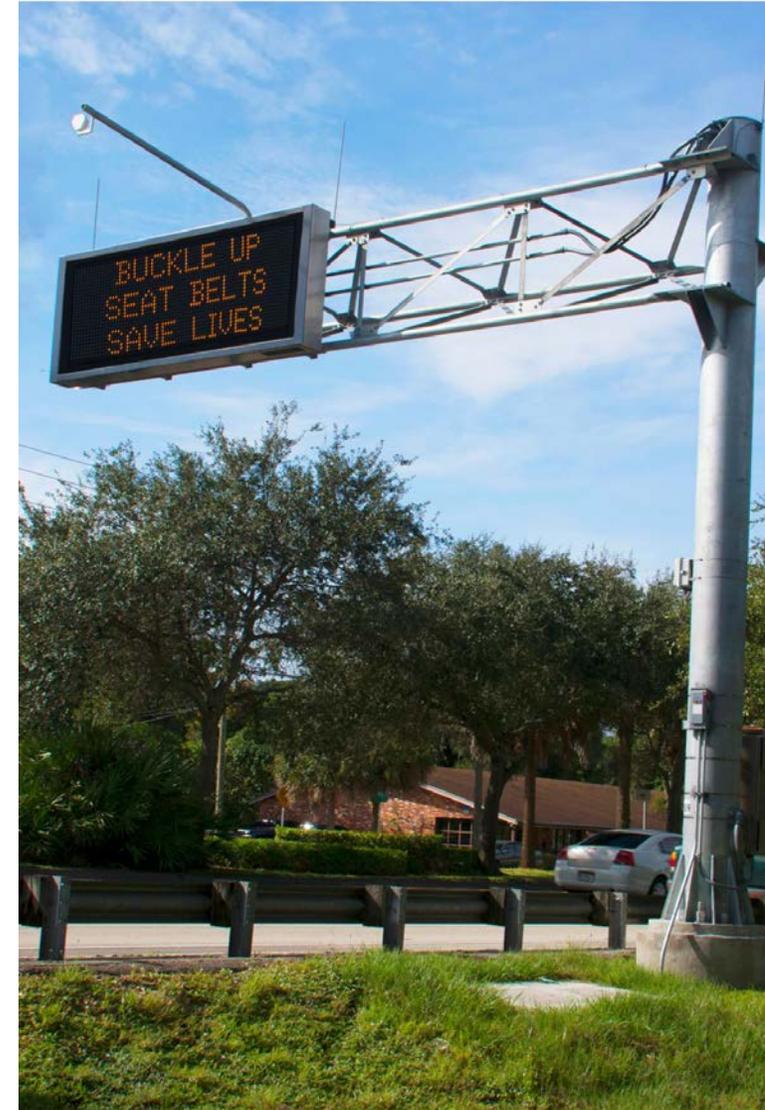


FDOT District Four Arterial Management Program



Program Overview

Our mission: Provide efficient active traffic management for incidents, special events and planned construction throughout District Four's Broward and Palm Beach county arterial roadways.

Signalized intersections in Palm Beach – 1,100

→ On FDOT roadway - 530

Signalized intersections in Broward – 1,456

→ On FDOT roadway – 739

Strategies: Signal Retiming, Traveler Information Dissemination, Event Management and Incident Management*

*Only available in Broward County through SIRV

Equipment Overview

Broward County

- Utilized controller/ATMS combination – NEMA 2070 controllers (*except for a few locations that have 900 series*)
- Signals that implement signal preemption:
 - Railroad – 55 signals
 - Emergency Vehicles – 633 signals

Palm Beach County

- Utilized controller/ATMS combination – NEMA 980 TS2 controllers
- Signals that implement signal preemption:
 - Railroad – 59 signals
 - Emergency Vehicles – 630 signals



Arterial Coverage Network

BROWARD COUNTY

Broward Phase 1 – Central Broward

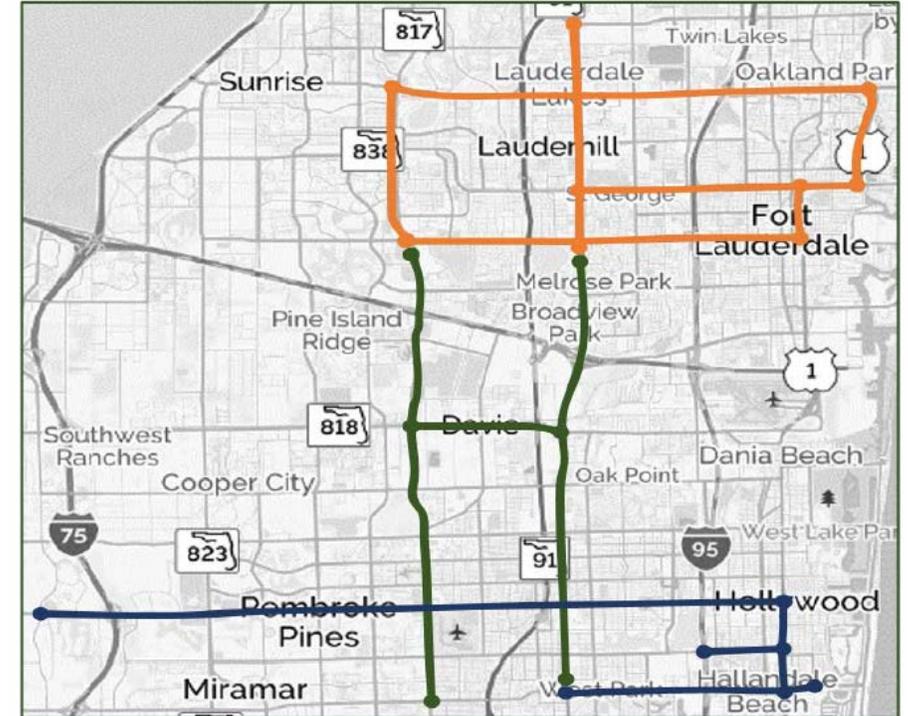
- **Oakland Park Boulevard** from University Drive to US-1/Federal Highway
- **Sunrise Boulevard** from US-441/SR 7 to US-1/Federal Highway
- **Broward Boulevard** from University Drive to US-1/Federal Highway
- **University Drive** from Broward Boulevard to Oakland Park Boulevard
- **US-441/SR 7** from Southwest 4th Street to Commercial Boulevard
- **US-1/Federal Highway** from Broward Boulevard to Oakland Park Boulevard

Broward Phase 2 – Southern Broward

- **Pines Boulevard/Hollywood Boulevard** from Interstate 75 to US-1/Federal Highway
- **Pembroke Road** from Interstate 95 to US-1/Federal Highway
- **Hallandale Beach Boulevard** from US-441/SR 7 to Three Islands Boulevard
- **US-1/Federal Highway** from Hollywood Boulevard to County Line Road

Broward Phase 3 – Three Corridors

- **University Drive** from Miramar Parkway to Broward Boulevard
- **US-441/SR 7** from Hallandale Beach Boulevard to Southwest 4th Street
- **Griffin Road** from University Drive to US-441/SR 7

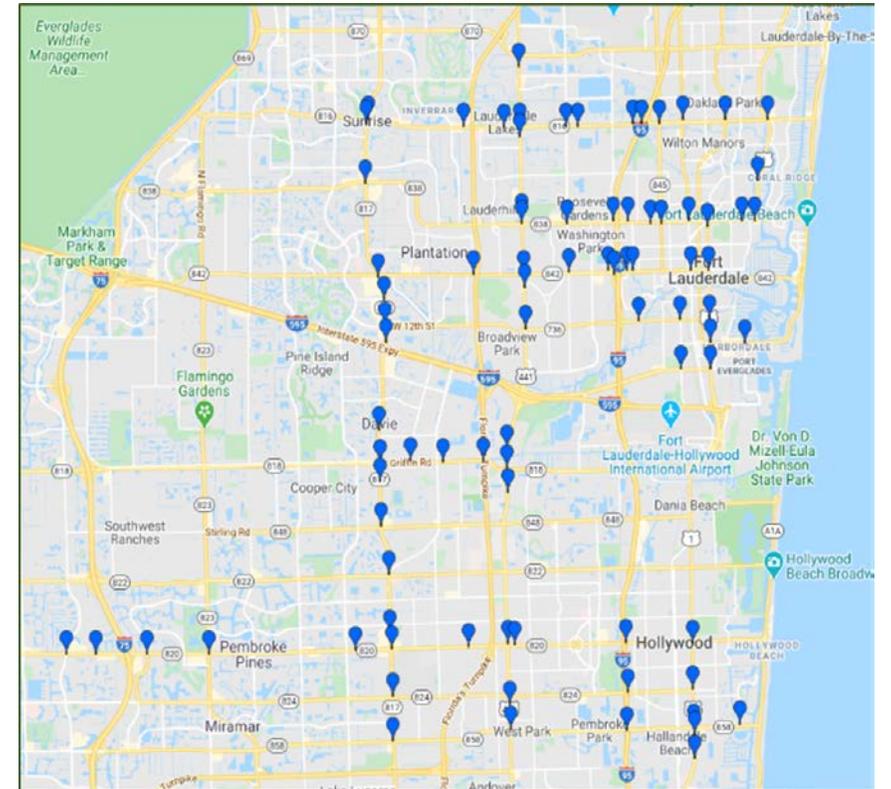


ITS Arterial Device Coverage

BROWARD COUNTY



ADMS Locations



BlueTOAD Locations

Arterial Incident Management

BROWARD COUNTY

SIRV expanded incident management coverage to the Broward arterials on **July 29, 2019**.

As of January 2020, SIRV has responded to 193 lane blocking events, resulting in benefits below:

- Incident Time Savings: 1878 minutes
- Lane Blockage Time Savings: 4963 minutes
- Agency Time Savings: 665 minutes

Using the Federal Highway Administration's lane closure reduction calculation, SIRV saved an estimated \$1,210,972 - \$1,815,495 in just 6 months of arterial patrol.

SIRV operates 1 dedicated truck on the Broward arterial network, Monday – Friday from 6 a.m. to 7 p.m.

AMS Program Performance Measures

BROWARD COUNTY

December 2019

Arterial Coverage Network

PALM BEACH COUNTY

Palm Beach – Central Corridors

- **PGA Boulevard** from Florida's Turnpike to US-1
- **Northlake Boulevard** from Military Trail to US-1
- **Palm Beach Lakes Boulevard** from Okeechobee Boulevard to US-1
- **Okeechobee Boulevard** from Royal Palm Beach Boulevard to Flagler Drive
- **Belvedere Road** from US-441/SR 7 to US-1
- **Southern Boulevard** from Seminole Pratt Whitney Road to Flagler Drive
- **US-441/SR 7** from Lake Worth Road to Okeechobee Boulevard
- **Jog Road** from Southern Boulevard to Okeechobee Boulevard
- **Military Trail** from Lake Worth Road to PGA Boulevard

Palm Beach – Downtown West Palm Beach

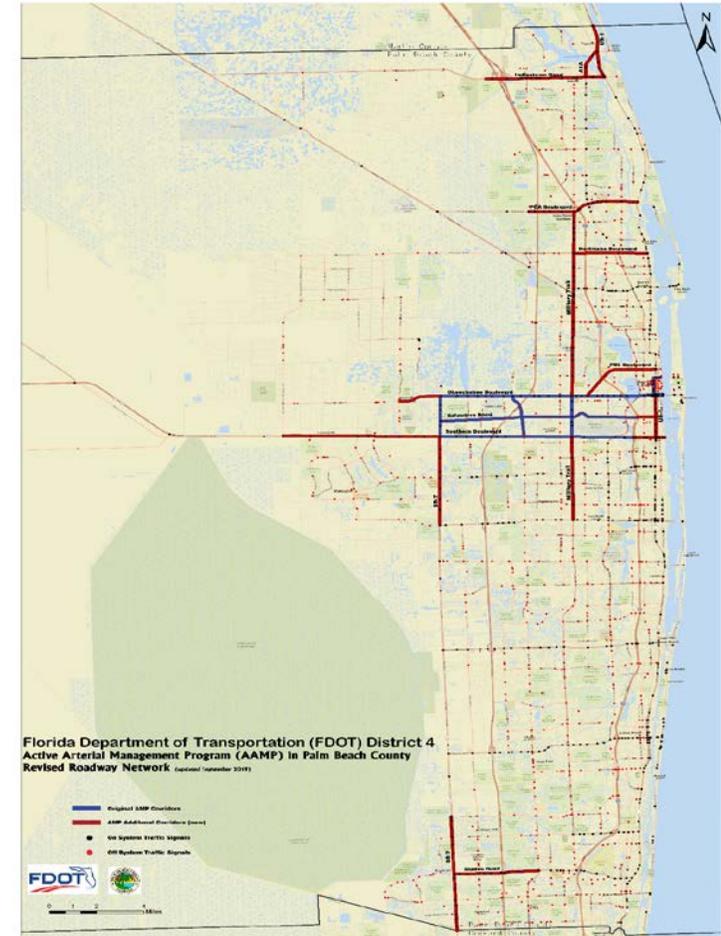
- **Quadrille Boulevard** from Okeechobee Boulevard/Lakeview Avenue to Flagler Drive
- **US-1/Dixie Highway** from Okeechobee Boulevard/Lakeview Avenue to Quadrille Boulevard
- **Olive Avenue** from Okeechobee Boulevard/Lakeview Avenue to Quadrille Boulevard
- **Flagler Drive** from Okeechobee Boulevard/Lakeview Avenue to Quadrille Boulevard

Palm Beach – Town of Jupiter

- **Indiantown Road** from Florida's Turnpike to US-1
- **A1A** from Indiantown Road to US-1
- **US-1** from Indiantown Road to Martin County Line

Palm Beach – West Boca Raton

- **US-441/SR 7** from Broward County Line to Clint Moore Road
- **Glades Road** from US-441/SR 7 to Jog Road

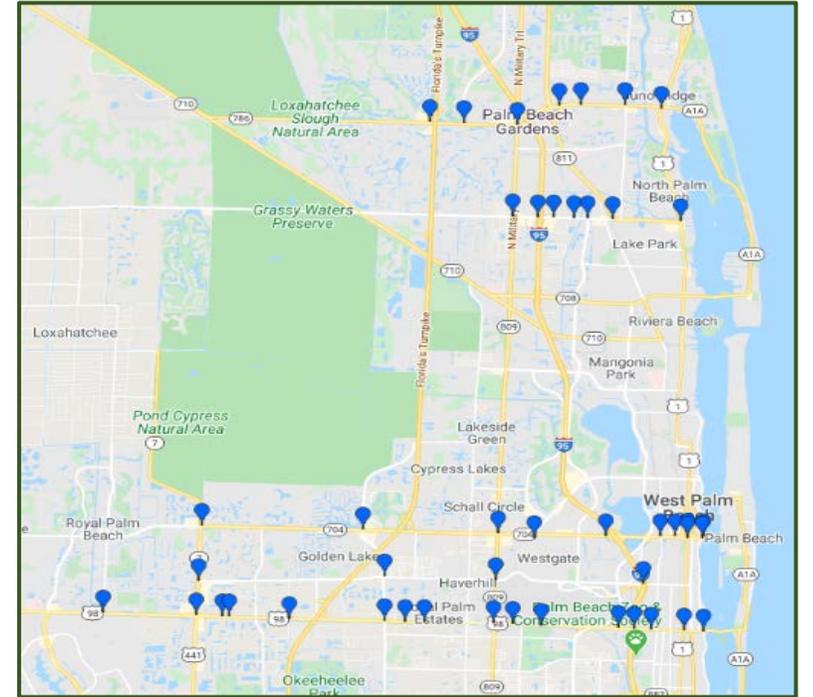


ITS Arterial Device Coverage

PALM BEACH COUNTY



ADMS Locations



49 BlueTOAD Locations

AMS Program Performance Measures

PALM BEACH COUNTY

December 2019

Number of Monitored Incidents	Number of Managed Incidents	Number of Signal Timing Changes	Average Incident Duration (Min.)	Benefit-to-Cost (B/C)	Net Benefit Value
110	58	45	77	4.15	\$237,314

Estimated Monthly Benefits Summary

Performance Measure	Benefit
Travel Time/Delay Savings	\$193,819
Reduction in Emissions	\$13,244
Reduction in Fuel Consumption	\$26,315
Safety Benefits	\$79,365
Adaptive Signal Control Benefits	NA
Total Benefits	\$312,742
Estimated Monthly O&M Costs	\$75,429

Future Initiatives

Broward County

- Encoders installations at traffic cabinets to transmit live video-feed from detectors to TMC using wireless communication.
- Installation of Transit Signal Priority on 2 corridors:
 - US-1 from Sheridan St. To County Line Road
 - Broward Blvd from SR-7 to Federal Highway

Palm Beach County

- Indiantown project for ATC controllers



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