



**CONNECTING YOUR WORKERS AND EMPOWERING
DATA DRIVEN DECISIONS**



VER-MAC®

PROTECTING WORKERS

Sharing worker presence with the motorists

- We need to reduce worker fatalities and injuries in the work zone
- We need to inform motorists via Waze and other 3rd party navigation apps
- We need to provide advance awareness through automation, allowing drivers to adjust their driving behavior in advance



PROTECTING WORKERS

DIFFERENT REALITIES & APPROACHES

LONG-TERM CONSTRUCTION

- Larger jobs, predetermined work zone
- Traffic control in place
- Work zone can be geofenced

→ **Solution: Connected Worker Module**

SHORT-TERM CONSTRUCTION

- Smaller jobs, no determined work zone
- No traffic control in place
- Work zone can be an hour, days, or weeks

→ **Solution: Connected Worker App**



CONNECTED WORKER AUTOMATION

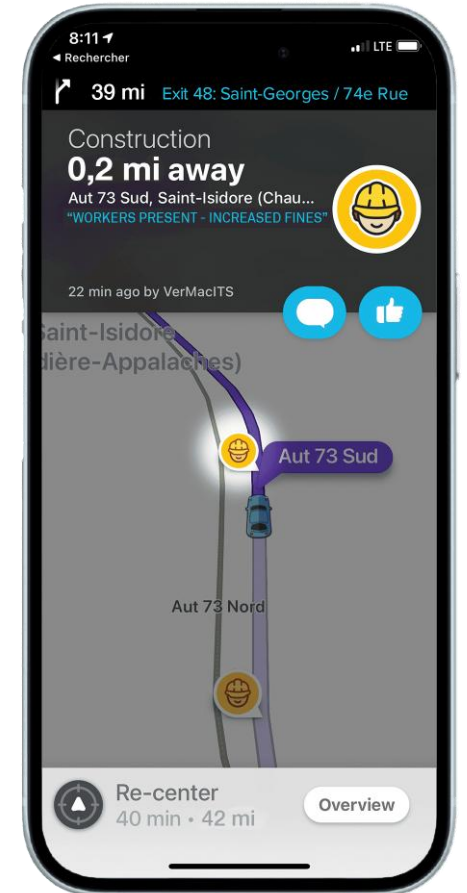
An invaluable ally for work zone synergy, management, and worker safety.

- Geofencing your work zone environment
- Automate work zone speeds and warning messages
- **ACTIVE** vs **INACTIVE** work zone triggering and tracking



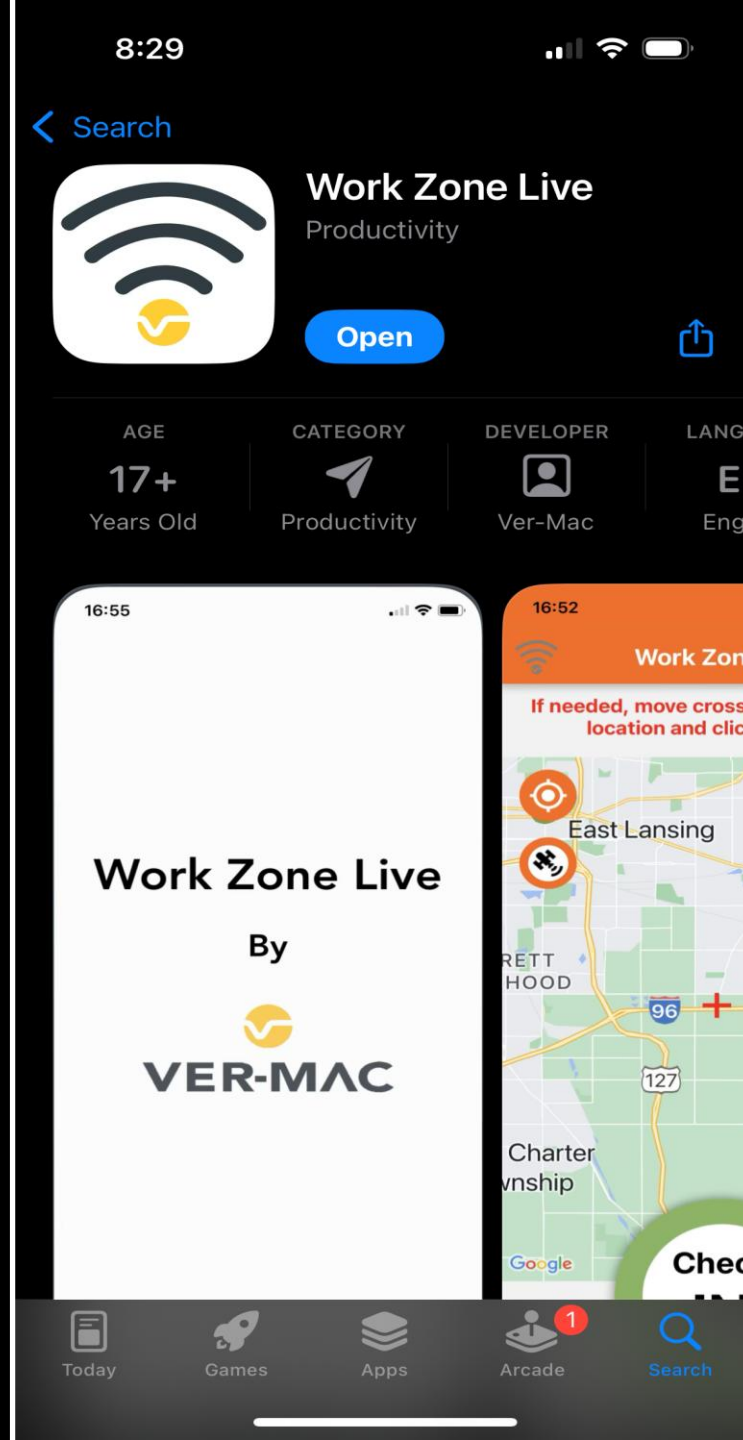
Vest for demonstration purposes (not included)

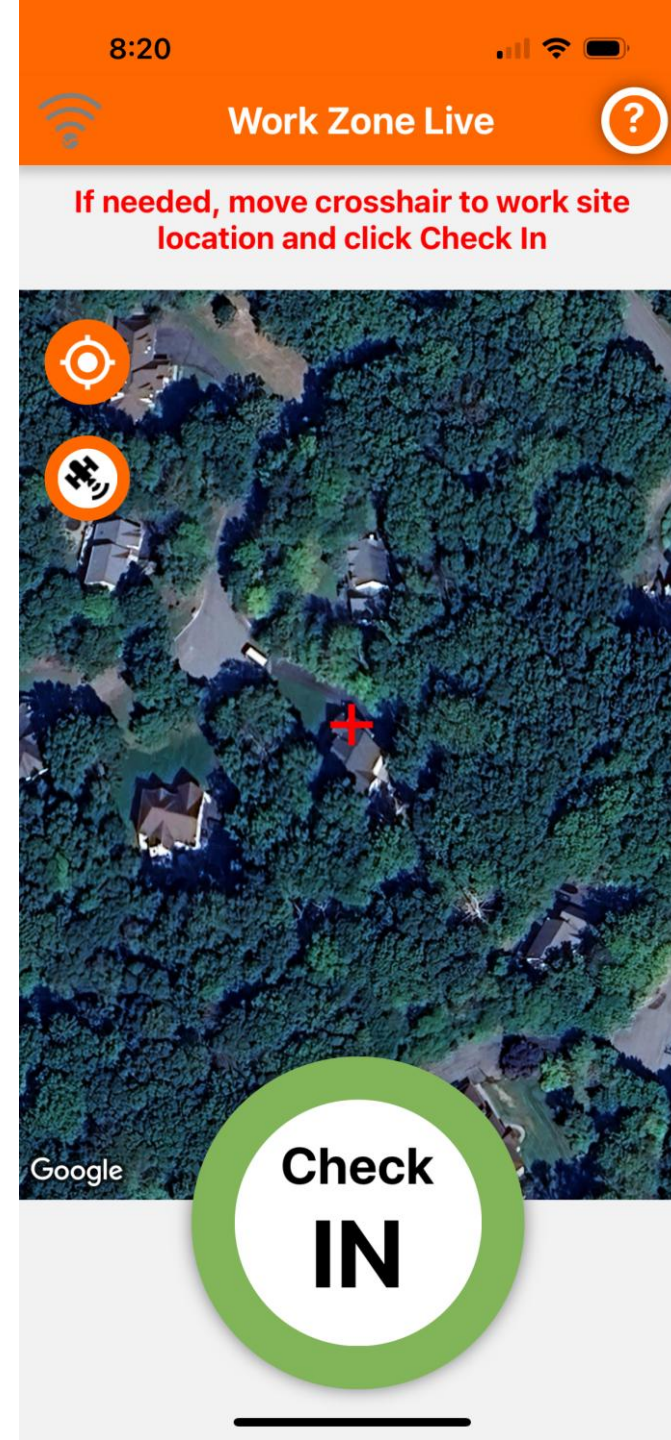
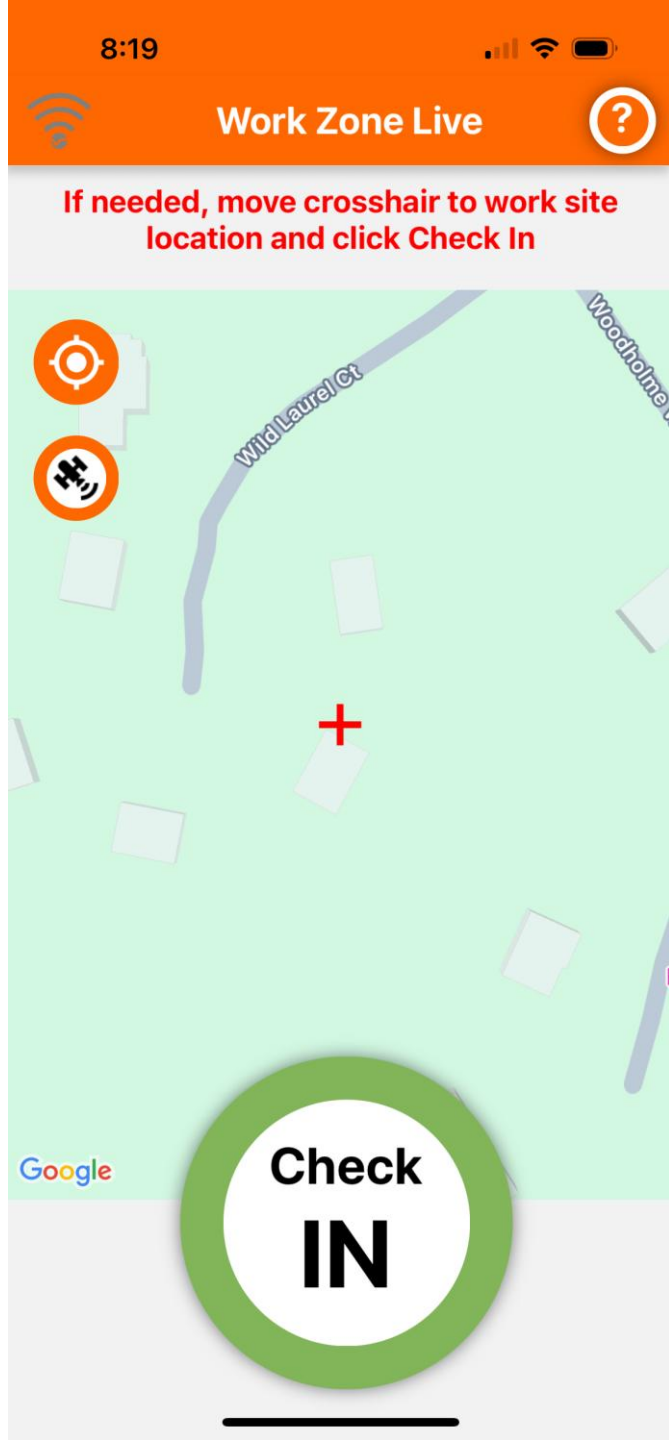
Connected Worker Module
Actual size: 4 5/8 X 3 1/8
Weight: 4.4 ounces (125g)

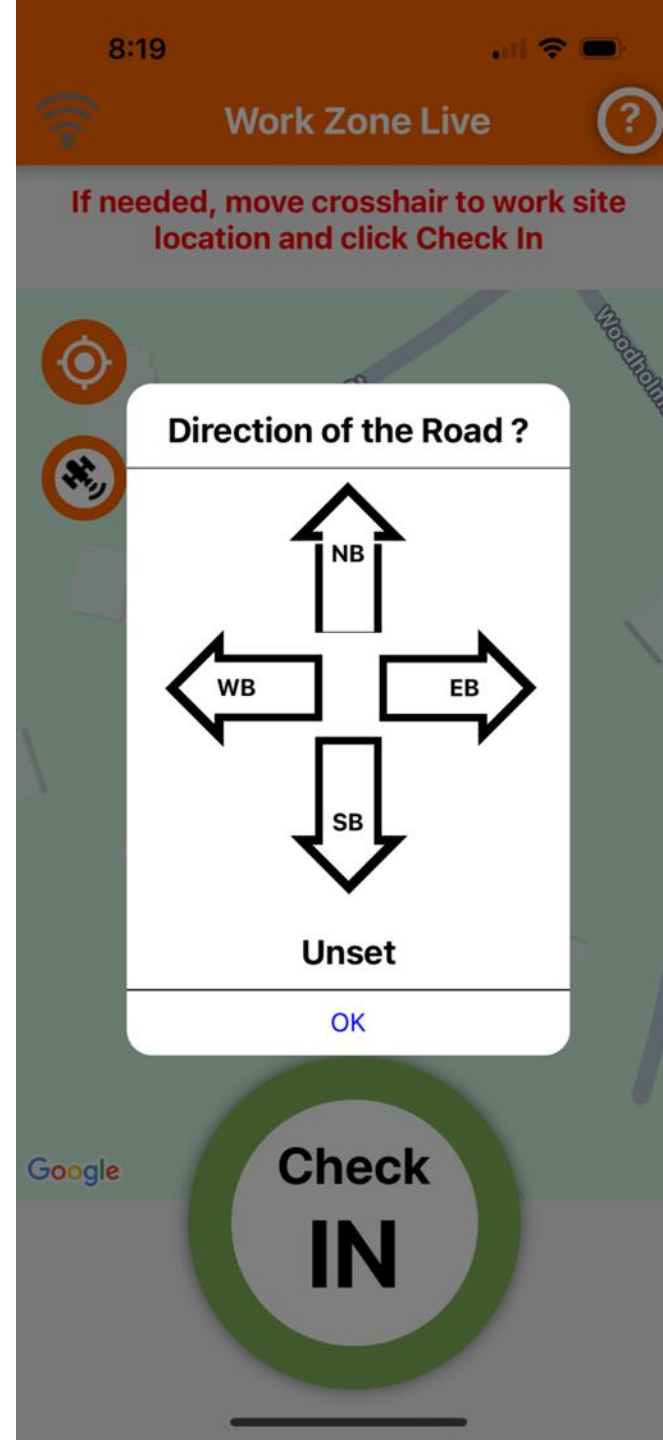
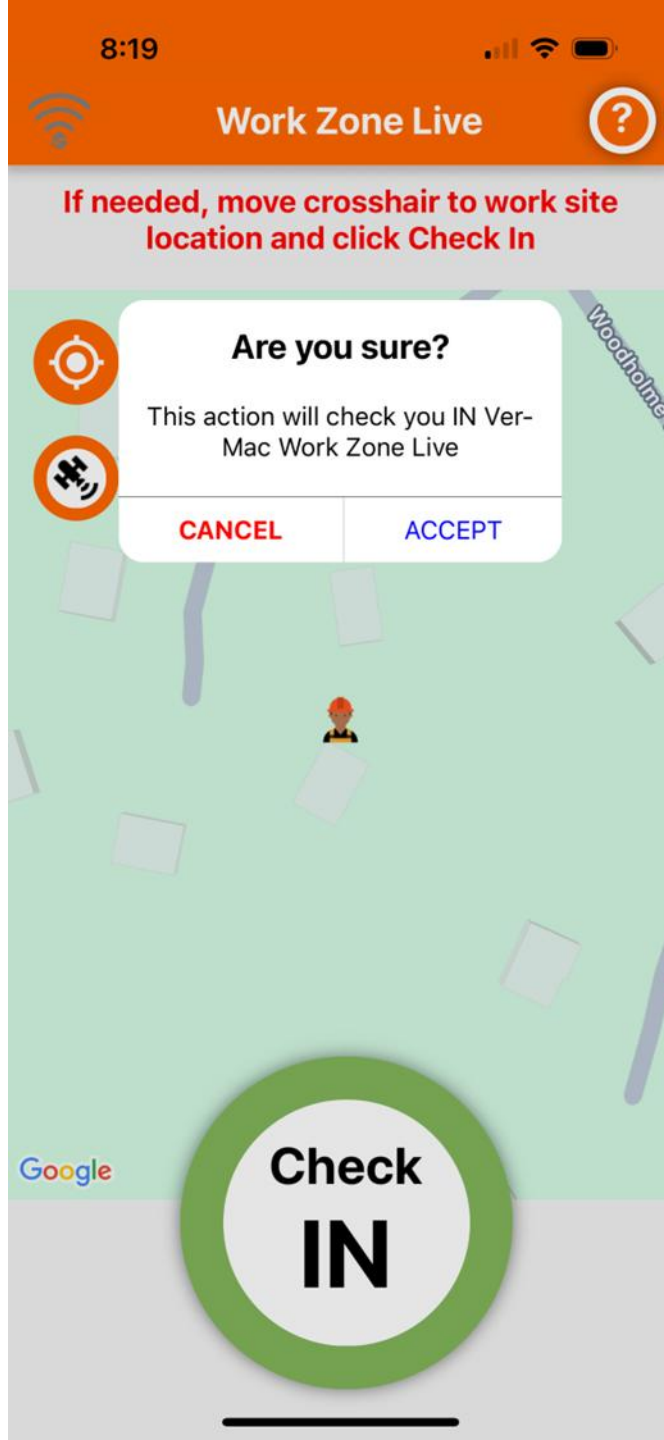


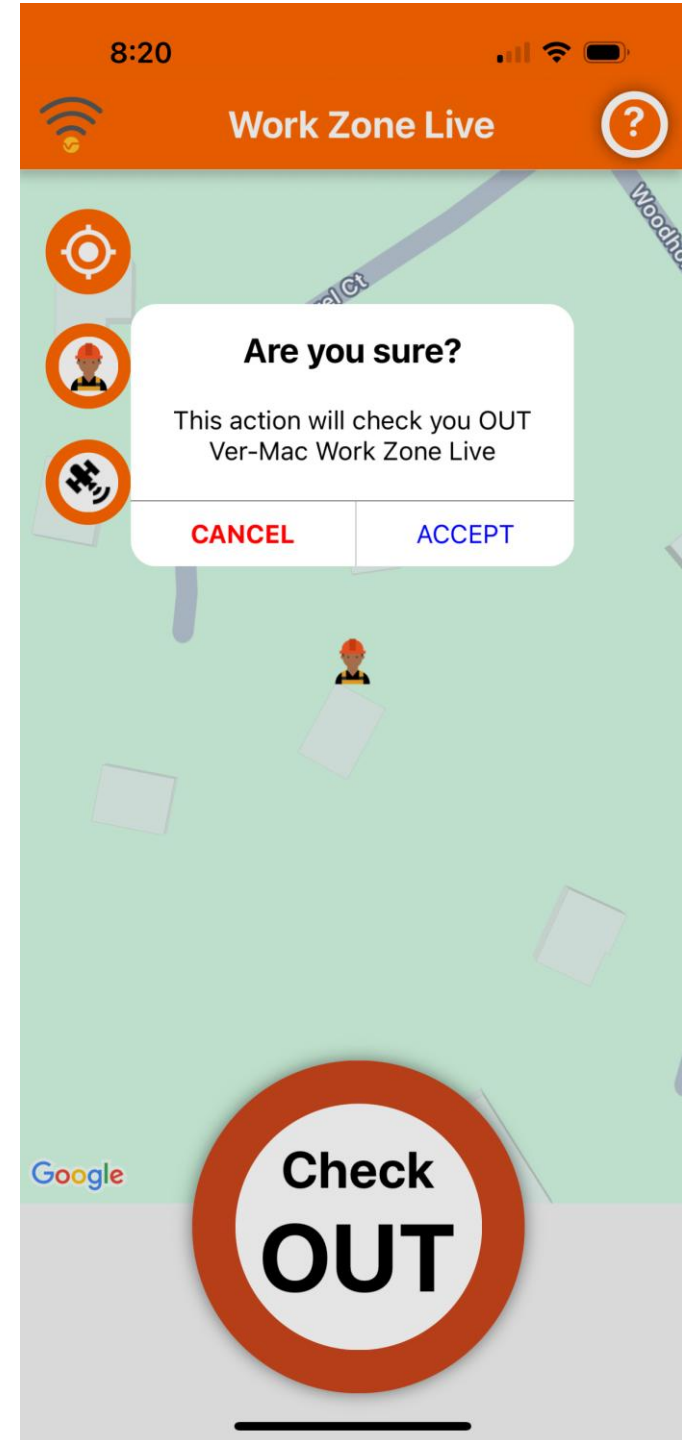
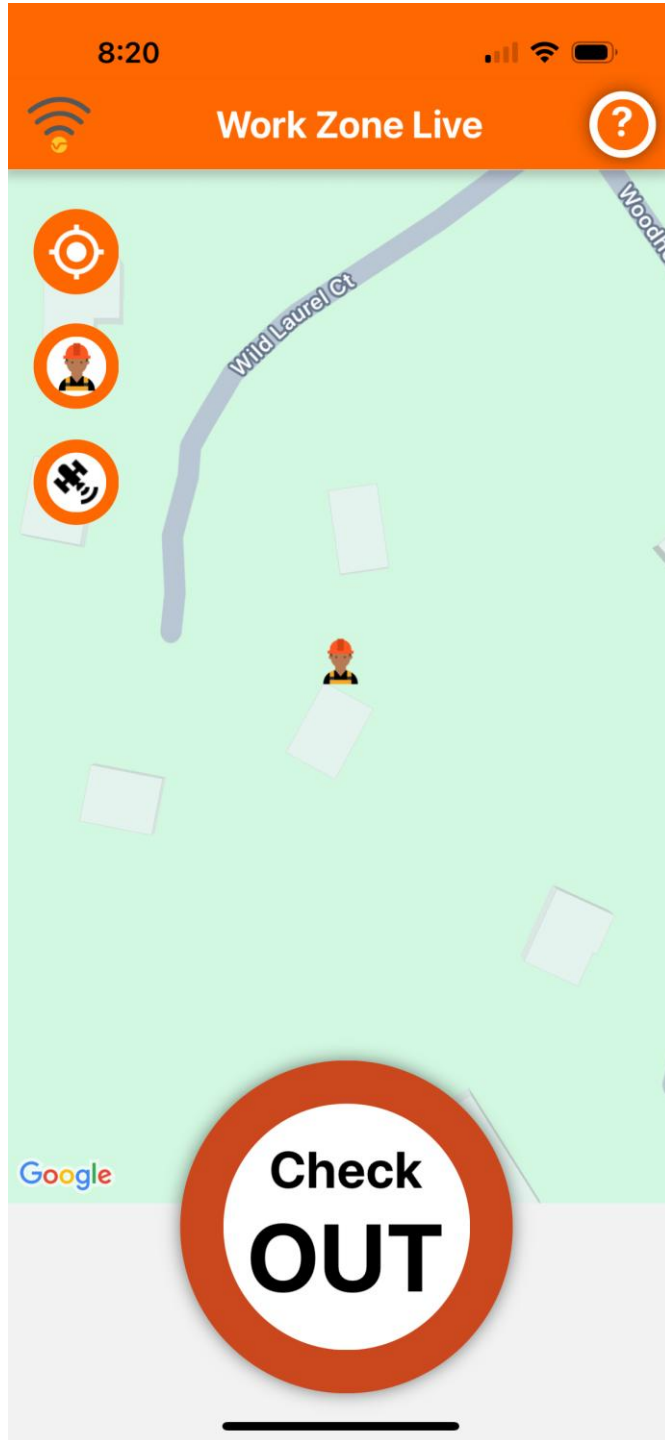
CONNECTED WORKER APP

Having the ability to actively login and
logout of your work zone









i.e. Debris Removal / Guardrail Repair / Pothole Maintenance / ITS Maintenance

Incident type

Stationary Vehicle

Select...

Vehicle-to-Vehicle Collision

Stationary Vehicle

Debris in Roadway

Work Zone Intrusion (Vehicle)

Other

Vehicle Fire

Vehicle-to-Infrastructure Collision

Vehicle-to-Vulnerable Road User Collision

Significant Roadway / Infrastructure Damage

Pedestrian in Work Zone / Theft

Medevac

DOT SAMPLE WORKFLOW MGMT CODES

The ability to customize around your specific code language

FORM 325-010-01
MAINTENANCE – 01/19
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Leave Codes

01 – Holiday	48 – LWOP, Family Resp.	64 – LWOP, Furlough
31 – Admin, Jury Duty	49 – LWOP, Family Medical	65 – Admin, Workers' Comp
32 – Admin, Witness	50 – Sick Pool	66 – Holiday, Personal
33 – Admin, Military Exam	51 – Leave, Annual	68 – LWOP, Parental
34 – Admin, Death in Family	52 – Leave, Sick	69 – Admin, Active Military
35 – Admin, Voting	53 – Leave, Family Sick	70 – LWOP, Military Training
36 – Admin, Interview/Exam	54 – Leave, Regular Comp	71 – LWOP, Enlisted
38 – Admin, Red Cross Disaster	55 – Leave, Special Comp	75 – Admin, Veterans Disability
40 – Admin, Discretionary Day	56 – Admin, Authorized Other	78 – Do Not Allow Comp Time
44-01 – Admin, School Based Mentor	57 – Admin, Military Training	80 – Admin, Child's Activities
44-02 – Admin, School Based Volunteer	58 – LWOP, Authorized	81 – Agency Plan, Regular Comp
44-03 – Admin, Community Based Mentor	59 – LWOP, Unauthorized	82 – LWOP, Active Mil. w/ Pay Suppl.
44-04 – Admin, Community Based Volunteer	60 – LWOP, Workers' Comp	83 – LWOP, Active Military
45 – Admin, Office Closure	61 – Admin, National Guard	85 – Leave, FSLA Comp
46 – Admin, Formal Investigations	62 – Admin, Educational Leave	
47 – Donated Leave	63 – LWOP, Educational	

OVERHEAD FUNCTIONS

028 – Facility Maintenance
029 – QIP/HRD
030 – Down Time
031 – Seminars and Meetings
032 – Administrative Duties
033 – Training
034 – General Office Work
035 – Project Management
036 – Travel Time
037 – Research and Development
038 – Audit Activity
039 – Legislative Matters

DOT SAMPLE WORKER WORKFLOW DATA DASHBOARD

The ability to REPORT around all
staff member work zone field
activities



A COMPLETELY CONNECTED ECOSYSTEM

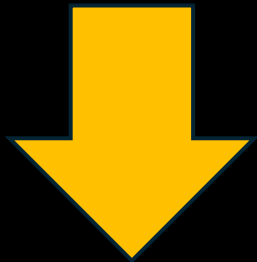
Connecting your workers empowers users with the ability to AUTOMATE and ACTIVATE all types of traffic control equipment:

AUTOMATED Speed Reduction

AUTOMATED PCMS Messaging of Worker Presence Ahead

AUTOMATED FLAGGER Presence Ahead

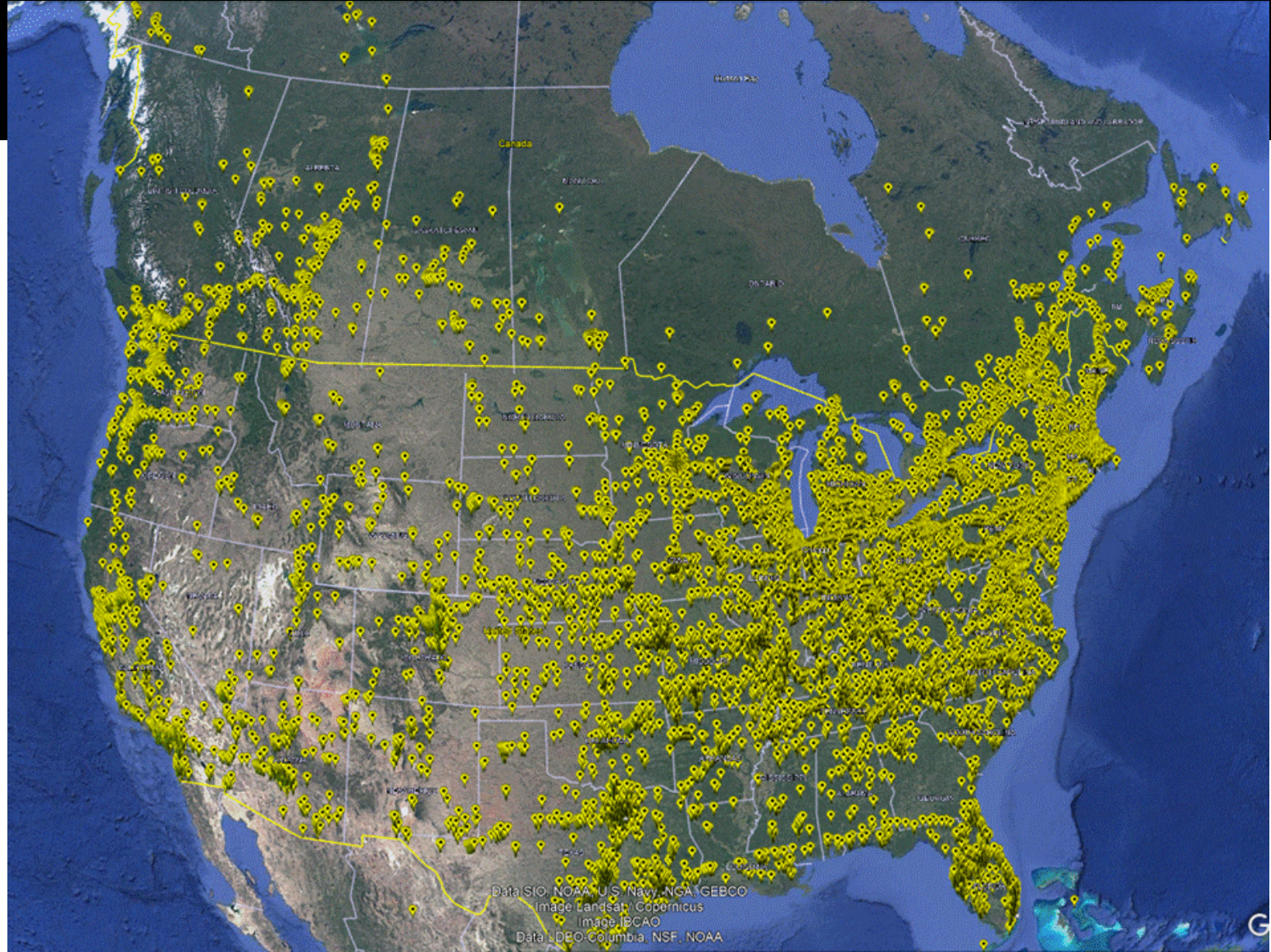
CONNECTING Lane Closures



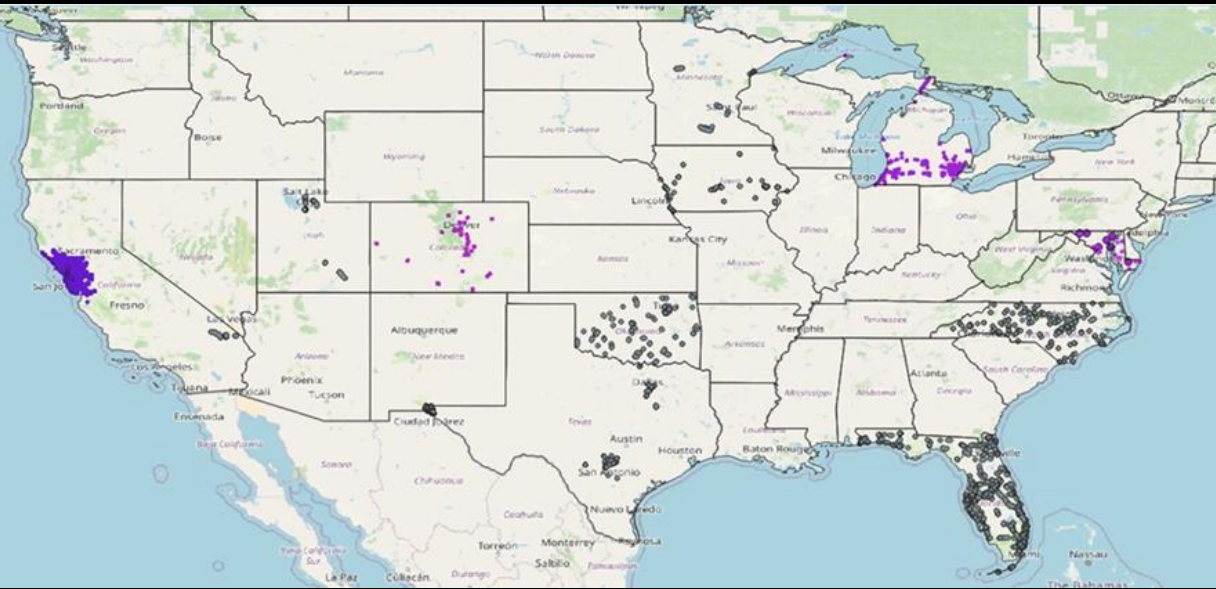
VER-MAC CONNECTED EQUIPMENT: SNAPSHOT

Map showing connected
equipment in 2025

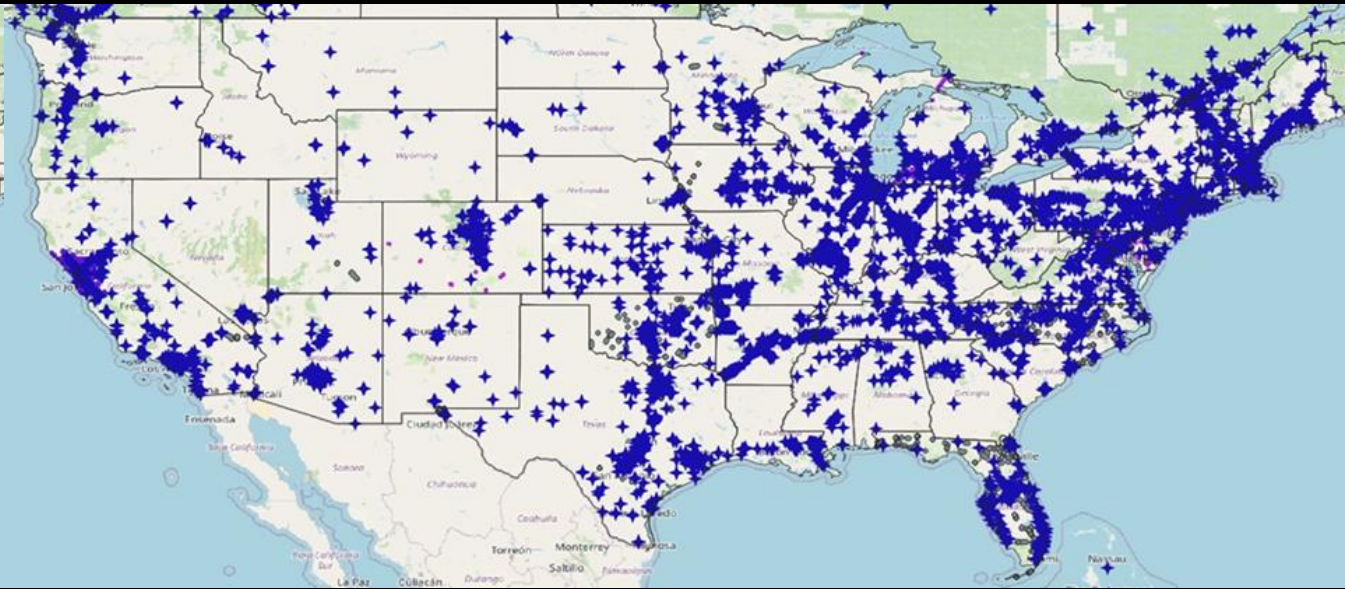
**>45,000 connected Ver-Mac
devices in North America**



FINDING THE SOURCE OF TRUTH FOR WORK ZONES



Situational awareness from public feeds



Situational awareness from private feeds

VER-MAC CONNECTED WORK ZONES INCREASE DRIVER AWARENESS



Ver-Mac Waze alerts grab driver attention — and their positive feedback proves it. The result? Greater awareness and safer work zones.

45,000

45,000+ work zone warning
from Ver-Mac devices*

5M+

5 Million+ warnings received by
Waze users*

3M
60%

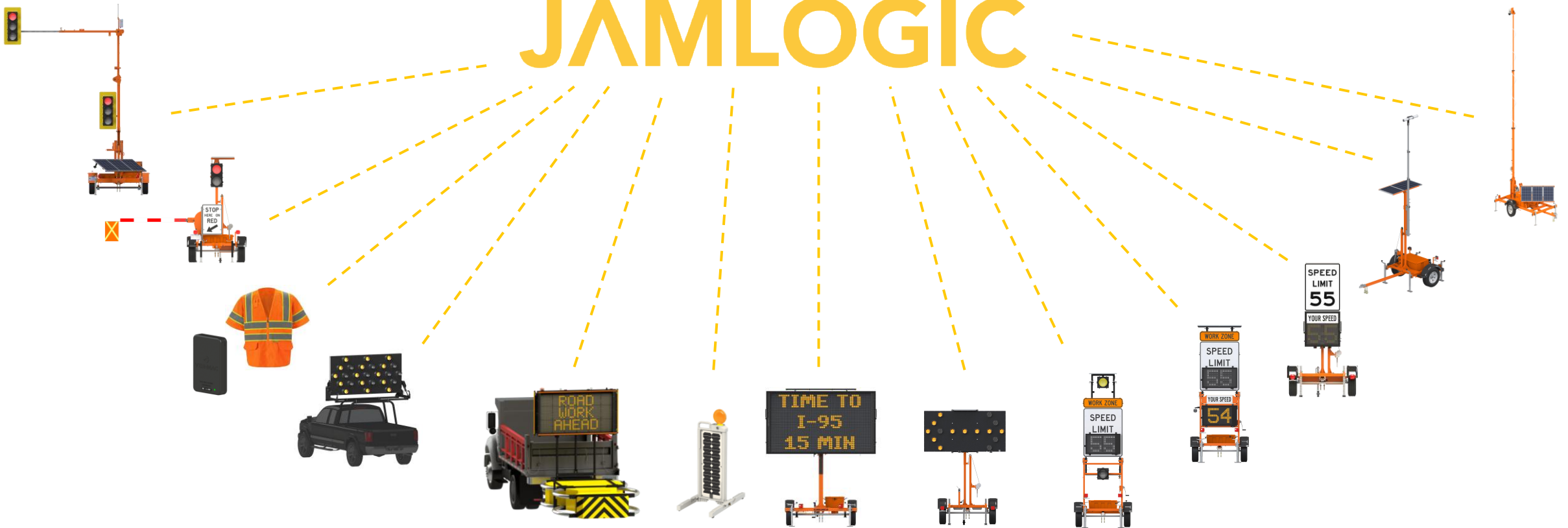
3 Million (60%) warnings
received thumbs up
by Waze users*

ALL VER-MAC EQUIPMENT IS NOW CONNECTED

Know the status, location & health of your fleet



JAMLOGIC

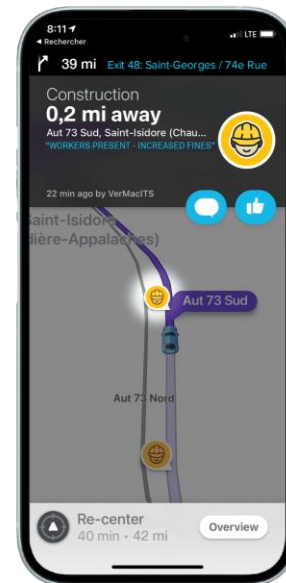


WAZE ALERTS FROM VER-MAC EQUIPMENT



Ver-Mac Detailed Text and Audio Alerts**

Connected AB	➔	Prepare To Merge Left/Right
AFAD	➔	Flagger Ahead Prepare to Stop
Traffic Signals	➔	Temporary Traffic Signal Ahead
WZ DSL	➔	Work Zone Speed Limit + Speed
Speed Wizard	➔	Work Zone Speed Limit + Speed
WZ Start Marker	➔	Entering a Work Zone Stay Alert
WZ End Marker	➔	You Are Leaving the Work Area



Alerts on Waze



Alerts in connected vehicles

****Waze user must click on Waze Construction Icon in app to get detailed text alerts. Go to Settings to activate audio alerts.**

ARROW BOARDS

Indicate lane closures on the road and online

Complete product line

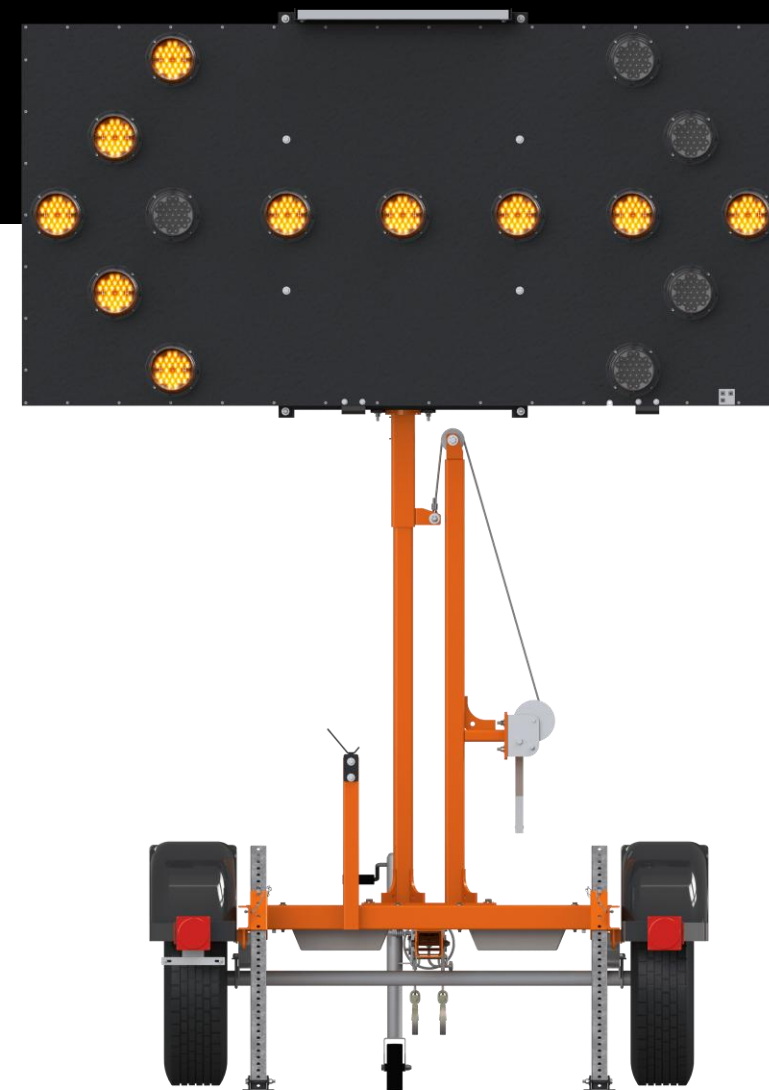
- Trailer & truck mounted
- Different sizes and options

All Ver-Mac Arrow Board Trailers are Connected

- Audible and visual alerts are automatically sent to Waze, letting motorists know which upcoming lane is closed

Universal Connected Retro Kit

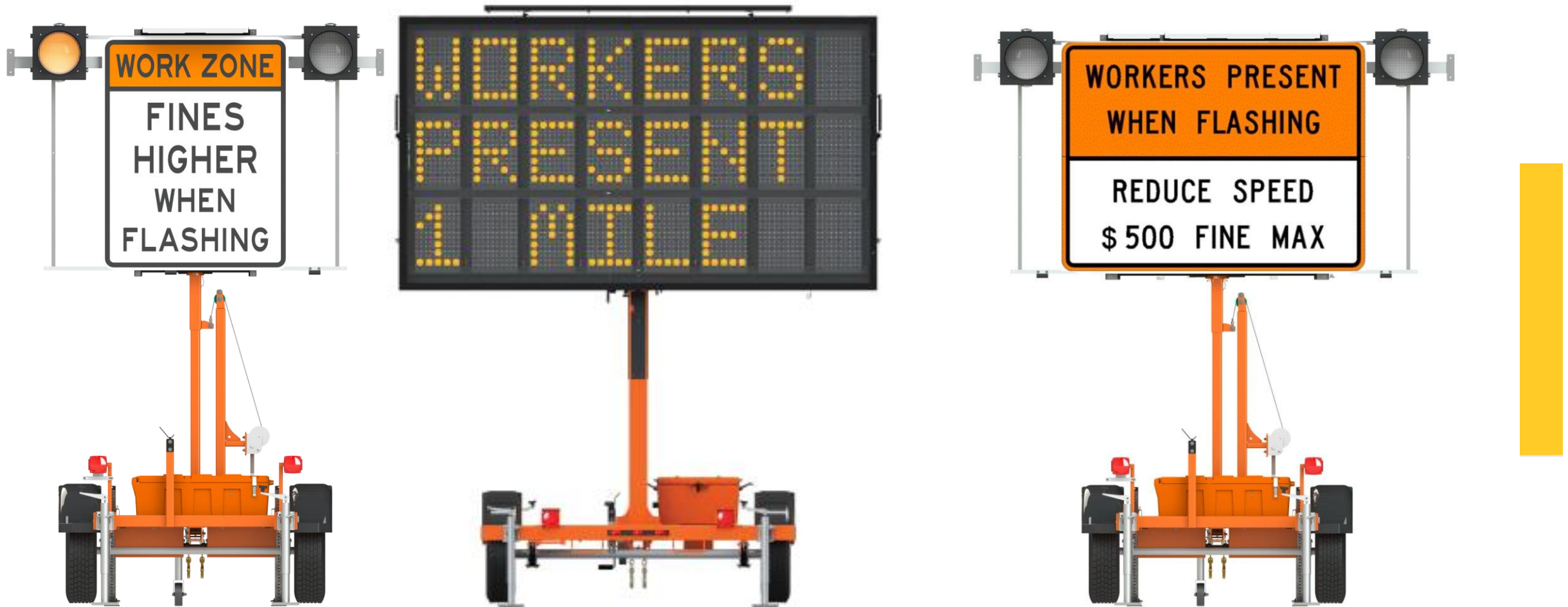
- Connect any manufacturers' arrow board trailer



Trailer-Mounted Arrow Board

Visual Awareness

Alert Drivers – Increase Awareness

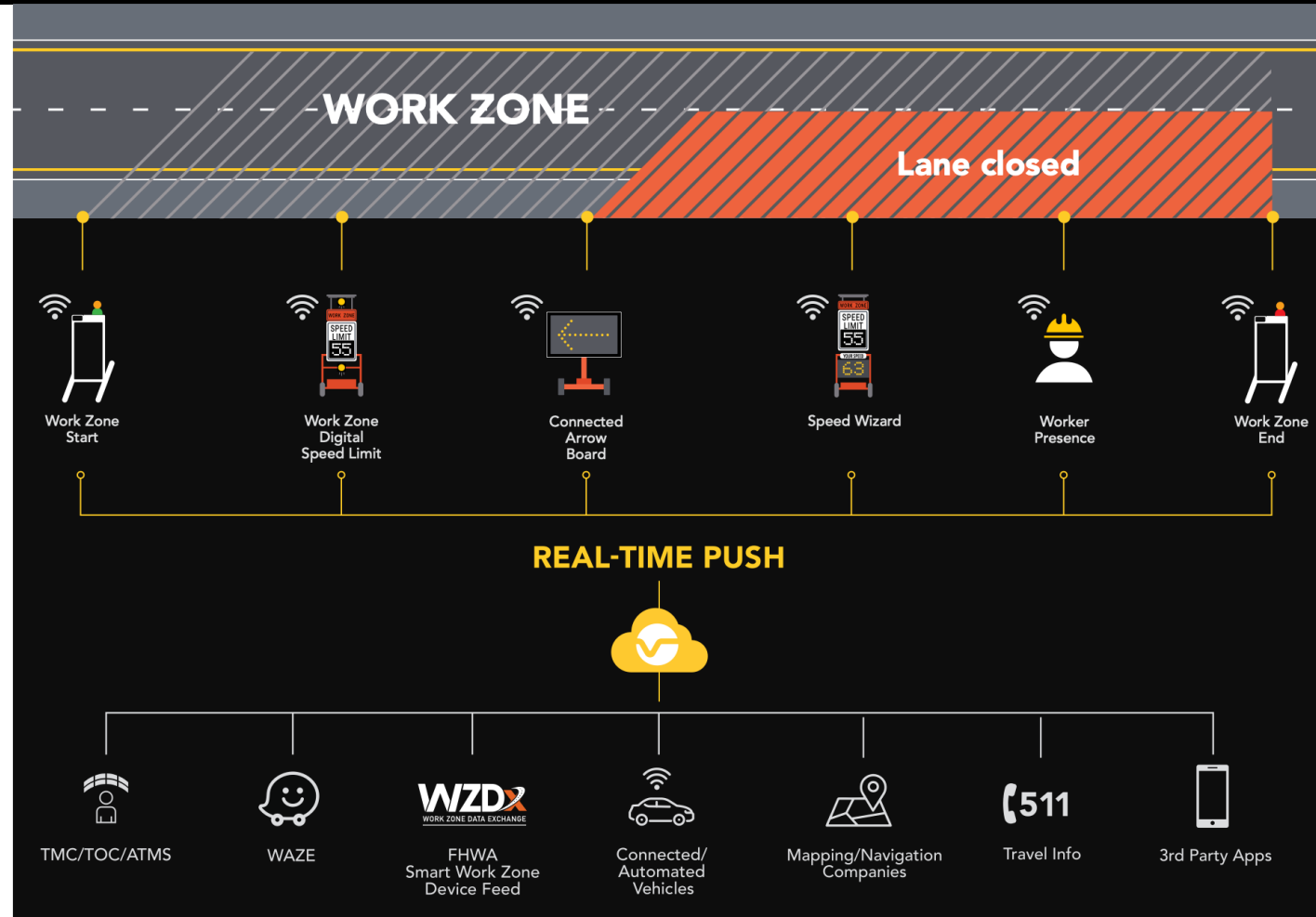


AUTOMATED WORKER PRESENCE ALERT SYSTEM

NOTIFY DRIVERS, DOTs & OTHER 3RD PARTIES OF CRITICAL WORK ZONE DATA IN REAL TIME

System Notifications

- Start of work zone
- Current work zone speed limit
- Active lane closures
- Active worker in work zone
- End of work zone



AFAD

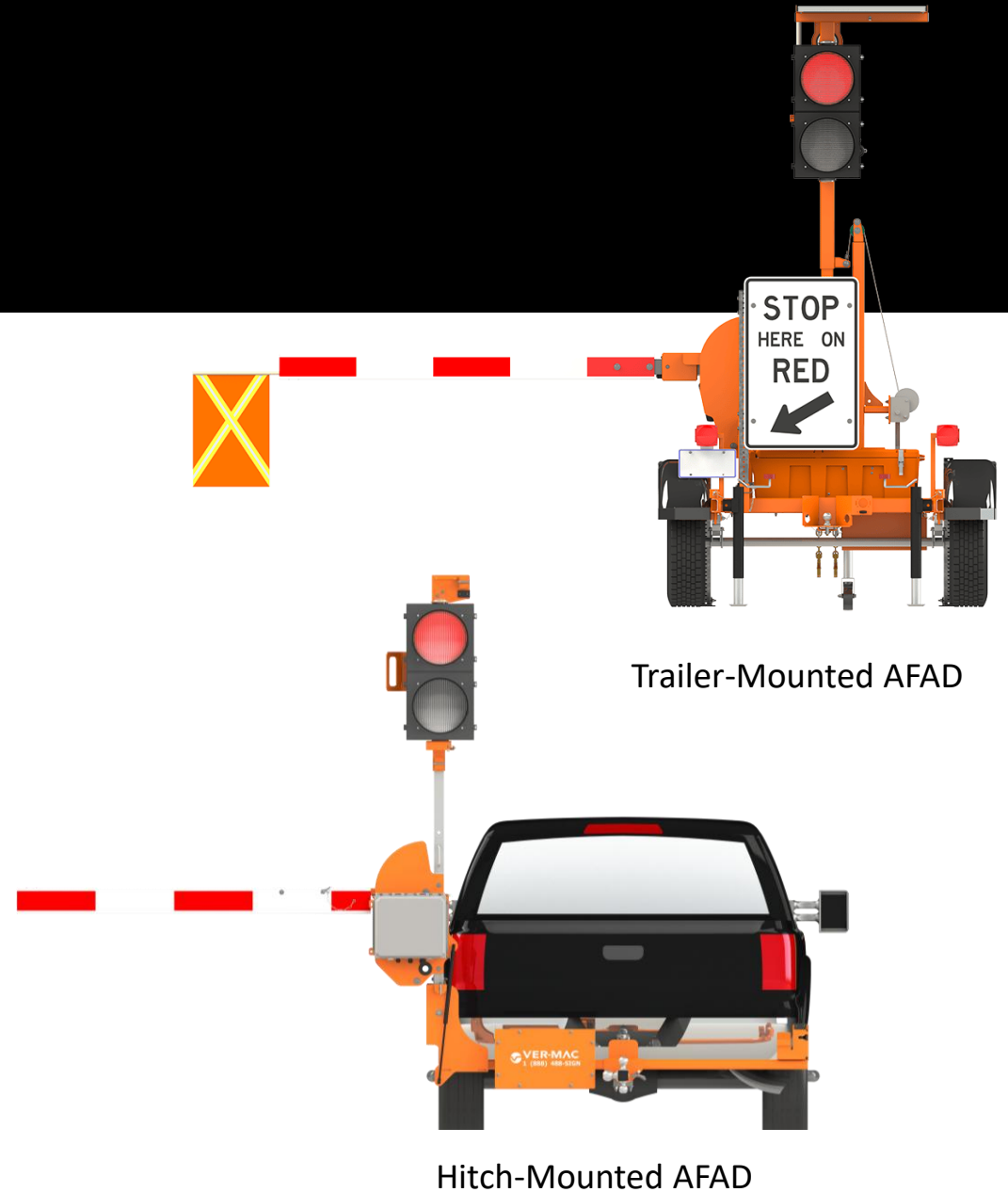
Keep flaggers out of harm's way

Automated Flagger Assistance Device (AFAD)

- Nested or tandem towing
- Each unit equipped with V-Touch Controller with modem/GPS and robust handheld remote
- State-of-the-art communication for maximum reliability
- Telescopic breakaway gate

Options

- Incident camera recording system
- Intrusion alarm



DIGITAL SPEED LIMITS & SPEED WIZARDS

Dynamic speed management

Digital Speed Limit

- Real-time awareness of work zone speed limit via two-digit display and flashing beacons
- Enhanced speed harmonization & compliance

Speed Wizard

- Real-time digital speed with motorist speed feedback
- Slow speeds when workers are present

Remote access to monitor and retrieve data



Speed Wizard



DSL

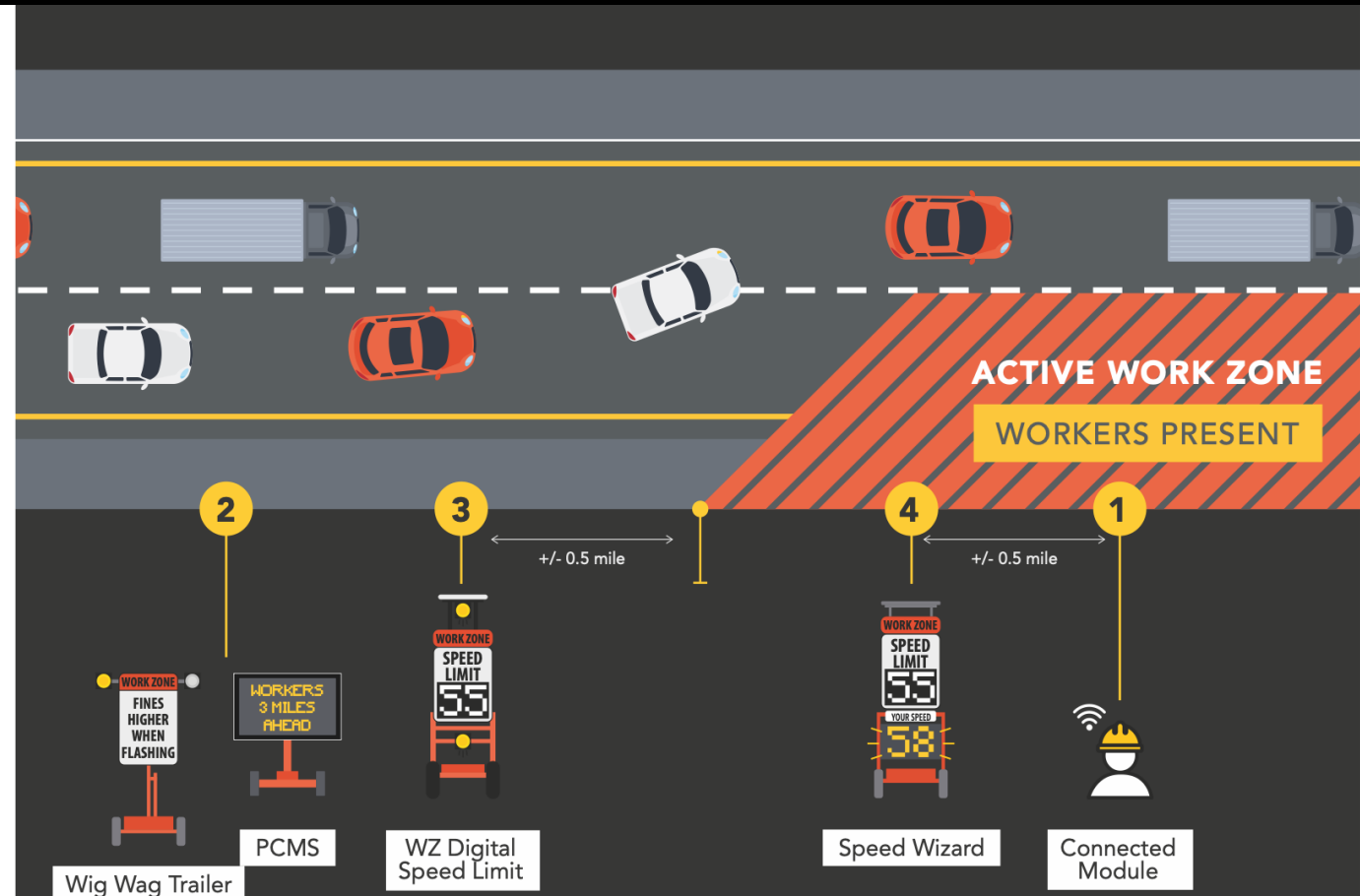
AUTOMATED SPEED REDUCTION WHEN WORKERS ARE PRESENT

SPEED REDUCTION WHEN WORKERS ARE PRESENT

Speed limit lowers when connected workers are detected in the WZ.

System activates automatically.

1. **Worker** is detected via **Connected Module**
2. **PCMS** displays Workers Ahead
3. Wig Wag activates, displaying Fines Doubled
4. **WZ speed** is displayed, **beacons** start **flashing**
5. **WZ speed** and **speed feedback** displayed on Speed Wizard



MESSAGE SIGNS

Communicate messages simply & effectively

**#1 Portable Changeable Message Sign
Supplier in North America**

Complete product line

- 3-line
- Full-matrix
- Different sizes and options



Trailer-Mounted Message Sign



Message Sign for Scorpion Attenuator