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# District 10 / FSITE Annual Meeting

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# Agenda

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- South Florida context and TSM&O
- Capability Maturity Model
- TSM&O Mainstreaming
- TSM&O Master Plan as a tool

# TSM&O Program Overview

- Current challenges in South Florida
  - Congestion
  - Incident Management
  - Safety
  - Organizational
  - Funding



# TSM&O Program Overview

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- Freeway, arterial and transit performance
- Actively manage the multimodal transportation network
- Leverage existing infrastructure
- Positive safety and mobility outcomes

A real-time approach involving “taking back” capacity lost due to recurring congestion and congestion created by traffic incidents



# Traffic Management

- Traveler Information Systems
- Event Management

# Intelligent Transportation Systems

- Traffic Detection & Surveillance
- Adaptive Traffic Control

# Supporting Programs

- Road Rangers
- Integrated Corridor Management

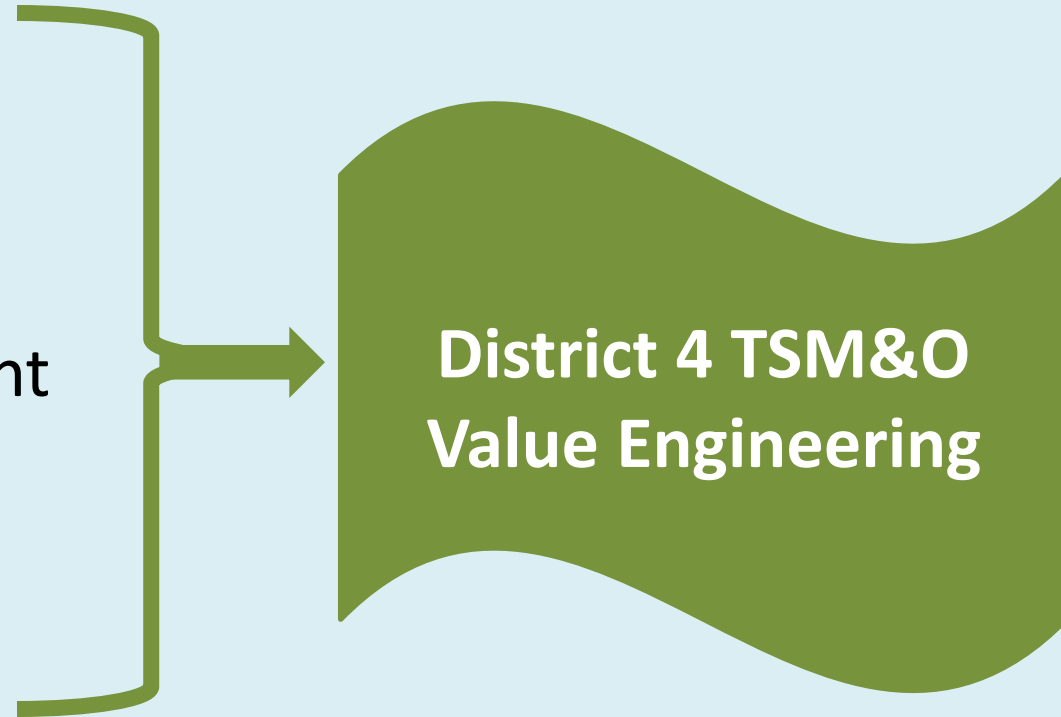
# Modal Management

- Freight and commercial vehicle
- Bus Rapid Transit

# Capability Maturity Framework

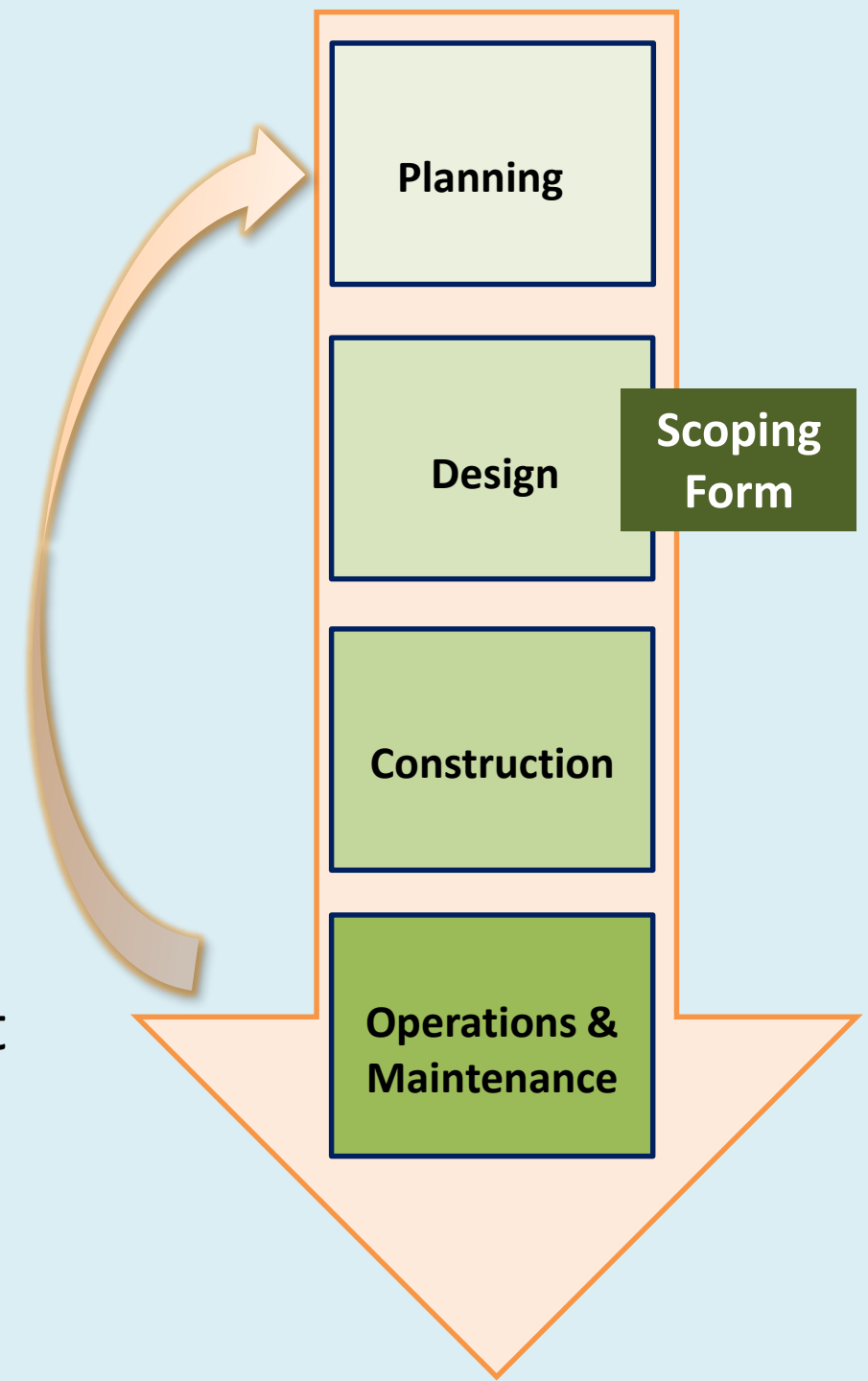
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- Six dimensions:
  - Business Processes
  - Systems and Technologies
  - Performance Measurement
  - Culture
  - Organization and Staffing
  - Collaboration



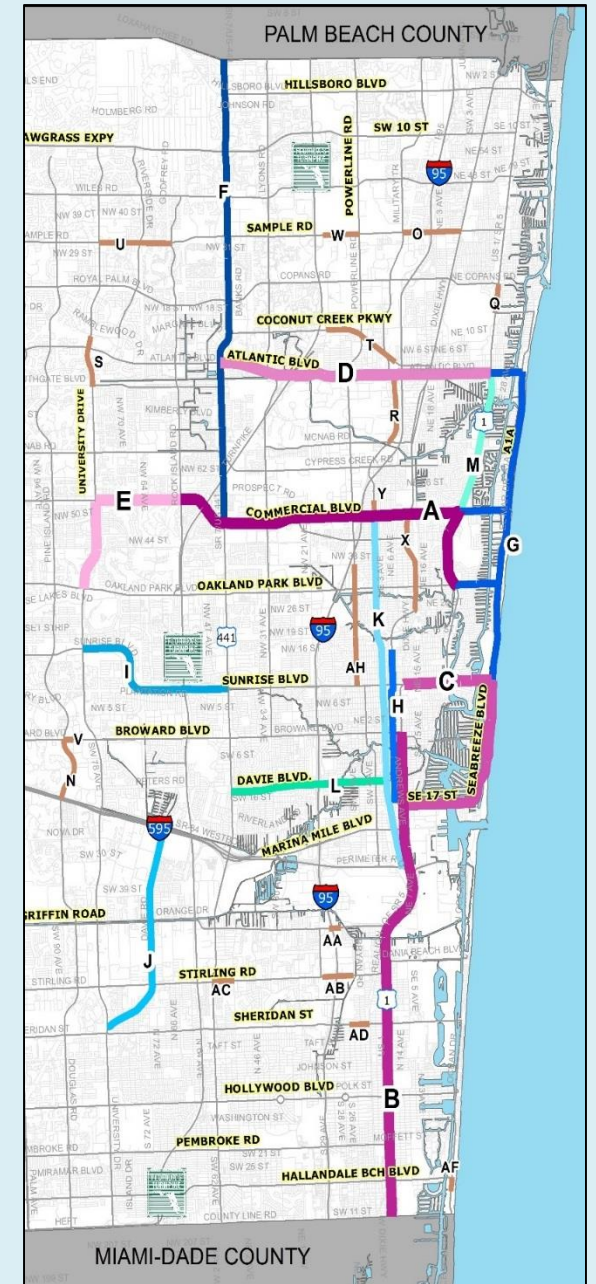
# Mainstreaming TSM&O

- All development phases have a role in TSM&O project development
  - Planning TSM&O projects
  - Integrating multimodal solutions
  - Incorporating strategies into design
  - Constructing stand-alone TSM&O projects
  - Maintaining infrastructure & equipment
- TSM&O Scoping Form for projects



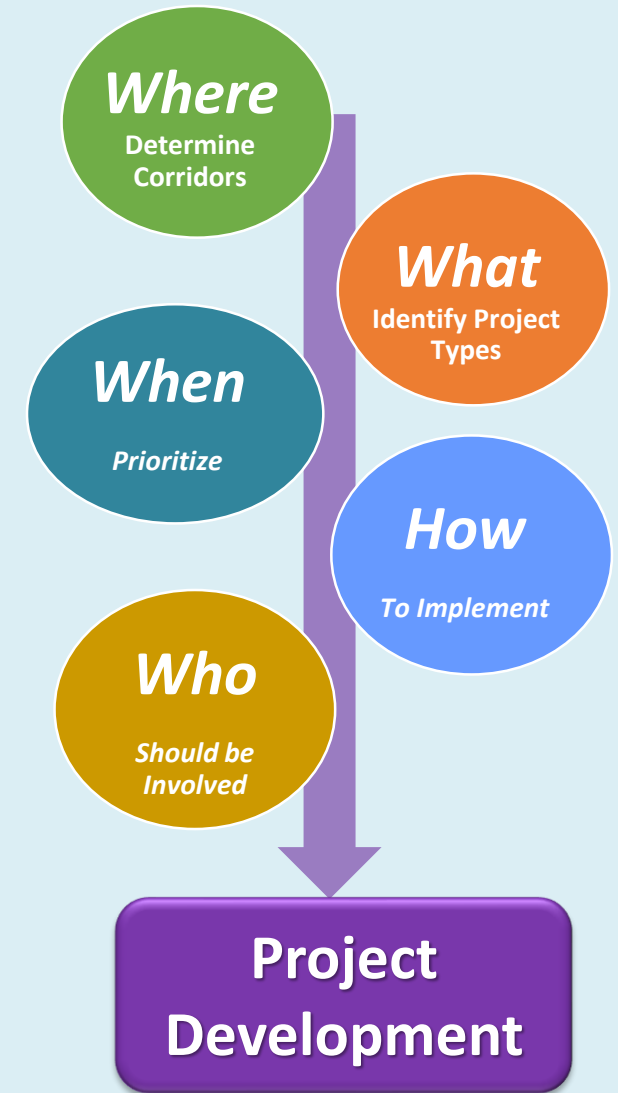
# Mainstreaming TSM&O

- TSM&O Training for District employees
- Using master plan as organizing framework
  - Longer range planning
  - Proposed projects
  - Strategic plans being incorporated
  - Outreach with M/TPOs and signal maintaining agencies



# D4 TSM&O Master Plan

- Joint effort carried out by PLEMO, Traffic Ops and OMD started in 2016
- Build consensus among District offices
- Broward & Palm Beach first; now Martin, St. Lucie & Indian River
- Use resources effectively and efficiently, leveraging the existing ITS infrastructure
- Address mobility needs by actively implementing TSM&O solutions, especially where capacity is limited



# Consistency with Statewide Plan

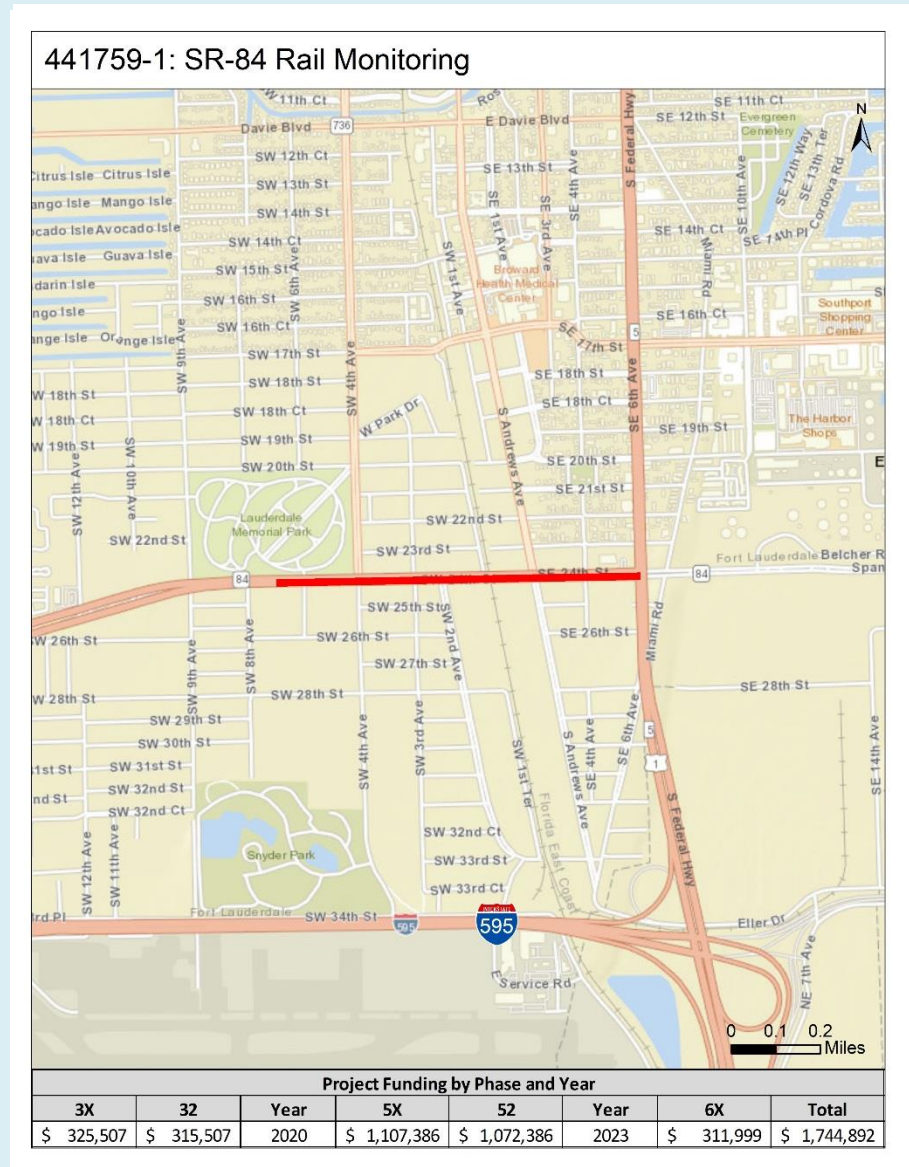
## Direction for State and Districts

- Seven objectives:
  - ✓ Mainstream
  - ✓ Identify – innovation, technologies, tools, resources
  - ✓ Prioritize – statewide and regional focus areas
  - ✓ Develop – partnerships, processes, resource plans
  - ✓ Implement – focus areas
  - ✓ Operate and Maintain
  - ✓ Measure effectiveness



# Outcome of Master Plan

- Adopted Projects
  - US 1 – Broward County line to Spanish River Blvd
  - SR A1A – Fort Lauderdale Beach/Port Everglades
  - Commercial Blvd
  - Hallandale Signal Performance
  - Rail Monitoring at SR 84
- Pending Projects
  - US 27 – Fiber connection for ITS devices (fog)
  - Rail Monitoring at Other Locations



# 2018 Prudential Productivity Award



# Ongoing TSM&O Effort

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- District 4 TSM&O multi-disciplinary coordination
- Encourage partner collaboration and coordination
- Advanced Transportation and Congestion Management Technologies Deployment (ATCMTD) Grant
- Ongoing master plan additions:
  - Freight/commercial vehicles
  - Connected and automated vehicles
  - Integrated Corridor Management (ICM)



# Lessons Learned

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- Technology supports mobility solutions
- Plan, design, build, operate, and maintain applies to TSM&O
- Collaboration and coordination is integral to successful strategies
- Master Plan is a tool to help focus priorities and investments



# Thank you!

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*Questions or Comments?*

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