



## 2017 Fall VAA Conference

Richmond, VA | November 2, 2017

## Work Zone Safety Technology

*Lee Cole  
Oldcastle Vice President EH&S*

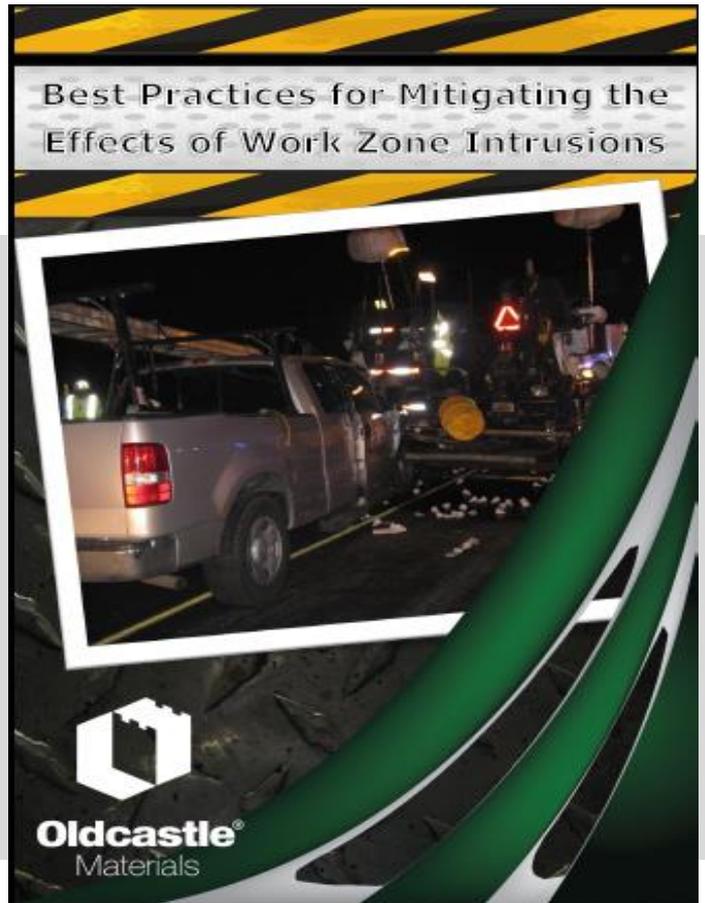
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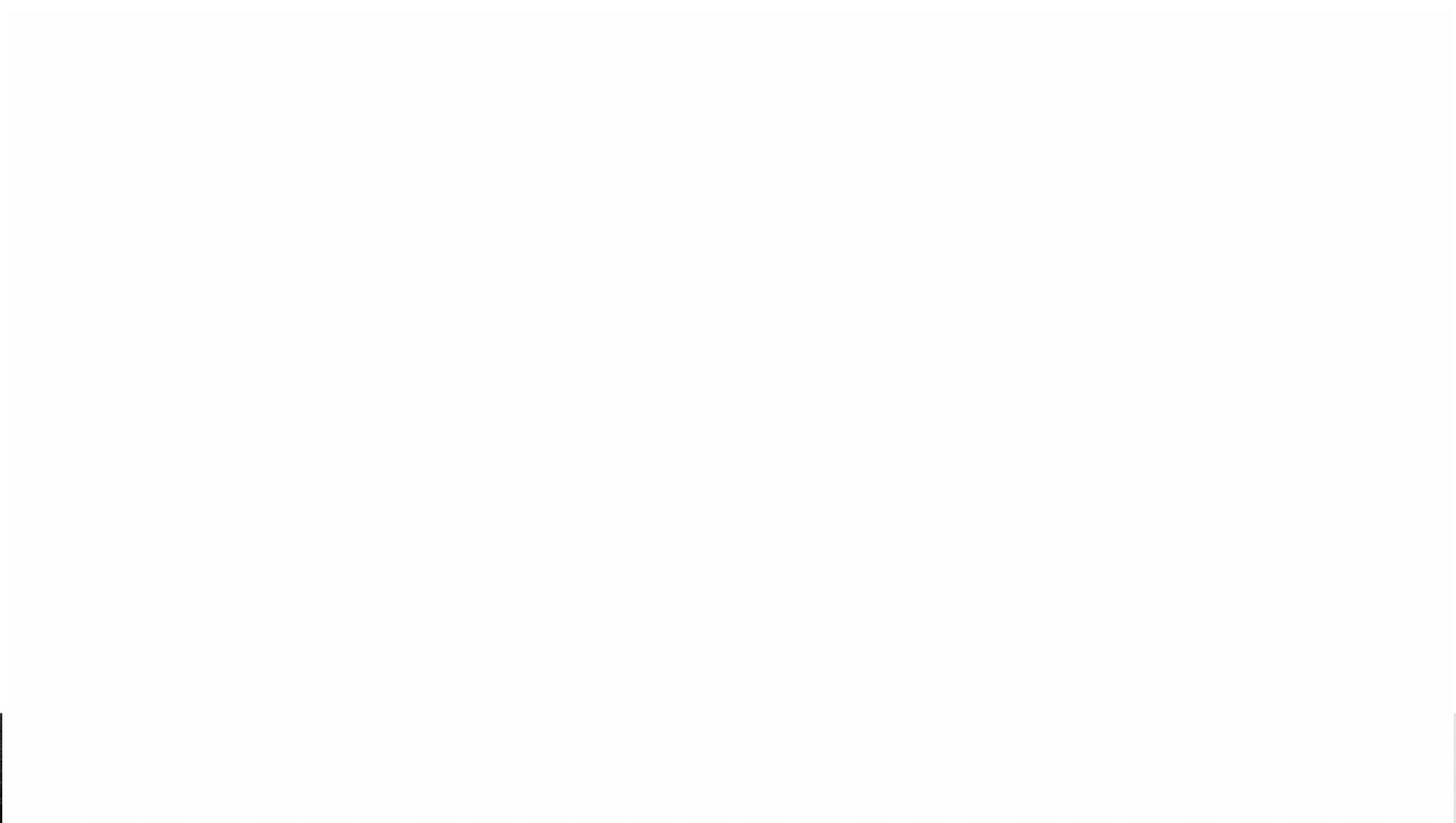


# Mitigating Risks

<http://www.workzonesafety.org/data-resources/wz-intrusion-prevention/>

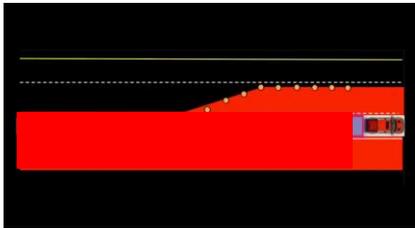
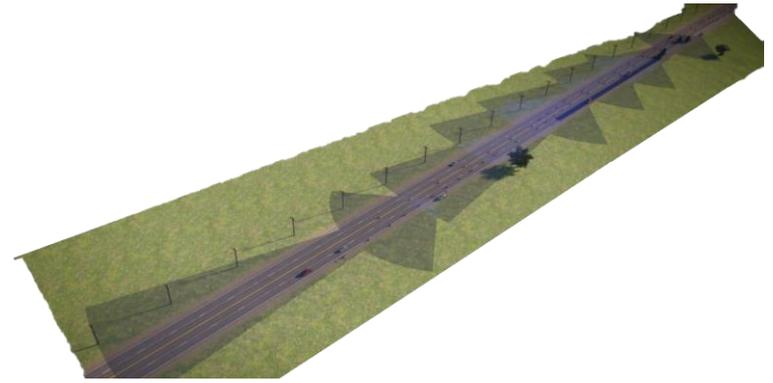
- ⚠️ National Efforts
  - ⚠️ Legislation
  - ⚠️ Public Education
  - ⚠️ Trade Associations
  
- ⚠️ Local Efforts
  - ⚠️ Compliance
  - ⚠️ Training
  - ⚠️ Innovation
  - ⚠️ State associations and DOT's
  - ⚠️ Best Practices



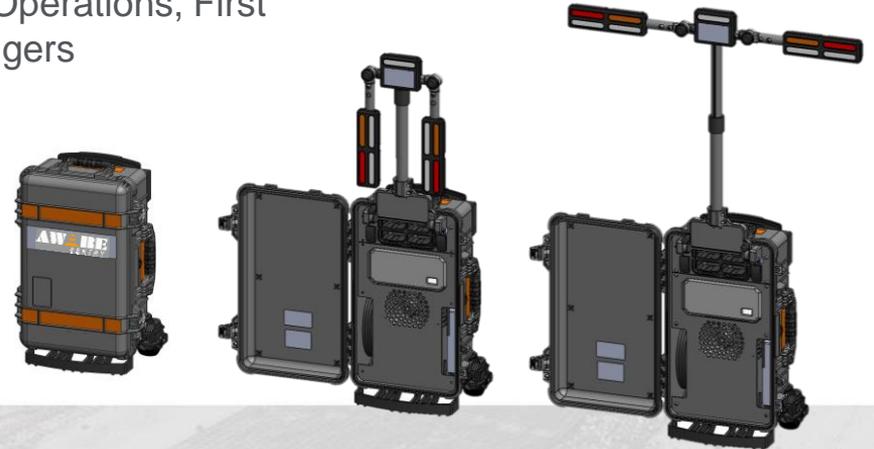


# 3 Basic Applications

- Active Work Zones – Paving, Milling, or Construction Operations within (non-protected) lane closure



- Merge – MOT (cone) Trucks, Striping Operations, Sweeping Operations, First Responders, Road Rangers



- Stationary Situation – Flagging Station, Maintenance Crews, Lone Worker



# AWARE Road Map



## 2016 Pilots - 8 States / 15 Crews

- System Works
- Lessons Learned
- Needs to be easy to use/install
- Needs to provide feedback



# Lane Intrusion Detection

*NY Thruway*



2016-07-16 07:27:38  
1468654058.886191

**AWAIRE**

 **Oldcastle** Materials

**CRH**

# AWARE SENTRY (Flagger Cart)



Alert

Total
<b>2</b>

Total Lights or Siren

<b>2</b>
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Radar

Oncoming Track Count
<b>776</b>

Footpedal

Is Pressed?
<b>True</b>

Settings

Heading: <b>152.0</b>
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Map

402.22 mph  
(647.11 ft)

223.22 mph  
(359.09 ft)

Sep 27 2016, 12:39:49.137 1474979989.13721

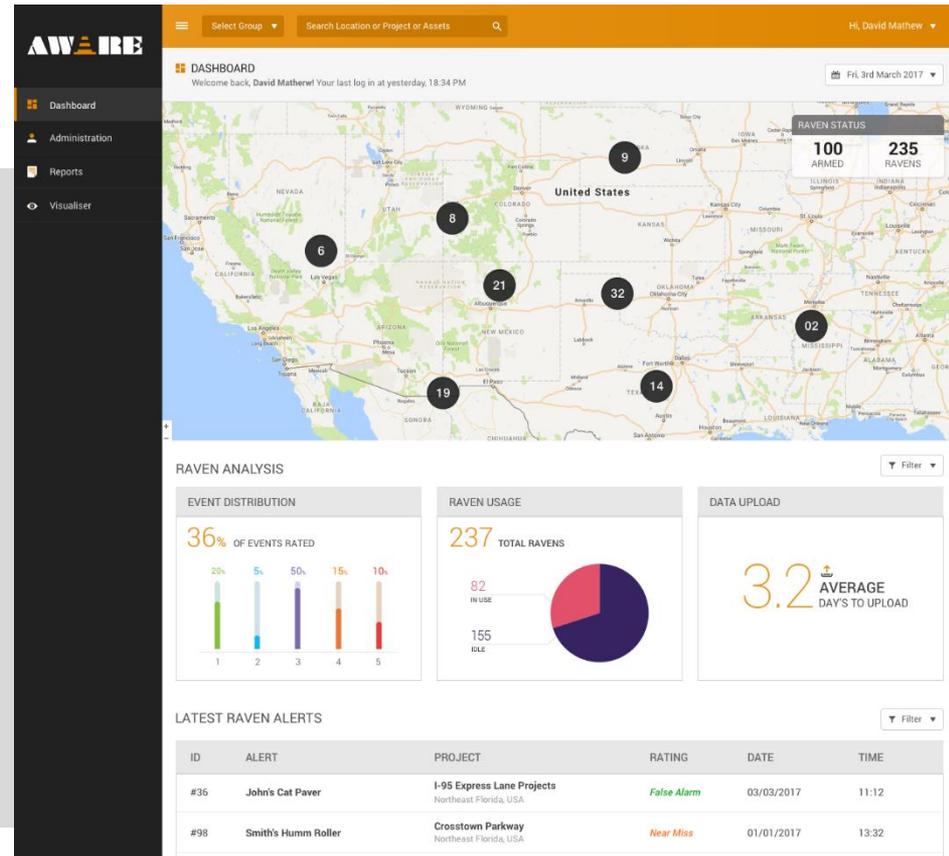
## Muscle Shoals, Alabama



# AWARE BASE STATION

## Mobile, Web App & Database

- Easy log in and UI on iOS or Android phone or tablet
- Select /Assign Project – Map or list View
- Real Time Event Data and Alerts
- Near time visualizations tools
- Inventory Control & Management
- Scalable Hierarchy (customizable)
- Full Admin functionality
- Performance Metrics and Protected Zone Overview
- Clickable User Feedback during Development



Web App Dashboard



# AWARE SENTRY

- ⚡ Lighten the Weight (>50lbs)
- ⚡ Increase light height and visibility
- ⚡ Smaller more portable case
- ⚡ Quick easy Set Up
- ⚡ 15 Hours Battery Life



Proof of Concept



Prototype



New SENTRY

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**Thank you!**

