

VITAL FEW MOBILITY FINDINGS









VITAL FEW MOBILITY TASK TEAM CHARGE

How can FDOT move the needle on mobility?

METHODS SUB-COMMITTEE FOCUS

What approaches are successful and promising?

OPPORTUNITY IDENTIFIED

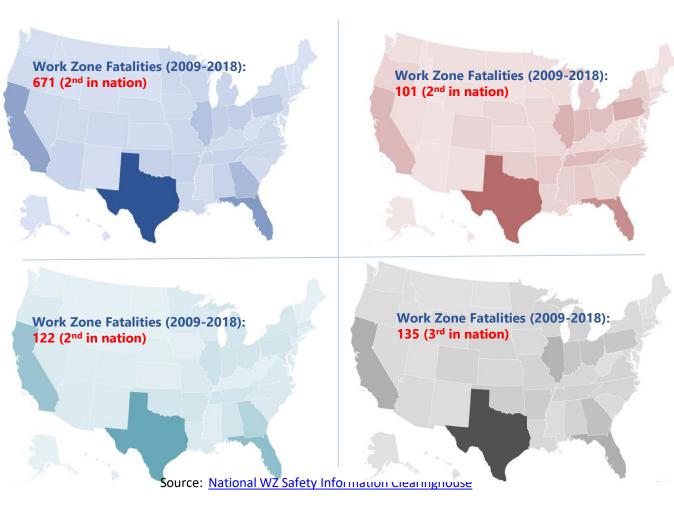
Work Zone Program

RECOMMENDATION 2.3

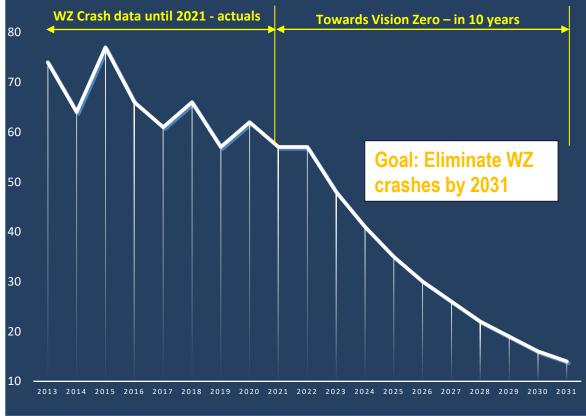
Develop an Active Work Zone Management Action Plan

Florida's Statistics and Goals



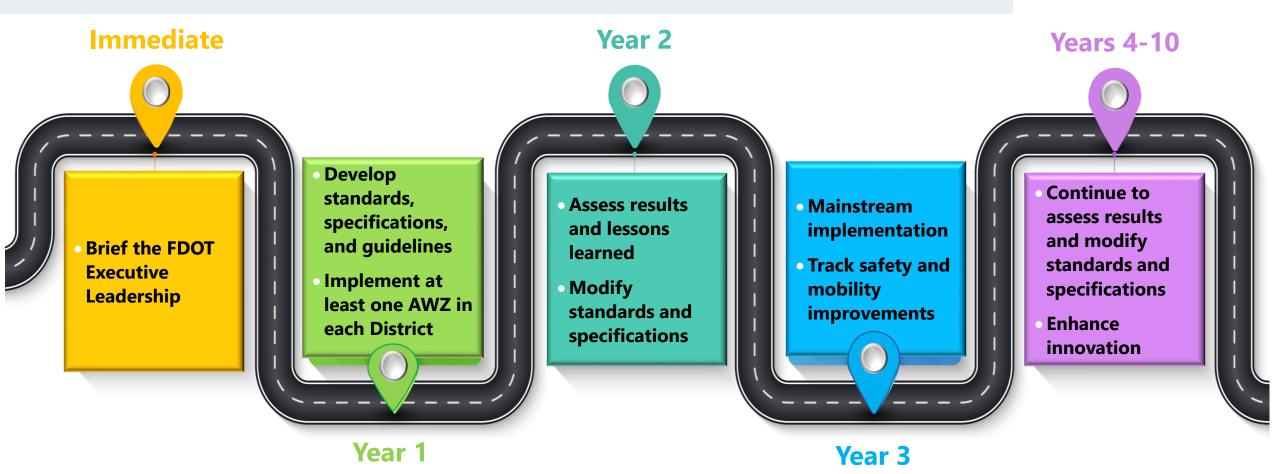


Florida's State Highway System: Fatalities in Work Zones								
	2013	2014	2015	2016	2017	2018	2019	2020
Crashes	74	63	67	66	61	66	57	62



Objectives and Timeline

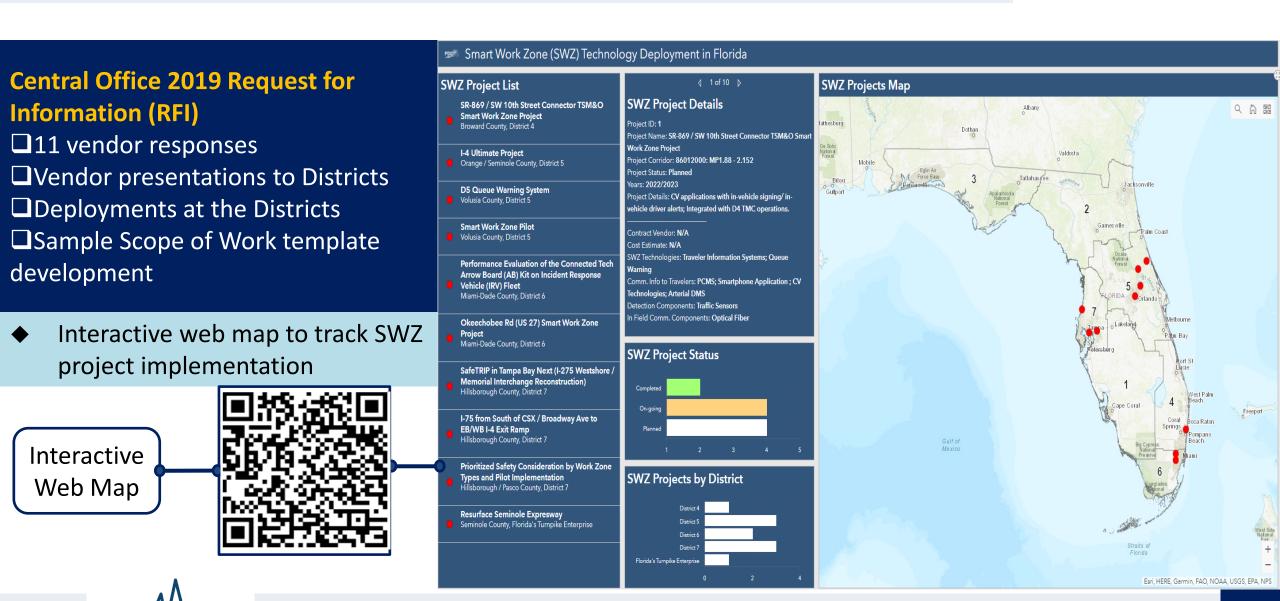




- Form an AWZM Task team
 - ☐ Lead implementing AWZM objectives
 - ☐ Representatives from key functional areas

Statewide Implementation



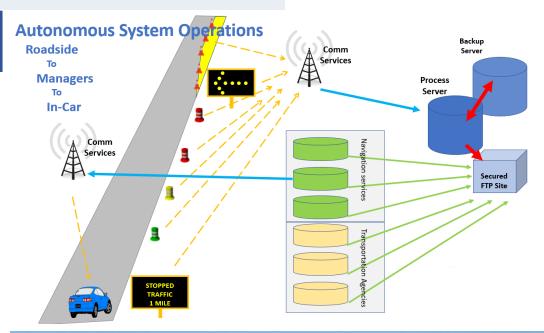


Best Practices

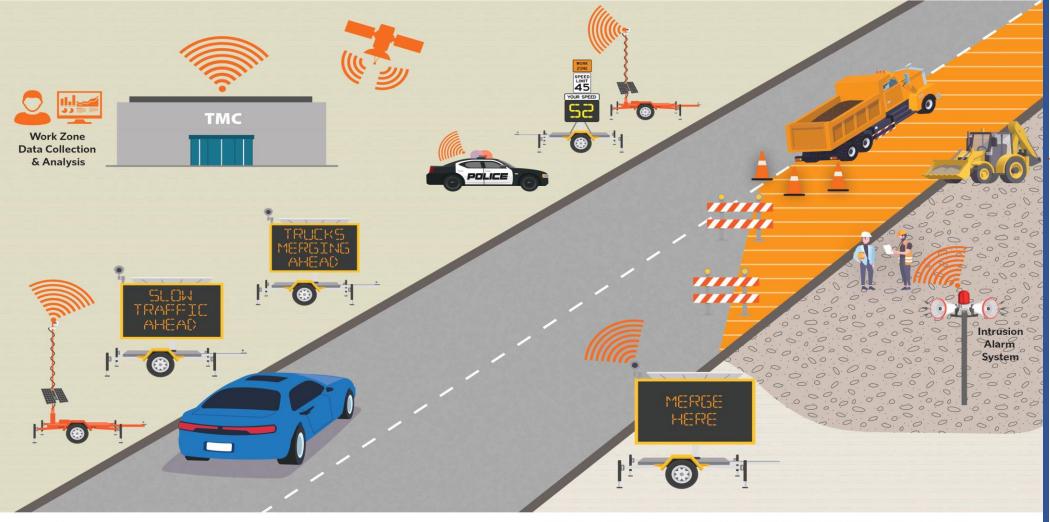


Active Work Zone Management Applications

- ✓ Traveler Information Systems: real-time travel conditions
- ✓ Queue Warning Systems: slowed or stopped traffic warning
- ✓ Dynamic Lane Merge Systems: advance lane merge
- ✓ Dynamic/Variable Speed Limit Systems
- ✓ Work Zone Data Collection Technologies
- ✓ Location Technologies: location of the work zones
- ✓ Intrusion Detection/Alarms: alerts workers







Active

Work

Zone

Management

LEGEND



ACTIVE WORK ZONE MANAGEMENT SYSTEM AND COMPONENTS

Dynamic Lane Merge System

Traffic Detector
Portable Changeable Message Signs

Construction Equipment Entering/Exiting System

Traffic Detector
Portable Changeable Message Signs
Optional Signage (with Flashing Beacons)

Queue Warning System

CCTV Camera Traffic Detector Portable Changeable Message Signs

Dynamic Speed Limit System

Traffic Detector Speed Feedback Trailer

Travel Information System

Traffic Detector
Portable Changeable Message Signs

Work Zone Intrusion Alarms

Traffic Detector Portable Changeable Message Signs Barriers Sirens or Horns

Concept Layout

Strategies, Scoring, Solutions and Performance



AWZM Strategies

Traveler
Information
Systems

Queue Warning Systems

Dynamic Lane Merge Systems Variable Speed Limit Systems

Work Zone Data Collection Technologies Work Zone Location Technologies

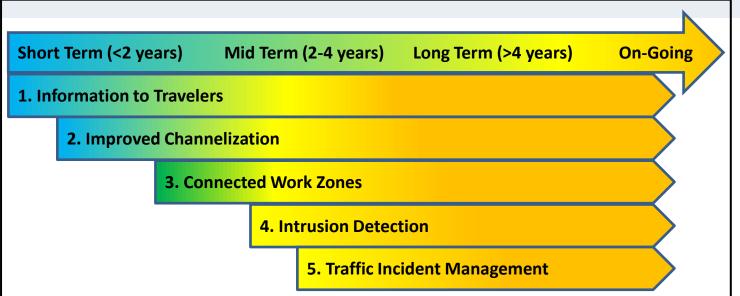
Work Zone Intrusion Alarms Entering/
Exiting Vehicle
Notification

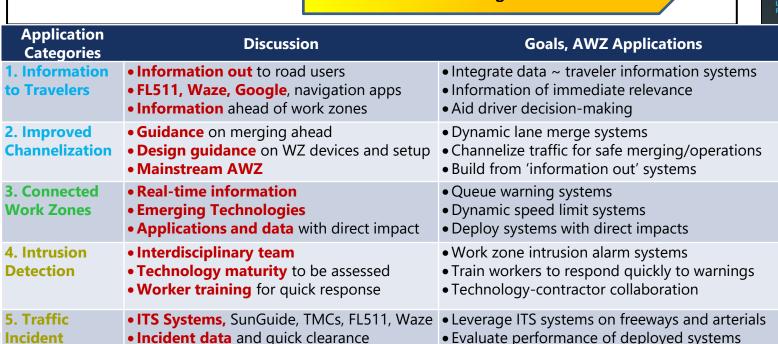
Incident Management





AWZM Implementation Priorities

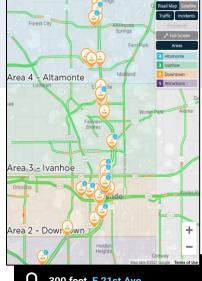


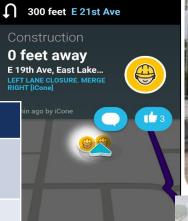


Synergize TIM and AWZM approaches

• TIM Strategic Plan, RRSP, RISC

Management











Action Items



Action Items

- Develop Active Work Zone Management Action Plan Complete
- Form a SMART AWZM Task Team
- Develop Developmental Design Criteria (FDM)
- Develop Developmental Specification (Standard Plans and Specifications)
- Implement the AWZM Action Plan
- Deploy SWZ Applications
- Track the Performance of SWZ Applications
- Conduct Public Education Campaigns
- Industry Outreach and Collaboration
- Finalize FDM Update for SWZ Applications
- Finalize Standard Specification Updates for SWZ Applications
- Finalize Standard Plans Updates for Inclusion of SWZ Equipment
- SMART Task Team Brief the FDOT Leadership Periodically



Asks from the Leadership

- 1. Approve formation of an Active Work Zone Management Task Team
- 2. Plan (FY 2022) and Implement (FY 2023, FY 2024) at least 1 Active Work Zone project in each District; from the CAV funding source (not new money):
 - Allocate \$1 Million per District (1-7) for implementation;
 - > Evaluate District/CO needs and add support as necessary.

Statewide Implementation - Summary



Dashboard Link: https://devgis.fdot.gov/arcgisportal/apps/opsdashboard/index.html#/d40ad4f3f1b04681b4786f8ea46fdb5d

SWZ Project List

SR-869 / SW 10th Street Connector TSM&O

Smart Work Zone Project
Broward County District 4

10 SWZ Projects Statewide

I-4 Ultimate Project

Orange / Seminole County, District 5

D5 Queue Warning System

/olusia County, District 5

Smart Work Zone Pilot

Volusia County, District 5

Performance Evaluation of the Connected Tech Arrow Board (AB) Kit on Incident Response

Vehicle (IRV) Fleet

Miami-Dade County, District 6

Okeechobee Rd (US 27) Smart Work Zone

Project

Miami-Dade County, District 6

SafeTRIP in Tampa Bay Next (I-275 Westshore /

Memorial Interchange Reconstruction)

Hillsborough County, District 7

I-75 from South of CSX / Broadway Ave to

EB/WB I-4 Exit Ramp

Hillsborough County, District 7

Prioritized Safety Consideration by Work Zone

Types and Pilot Implementation
Hillsborough / Pasco County, District 7

Resurface Seminole Expresway

Seminole County, Florida's Turnpike Enterprise

Dashboard Contains Information:

- Project Limit
- Project Summary
- Smart Work Zone Technologies
- Communication Method to Travelers
- Detection Method Implemented
- In-field Communication Method

D6 – IRV Fleet Video



I2V Technology on Incident Response Vehicles

FDOT District Six Incident Management



Thank You!

WORK ZONE SAFETY It's Everyone's Job

BE AWARE of workers while driving through an active work zone.



