-end collisions. Successful applications have seen a reduction of up to 45% in rear-end collisions.

**TRAVEL TIME / ALTERNATE ROUTE**

Travel Time and Alternate Route applications are continuously updated automatically to provide current travel time or length of delay time between the driver’s location and a specific destination downstream. The benefit is the motoring public is informed and can make alternate route decisions. It also prevents long unexpected backups and potential rear-end collisions.

**OTHER POPULAR APPLICATIONS:**

- ZIPPER MERGE (LATE MERGE)
- VARIABLE WORK ZONE SPEED LIMITS
- TRUCK ENTRY WARNING SYSTEMS
- WEATHER CONDITION SYSTEMS

**CONTACT US FOR ANY CUSTOM APPLICATIONS**
**SPEED-MAC PORTABLE SENSOR**
- Radar, modem & GPS packaged in barricade light
- Robust/economical speed data gathering system
- Ideal for SWZ and traffic studies
- Attach to any traffic control device

**END-OF-QUEUE WARNING SYSTEMS**
Ver-Mac's Speed-Mac is designed to be set up quickly for daily lane closures, maintenance activities or nighttime asphalt paving applications. Simply attach to any traffic control device with power and point towards traffic and the Speed-Mac instantly begins gathering speed data.

The Speed-Mac will automatically autolocate other Speed-Macs to begin to sequence speed data. With an algorithm preprogrammed into JamLogic, the system will instantly begin automating messages.

Speed-Mac combined with JamLogic is a quick and simple way to provide queue warnings and inform the motoring public of unexpected delays.

---

INVEST IN JAMLOGIC FOR THE SAFETY OF YOUR WORKERS AND MOTORISTS.

---

JAMLOGIC © 2017, Signalisation Ver-Mac Inc. All rights reserved.