Regional Active Transportation Roundtable & Regional Safety Task Force

5 February 2026

Zoom Meeting

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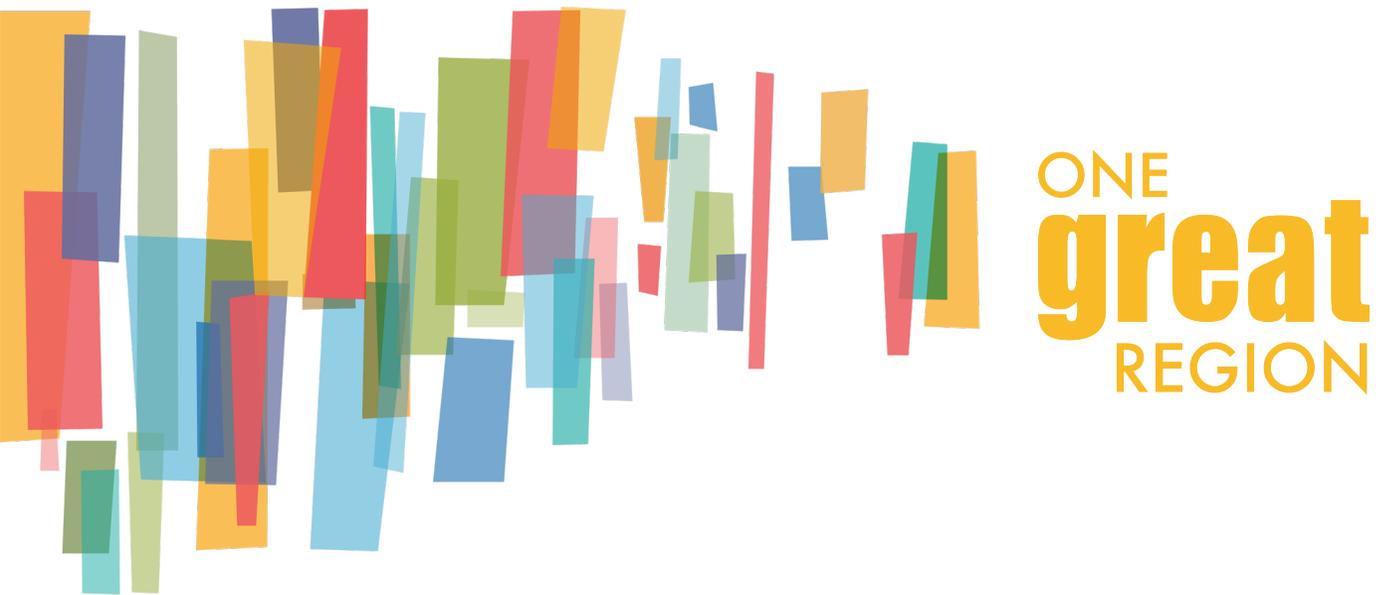
ARC

Agenda

- Welcome & Introductions
  - *Eric Meyer - ARC*
- AASHTOWare
  - *Greg Olsen - Numetric*
- Q&A
- 2026 Roundtable Schedule

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AASHTOWare

Greg Olsen, Sr. Manager of Education and Sales Enablement

Numetric

ARC
Atlanta Regional Commission

Crash Data Reporting, and Network Screenings using AASHTOWare Safety

Greg Olsen | Numetric Inc.
February, 2026

Overview

This training will show you how you can use AASHTOWare Safety to:

- Generate custom crash data reports based on key datapoints
  - Crash Data (date, time, severity, crash type, Bicycle, Pedestrian, etc.)
  - Spatial Data (distance from a location, route, geographic filter, etc.)
  - GDOT Custom filters (left turn, versus opposing through, holidays, etc.)
  - Vulnerable Roadway User data (SVI, Near Bus Stop crashes, Near school crashes)
- Conduct Network Screenings to identify areas for safety improvement
  - Countermeasure based screenings
  - SVI, bike, Ped screenings
- Generate a Collision Diagram for an Intersection
- Generate a Benefit Cost calculation for a selected safety improvement

AASHTOWare™
SAFETY
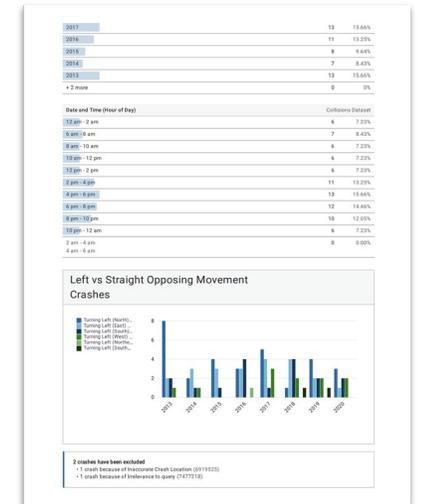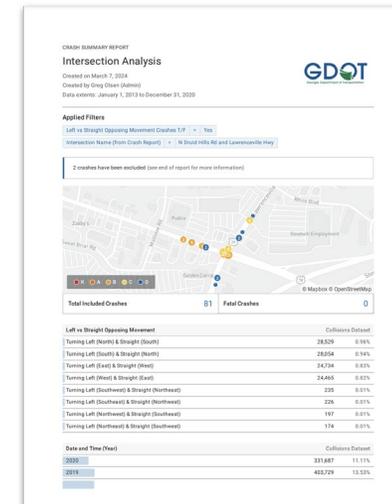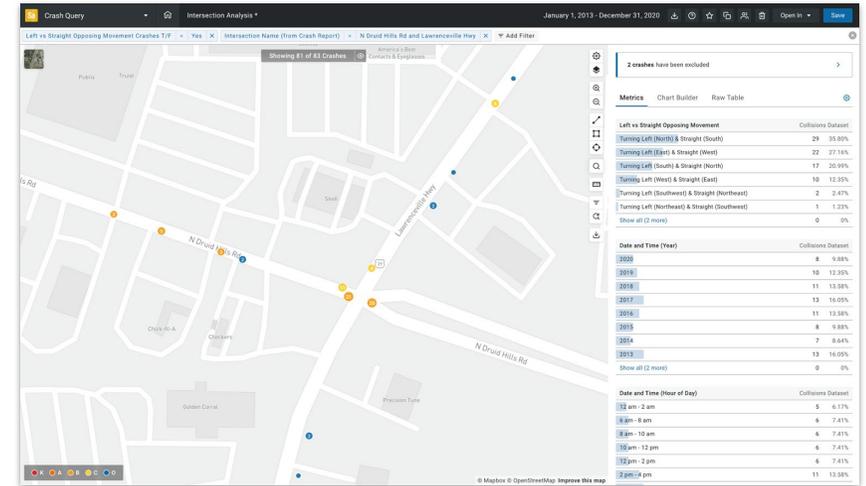numetric™

GDOT.aashtowaresafety.com

Crash Query

Purpose of Crash Query

- Ability to Query and view Crash, Vehicle, and Occupant Level Data across Georgia

- Explore crashes in a GIS interface

- Natural-language search bar

Crash Query Deliverables

- Crash Reports
  - Summary
  - Overrepresentation
  - Comparison

- Charts

- Raw Table Download

Network Screening

Purpose

- Conduct a Segment, Intersection, or Sliding Window Analysis

- Rank Segments, intersections, or Windows by observed or expected/predicted performance measures

- Create custom rankings, including ranking by countermeasure, geographic region, or roadway/crash characteristic.

Deliverables

- On-demand Network Screenings

- Network Screening Reports

- Spreadsheet downloads
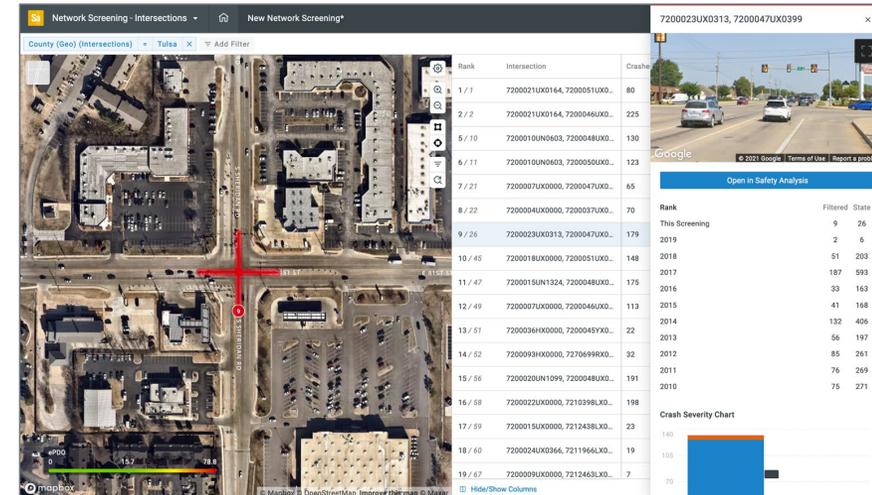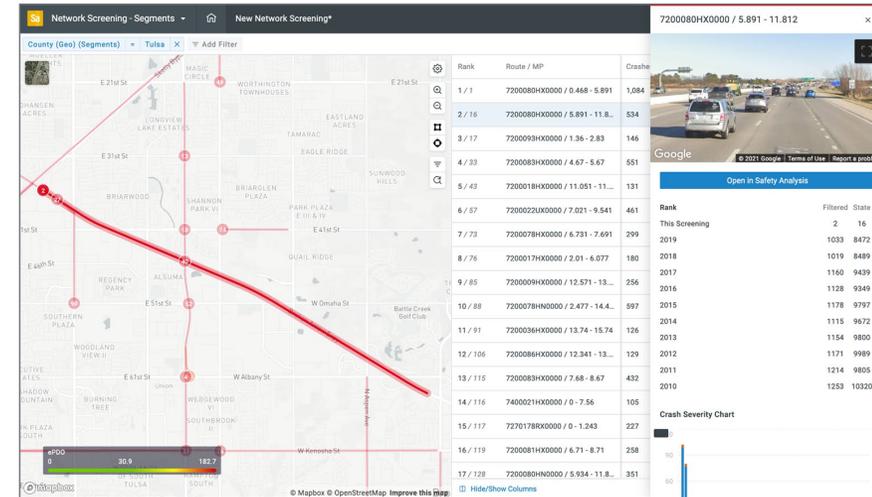
Network Screening Methods

Segment = Roadways broken down into segments based on roadway attributes. Excludes intersection Crashes (When Intersections is active)

Intersection = Breaks out intersection crashes based on crash location.

Sliding Window = Roadways broken down into windows based on length. Not impacted by intersections.

Network Screening Performance Measures

Observed = Historical crashes of record

(Crash count, Fatal crash count, Crash rate, Crashes per mile, ePDO)

Predicted = Crashes predicted by the SPF

(Predicted crashes, Predicted crash rate, Predicted crashes per mile)

Expected = Crashes expected based off historical data, with empirical bayes regression to the mean adjustment

(Expected crashes, Expected crash rate, Expected crashes per mile, PSI)

Collision Diagrams

Purpose of Collision Diagrams

- Visualizes existing intersection crash data in a simplified diagram

- Explore crash patterns grouped by and turning movement and travel direction

- Review crash narratives, and update key crash data points (manner of collision, first harmful event, travel direction).

Collision Diagrams Deliverables

- Collision Diagram
  - Diagram
  - Satellite
  - Historical Crash Counts

- Edit/Update Data

- Raw Table

Diagram Logic

Vehicle 1 Northbound

Angle: V1 NB Straight, V2 EB Straight

| Crash Logic	In-App Data Fields
Two or more vehicles, **angle crash**, (the First Harmful Event field will not impact how this type of crash is mapped). Vehicle 1, entering the intersection **northbound**, traveling **straight**. Vehicle 2, entering the intersection **eastbound**, traveling **straight**.	**Crash Details** MANNER OF COLLISION Angle FIRST HARMFUL EVENT Collision With Other Motor Vehicle in Transport CRASH SEVERITY1 No injury/PDO **Vehicle 1** TRAVEL DIRECTION ID Northbound VEHICLE MANEUVER ID Straight Ahead **Vehicle 2** TRAVEL DIRECTION ID Eastbound VEHICLE MANEUVER ID Straight Ahead

Displayed in Diagram
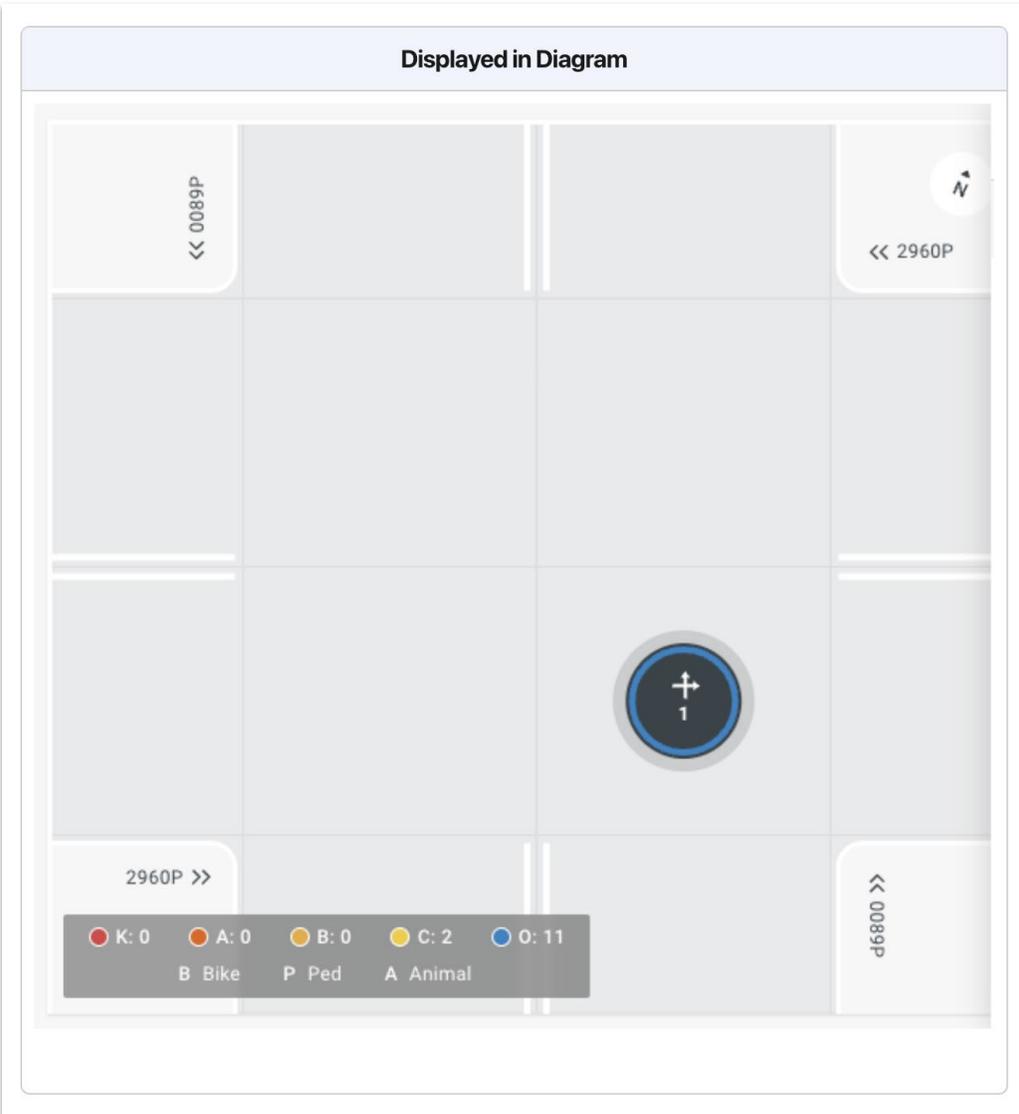
Safety Analysis

Purpose

- Easily conduct a diagnosis of crash patterns within a study area (segments and/or intersections)

- Identify potential countermeasures to improve safety in the study area

- Calculate Benefit Cost for selected and custom treatments, and compare the effectiveness of potential countermeasures

Deliverables

- Raw Table Downloads

- Safety Analysis Reports

- Benefit Cost Calculations
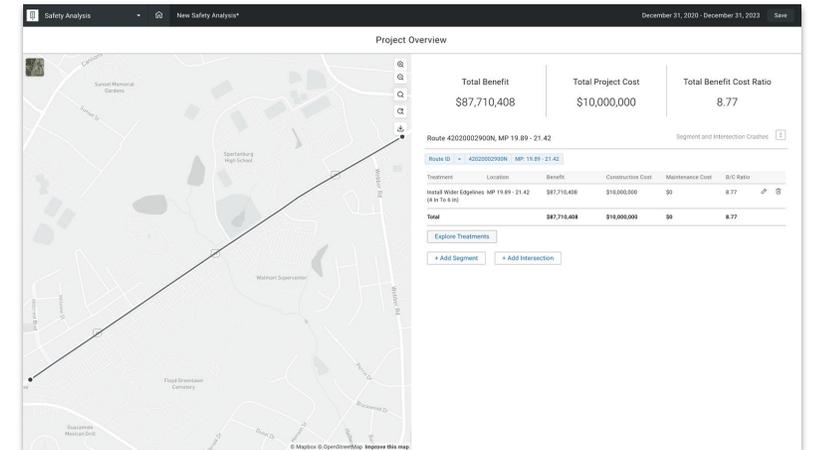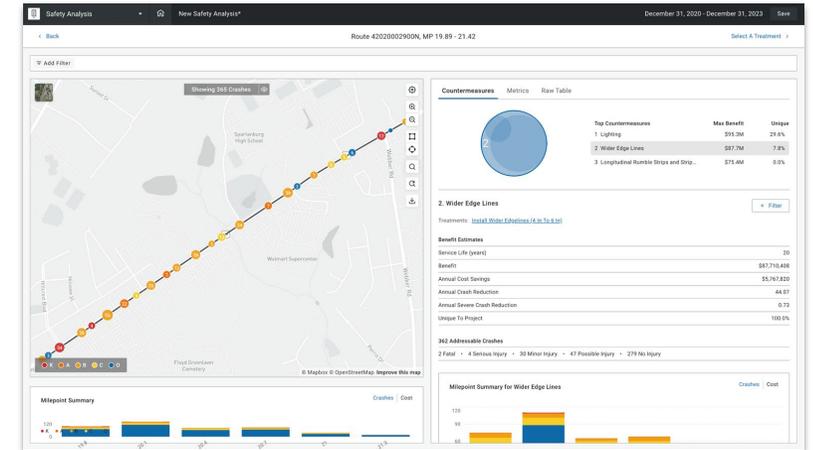
Roadway Safety Management Process

HSM Part B - Roadway Safety Management Process

1. Network Screening
2. Diagnosis
3. Countermeasure Selection
4. Economic Appraisal
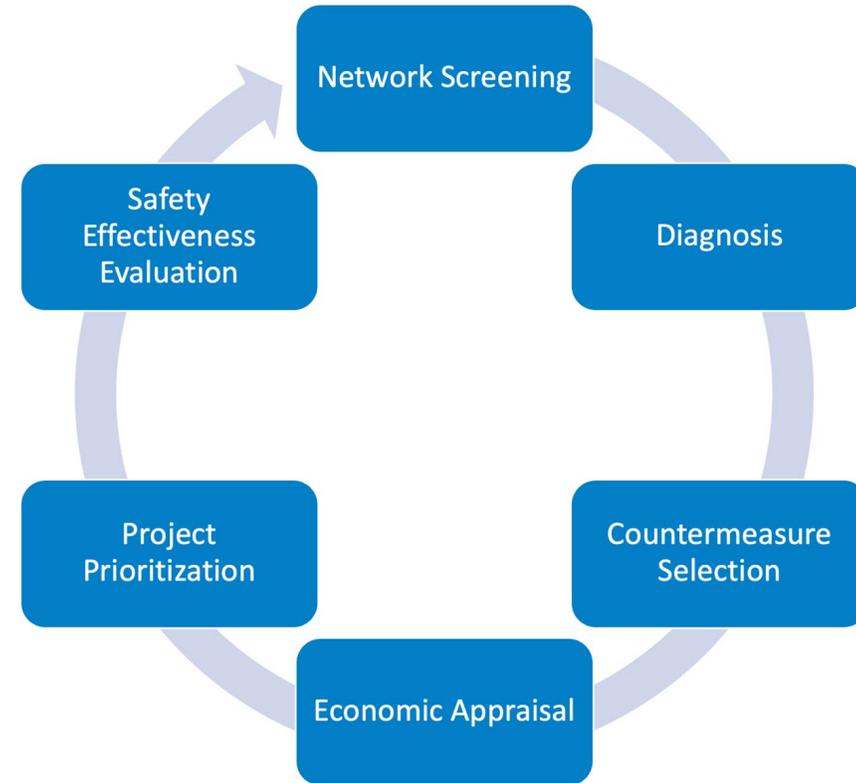5. Project Prioritization
6. Safety Effectiveness Evaluation

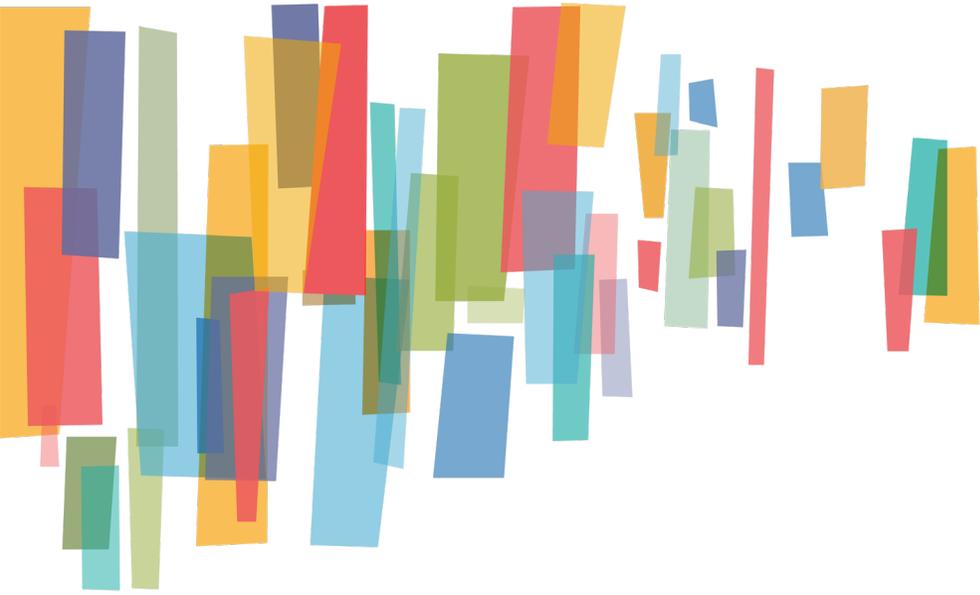Figure 1. HSM 6-step Roadway Safety Management Process

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numetric™

Support@numetric.com

Q&A Session

Plan: Three Studies

- **Regional Trail + Bicycle Facility Network Plan**
Covers the full 19-county MPO

- **South Metro Trail + Bicycle Facility Plan**
Deeper study of sub-regional, 6-county area of
Regional Trail Plan; identifies specific alignment
options

- **Flint River Trail Plan**
Master plan for trail for quarter-mile-wide corridor
centered on Flint River from headwaters in East
Point to the southern edge of MPO

- **Budget:** $3,500,000 total for all three plans

- **Timeline:** Kickoff in March, work will take 18-24
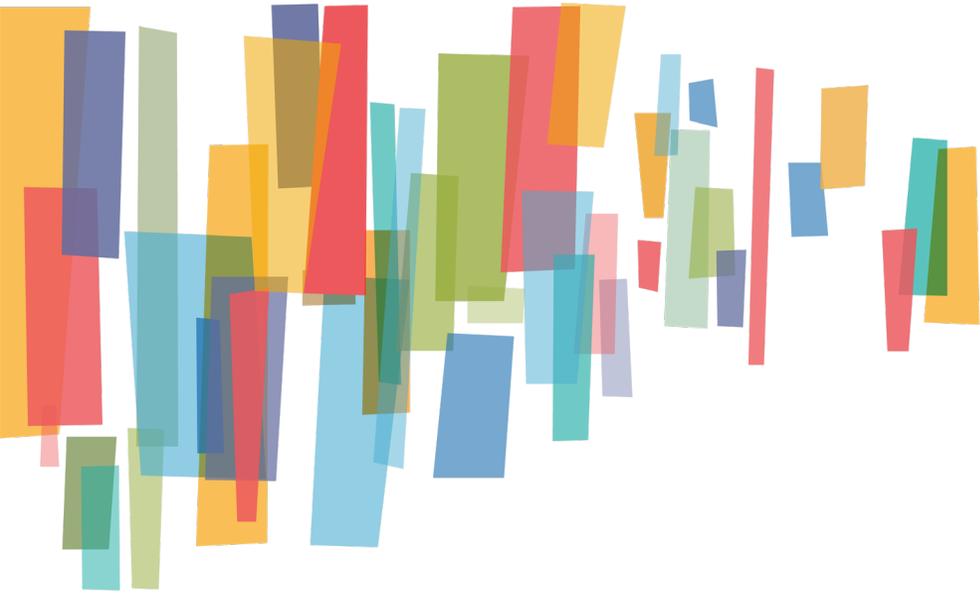months
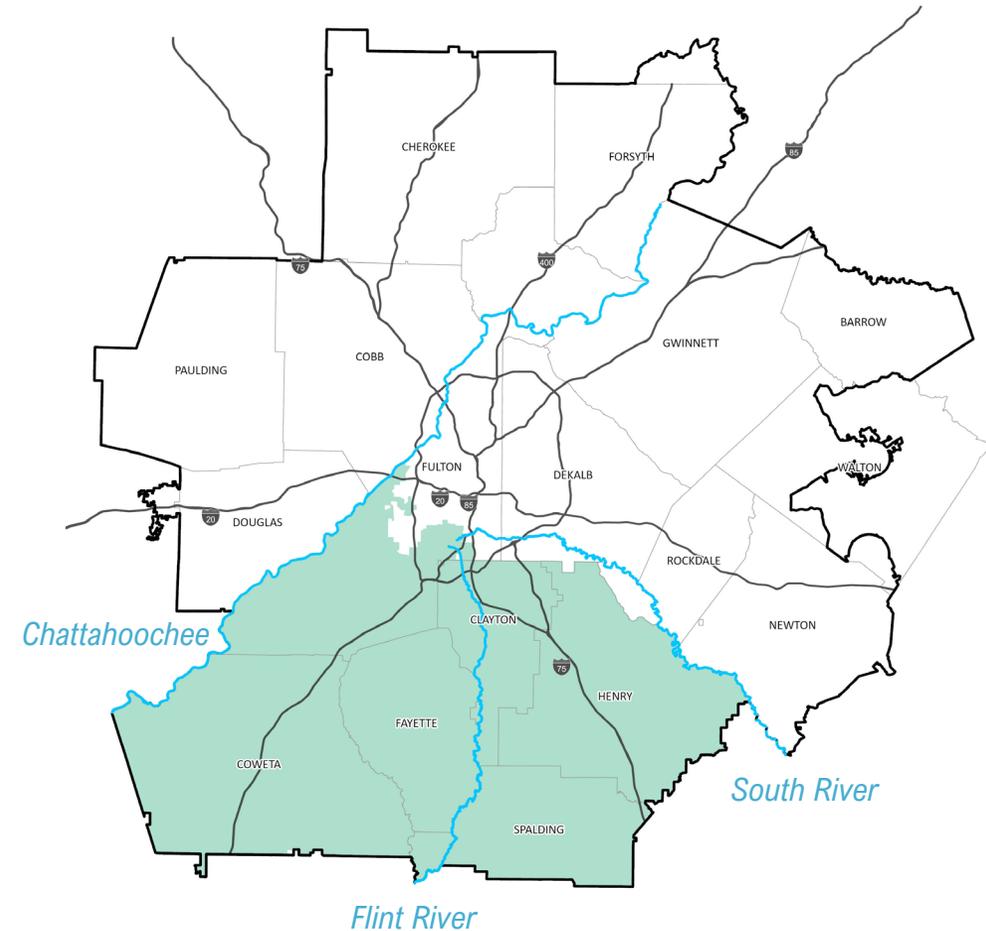
South Metro Planning Area

Safety Risk Factors

The risk factors help measure the risk of severe

- Roadway Departure crashes
- Intersection crashes
- Pedestrian crashes
- and Bicycle crashes

on every road segment in the region.

SAFETY RISK FACTORS

INTERSECTION   BICYCLIST   PEDESTRIAN

Atlanta Region Risk Factors

2026 Roundtable Schedule

2026 RAT Roundtable Schedule

1. January 29, 2026 @ 3:30PM: Micromobility Symposium (In Person)
   - Georgia Tech's Center for Urban Research
2. February 5, 2026 @ 1:00 PM: AASHTOWare and ~~ARC Risk Factors Web Tool~~ (*Virtual*)
   - Numetric
3. **February 19, 2026 @ 2:00 PM: Replica and ARC Datasets (*Virtual*)**
   - **GDOT and ARC**
4. **April 21, 2026 @ 1:00 PM: City of Atlanta Vision Zero -Implementation (In-Person)**
   - **City of Atlanta @ Harry West Conference Rooms (ARC)**

Collaboration with Georgia Tech, ARC Regional Task Force, and 2026 MTP Development.

We are trying to ensure all are AICP credit eligible!

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