2020 Winter Workshop
Florida Section ITE

ACTIVE ARTERIAL MANAGEMENT AND PERFORMANCE MEASURES

MANAGEMENT AND REPORTING

Florida Section • District 10

Hosted By:

FDOT

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Agenda

1. Introduction to Active Arterial Management (AAM)
2. AAM Program – FDOT District Three
3. AAM Program – FDOT District Five

   Networking Break
4. AAM Program – FDOT District Six

   Lunch
5. AAM Program – FDOT District Four
6. AAM Program – City of Gainesville
7. AAM Program – Manatee County
8. Automated Traffic Signal Performance Measures (ATSPM) – Implementation and Use Cases

   Networking Break
9. Arterial Performance Measure Reporting
10. Hillsborough County MPO's Data Platform

Info

Introduction to Active Arterial Management

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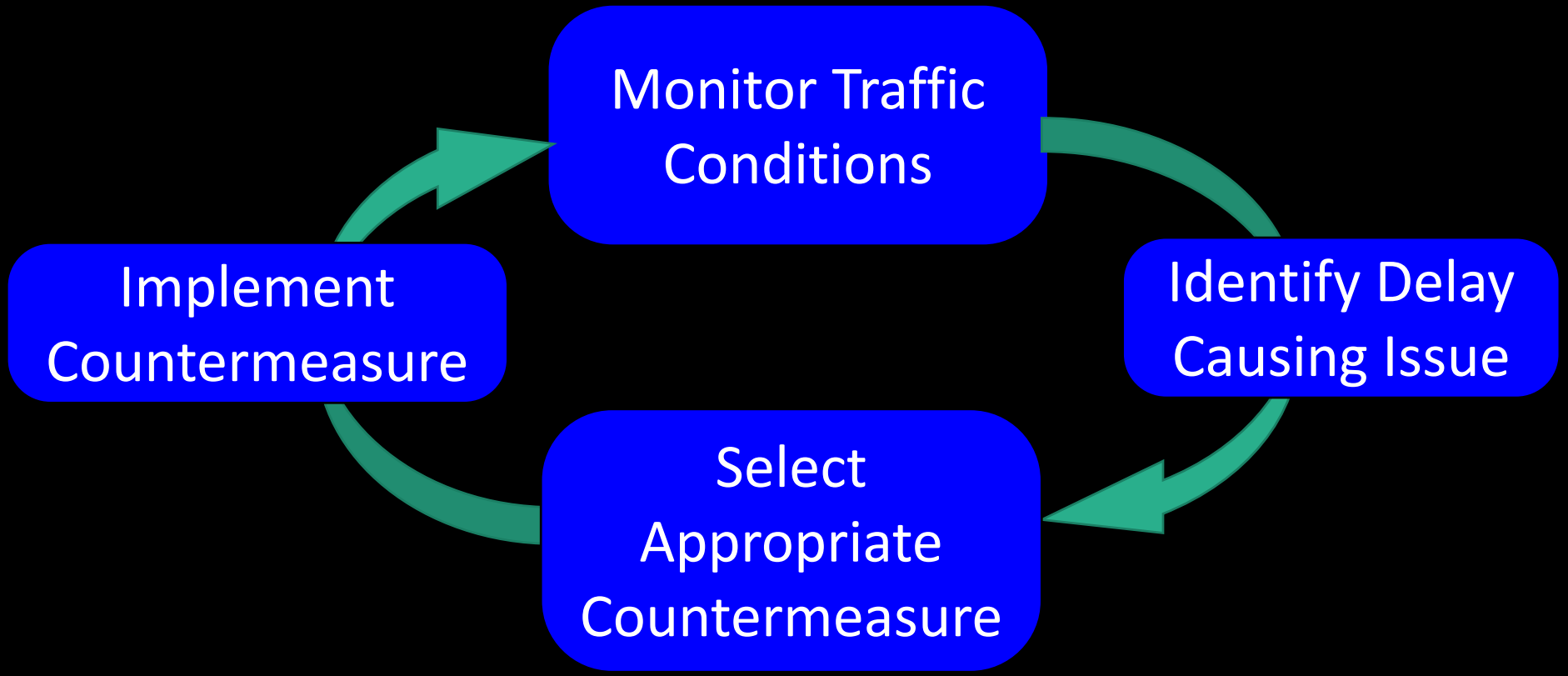
What is Transportation Systems Management and Operations (TSM&O)?

- Measuring transportation performance
- Actively managing the transportation network
- Providing beneficial safety and mobility outcomes to the public

TSM&O

On-going Management Process

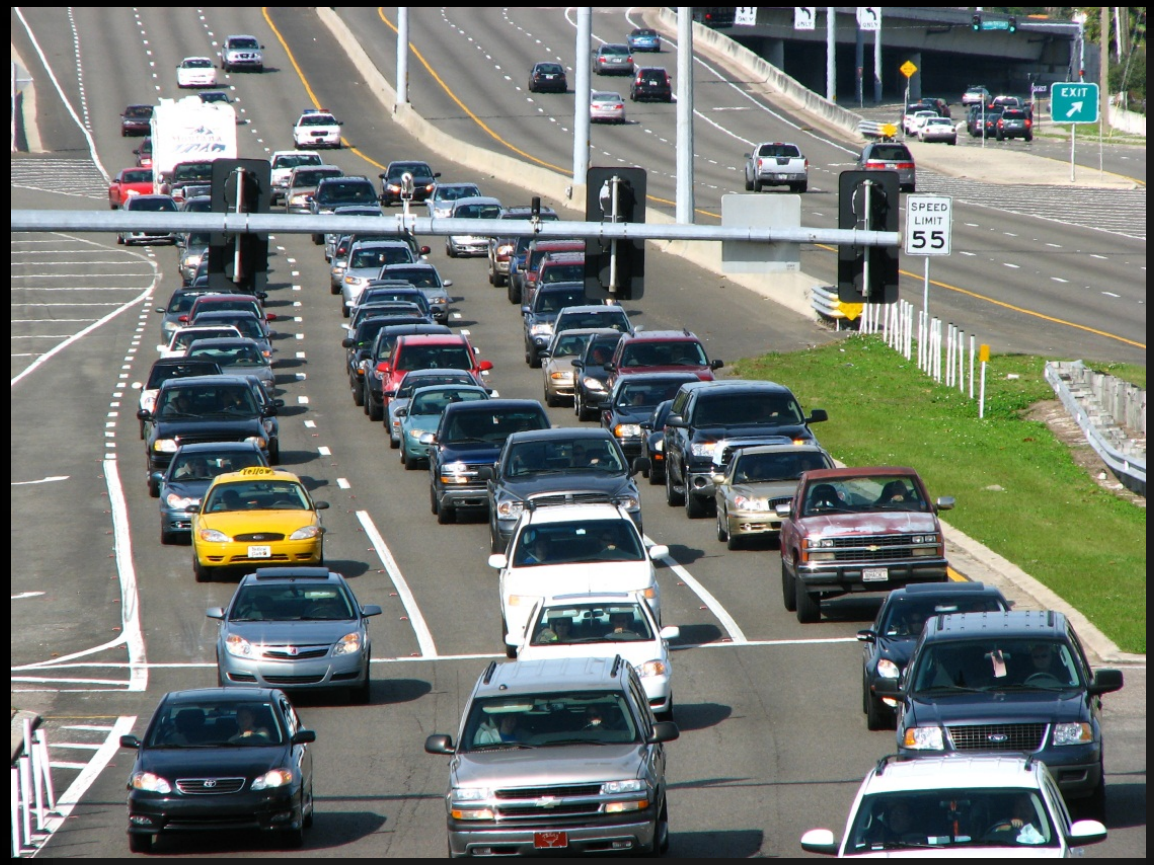


TSM&O

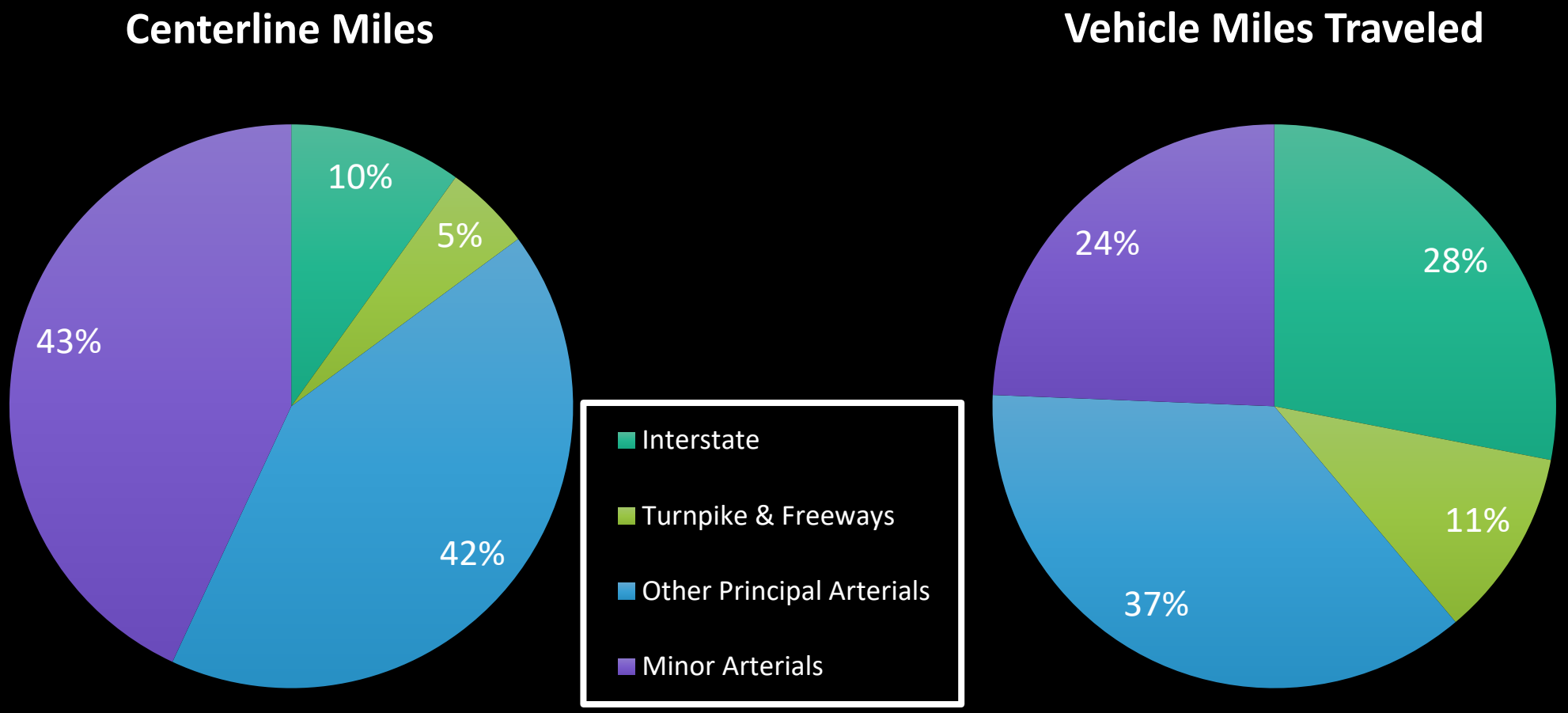
- Not a new concept in freeway operations

TSM&O

- A relatively new concept in surface street arterial operations

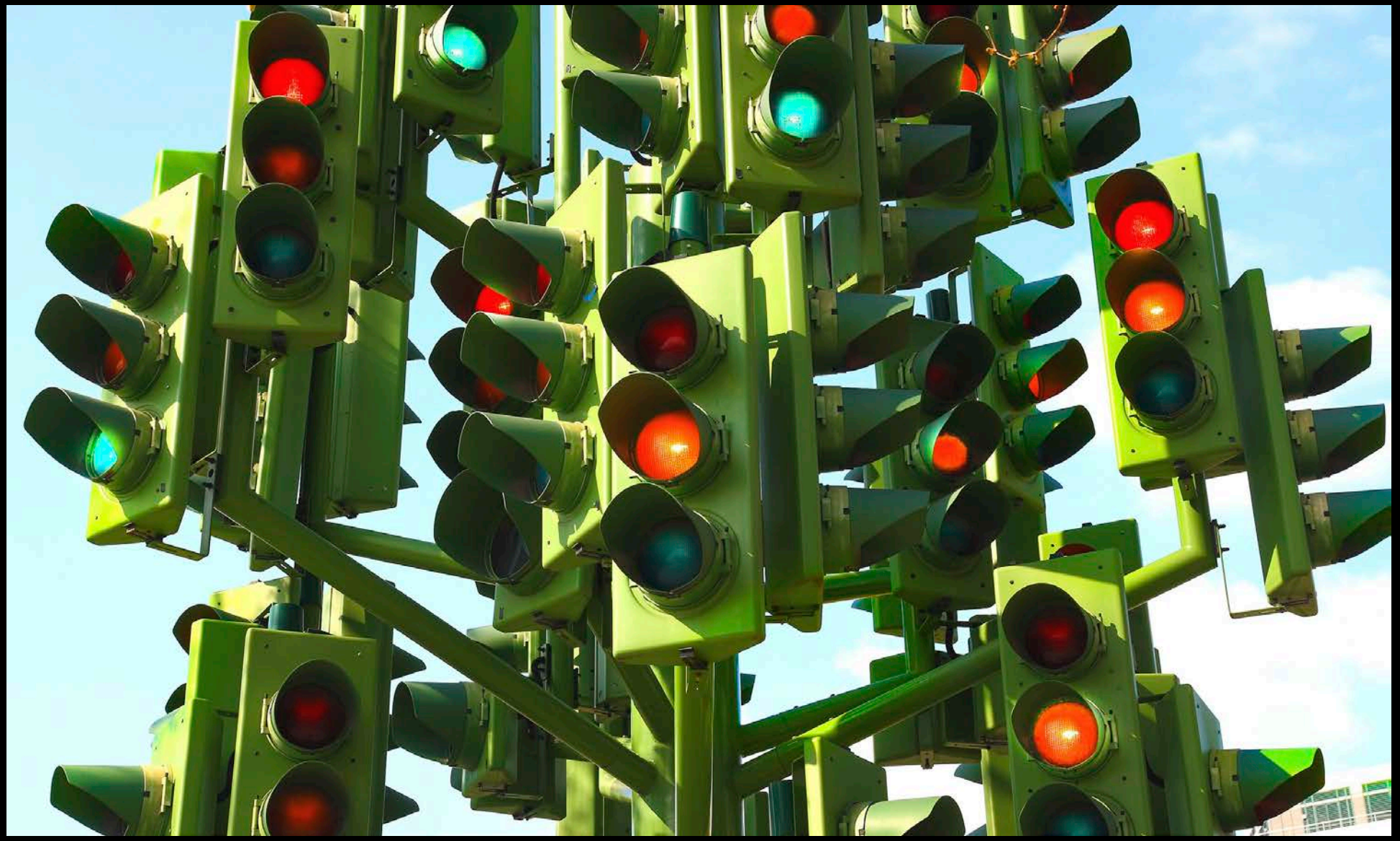


Statistics – Florida's Roadways

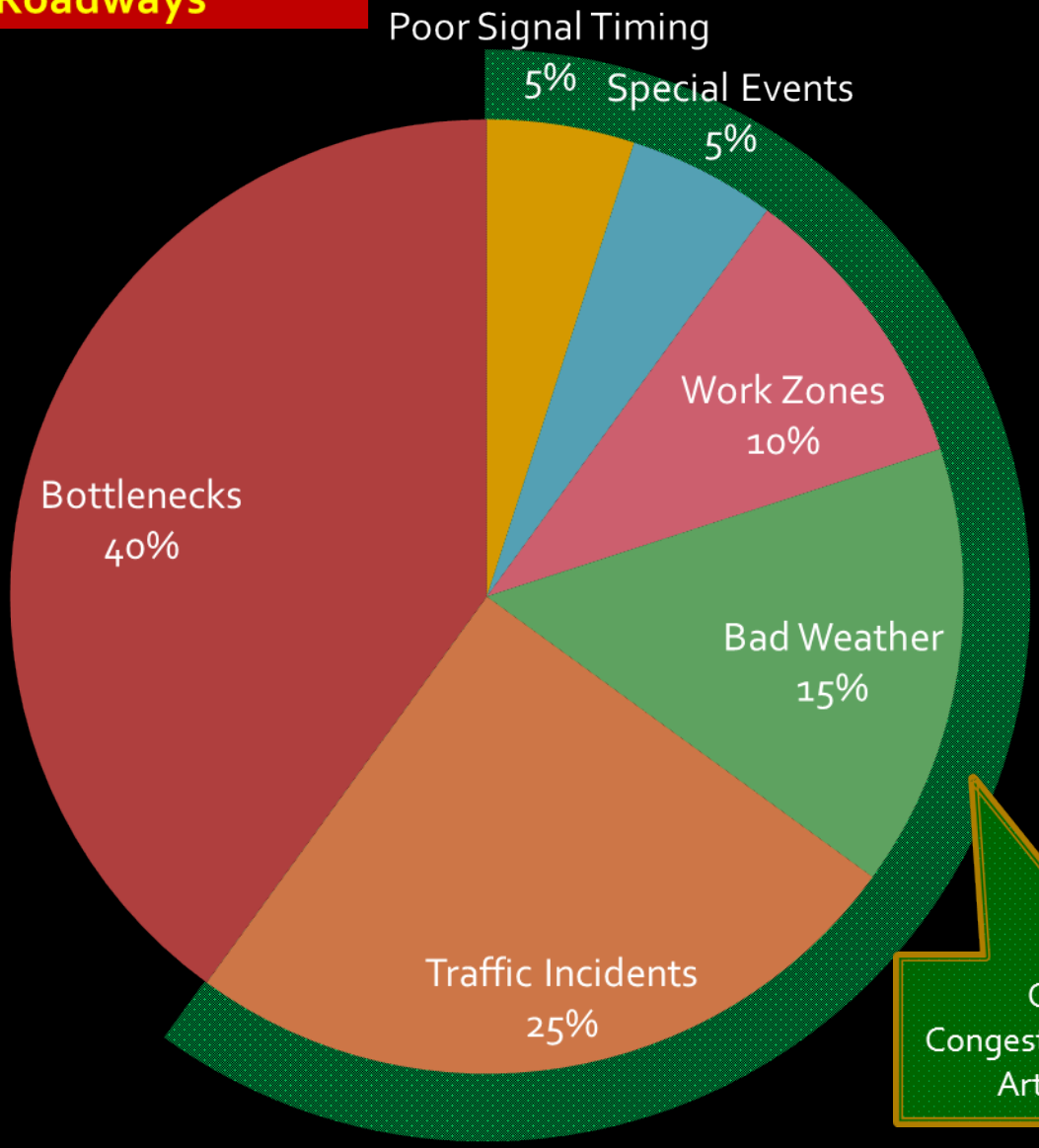


Source: FDOT Public Road Mileage and Miles Traveled

One Major Difference in Arterial Types



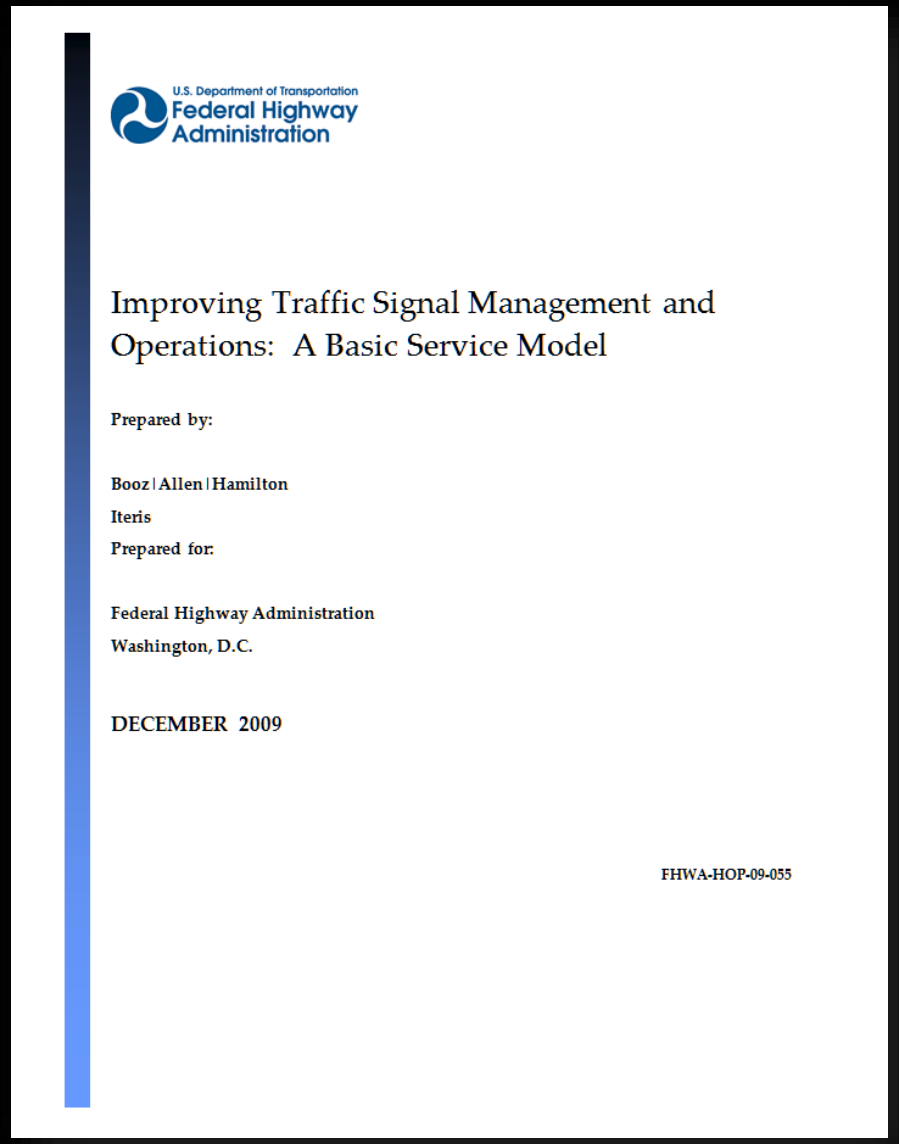
Causes of Traffic Congestion
Arterial Roadways



Opportunities for Congestion Mitigation through Arterial Management

Based on FHWA Report:
Traffic Congestion and Reliability: Linking Solutions to Problems
July 2004

Traffic Signals: A Basic Service Model



U.S. Department of Transportation
Federal Highway Administration

Improving Traffic Signal Management and Operations: A Basic Service Model

Prepared by:

Booz | Allen | Hamilton
Iteris

Prepared for:

Federal Highway Administration
Washington, D.C.

DECEMBER 2009

FHWA-HOP-09-055

"The industry often promises what it cannot deliver, and then fails to deliver what it could, with better commitment and resources."

http://ops.fhwa.dot.gov/publications/fhwahop09055/fhwa_hop_09_055.pdf

The Basic Service Concept

- Clarity of Objectives
- Attainable Performance Measures and Standards of Performance
- Field Infrastructure Reliability
- Signal Timing
- Objective-Based Resource Allocation
- Clear Communications Up the Line
- Meaningful Systems Engineering

Improving Traffic Signals Maintenance and Operations: A Basic Service Model

A Simple Objective

"We will do our best to avoid making drivers stop, but when we must make them stop, we will delay them as little as possible, within the context of safe operation."

How Do We Know If We Are Achieving This Simple Objective?

Applications and Practices to Improve Traffic Incident Management

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District Five - Active Arterial Management (AAM) Strategies and Initiatives

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Networking Break

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Active Arterial Management Projects in Miami-Dade and Monroe Counties

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Lunch

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District Four – Active Arterial Management (AAM) Strategies and Initiatives

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City of Gainesville's Active Arterial Management and Performance Measures Initiatives

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Manatee County's Active Arterial Management and Performance Measures Programs

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Arterial Performance Measure Reporting: Three Agencies Case Studies

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Networking Break

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Automated Traffic Signal Performance Measures Implementation and Use Cases

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Hillsborough MPO's Data Platform for Performance Monitoring and Project Evaluation

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