



Florida Department of  
**TRANSPORTATION**

# **FDOT Update**

**Florida Urban Traffic Engineering Council (FLUTECH)  
Florida Section ITE (FSITE)**

**October 30, 2018**

# Agenda

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- Traffic Services
  - Speed Zone Manual
  - Intersection Control Evaluation Manual
  - Request to Experiment and Interim Approvals GIS Maps
- Connected and Automated Vehicles (CAV)
  - Website
  - Business Plan
- Transportation Systems Management and Operations (TSM&O)
  - Statewide Arterial Management Program (STAMP) Action Plan
  - Automated Traffic Signal Performance Measures (ATSPM)
  - TSM&O 2017 Strategic Plan
  - TSM&O Information Systems
  - TSM&O National Awards



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# Traffic Services

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# Proposed Changes to Speed Zone Manual

- Overview of Major Revisions

- School Zone static time of day signs permitted under certain conditions for reduced school zone speed limits
- New School Zone Signing and Marking Standards and Compliance date extended to January 1, 2023.

- Implementation Updates

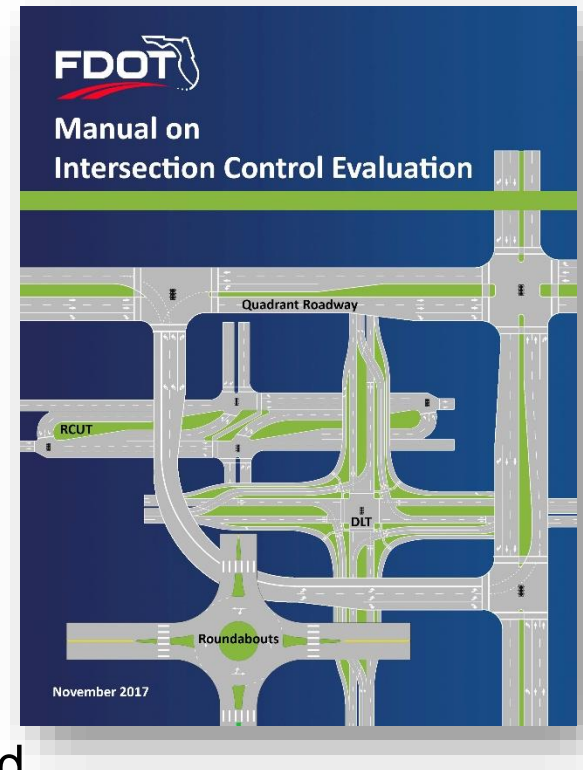
- Multi year funding available for Districts to assist Local Agencies with purchasing/installing flashing beacon sign assemblies
- Districts must use LAP or JPA Project Delivery Methods (Program Management Bulletin 18-07)



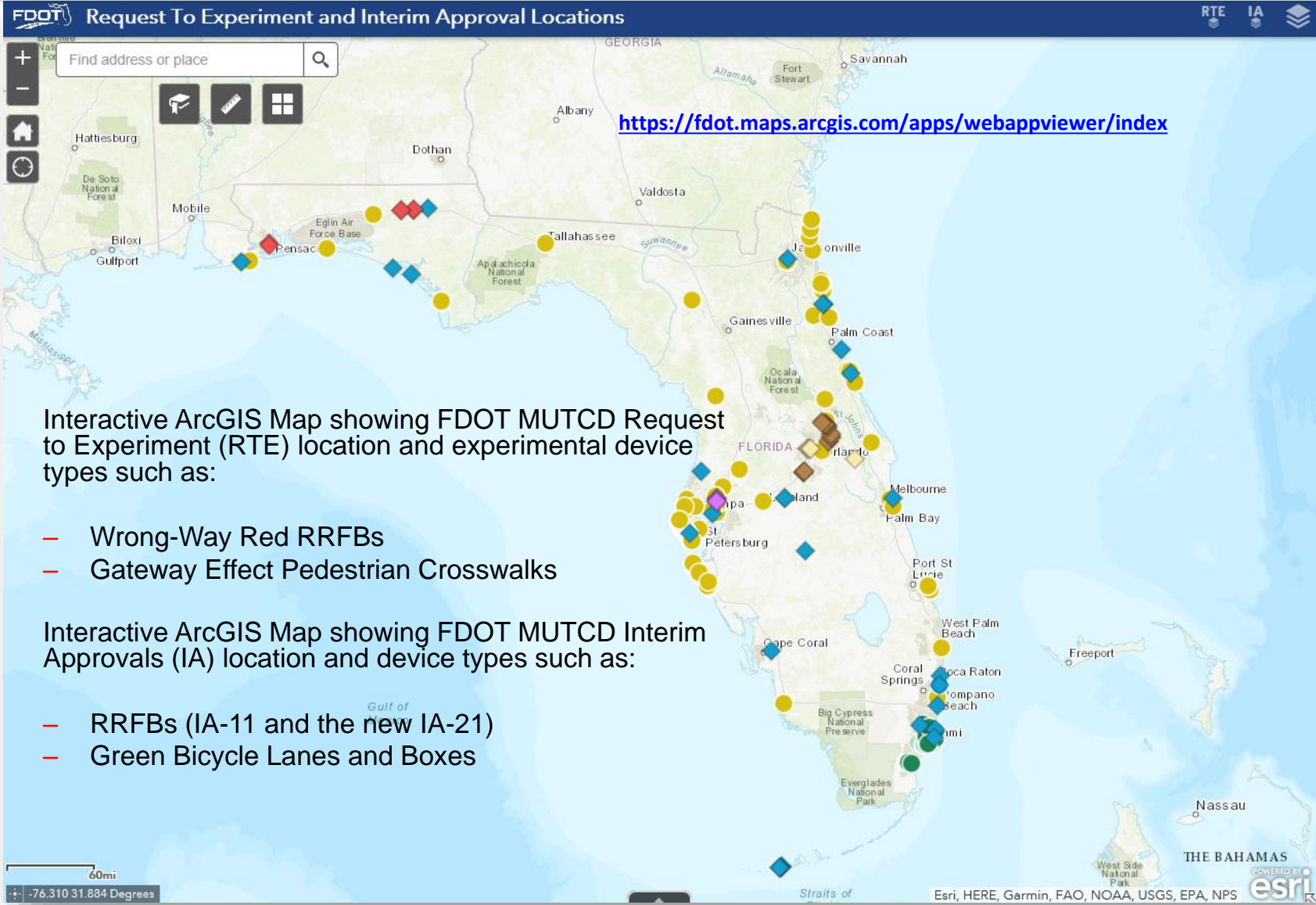
***S5-1 Flashing Beacon Sign Assembly***

# Intersection Control Evaluation Manual

- ICE Implementation Progress
  - ICE Training Complete
  - 14 Intersections are programmed and in various stages of project delivery.
  - Innovative Intersections include RCUTs, Roundabouts, DLTs and MUTs
- ICE Year 2 Implementation
  - A minimum of 3 Intersections must be evaluated for new alternative designs (21 Intersections Statewide)
  - ICE Procedure will be fully effective for all projects beginning January 1, 2020 (Bulletin 17-04)



# New Request to Experiment and Interim Approvals GIS Maps



Interactive ArcGIS Map showing FDOT MUTCD Request to Experiment (RTE) location and experimental device types such as:

- Wrong-Way Red RRFBs
- Gateway Effect Pedestrian Crosswalks

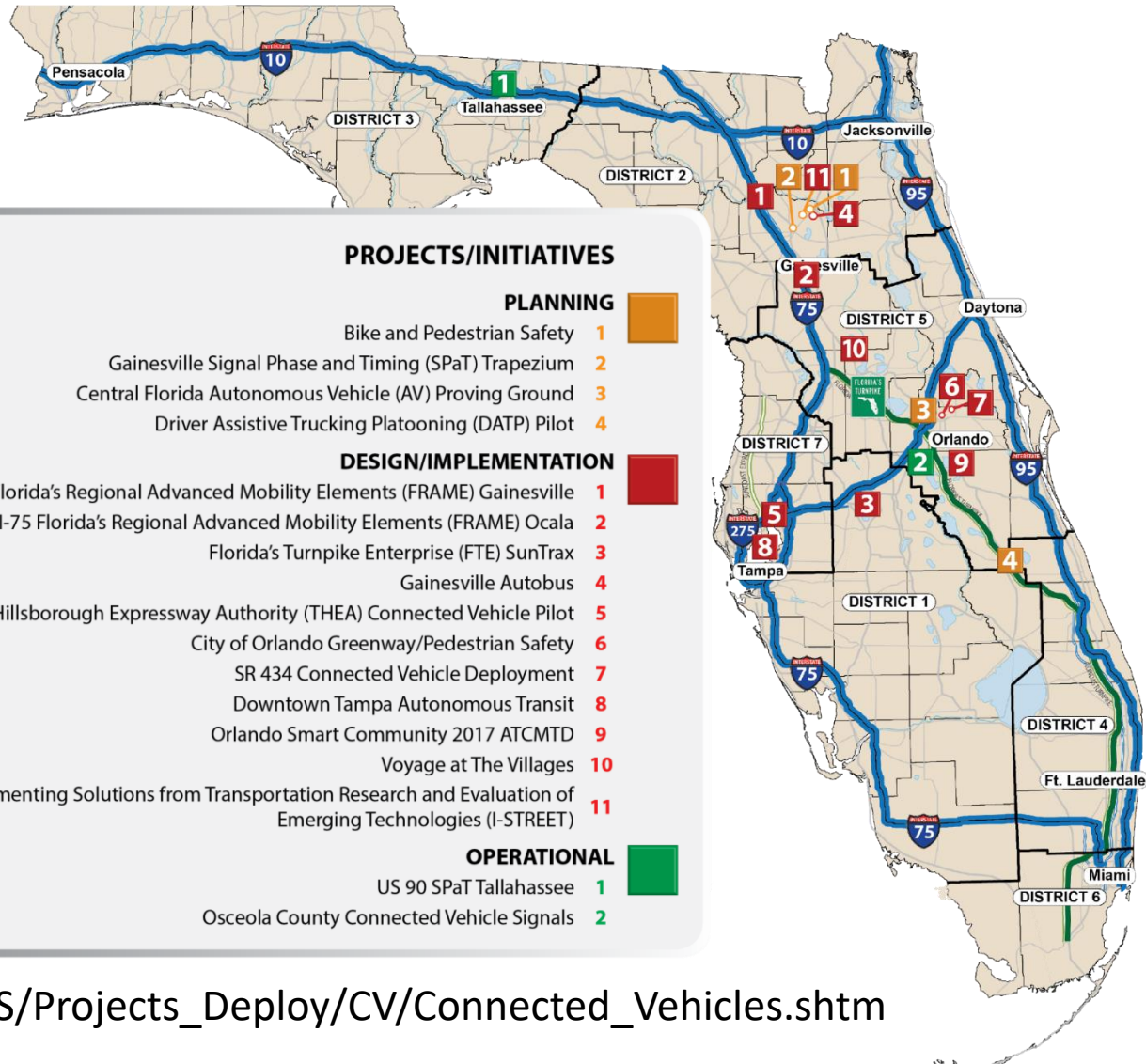
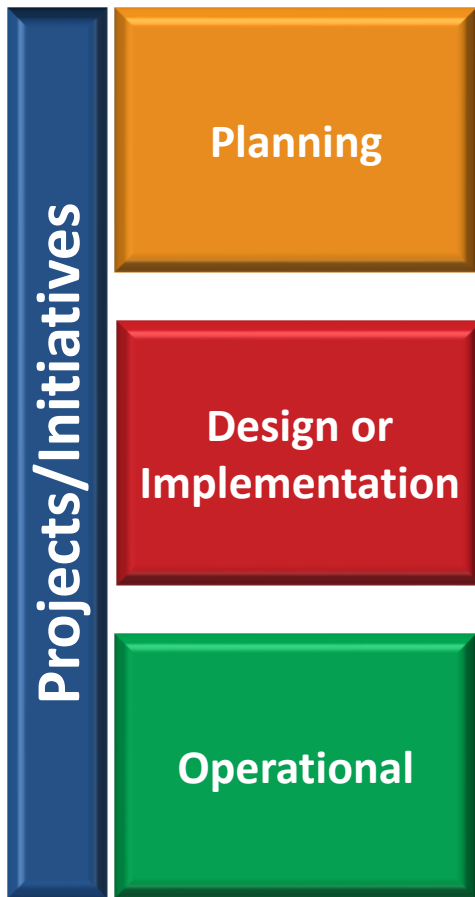
Interactive ArcGIS Map showing FDOT MUTCD Interim Approvals (IA) location and device types such as:

- RRFBs (IA-11 and the new IA-21)
- Green Bicycle Lanes and Boxes



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# **Connected and Automated Vehicles (CAV)**



[http://www.fdot.gov/traffic/ITS/Projects\\_Deploy/CV/Connected\\_Vehicles.shtm](http://www.fdot.gov/traffic/ITS/Projects_Deploy/CV/Connected_Vehicles.shtm)

# CAV is Consistent with Other Plans



# CAV Business Plan – DRAFT

Seven focus areas for Safety, Mobility, and Economic Development (SME) benefits:

1. Policies and Governance
2. Program Funding
3. Education and Outreach
4. Industry Outreach and Partnerships
5. Technical Standards and Specifications
6. Implementation Readiness
7. Deployment and Implementation



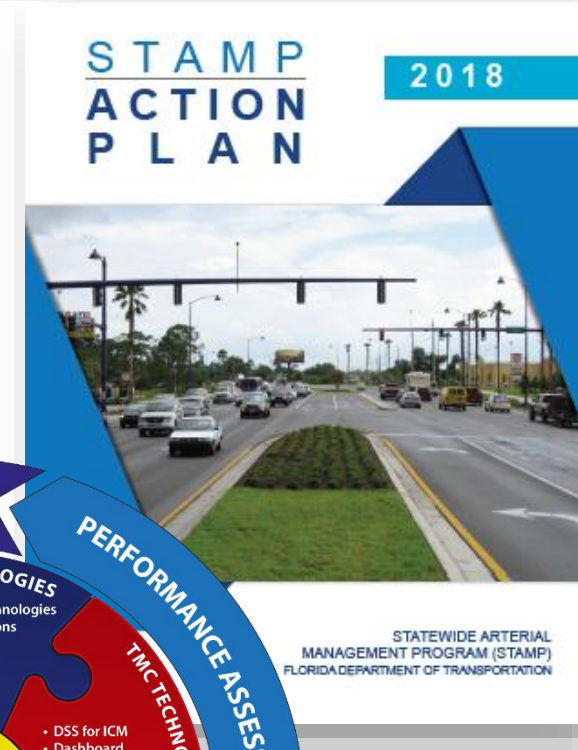


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# **Transportation Systems Management and Operations (TSM&O)**

# Statewide Arterial Management Program (STAMP) Action Plan

- Focus on **needle movers** – action items that make a noticeable difference in the program
- Districts and locals providing input
- STAMP Action Plan is **time-bound** action with a focus on:
  - Quick results
  - Short-term and long-term goals



# Automated Traffic Signal Performance Measures (ATSPM)

## ATSPM is:

- Open-source software package, high resolution data
- Real-time and historical performance data

## ATSPM performance measures include:

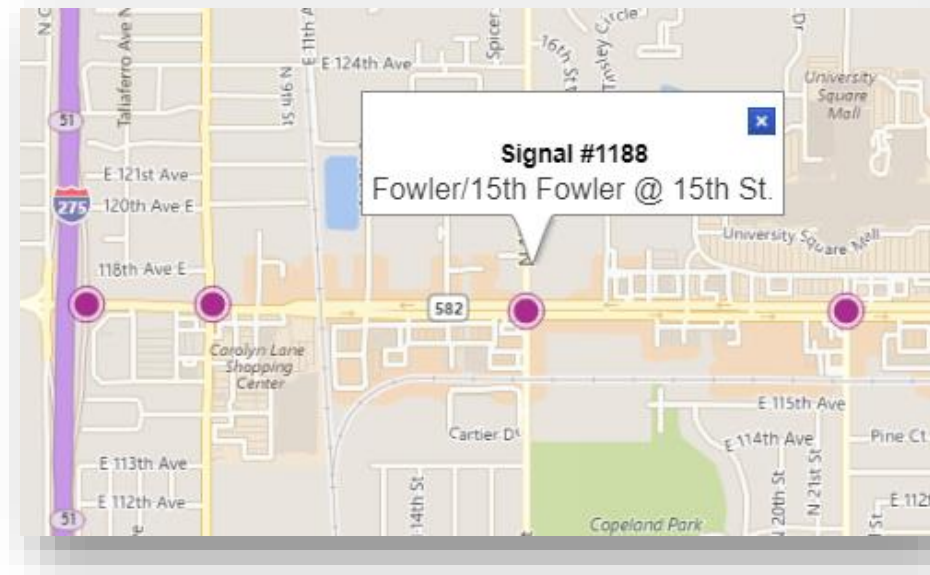
- Vehicle delay, volume, speeds, split failures, and progression

## ATSPM uses include:

- Bottlenecks, failing hardware, and safety issues on the fly

## ATSPM Deployments Underway:

- City of Tallahassee, District 7, District 5, and District 2



ATSPM Example from District 7 in Tampa

# TSM&O 2017 Strategic Plan

**VISION:** to increase the delivery rate of fatality-free and congestion-free transportation systems supporting the FDOT vision and Florida Transportation Plan goals.

**MISSION:** to identify, prioritize, develop, implement, operate, maintain, and update TSM&O strategies and measure their effectiveness for improved safety and mobility.

<http://www.fdot.gov/traffic/>



# TSM&O Strategic Plan Goals

## Goals:

Districts are establishing Goals for the following **outcome-based performance measures** (due 6/30/2019):

- Mobility
  - Improve travel time reliability
  - Reduce all lanes cleared time
  - Throughput increase
  - Delay reduction
- Safety
  - Secondary crash rates
- ITS/communication networks maintenance:
  - District uptime availability
  - Statewide uptime availability

## Hot off the Press:

Florida International University will develop Florida-centric TSM&O Crash Reduction and Mobility Enhancement Factors.

# TSM&O Strategic Plan Priority Focus Areas

- TSM&O Mainstreaming
- Arterial Management
- Connected Vehicles
- Express Lanes
- Freeway Management
- Information Systems

## Coming Soon:

### Standard Specifications:

Look for update to Section 671 –  
Traffic Signs, Signals and Markings  
(Now in 2017 Edition)

### FDOT Design

Look for update to Section 233 –  
Intelligent Transportation  
Systems (at Federal Highway  
Administration for approval)

# TSM&O Information Systems



<https://fl511.com/>

## Recent Updates:

Full Color displays and graphics on dynamic message signs (DMS)

Truck parking availability system (TPAS)

Lane by lane detector data

## Recent Updates to FL511 Website and App:

- TPAS – truck spaces available
- Weather Radar
- Closures and detours
- Helios weather alerts

## In Testing:

Interactive voice feature for the FL511 App

# TSM&O Program – National and International Awards



ITE TSM&O Award presented to Mr. Fred Heery on behalf of FDOT's TSM&O Program. 8/21/2018

ITS World Congress Hall of Fame, Local Government Award presented to Florida Transportation Commissioner Beth Kigel in Copenhagen, Denmark. 9/18/2018





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**Thank you**