

Broward County Transportation Surtax Oversight Board

Transportation System Management & Operations (TSM&O) Presentation

Objectives

Provide information on TSM&O relevant to Broward County

 Prepare the Oversight Board to apply informed oversight of TSM&O project investment

Agenda

- I. TSM&O Overview
- **II. TSM&O in Broward County Today**
- **III. TSM&O in Broward County Future**
- **IV. CAV Overview**
- V. FDOT Support
- VI. Oversight Board: Keys to Success
- VII. Summary



I. TSM&O Overview

WHAT

Transportation Systems Management and Operations

 Operating/managing the transportation network with technology strategies and clear performance measures

WHY

- Improved quality of life
- More reliable traffic flow
- Improved safety
- Reduced congestion
- Less wasted fuel
- Cleaner air
- Increased economic vitality
- More efficient use of resources
- OPERATIONS/MAINTENANCE COMMITMENT



II. TSM&O in Broward County

Freeway Component

- What (Traffic Incident Management, Express Lane Network, Ramp Signaling)
- Why (Maintain mainline flow)
- Where (I-95, I-595, I-75)
- Results (Travel Time Index 1.31 in 2018, 1.38 in 2017)







II. TSM&O in Broward County (cont'd)

- Arterial Component
 - What (Arterial Traffic Management System, Active Arterial Management)
 - Why
 - Where (High traffic, transit arterials)
 - Results (806 signal timing changes in 2018)

Signal timing changes by year

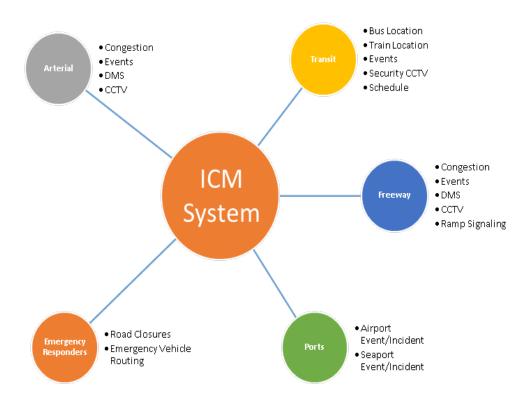
	J	F	M	Α	M	J	J	Α	S	0	N	D	Total
2016	0	0	0	0	0	75	0	75	90	33	39	55	367
2017	44	0	39	54	73	85	67	24	70	12	28	57	553
2018	53	30	130	75	71	39	53	38	38	134	33	112	806

ATMS Network – Broward County



III. Future of TSM&O in Broward County

- Freeway Component
 - Ramp signaling
 - Integrated Corridor Management



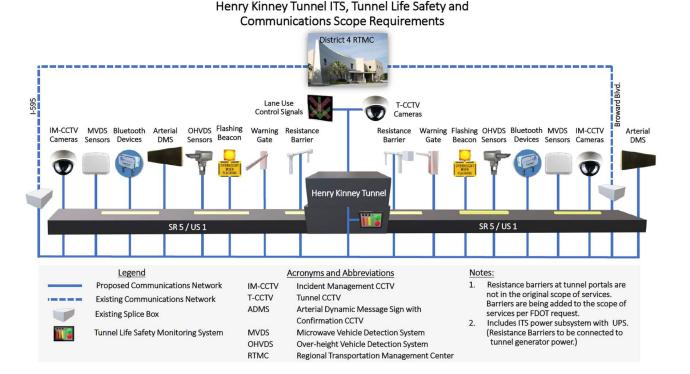
Arterial Component

- Expansion of Active Arterial
 Management network on State Highway
 System and non-State Highway System
- Adaptive control
- Transit Signal Priority
- Context-sensitive arterial control

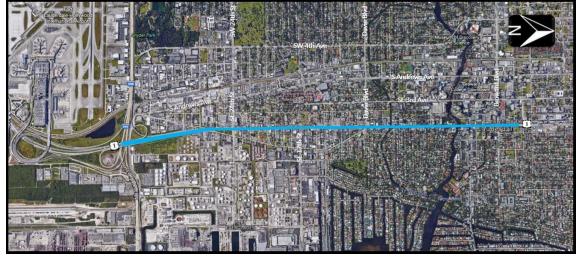


III. Future of TSM&O in Broward County (cont'd)

Infrastructure Monitoring – Henry Kinney Tunnel

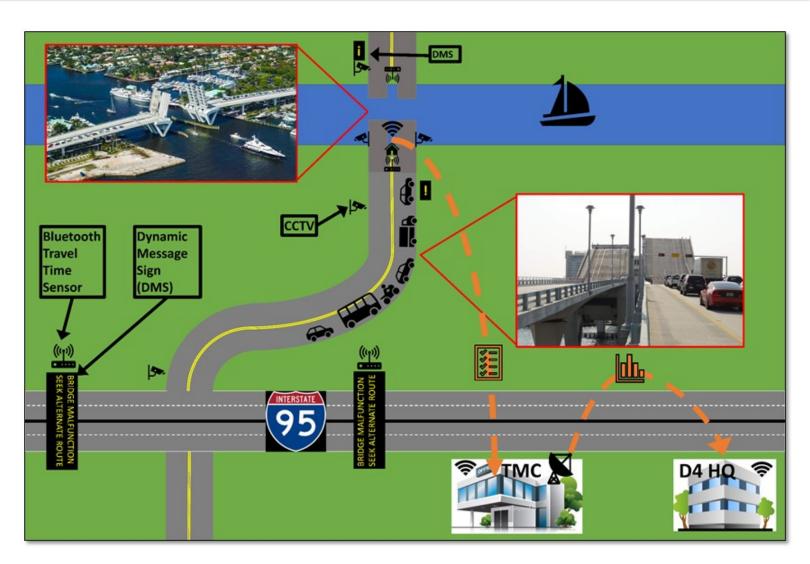


Henry Kinney Tunnel Rehabilitation- ITS Project Map



III. Future of TSM&O in Broward County (cont'd)

- Infrastructure Monitoring
 - Intracoastal Waterway
 Bridge Monitoring

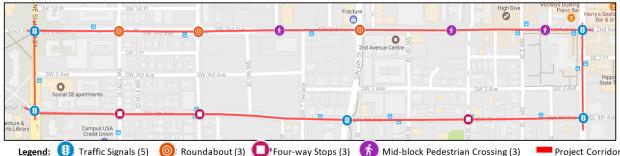


IV. Connected and Autonomous Vehicles Overview

- Autonomous Vehicles (AV)
 - What (Initial AV applicationtaxi, transit, truck focus)
 - Why
 - Industry/Government status
 - Implications for Broward County and FDOT
- Connected Vehicles (CV)
 - What
 - Why
 - Industry/government status
 - Implications for Broward County and FDOT

Gainesville Autonomous Transit Shuttle (GAToRS) Pilot Project







V. FDOT Support of Oversight Board for TSM&O

- The Department is prepared to plan, design and deliver TSM&O projects entirely on or that include a part of the State Highway System; projects identified through master planning process
- Reinforce key concepts
- Program and Industry Updates (master planning; technology)
- Featured Projects (scope; results)

VI. Oversight Board: Keys to Success for TSM&O

Ask questions

Familiarity with TSM&O Master Plan

Stay current with regular interaction with FDOT and Broward County staff

Summary

Objectives

Information; Informed Oversight Board

Agenda

TSM&O in Broward County: today and in the future

Keys to Success

Ask questions; Stay informed