



Intermodal Programs Update

Aviation • Rail • Transit • Waterways

Presented to
Intermodal Committee
State Board of Transportation
December 7, 2016



Savannah Harbor Expansion Project Update

Division of Intermodal - Waterways Programs

Presentation to the State Transportation Board – Intermodal Committee

Trey Daniell
Waterways Program Manager
December 7, 2016





The Role of DOT in Waterways Transportation

- DOT has authority under OCGA 32-2-2(a)(18)
- Partner with the US Army Corps of Engineers in navigational projects
- Local Sponsor for Savannah and Brunswick Harbors, and the Atlantic Intracoastal Waterway
- Provide real estate for disposal of dredged material and any harbor improvements
- Provide 35% of cost of new construction; Corps provides remaining 65%

Brunswick Harbor - Colonel's Island Terminal

Third Busiest Port in the U.S. for total Roll On/ Roll Off (RO/RO) Cargo

Second Busiest for RO/RO Imports.

Largest Deepwater Agri-Bulk operation in the US South Atlantic



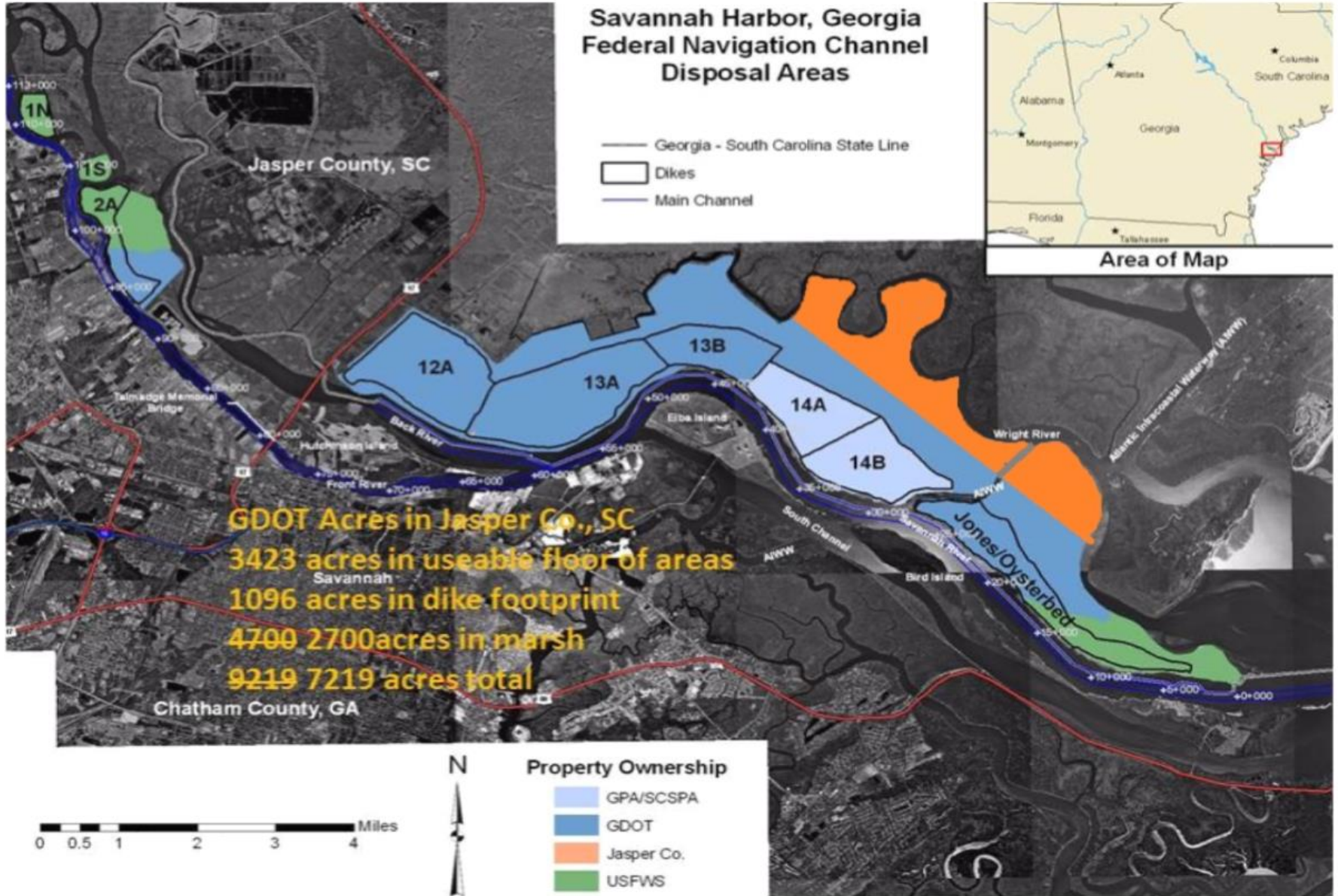


Savannah Harbor, Georgia Federal Navigation Channel Disposal Areas

- Georgia - South Carolina State Line
- Dikes
- Main Channel



Area of Map



GDOT Acres in Jasper Co., SC
3423 acres in useable floor of areas
1096 acres in dike footprint
4790 2700 acres in marsh
9219 7219 acres total

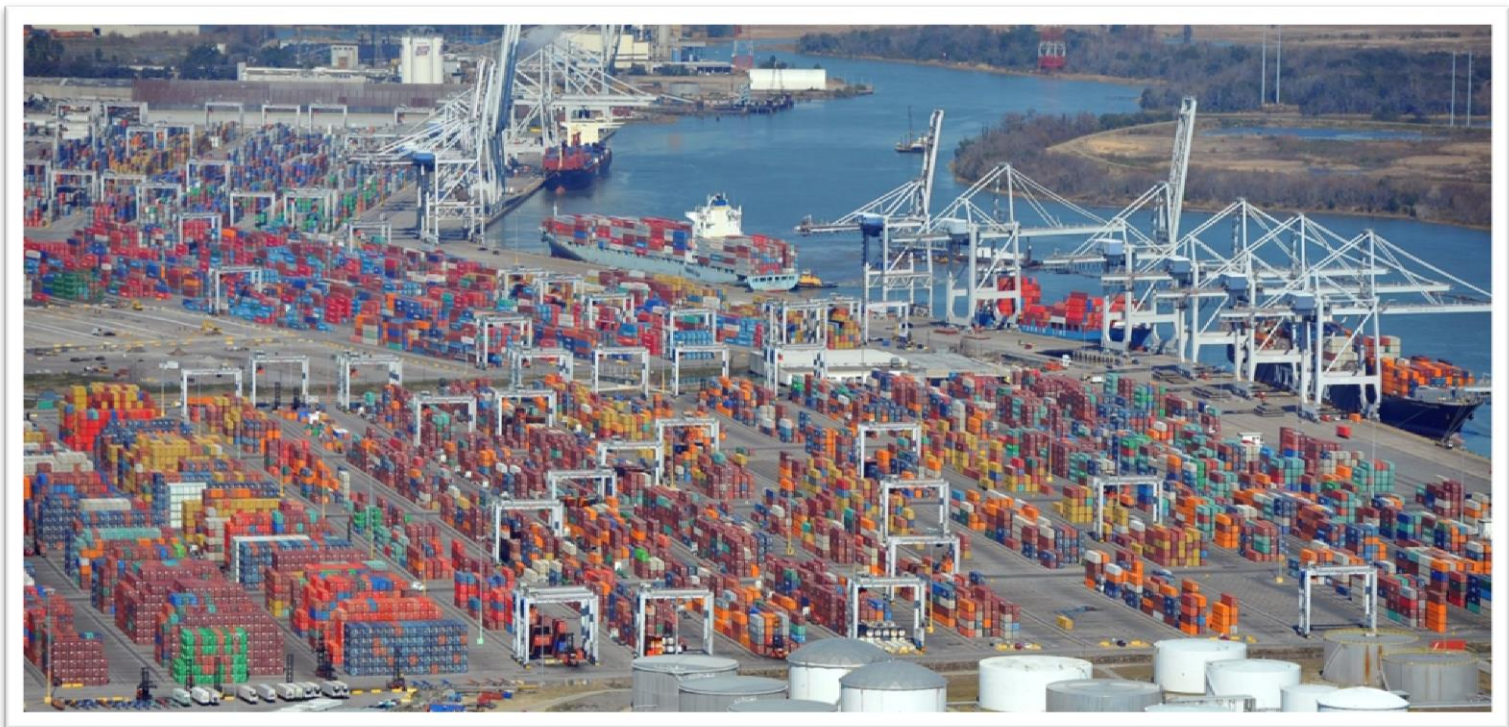
Property Ownership

- GPA/SCSPA
- GDOT
- Jasper Co.
- USFWS



The Port of Savannah

- 4th largest container port in the United States
- Largest single terminal operation in North America
- Fastest growing container port in the Nation over the last 10 years
- FY 2015 was a Record Setting Year moving 29 million tons of cargo and 3.7 million TEU's





Savannah Harbor Expansion Project

- **Deepen Savannah Harbor from 42' to 47'**
- **Benefit to Cost Ratio of 5.5 to 1**
- **\$174 M in annual net benefits from gained transportation efficiencies**
- **Estimated Cost \$706 M**
- **State of Georgia commitment \$266 M**

The SHEP Partners and their Roles

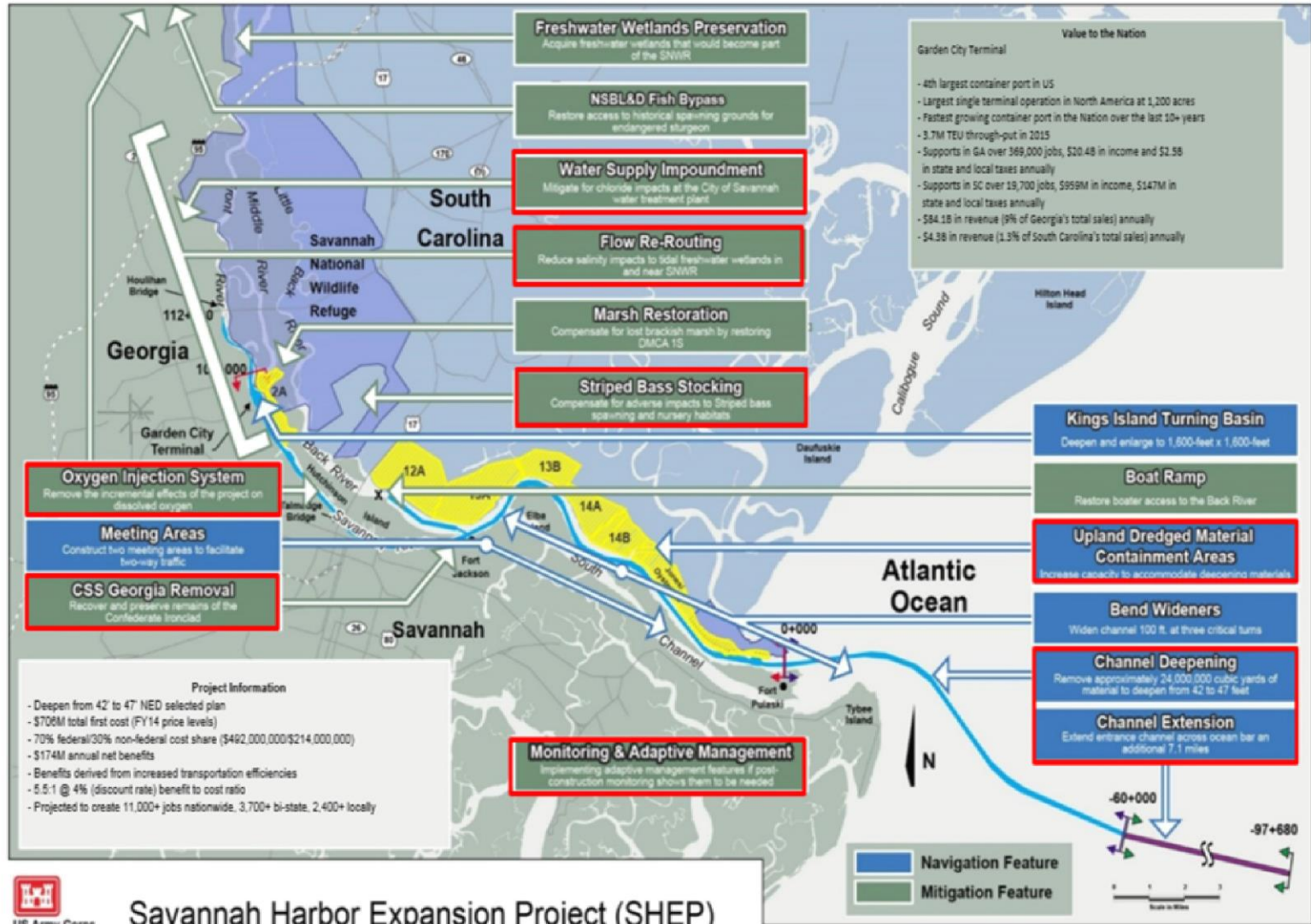
- U.S. Army Corps of Engineers is the lead federal agency for this project. All Contracts are Designed, Let, and Administered by USACE



US Army Corps of Engineers



- Georgia Ports Authority and Georgia Department of Transportation are the non-federal co-Sponsors



Value to the Nation

Garden City Terminal

- 4th largest container port in US
- Largest single terminal operation in North America at 1,200 acres
- Fastest growing container port in the Nation over the last 10+ years
- 3.7M TEU through-put in 2015
- Supports in GA over 369,000 jobs, \$20.4B in income and \$2.5B in state and local taxes annually
- Supports in SC over 19,700 jobs, \$959M in income, \$147M in state and local taxes annually
- \$84.1B in revenue (9% of Georgia's total sales) annually
- \$4.3B in revenue (1.3% of South Carolina's total sales) annually

Oxygen Injection System
Remove the incremental effects of the project on dissolved oxygen

Meeting Areas
Construct two meeting areas to facilitate two-way traffic

CSS Georgia Removal
Recover and preserve remains of the Confederate ironclad

Project Information

- Deepen from 42' to 47' NED selected plan
- \$706M total first cost (FY14 price levels)
- 70% federal/30% non-federal cost share (\$492,000,000/\$214,000,000)
- \$174M annual net benefits
- Benefits derived from increased transportation efficiencies
- 5.5:1 @ 4% (discount rate) benefit to cost ratio
- Projected to create 11,000+ jobs nationwide, 3,700+ bi-state, 2,400+ locally

Monitoring & Adaptive Management
Implementing adaptive management features if post-construction monitoring shows them to be needed

Kings Island Turning Basin
Deepen and enlarge to 1,800-foot x 1,800-foot

Boat Ramp
Restore boater access to the Back River

Upland Dredged Material Containment Areas
Increase capacity to accommodate discharging materials

Bend Wideners
Widen channel 100 ft. at three critical turns

Channel Deepening
Remove approximately 24,000,000 cubic yards of material to deepen from 42 to 47 feet

Channel Extension
Extend entrance channel across ocean bar an additional 7.1 miles



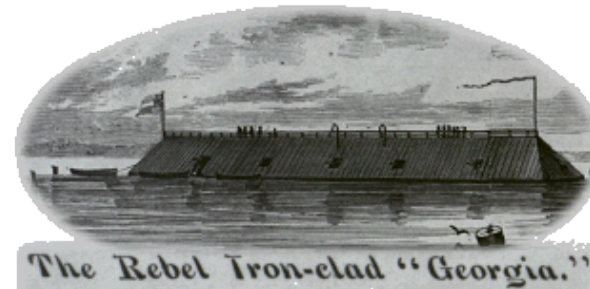
Savannah Harbor Expansion Project (SHEP)

1st SHEP Project under Construction – Recovery of the CSS Georgia



A Kickoff Ceremony was held at Old Fort Jackson on January 25, 2015.

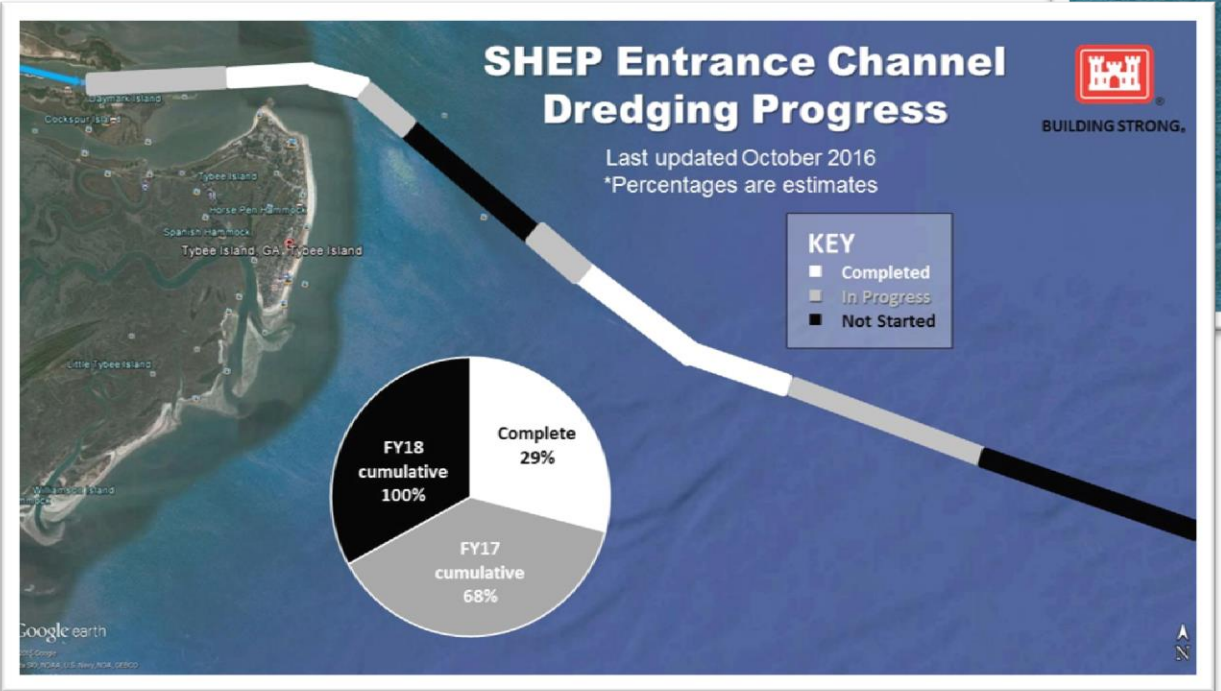
With the firing of the Cannon construction of the Savannah Harbor Expansion Project was officially underway.



- 29,716 total artifacts recovered
- 13,019 artifacts shipped to Texas A & M University
- 241 pieces of ordnance recovered
- 5 cannons recovered
- 0 Accidents

2nd Project Under Construction - Entrance Channel Dredging (\$134M)

- Contract Award to Great Lakes Dredge and Dock on March 5, 2015
- Deepen 11.4 Miles of Channel to -49 ft.; Extend Entrance Channel by 7.2 miles
- 4.1 M Cubic Yards (CY) of material have been removed from the channel (approximately 31% of volumes included in the contract specifications)



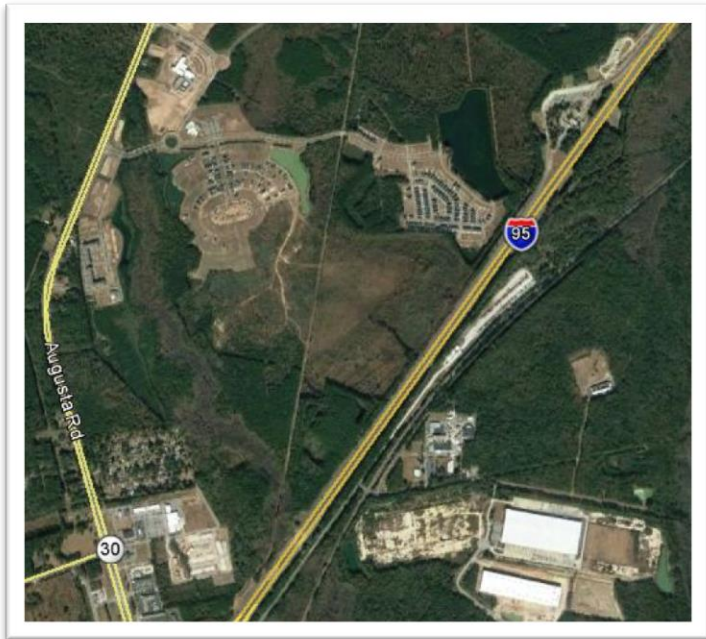
3rd Project Under Construction - Dissolved Oxygen Injection System (\$99.6M)

- SPEECE Cones will pump oxygen into the Savannah River to replace the oxygen in the river lost to SHEP
- Critical Path Feature** - must pass testing prior to Inner Harbor Dredging
- Construction began October 2015
- 13% Complete



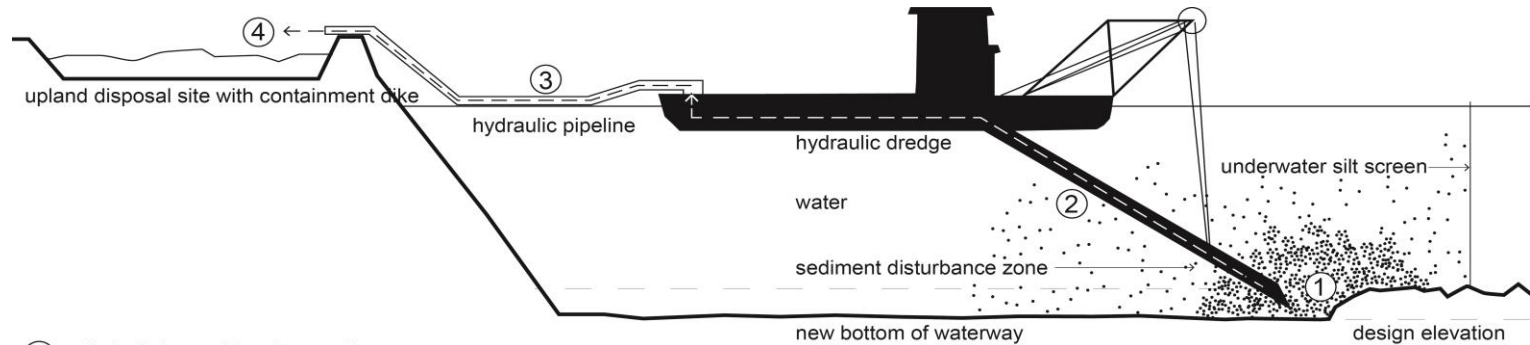
4th Project Under Construction - Raw Water Storage Impoundment (\$40.3M)

- The City of Savannah pulls Domestic and Industrial water directly from Abercorn Creek
- During periods of low flow and high salinity levels, water will be drawn from the Impoundment Area
- Project was awarded to Thalle Construction Company on December 11, 2015
- Project is 37% Complete



5th Project Under Construction - Area 14A Dike Raising (\$6.5M)

- Contract was awarded to Herve Cody on April 8, 2013
- 29% complete



- ① - dislodging of in-situ sediment
- ② - raising of dredged material to the surface
- ③ - horizontal transport
- ④ - placement or further treatment

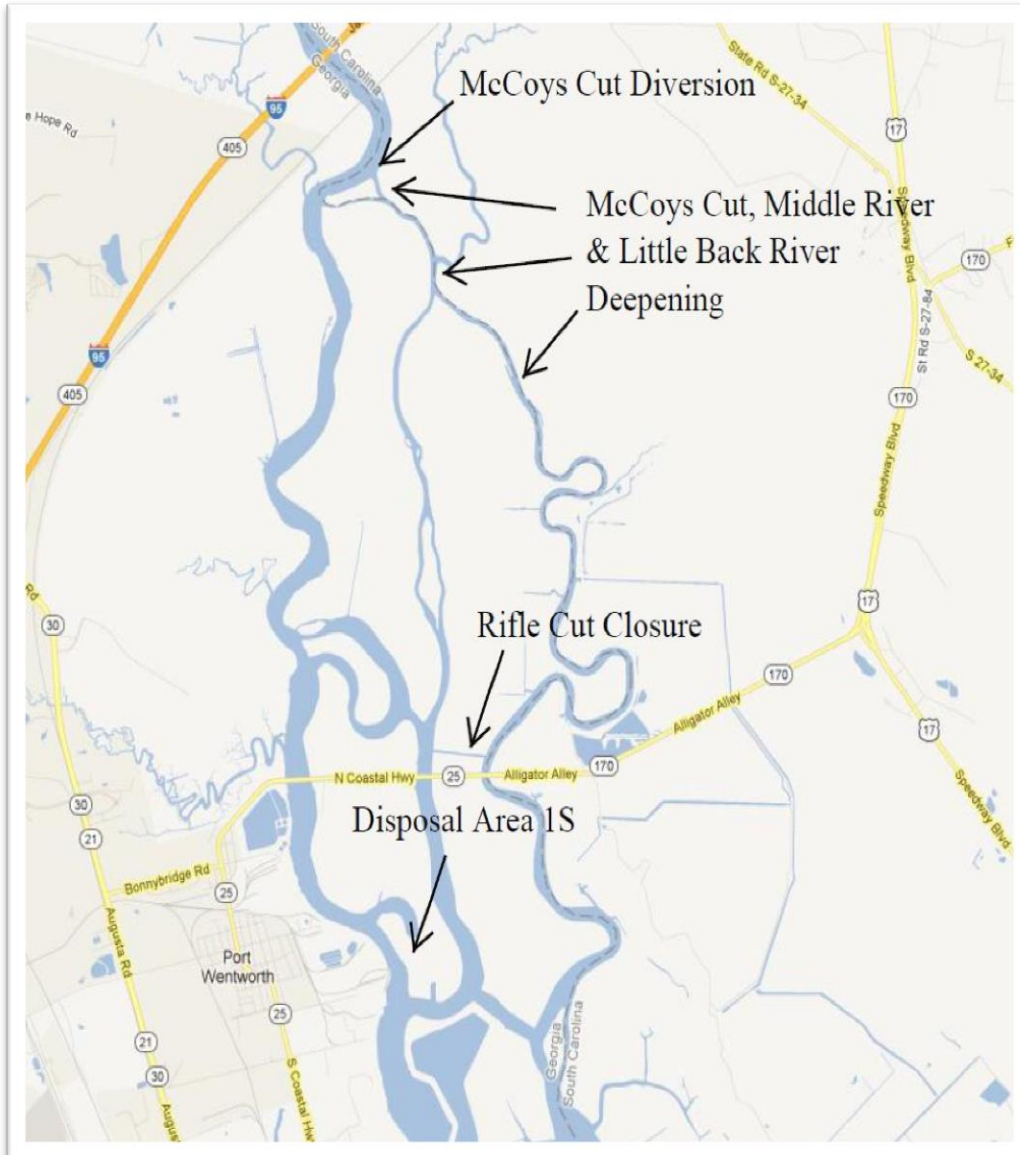
6th Project Under Construction – Tide Gate Removal Project (\$21.3 M)

- Awarded to De Moya Continental Joint Venture
- Tide Gate will be Removed and Channel will be widened
- Notice to Proceed issued on October 6, 2016
- Mobilization and Staging just beginning.





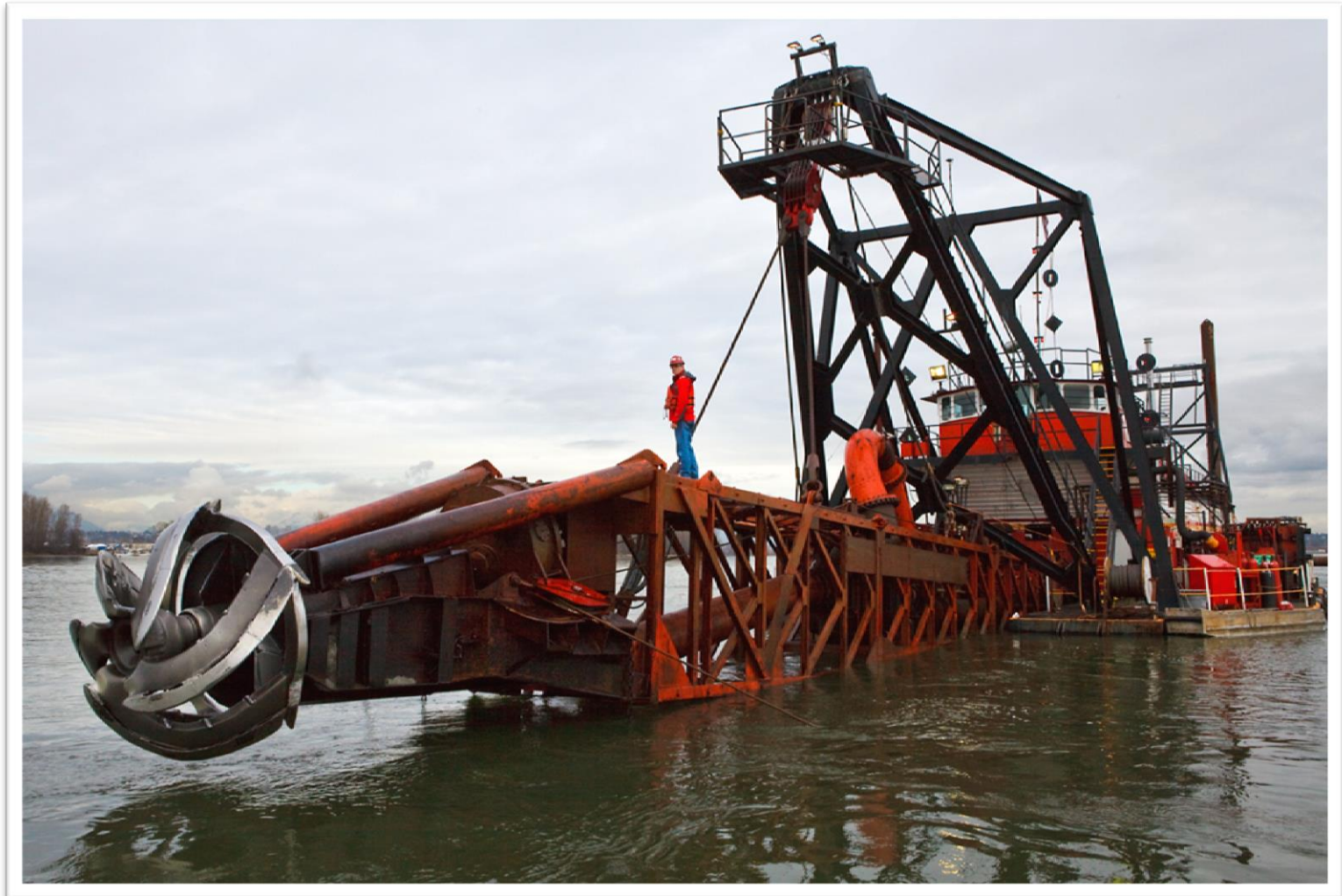
Remaining Features



- **Closure of McCoy's Cut - Divert freshwater from the Front River into the Middle and Back Rivers**
- **Closure of Rifle Cut**
- **Restoration of Area 1S to Salt Marsh**
- **Construction of a Boat Ramp on Hutchinson Island**
- **Construction of Fish Bypass around the New Savannah Bluff Lock and Dam**
- **Provide USFWS 2245 acres to become a part of the Savannah National Wildlife Refuge**

Inner Harbor Dredging (\$100M Est.)

- Once all Mitigation Features are Completed or In Progress the Inner Harbor Dredging can commence



Why is SHEP so important now?



On March 18, 2015

The 2nd Largest Ship to call on the Port of Savannah, the ZIM Tianjin docked at the Garden City Terminal.

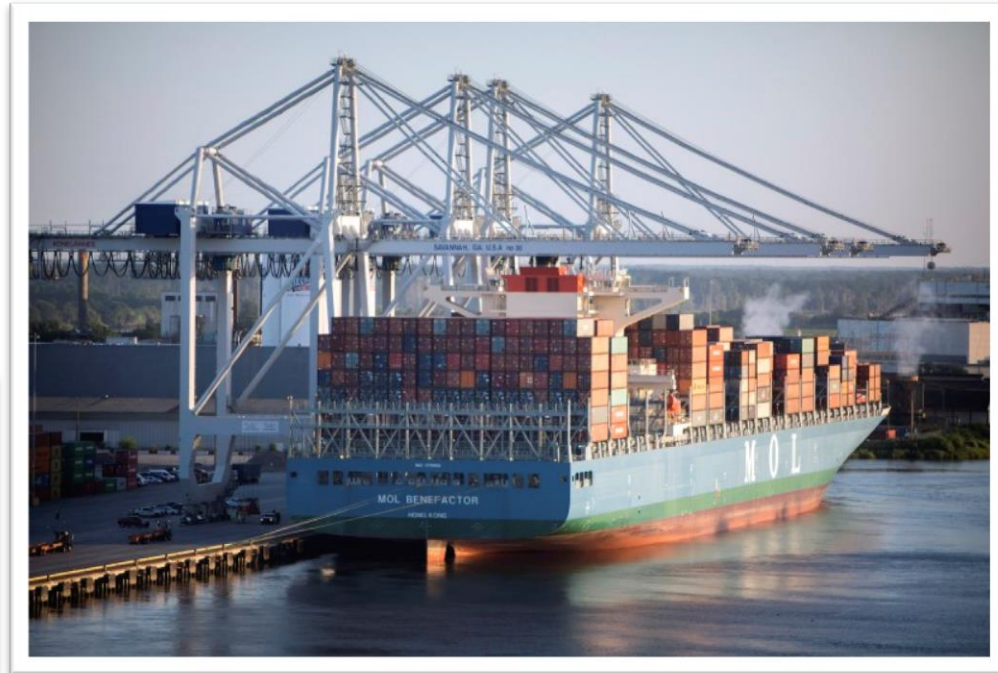
Sunday June 26, 2016

The Chinese based container ship COSCO SHIPPING PANAMA makes the maiden voyage through the newly expanded Panama Canal ushering in a new era in Global Shipping



July 13, 2016

MOL Benefactor – 1st Neo-Panamax Vessel to transit the expanded Panama Canal ,and the largest cargo vessel to call on the Port of Savannah docks at the Garden City Terminal



The MOL Benefactor departing the port in the Outer Harbor while passing the Dredge Illinois, as it deepens for SHEP

Today one-third of the Cargo Vessels that call on the Port of Savannah are Neo-Panamax Class Vessels



Questions?

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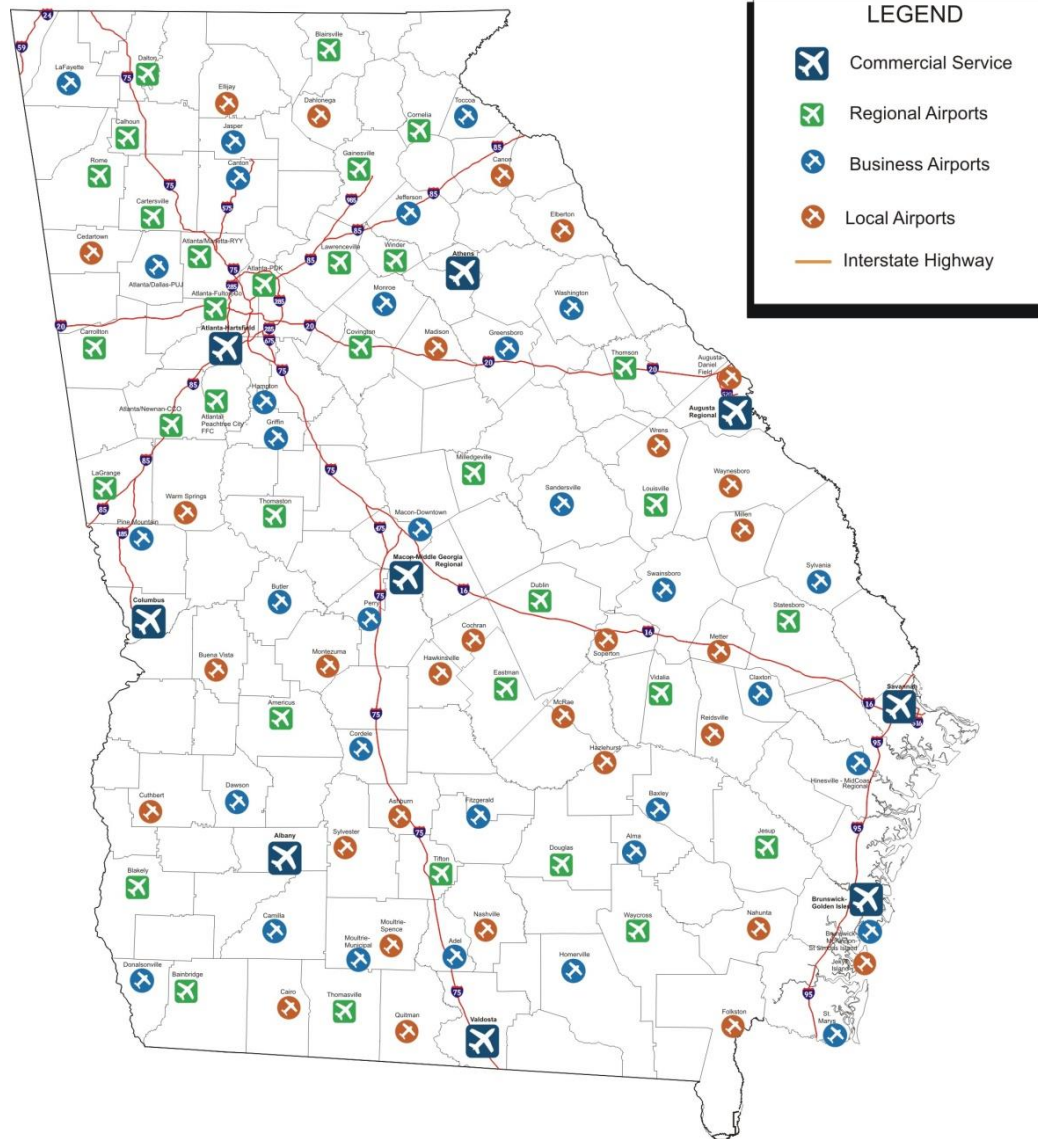


Aviation Program FY 16 Accomplishments

Presented by
Steve Brian
Aviation Program Manager



Georgia Aviation Statistics



105 public-use facilities

104 publicly-owned
9 Commercial Service

Albany, Athens, Atlanta,
Augusta, Brunswick,
Columbus, Macon,
Savannah, Valdosta

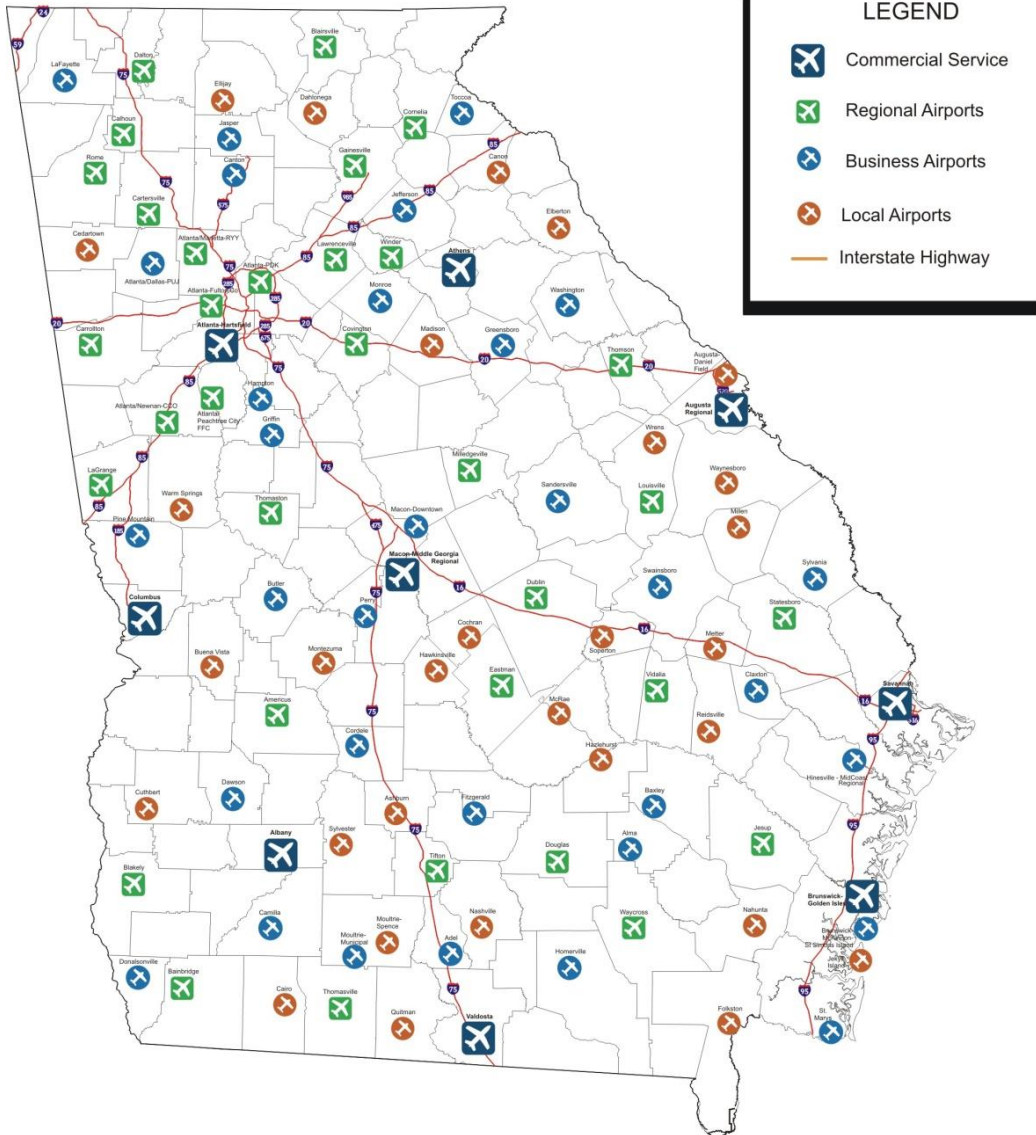
95 General Aviation

1 privately-owned
Warner Robbins

351 private use facilities

8,496 Registered Aircraft

14,855 Registered Pilots



Aviation Responsibilities

- **Assure a safe, adequate, and well-maintained system of 105 publicly-owned, public-use airports in Georgia**
- **Enabling Legislation**
 - 49USC 106 FAA
 - O.C.G.A. TITLE 32.2.2
- **Primary Functions:**
 - Guide airport development
 - Licensing and inspecting general aviation airports
 - Foster safe operating conditions

Guide Aviation Development

Aviation Projects are Funded by these Sources
Annual Appropriations from the State Legislature
Federal Aviation Administration (FAA)
Local Government and/or Airport Generated Revenue

State Airport Aid Program

- Funds provided by Georgia General Assembly
- Provides 75% state funds, 25% local funds
- Priorities: Safety, Pavement Maintenance, Economic Development

Federal State Block Grant Program

- Georgia became 10th block grant state in 2008
- Funds provided by FAA, Airport Improvement Program
- Provides 90% federal funds
- Priorities: Safety and Capacity



Funding Recap	FY 16 Actual	FY17 Planned
Total Amount Requested	\$268M	\$251M
Federal Funds Awarded	\$44M	\$82M
Local Funds	\$5.6M	\$6.5M
State Airport Aid Funds	<u>\$13M</u>	<u>\$12.5M</u>
Total Amount Awarded by FY	\$63M	\$101M
Total GDOT Projects	80	95



MidCoast Regional/Wright Army Airfield – Runway Extension \$14,611,907



Blairsville – General Aviation Terminal \$749,333



Cherokee County/Canton – Partial Parallel Taxiway \$3,396,277



Washington-Wilkes – Parallel Taxiway \$2,544,009



Harris County/Pine Mountain – Parallel Taxiway Relocation \$2,733,805



Columbus – 13/31 Rehabilitation \$2,312,477



St. Simons Island – 16/34 Rehab & Replace Lighting \$2,473,241



Valdosta –Terminal Apron Expansion \$3,648,134



Report Card for Aviation	2015	2016
Meet State Licensing Standards	77%	89%
SASP Minimum Runway Length	86%	86%
> 5,500 feet	45	45
5,000 – 5,499 feet	36	36
4,000 – 4,999 feet	11	12
< 4,000 feet	12	11
Airports with overall good pavement	84%	84%

On the Radar Screen . . .

- *High Priority Projects Remain Obstruction Removal, Pavement Maintenance and Safety Marking Projects*
- *November 2016 -State System Plan Update Begins*
- *FAA Revenue Use Policy on Aviation Fuel Taxes Moves Toward Implementation-Deadline December 2017*
- *51 Airports to be Inspected for State Licensing Starting in December & Completed April 1st*
- *Aviation Program Moving to Electronic Execution of Contracts*
- *New FAA Small UAS/Drone Regulation will Control this Activity (FAR PART 107)*





Questions

?

Steve Brian

Aviation Program Manager

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Transit Program Update

Presented by
Jamie Cochran, FAICP
Transit Program Manager

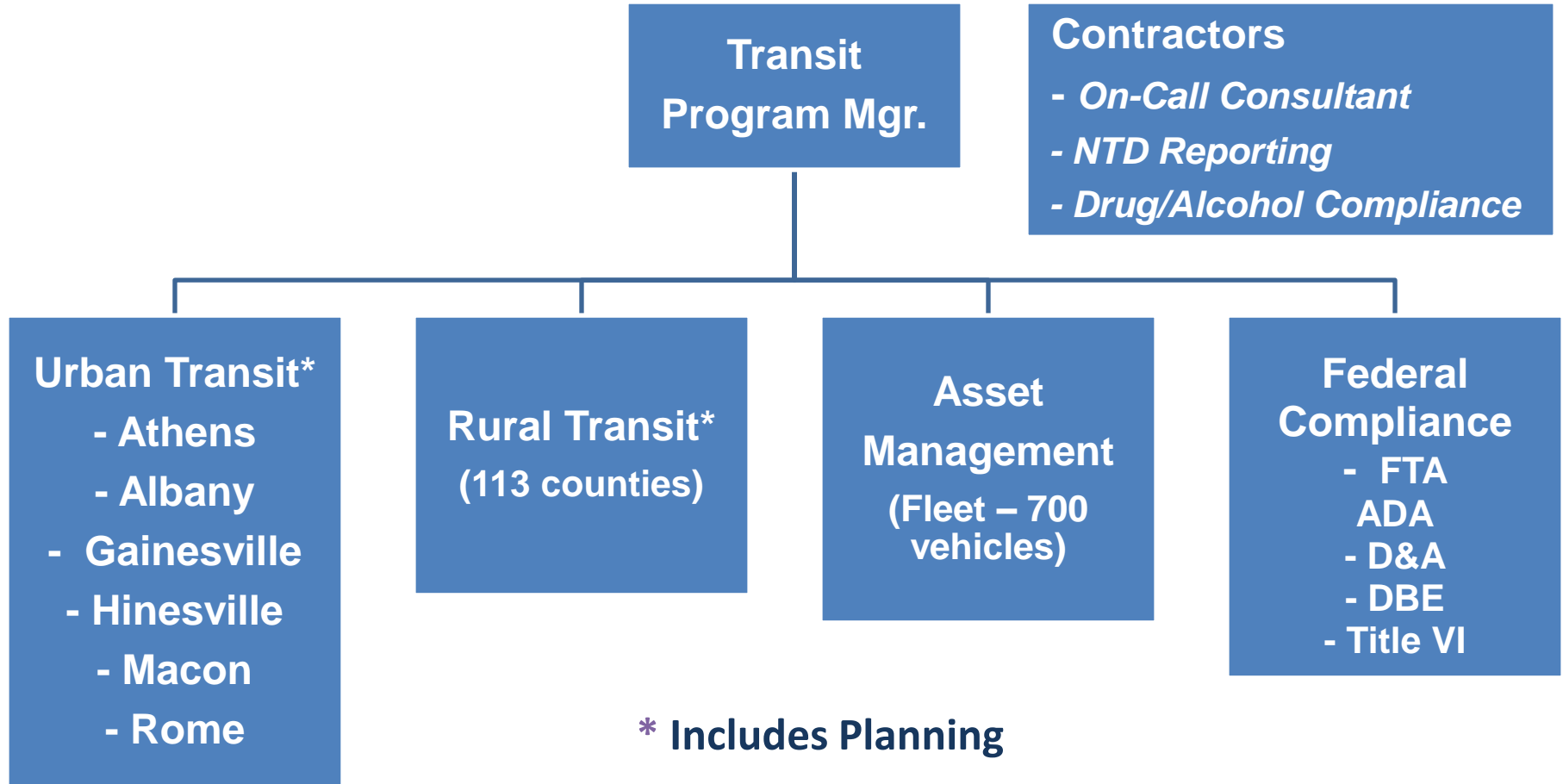


Transit Program Responsibilities

- **Receive & Administer Federal Transit Administration Grant Funds**
- **Compliance oversight and management of federally-funded transit programs**
 - **Small urban programs - 50 to 200K population**
 - **Rural transit systems - \geq 50K population**
 - **Vehicle procurement (700+ transit vehicles)**
- **Transit planning MPOs and Regional Commission coordination**



Atlanta (GO) Transit Team



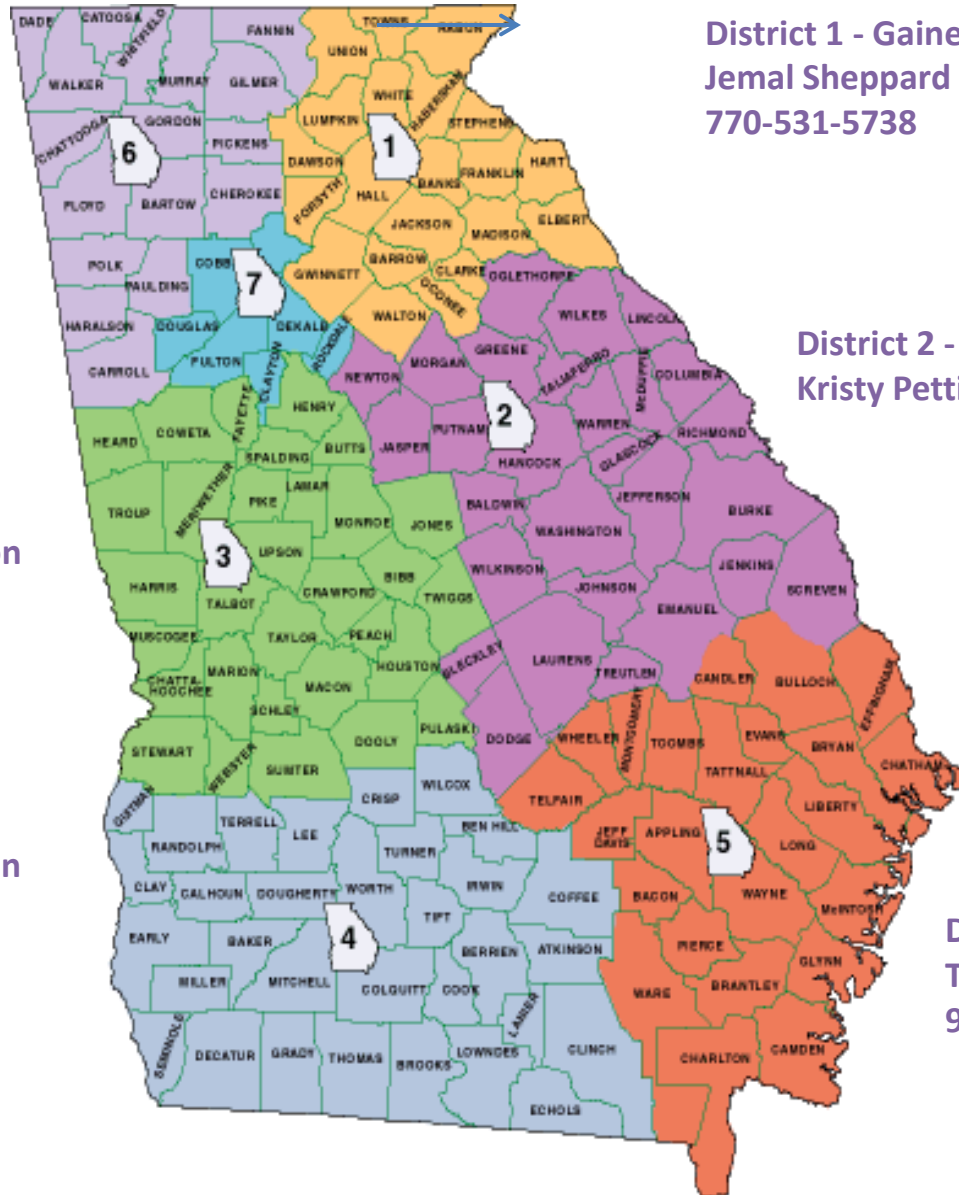


Districts

District 6 - Cartersville
Freida Black
678-721-5312

District 3 - Thomaston
Carrie Anderson
706-646-7570

District 4 - Tifton
Vacant
229-391-5462



District 1 - Gainesville
Jemal Sheppard
770-531-5738

District 2 - Tennille
Kristy Pettit 478-552-4634

District 5 - Jesup
Troy Green
912-427-5756



Georgia's Range of Transit Options

RURAL →



SUBURBAN →

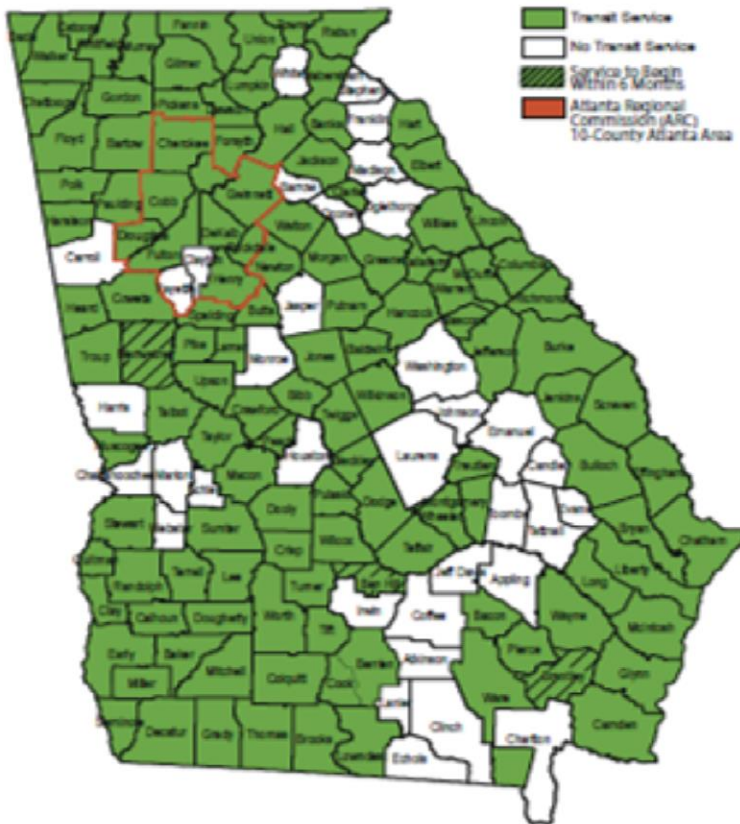


URBAN →





State of Georgia Public Transit Service By County



- 124 counties with Transit Service (includes 2 counties to begin service within next 6 months)
- 25 counties without Transit Service
- 14 Urban Transit Systems (Georgia Regional Transportation Authority (GRTA) operates Metrol Express service in Clayton County, with two Park and Ride lots in Shreveville and Anandale)
- 114 Rural Transit Systems

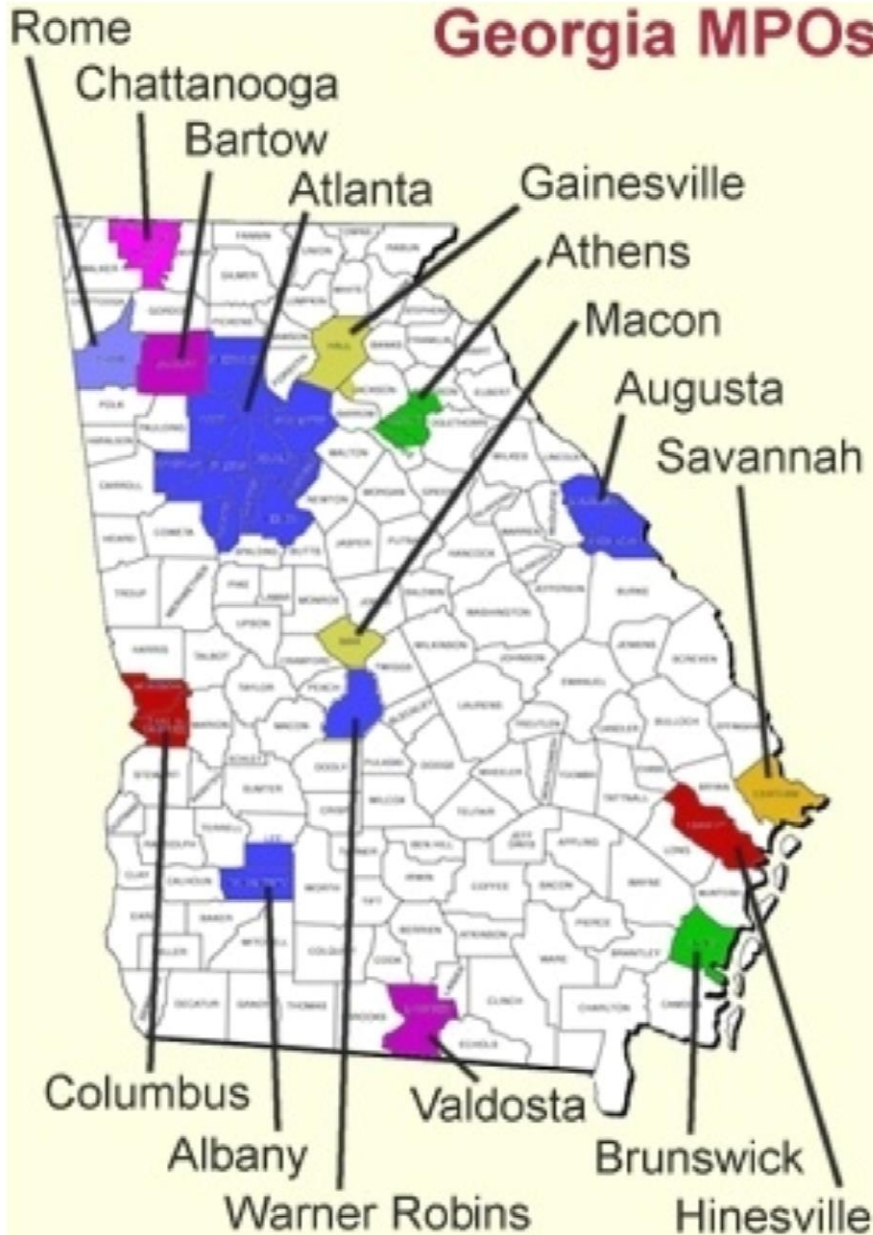
For more information on Public Transit in your area – including Bus, Rail and Ferry service, fare structures, hours and maps – contact Georgia DOT's Transit Program Manager at 404.347.8074.

GEORGIA'S TRANSIT SYSTEMS

- 113 rural transit systems
- 6 small urban systems
- 6 large urban systems
- 34 counties with no transit
- 159 counties in Georgia

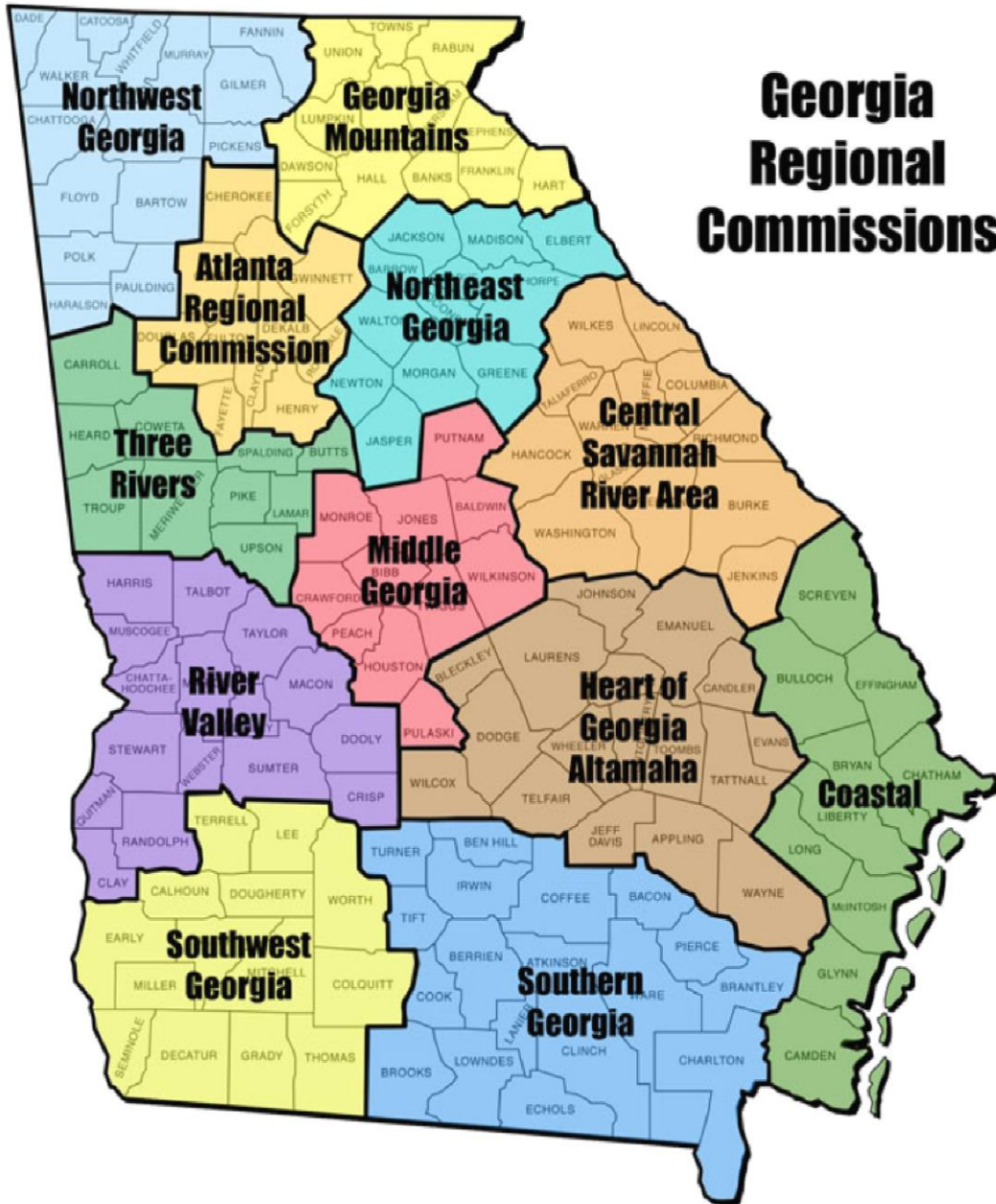


Georgia MPOs



15 Metropolitan Planning Organizations (MPOs) in Georgia

- **GDOT Transit Program provides funding for urban area planning**
- **MPOs responsible for:**
 - **Multimodal transportation planning**
 - **Unified Planning Work Program (UPWP)**
 - **Long-Range Transportation Plan (LRTP)**
 - **Transportation Improvement Program (TIP)**



Georgia Regional Commissions

12 Regional Commissions:

- GDOT Transit Program administers state and federal funding for:
 - Planning
 - Mobility Management

- Four (4) RCs and directly or partially involved in “regional rural transit systems”

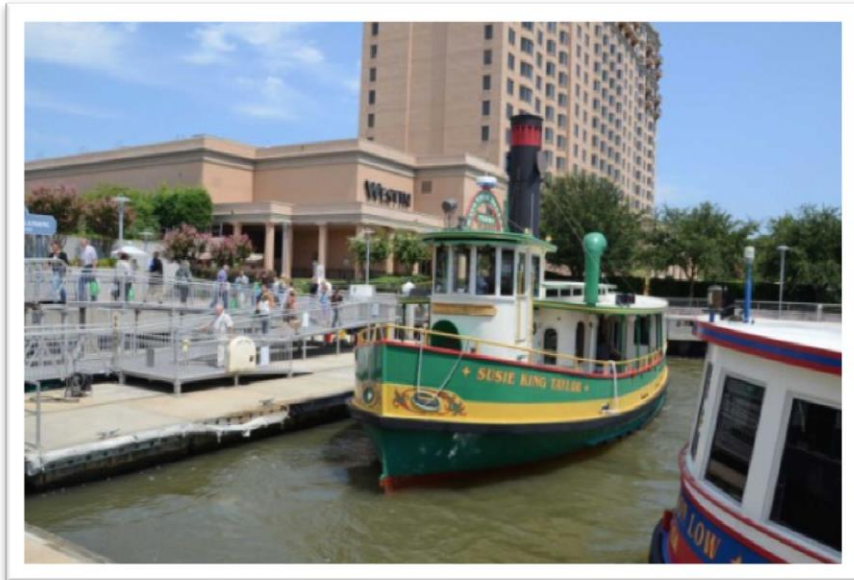


FY 2016 Transit Program Recap

Project Type	Federal	State	Local	Total
Small Urban Capital	\$ 4.6	\$ 0.5	\$ 0.5	\$ 5.6
Small Urban Operating	\$ 7.5	\$ 0.0	\$ 7.5	\$ 15.0
Rural Capital	\$ 4.7	\$ 0.6	\$ 0.6	\$ 5.9
Rural Operating	\$ 14.8	\$ 0.0	\$ 14.8	\$ 29.6
TOTAL	\$ 31.6	\$ 1.1	\$ 23.4	\$ 56.1

Includes expenditures for all rural systems plus six (6) small urban systems (Albany, Athens, Hall, Hinesville, Macon, and Rome) – does not include large urban systems (MARTA, Savannah, Augusta, Columbus, etc.)

FY 2016 Activities



- **Delivered nearly 9 million urban transit trips**
- **Delivered about 1.8 million rural transit trips**
- **Began new GDOT Training Guides for Rural Transit Systems and Internal Team Members**
- **Working on State Transit Management Best Practices Research**
- **Began State Management Plan (SMP) Update to Comply with FTA Regulations**
- **Began Transit Asset Management Target Process**

Annual Frank Hill Award - 2015 Transit System of the Year

Wayne County Transit Recipient -“Frank Hill Award”

- Began in 2006 with 2 vehicles
- Expanded to 11 vehicles
- Ridership has expanded from 300 to 3600 one way trips
- Operates 24 hours/7 days a week

Awarded at 2015 GTA Conference

2016 to be awarded this week



Athens Transit System Receives National Recognition

- **2016 “Urban Community Transportation System of the Year” - CTAA**
- **GDOT 5307 Recipient**
- **\$3.7 million contract in FY16 in operating and capital funds**
- **Providing 1.7 million trips annually**



FY 16 - Rural Transit Start-ups

- **Ben Hill County**
 - Based in Fitzgerald
 - Call 426-RIDE
 - Serves senior centers, hospitals, doctors, shopping areas, and excursions

- **Brantley County**
 - Based in Nahunta
 - Started in March 2016
 - Operating with one vehicle





Planned FY 2017 Activities

- Launch First Statewide Transit Plan
- New Electronic Program Management System
- Develop New Asset Management and Safety Plans/Systems
- Continue/Grow Service Coordination with DHS Transportation
- Atlanta - New Greyhound Intercity Bus Station
- Albany Transit Center
- Savannah Ferry Boat Rehabilitation





Questions ?

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Transit Program Manager
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Phone: 404-631-1237



Intermodal Rail Program

Stenley Mack, P.E.

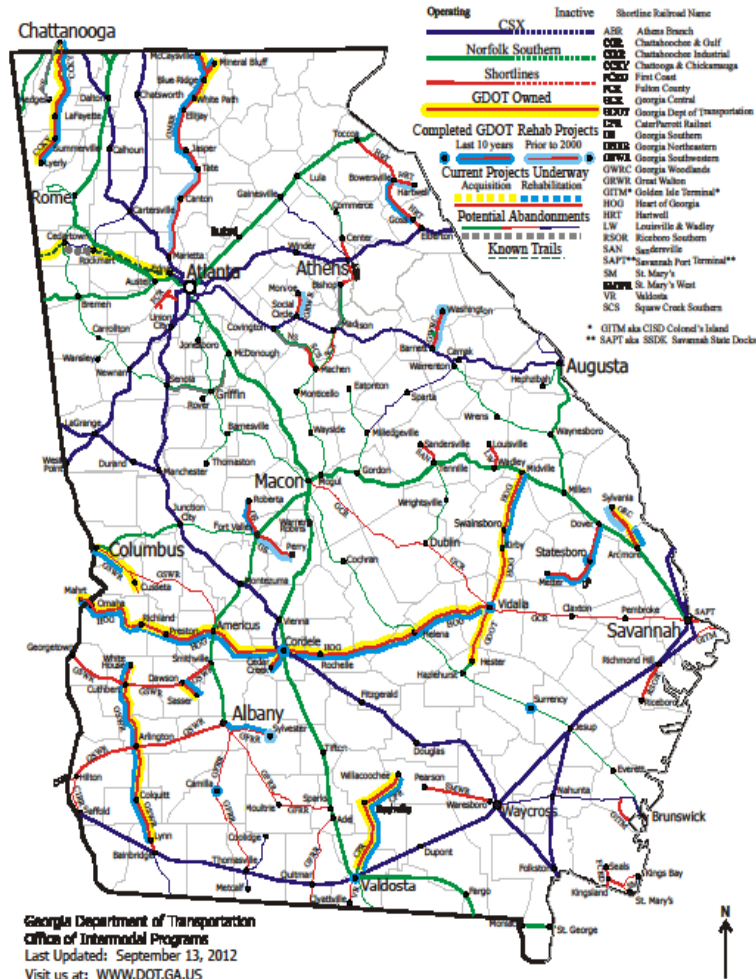
Rail Program Manager

Georgia Department of Transportation

December 7, 2016



Georgia's Rail System



Georgia Department of Transportation
 Office of Intermodal Programs
 Last Updated: September 13, 2012
 Visit us at: WWW.DOT.GA.US
 Or Search for us online, enter: "GDOT RAIL"

The Department has lease agreements with 6 shortline railroad companies:

Heart of Georgia	224 miles
Georgia Southwestern	102 miles
Georgia Florida	43 miles
Ogeechee	22 miles
Chattooga & Chickamauga	49 miles
Georgia Northeastern	<u>25 miles</u>
GDOT Leased TOTAL	465 miles

Silver Comet Trail	55 miles
Other Shortlines	492 miles
Total Class I Railroads	3,631 miles

Total Rail System 4,643 miles

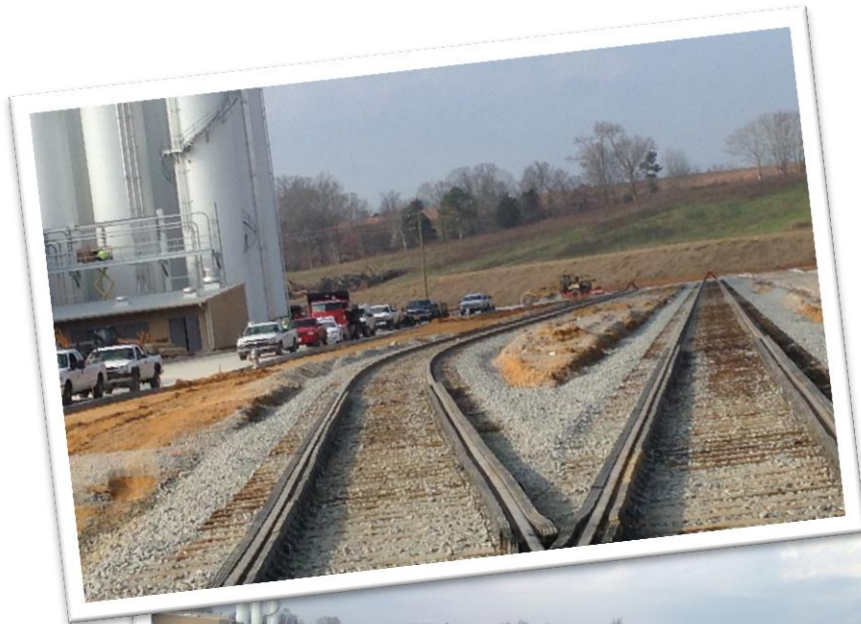


State Bond Funds Appropriated

	FY15	FY16
Identified Needs	\$28.5M	\$29.5M
Appropriated	\$ 8.2M	\$ 6.8M
Number of Projects	5	4
% of Needs Funded	29%	23%

Rail – FY 16 Accomplishments

CCKY Line - New spur rail LaFayette, Walker County - \$1.0 Million



- Walker Co Industrial Park
- Audia – International Plastics Company
- \$60 Million Private Investment
- 300,000 SF Facility
- 150 new jobs

Rail – FY 16 Accomplishments

HOG Rail line rehabilitation project - \$4.3 Million

Crossties and ballast Cordele to Vidalia

BEFORE



AFTER



Rail – FY 16 Accomplishments

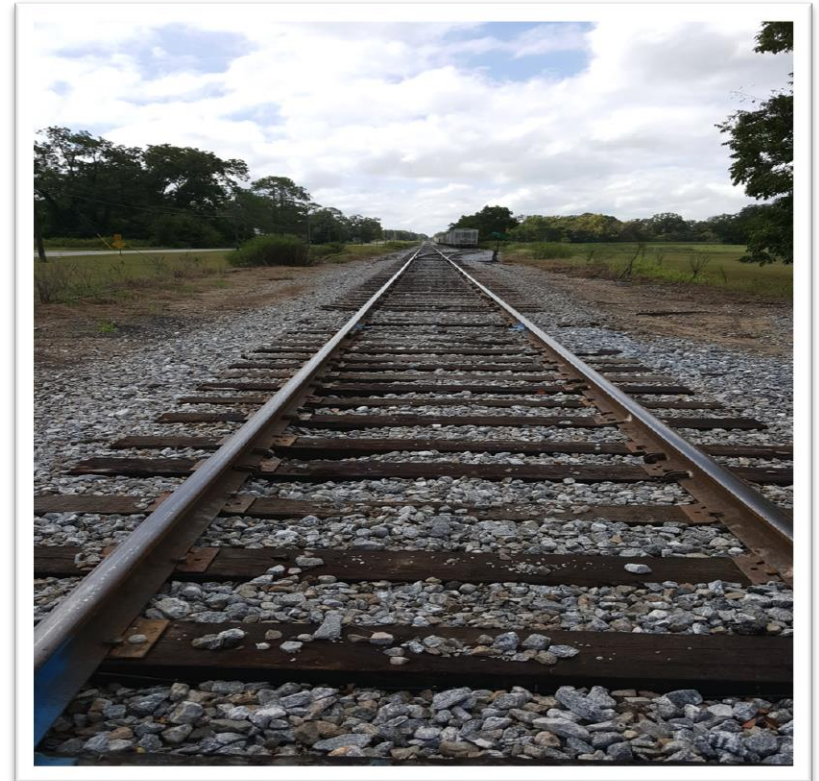
Georgia Southwestern Rail Line Rehab \$2.3 M

ARLINGTON TO CUTHBERT

Crossing rehab in Arlington on SR 45

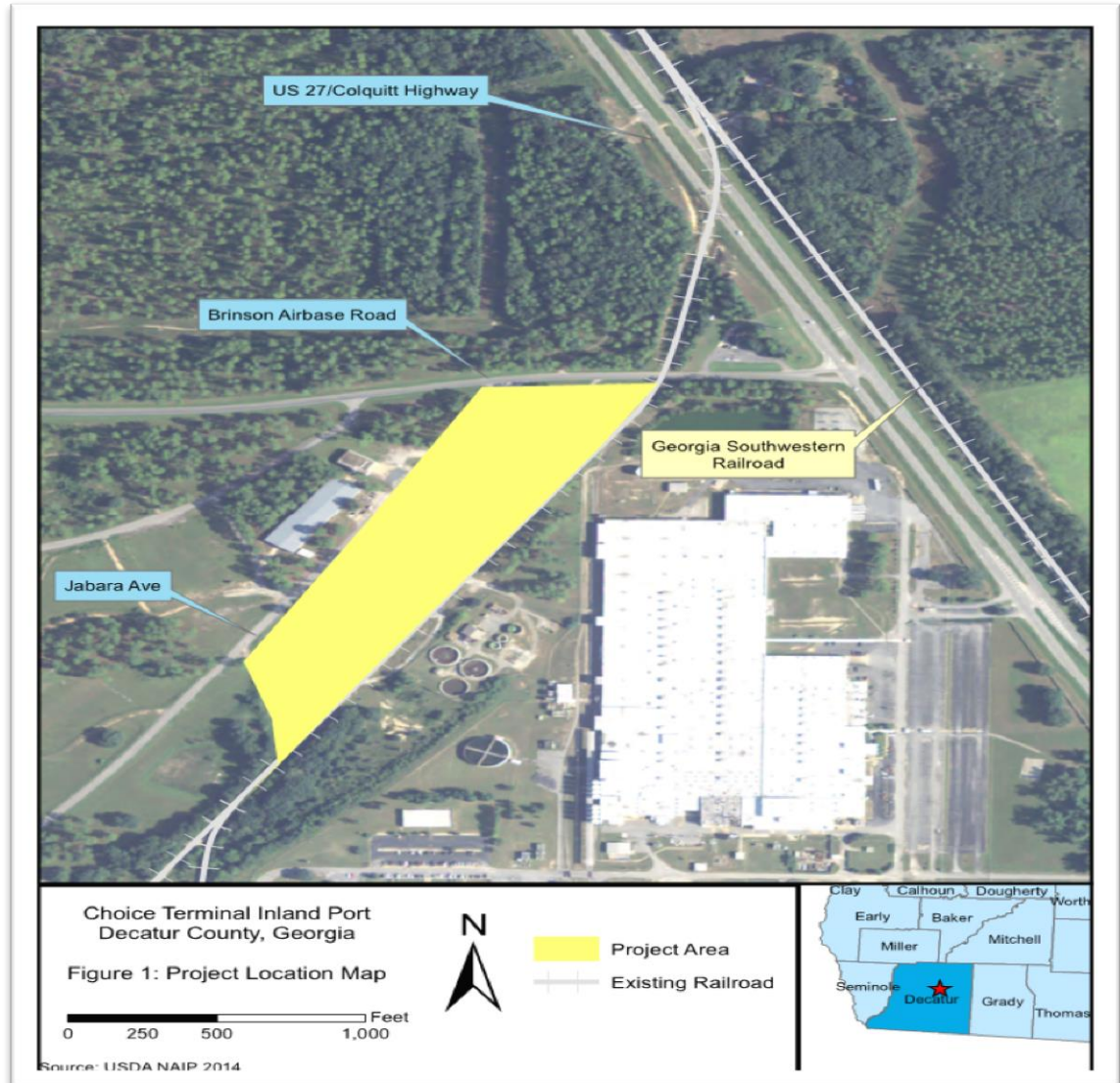


Crossties rehab



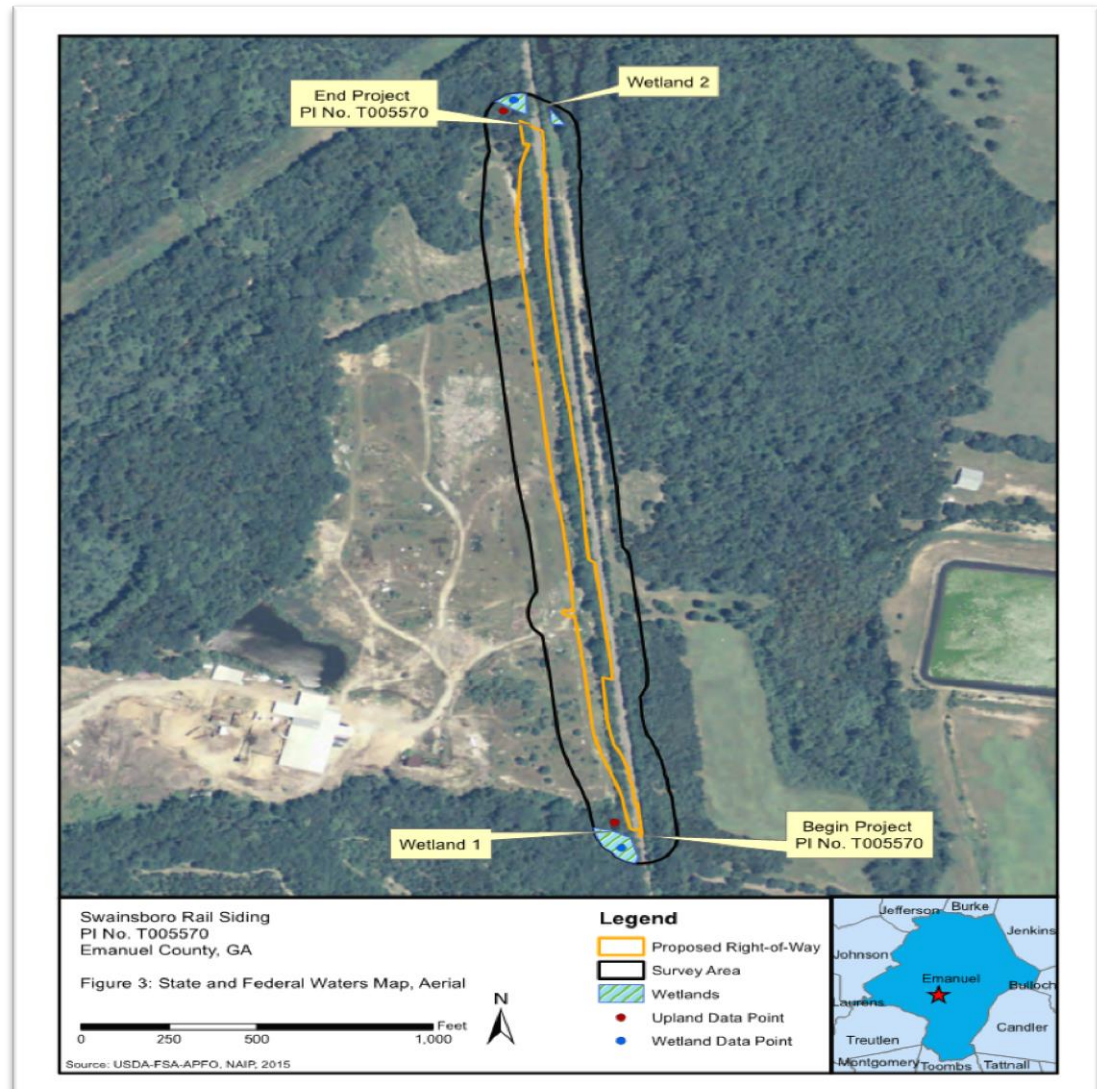
FY 2017 - TRACK RAIL SPUR CONSTRUCTION DECATUR COUNTY NEAR US 27/COLQUITT HWY

- Intermodal facility in Decatur County Industrial Park
- Connects GSWR with CSX and NS
- 1800 feet of track
- Project cost is \$500K



FY 2017 SPUR RAIL CONSTRUCTION EMANUEL COUNTY

- 2400 foot spur track
- Emanuel County Industrial Park
- 20 new jobs
- Serves Wood Pellet Manufacturer Exporting from Colonel's Island
- Project cost is ~ \$750K





FRA Funded Planning Studies

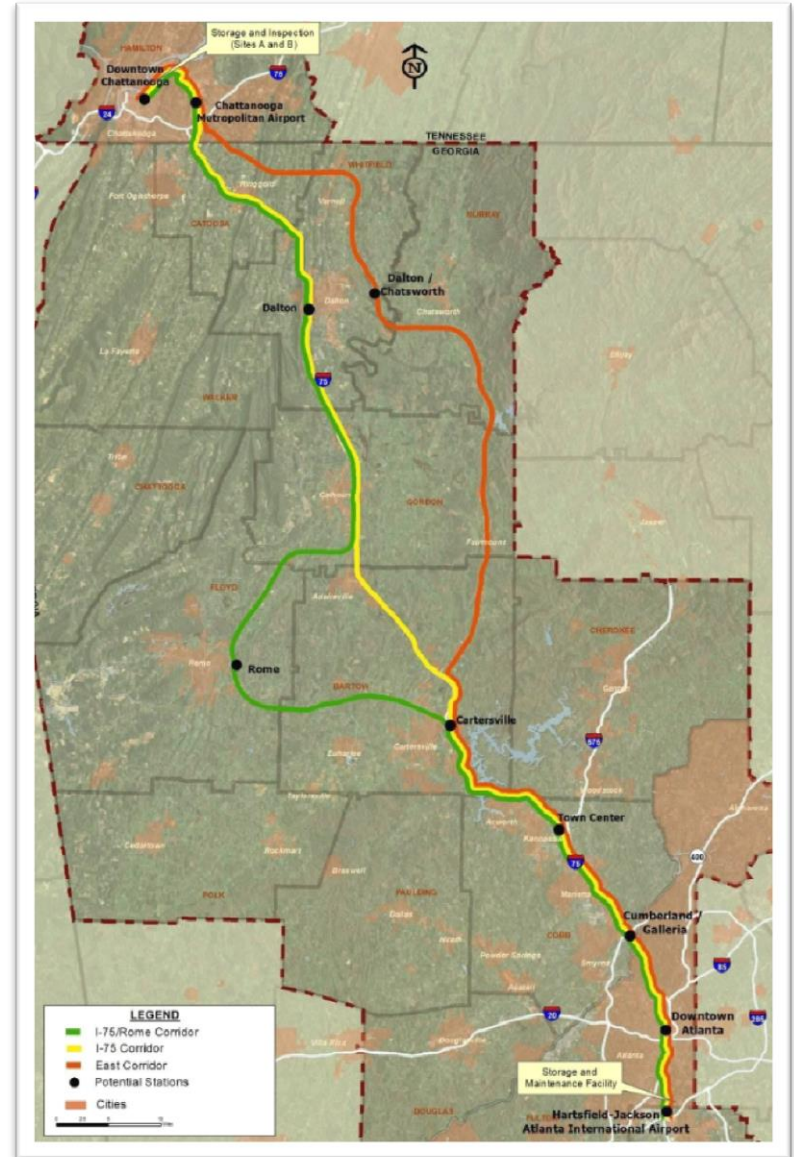
- **Atlanta to Chattanooga –**
High Speed Ground Transportation (HSGT) Study

- **Atlanta to Charlotte –**
Passenger Rail Corridor Investment Plan (PRCIP)



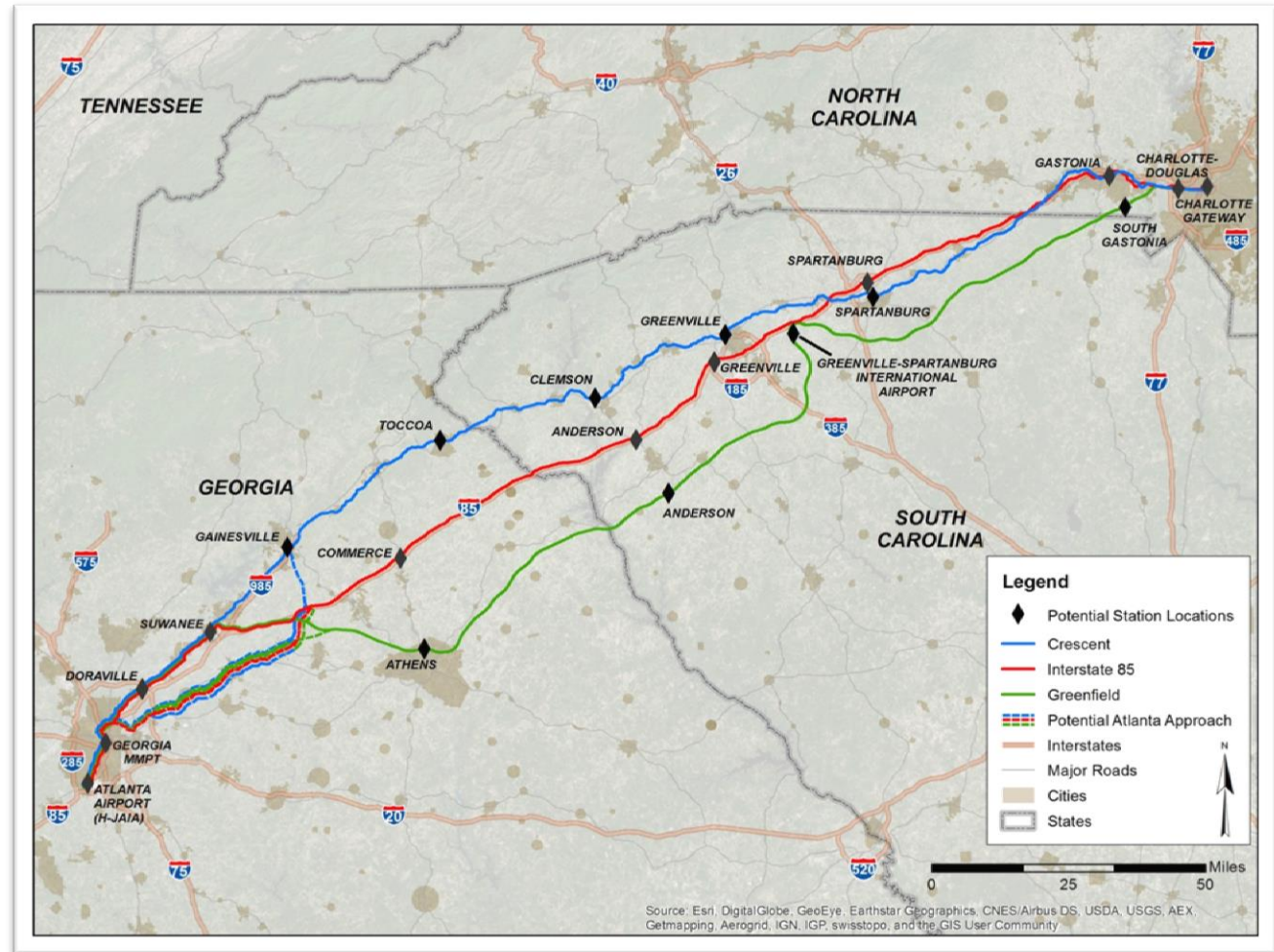
Atlanta to Chattanooga

- Tier I Environmental Impact Statement
- Technology Neutral
- Assumes New Track or Guideway
- Public Hearings held Nov 2016
- Summer 2017 Record of Decision



Atlanta to Charlotte

- Tier I Environmental Impact Statement
- 3 Potential Corridors under study
- Draft EIS in review
- Spring 2018 Record of Decision



State Rail Plan

- Plan Evaluates:
 - Freight rail needs
 - Potential future passenger rail
 - Rail's economic impacts
- Passenger Rail Investment & Improvement Act (PRIIA)
FRA Requirement
- [Georgia SRP Video](#)

