



# FACT SHEET

## Mainstreaming TSM&O: From Policy to Practice

### PROJECT TITLE

BDV29 977-46: Developing Florida-Specific Mobility Enhancement Factors (MEFs) and Crash Modification Factors (CMFs) for TSM&O Strategies

### STUDY TIMELINE

September 2018 – March 2020

### INVESTIGATORS

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### FURTHER RESOURCES

[Final Report](#)

### Introduction

This research focused on quantifying the mobility and safety benefits of the following TSM&O strategies:

- |                       |   |
|-----------------------|---|
| Ramp Metering Systems | Transit Signal Priority (TSP)             |
| Dynamic Message Signs | Adaptive Signal Control Technology (ASCT) |
| Road Rangers          | Express Lanes                             |

Mobility performance measures include travel time, travel time reliability, average speed adjustment, and incident clearance duration. Safety performance measures include crash occurrence risk, secondary crash occurrence risk, and crash frequency.



### Project Outcomes

- Mobility Enhancement Factors (MEFs)
- Crash Modification Factors (CMFs)
- One-page summary of each strategy
- TSM&O Strategies Assessment Tool

### Potential Impacts and Benefits

This project developed all the necessary tools to assist agencies in quantifying the safety and mobility benefits of TSM&O strategies.

Based on the TSM&O strategy deployed, the specific quantitative benefits include

- Fewer crashes: up to 15% reduction in crashes
- Lives saved: ~5% of total fatalities
- Operations improvement: at least 25% reduction in incident clearance time
- Congestion reduction: 20%-50% reduction in Buffer Index