



Gwinnett
Transportation

2020 Business Plan

August 2019



Today's Agenda



Mission and Department Overview



Planning Initiatives



Commission Priorities



2020 Decision Packages



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

Traffic Engineering,
Operations &
Maintenance

Intermodal



Pre-
construction



Construction



Operations
and
Maintenance



Traffic
Engineering



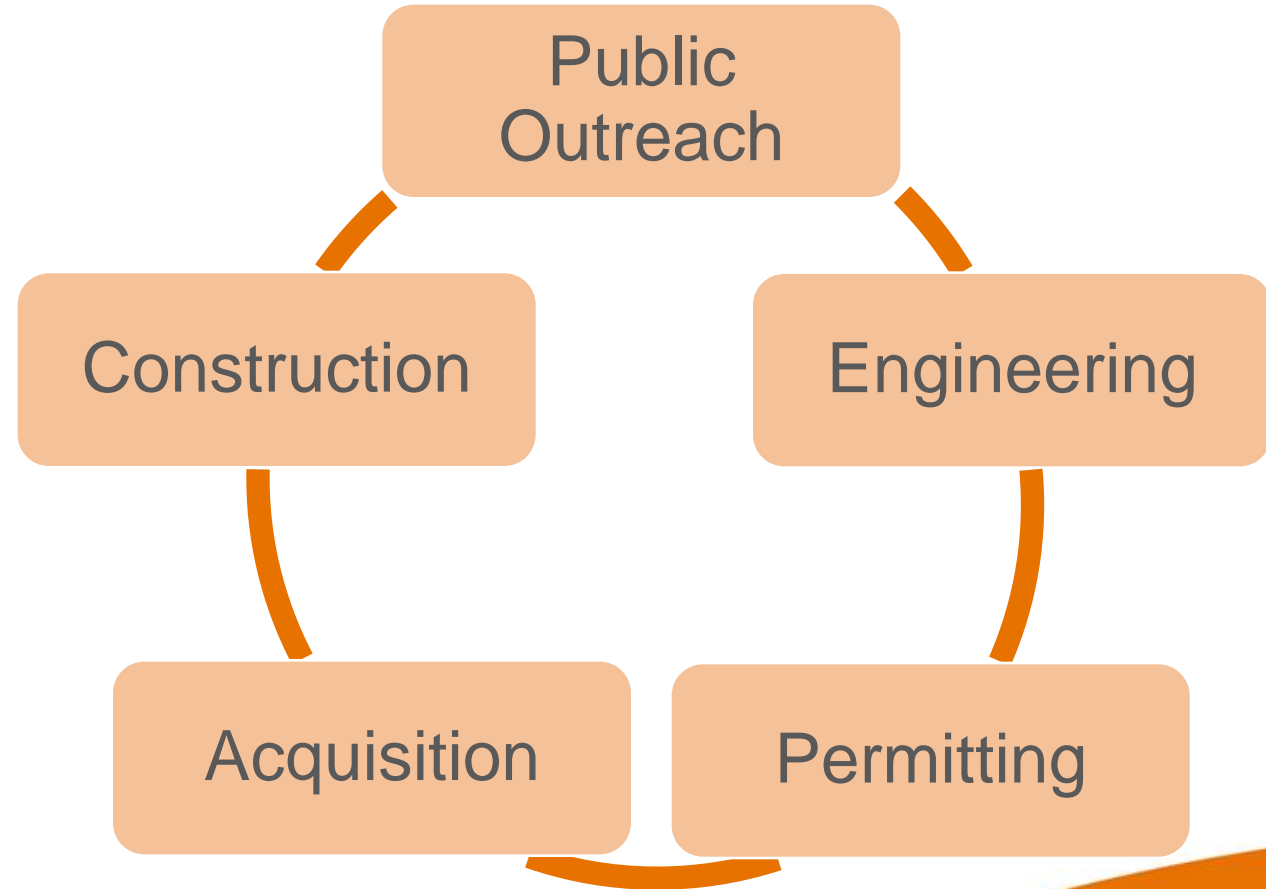
Transit



Aviation

Program Delivery

- Special Purpose Local Option Sales Tax (SPLOST)
- More than \$2.7 billion in SPLOST projects since 1986



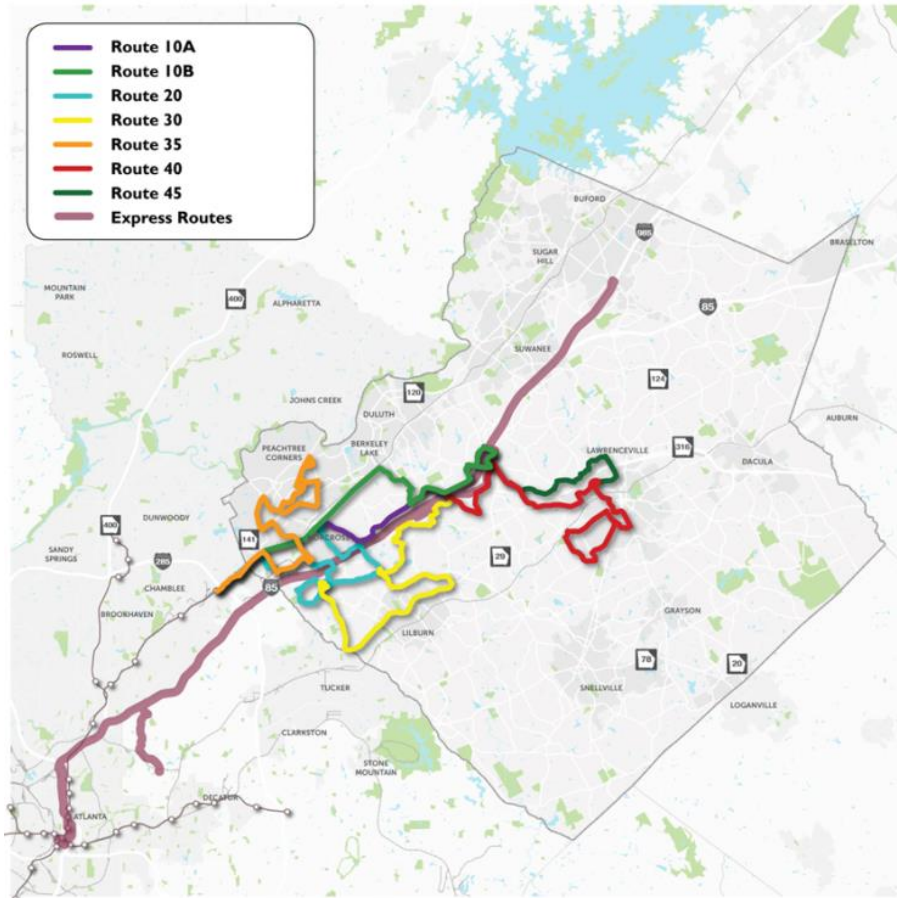
Traffic Engineering, Operations, & Maintenance



- 2,650+ centerline miles of roadway
- 180+ bridges and bridge culverts
- 100,000+ signs
- 2,500+ miles of sidewalk

- 725+ traffic signals
- 230+ miles of fiber optic cable
- 260+ Closed Circuit Television cameras
- 200+ traffic control flasher/beacon locations

Transit



Express Monday – Friday
AM/PM Peak
46 trips during am peak
55 trips during pm peak
5 routes from park and ride lots to downtown and midtown Atlanta and Emory/CDC

Local Monday – Saturday
29 buses during daily peak
7 routes – primarily serving western and central parts of the county connecting Lawrenceville, Duluth, Lilburn and Norcross to MARTA Doraville Station

Paratransit Monday – Saturday
7 transport vehicles during daily peak
Mandated by Americans with Disabilities Act (ADA) complementary service for persons unable to access bus stops or ride independently within $\frac{3}{4}$ of a mile of the 7 local routes

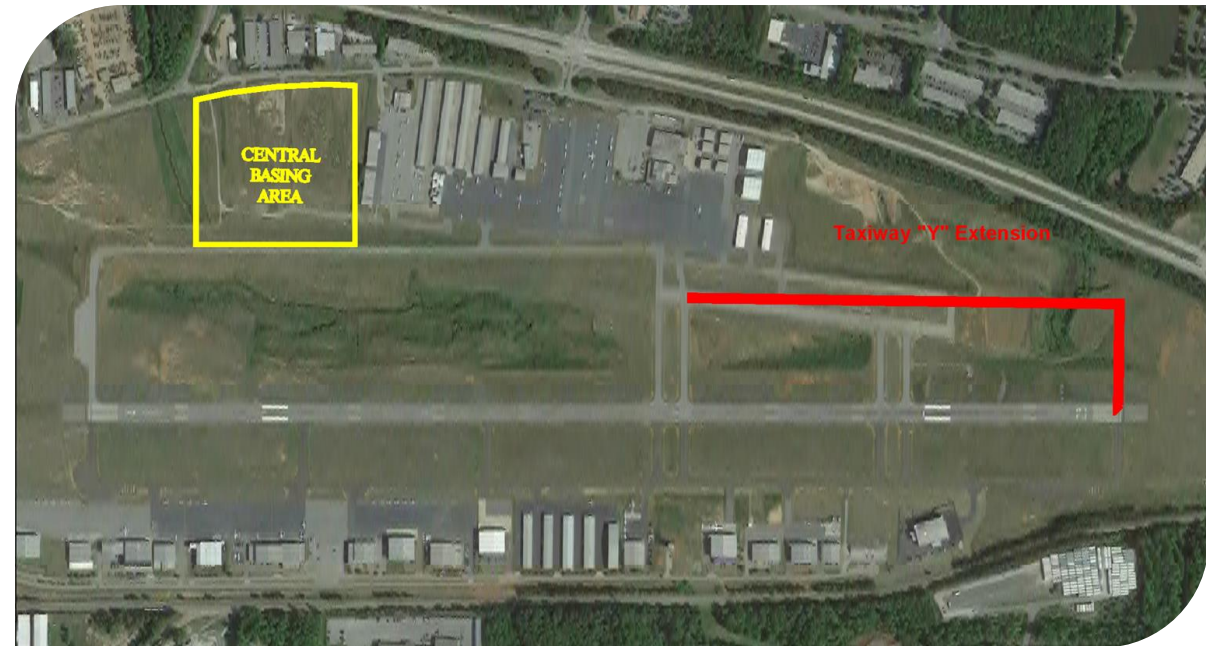
Federal and State Grants Fare Box Revenue





Airport

- 98,498 airport operations (take-offs and landings) in 2018
- Third busiest airport in Georgia
- Base to approximately 300 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

Connected Vehicle Technology Master Plan – Complete September 2019

Truck Parking Study – Complete early 2020

I-85 Corridor Study – Underway

Bus Rapid Transit Corridor Study – Begin late 2019

Airport Master Plan Update – Begin late 2019



Commission Priorities



Mobility & Access



Communication &
Engagement



Livability & Comfort



Safe & Healthy
Community



Smart & Sustainable
Government

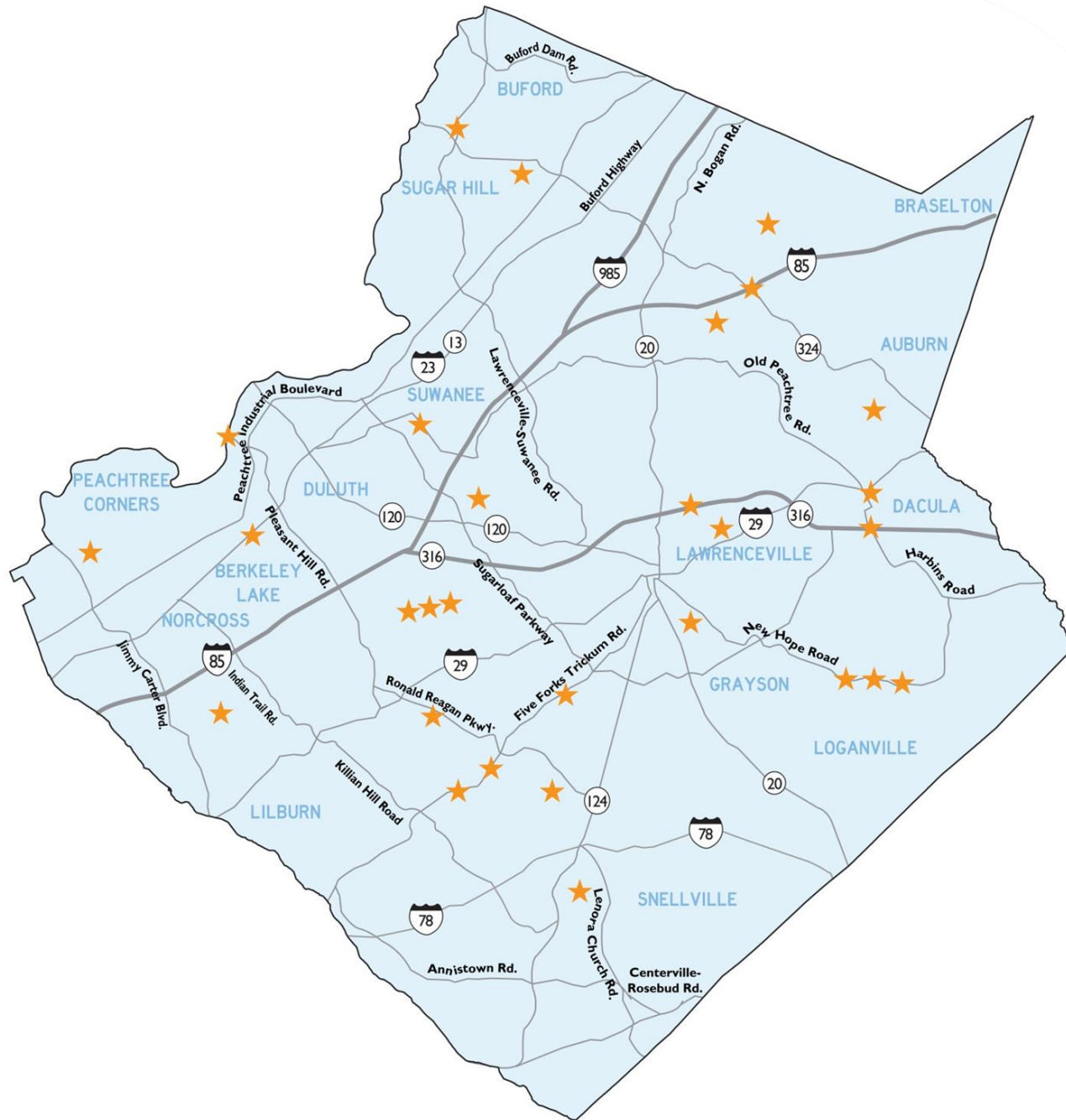


Strong & Vibrant
Local Economy



Mobility & Access

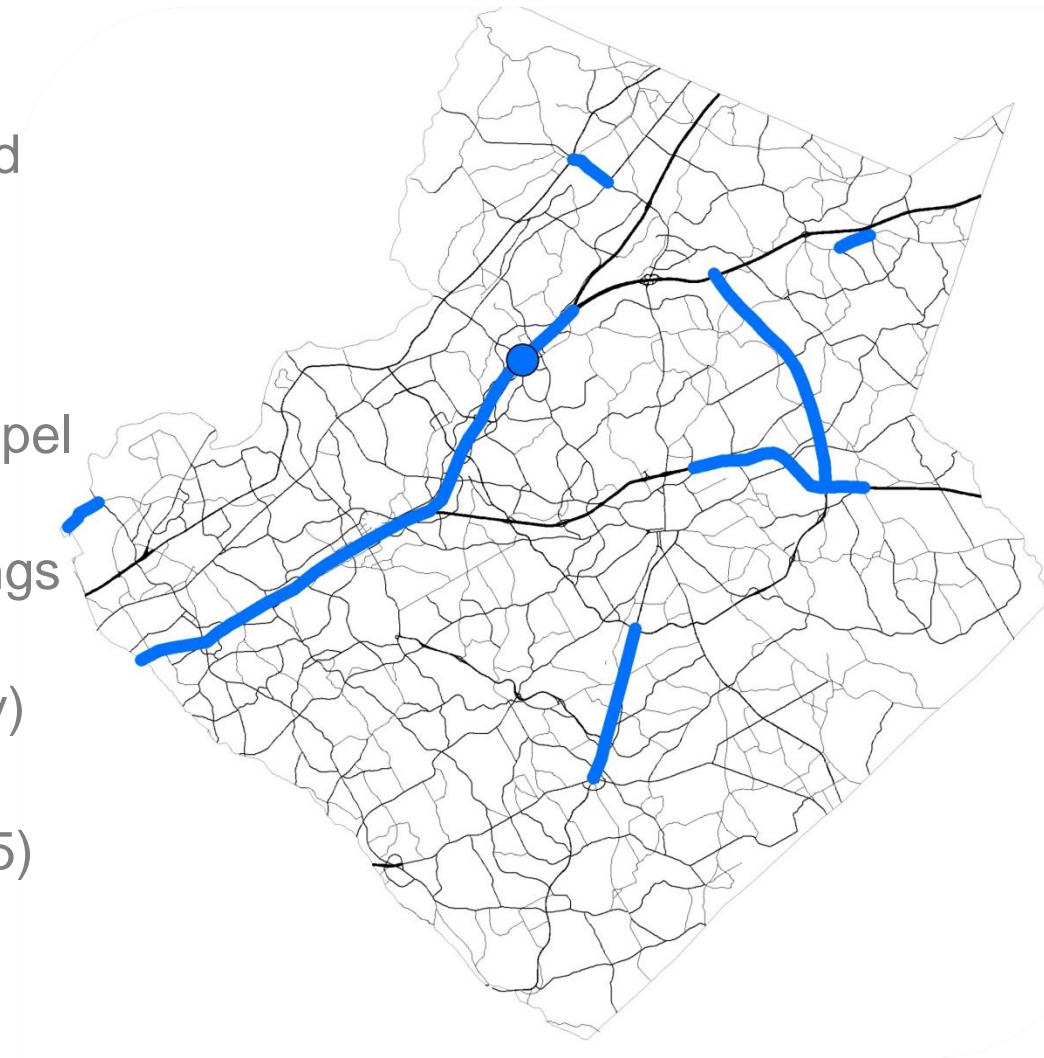
- Projects currently under construction
- Over \$160 million in construction contracts



Mobility & Access

Major Road Improvements

- Buford Drive (Peachtree Industrial Boulevard to Buford Highway)
- I-85 future corridor improvements
- McGinnis Ferry Road Interchange
- Spalding Drive (Holcomb Bridge Road to Winters Chapel Road)
- SR 124/Braselton Highway (Pine Road to Spout Springs Road)
- SR 124/Scenic Highway (US 78 to Sugarloaf Parkway)
- SR 316 (SR 20 to Harbins Road)
- Sugarloaf Parkway Extension Phase II (SR 316 to I-85)

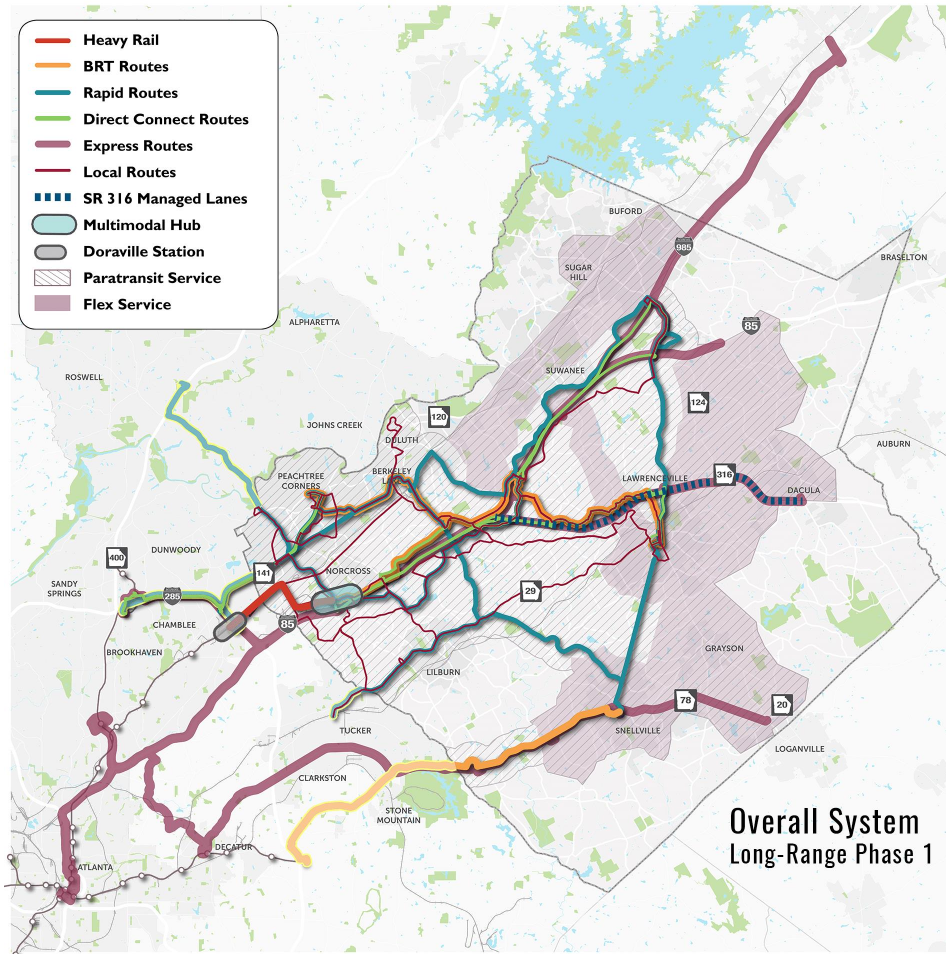


Mobility & Access





Mobility & Access



Transit Plan Investments

Proposed Long-Range System:

- Rail in South I-85 area with new multimodal hub
- 3 Bus Rapid Transit routes (50 miles)
- 8 Arterial Rapid Transit corridors (110 miles)
- 9 Express routes (250 miles) from 11 Park-and-Ride lots
- 3 Direct Connect routes to new multimodal hub
- 12 Local routes (160 miles)
- 6 Microtransit service areas
- Increase frequency and extended time of day service
- Last mile connections
- Vanpools



Mobility & Access

Implement Immediate Transit Needs

- Improve local service
- Microtransit service
- Direct Connect service
- Additional Express service with new park and ride lots



Communication & Engagement





Safe & Healthy Community

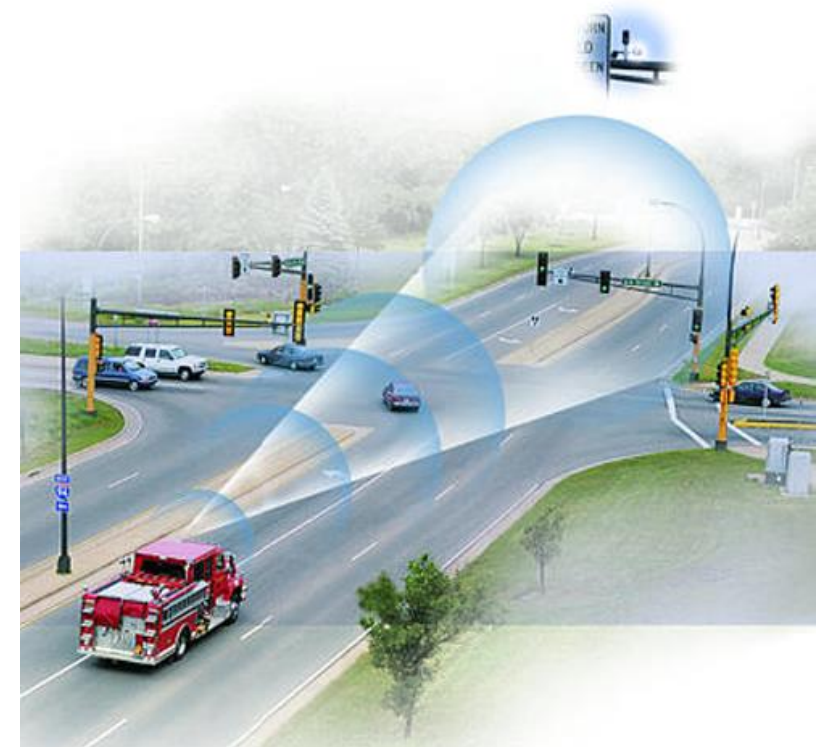




Smart & Sustainable Government

Advanced Traffic Management System (ATMS) Smart Corridor Technology

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





Strong & Vibrant Local Economy













2020 Decision Packages

- Signal and Communications System Enhancement – \$673,174
- Roadway and Right of Way Preservation – \$849,441
- Transit Service Improvements – \$2,267,942
- Transit & Traffic Engineering Technology Manager – \$103,054



Decision Package_001

 Priority	 Mobility and Access
	
 Strategy	Improve and maintain the transportation infrastructure
	
 Tactic	Improve Service Delivery
	
 Project or Initiative	Signal and Communications System Enhancement – \$673,174









Signal and Communications System Enhancement

- Two Trades Technicians to perform more traffic signal maintenance and to upgrade overhead street name signs
- Engineer III and Engineer I for analysis and optimization of traffic signal systems
- Engineer III to support the County's connected vehicle technology
- Increase to Professional Services for additional traffic engineering projects





Decision Package_002

-  Priority  Smart & Sustainable Government
-  Strategy Improve and maintain the transportation infrastructure
-  Tactic Ensure viability and longevity of Gwinnett County assets
-  Project or Initiative Roadway and Right of Way preservation – \$849,441

Roadway and Right of Way Preservation

- Asphalt patching contract
- Roadway reclamation on collectors and arterials
- Longer useful life of roadway between full resurfacing projects
- Construction Manager position to manage contract
- Position would also administer road cut process





Roadway and Right of Way Preservation



- Currently one position manages all sidewalk and curb repairs
- Since 2016, DOT has received over 1,350 service requests for concrete repairs
- Establish Construction Manager position to coordinate concrete curb and sidewalk repair activities
- Divide work between residential and collector/arterial roads
- Inspect quick-fix concrete construction











Roadway and Right of Way Preservation

- Operations & Maintenance received more than 3,700 service requests in 2018
- Three Maintenance Tech positions to address areas with higher rate of service requests
- Areas with more multi-lane roads and higher traffic volumes
- Areas with older infrastructure





Decision Package_003

	Priority		Mobility and Access
			
	Strategy		Enhance Transit Options
			
	Tactic		Improve Transit Mobility
			
	Project or Initiative		Transit Service Improvements – \$2,267,942



Transit Service Improvements

- Operational funds for additional service
 - Restructure local service to improve efficiency
 - Increase frequency of local service for four routes (80 percent federal funding for three years)
 - Implement Snellville microtransit zone
 - Implement direct connect service
 - Conduct second microtransit pilot project





Transit Service Improvements

- Project Manager to implement short range and plan for potential long-range Connect Gwinnett transit projects
 - Indian Trail and I-985 Park and Ride Lot rehabilitation projects
 - SR 316 Corridor Park and Ride Lots
 - Upcoming road improvement project coordination with proposed transit capital improvements
 - Gwinnett Place Transit Center improvements
- Program Analyst to manage reliability of transit system



Decision Package 004

-  Priority  Smart & Sustainable Government

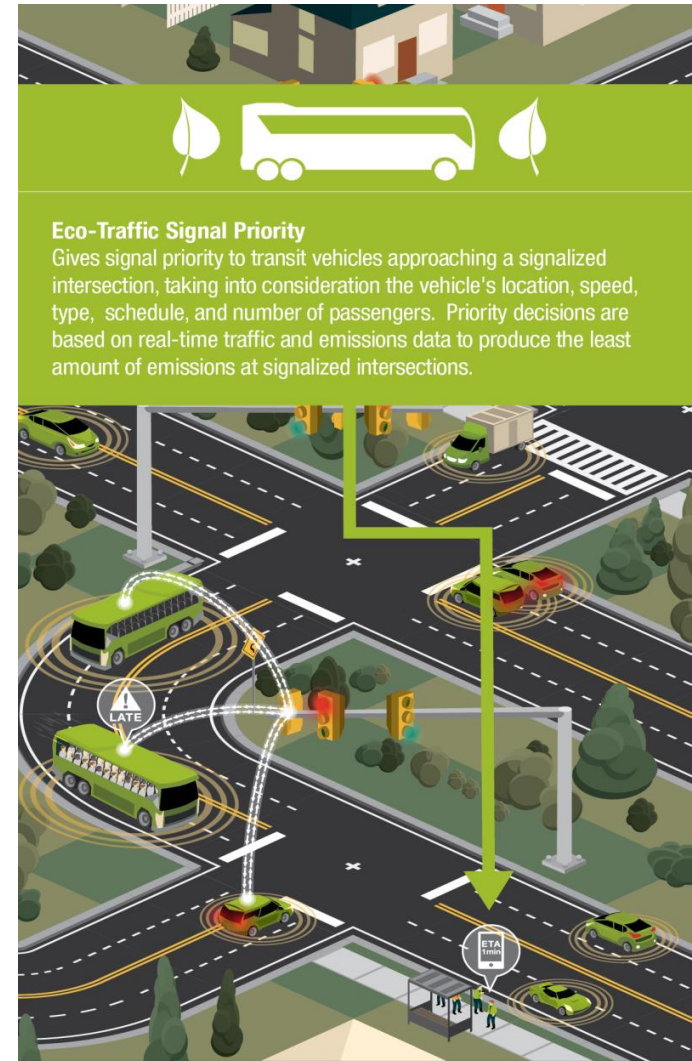
-  Strategy Lead through Innovation

-  Tactic Advance use of technology to improve efficiency

-  Project or Initiative Transit & Traffic Engineering Technology Manager – \$849,441

Transit & Traffic Engineering Technology Manager

- Coordinate the use of technology for both connected traffic corridors and transit operations
- Support transit technology including on-board camera, automatic vehicle locator, mobile application, and farebox systems
- Support Traffic Control Center operations
- Assist with the implementation of the Connected Vehicle Master Plan and the Traffic Management System Master Plan





Presenting the Numbers

Fund	2019 Adopted	Changes to Base	Decision Packages	2020 Proposed Operating
General	\$23,620,795	\$1,688,156	\$1,625,669	\$26,934,620
Transit	\$17,386,029	-\$948,312	\$2,267,942	\$18,705,659
Airport	\$2,400,059	-\$1,009,194	-	\$1,390,865
Street Lighting	\$7,703,702	-\$122,660	-	\$7,581,042
Speed Hump	\$160,222	\$275,475	-	\$435,697
Total	\$51,270,807	-\$116,535	\$3,893,611	\$55,047,883



Questions