



Florida Department of
TRANSPORTATION

TSM&O / Arterial Management District 4

Putting the **GO** in Stop 'N Go Lights



AGENDA

TSM&O:

- **An Evolving Core Function**
- **Planning for the Future**
- **Do the Basics Right**
- **Advancing the State of Practice**



50
a day!





An Evolving Core Function

- **Complex IT system adapting** to **evolving** technology and mobility visions
- **All components** from planning to system replacement are **highly interdependent** (e.g. design must consider system operations and maintenance)
- **System** Engineering, not Civil



Planning for the Future

- **Master planning** to achieve systematic, sustainable improvement in arterial management
- Criteria established to identify arterials most benefitting from **coordinated, actively managed** operation in **collaboration** with traffic signal maintaining agencies

report

Transportation Systems Management and Operations (TSM&O) Master Plan

Broward and Palm Beach Counties

prepared for

Florida Department of Transportation, District 4

prepared by

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date

June 30, 2017



Planning for the Future (cont.)

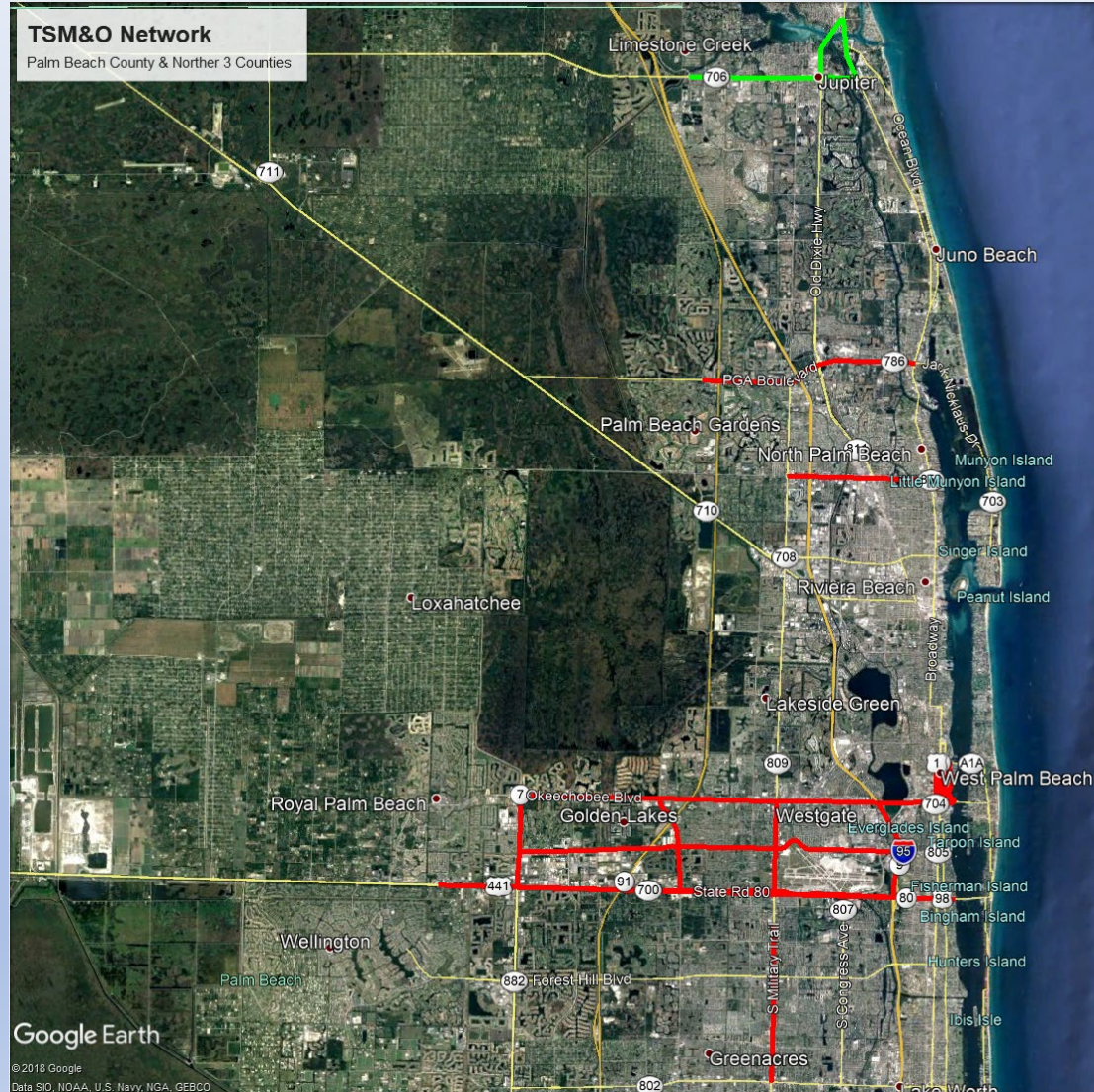
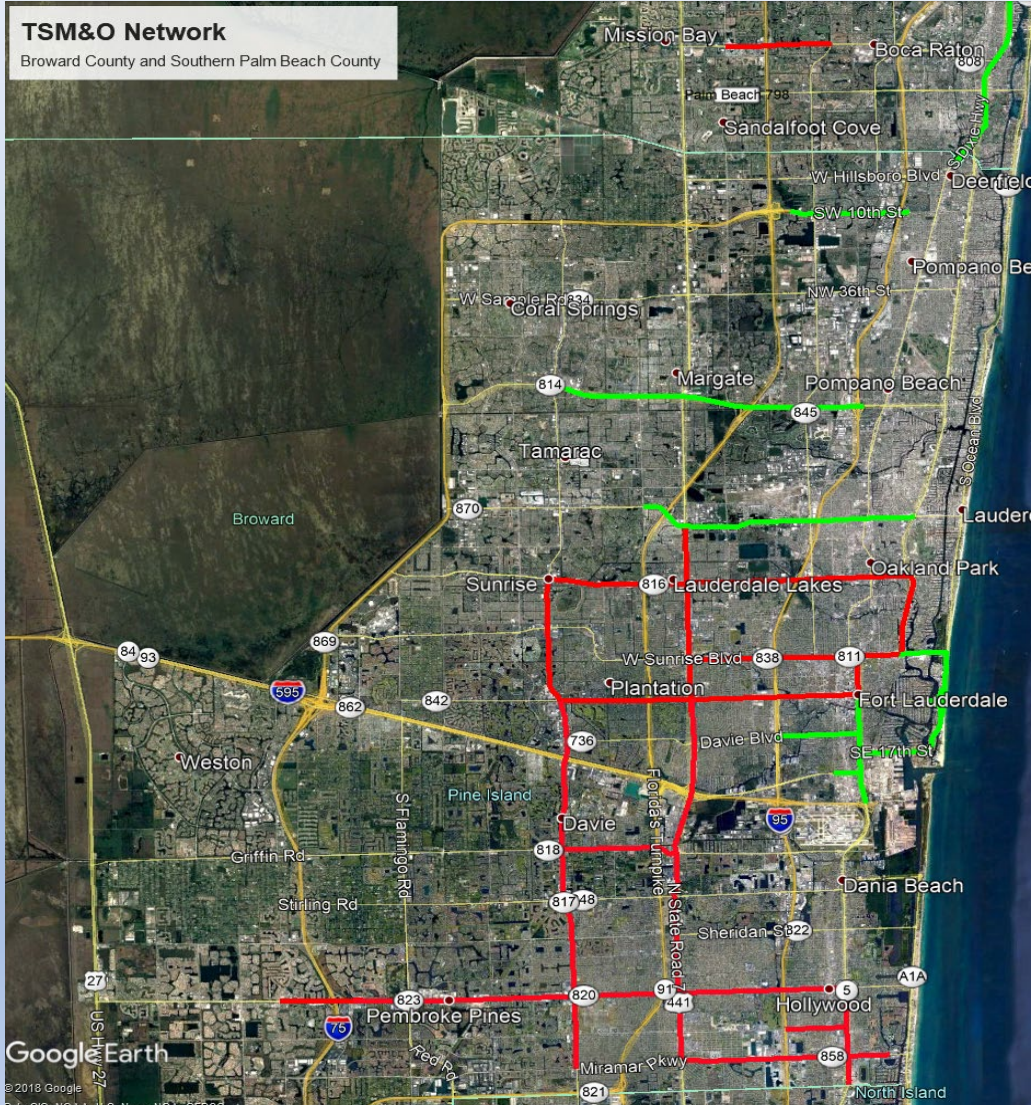
- **Incremental** deployment of **ITS devices** and **TMC resources** to support collaborative improvement of traffic flow
- ITS maintenance and TMC operation **work load formulas** are basis for stable and adequate resources



DISTRICT 4 RTMC



Planning for the Future (cont.)



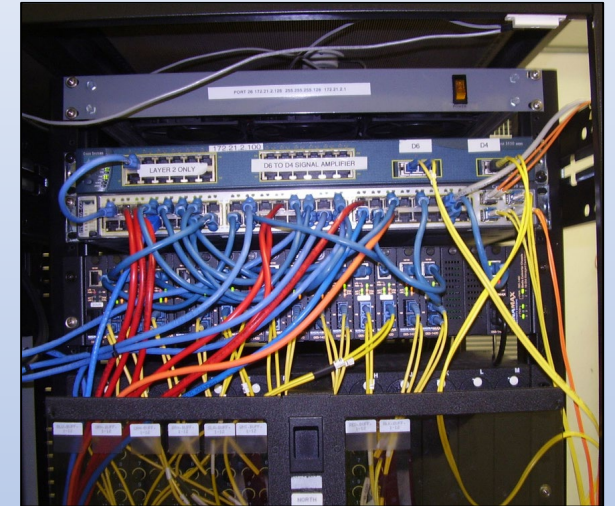
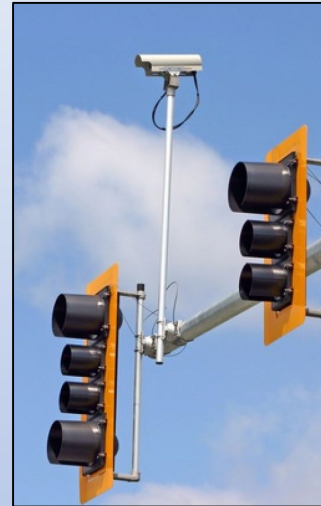
Legend

- Current Network
- Future Expansion



Do the Basics Right

- **Detection**
- **Communication**
- **Control Strategies**
 - Coordinating the right signal groups based on traffic movement in network
 - Delay vs. Throughput

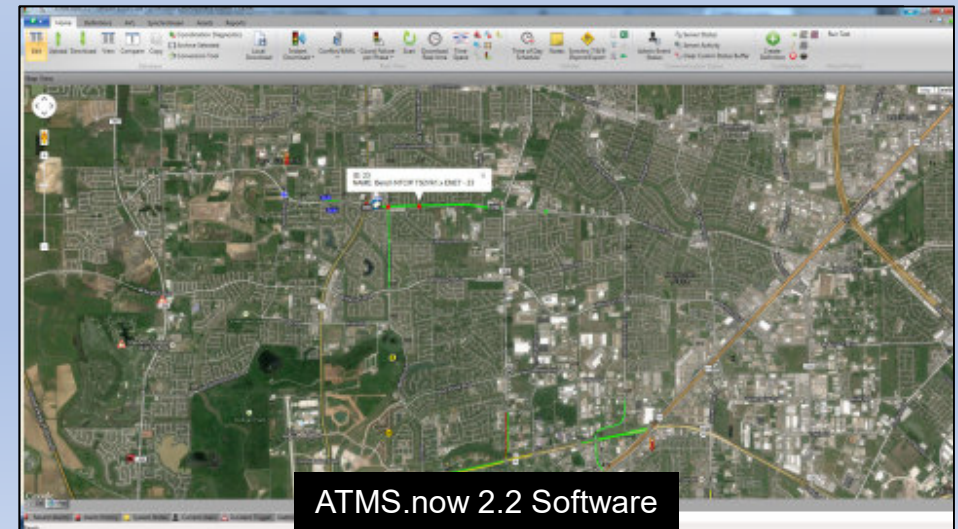




Do the Basics Right (cont.)

Invest in Smart Maintenance:

- Augment compensation for **Traffic Signal Maintenance** in critical corridors where feasible
- Use signal system software to **monitor detector/communication health** and use to guide maintenance strategies





Advancing the State of Practice

- Establish and maintain industry forum to identify and disseminate best practices associated with **detection/communication control strategies** and **coordination grouping**
- Establish **annual control strategy contest** to help advance state of control practice



Advancing the State of Practice

- Develop **Traffic Signal Technician Career Day** to support growing need for experienced technicians in this field
- **Deliver regular presentations to elected officials** on arterial control practice and results to increase local support
- Consider how TSM&O should drive **organizational change**