District 10 / FSITE Annual Meeting

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Agenda

• 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

- 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

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

District 4 TSM&O Value Engineering
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

PRESENTED TO THE
TSM&O Master Plan
Task Team
MEMBERS
MIN-TANG LI
MELISSA ACKERT
KHALILAH FFRENCH
JONATHAN FORD
ALLISON GLUNT

For your innovation, dedication, and commitment to excellence, your work enhances productivity within state government, and the lives of all Floridians.

Prudential

For more information on the Prudential Productivity Awards, please visit www.prudential.com.
Ongoing TSM&O Effort

• 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

• 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!

Questions or Comments?

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