

Planning for Better Mobility

ITS GEORGIA CHAPTER MEETING
MAY 30, 2018

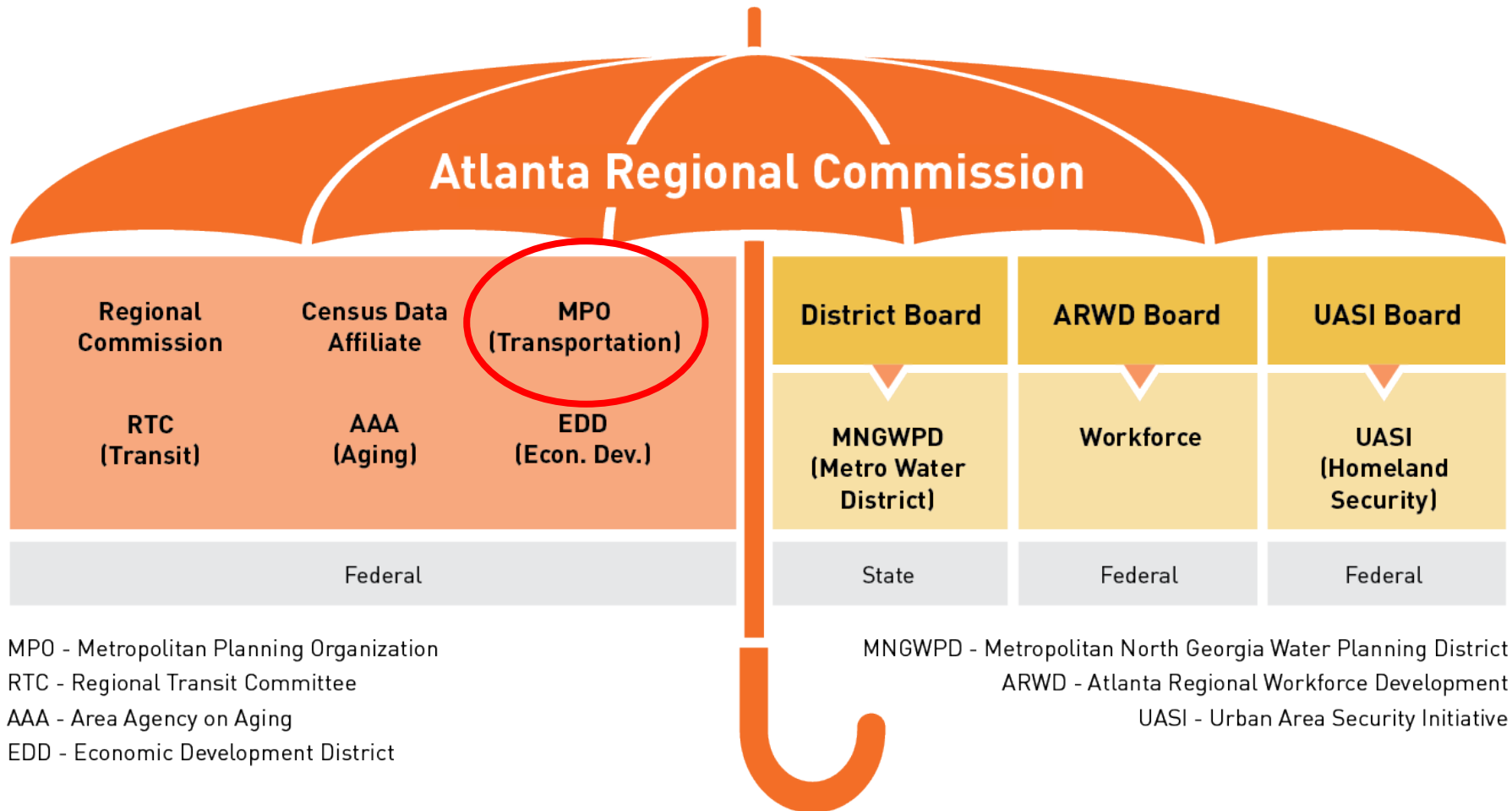


ARC OVERVIEW

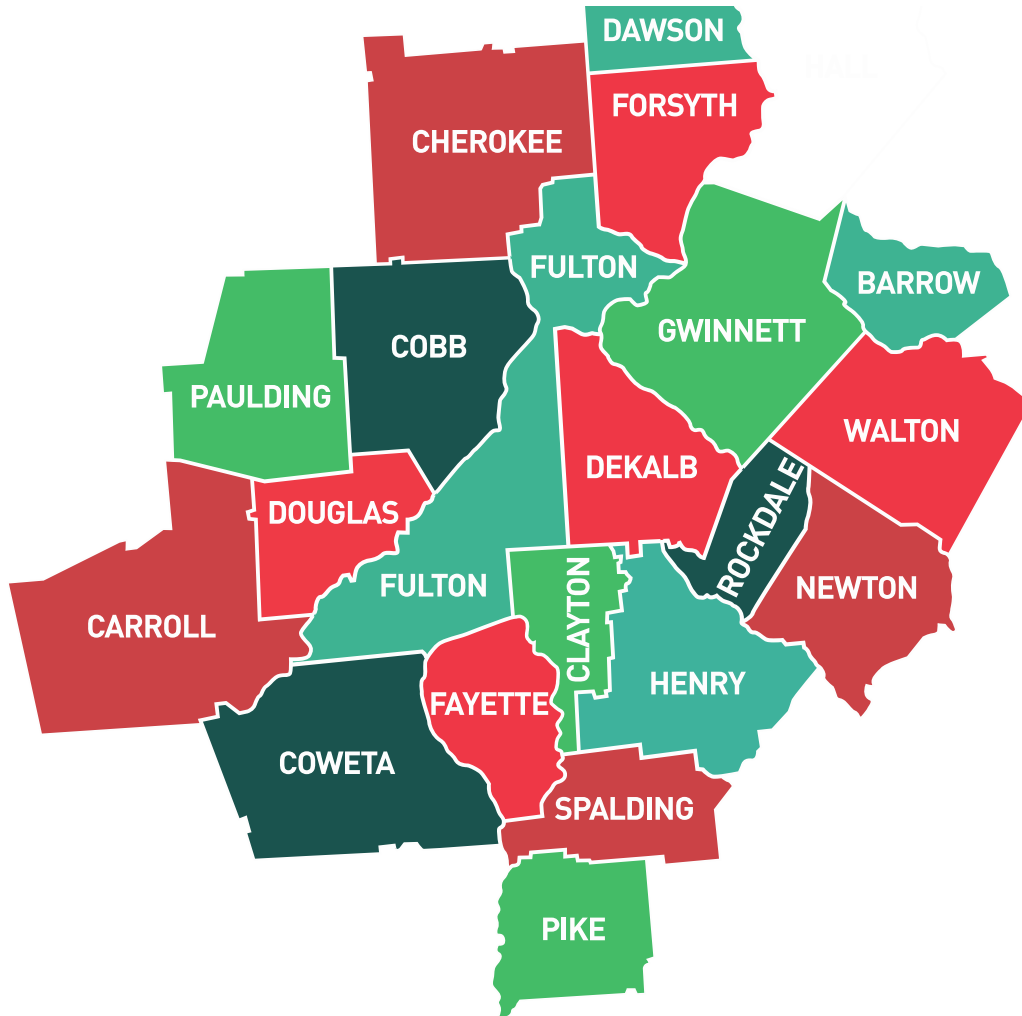
Kofi Wakhisi



ARC Legal Designations



ARC IS THE METROPOLITAN PLANNING ORGANIZATION (MPO)



The ARC 20 county region
represents **50% of
Georgia's population**

METROPOLITAN PLANNING ORGANIZATION (MPO)

- MPOs are designated in urban areas with 50,000+ people, to carry out the **federally required** metropolitan transportation planning process, including the [Regional Transportation Plan](#) and the [Transportation Improvement Program](#)
- There are 16 MPOs throughout Georgia
- Georgia Association of MPOs - www.gampo.org

REGIONAL TRANSIT PLANNING INITIATIVES

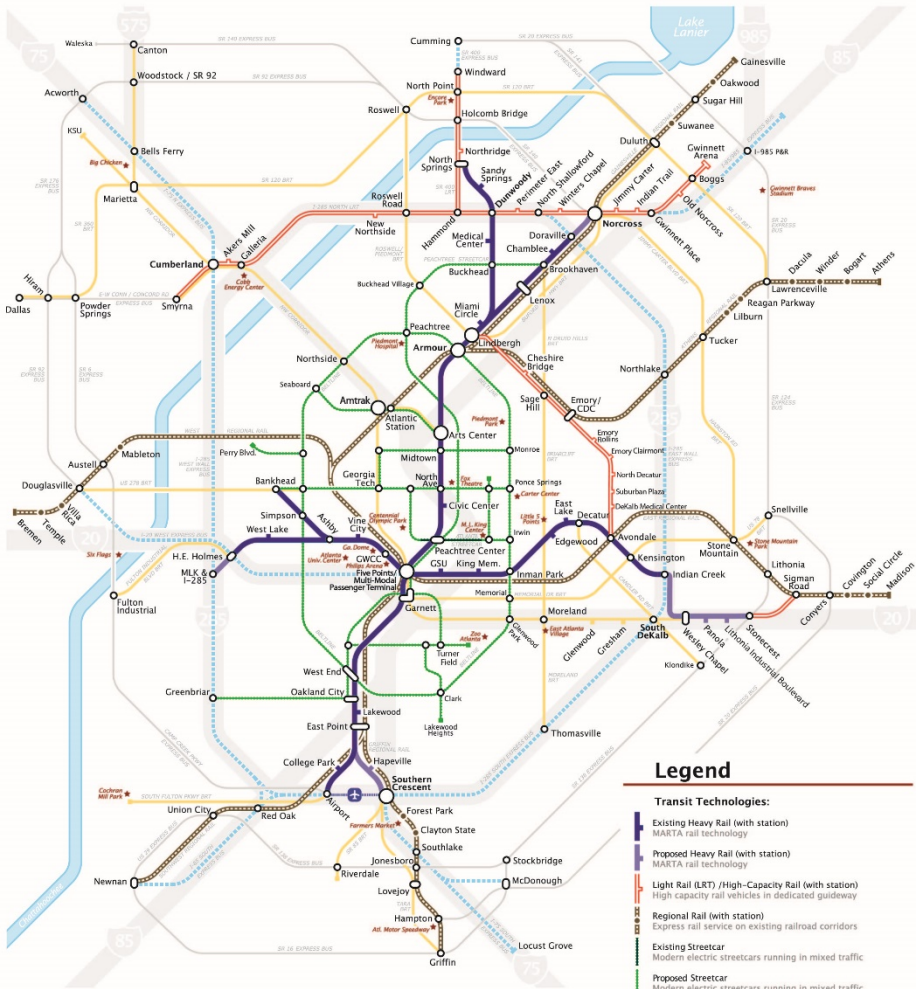
Shayna Pollock



REGIONAL TRANSIT VISION

Concept 3

The Atlanta Region's Long-Range Transit Vision



- Around 61 projects
- All-Encompassing Project List
 - Previous Concept 3 List
 - Local Transit Plans
 - More MARTA
 - Other state, local and regional plans
- Reviewed by stakeholders
- Reduced/Combined down to current list
- [Draft Project Map](#)
 - Project Name
 - Mode
 - To/From
 - Project Sponsor

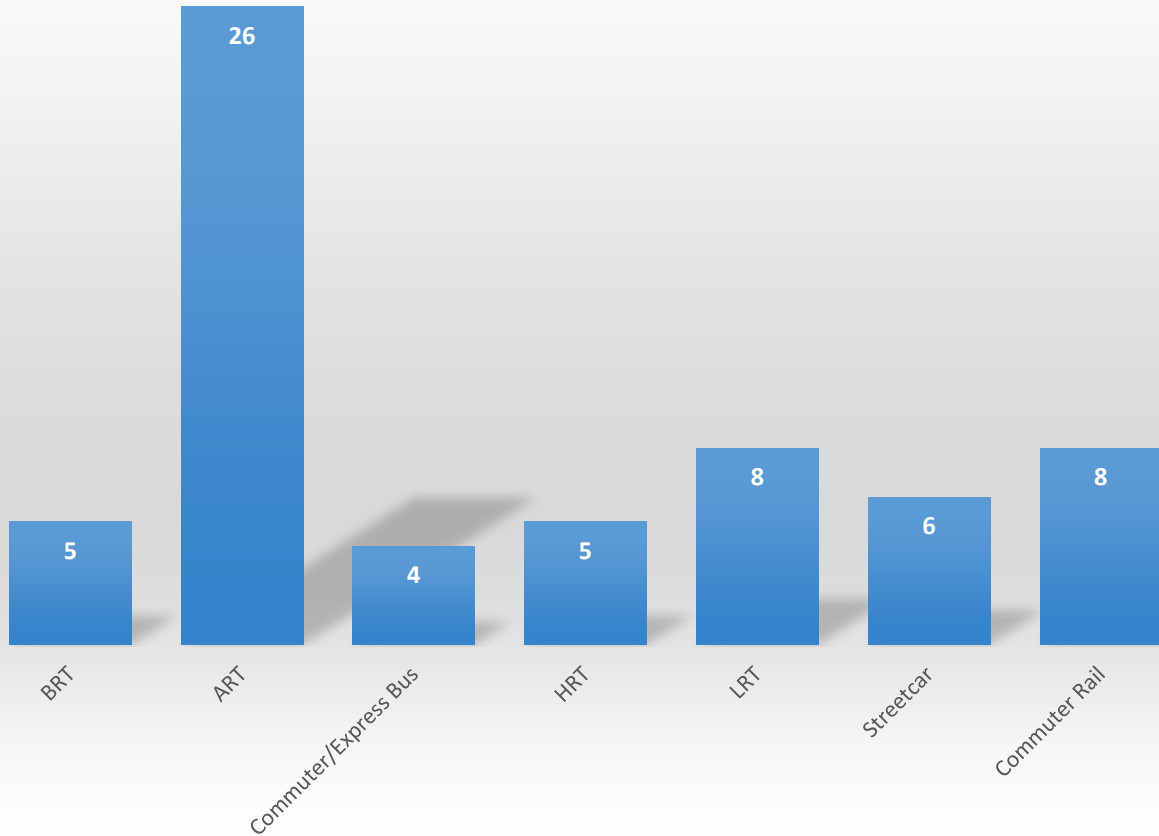
Legend

Transit Technologies:

- Existing Heavy Rail (with station)
MARTA rail technology
- Proposed Heavy Rail (with station)
MARTA rail technology
- Light Rail (LRT) /High-Capacity Rail (with station)
High capacity rail vehicles in dedicated guideway
- Regional Rail (with station)
Express rail service on existing railroad corridors
- Existing Streetcar
Modern electric streetcars running in mixed traffic
- Proposed Streetcar
Modern electric streetcars running in mixed traffic
- Arterial Bus Rapid Transit (BRT)
Enhanced bus service on major arterial roadways
- Expressway Bus
Express buses running in managed lanes on highways
- Arterial Express Bus
Cross-regional express bus service on major arterials
- Transfer Station

REGIONAL TRANSIT VISION (CONT'D)

Projects by Mode



Preliminary Mode Definitions

- BRT – includes in-line stations, pay before boarding, travels in managed or dedicated lanes
- ART – travels in mixed traffic, includes technology for signal prioritization, queue jumping design
- Commuter Bus/Express Bus – travels in managed lanes, minimal stops, pay as you board
- HRT – MARTA heavy rail service
- LRT – Powered by overhead electric lines, runs in dedicated ROW
- Streetcar – Powered by overhead electric lines, runs in mixed traffic
- Commuter Rail – Travel at higher speeds, longer distances between city centers and suburbs, regional service

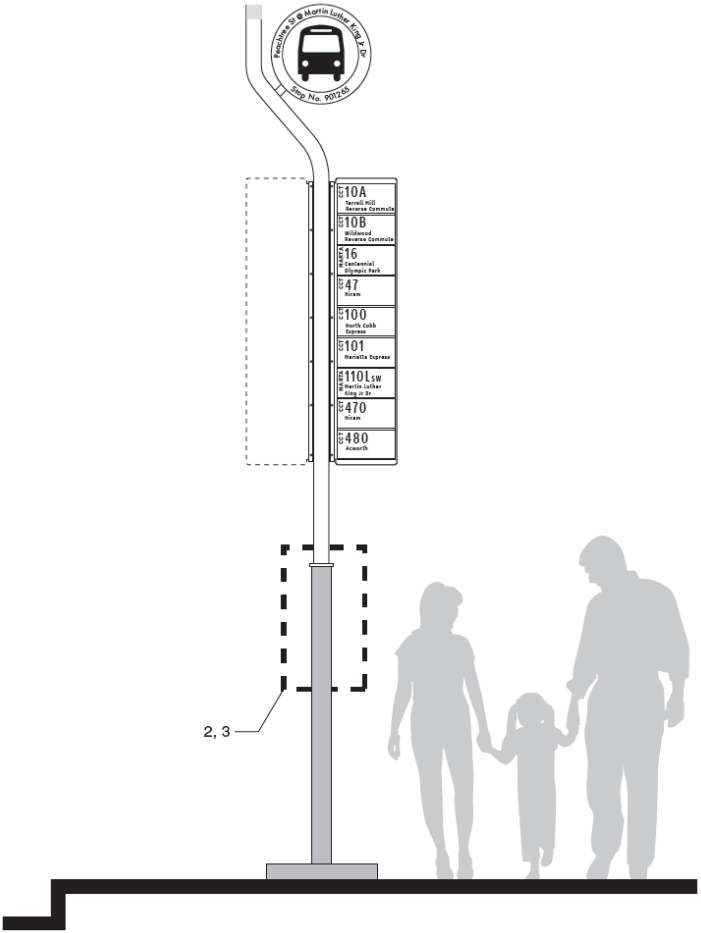
LOCAL PLANNING STUDIES



OPERATOR TECHNOLOGY COORDINATION



OPERATOR TECHNOLOGY COORDINATION (CONT'D)

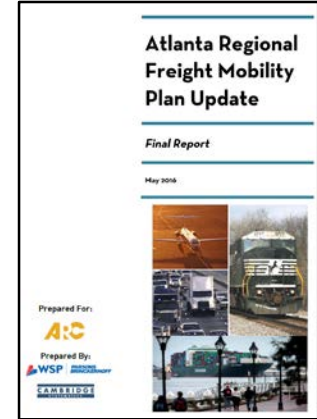
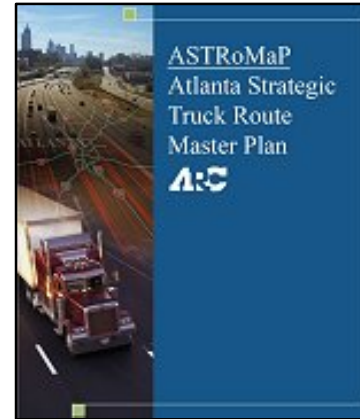


FREIGHT PLANNING & TRUCK PARKING

Daniel Studdard



HISTORY OF ARC FREIGHT PLANNING



Freight Advisory
Task Force
Formed

2003

Atlanta Regional
Freight Mobility
Plan

2005-2008

ASTROMaP

2010

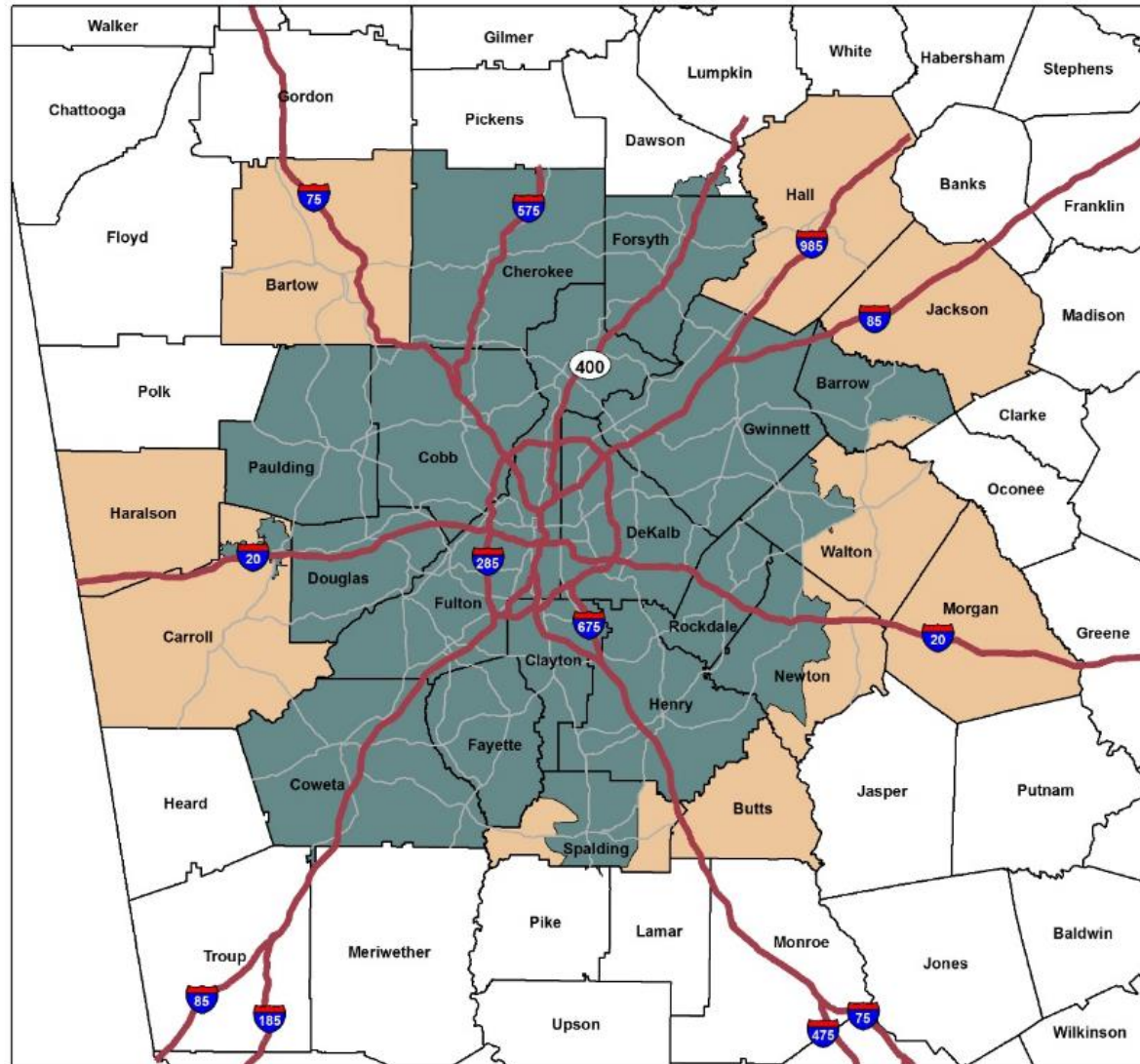
Atlanta Regional
Freight Mobility
Plan Update

2015-2016

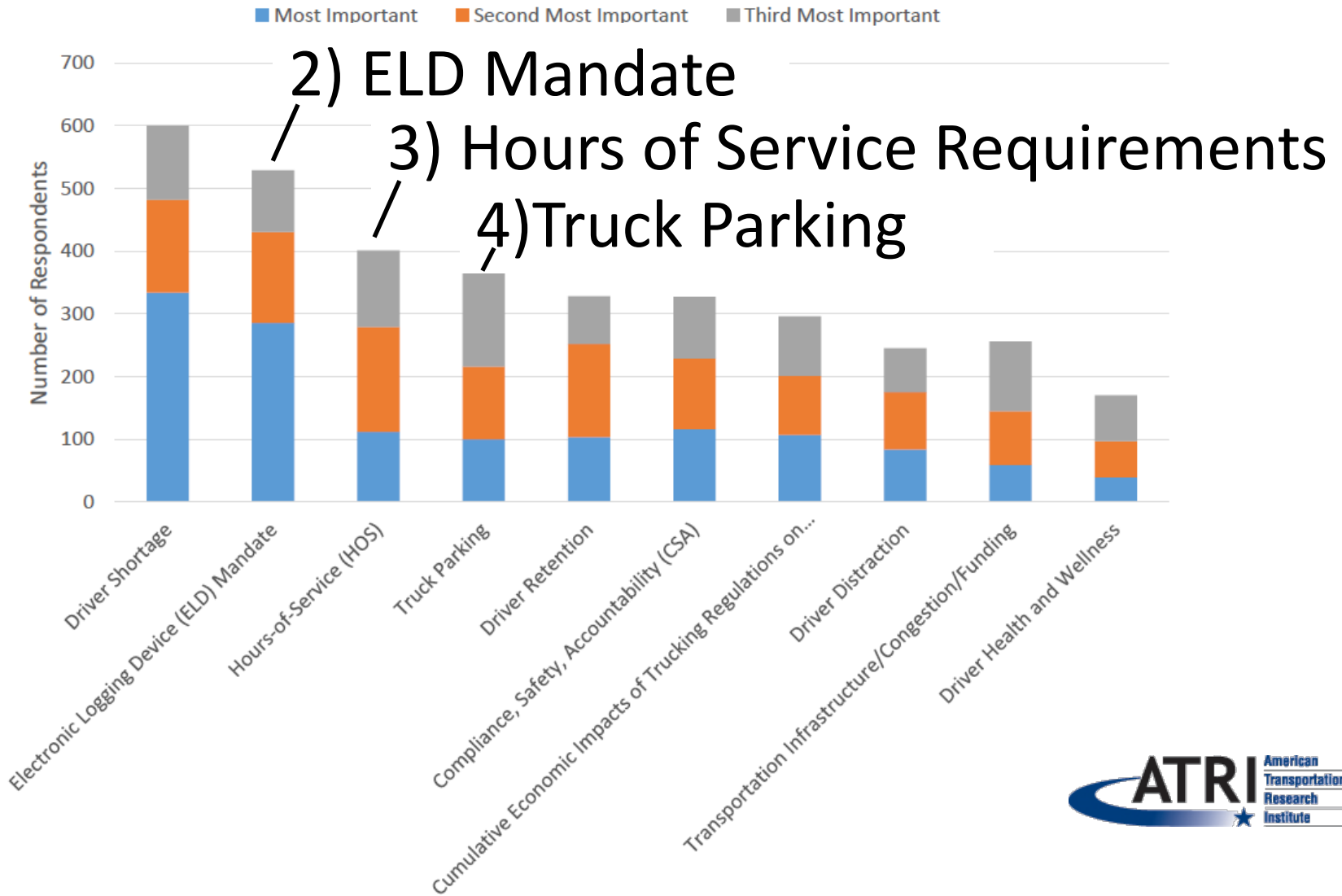


ATLANTA REGIONAL TRUCK PARKING ASSESSMENT STUDY

- Existing and Future Truck Parking Needs
- Study Completion: Spring 2018
- Study Area:
 - ARC MPO
 - Key Adjacent Counties



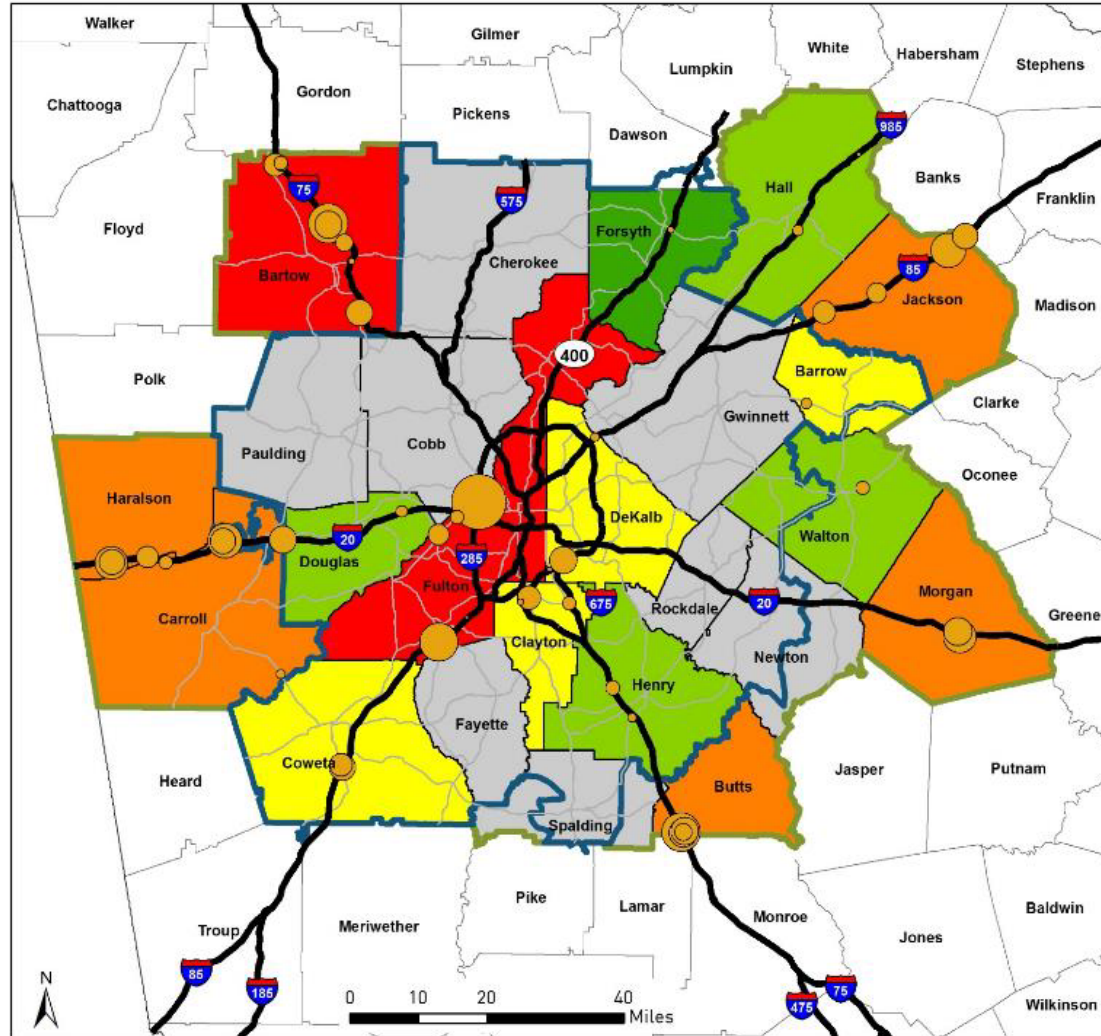
ATRI Critical Issues in the Trucking Industry 2017



ATLANTA REGIONAL TRUCK PARKING ASSESSMENT STUDY

Private Spaces by County

County	Spaces
Fulton	698
Bartow	575
Butts	450
Carroll	360
Haralson	332
Jackson	309
Morgan	259
Coweta	165
DeKalb	114
Clayton	105
Barrow	85
Henry	40
Walton	25
Douglas	20
Hall	19
Forsyth	5
Total	3,561



Atlanta Regional Truck Parking Assessment Study

Primary Privately-Owned Truck Parking Facilities (Tier 2a)

Number of Spaces at Facility
 • 1
 • 10
 • 100

Number of Spaces in County
 >500
 201 - 500
 51 - 200
 6 - 50
 0 - 5
 Zero

Expressways
 Regional Truck Routes
 MPO Boundary
 Key Adjacent Counties



Date: May 2017

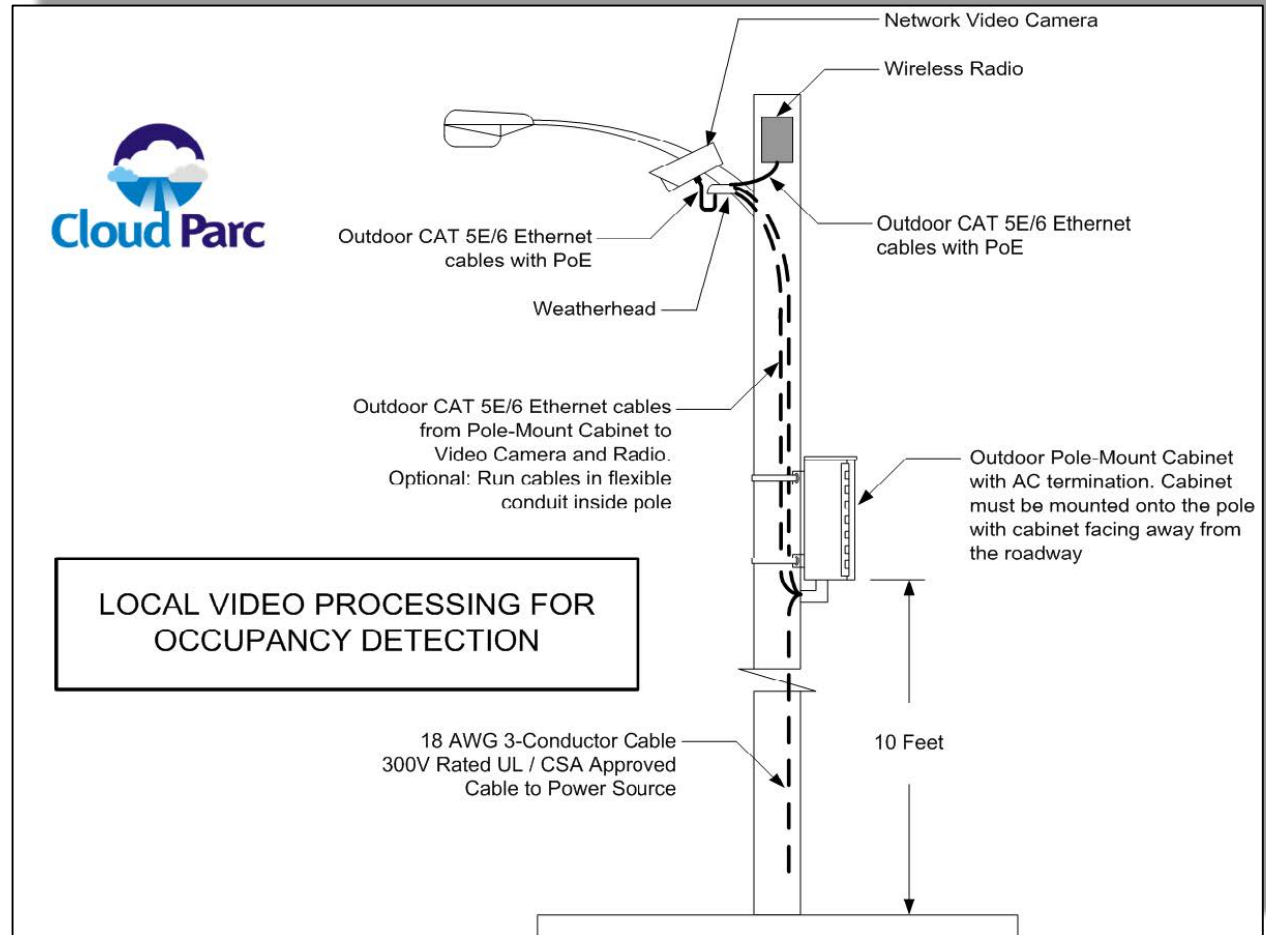
Sources: ARC, GDOT, EPD, Jason's Law, Company Websites

PARKING DETECTION TECHNOLOGY

FDOT



Cloud Parc



CLUSTER PLAN PROCESS

Plan Elements

- Existing Conditions/ Needs Assessment
- Traffic Study
- Recommendations
- Prioritized Project List
 - Includes ITS, CAV, etc.
 - On-Deck Projects with more detailed analysis
 - What projects will be implemented next?
- Extensive Outreach Efforts

Regional
Transportation Plan



Freight Cluster
Plan

ConnectATL

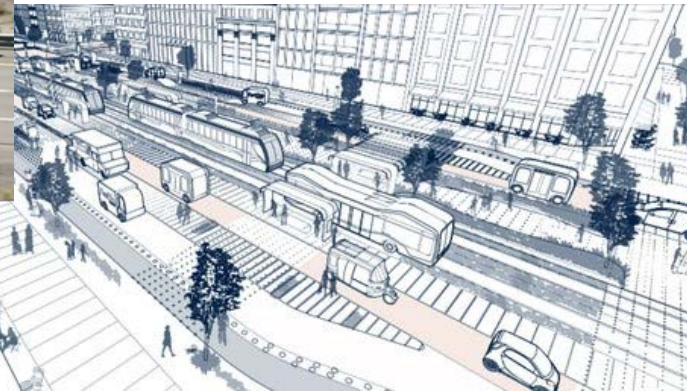
Takeaways and Next Steps

Leslie Langley

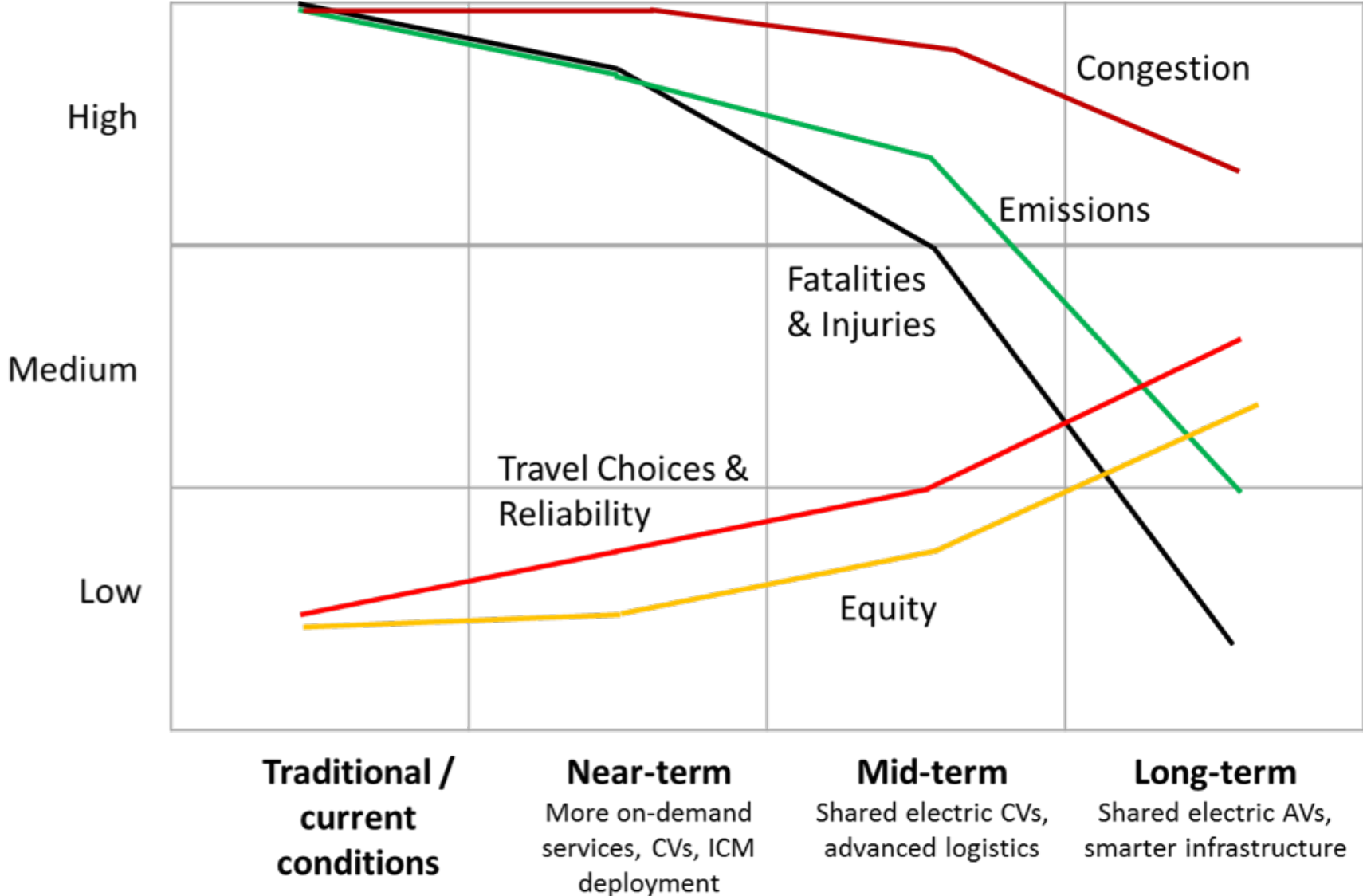


OUR CITY AS LIVING LABORATORY.

TEST, LEARN, ITERATE.



PURPOSE



WHO



Over 300 People

10 Exhibitors

11 Sponsor Agencies

25 Volunteers

36 Speakers

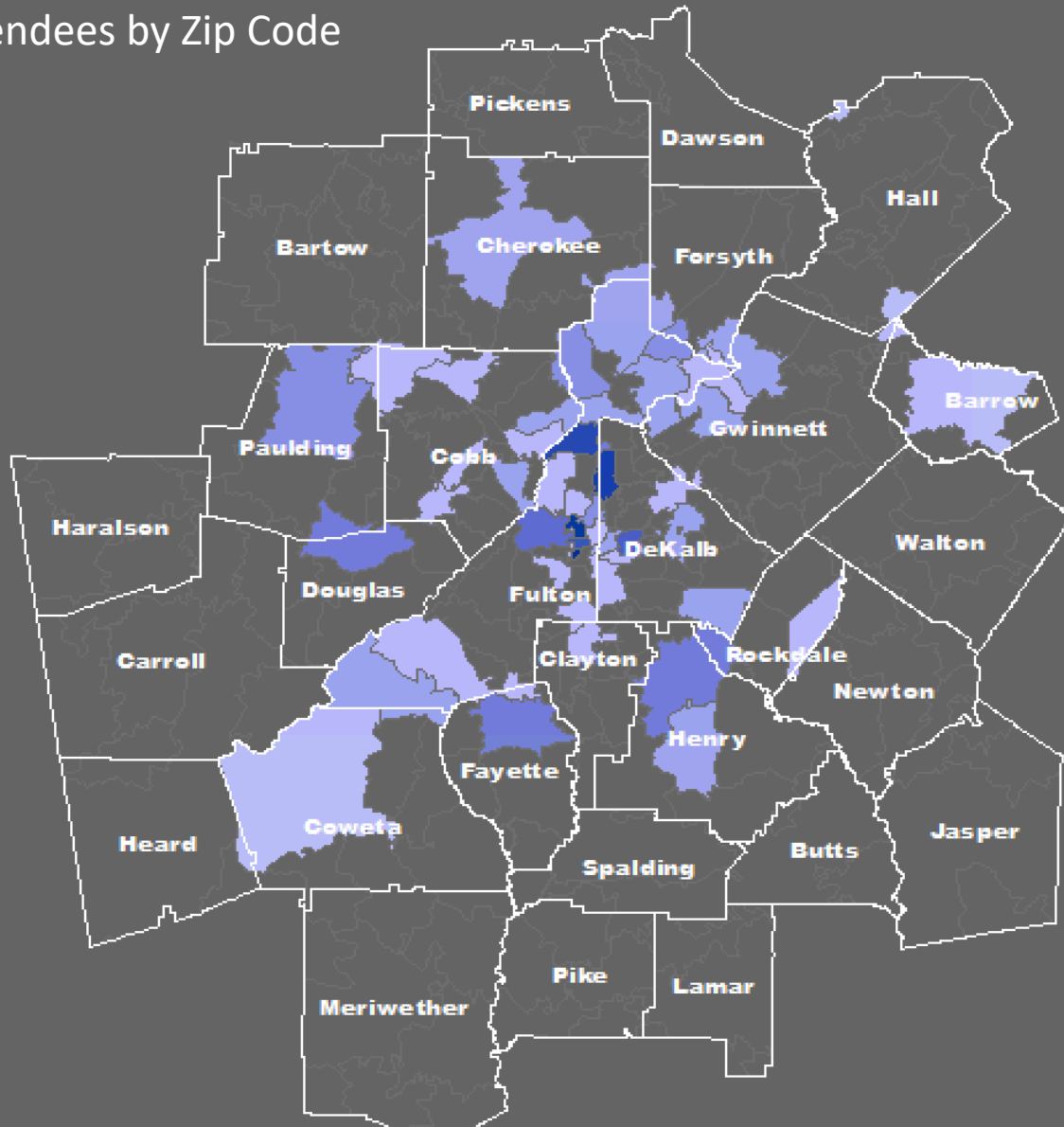
118 Industry Leaders

152 Local Gov't/Transit Agency/Non-Profit Org.



WHO (cont'd)

Attendees by Zip Code



TRENDS

1. **IT'S NOT JUST CARS**
2. **FREIGHT MAY BE FIRST TO AUTOMATE**
3. **IN THE AUTONOMOUS FUTURE, TRANSIT REMAINS KEY**
4. **EQUITY CONSIDERATIONS SHOULD BE PART OF THE PLANNING PROCESS**
5. **USE THE TECHNOLOGY...OR RISK LETTING IT USE YOU**
6. **GET READY TO MOVE BEYOND THE ONE-PERSON, ONE-CAR MODEL**
7. **SMART TECHNOLOGY CAN HELP EVEN THE PLAYING FIELD**
8. **IN THIS NEW WORLD, DATA SECURITY IS PARAMOUNT**

A dark blue background with a network of glowing nodes and lines in shades of blue, red, and yellow, suggesting connectivity and technology.

ConnectATL **Summit 2018**

The Future of Mobility and Communities

SEPTEMBER 07, 2018

8:30 am - 6:00 pm

Georgia Tech Hotel & Conference Center



UPCOMING TOPICS

- Keynote by Ashley Hand, Co-founder of CityFi
 - Smart City Visioning, Transportation Happiness Index, AV's CV's in our communities
- Cybersecurity
- Curb space management
- Building today while designing for tomorrow
- The shared economy
- Public Engagement in the digital age
- 2 workshops

For Updates, visit: connectATL.org



It last September was a resounding success thanks to the rich dialogue created by partners have been hard at work planning for and implementing solutions to prepare future of our communities. work for how community leaders, civic leaders, and business leaders can work er connected, and more prosperous Atlanta region. This event will serve as a signal a leader in planning for the future of mobility and smart cities and regions.

8:25 a.m.	Registration Open
8:55 a.m.	Welcome Address Speakers: Doug Hooker & Mike Alexander
9:40 a.m.	Keynote
10-10:10 a.m.	Networking break + Exhibit Visit
10:55-11:20 a.m.	Panel Discussion
12:00-12:55 p.m.	Lunch
1:30 p.m.	Breakouts Round 1
2:55 p.m.	Networking Coffee Break & Exhibition Visit
4:30 p.m.	Breakouts Rounds 2 + Workshop Option
5:30 p.m.	Wrap-up and Cocktail Hour

[ConnectATL 2018 Sponsorship Packet](#)

[VIEW](#) >

From our News Center

[The Future of Mobility has Arrived: Riding in a Self-Driving Car](#)

ARC NewsCenter

[Eight Takeaways from ConnectATL, ARC's Summit on the Future of Mobility](#)

ARC NewsCenter

[ARC's ConnectATL Summit to Help Region Prepare for Future of Mobility](#)

ARC NewsCenter

Regional Transit Takes Historic Leap Forward

Atlanta Region Transit Link Authority

[Learn more](#)

CIVIC DINNERS

Want to build community? Pull up a chair

[Join the conversation](#)

YOUR WORK MIGHT BE STRESSFUL. YOUR COMMUTE DOESN'T HAVE TO BE.

[DRIVE CHANGE FOR A BETTER COMMUTE](#)

[Learn More](#)

REGIONAL TRANSPORTATION SYSTEM MANAGEMENT AND OPERATIONS (TSMO) AND REGIONAL ITS ARCHITECTURE UPDATE



Maria Roell

TSMO/ITS FEDERAL REQUIREMENTS FOR MPOs

- Identification of operational and management strategies to improve the performance of existing transportation facilities to relieve vehicular congestion and maximize the safety and mobility of people and goods;
- The development, update, and ongoing maintenance of the Atlanta Regional ITS Architecture;
- Addressing congestion management through the Congestion Management Process (“CMP”), including coordination with TSMO activities and consideration of ITS technologies related to the architecture.

TSMO/ITS RFP

- Goals:
 - Stakeholder Committee
 - State of the Region
 - Initial Review of Data Governance
 - ITS Architecture Update
 - Initial Review of Potential Pilots
 - Local Agency Guide
 - Strategic Plan
- Proposals are due Wednesday, June 6, 2018
- atlantaregional.org/procurement/

BICYCLE AND PEDESTRIAN PLANNING AND SAFETY

Byron Rushing



ARC

WALK BIKE THRIVE: STRATEGIES FOR BUILDING A WALK & BIKE FRIENDLY REGION



PEOPLE-ORIENTED PLANNING

WHY DO PEOPLE WALK, BICYCLE, or RIDE TRANSIT?



"I like walking around at my job & home because there's nothing in every neighborhood. There are lots of people, I feel safe here, and it's quick. I'd like to see more casual street vendors along Peachtree St during the lunch hour, like King of Pops or hot dog stands."

—MARCUS



"I like walking in Midtown because you never know what you're going to get down here. There's a lot of diversity, lots to see."

—MARCUS



"I like because I'm still learning to drive, although I've had my learner's permit for three years now and I'm really not in a rush to get the license. I don't really like cars and feel safer on a bike."

—MARCUS



"I would like to see more sidewalks in other areas of Buford Highway, similar to the Buford Road entrance here."

—MARCUS



"I walk along More St. to get to the station, which is pleasant because there are lots of trees and lights at night."

—MARCUS



"Atlanta needs more pedestrian-friendly and public places for the benefit of pedestrians-friendly areas."

—MARCUS



"Taking the commuter bus is actually faster than driving because you're in the HOV lanes. Plus I can read on the bus."

—MARCUS



"This is my version of getting into the city. Making a walk to campus is a nice because there's a lot of things with special things to see."

—MARCUS



"I bike because it's faster than walking or driving — it's just efficient."

—MARCUS



"My car broke down so I'm taking transit today. I've been riding buses and trains since I was 12 and I never minded it. It's a good way to get some exercise."

—MARCUS



"It's not worth maintaining a car on campus. Walking gives me a chance to take to music and clear my head. It's relaxing and helps me think. I prefer better timing for pedestrian signals at intersections."

—MARCUS



"I live near parks, a cemetery, houses, and good sidewalks so there are lots of diverse people walking and running. I love seeing all the people and activity."

—MARCUS



"The commuter bus has nice big seats — you can just sit back and relax. Oh — and I get a discount on my car insurance because I don't drive that many miles."

—MARCUS



"I think some pedestrians do not respect the signals and some drivers don't respect the pedestrians. This makes a crossing that is unsafe for anyone. A bridge would be ideal, so everyone can be safe."

—MARCUS



"I would like to see more bike lanes to get to work. Just there to drive 30 miles or more. I would like to see the shopping center too if it were within 5 miles, unless I had to get something else. I would like to see more bike lanes. I don't like to take on the street."

—MARCUS



"I ride a bike because I can get exercise while I run errands. I really like getting to school using human power — no fossil fuels required."

—MARCUS



"We have marked bike routes in Roswell where you can ride on calm residential streets, but we need bike lanes or paths on the major roads. I would ride more often if it was easy and comfortable."

—MARCUS



"I bike because it's faster than walking, and I haven't figured out the trolley routes yet. I love biking to save time. I'm comfortable riding on campus because there are bike lanes and plenty of space. There are also plenty of bike shops and places I can get maintenance done."

—MARCUS

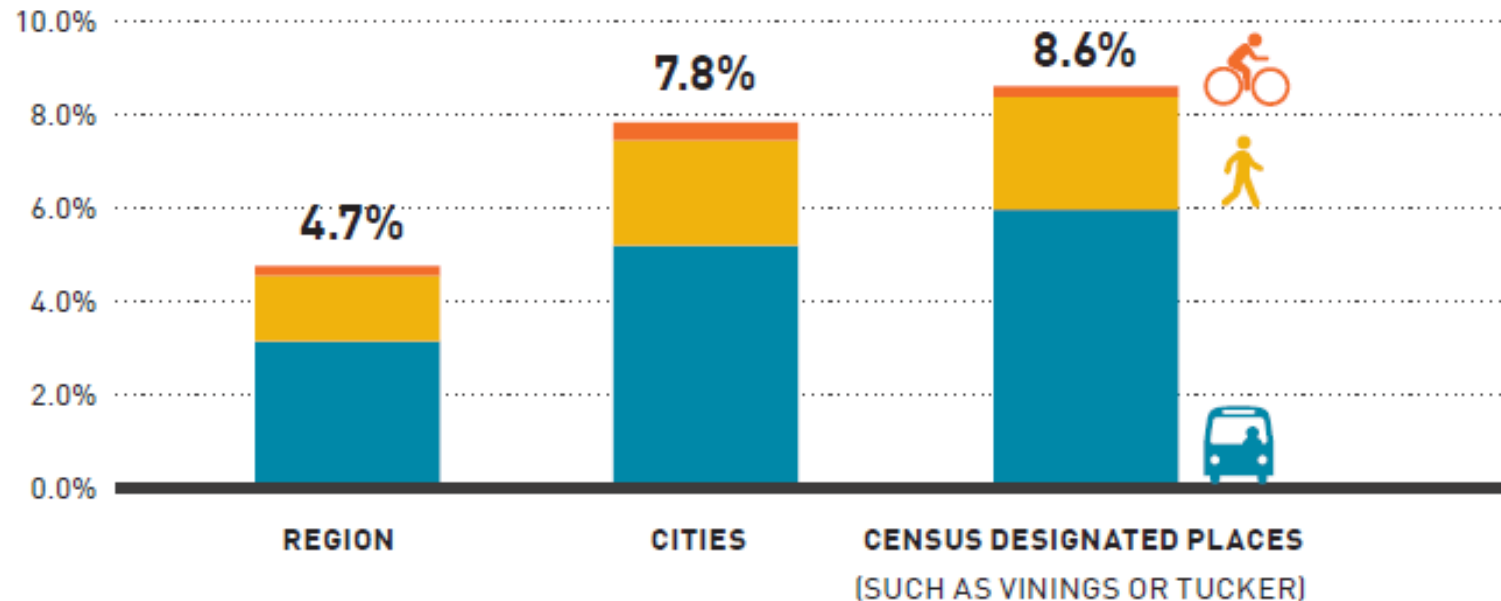


—MARCUS

DATA-DRIVEN PLANNING

WHERE DO PEOPLE WALK, BIKE, or RIDE TRANSIT?

LOCAL VS. REGIONAL DISTRIBUTION OF WALK, BIKE, AND TRANSIT COMMUTING

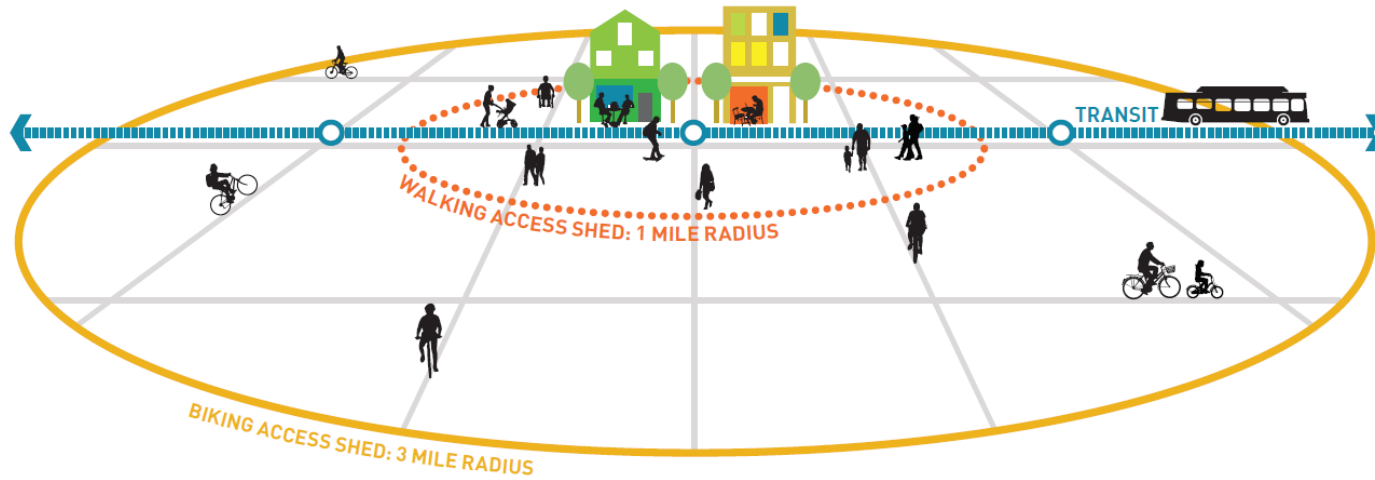


Source: US Census American Community Survey
3-Year Estimate. Table B08301.

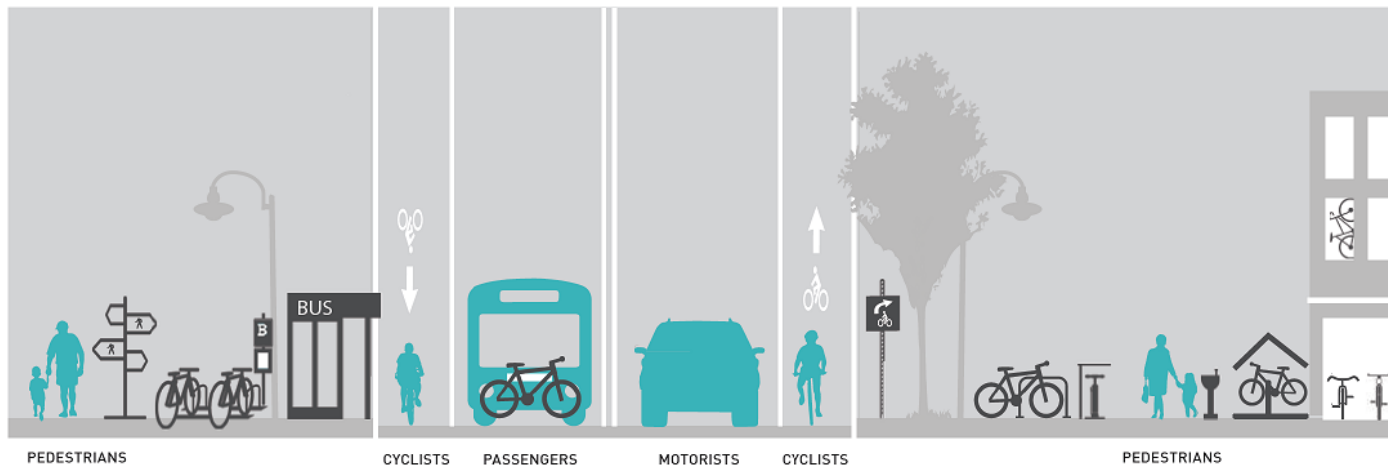
STRATEGY-BASED PLANNING

BUILDING BLOCKS OF ACTIVE COMMUNITIES

TRAVEL SHEDS:
AN ORGANIZING PRINCIPLE



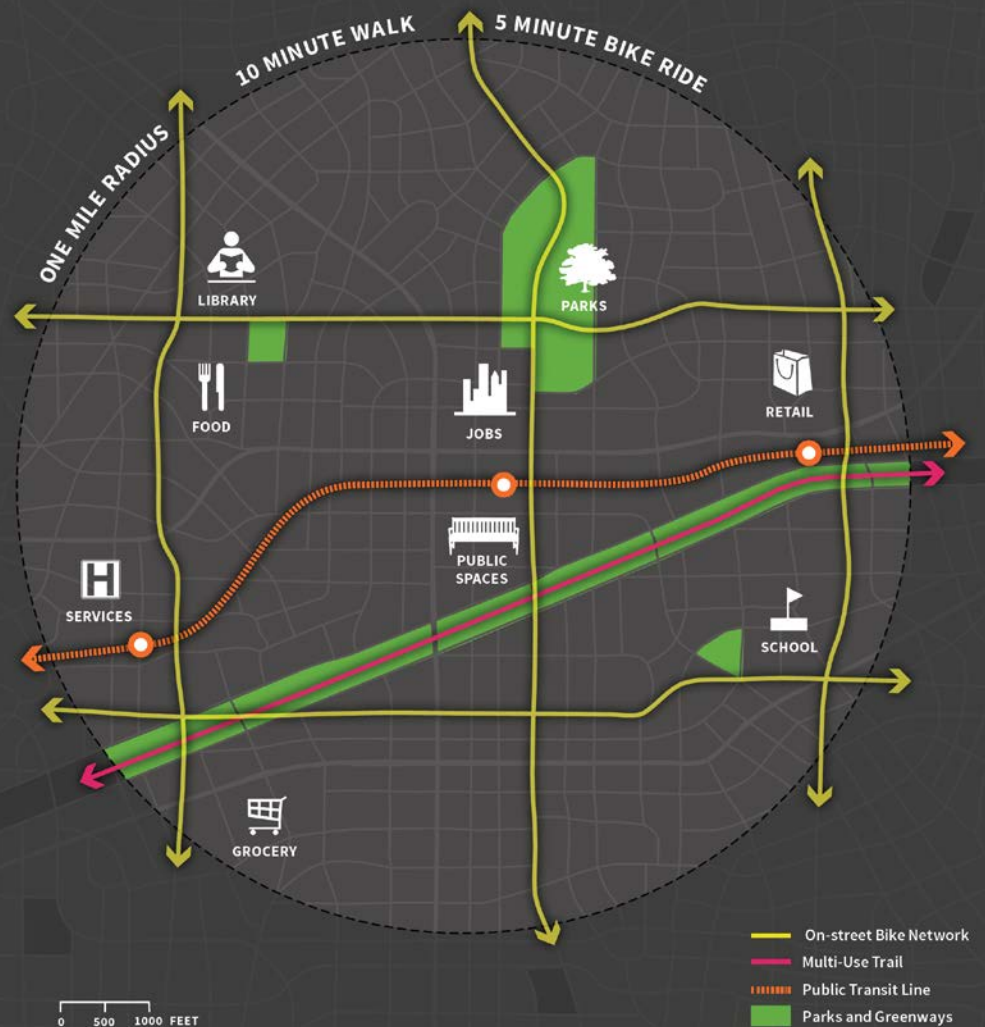
COMPLETE STREETS:
OPPORTUNITIES TO REDUCE TRAVEL BARRIERS



1) INVEST IN COMMUNITIES

“20-MINUTE NEIGHBORHOODS”

- **Fine-grained** mix of uses including parks, schools, commercial areas, and a variety of housing
- **Connected** street grid with 300-600 foot block lengths
- Bicycle **network** featuring bikeways $\frac{1}{4}$ - $\frac{1}{2}$ miles
- **Convenient** connections to trails and transit



2) FOCUS ON SAFETY & EQUITY

ELIMINATE TRAFFIC DEATHS

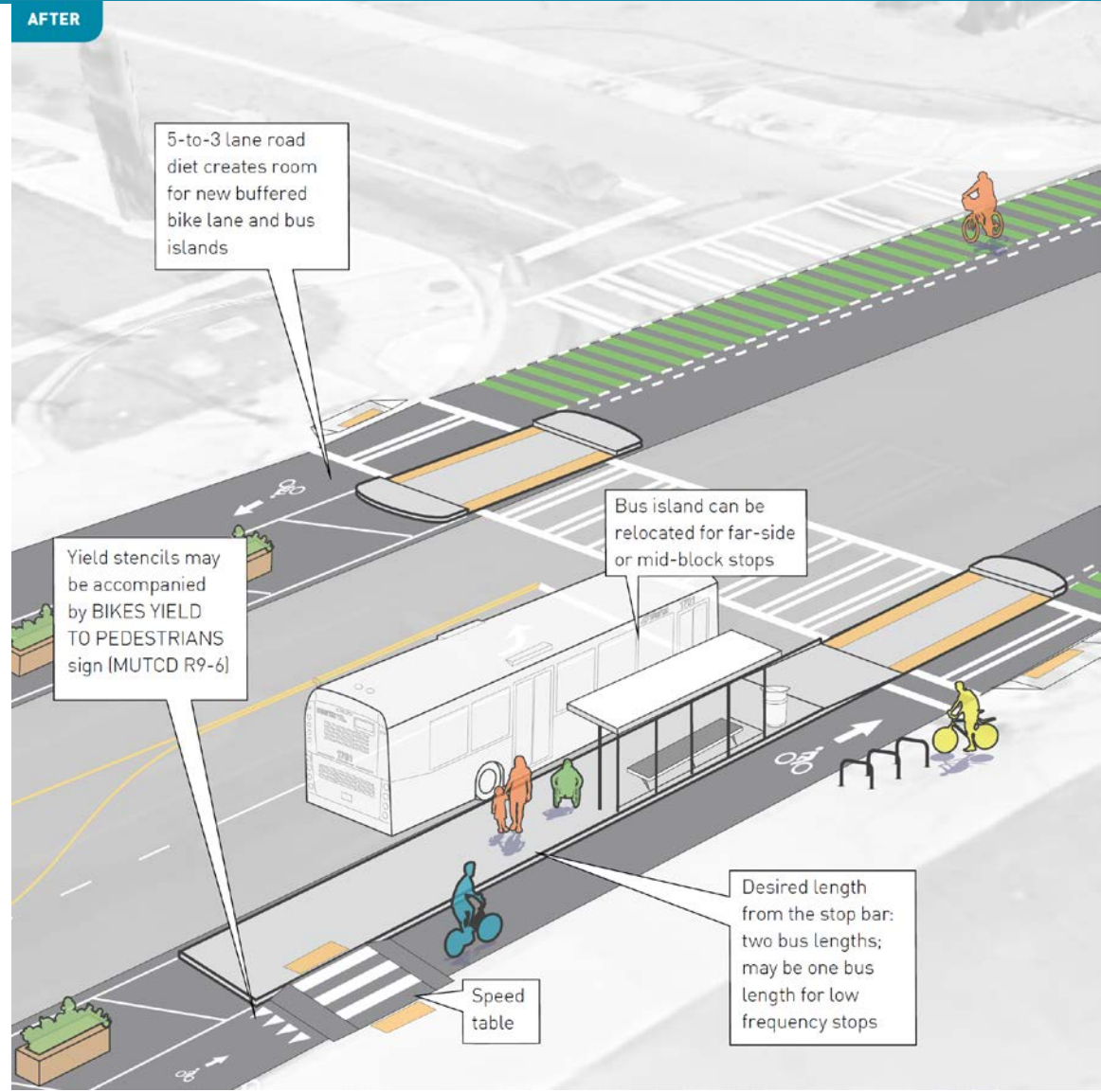
- **Safe systems** of streets, speeds, vehicles, and people
- Use **systemic approaches** to connect risks to cost-effective designs
- Data-driven solutions and evidence-based **countermeasures**:



3) SUPPORT REGIONAL TRANSIT

EXPAND FIRST-LAST MILE ACCESS

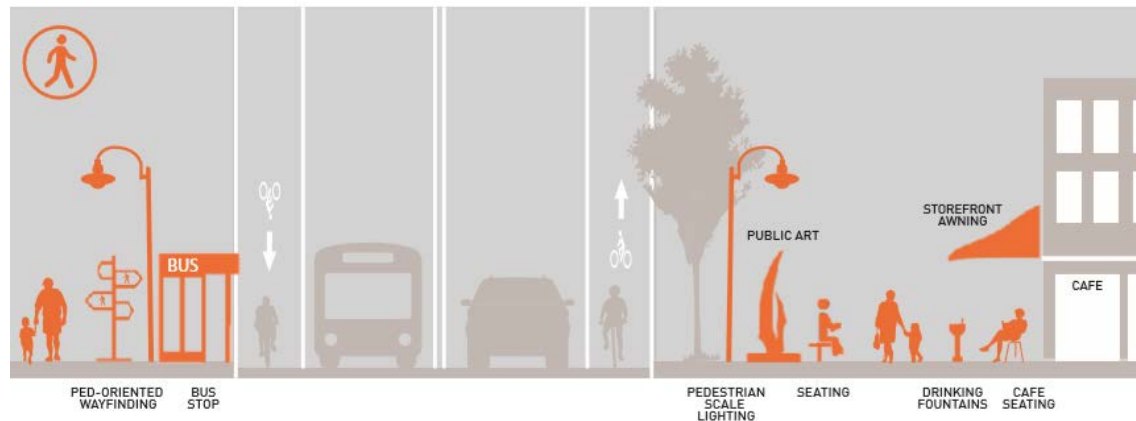
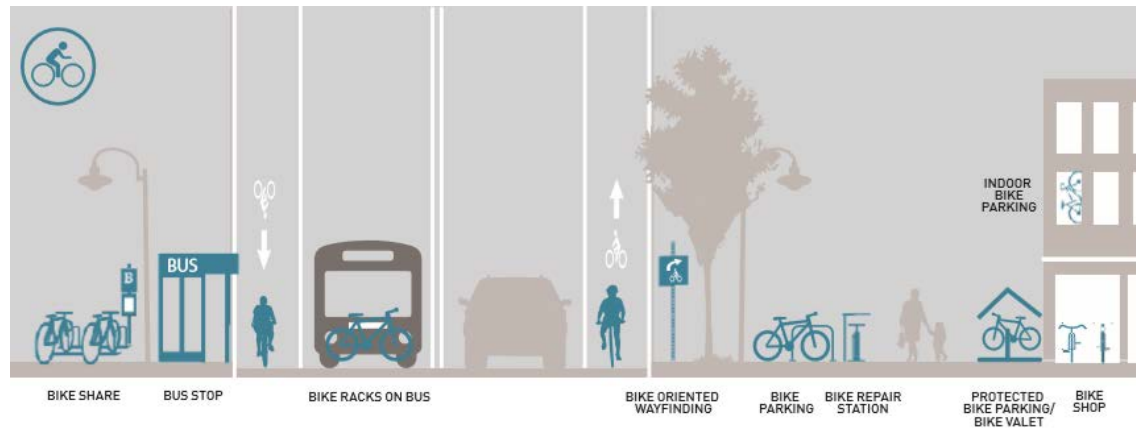
- **Improve roadways** around transit stops and stations
- **Improve access** to transit system at stops and stations
- **Mitigate conflicts** between transit and bikeways
- **Improve bike parking** at transit stops and stations



4) BUILD COMPLETE STREETS

DESIGN INFRASTRUCTURE FOR PEOPLE

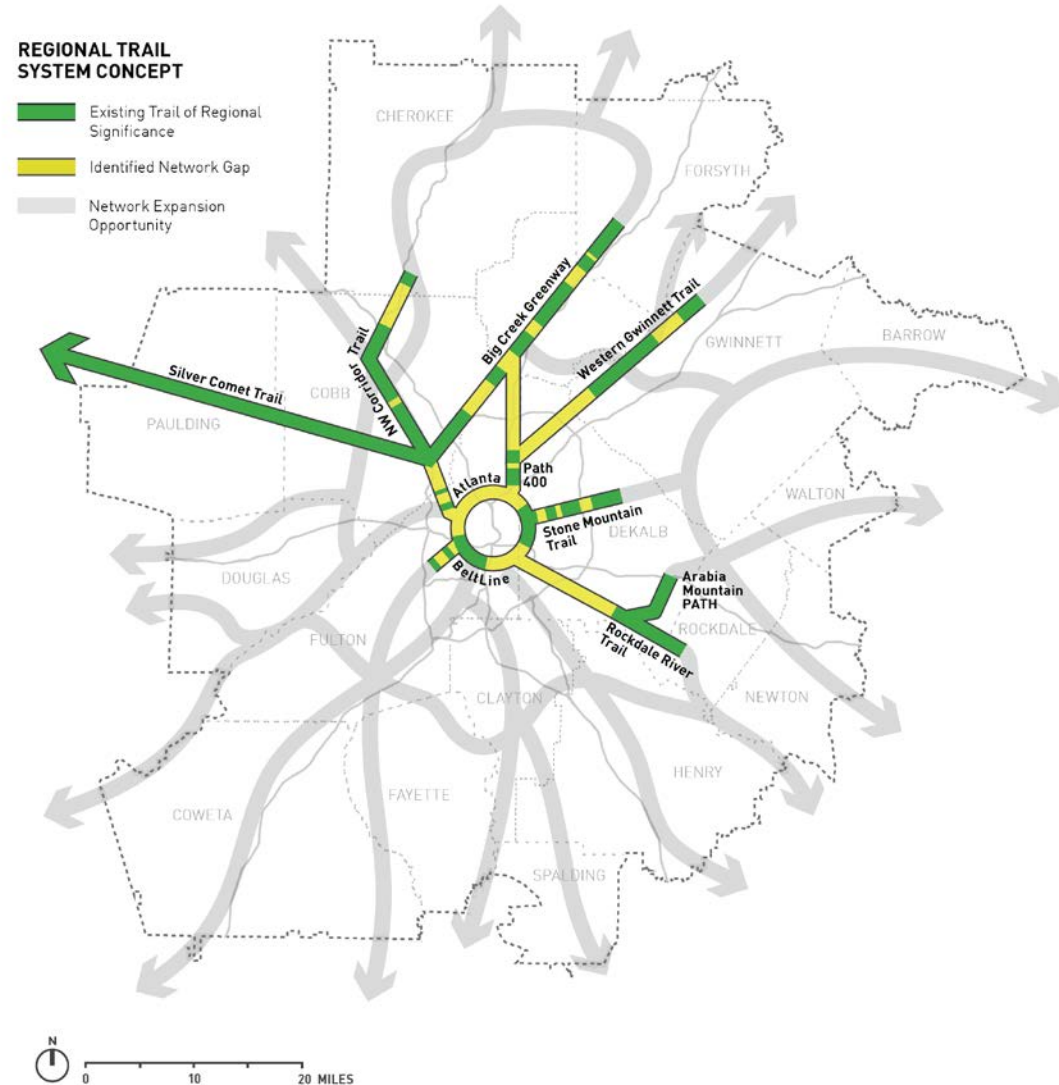
- **Increases connectivity** of the bikeway network
- **Provides convenient access** to destinations
- **Minimizes potential for bodily harm:** adequate operating space, visibility at intersections
- **Intuitive, context-appropriate design** promotes comfort and predictability for all roadway users



5) CONNECT A REGIONAL TRAIL NETWORK

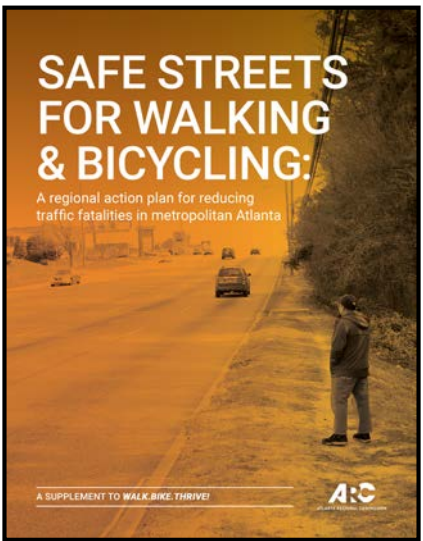
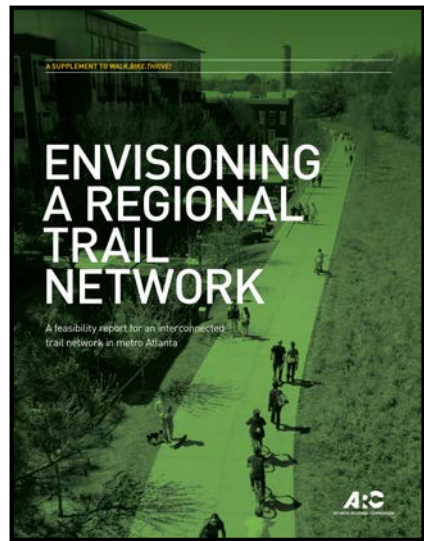
ACTIVE TRANSPORTATION “SUPER HIGHWAYS”

- Make walking and bicycling **safe, comfortable, and convenient**
- Follow **optimum desire lines** as closely as possible
- **Connect** and cross through municipalities
- Have uniform **high-quality** design throughout the route



ESTABLISHING A REGIONAL VISION

Walk. Bike. Thrive! and supplements



Byron Rushing

Bicycle & Pedestrian Program Manager
Atlanta Regional Commission

www.atlantaregional.org/bikeped

Questions/Follow-Up

- Regional Transit: Shayna Pollock – spollock@atlantaregional.org
- Freight and Truck Parking: Daniel Studdard, dstuddard@atlantaregional.org
- Bicycle and Pedestrian Planning: Byron Rushing, brushing@atlantaregional.org
- ConnectATL & Technology: Leslie Langley, llangley@atlantaregional.org (until Jun. 8, 2018); Melissa Roberts, mroberts@atlantaregional.org (beginning Jun. 11, 2018)
- Regional ITS Architecture Update & TSMO Action Plan: Maria Roell, mroell@atlantaregional.org