Regional Transportation Systems Management and Operations (TSMO) Plan:
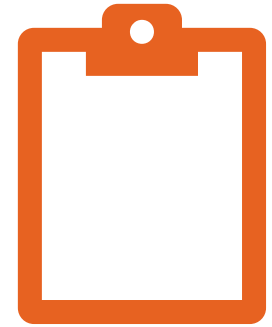# Survey and Workshop 1

Transportation Coordinating Committee

January 4, 2019

Task List

1. Develop a Regional TSM&O Vision
2. Document Current TSM&O Inventory
3. Research Data Governance Best Practices
4. Regional ITS Architecture Update
5. Identify Pilot Concepts for Advanced Technology Deployment
6. Develop Local Agency Deployment Guide
7. Develop Regional Technology Assessment and Strategic Deployment Plan

Regional TSM&O Vision

TSMO today

New modal options and business models

New data sources

Connected and automated vehicles

2040 Vision

WORLD CLASS INFRASTRUCTURE

HEALTHY LIVABLE COMMUNITIES

COMPETITIVE ECONOMY

Stakeholder Survey

➤ What are we doing well?

➤ What are we not doing well?

➤ What should we be doing?

https://www.surveymonkey.com/r/ARCTSMOsurvey

www.surveymonkey.com/r/ARCTSMOsurvey

Atlanta Regional Transportation System Management and Operations (TSMO) Survey

Introduction

Thank you for participating in this survey, sponsored by the Atlanta Regional Commission, to gather input on regional strengths, limitations, and priorities related to transportation system management and operations.
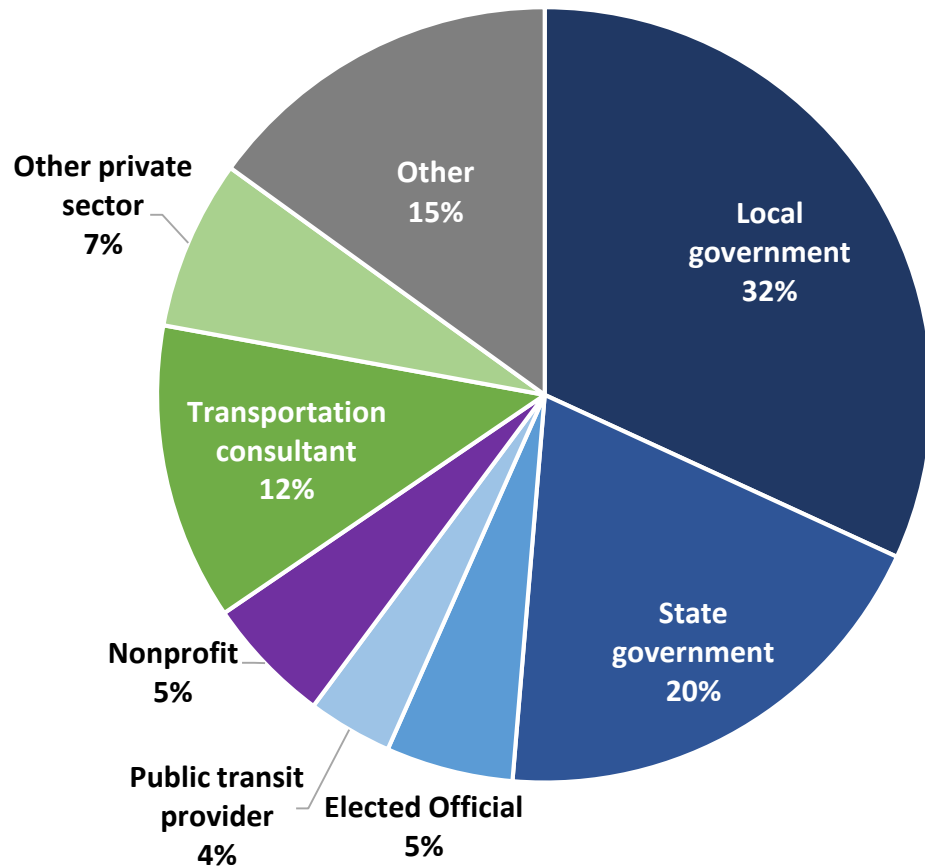
In addition to planning for transportation infrastructure, as a region, we need to optimize how we manage and operate the transportation system. Transportation system management and operations (sometimes referred to as TSMO) involves a wide array of strategies to actively manage the multimodal transportation network to deliver improved safety and mobility outcomes, such as improved traveler information, incident management, work zone management, transit operations, coordinated traffic signal improvements, and integrated corridor management, among others. More information can be found at https://ops.fhwa.dot.gov/tsmo/index.htm. In addition to advancing Intelligent Transportation Systems (ITS) technologies, today's transportation landscape is changing – with new technology-enabled transportation service providers (e.g., web-enabled ride hailing, bike sharing, scooter sharing), vast amounts of "big data", and connected and automated vehicles offering new potential to further optimize system performance.

This survey should take about 15-20 minutes to complete. It is designed to gather input from a broad array of stakeholders throughout the Atlanta region to understand the following in relation to transportation system management and operations:
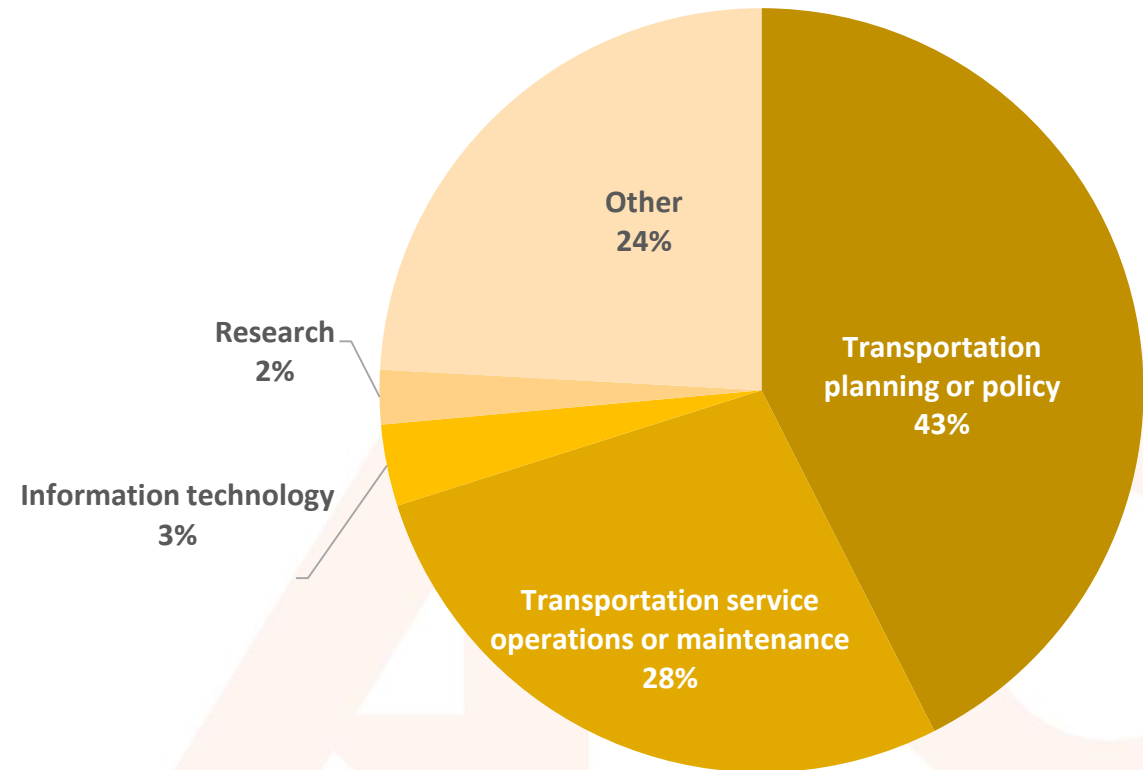
Preliminary Results

110+ Responses to Date

Agency Type

- Local government 32%
- State government 20%
- Elected Official 5%
- Public transit provider 4%
- Nonprofit 5%
- Transportation consultant 12%
- Other private sector 7%
- Other 15%

Role in the transportation industry

- Transportation planning or policy 43%
- Transportation service operations or maintenance 28%
- Information technology 3%
- Research 2%
- Other 24%

Preliminary Results

How well do you think transportation system operations is being optimized…?

Legend: ■ Poor ■ Fair ■ OK ■ Good ■ Excellent

Locally: 8% | 14% | 35% | 34% | 9%

Regionally: 5% | 23% | 40% | 31% | 1%
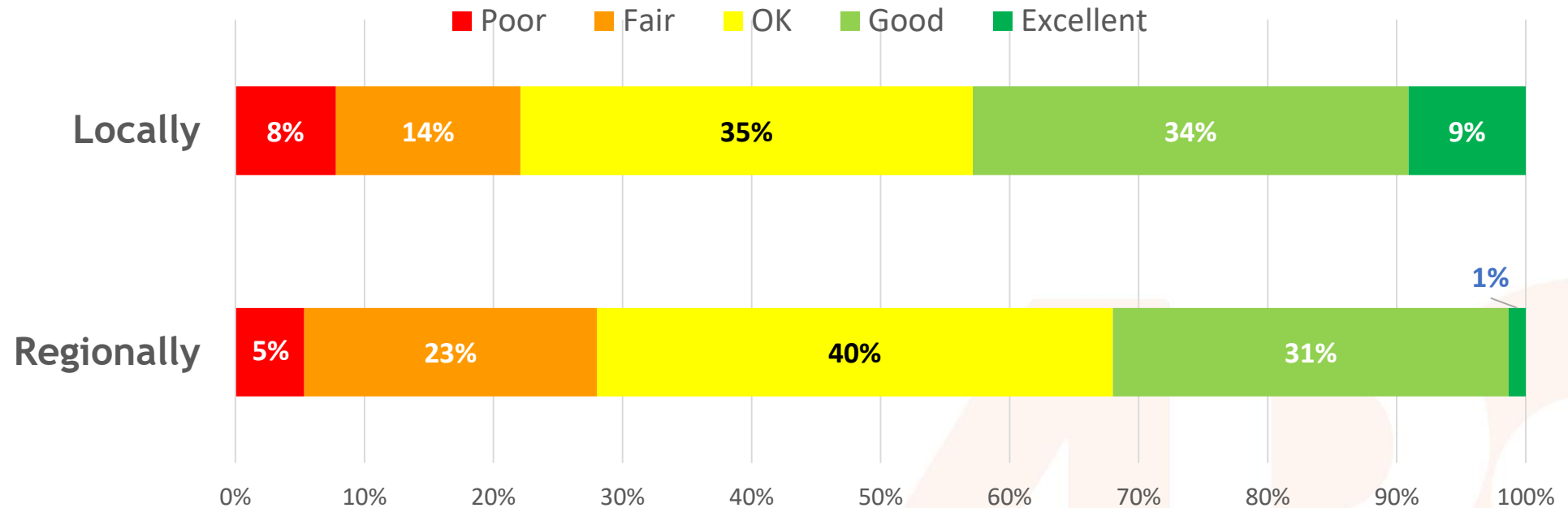
Preliminary Results

Existing conditions in the Atlanta region that create <u>challenges</u> or <u>impediments</u> to advancing transportation system performance and operations?

➤ "Too many jurisdictions for transportation"

➤ "Funding and political will"

➤ "…I hope that there will now be a system that fully integrates the different jurisdictions with their technological capabilities and a willingness to be part of a whole in regard to managing transportation…"

➤ "Poor connectivity places a significant amount of traffic on a few streets which makes good optimization difficult."

➤ "Too big of focus on more roads"

➤ "The blind focus on MARTA"

Preliminary Results

Existing conditions in the Atlanta region that create <u>strengths</u> or <u>opportunities</u> for advancing transportation system performance and operations?

- ➤ "Increased communications between incident response agencies"

- ➤ "Creation of the ATL"

- ➤ "New found support"

- ➤ "We have a lot of support it seems from industry, and other private sources and a good system in place for obtaining funds to help pay for advancing the transportation system and improving performance"

- ➤ "The region is starting to view itself as one area with a common goal rather than individuals"

- ➤ "The GDOT and local programs are working systemically to manage the signal system"

Preliminary Results

Important factors for transportation system operations planning and decisions from a regional perspective over the coming years

Very High

➤ Reducing traffic **congestion**/decreasing travel time

➤ Improving traveler **safety**

High

➤ Supporting increased use of **public transportation**

➤ Enhancing travel time **reliability** or predictability

➤ Reducing **transit** travel times

➤ Supporting **freight** movement / connections

➤ Advancing adoption of other **emerging** technologies

Moderate

➤ Supporting increased use of other **non-drive alone** travel options

➤ **Connecting** communities

➤ Advancing adoption of **connected or automated** vehicle technologies

➤ Improving **air quality**/protecting the environment

➤ Enhancing real-time traveler **information**

➤ Enhancing **equity/access** for disadvantaged populations

➤ Improving **security**

Rank 1-5 for each:
1 = Not important; 2 = Limited importance; 3 = Moderate importance; 4 = Very important; 5 = Extremely important

Preliminary Results

What would you like to see included in a <u>regional vision</u> for transportation systems management and operations?

➤ "For the region's citizens, visitors, and freight haulers to have **safe, reliable, efficient, and equitable travel** through a variety of travel options"

➤ "Increasing the use of **public transit** and increasing the **walking and biking access** to all communities throughout the Atlanta region…"

➤ "**Higher transit/bike/ped integration**…While sidewalks are great, crosswalks are still extremely dangerous at many intersections built only for car movement"

➤ "**Autonomous vehicle operations**, where appropriate. Use of **electric vehicles** (including panel vans, e-bikes and scooters, and to drones to rural areas) for freight pickup/delivery activity."

➤ "Methods and **ways to get information** to any person with a smartphone or electronic device, in a minimum amount of time and effort"

Workshop 1 Visioning: Guest List
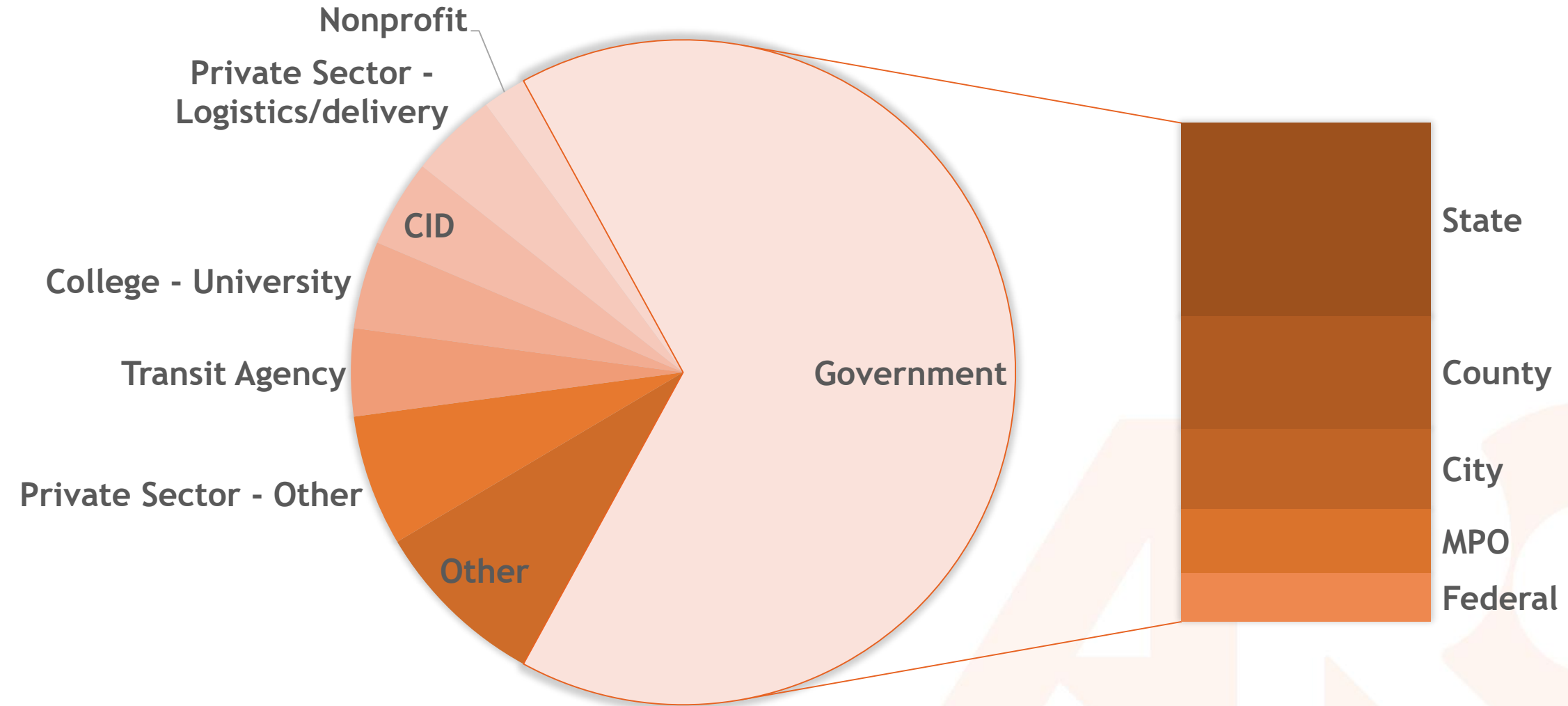
Workshop 1 Visioning: Agenda

➤ Background
  ▪ What is TSMO?
  ▪ Why develop a vision?
➤ Breakout Sessions
  ▪ Safety & Reliability
  ▪ Accessibility
  ▪ Mobility
  ▪ Winning the Future
➤ Introduction to ITS Architecture

Workshop 1 Visioning

Guiding Principles and Objectives Examples

➤ More sophisticated traveler information

➤ Ensure everyone has equal access to information

➤ More coordinated operations within and between agencies

➤ High quality real-time data

➤ Leverage relationships with private sector to make data more accessible

➤ Standardize how data is shared

➤ Manage expectations and support innovation

Next Steps

➤ Workshop 2: Data and ITS Architecture- March

➤ Inventory

➤ Stakeholder Interviews

Questions?

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