



**Gwinnett**  
Transportation

# 2019 Business Plan

August 2018



# Today's Agenda



## Mission and Department Overview



## Planning Initiatives



## Commission Priorities



## 2019 Requests and Potential Future Needs



# Department of Transportation

## Mission



The mission of the Gwinnett County Department of Transportation is to enhance quality of life by facilitating the **mobility** of people and goods **safely** and **efficiently**.

**Mobility**

**Safely**

**Efficiently**



# Department Overview

Program Delivery

Operations,  
Maintenance, and  
Traffic Engineering

Intermodal



Pre-  
construction



Construction



Operations  
and  
Maintenance



Traffic  
Engineering



Transit



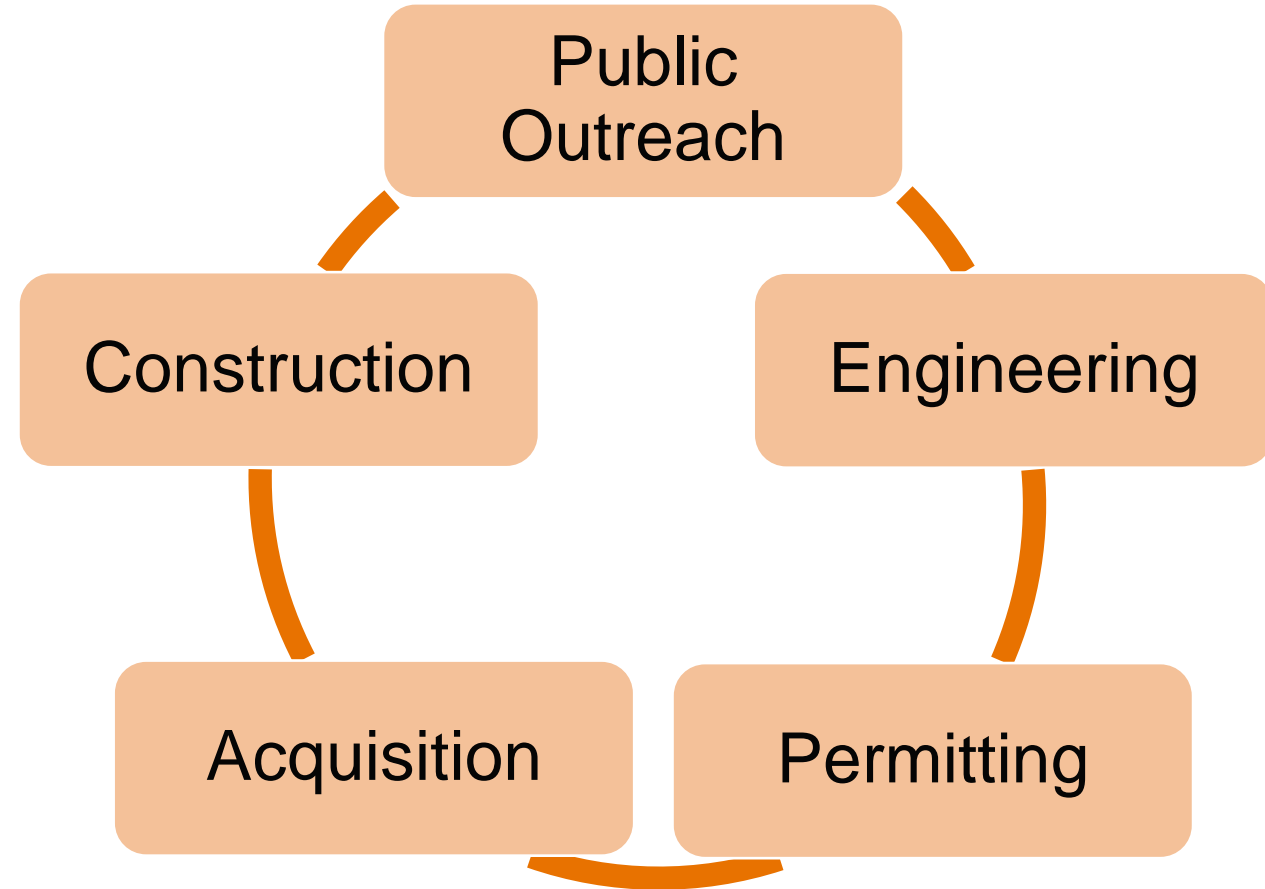
Aviation



# Department Overview – Program Delivery



- Special Purpose Local Option Sales Tax (SPLOST)
- More than \$2 billion in projects since 1986





# Department Overview – Traffic Engineering, Operations & Maintenance

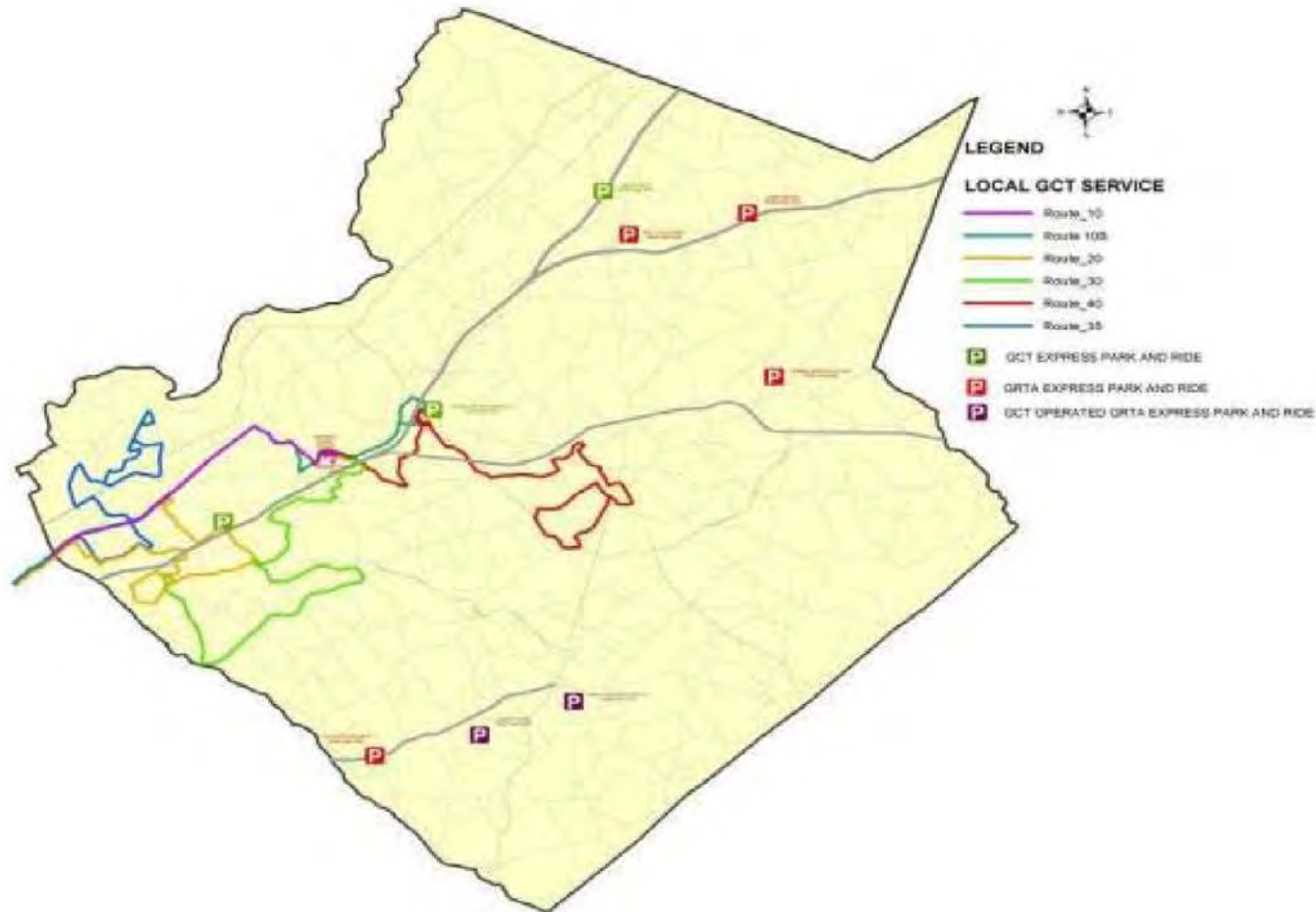


- 2,600 centerline miles of roadway
- 180 bridges and bridge culverts
- 20,000 traffic control signs
- 2,500 miles of sidewalk

- 721 traffic signals
- 230 miles of fiber optic cable
- 265 Closed Circuit Television cameras
- 220 flashing beacon locations
- 1,344 speed humps



# Department Overview – Transit



Federal & State Grants

Fare Box Revenue



County Operating Fund





# Department Overview - Airport



- Almost 95,000 airport operations (take-offs and landings) in 2017
- 3<sup>rd</sup> busiest airport in Georgia (2017)
- Approximately 300 based aircraft
- Maintain electrical systems and navigational aids
- Maintain more than 400 acres of airport property
- Manage master plan and capital projects



# Planning Initiatives



**Comprehensive Transportation Plan – Completed 2017**

**Traffic Management System Master Plan – Completed 2017**

**Countywide Trails Master Plan – Completed 2018**

**Comprehensive Transit Development Plan – Completed 2018**

**Truck Parking Study – Underway**

**I-85 Corridor Study – Underway**

**Airport Master Plan – Proposed for 2019**



# Planning Initiatives – Comprehensive Transportation Plan



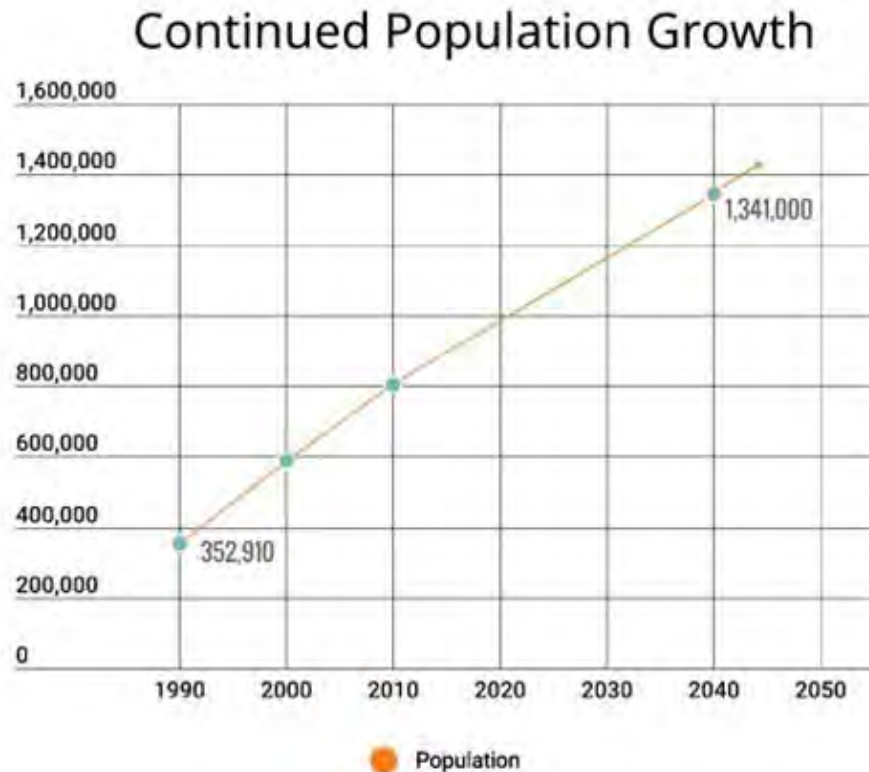
- Improve connectivity
- Leverage the county's transportation system to improve economic vitality and quality of life
- Improve safety and mobility for all people across all modes of travel
- Proactively embrace future transportation opportunities
- Continue to serve as responsible stewards of transportation resources





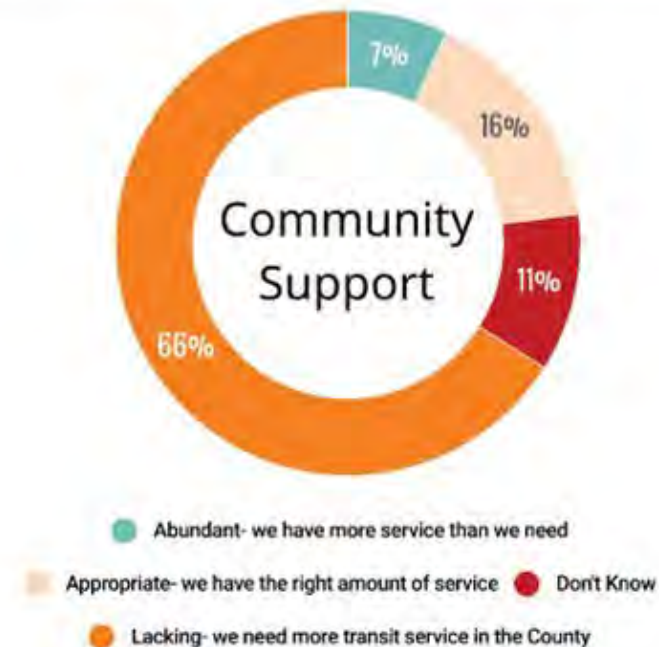
# Planning Initiatives – Transit Development Plan

## Why Transit? Why Now?



Based on ARC data. Woods & Poole data shows 1.5 million by 2040.

## Mobility Choices for Residents, Employees, and Visitors





# Planning Initiatives – Transit Development Plan

## Regional Transit Governance and Funding Bill House Bill 930

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Creation of the ATL (the Atlanta Transit Link)



Additional opportunity for transit sales tax



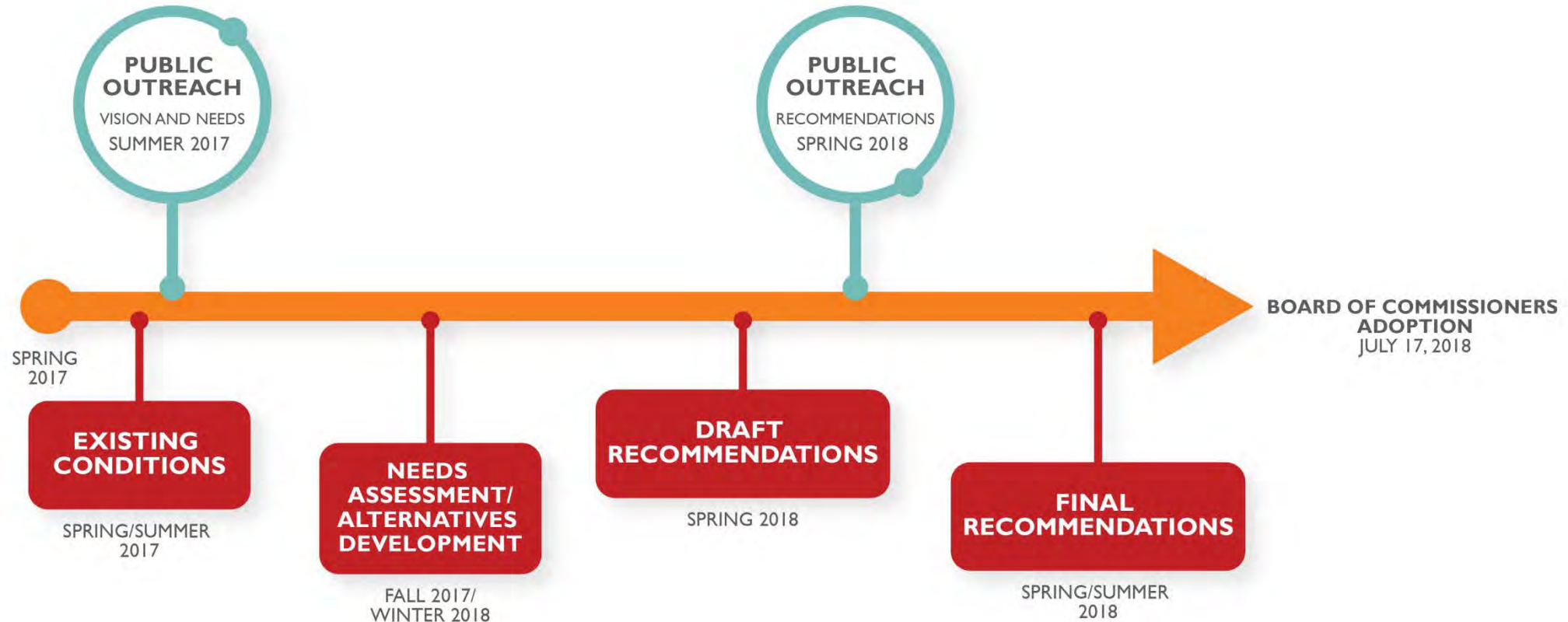
Opportunities for state contribution



# Planning Initiatives – Transit Development Plan



## PROJECT PROCESS



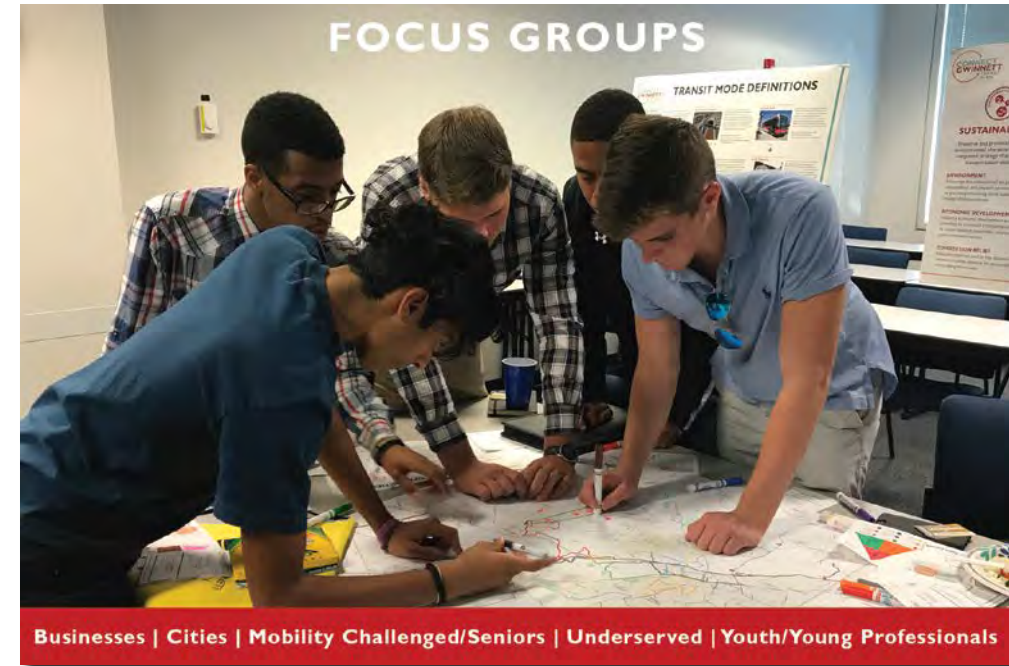


# Planning Initiatives – Transit Development Plan



## Initial Public Outreach

- Bus Tour – 3 routes, 12 stops
- Online Survey – 3,674 participants
- Community Events – 13 events
- Card Distribution – 40+ locations
- Focus Group meetings





# Planning Initiatives – Transit Development Plan

## System Goals and Priorities



Preserve and promote social and environmental character through an integrated strategy that addresses transportation solutions

ENVIRONMENTAL

ECONOMIC DEVELOPMENT

CONGESTION RELIEF



Utilize available resources in an efficient manner to meet the transportation need

EQUITY

PRODUCTIVITY AND EFFICIENCY

SYSTEM MAINTENANCE



Enhance the desirability and utility of the transit service for Gwinnett residents and workers

COVERAGE AND CONNECTIVITY

TRAVEL TIME REDUCTION

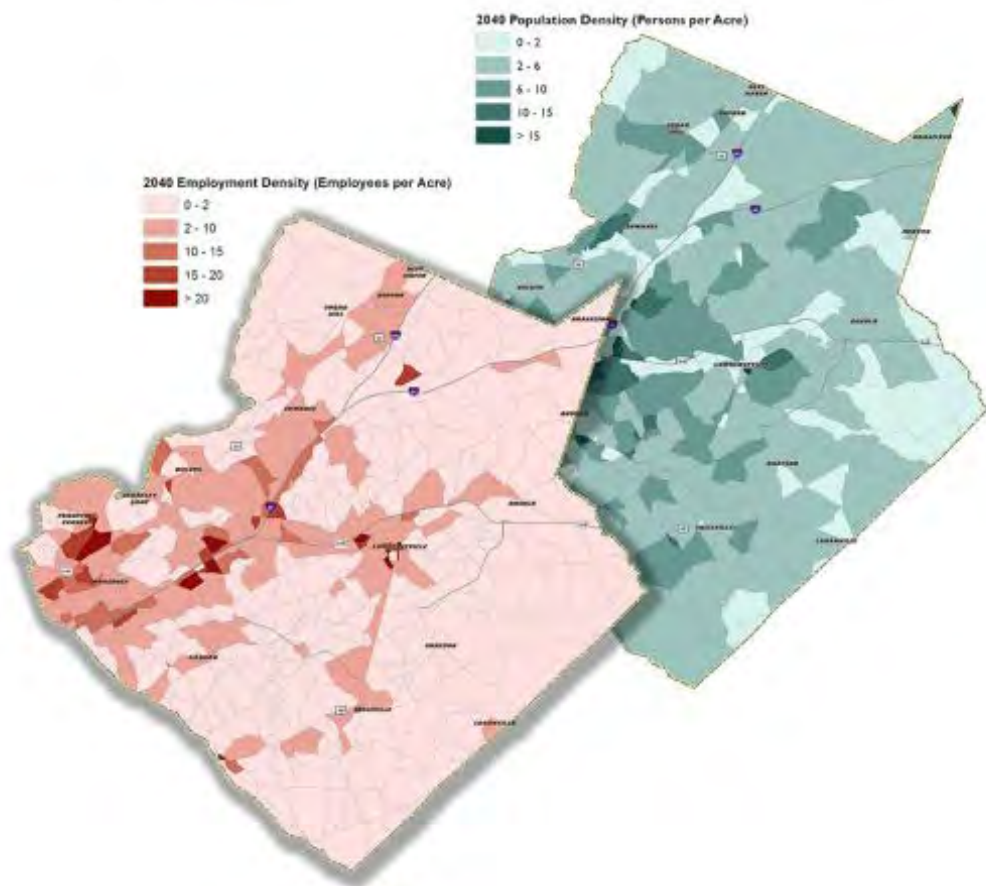
RELIABILITY



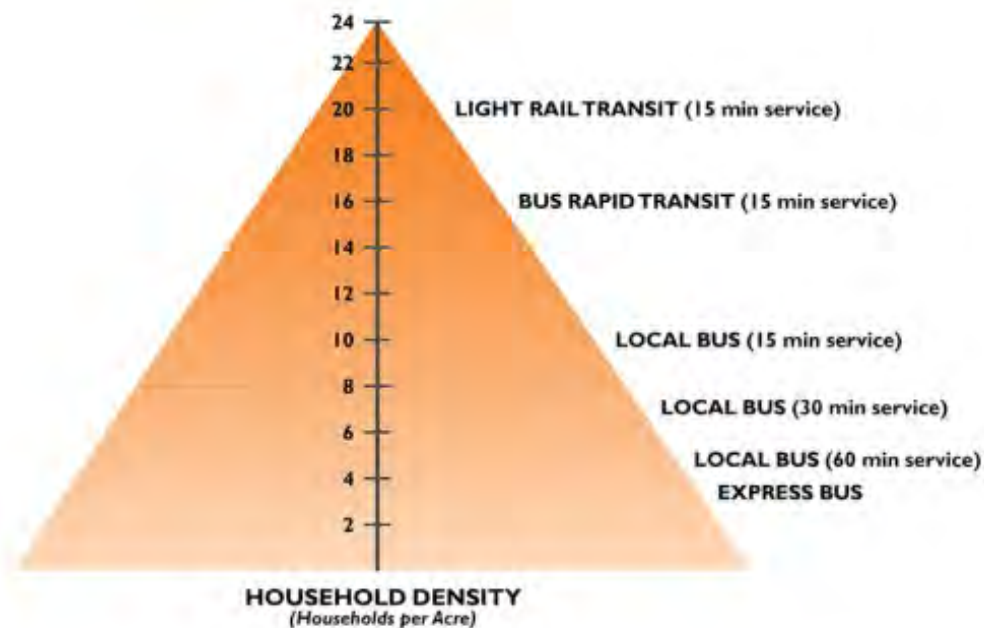
# Planning Initiatives – Transit Development Plan



## Demographics Analysis



## Technology-Demand Matching





# Planning Initiatives – Transit Development Plan



## Creation of Plans

Short-range (5 years)



Mid-range (10 years)



Long-range Phase 1 (30 years)



Long-range Phase 2 (30+ years)





# Planning Initiatives – Transit Development Plan

## Final Public Outreach

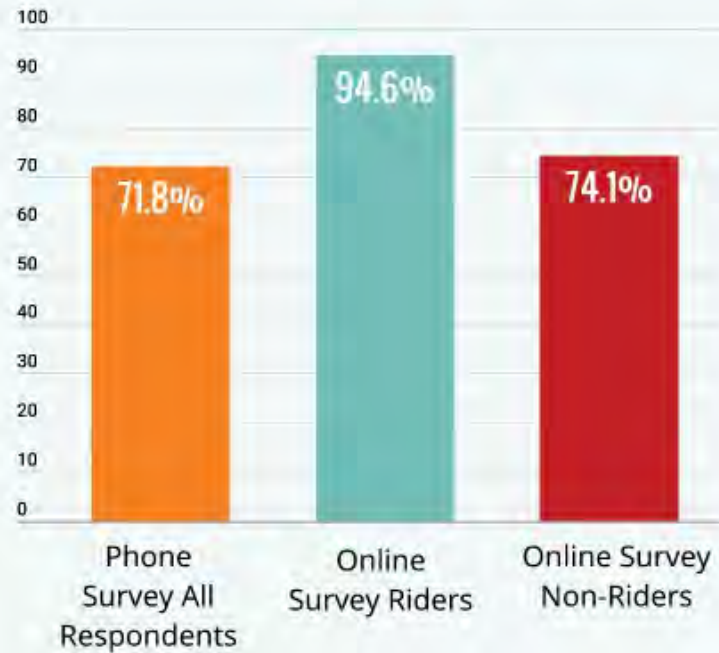
### Summary of Outreach





# Planning Initiatives – Transit Development Plan

## Support for Expanded Transit System



## Top 3 Improvements for More Frequent Use



Better connections to other areas in Metro Atlanta



More areas in Gwinnett served by transit



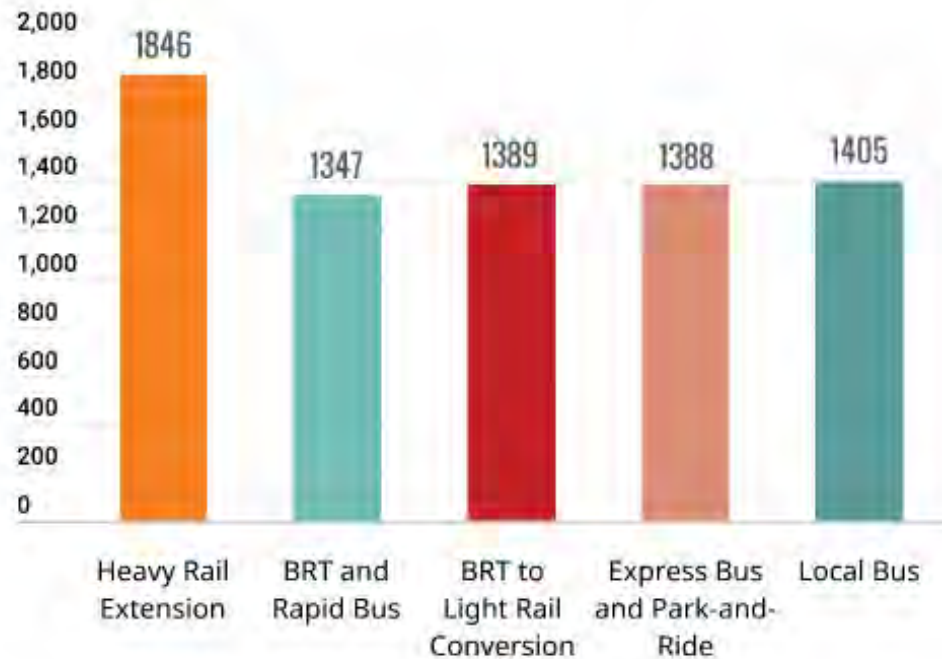
More frequent service



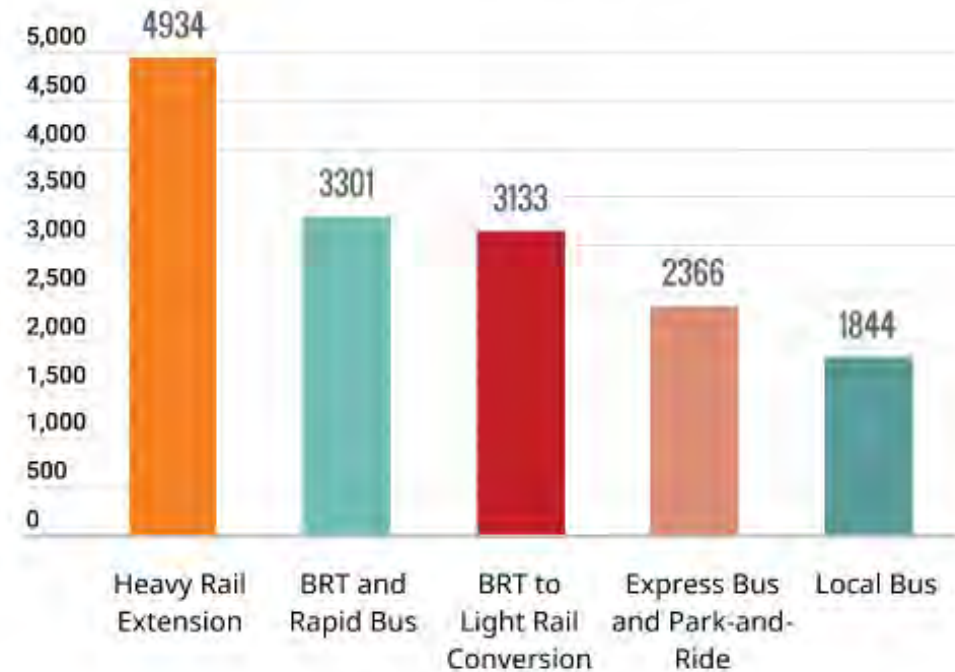
# Planning Initiatives – Transit Development Plan

## Prioritization of Long Term Investments

Phone Survey



Online Survey and Public Meeting





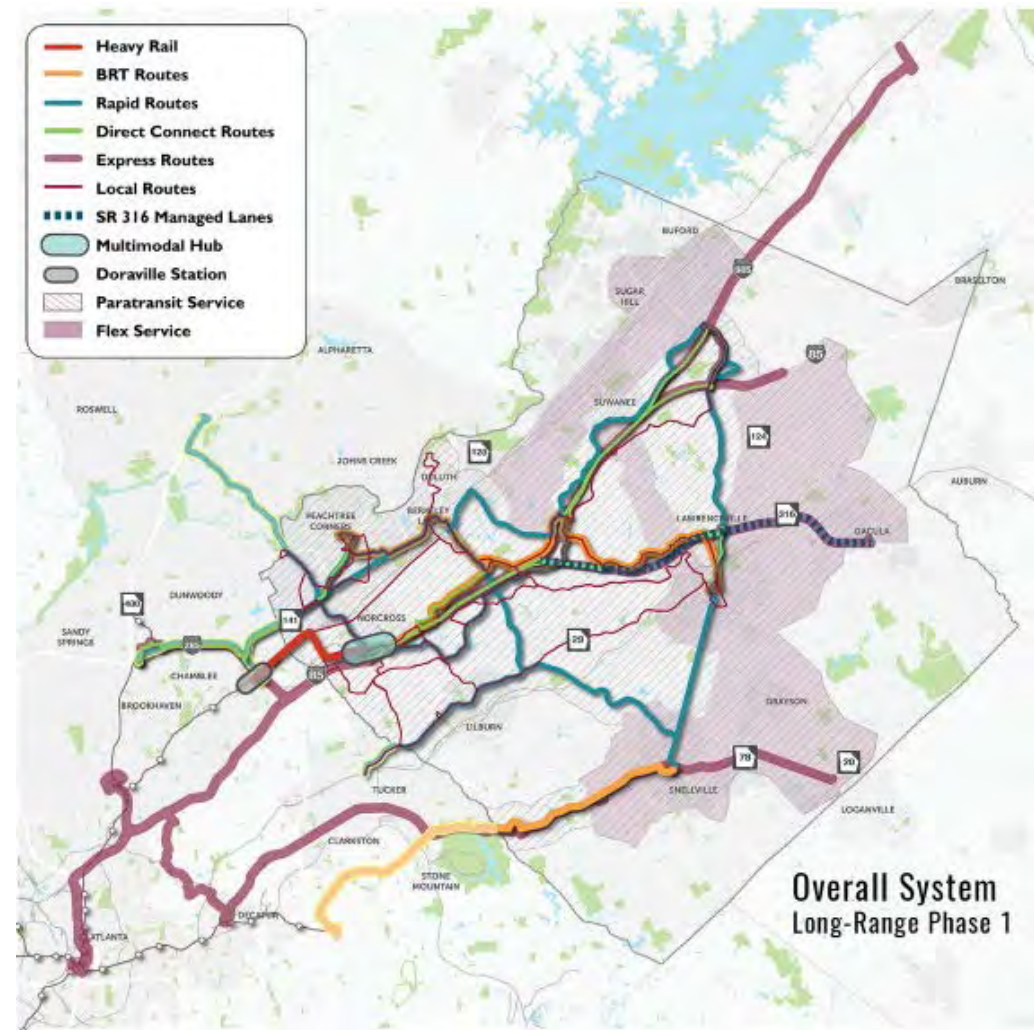
# Planning Initiatives – Transit Development Plan

## High Capacity

- Heavy Rail
- Bus Rapid Transit (BRT)
- Rapid Bus

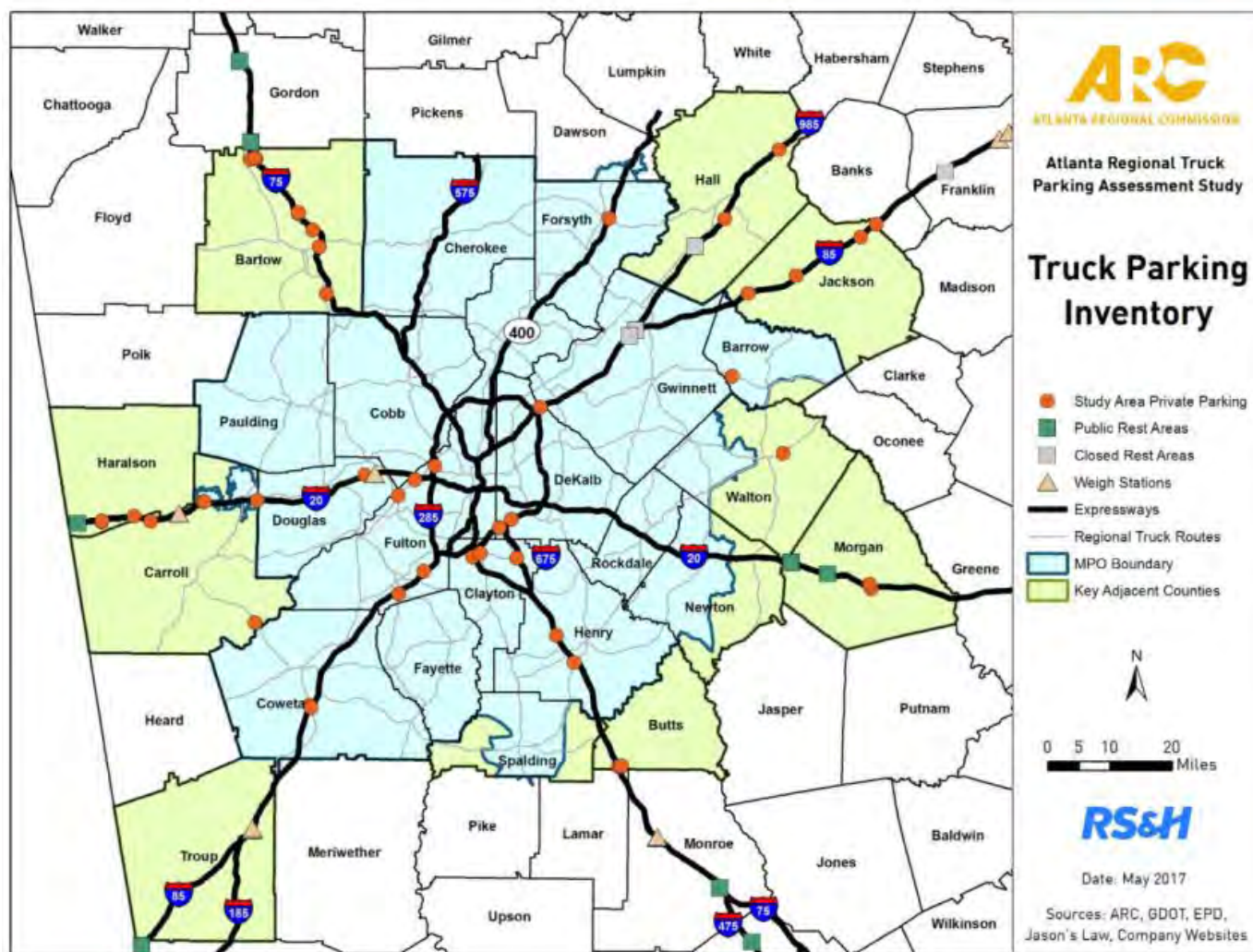
## Commuter and Local Coverage

- Express/Direct Connect
- Van Pool
- Local/Paratransit
- Flex
- Transportation Network Companies





# Planning Initiatives – Truck Parking Study



County	Truck Parking 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
<b>TOTAL</b>	<b>3,561</b>



# Planning Initiatives – Truck Parking Study



- Existing conditions
- Short/long-range needs for expansion
- Recommended policies
- Potential partnerships
- Strategies to improve information

AVAILABLE TRUCK PARKING	
REST AREA	LOW
EXIT 1	8
EXIT 12	20



# Planning Initiatives – I-85 Corridor Study



- Study area from I-285 to I-985
- Gwinnett County and Georgia DOT will each contribute \$5 million
- GDOT will manage the project
- The study will identify potential capacity and safety improvements



# Planning Initiatives – Proposed Airport Master Plan



- First update to the Airport Master Plan since 2006
- Required by federal regulations to receive FAA grants
- Identifies potential future projects and services



# Commission Priorities



Mobility & Access



Communication & Engagement



Safe & Health Community



Strong & Vibrant Local Economy



Smart & Sustainable Government



Livability & Comfort



# Commission Priorities – Communication & Engagement



Citizens Project Selection Committee Open House



Communication &  
Engagement



# Commission Priorities – Communication & Engagement



**Destination2040**

Gwinnett's Comprehensive Transportation Plan



Communication &  
Engagement



# Commission Priorities – Communication & Engagement



- Public Meetings – 18
- Stakeholder Meetings – 5
- Online Surveys Completed – over 12,000
- Phone Survey Responses – 1,000
- Community Events/Park Visits – 55
- Adjacent Communities and Focus Group Meetings – 37
- Bus Tour – 3 routes, 12 stops
- Card Distribution locations – 55





# Commission Priorities – Communication & Engagement



**Korean Delegation**



**Telemundo Interview**





# Commission Priorities – Communication & Engagement



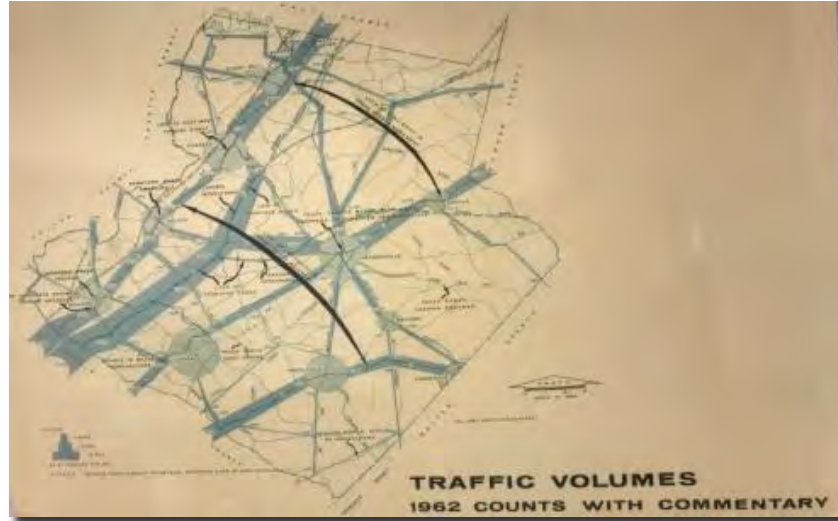
## Gwinnett 101 Citizens Academy



Communication &  
Engagement



# Commission Priorities – Mobility & Access





# Commission Priorities – Mobility & Access



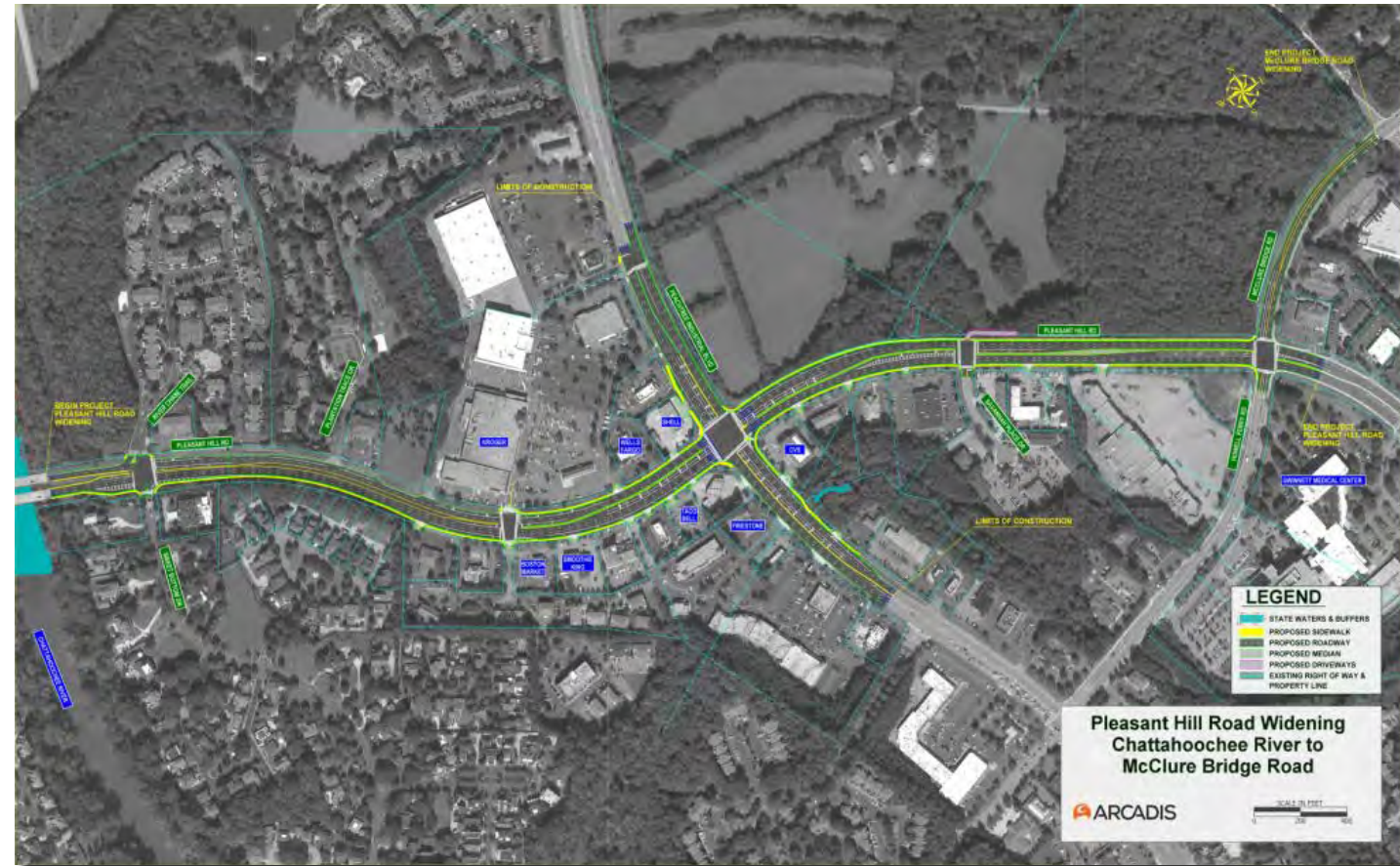
**SR 316 at Harbins Road**





# Commission Priorities – Mobility & Access

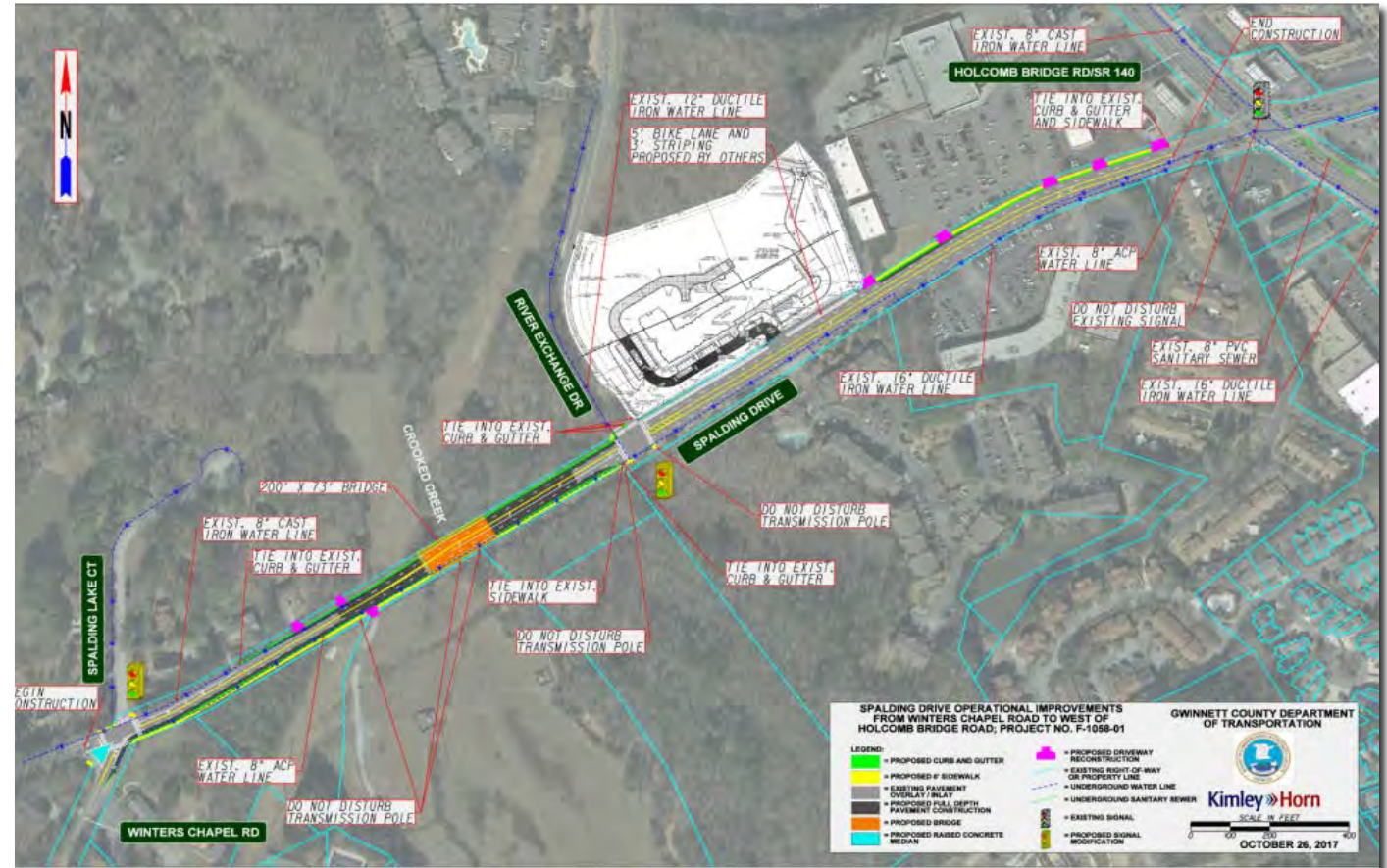
- **Cruse Road**
  - Club Drive to Paden Drive
  - \$8,500,000
- **Hamilton Mill Road**
  - Sardis Church Road to Ivy Mill Rd
  - \$6,500,000
- **Pleasant Hill Road**
  - Chattahoochee River to McClure Bridge Road
  - \$10,000,000





# Commission Priorities – Mobility & Access

- **Spalding Drive**
  - Winters Chapel Road to Holcomb Bridge Road
  - \$9,500,000
- **SR 324 / Gravel Springs Road**
  - SR 124 to Fort Daniel Drive
  - \$5,200,000





# Commission Priorities – Mobility & Access



## Scenic Highway *(US 78 to Sugarloaf Parkway)*

Engineering (FY 2019) –  
\$6 million

ROW / CST (FY 2024 - 2030) –  
\$39 million





# Commission Priorities – Mobility & Access



Program	Projects	Costs
2009 SPLOST	49	\$37 million
2014 SPLOST	58	\$27 million
2017 SPLOST	35	\$30 million
<b>Total</b>	<b>142</b>	<b>\$94 million</b>





# Commission Priorities – Safe & Healthy Community



Roundabouts in Gwinnett County	Count
Existing	9
Under Construction	4
In Design	8
<b>Total</b>	<b>21</b>

**Dogwood Road at Holly Brook Road  
(Brookwood High School)**



Safe & Healthy  
Community



# Commission Priorities – Safe & Healthy Community



**Old Fountain Road at Alcovy River**



Safe & Healthy  
Community



# Commission Priorities – Safe & Healthy Community



## Hurricane Irma Debris Removal





# Commission Priorities – Smart & Sustainable Government



## Recently completed and ongoing federal/state assistance

Project	Amount Awarded
Interchanges and Intersections	\$245.2 million
New Location Roadways	\$14.2 million
Roadway Widenings	\$144.5 million
Pedestrian Safety and Trail Improvements	\$17.5 million
Traffic Management System Improvements	\$11.3 million
Transit Improvements	\$27.8 million
Resurfacing Projects	\$4.4 million
<b>TOTAL</b>	<b>\$464.9 million</b>





# Commission Priorities – Smart & Sustainable Government



**Road Resurfacing**



Smart & Sustainable  
Government



# Commission Priorities – Smart & Sustainable Government



## Advanced Traffic Management System (ATMS) Smart Corridor Technology

- **Georgia Smart Communities Challenge** – Partnership with Georgia Tech to develop connected vehicle technology master plan
- **Peachtree Industrial Boulevard Smart Corridor Pilot Project**



Smart & Sustainable  
Government



# Commission Priorities – Smart & Sustainable Government



## Advanced Traffic Management System (ATMS) Expansion

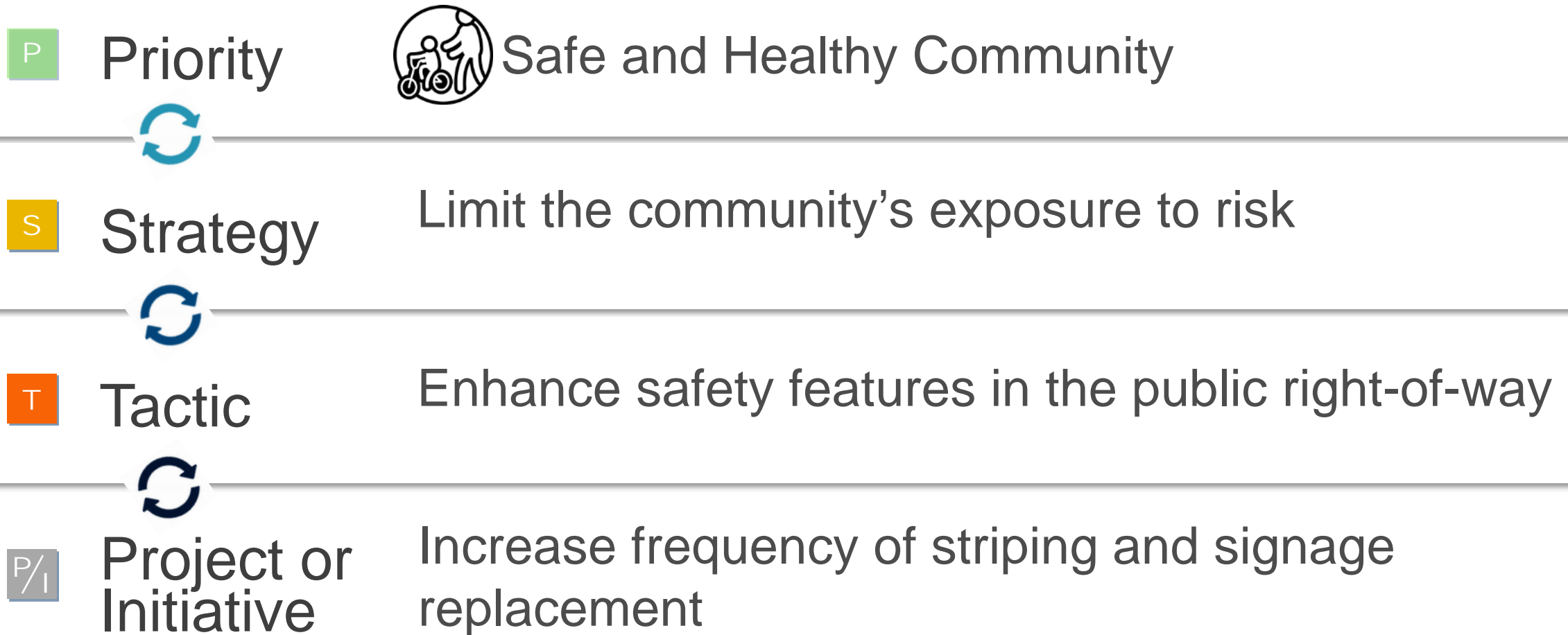
- **Under Construction** – Four Corridors – 30 miles of fiber, 55 cameras and communication with 31 signals
- **2021 Construction** – Six Corridors – 20 miles of fiber, approximately 40 cameras and communication with 20 signals
- **2021 Construction** – Communication with remaining 120 offline traffic signals and camera upgrades to improve video quality





# Decision Package #1

## Striping and Signage





# Decision Package #1

## Striping and Signage



- Add Maintenance Tech III positions to Paint and Thermo teams – \$87,590
- Increase striping budget by \$150,000
- Increase signage budget by \$50,000











Safe & Healthy  
Community



# Decision Package #2

## Traffic Signals Network Positions



 P	Priority	 Mobility and Access
		
 S	Strategy	Improve and maintain the transportation infrastructure
		
 T	Tactic	Increase transportation network capacity
		
 P/I	Project or Initiative	Improve responsiveness to signal outages and other traffic signal system related issues



# Decision Package #2

## Traffic Signals Network Positions



### Add Trades Tech IV position to Advanced Traffic Management System (ATMS) section – \$93,753

- Repair and replace the communications network and cameras (*troubleshooting, equipment replacement, fiber testing*)
- Direct the preventive maintenance program
- Manage fiber locates and the locate contractor (*2,000 requests and 400 field locates per month*)
- Manage ATMS projects and inspect ATMS portions of roadway projects
- Review proposed developments for fiber conflicts





# Decision Package #2

## Traffic Signals Network Positions

### Add Trades Tech III position to Traffic Signals Team A – \$48,168

- Repair and maintain traffic signal infrastructure
- Install signal upgrades
- Replace traffic control switches
- Update advanced traffic management system













# Decision Package #3

## Engineer III (Right of Way / Grants)



 P	Priority	 Mobility & Access
		
 S	Strategy	Improve and maintain the transportation infrastructure
		
 T	Tactic	Improve service delivery
		
 P/I	Project or Initiative	Streamline right of way process and maintain compliance with grant regulatory requirements



# Decision Package #3

## Engineer III (Right of Way / Grants)



**Add SPLOST funded Engineer III position to Program Delivery group – \$81,544**

### **Right of way responsibilities**

- Manage over 200 parcels in acquisition at any given time
- Coordinate right of way pre-acquisition functions including plan preparation, plan review and appraisal process
- Track parcels through negotiations and closing
- Respond to property owner concerns





# Decision Package #3

## Engineer III (Right of Way / Grants)



### **Manage grants responsibilities required by various federal and state agencies**









- Federal Highway Administration
- Federal Transit Administration
- Federal Aviation Administration
- US Department of Fish and Wildlife
- US Army Corps of Engineers
- State Historic Preservation Office
- Georgia Environmental Protection Division
- Georgia Soil and Water Conservation Commission
- Georgia Department of Transportation





# Decision Package #4 – Road Services (Hauling and Concrete Repair)



 P	Priority	 Mobility and Access
		
 S	Strategy	Improve and maintain the transportation infrastructure
		
 T	Tactic	Maintain and Enhance Gwinnett County as a preferred place to live and do business
		
 P/I	Project or Initiative	Expedite debris removal and material placement in road ROW. Increase curb and sidewalk repairs.



# Decision Package #4 – Road Services (Hauling and Concrete Repair)

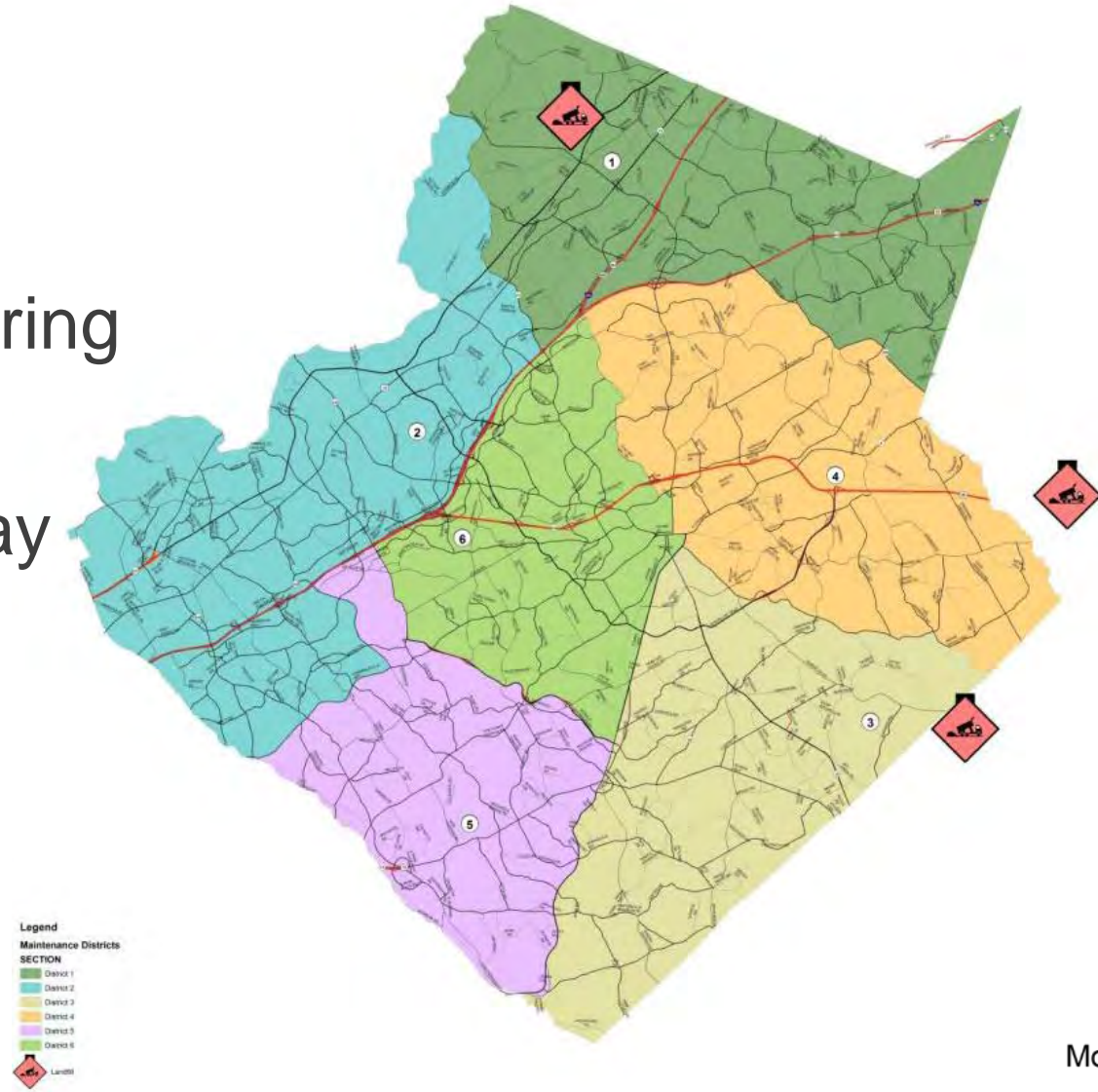
- Increase concrete repair contract budget by \$250,000
- Funding needed to address increased mileage of damaged and aging sidewalk and curb and gutter





# Decision Package #4 – Road Services (Hauling and Concrete Repair)

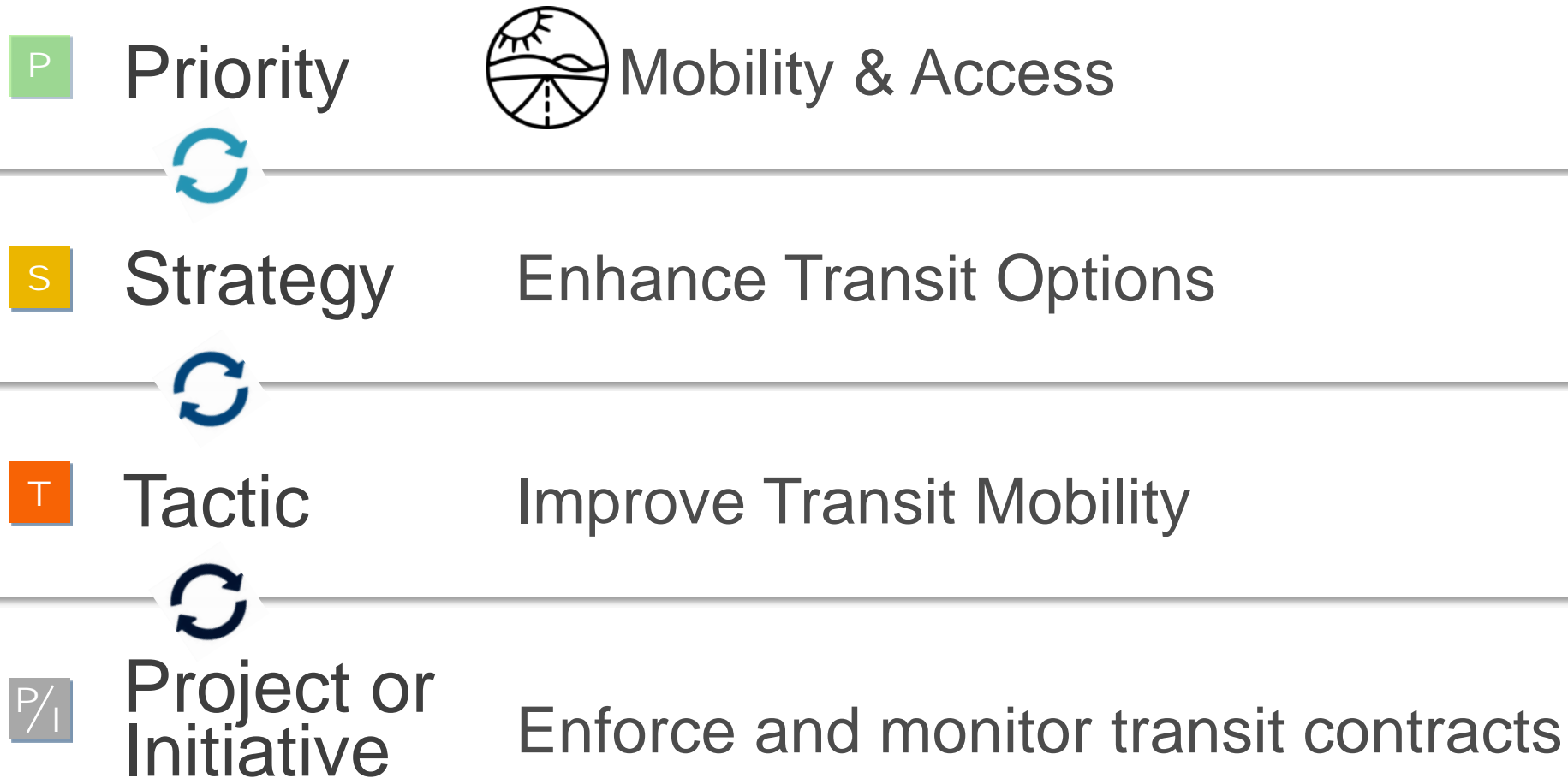
- Establish hauling contract budget – \$150,000
- Expedite debris removal during emergency response
- Haul materials for day-to-day operations (*right of way clearing, fill placement and waste disposal*)





# Decision Package #5

## Transit Contracts Manager





# Decision Package #5

## Transit Contracts Manager



### Add Contracts Manager position to Transit Division – \$100,356

- Supervise staff and coordinate with transit operator to ensure compliance with contract to meet the Gwinnett standard
- Oversee implementation of investments proposed in the **Connect Gwinnett Transit Development Plan**
- Coordinate scope of work for capital projects













# Decision Package #6

## Airport Operations Manager



 P	Priority	 Mobility and Access
		
 S	Strategy	Improve and maintain the transportation infrastructure
		
 T	Tactic	Maintain and enhance Gwinnett County as a preferred place to live and do business
		
 P/I	Project or Initiative	Facilitate improvements to Gwinnett County Airport infrastructure to better serve existing and prospective tenants



# Decision Package #6

## Airport Operations Manager

### Add Operations Manager to Airport Division – \$76,904

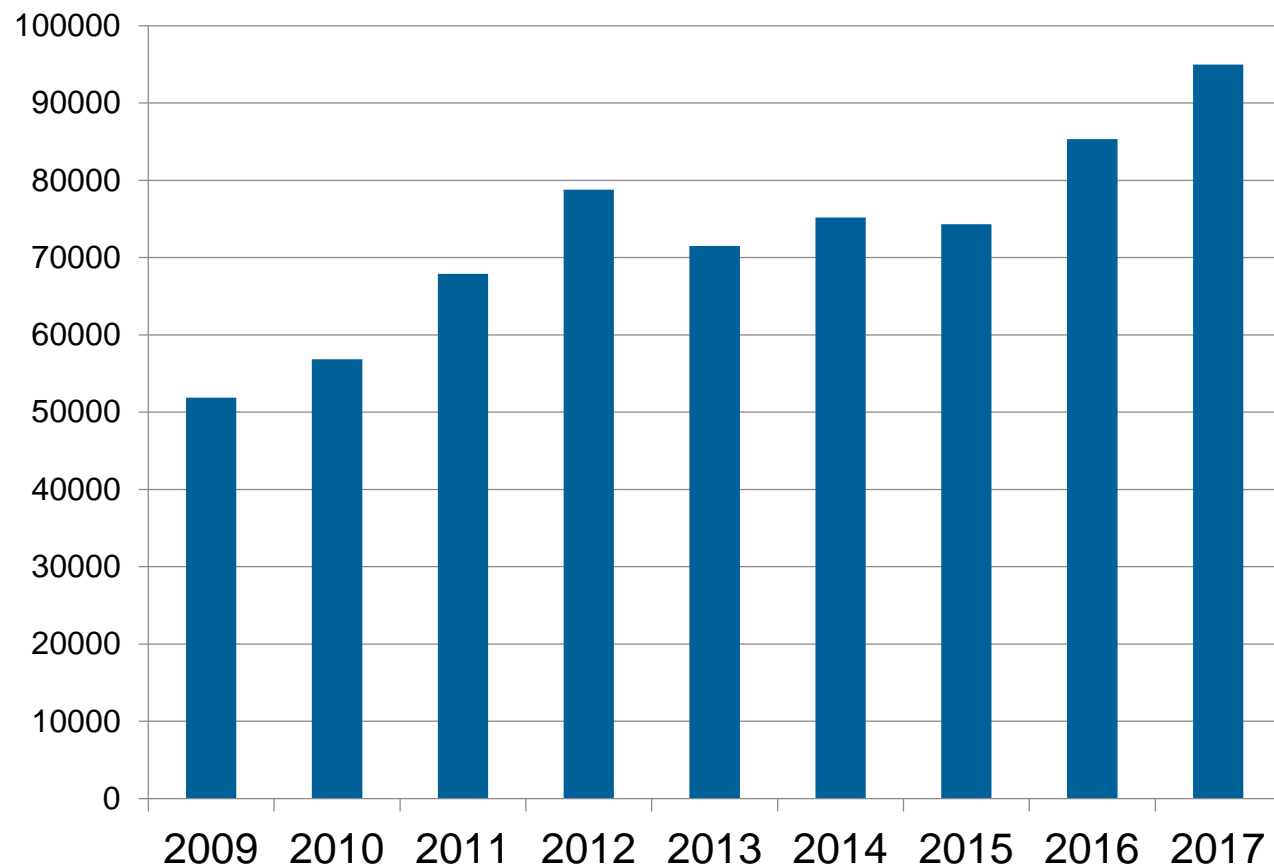
- Manage 24 master leases with numerous subtenants
- Manage upcoming project which has potential to add multiple new corporate hangars
- Lease and maintain numerous Aircraft T-Hangers
- Lease and maintain 83 Aircraft Tie Down Spaces





# Decision Package #6

## Airport Operations Manager



Annual Airport Take-offs and Landings













# Decision Package #7

## Asset Manager



 P	Priority	 Smart and Sustainable Government
		
 S	Strategy	Establish and maintain the Gwinnett County standard
		
 T	Tactic	Ensure viability and longevity of Gwinnett County assets
		
 P/I	Project or Initiative	Evaluate condition of and develop maintenance schedule for transportation infrastructure



# Decision Package #7

## Asset Manager



### Add Asset Manager to Finance Division – \$69,180

- Manage DOT asset condition and replacement requirements
  - 2,600 centerline miles of roadway
  - 180 bridges and bridge culverts
  - 20,000 traffic control signs
  - 2,500 miles of sidewalk
  - 721 traffic signals
  - 230 miles of fiber optic cable
  - 265 Closed Circuit Television cameras
  - 220 traffic control flasher/beacon locations
- Serve as fleet liaison
- Perform capital asset function





# Presenting the Numbers



Fund	2018 Adopted	Changes to Base	Decision Packages	2019 Proposed Operating
General	\$21,311,135	\$1,043,323	\$980,235	\$23,334,693
Transit	\$14,382,290	\$3,022,813	\$100,356	\$17,505,459
Airport	\$1,147,188	\$1,166,940	\$76,904	\$2,391,032
Street Lighting	\$7,543,825	\$9,048	-	\$7,552,873
Speed Hump	\$161,783	-\$1,561	-	\$160,222
Total	\$44,546,221	\$5,240,563	\$1,157,495	\$50,944,279



# Five-Year Plan



**Secure additional funding for major road projects identified in Comprehensive Transportation Plan including:**

- Sugarloaf Parkway Extension
- I-85 improvements from I-285 to I-985
- Killian Hill Road widening
- SR 124 / Braselton Highway widening
- Crossings/Interchanges on I-85 and SR 316
- Sugarloaf Parkway widening
- McGinnis Ferry Road widening



# Five-Year Plan



## Implement technology in transportation systems

- Further evaluate and optimize existing system and make structural improvements
- Implement **Peachtree Industrial Boulevard Smart Corridor Pilot Project** and pursue additional smart corridors
- Assess need and locations for emergency vehicle signal pre-emption and transit vehicle signal priority
- Determine areas where additional traffic responsive technology would improve efficiency



# Five-Year Plan



## Address personnel needs in key areas

- Signal Timing Engineer
- Trails and Pedestrian Projects Manager
- Additional Quality Control Inspector
- Shoulder Crew Maintenance Tech III
- ATMS Technology Administrator
- Retention of field personnel



# Long-Term Plan



## **Continue implementation of planning initiatives**

- Comprehensive Transportation Plan
- Traffic Management System Master Plan
- Countywide Trails Master Plan
- Comprehensive Transit Development Plan
- Truck Parking Study
- Airport Master Plan





# Questions