FDOT Update

Florida Urban Traffic Engineering Council (FLUTEC)
Florida Section ITE (FSITE)

October 30, 2018
Agenda

- 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
Traffic Services
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)
• 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

https://fdot.maps.arcgis.com/apps/webappviewer/index
Connected and Automated Vehicles (CAV)
CAV Website

http://www.fdot.gov/traffic/ITS/Projects_Deploy/CV/Connected_Vehicles.shtm
CAV is Consistent with Other Plans
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
Transportation Systems Management and Operations (TSM&O)
• 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
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 updated Section 671 – Traffic Signal Controllers (Now in January 1, 2019 Edition)

**FDOT Design Manual:**
Look for updated Section 233 – Intelligent Transportation Systems (at Federal Highway Administration for approval)
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

https://fl511.com/
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
Thank you