









SW 10th Street Transportation Systems Management and Operations (TSM&O) Project – 439891-5

Project Information Session

Ground Rules

- Please mute microphone
- Hold all questions until the end of the presentation
- Raise hand for questions and wait to be recognized

Presentation Outline

- SW 10th Connector Improvements- Achieving FDOT Priorities and Objectives
- Safety Initiative Slide-Move Over Law
- DBE/SB Program
- SW 10th St Connector Overall Program Summary
- SW 10th St TSM&O Project (439891-5)
 - Project Objectives
 - Programmed Funding
 - Agency Coordination
 - · Summary of Planned Improvements
 - FDOT District 4 TSM&O Scope Summary
 - · Broward County Scope Summary
- Next Steps for Project Implementation



SW 10th Street Connector Improvements Achieve FDOT Priorities And Objectives

- Focus on the Vital Few
 - Improve Safety
 - Enhance Mobility
 - Inspire Innovation
- SW 10th Street Improvement Projects
 - Expand Mobility and Transportation Options
- Work Zone Safety a focus area from Central Office to the District
 - Work zone Safety is one of the emphasis areas of the Florida Strategic Highway Safety Plan
 - Using ITS and CAV technologies in and around work zones has been a focus area identified by both CO and D4





Top 3 Safety Emphasis Areas of Florida's Strategic Highway Safety Plan and FDOT's Vital Few Safety Focus



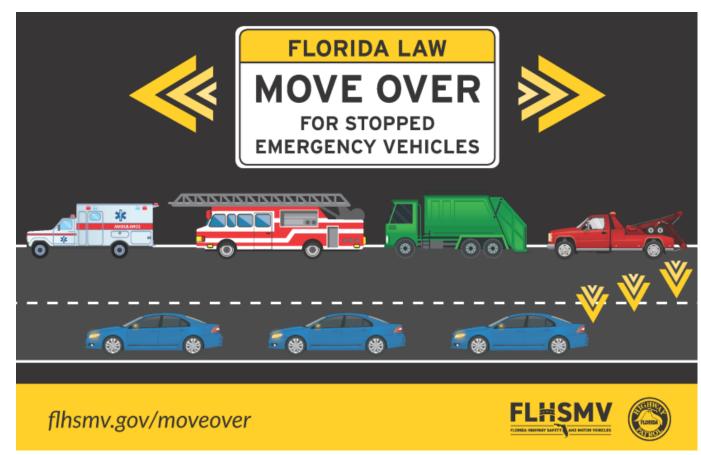






Florida Move Over Law

- Move Over a lane when you can safely do so – for:
 - Stopped law enforcement
 - Emergency, sanitation, and utility service vehicles
 - · Tow trucks or wreckers
 - Maintenance or construction vehicles with displayed warning lights
- If you can't move over or when on a two-lane road – slow to a speed that is 20 mph less than the posted speed limit
- Slow down to 5 mph when the posted speed is 20 mph or less





DBE/SB Program

Assisting Small and Disadvantaged Businesses

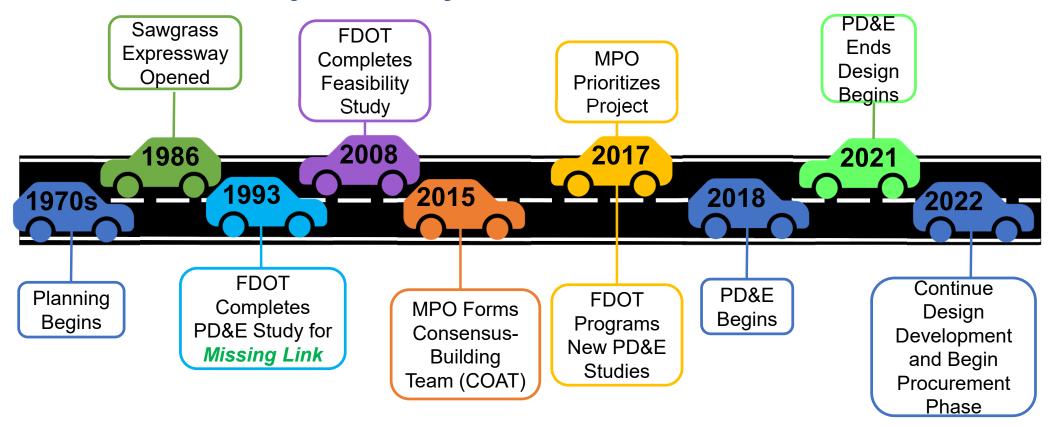
FDOT Support Services Programs

Thomas Huggins, DBE Coordinator

Moya Bailey, Field Consultant DBE Support Services Program Mark Jackel, Field Consultant DBE Support Services Program



SW 10th Street Project History



Purpose and Need

- Improve Connectivity of Strategic Intermodal System (SIS) and Limited Access Facilities (SR 869/Sawgrass Exp. with I-95)
- Address Local SW 10th Street Mobility Needs
- Enhance Social Demand, Intermodal connectivity, and Economic Development
- Address Safety and Operational Issues Caused by Congestion
- Enhance Emergency Response Times and Evacuation Operations



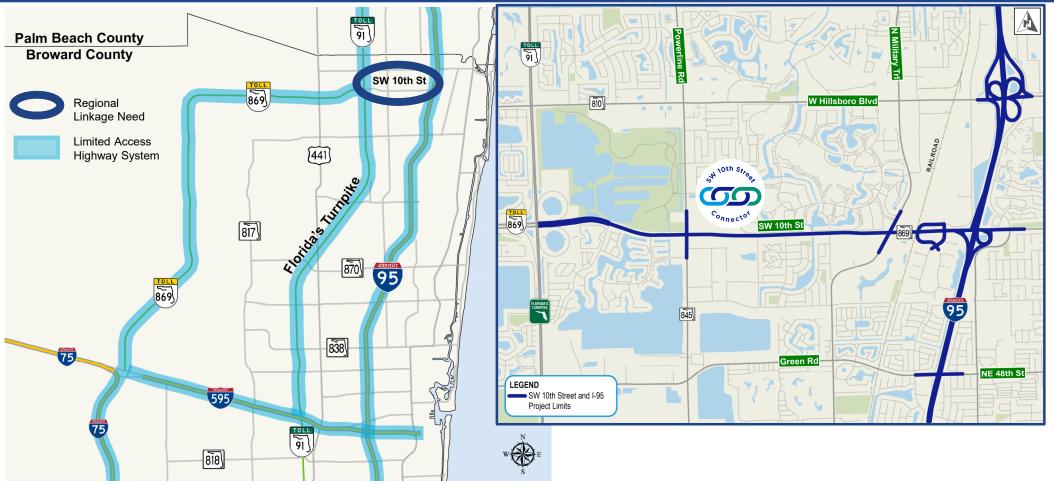


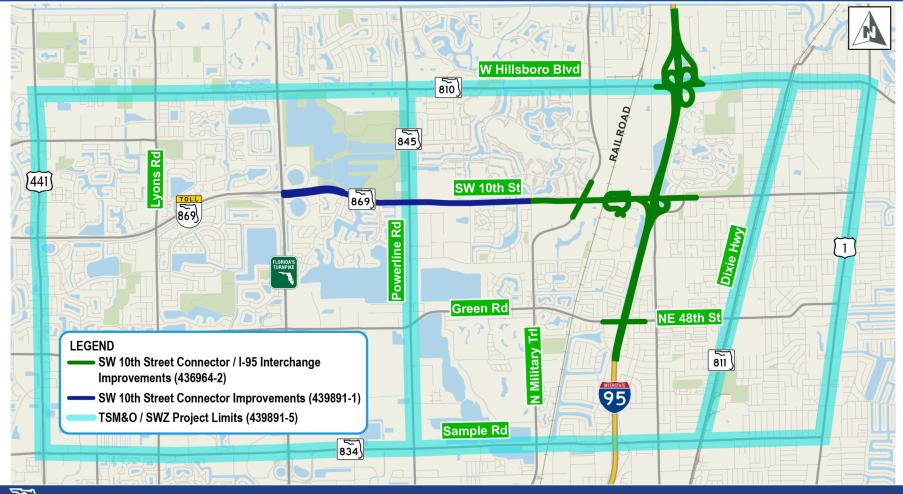
Regional Importance and Travel Demand

- "Missing Link" on Regional Limited Access Network
- Regional Weekday Daily Trip Flows
 - Commuter trips
 - Broward, west of Turnpike to/from Palm Beach, east of I-95: 51,000 daily trips
 - Palm Beach, west of Turnpike to/from Broward, east of I-95: 23,000 daily trips



Source: 2016 Origin-Destination Data Streetlight Insight







Project Objectives

- Enhance work zone safety and mobility, throughout and beyond construction limits of SW10th Street Connector Projects
- Continued support of the regional traffic operations after construction
- Enhance infrastructure readiness for future technology expansion, including use of scalable Connected Vehicles systems
- Expansion of Regional network coverage of Advanced Transportation
 Management System corridors in Broward County

Construction Funding

 439891-5-52-01 – approximately \$23.8M

 439891-5-52-02 – approximately \$6.8M



Agency Coordination

FDOT District 4

Broward County

• Florida's Turnpike Enterprise







Summary of Planned Improvements

- Arterial ATMS deployments on these six state road corridors
 - SR 810 (Hillsboro Boulevard) from SR 7 to US 1
 - SR 834 (Sample Road) from SR 7 to US 1
 - SR 7 (US 441) from SR 810 to SR 834
 - SR 845 (Powerline Rd) from SR 810 to SR 834
 - SR 811 (Dixie Highway) from SR 810 to SR 834
 - SR 5 (US 1) from SR 810 to SR 834

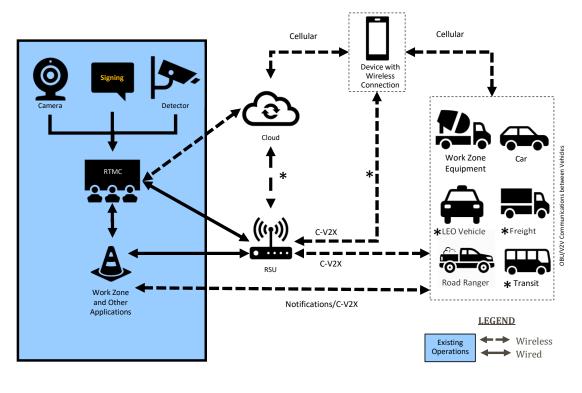
Summary of Planned Improvements

- Communications subsystem 144 SMFOC, new Hub Shelters, L2/L3 Switches, etc.
- Power subsystem electrical service points, UPS in the device cabinet, permanent generators, etc.
- CCTV Cameras approximately 45
- Arterial DMS approximately 13
 - Including 2 ADMS which will be integrated into FTE system
- Vehicle Detection System both MVDS and Bluetooth detectors approximately 60

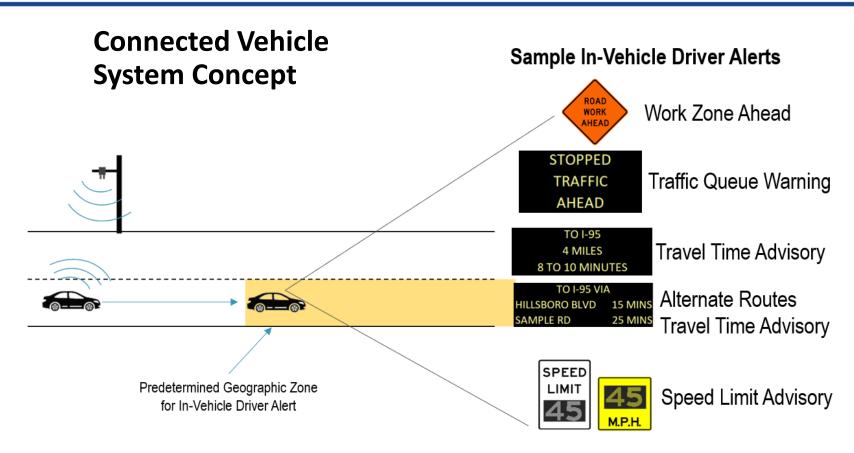


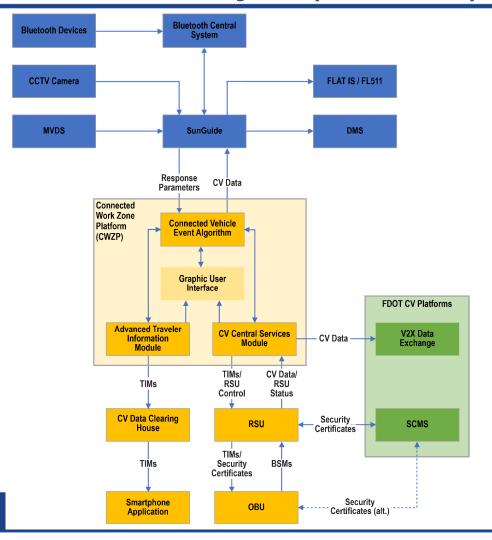
Summary of Planned Improvements

- Connected Vehicle scope will consist of
 - Roadside units field deployment approximately 75
 - Onboard Units deployment on designated vehicles approximately 100
 - Smartphone applications development and integration/deployment
 - CV central software/platform development



Connected Vehicle System Concept





Connected Vehicle System Architecture

SunGuide

Legend

CWZP FDOT CV

Platforms



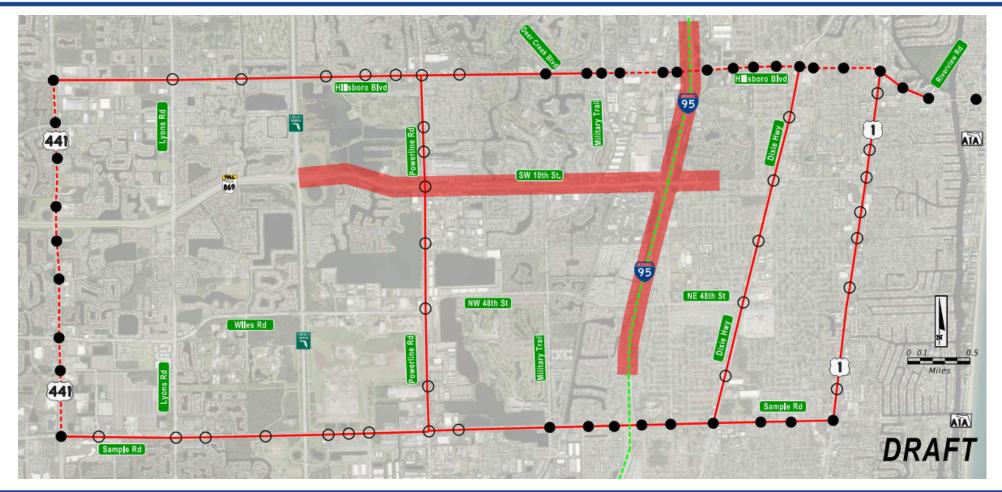
Summary of Planned Improvements

- Traffic signal interconnection fiber optic cable deployment limits
 - SR 810 (Hillsboro Boulevard) from SR 7 to Military Trail and from US 1 to Riverview Road
 - SR 834 (Sample Road) from SR 7 to US 1
 - SR 845 (Powerline Rd) from SR 810 to SR 834
 - SR 811 (Dixie Highway) from SR 810 to SR 834
 - SR 5 (US 1) from SR 810 to SR 834

Summary of Planned Improvements

- Adaptive Traffic Control System (ATCS) deployment limits (35 intersections) –
 - SR 810 (Hillsboro Boulevard) from Deer Creek Boulevard to SR A1A
 - SR 834 (Sample Road) from Military Trail to US 1
 - SR 7 (US 441) from SR 810 to SR 834





Next Steps for Project Implementation

- TSM&O Schedule (439891-5)
 - RFP Development Ongoing
 - In-Person Industry Forum March 2022
 - Advertisement May 2022
 - Shortlisting July 2022
 - Letting February 2023



Next Steps for Project Implementation

- Adjusted Score Design-Build
- Standard FDOT Two-Phase DB Approach
- Phase I Expanded Letter of Interest
- Phase II Technical Proposal
 - Alternative Technical Concept (ATC) Meetings
 - Page Turn Meeting
 - Question & Answer Session
- Price Proposal
- Final Selection Formula (Adjusted Score)
 - Bid Price Proposal/Technical Score



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Questions