



ONE **great** REGION

2024 Atlanta Regional Freight Mobility Plan

Transportation Coordinating Committee Meeting, November 3, 2023

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Project Overview (Recap)



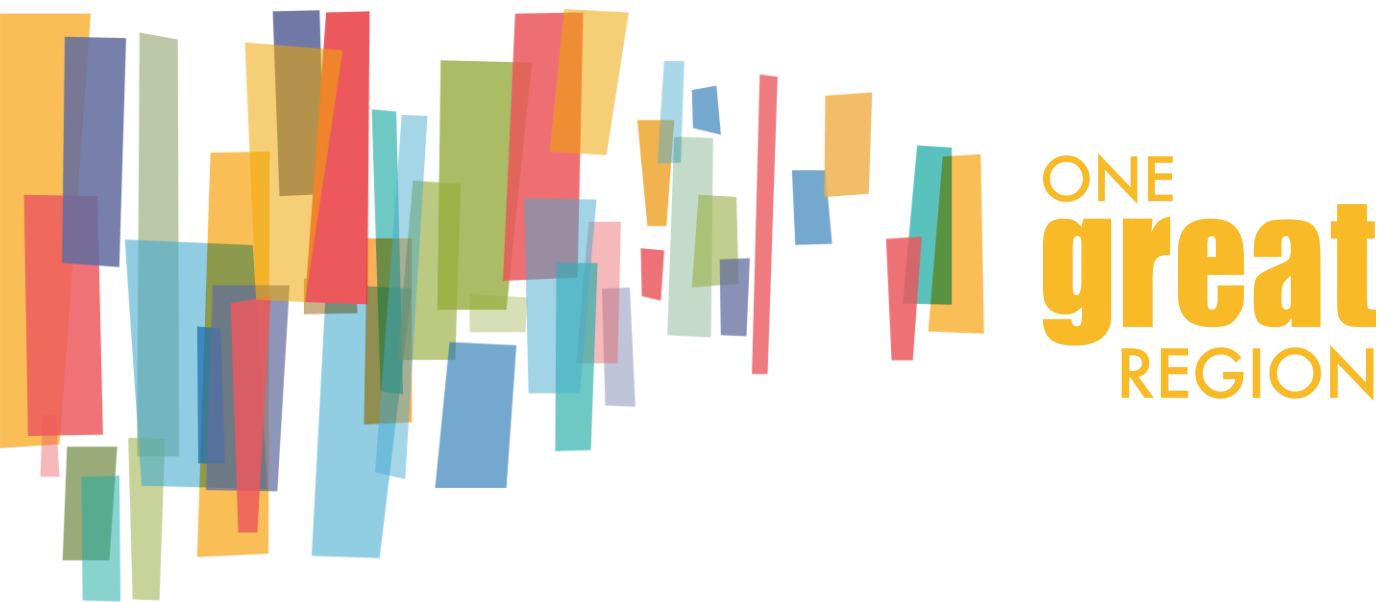
- ▮ Strategic plan to identify intermodal freight needs in the 20-county region
 - Leverage regional freight planning over the last 20 years
 - Align with state freight and logistics efforts
- ▮ Maximize freight funding opportunities associated with Infrastructure Investments and Jobs Act (IIJA)
- ▮ Develop tailored, localized tools and products to support plan implementation

Key Freight Considerations

- Increasing congestion on Georgia's intermodal freight network
- Community impacts of industrial and freight-oriented development
- Growth in e-commerce and associated freight impacts
- Urban goods delivery and complex curbside management needs
- Deployment of new technologies with associated infrastructure needs
- Ability to connect a trained workforce to freight employment opportunities
- System risk and resiliency

Project Task Structure

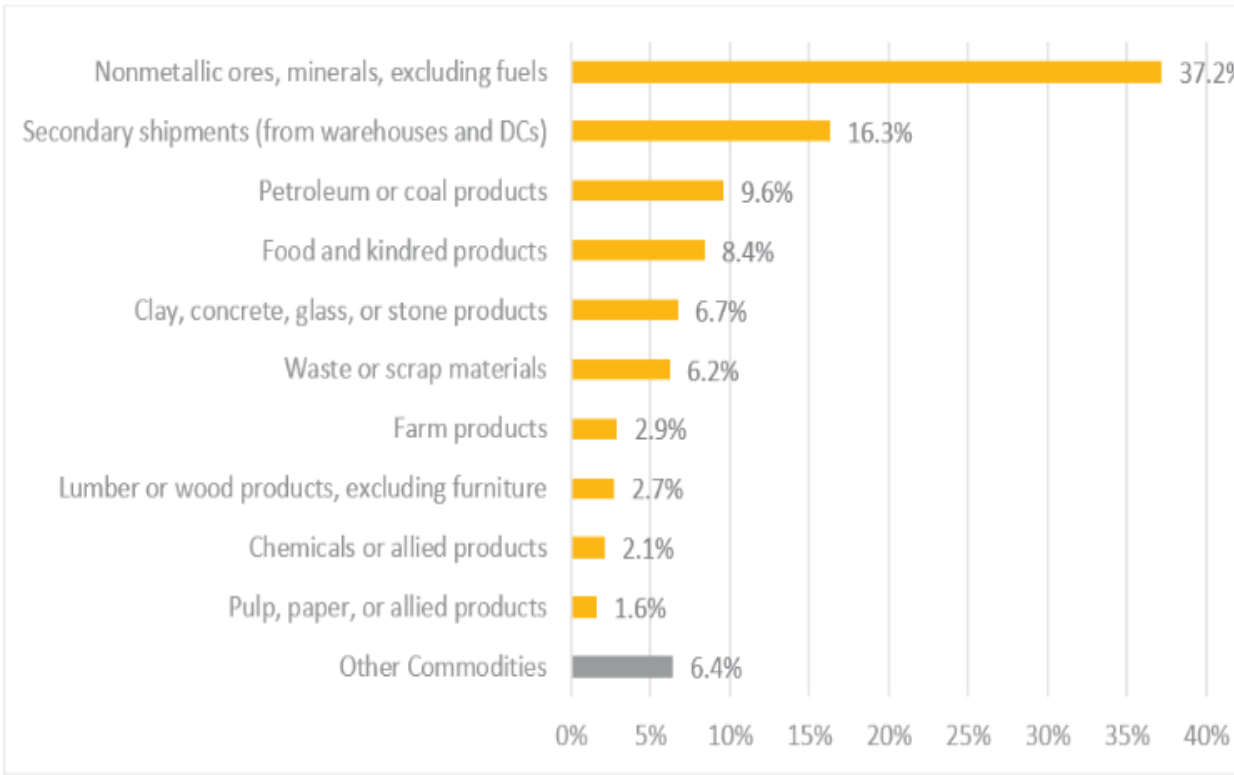




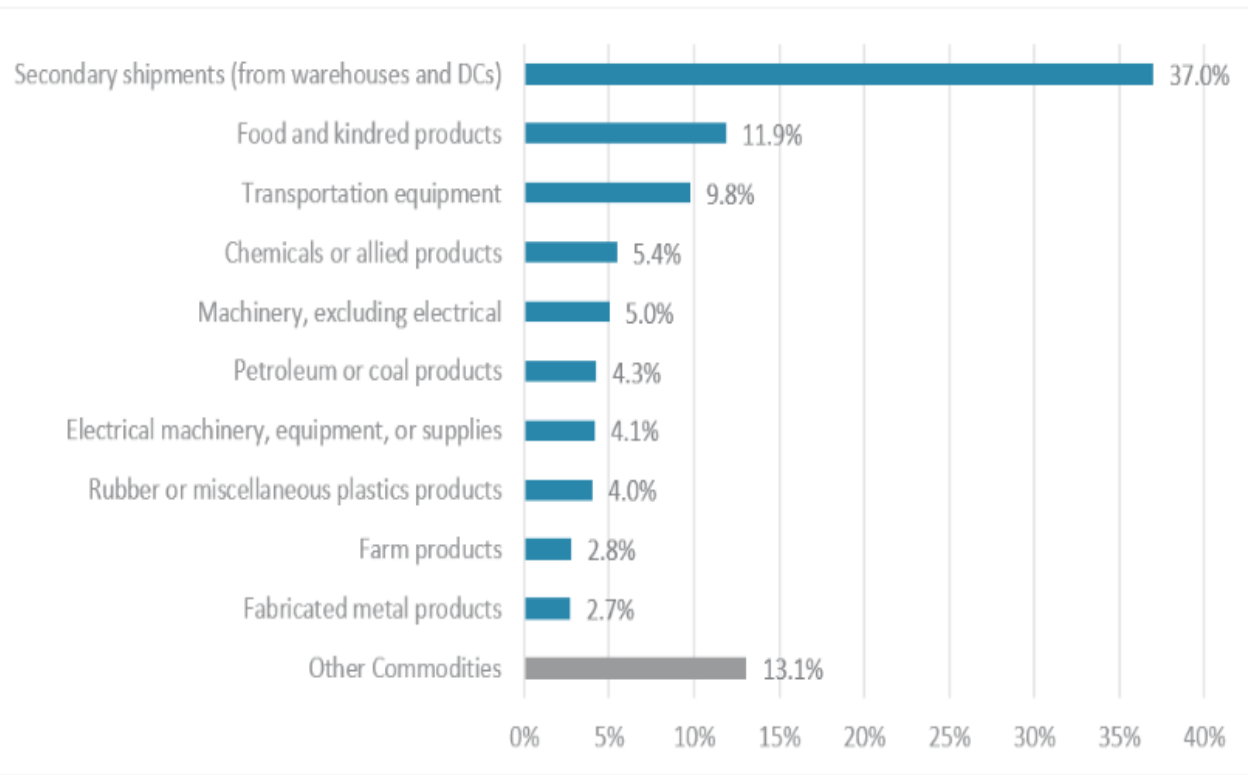
Commodity Flow Data

Top Commodities for Truck

By Tonnage



By Value (\$)

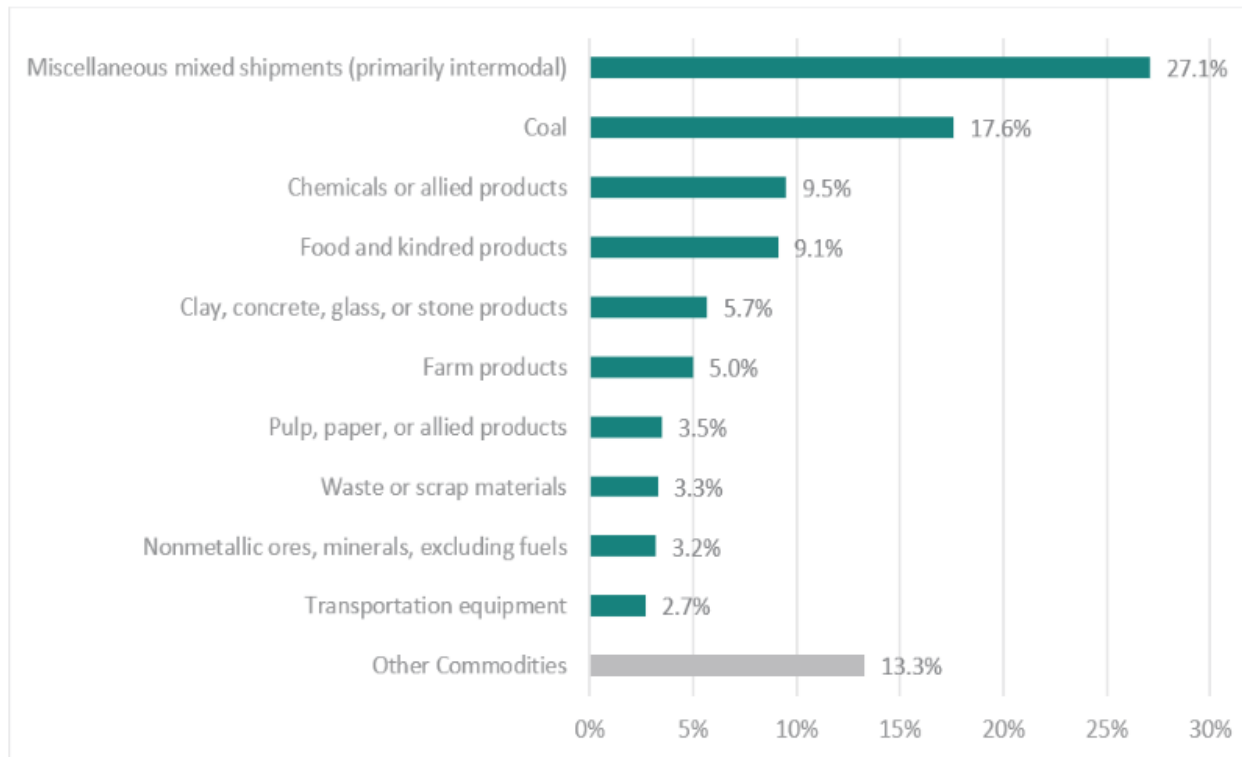


Source: S&P Global Transearch Data, 2019

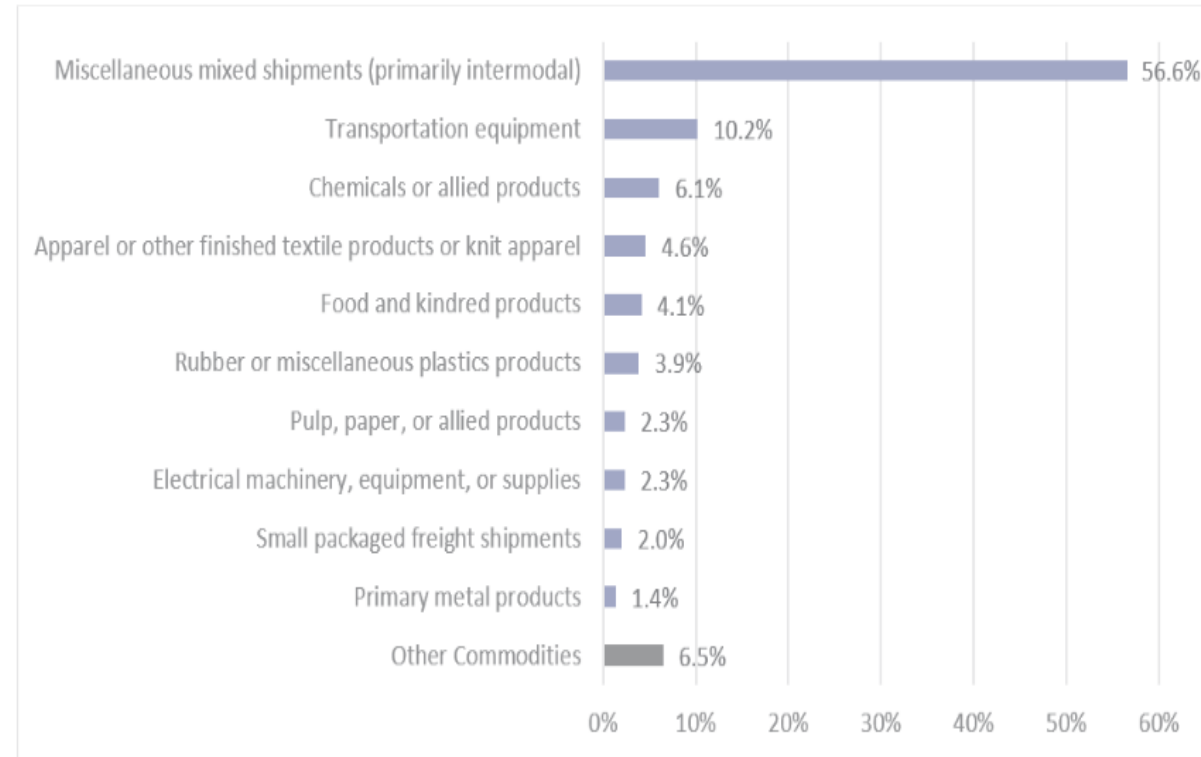
Note: Waste or scrap materials refers to those scrap materials not identified by the production industry. "DC" refers to distribution centers.

Top Commodities for Rail

By Tonnage



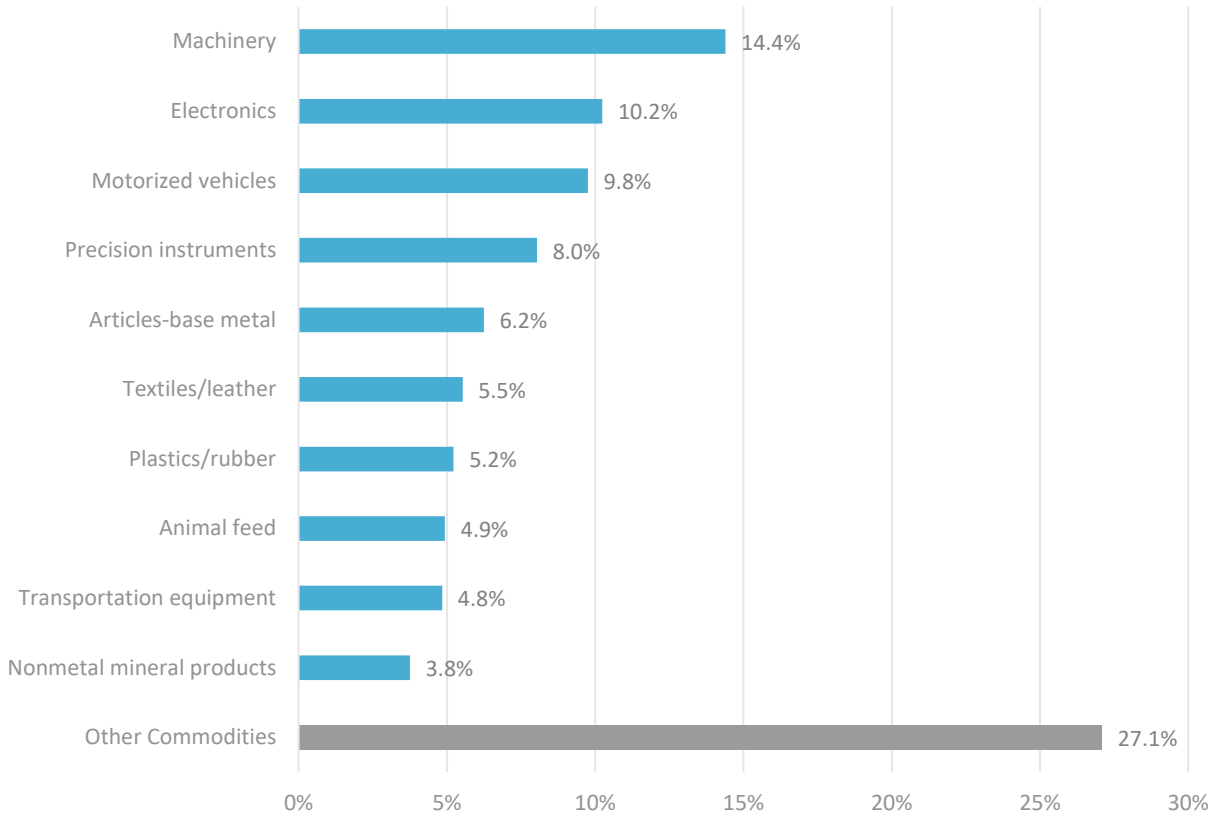
By Value (\$)



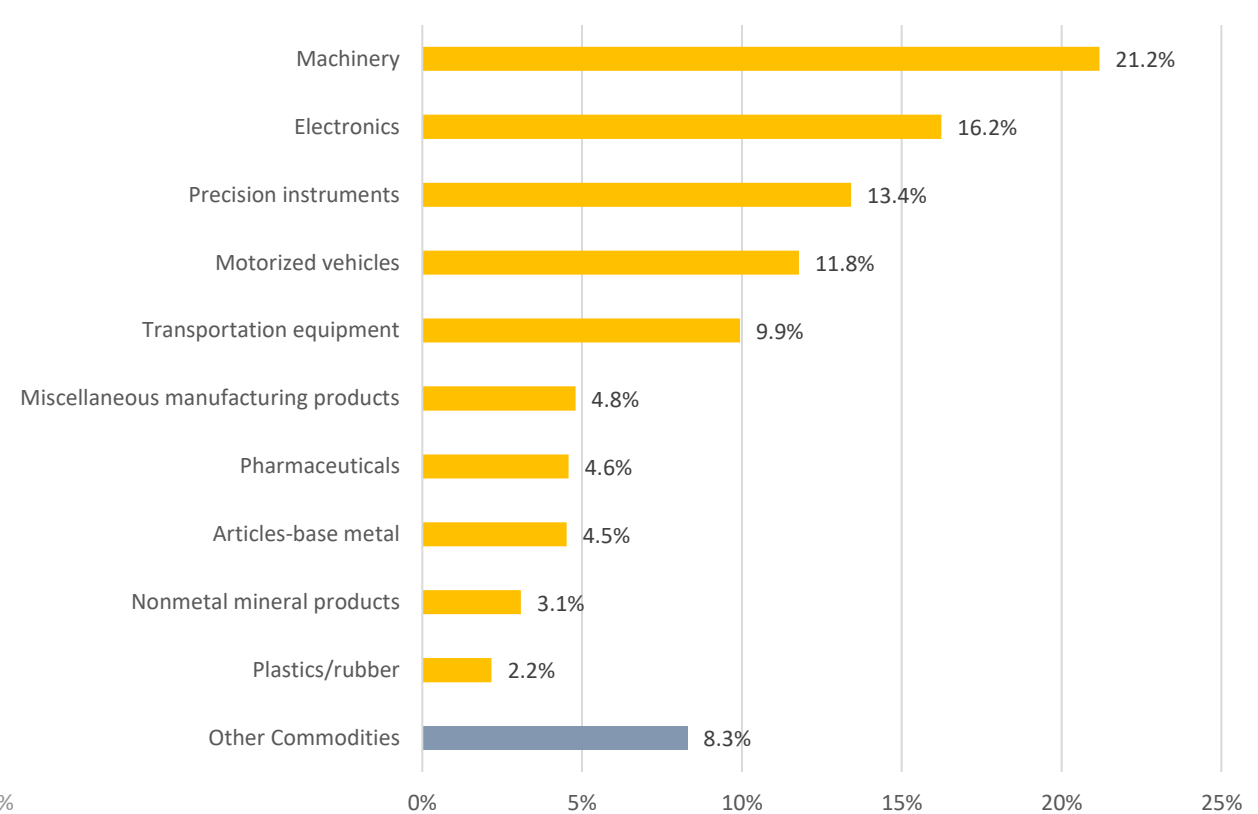
Source: S&P Global Transearch Data, 2019, Surface Transportation Board Carload Waybill Data

Top Commodities for Air Cargo

By Tonnage

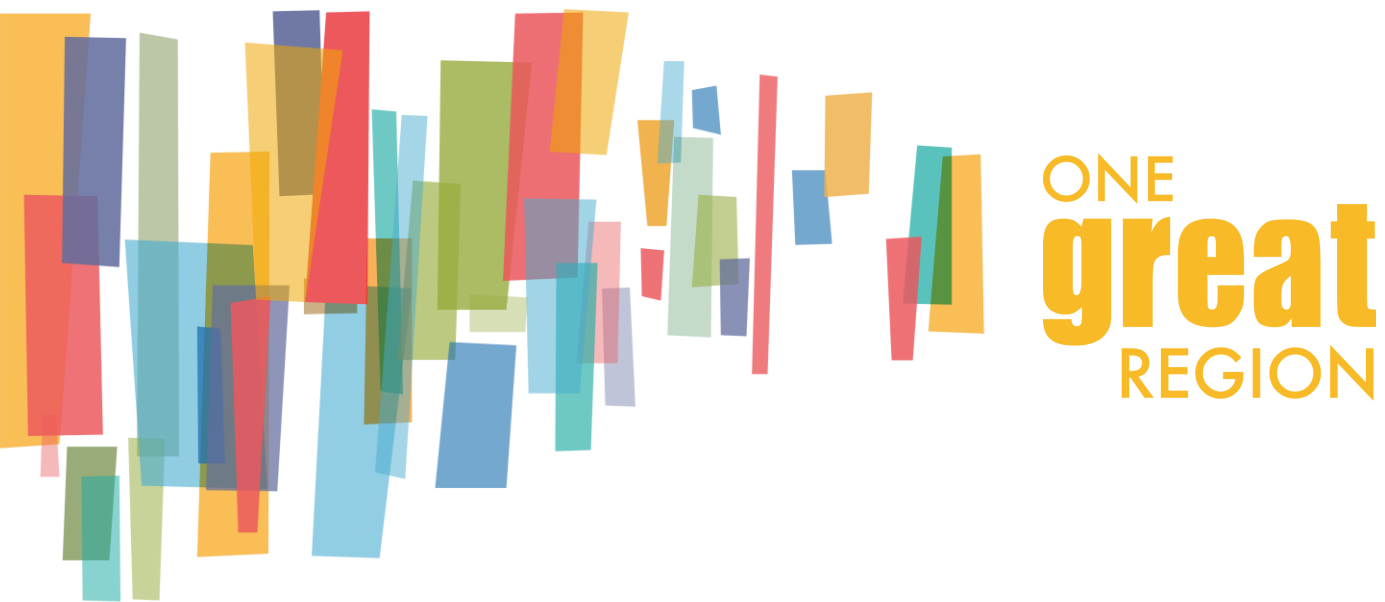


By Value (\$)



Source: FHWA FAF5.5.1, 2019

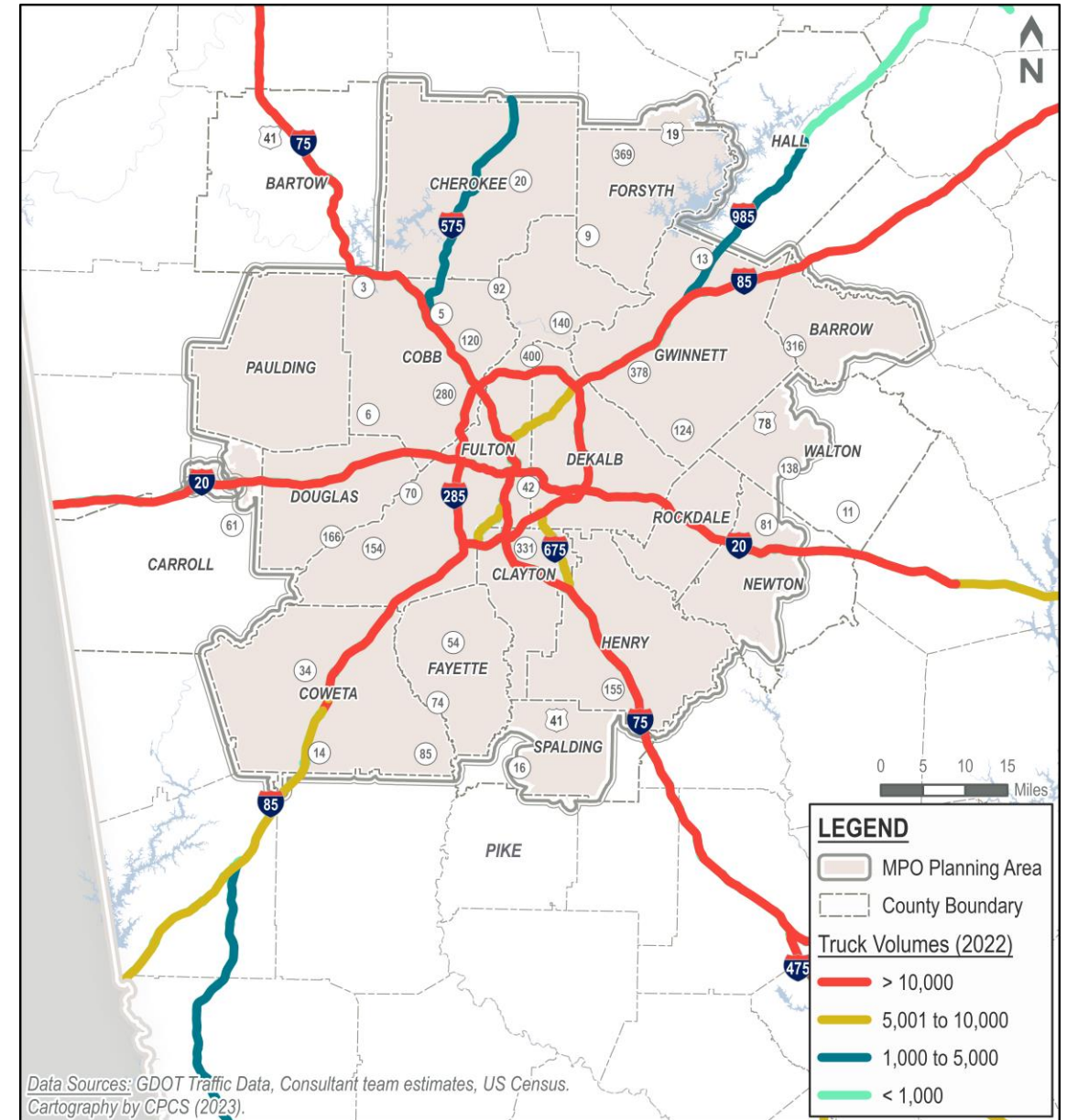
The air commodity flow data is based on FHWA's FAF5.5.1 database (released July 28, 2023), for the Atlanta-Athens-Clarke County-Sandy Springs, GA CFS Area, which is larger than the 20-county Metro Atlanta region used in the Transearch queries for the other modes. The FAF database uses SCTG commodity types. The Transearch data does not have international air cargo flow data and uses STCC commodity types.



Truck Volumes and Bottlenecks

Daily Truck Volumes

- The interstate system is the workhorse for moving goods by truck
- Segment-level truck volume estimates developed using 2022 point data and historical segment counts
- Top truck segments along the region's interstate highway system are
 - I-75 northwest of I-285
 - I-285 on the westside (between I-75 and I-85 on the west side of the region)
 - I-85 in the northern part of the Atlanta Region just outside of I-285 connecting the region to East Coast states



Source: GDOT Traffic Analysis & Data Application (TADA), 2022 supplemented by historical data

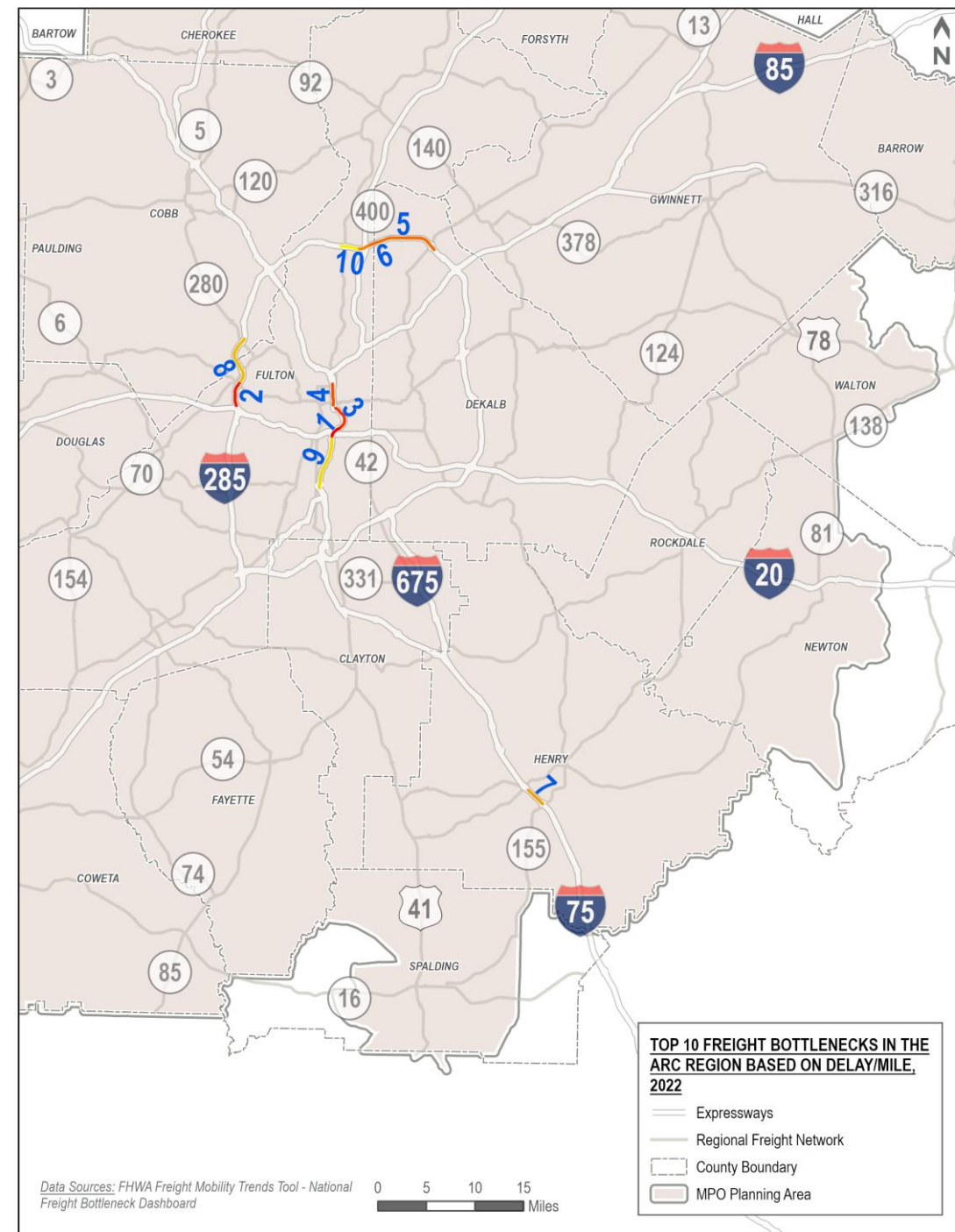
2022 Truck Bottlenecks

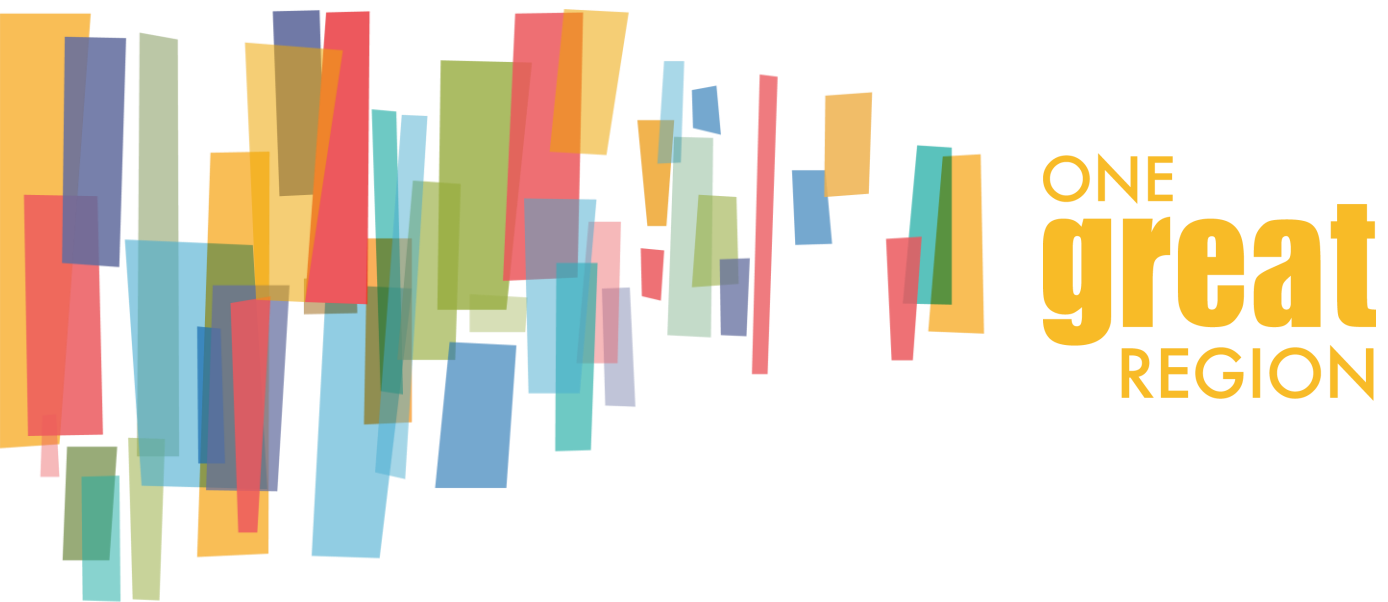
Rank	Road	Direction	Length (Mile)	Delay Per Mile (Hours)	Truck AADT *
1	I-85/I-75	NORTHBOUND	0.68	77,171	7,355
2	I-285	SOUTHBOUND	1.62	58,084	11,855
3	I-85/I-75	NORTHBOUND	1.73	56,567	7,355
4	I-85/I-75	SOUTHBOUND	1.33	55,831	7,355
5	I-285	WESTBOUND	4.39	48,377	9,544
6	I-285	WESTBOUND	0.9	46,630	10,297
7	I-75	NORTHBOUND	1.24	45,938	8,402
8	I-285	SOUTHBOUND	3.02	44,833	11,855
9	I-85/I-75	NORTHBOUND	3.41	41,504	7,355
10	I-285	WESTBOUND	1.3	36,737	10,297

* Truck AADTs are bidirectional

Bottlenecks based on Annual Truck Hours of Delay per Mile on highway segments.

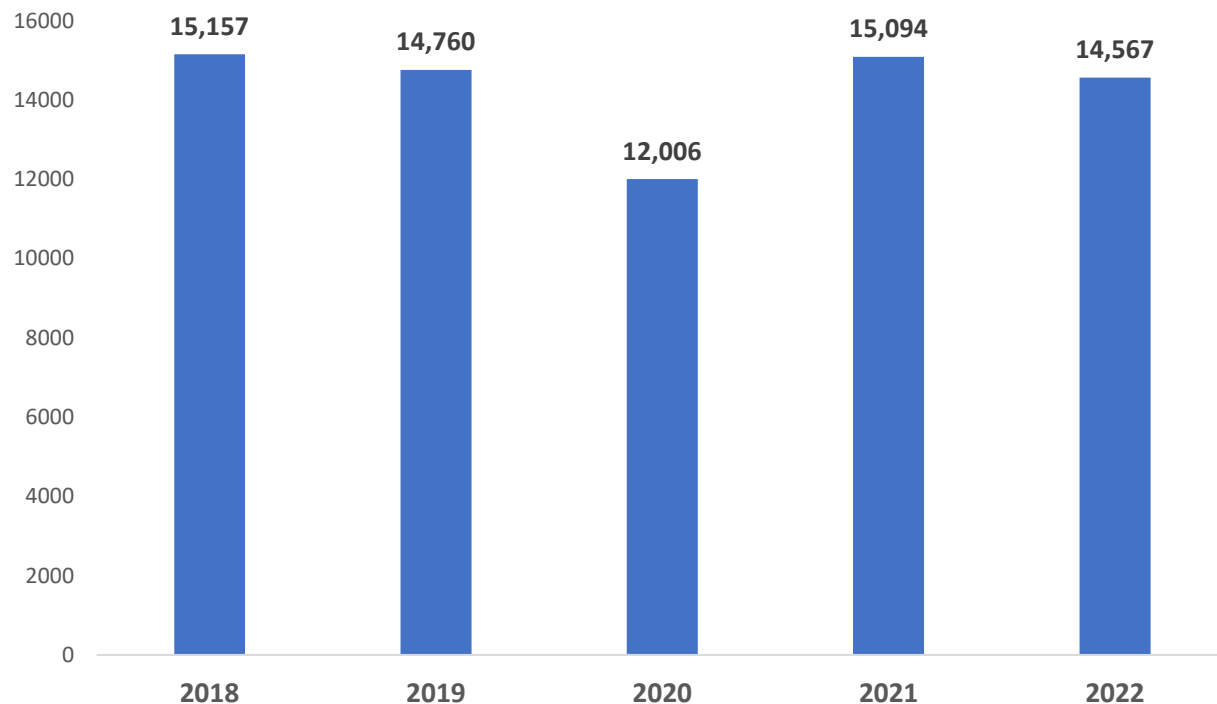
Source :FHWA Freight Mobility Trends Tool – National Freight Bottleneck Dashboard





Freight Crash Analysis

2018-2022 Truck Involved Crashes



71,584 Truck Crashes in 5 Years

323 Fatalities

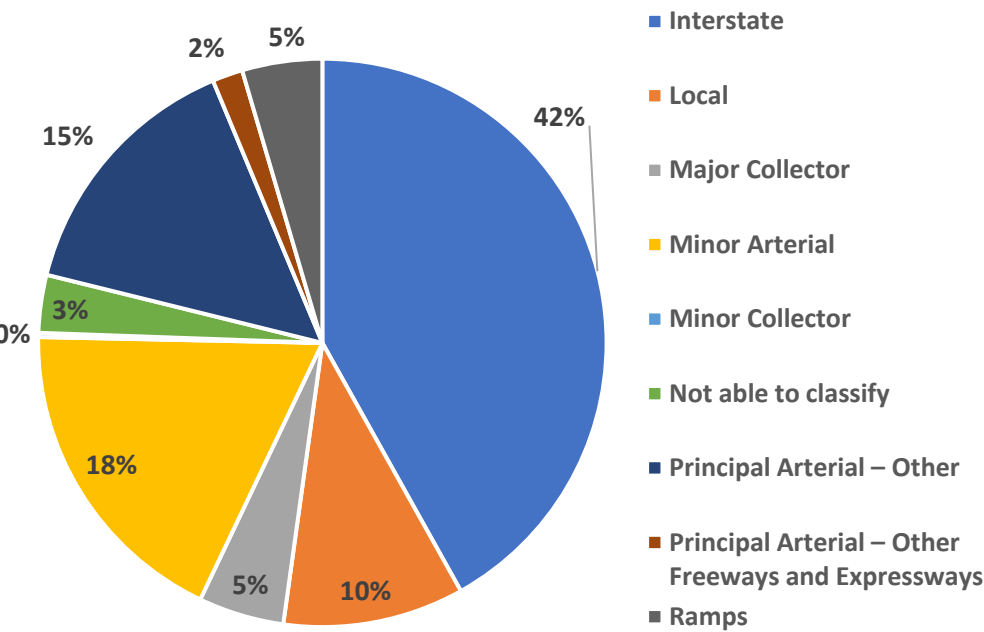
1,150 Serious Injuries

Top Contributing Factors For Truck Crashes

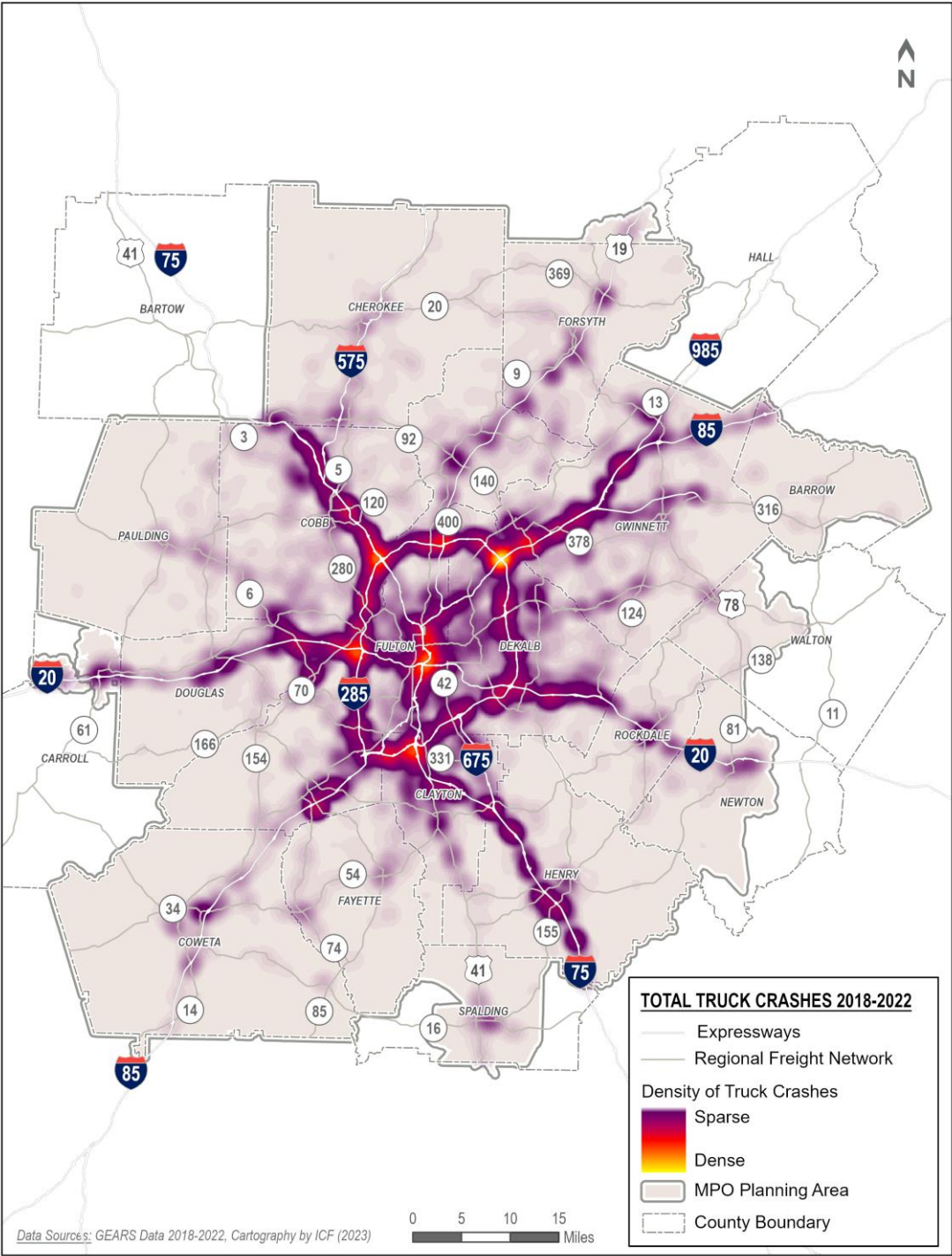
- Roadway Factors
 - Congestion
 - Roadway Surface Conditions
 - Construction
 - Secondary Crash
 - Standing Water
- Driver Factors
 - Improper Lane Change
 - Following Too Close
 - Failure to Yield
 - Misjudged Clearance
 - Improper Backing

Source: Georgia Electronic Accident Reporting System (GEARS) accessed using Numetric Crash Query System

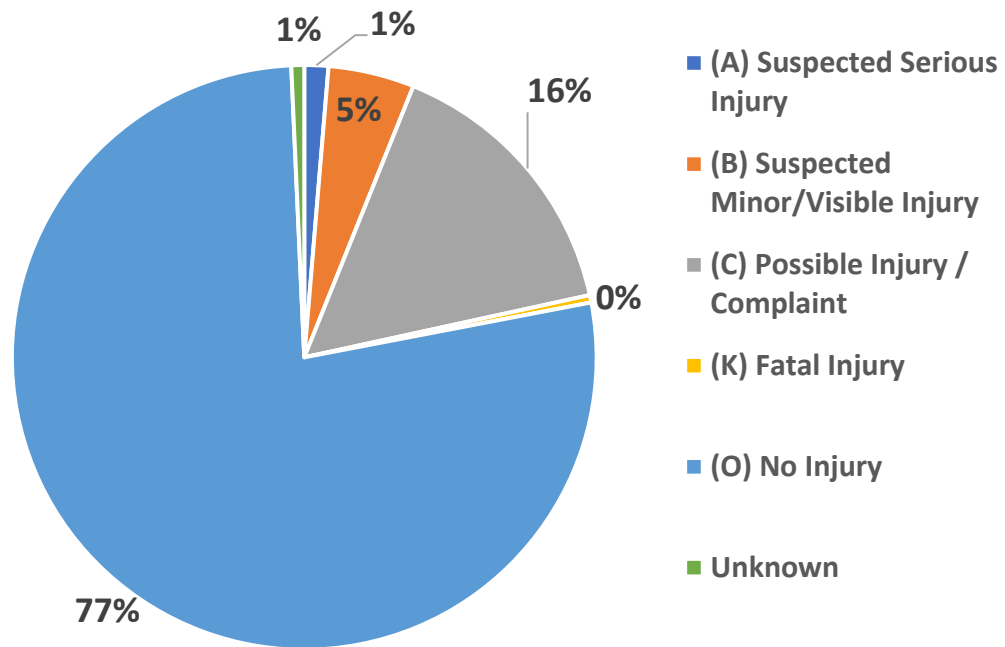
2018-2022 Truck Crashes by Functional Classification of Road



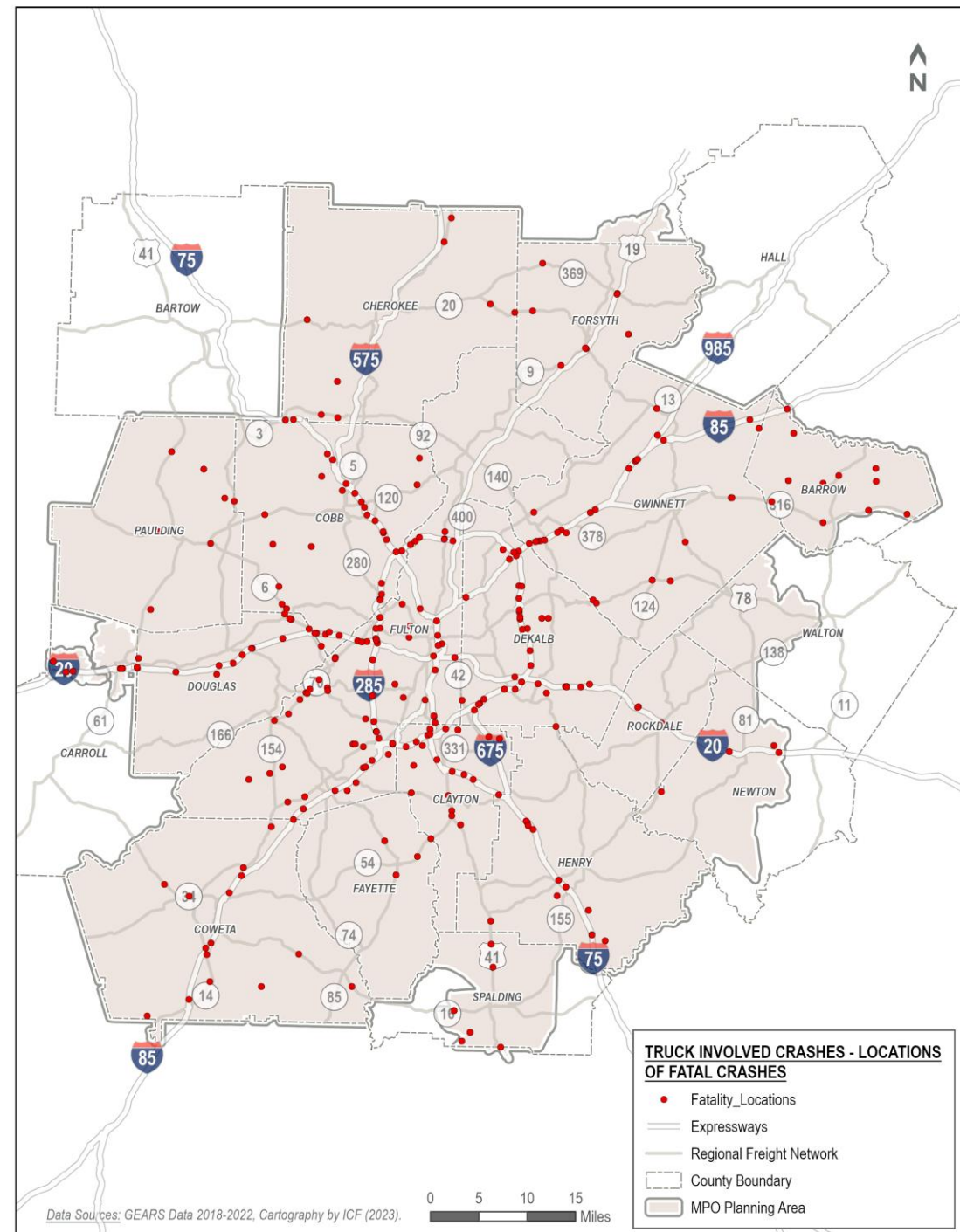
Source: Georgia Electronic Accident Reporting System (GEARS) accessed using Numetric Crash Query System



2018-2022 Type of Injuries – Truck Involved Crashes



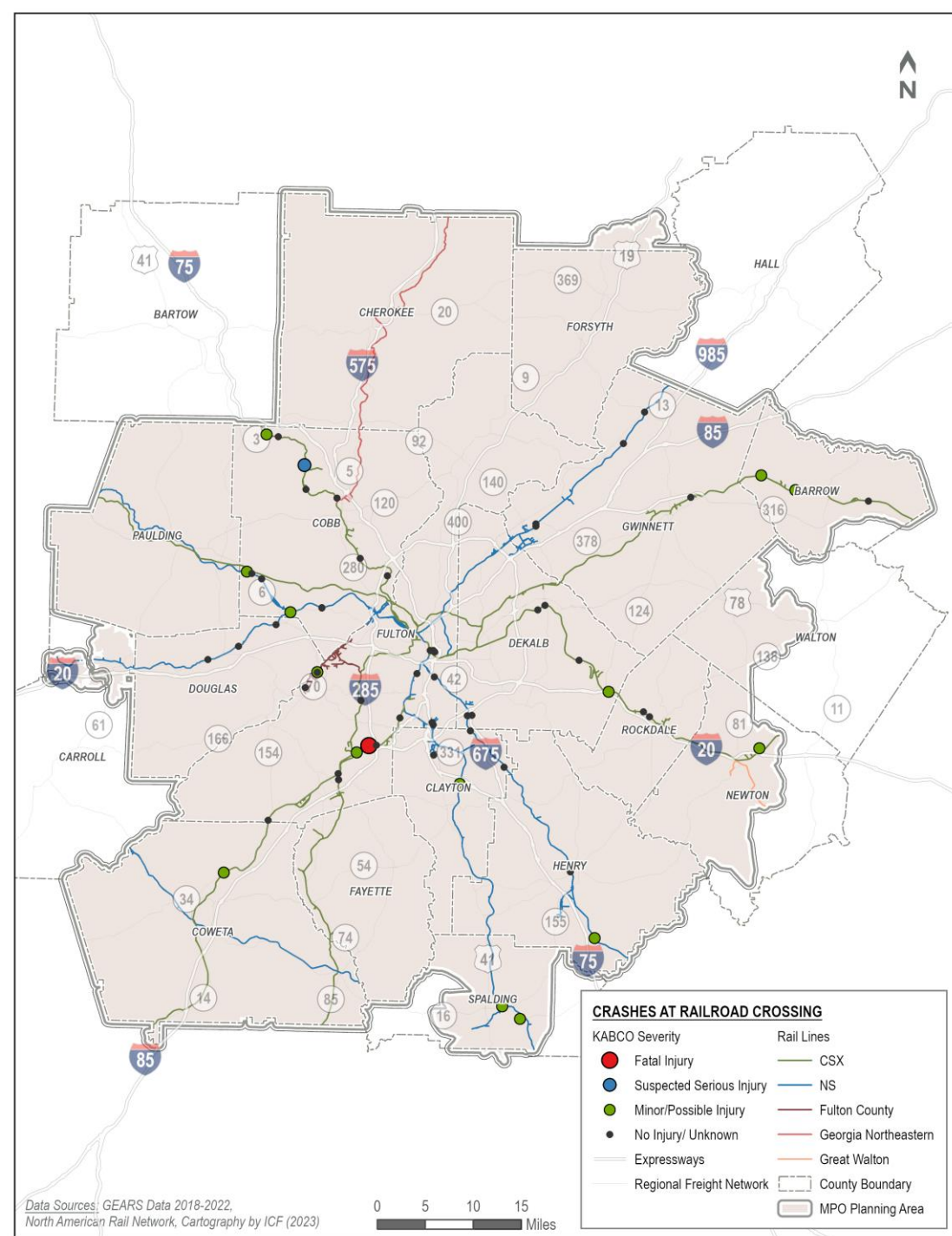
Source :Georgia Electronic Accident Reporting System (GEARS) accessed using Numetric Crash Query System

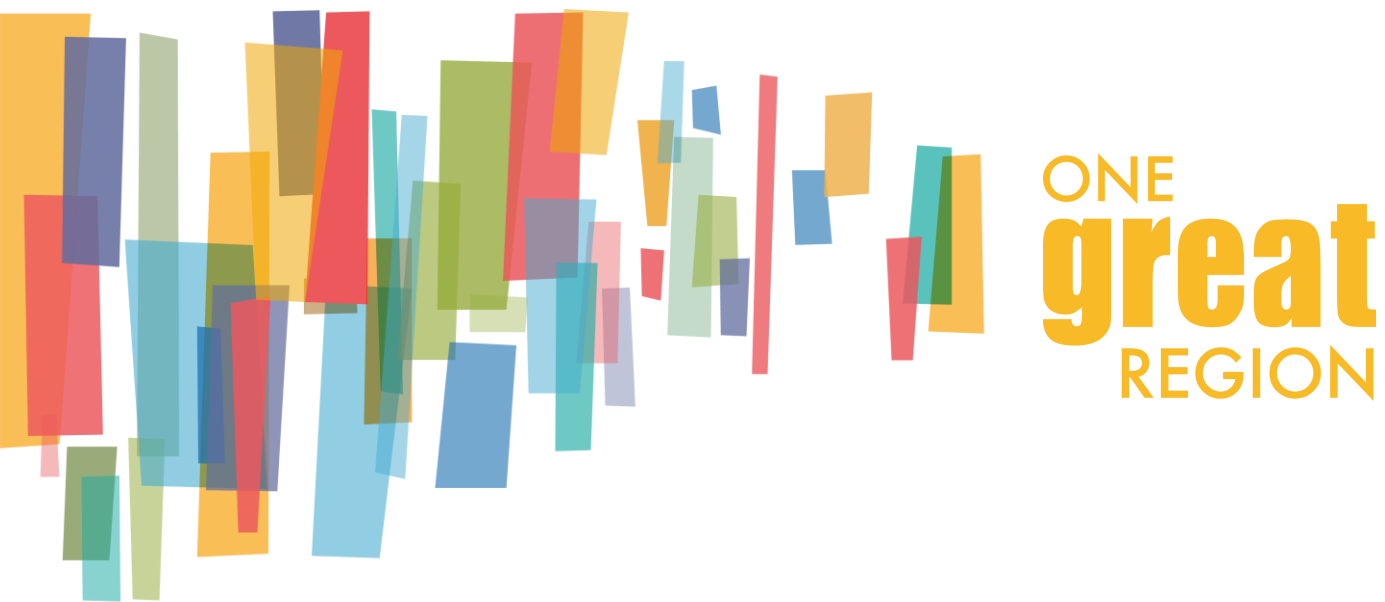


2018-2022 At-Grade Railroad Crossing Crashes

- 79 Crashes at Railroad Crossings
- 28 Truck Crashes
- Locations of Crashes
 - Fatal Crash
 - Roosevelt Hwy and Buffington Road, South Fulton in 2018
 - Serious Injury
 - E 6th Street and Maple St, Cobb County, 2021

Source :Georgia Electronic Accident Reporting System (GEARS) accessed using Numetric Crash Query System





Stakeholder Engagement Update

Industry Interview Takeaways

Stakeholder Engagement Overview: Stakeholders

Engagement Activity	Audience	Completed
Local Jurisdiction Sessions	County and municipal staff	19 / 19
Regional Roundtables	Air cargo stakeholders Land use stakeholders	2 / 2
Interviews	Public and Private sector freight industry leadership	18 / 19
Online Surveys	All stakeholder groups	1 / 2
Community Engagement Platform	All stakeholder groups	1 / 1
Advisory Committees	Freight policy and advisory leadership Industry support agencies and organizations	0 / 3

Completed Industry Interviews



Industry Partners



Railroad Partners

E-Nest LLC

Minority-Owned Small Business



Freight Focused Corporations



Stakeholder Needs & Challenges

Industry Trends

- Challenges in automation integration
- Rising costs
- E-commerce growth
- Time-sensitive operations

Truck Parking

- Widespread lack of truck parking
- Inbound carrier parking considerations overlooked
- System inefficiencies further parking problems
- Mixed response on responsibility for creating solutions

Workforce

- Hiring and retention
- Access to the workplace (transit and roadway congestion)
- Regulatory impact

Policy

- Curbside management
- Zoning challenges
- Traffic management and regulation
- Truck parking
- Community collaboration

Infrastructure

- Congestion
- Roadway conditions
- Turning radii
- Vertical clearance of bridges

Survey & Community Engagement Platform

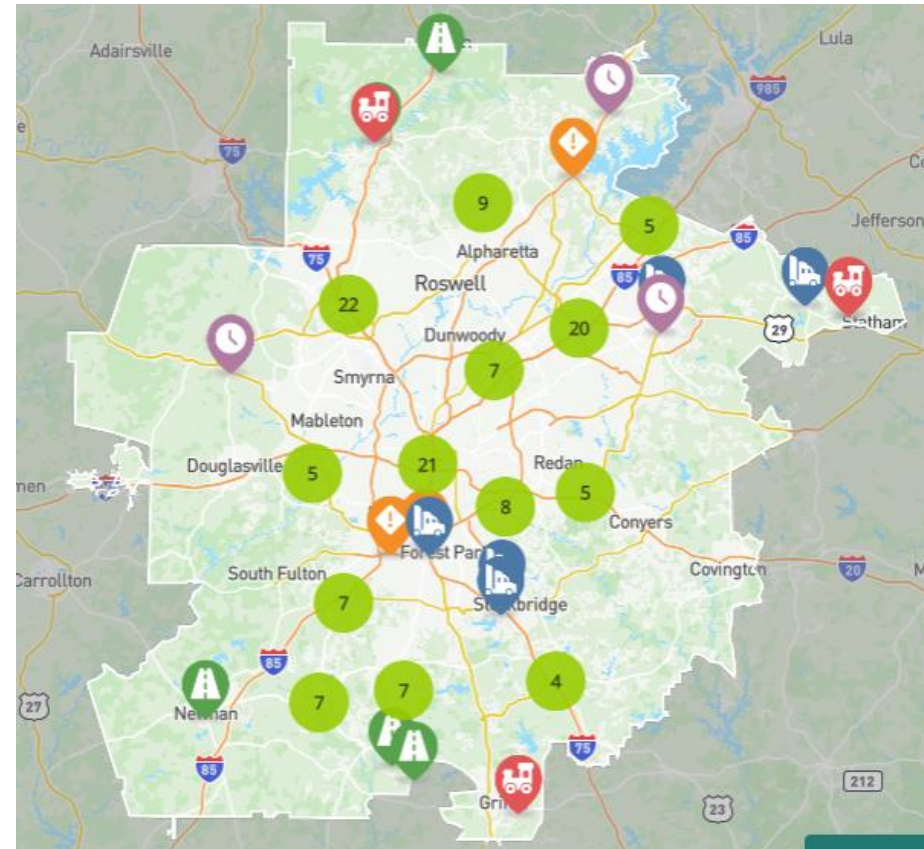
Survey:

- 283 responses by truck drivers, industry workforce, industry leaders, government representatives, small businesses & the general public

Engagement Platform (Mapping)

- 147 unique issues or opportunities identified across the region

*Survey closed October 28:
Analysis coming soon!*



Engagement Platform feedback from across the region

Engagement Feedback

- What stands out as significant or surprising with in the feedback collected?
- Can you share some examples of similar needs and challenges that you are familiar with in the Atlanta region?
- Are there any opportunities or challenges that we are not exploring with the stakeholders across the region?
- Any other questions?



Questions?

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A decorative graphic consisting of several overlapping, semi-transparent rectangles in various colors including blue, orange, red, green, and teal, arranged in a vertical, slightly staggered fashion.

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