local relevance + regional impact

Atlanta Regional Commission
Regional TSMO Planning

March 17, 2021

ITS Carolinas Annual Meeting

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ATLANTA REGIONAL COMMISSION

TSMO Plan Vision and Goals

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Goals / Key Outcomes

OPTIMIZING SAFETY

RELIABLE TRAVEL TIMES

EFFICIENT, SEAMLESS TRAVEL

EQUITABLE ACCESS

ENVIRONMENTAL BENEFITS

Foundational Elements

Collaboration

Philosophy focused on moving people and goods

Data sharing

Culture of innovation

https://atlantaregional.org/TSMO/

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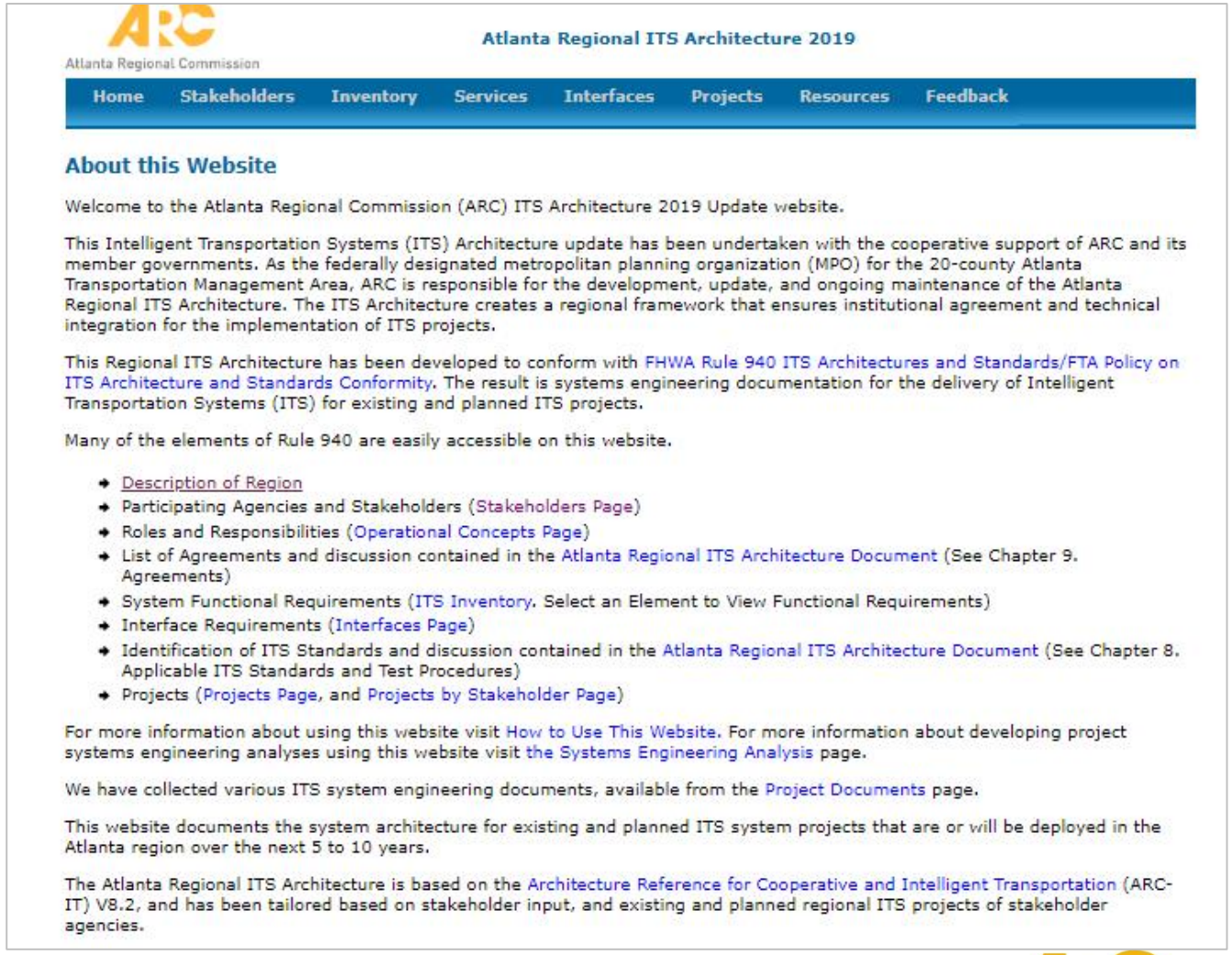
ITS Architecture Update

- Stakeholders - 55
- Elements - 210
- Service Package Diagrams - 248
- Interfaces - 531
- Projects - 97



Atlanta Regional Commission

Atlanta Regional ITS Architecture 2019

Home | Stakeholders | Inventory | Services | Interfaces | Projects | Resources | Feedback

About this Website

Welcome to the Atlanta Regional Commission (ARC) ITS Architecture 2019 Update website.

This Intelligent Transportation Systems (ITS) Architecture update has been undertaken with the cooperative support of ARC and its member governments. As the federally designated metropolitan planning organization (MPO) for the 20-county Atlanta Transportation Management Area, ARC is responsible for the development, update, and ongoing maintenance of the Atlanta Regional ITS Architecture. The ITS Architecture creates a regional framework that ensures institutional agreement and technical integration for the implementation of ITS projects.

This Regional ITS Architecture has been developed to conform with FHWA Rule 940 ITS Architectures and Standards/FTA Policy on ITS Architecture and Standards Conformity. The result is systems engineering documentation for the delivery of Intelligent Transportation Systems (ITS) for existing and planned ITS projects.

Many of the elements of Rule 940 are easily accessible on this website.

- Description of Region
- Participating Agencies and Stakeholders (Stakeholders Page)
- Roles and Responsibilities (Operational Concepts Page)
- List of Agreements and discussion contained in the Atlanta Regional ITS Architecture Document (See Chapter 9. Agreements)
- System Functional Requirements (ITS Inventory. Select an Element to View Functional Requirements)
- Interface Requirements (Interfaces Page)
- Identification of ITS Standards and discussion contained in the Atlanta Regional ITS Architecture Document (See Chapter 8. Applicable ITS Standards and Test Procedures)
- Projects (Projects Page, and Projects by Stakeholder Page)

For more information about using this website visit How to Use This Website. For more information about developing project systems engineering analyses using this website visit the Systems Engineering Analysis page.

We have collected various ITS system engineering documents, available from the Project Documents page.

This website documents the system architecture for existing and planned ITS system projects that are or will be deployed in the Atlanta region over the next 5 to 10 years.

The Atlanta Regional ITS Architecture is based on the Architecture Reference for Cooperative and Intelligent Transportation (ARC-IT) V8.2, and has been tailored based on stakeholder input, and existing and planned regional ITS projects of stakeholder agencies.

http://itsarchitecture.atlantaregional.org/

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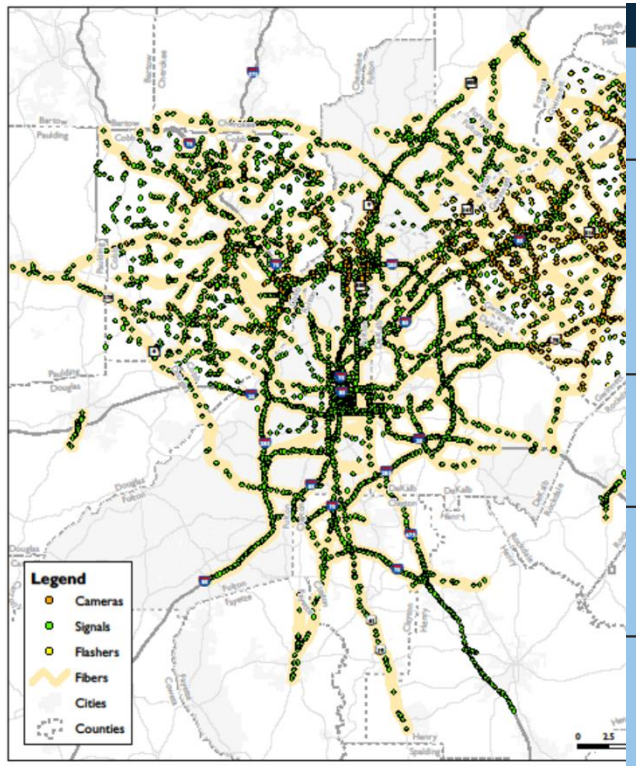
Data, Research, Other Products

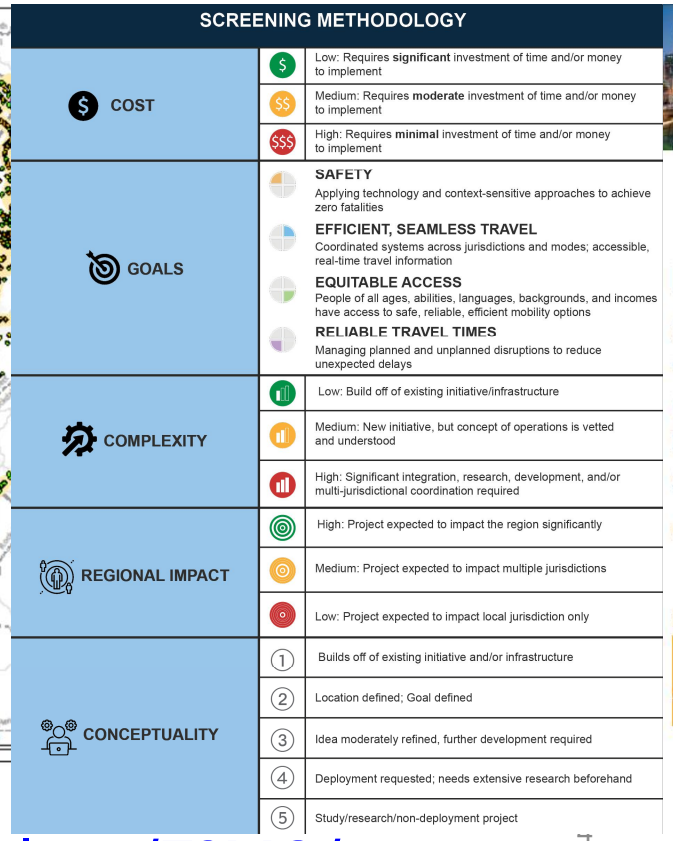
Regional Inventory

Data Governance

Pilot Project Screening Assessment

Local Agency Deployment Guide





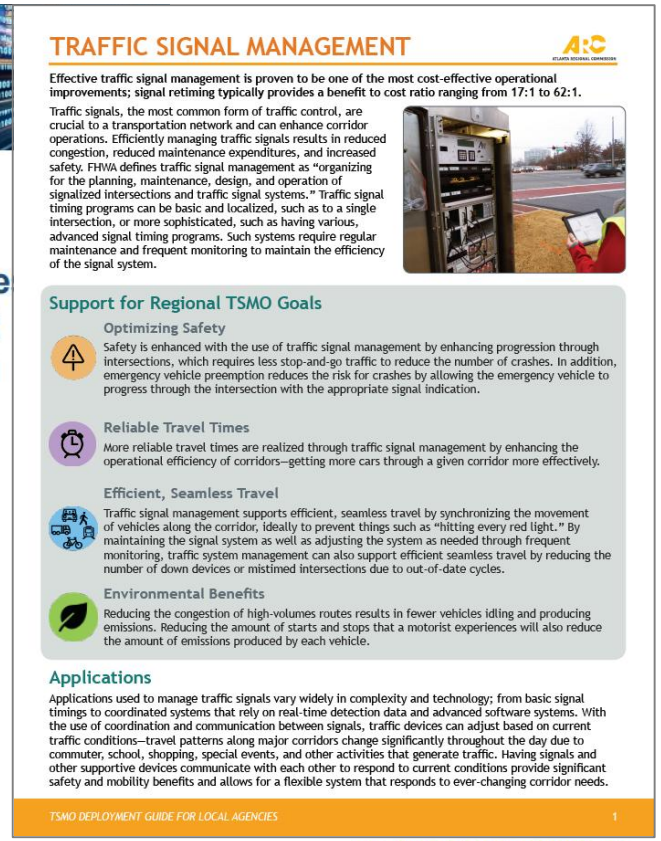
Data Governance Best Practice and Recommendations Report

Transportation System Management and Operations (TSMO) Vision and Regional Intelligent Transportation Systems (ITS) Architecture Update

Final — May 24, 2019

Prepared for

ARC



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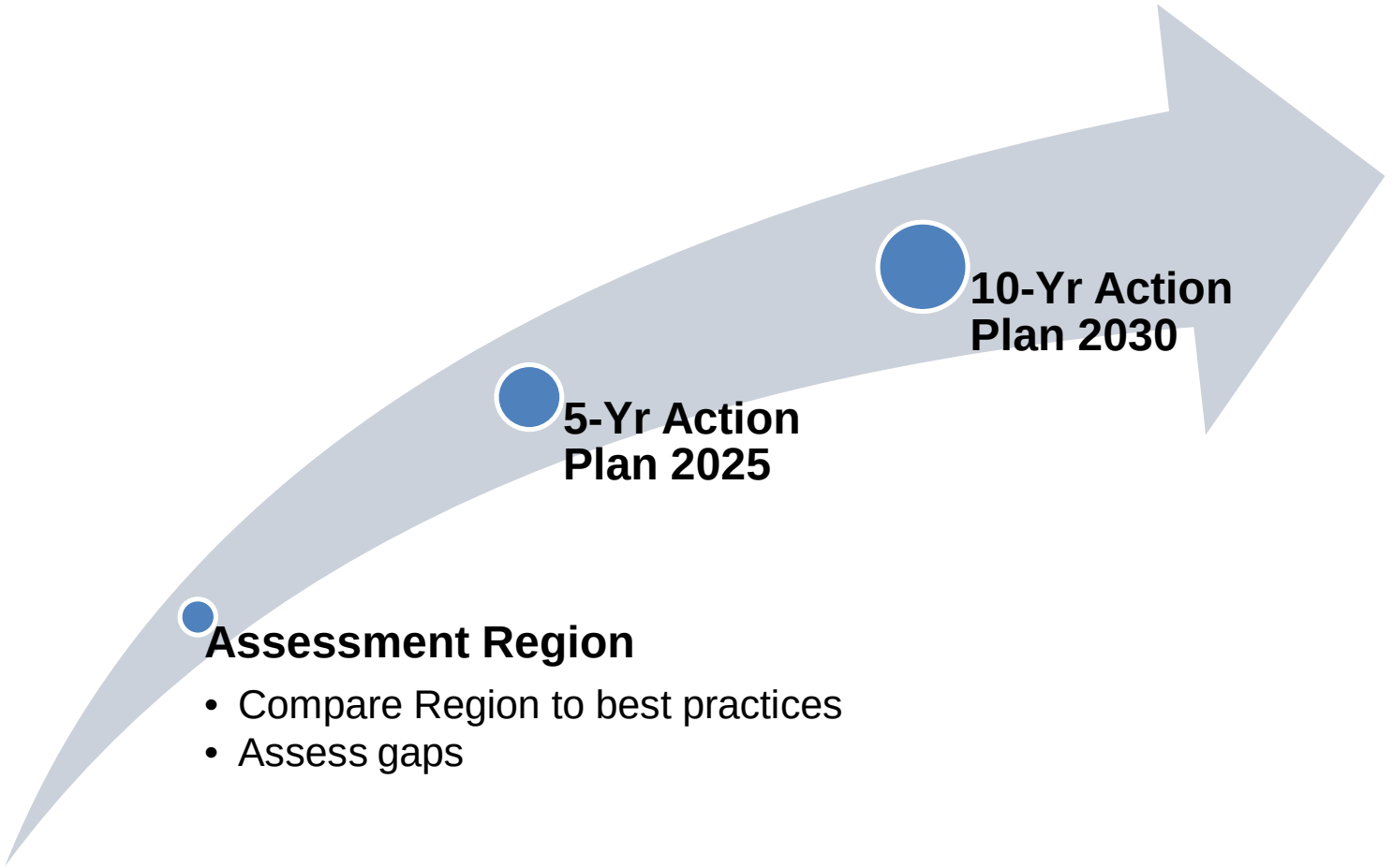
Regional TSMO Strategic Plan



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Strategic Initiatives

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Foundational Elements Focused Initiatives

- Strengthen TSMO Planning & Institutions
- Enhance Data Sharing & Management
- Encourage TSMO Innovation

Deployment Focused Initiatives

- Deploy Connected & Automated Vehicle Technologies
- Advance Regional Coordination & Network Communications
- Strengthen Work Zone & Event Management
- Enhance Transit Operations
- Advance Mobility as a Service

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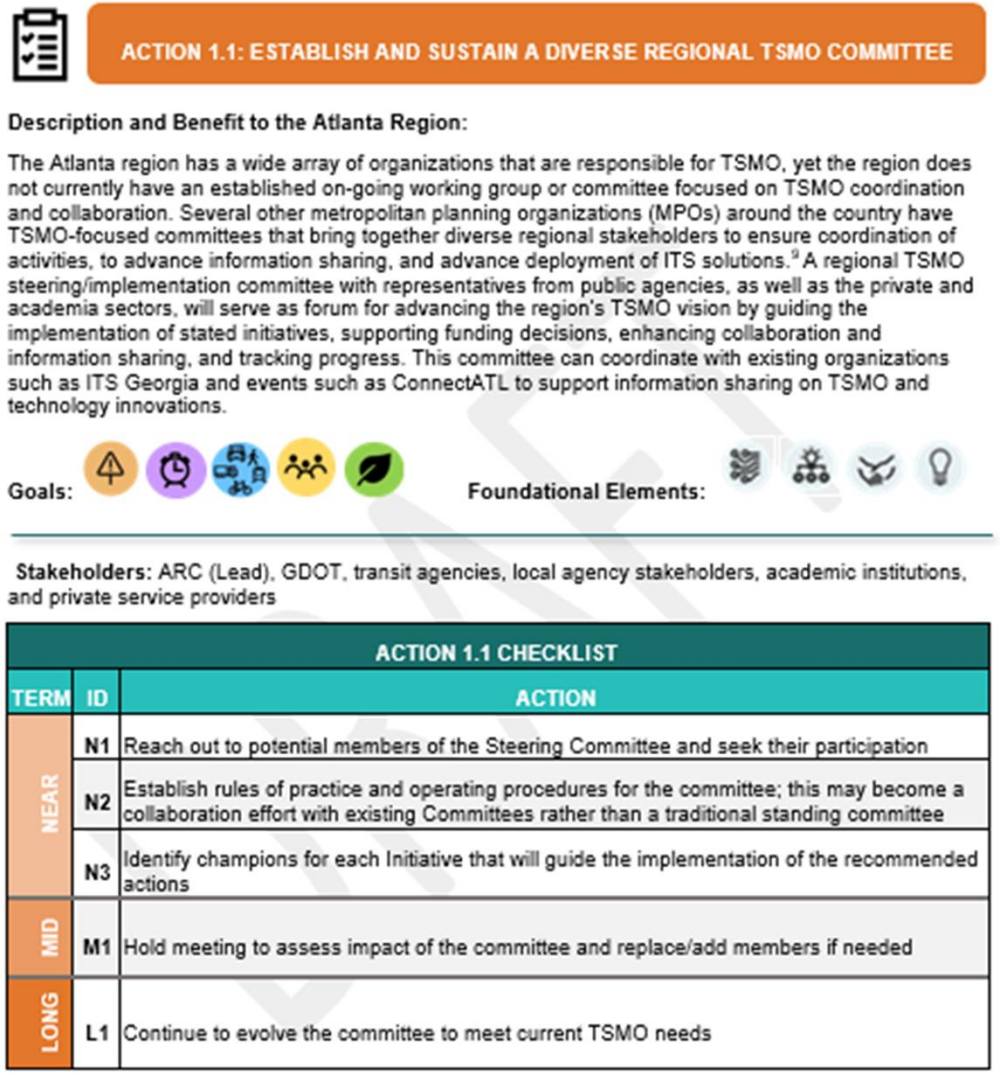
Initiative Actions

- 8 Initiatives
- 31 Actions
- 208 Checklist Steps



ACTION 1.1: ESTABLISH AND SUSTAIN A DIVERSE REGIONAL TSMO COMMITTEE

Description and Benefit to the Atlanta Region:

The Atlanta region has a wide array of organizations that are responsible for TSMO, yet the region does not currently have an established on-going working group or committee focused on TSMO coordination and collaboration. Several other metropolitan planning organizations (MPOs) around the country have TSMO-focused committees that bring together diverse regional stakeholders to ensure coordination of activities, to advance information sharing, and advance deployment of ITS solutions.[9] A regional TSMO steering/implementation committee with representatives from public agencies, as well as the private and academia sectors, will serve as forum for advancing the region's TSMO vision by guiding the implementation of stated initiatives, supporting funding decisions, enhancing collaboration and information sharing, and tracking progress. This committee can coordinate with existing organizations such as ITS Georgia and events such as ConnectATL to support information sharing on TSMO and technology innovations.

Goals: **Foundational Elements:**

Stakeholders: ARC (Lead), GDOT, transit agencies, local agency stakeholders, academic institutions, and private service providers

ACTION 1.1 CHECKLIST		
TERM	**ID**	**ACTION**
NEAR	N1	Reach out to potential members of the Steering Committee and seek their participation
NEAR	N2	Establish rules of practice and operating procedures for the committee; this may become a collaboration effort with existing Committees rather than a traditional standing committee
NEAR	N3	Identify champions for each Initiative that will guide the implementation of the recommended actions
MID	M1	Hold meeting to assess impact of the committee and replace/add members if needed
LONG	L1	Continue to evolve the committee to meet current TSMO needs

https://atlantaregional.org/TSMO/

Implementation

- Regional TSMO Subcommittee
  - First meeting February 17, 2021
  - Over 40 Attendees
- CV1K: Regional Connected Vehicle Program
- Joint Data Purchasing Program