I-75 South Corridor and Subarea Master Planning Study

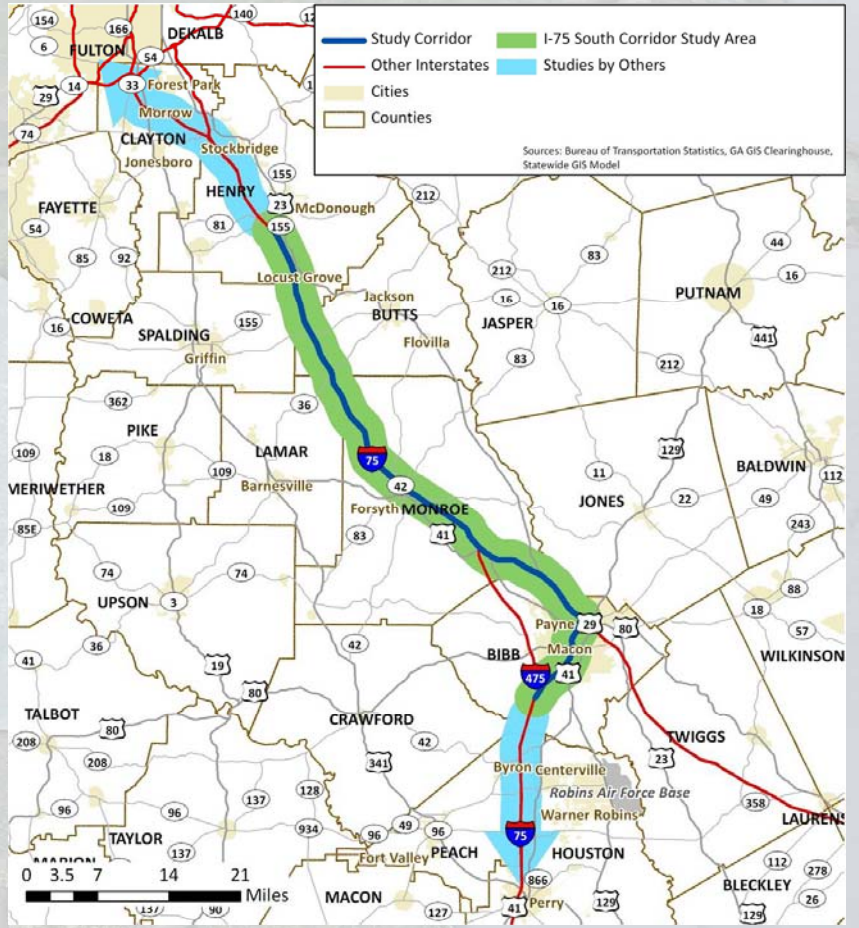
Project Steering Committee Meeting No. 2

September 24, 2012

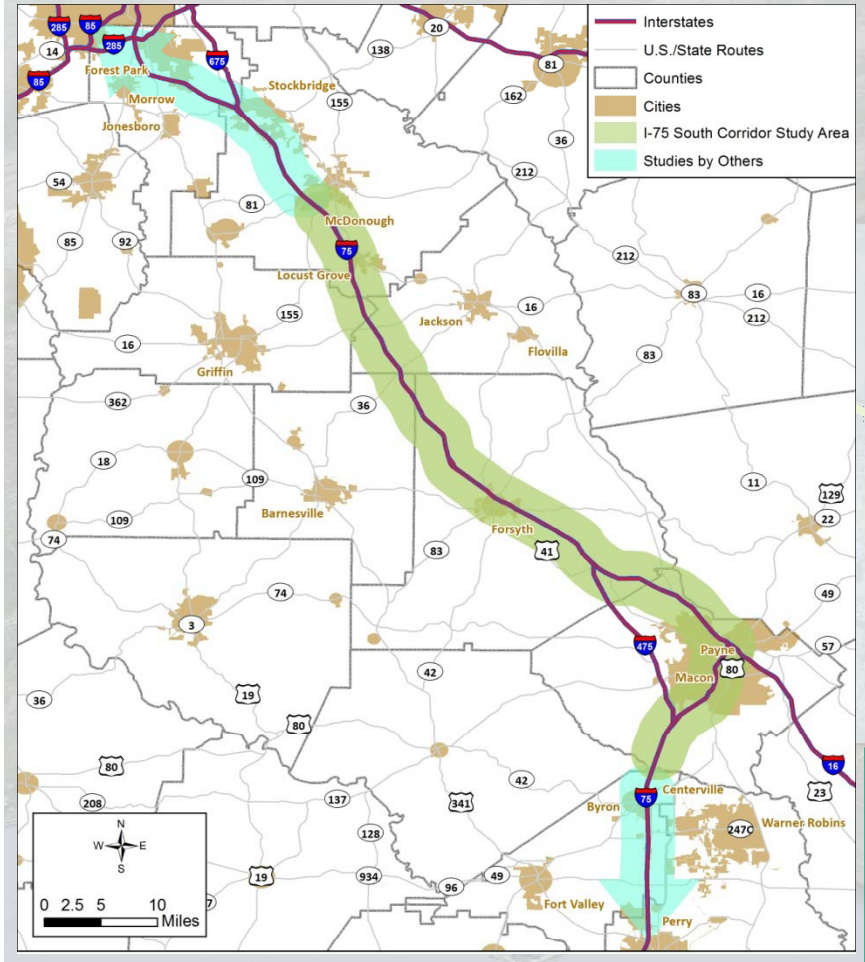
Georgia Department of Transportation
Office of Planning

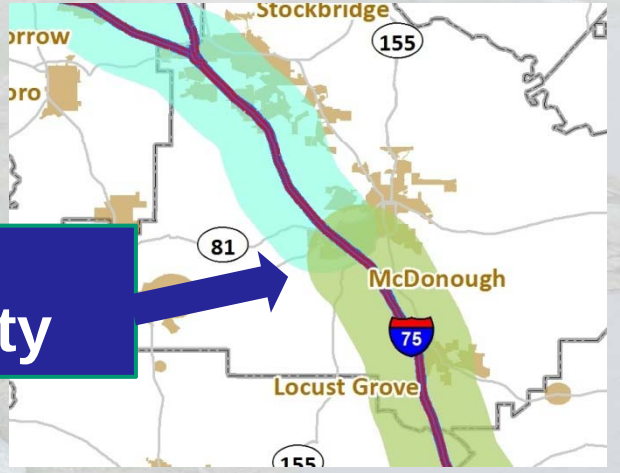
Agenda

- Introductions
- Review of Study Expectations and Refined Study Goals
- Stakeholder Committee Activity Update
- Summary of Existing Conditions
- Project Status and Next Steps
- Group Discussion

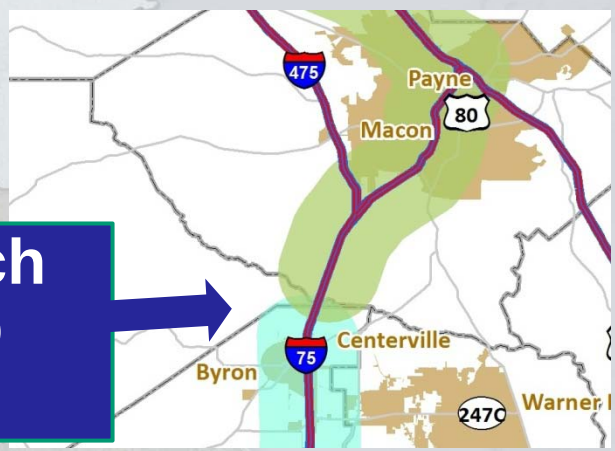


Project Study Area





SR 155 in Henry County



Sardis Church Road in Bibb County

Expected Study Results

- Conceptual Improvements and Projects
- Specific Interchange Area Recommendations
- Identify Multimodal Connectivity Improvements
- Action Plan with Specific Implementation Steps Identified
- Review Adopted Land Use Plans and Comprehensive Plans

Riverside Dr
Riverside Dr
Riverside Dr

Updated Study Goals

I-75 South Corridor Study Goals
• Ensure Efficient Regional and Interstate **Mobility** for **People** and **Goods**
• Provide **Connectivity** and **Accessibility** to Regional Activity Centers
• Enhance and Improve **Safety** for All Users
• Preserve and Enhance **Environmental**, **Cultural**, and **Historic Resources**, as well as **Quality of Life**
• Utilize and Recommend Transportation Designs that **Enhance Facility Function** and Compatibility, While **Maintaining Community Character**
• Invest in Infrastructure that **Supports Economic Sustainability** and Viability
• Consider **Multimodal Transportation Options** Evaluated in Previous Studies
• Assist in Expanding **Georgia's Role** as a **Major Logistics Hub** for Global Commerce
• **Improve Intergovernmental Coordination** for Successful Infrastructure Development

Study Committees

Project Steering Committee

(Meets up to Five Times)

Agencies

GDOT
FHWA
GRTA

MPOs

Atlanta Regional Commission
Macon MPO (MATS)
Warner Robbins MPO (WRATS)

Regional Commissions

Atlanta Regional Commission
Three Rivers
Middle Georgia

Stakeholder Committee

(Workshops and Project Portal)

Half Day Workshops

Local Governments
Regional Commissions

Information Transfer Via Project Portal

Local Governments
Regional Commissions
Other Agencies *(SRTA, FTA, etc)*
Freight Entities
Development Authorities
Emergency Mgmt. Officials
Environmental Interests
Railroads
Environmental Justice Leaders
Chambers of Commerce
Military Installations
Universities

Steering Committee Meeting No. 1

- **Meeting Held February 2012**
  - **The Following Agencies Attended:**

Georgia Regional Transportation Authority (GRTA)	Three Rivers Regional Commission
Atlanta Regional Commission (ARC)	Middle Georgia Regional Commission
Macon Area Transportation Study (MATS)	GDOT Central Office and District Three Office

- **Developed Initial Study Goals**
- **Discussed Corridor Issues and Opportunities**
- **Discussed Studies/Plans to Review as part of Existing Conditions Analysis**

Stakeholder Committee Workshops

- **Meeting Held May 2012**
  - Two locations: Northern and Southern parts of Corridor
  - The Following Agencies Attended:

Bibb County	City of Macon	Georgia Power
Butts County Development Authority	City of Locust Grove	GDOT Central Office and District Three Office
Central Georgia EMC	City of McDonough	Griffin – Spalding County
City of Forsyth	City of Warner Robins	Henry County

- **Reviewed and Refined Study Goals**

- **Reviewed and Discussed Existing Conditions and Future Development**
  - Identified and Mapped Issues, Concerns, and Needs

Stakeholder Committee
May 2012 – Workshop Summary

- **Major Study Issues and Needs Identified:**
  - **Capacity/Connectivity:**
    - ✓ There is a general lack of parallel facilities along I-75 South
    - ✓ Mobility on local streets is suffering because of I-75
  - **Freight:**
    - ✓ Truck volumes are expected to increase because of the deepening of the Port of Savannah and the widening of the Panama Canal
    - ✓ Truck parking is an issue, as truckers are required to rest after 10 hours

Stakeholder Committee
May 2012 – Workshop Summary

- **Major Study Issues and Needs Identified:**
  - **Environmental:**
    - ✓ Air quality must be taken into account
  - **Land Use:**
    - ✓ There are numerous existing and planned large industrial, commercial, and residential developments that will continue to impact the transportation system

Current Project Status

- **Data Collection Complete**
  - Roadway and Transportation Data
  - Environmental Data
  - Travel Demand Modeling Data
  - Inventory of Other Studies and Planning Efforts
  - Land Use Data
  - Identification of Data Gaps and Deficiencies

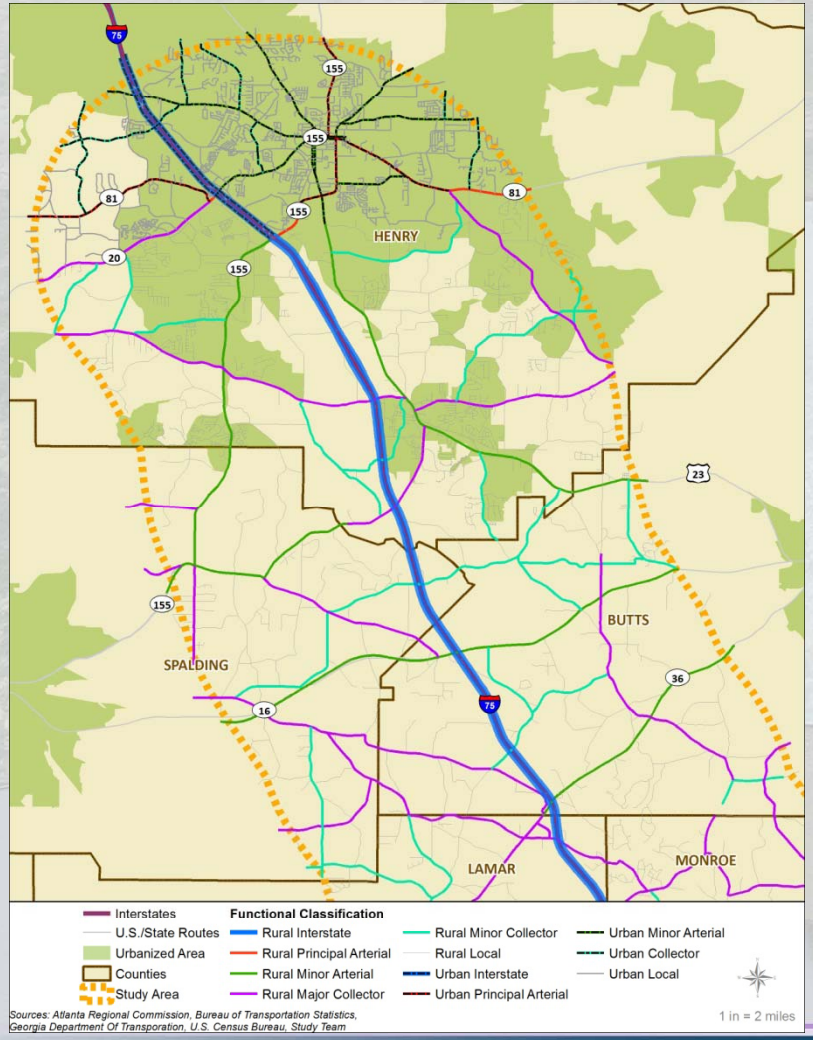
- **Additional Traffic Counts Collected**

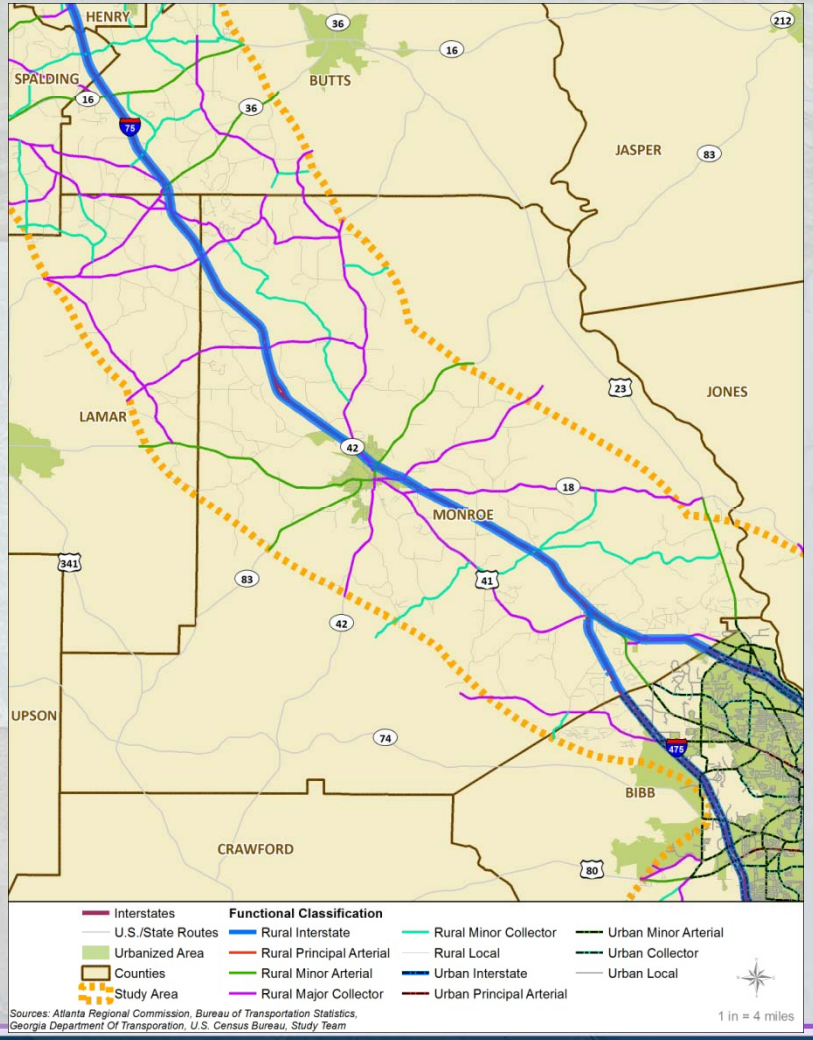
- **Inventory of Existing Conditions and Analysis Underway**

SUMMARY OF EXISTING CONDITIONS

Existing Conditions: Roadway

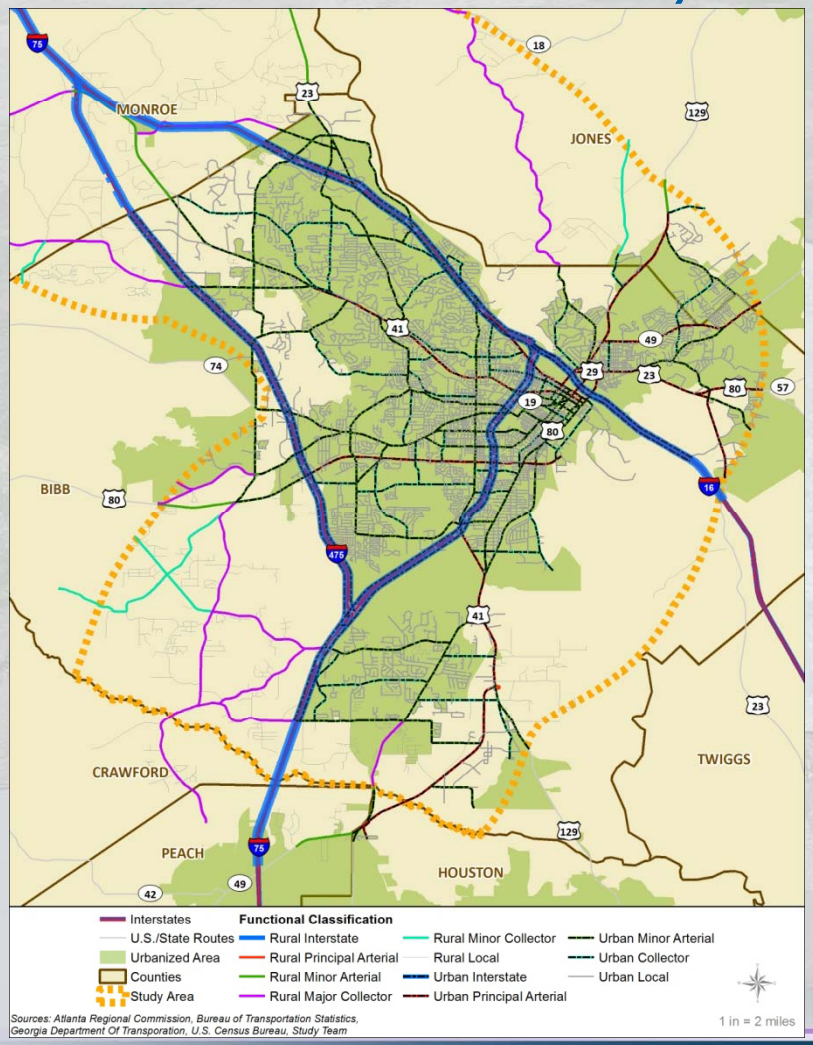
Functional Classification





Existing Conditions: Roadway

Functional Classification, cont'd.

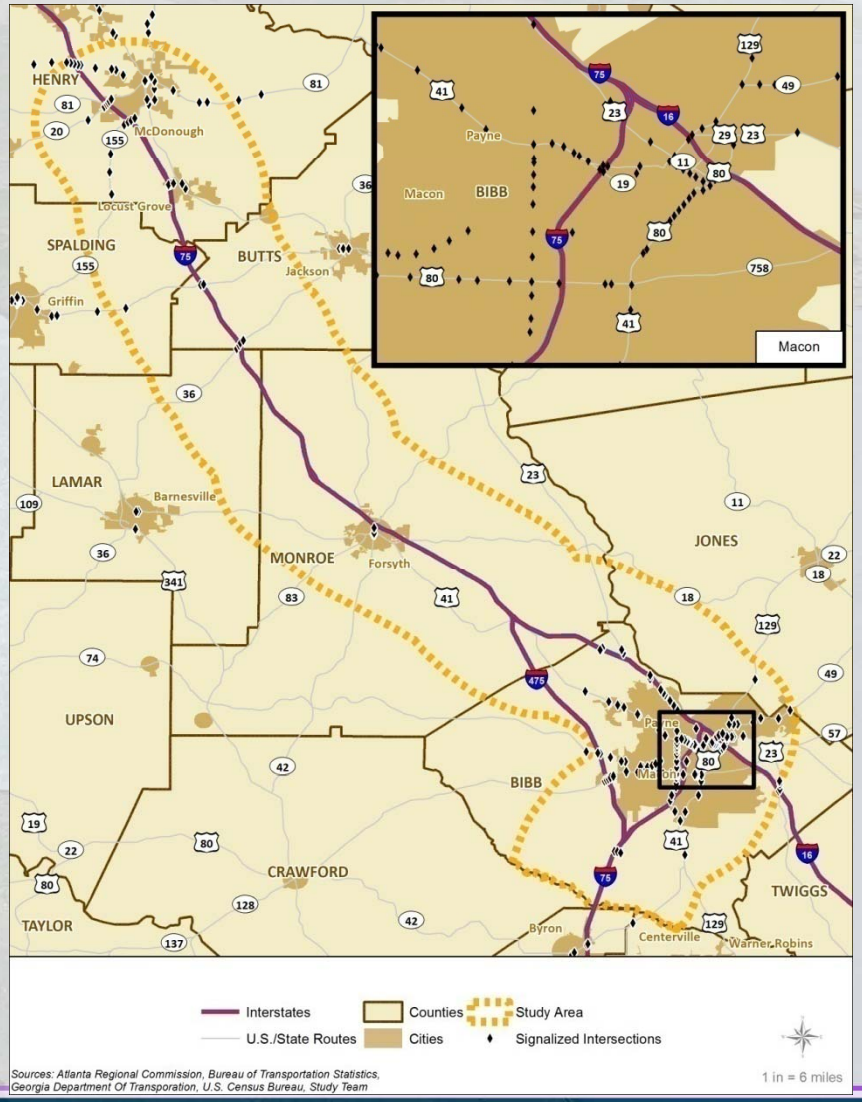


- Limited North-South Routes
- Majority of Facilities are Two Lane

Existing Conditions: Roadway

Signalized Intersections

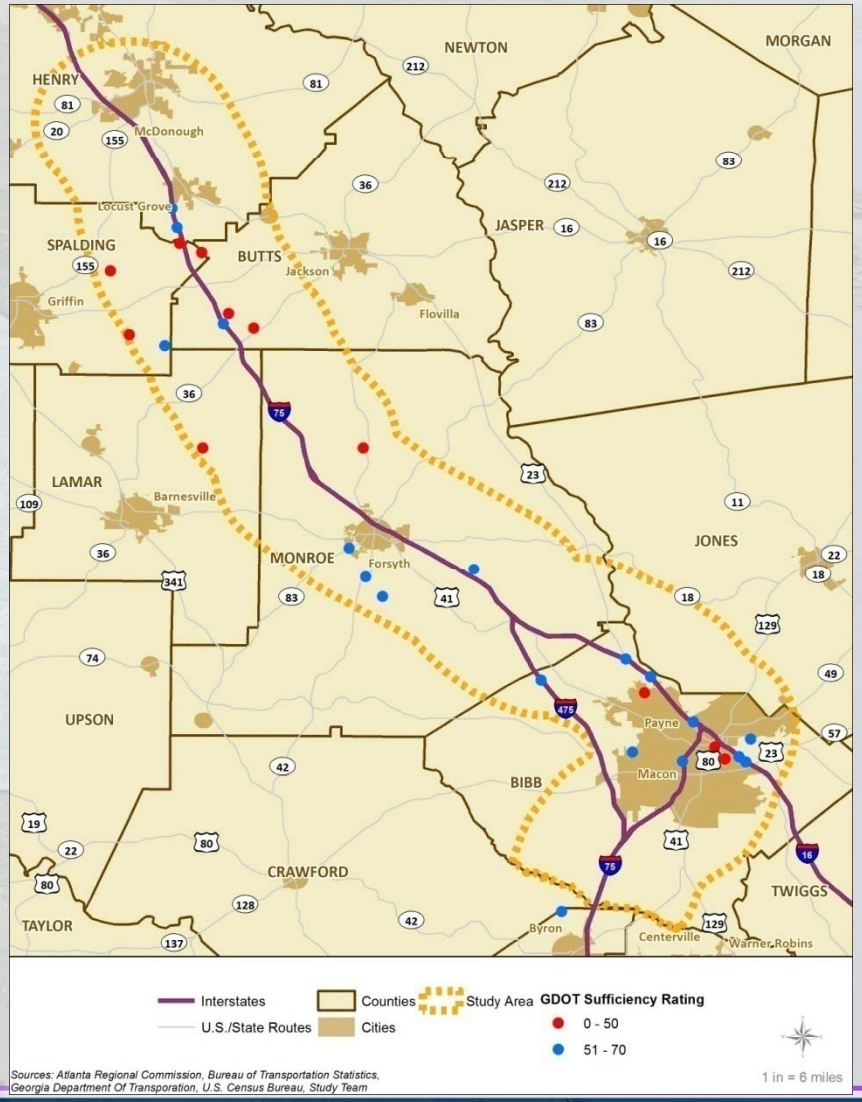
- 191 total signalized intersections
- Primarily in Urbanized Areas:
  - Macon
  - Forsyth
  - McDonough



Existing Conditions: Roadway

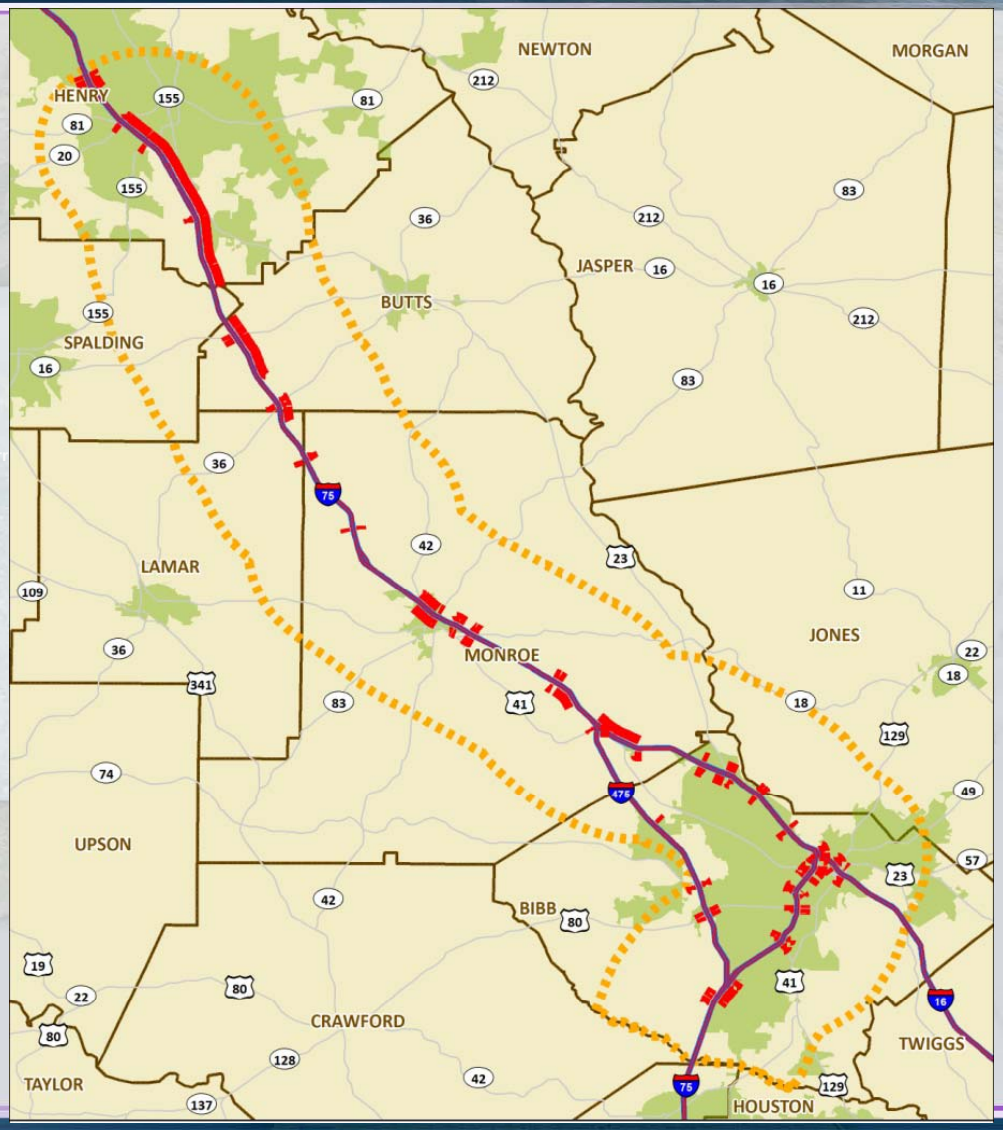
Bridge Sufficiency

- Data Obtained for 94 Structures Within Study Area
- 83 (88%) have a Sufficiency Rating above 50
- Sufficiency Ratings below 50 indicate that Bridge is Eligible for Replacement Based Upon Current Standards



Existing Conditions: Roadway

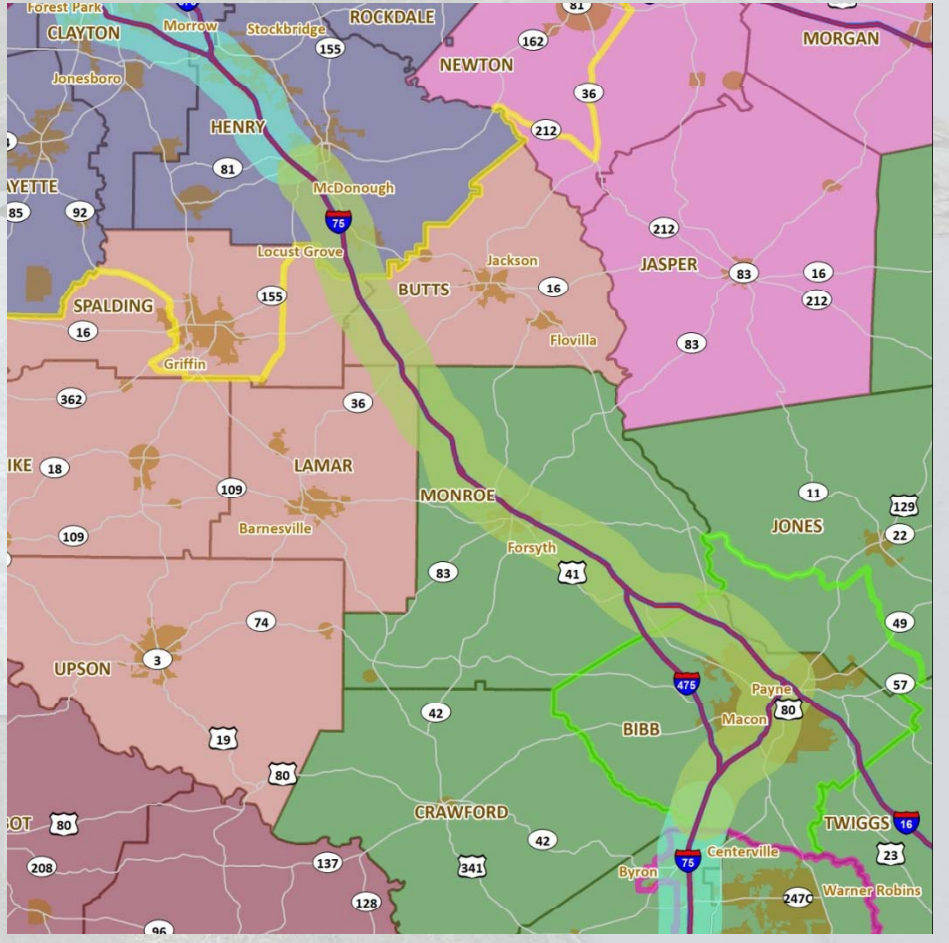
Locations with Frequency of Crashes Above the Statewide Average (2007-2009)



Existing Conditions: Travel Demand

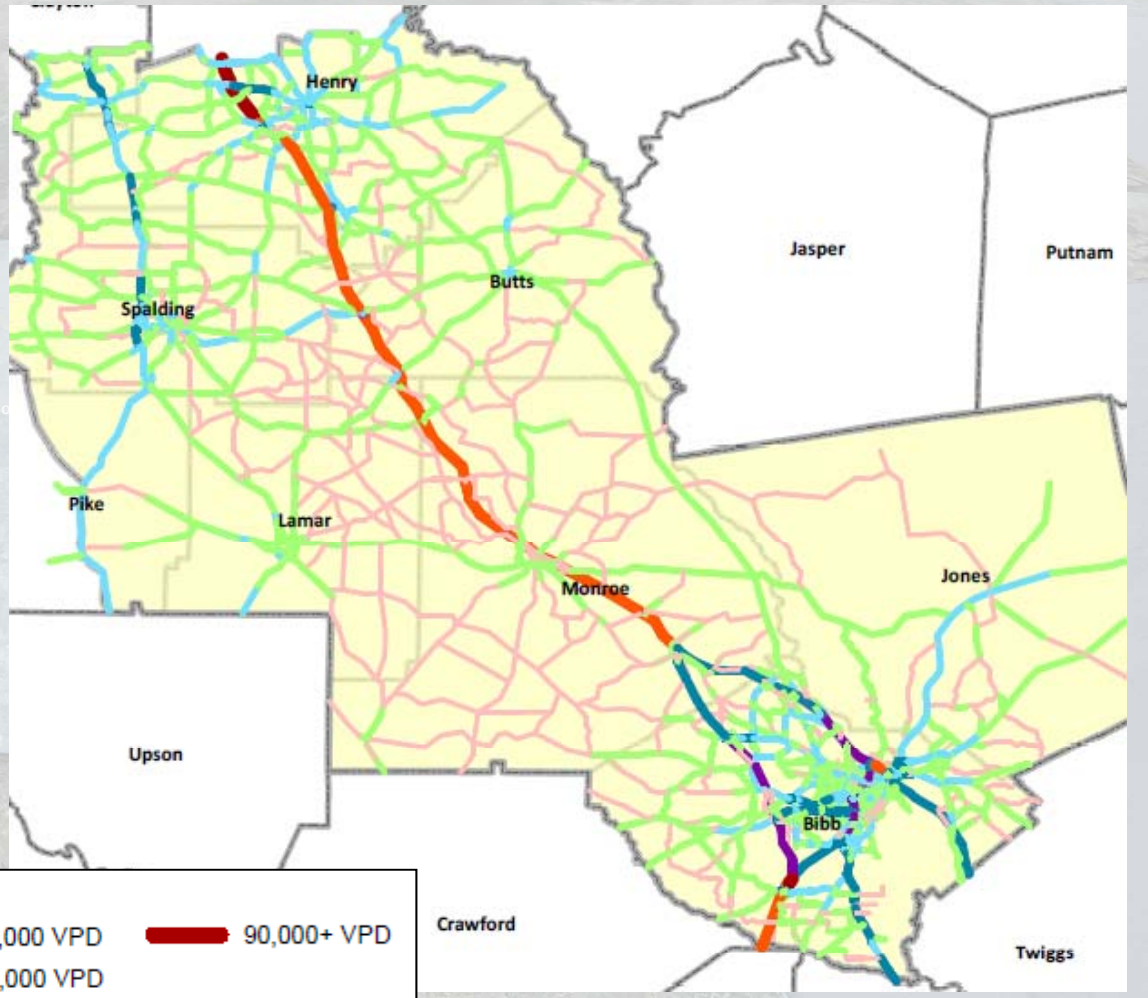
Travel Demand Modeling

- **Combined Data from Three Models:**
  - **ARC Model**
  - **MATS Model**
  - **GDOT Statewide Model**



Existing Conditions: Travel Demand

2010 Traffic Volumes



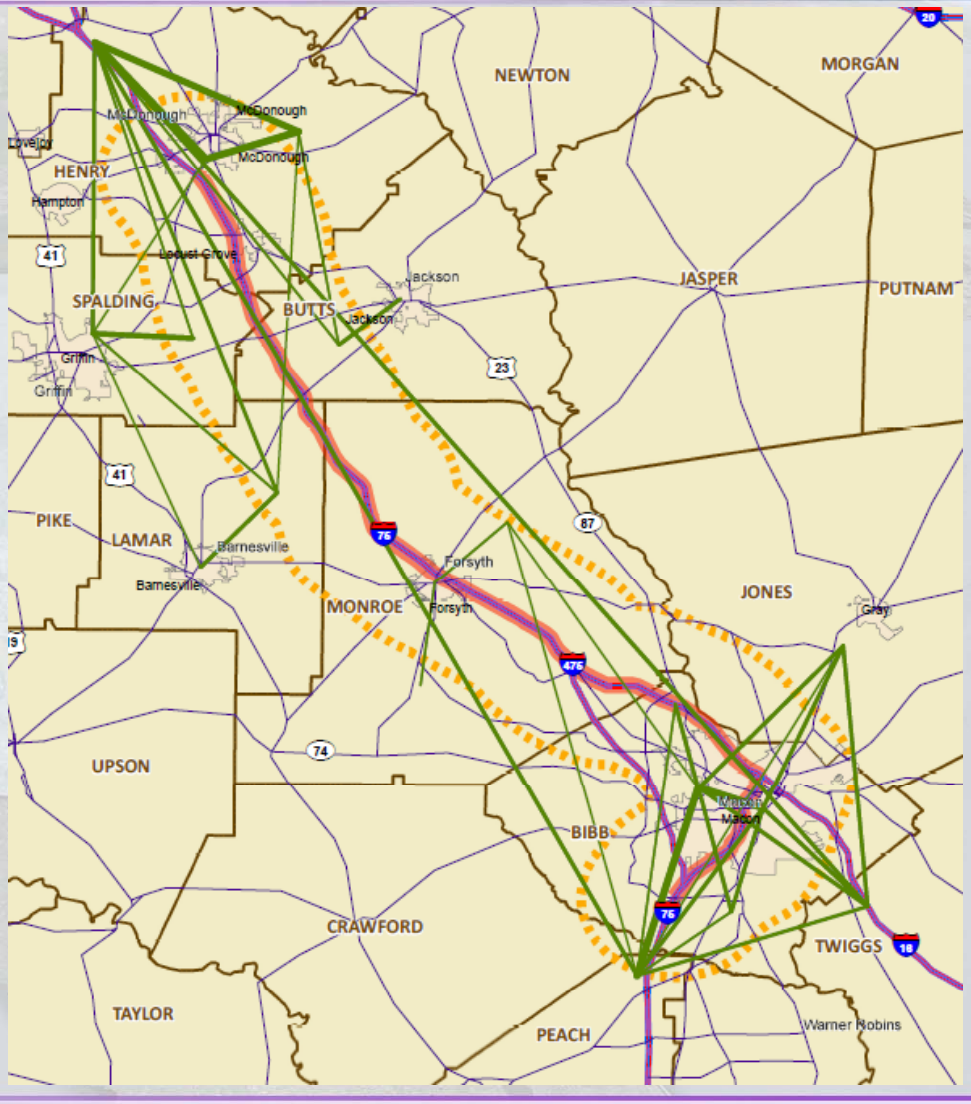
(Total Vehicles Per Day - VPD)

- 0 - 2,500 VPD
- 2,500 - 10,000 VPD
- 10,000 - 25,000 VPD
- 25,000 - 50,000 VPD
- 50,000 - 70,000 VPD
- 60,000 - 90,000 VPD
- 90,000+ VPD

Existing Conditions: Travel Demand

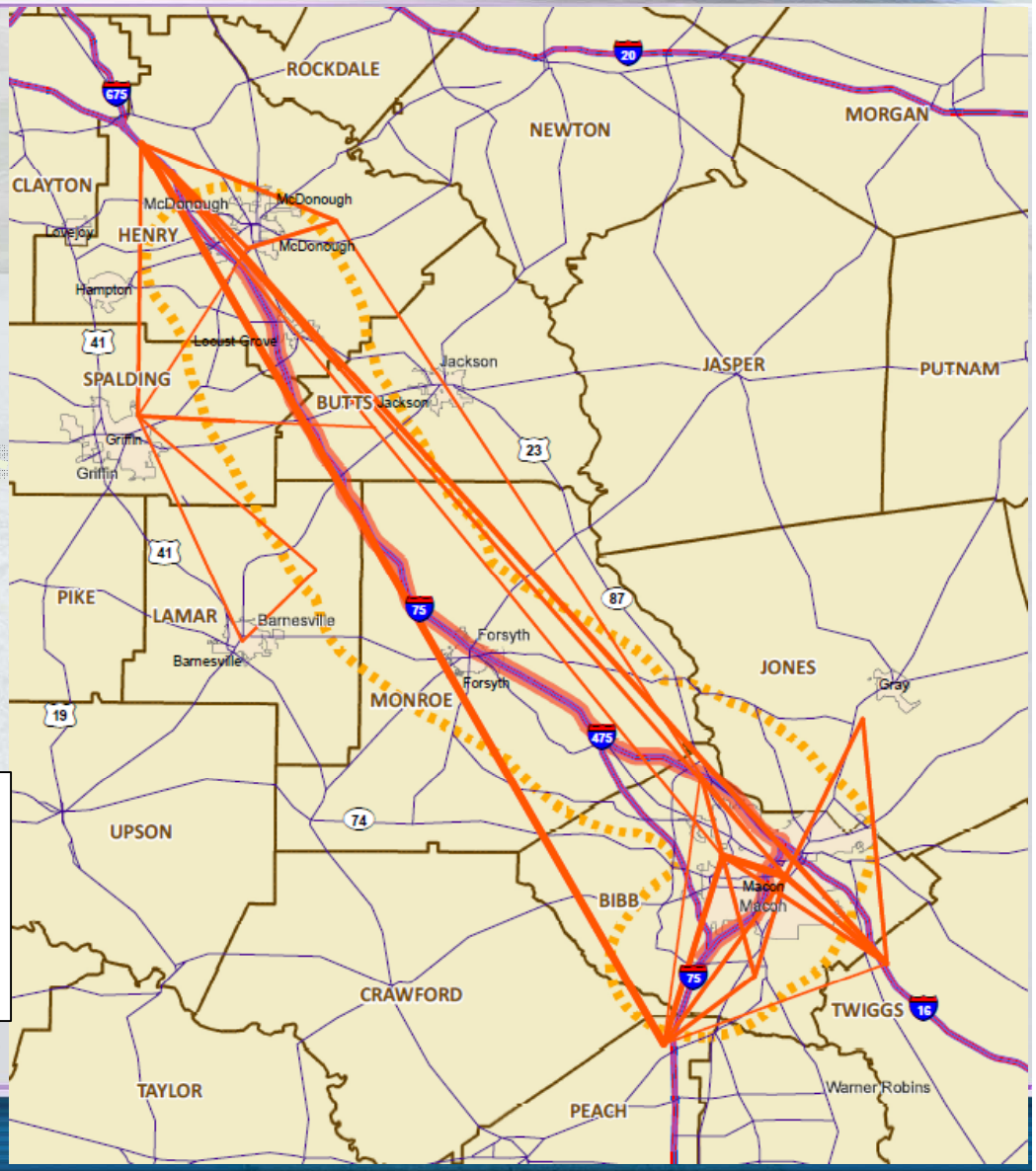
2010 Passenger Car Bandwidth Ranges (vehicles/day)

- 2,000 – 5,000
- 5,000 – 15,000
- 15,001 – 20,000
- 20,001 – 45,000



Existing Conditions: Travel Demand

2010 Truck Bandwidth Ranges (vehicles/day)



250 – 750

751 – 2,000

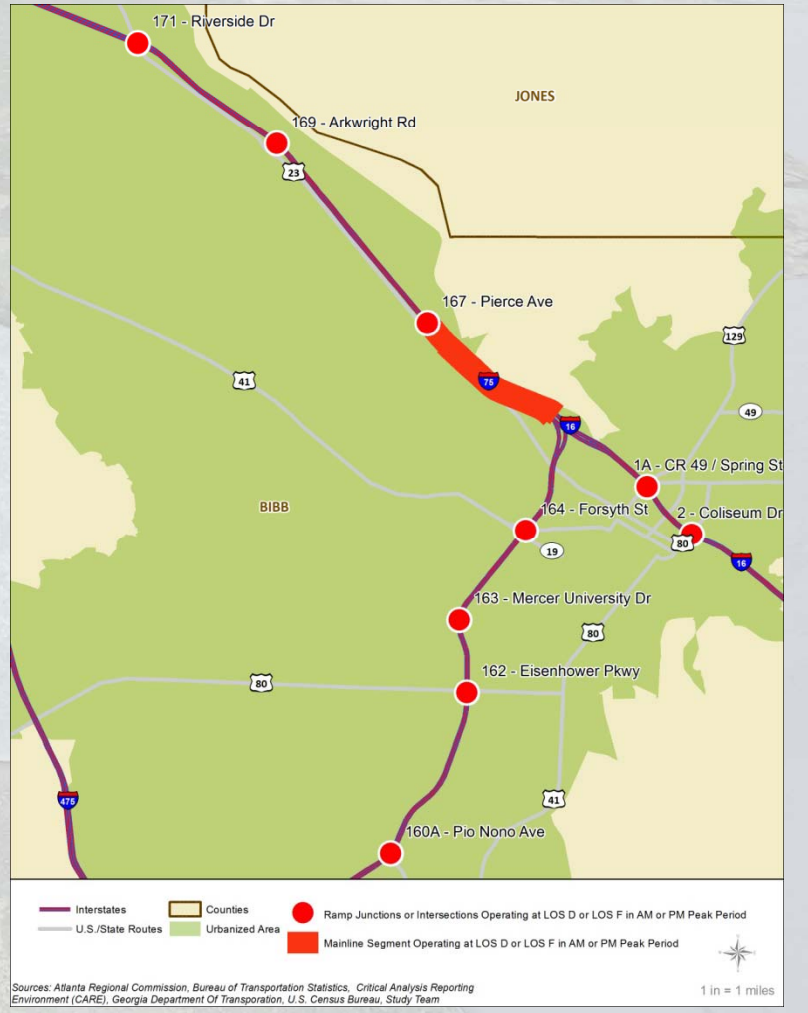
2,001 – 3,500

3,501 – 7,000

Existing Conditions: Operations

2012 Peak Hour Operational Analysis

- Used Counts Collected April 2012
- AM Peak: 7:30 to 8:30 am
- PM Peak: 4:45 to 5:45 pm
- Most of Corridor Operates at LOS A through LOS C



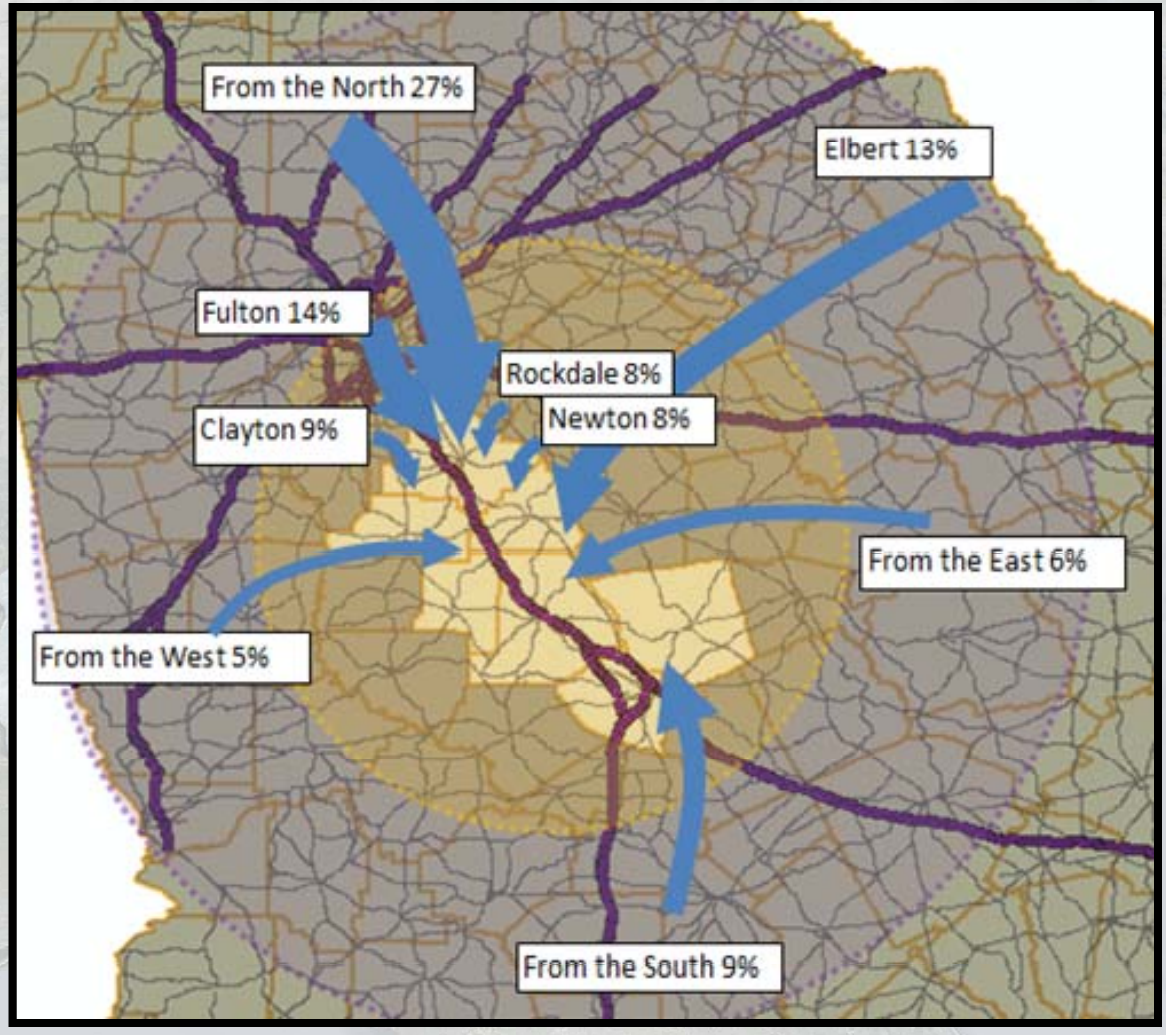
Existing Conditions: Operations

- **Some Segments/Intersections are Operating at LOS D or LOS F in AM or PM Peak Period:**
  - **Two (2) Mainline Segments**
  - **Four (4) Ramp Junctions**
  - **Four (4) Signalized Ramps**
  - **Seven (7) Unsignalized Ramps**

Mainline Segments	Ramp Junctions	Signalized Control	Unsignalized Control
I-75 NB between I-16 & Pierce	I-75 Off-Ramp @ Mercer Univ. Dr.	CR 49/Spring St @ I-16 SB Ramps	Pio Nono Ave @ I-75 NB Ramps
	I-75 NB Off-Ramp @ Pierce Ave	Eisenhower Pkwy @ I-75 SB Ramps	Mercer Univ. Dr @ I-75 SB Ramps
			Pierce Ave @ I-75 SB Off-Ramp
I-75 SB between I-16 & Pierce	I-75 NB Off-Ramp @ Arkwright Rd	Forsyth St @ I-75 NB Ramps	Arkwright Rd @ I-75 SB Ramps
			Riverside Dr @ I-75 SB Ramps
	I-75 SB On-Ramp @ Arkwright Rd	Pierce Ave @ I-75 NB Ramps/Riverside Dr	Riverside Dr @ I-75 NB Ramps
			Coliseum Dr @ I-16 NB Ramps

Existing Conditions: Truck

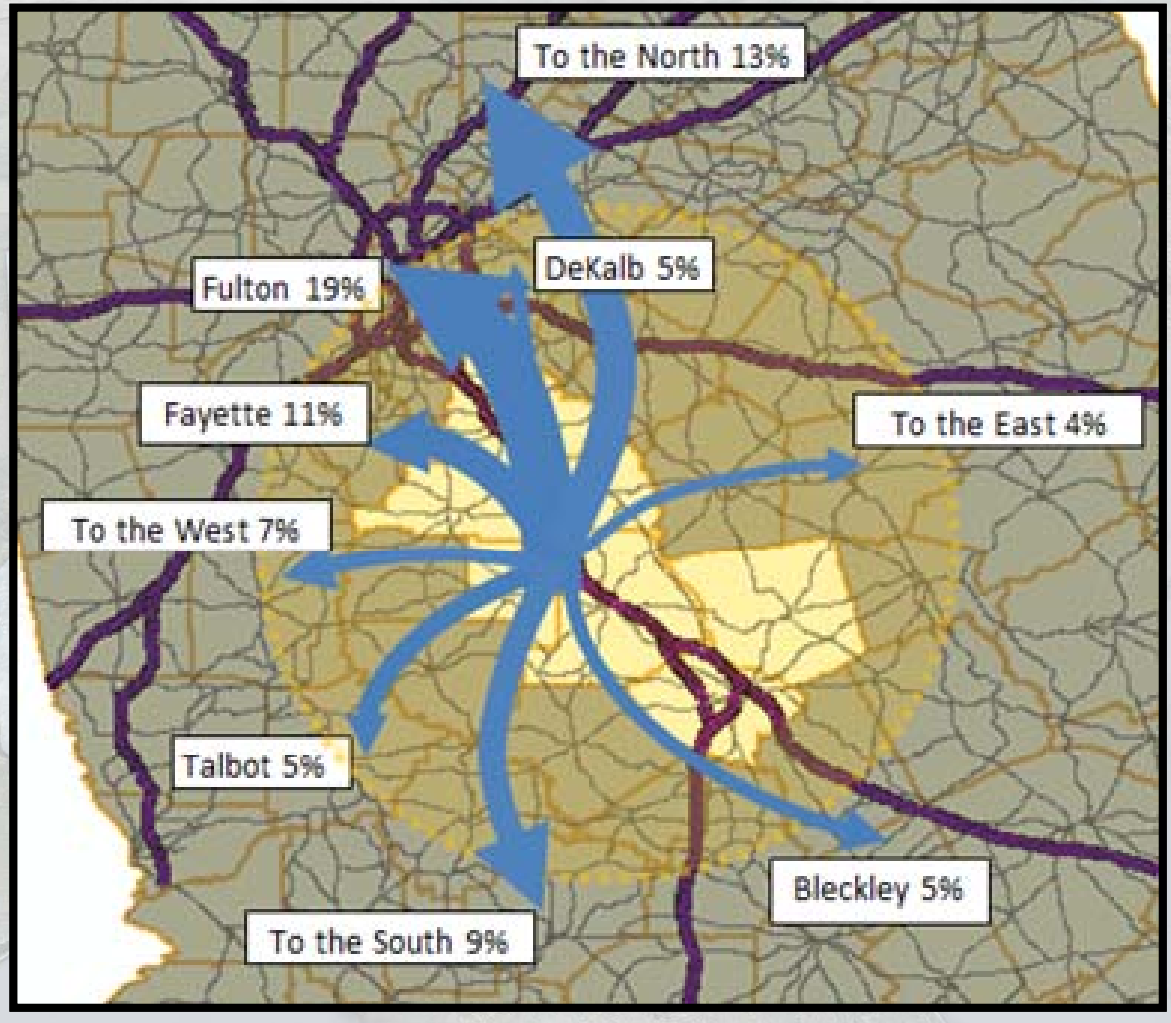
Inbound Truck Flow from Study Area



Source: Transearch 2007

Existing Conditions: Truck

Outbound Truck Flow from Study Area



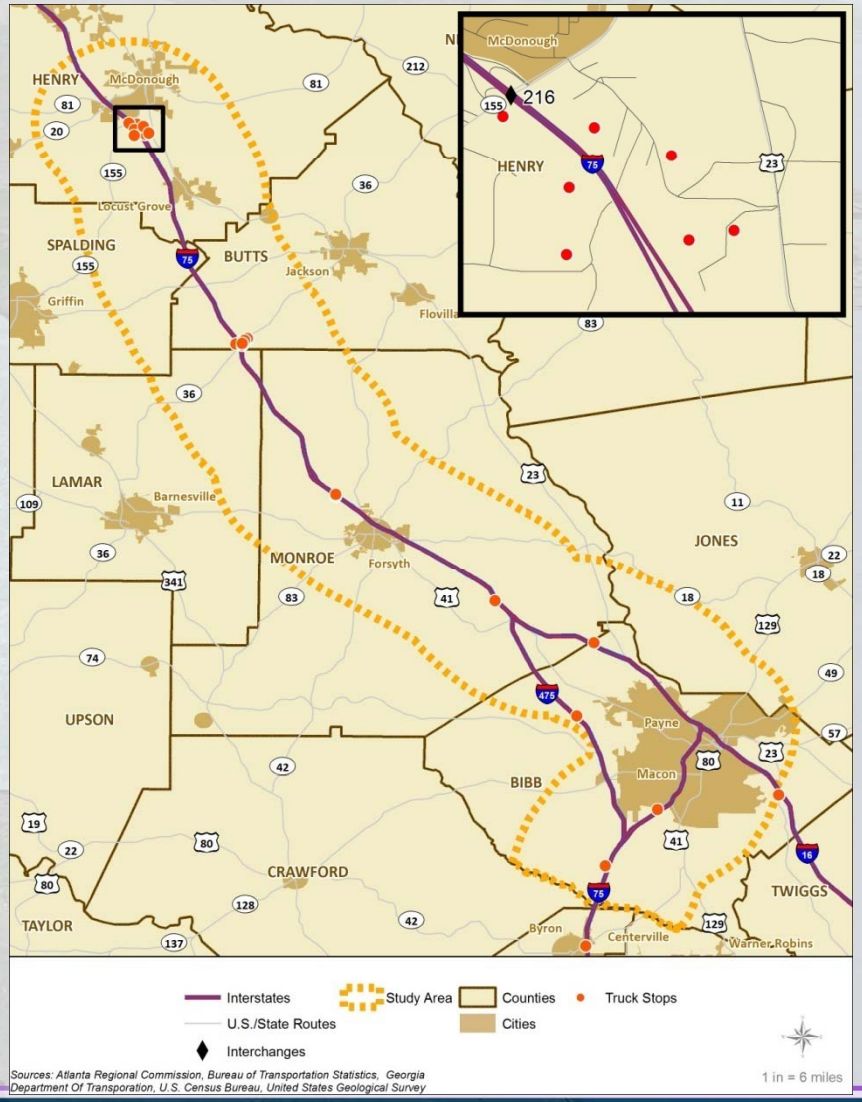
Source:
Transearch 2007

Existing Conditions: Truck

Truck Stops and Rest Areas

- **Includes:**
  - Rest Stop (1)
  - Transfer (1)
  - Truck Dealer (1)
  - Plant (3)
  - Truck Stop (4)
  - Weigh Station (3)
  - Warehouse (7)

- **Concentrated at:**
  - Exit 201 (SR 36)
  - Exit 216 (SR 155)

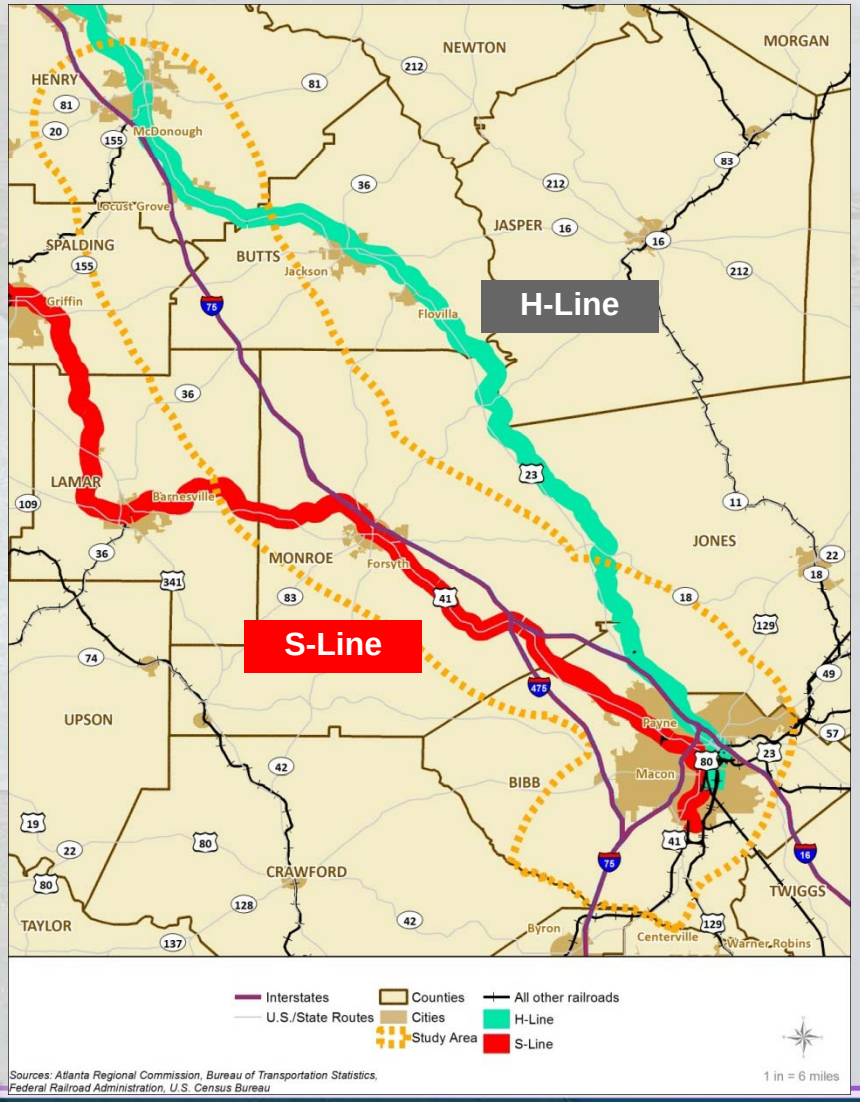


Existing Conditions: Rail

Rail Locations

Two Norfolk-Southern Rail Lines Run through Study Area:

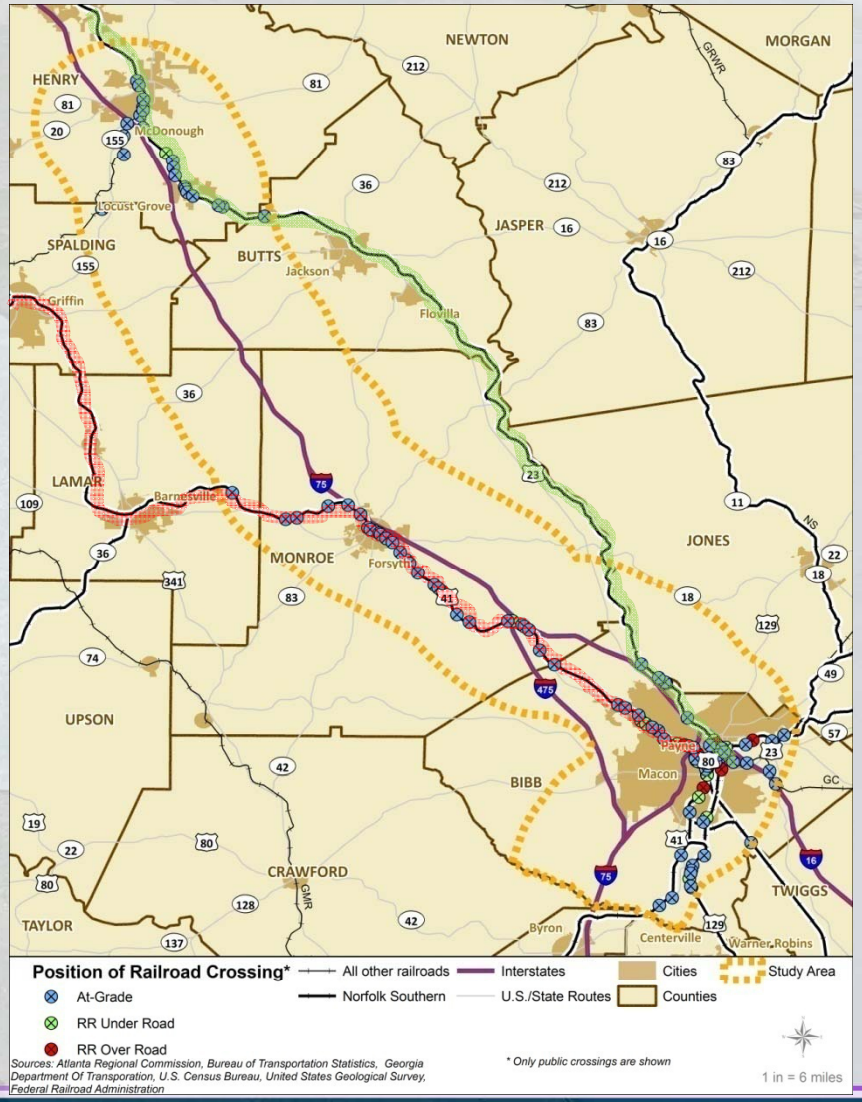
- **Norfolk-Southern H-Line:** High Density Freight Corridor, Including Handling Freight Related to Port of Savannah and Freight To/From Florida
- **Norfolk-Southern S-Line:** Lower Density Freight Corridor



Existing Conditions: Rail

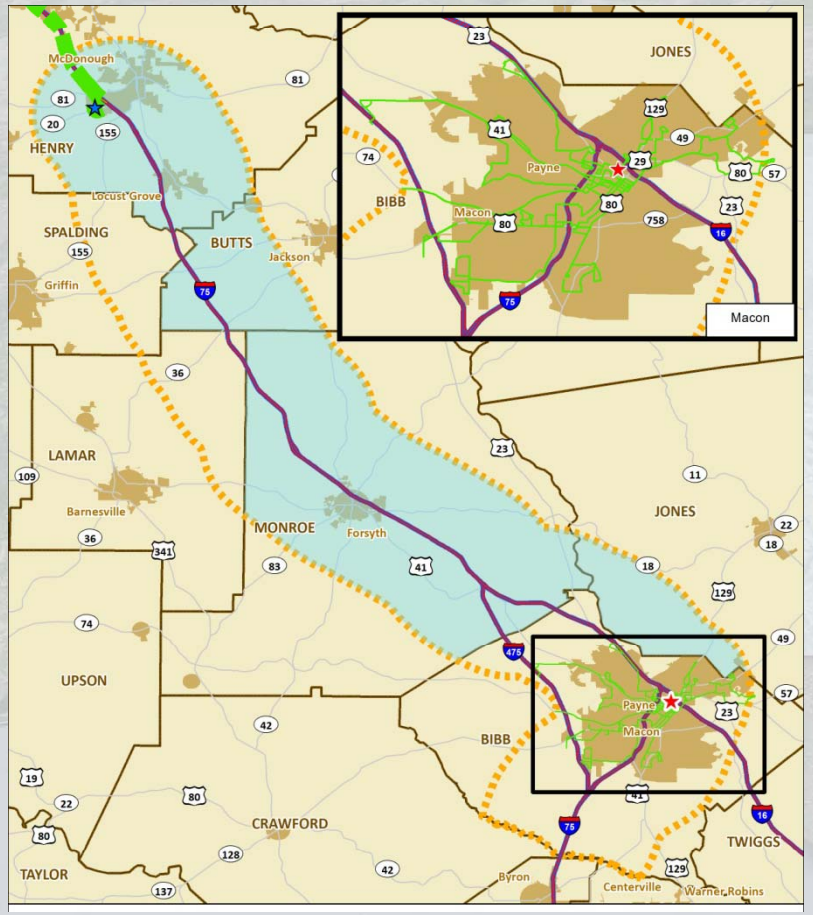
Rail Crossing Locations

- **Significant Number of Public Grade Crossings (159):**
  - At Grade (121)
  - Under Road (24)
  - Over Road (14)
- **Concentrated Along Norfolk-Southern S-Line**

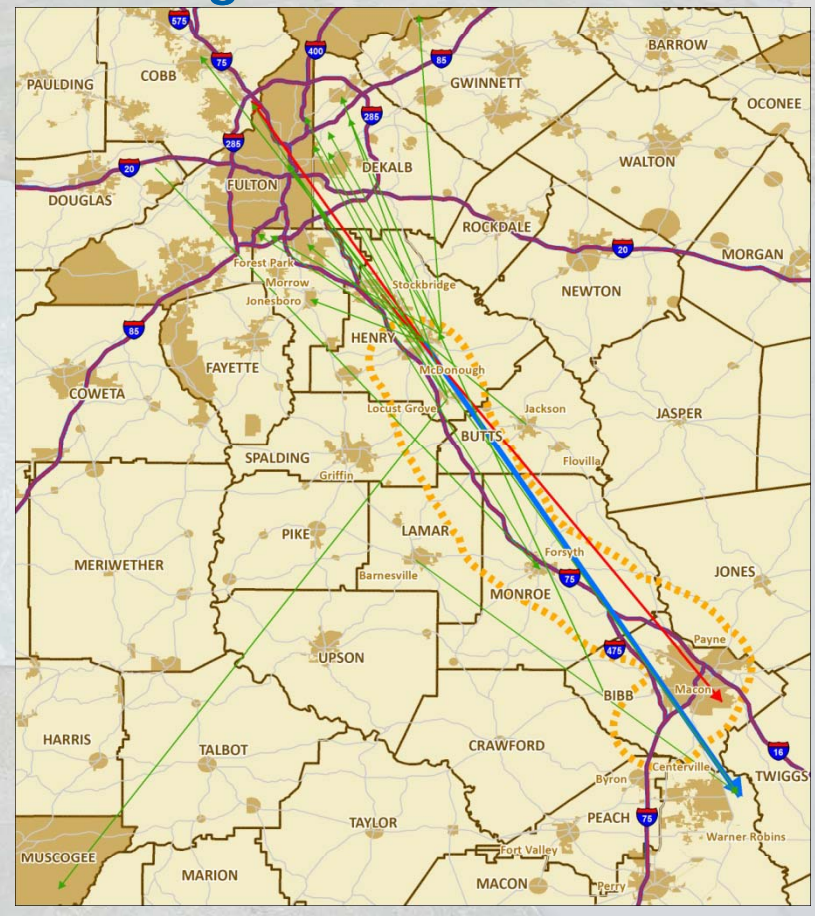


Existing Conditions: Transit

Public Transit Routes



Publicly-Subsidized Vanpools
Origins & Destinations



Existing Land Use

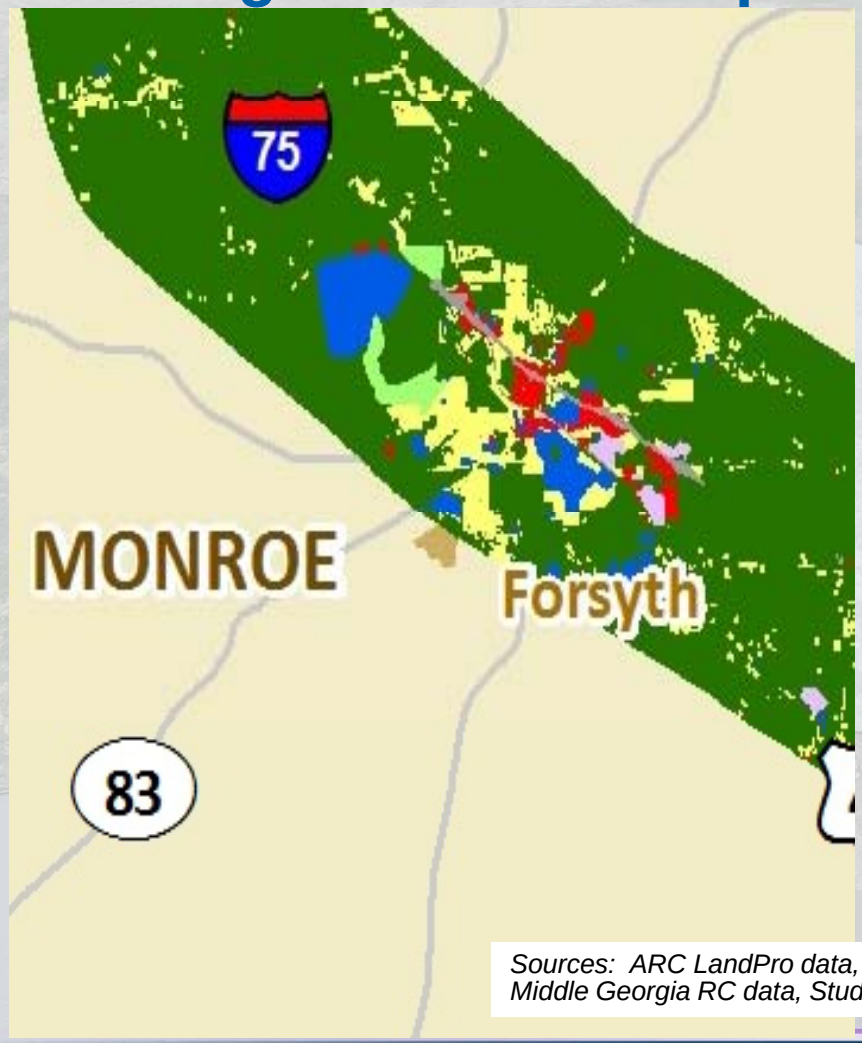
- **Land Use Mapping Methodology: Existing Land Use**
  - **Map created from a simplified palette of eight (8) existing land use categories:**
    - Single Family Residential
    - Multi-Family Residential
    - Public-Institutional
    - Commercial
    - Industrial
    - Park-Recreation-Conservation
    - Agriculture-Forestry-Open Space
    - Transportation-Communication-Utilities
  - **Compiled from ARC LandPro data, Three Rivers RC data, and Middle Georgia RC data**

Future Land Use

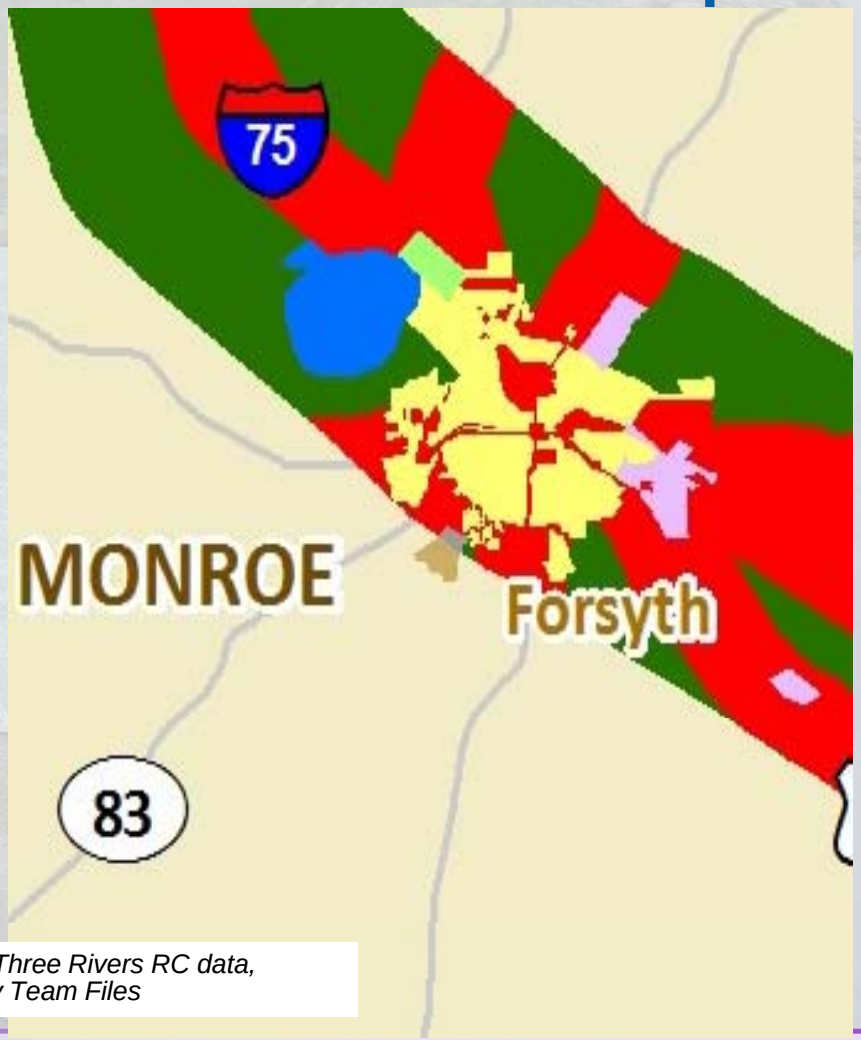
- **Land Use Mapping Methodology: Future Land Use**
  - **Map created from a simplified palette of nine (9) future land use categories:**
    - **Single-Family Residential**
    - **Multi-Family Residential**
    - **Public-Institutional**
    - **Commercial**
    - **Industrial**
    - ***Mixed Use***
    - **Park-Recreation-Conservation**
    - **Agriculture-Forestry-Open Space**
    - **Transportation-Communication-Utilities**
  - **Compiled from Three Rivers RC, Middle Georgia RC, and Study Team Files**
  - **Character areas, where used, were equated to the most likely future land use**

Existing Conditions: Consolidated Land Use Mapping

Existing Land Use Sample



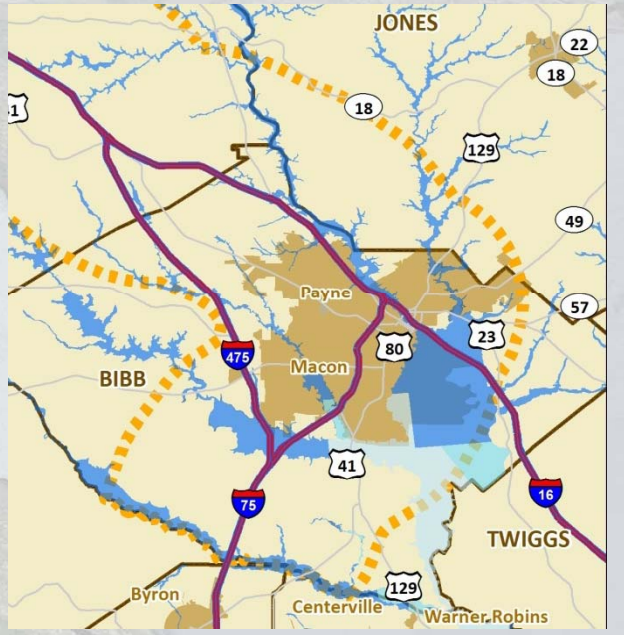
Future Land Use Sample



Sources: ARC LandPro data, Three Rivers RC data, Middle Georgia RC data, Study Team Files

Existing Conditions: Environmental

- **Environmental Screening Purpose:** To Locate Sensitive Areas that May be Impacted by Potential Transportation Projects
- **Types of Resources Identified:**
  - **Wetlands (57 square miles) and Water Bodies (28 miles and 1.28 square miles)**
  - **Historical Sites and Properties (77)**
  - **Public Lands (17.99 acres)**
  - **Churches (192) and Cemeteries (77)**
  - **Archaeologically-Sensitive Areas ***
  - **Potentially Hazardous Sites (366)**
  - **Threatened and Endangered Species ***



*** Specific Location Data Not Available**

Existing and Future Conditions: Population and Employment

Population: Projected to Grow by 49% from 2010 to 2040, with Majority of Growth Concentrated in Spalding, Henry, Clayton

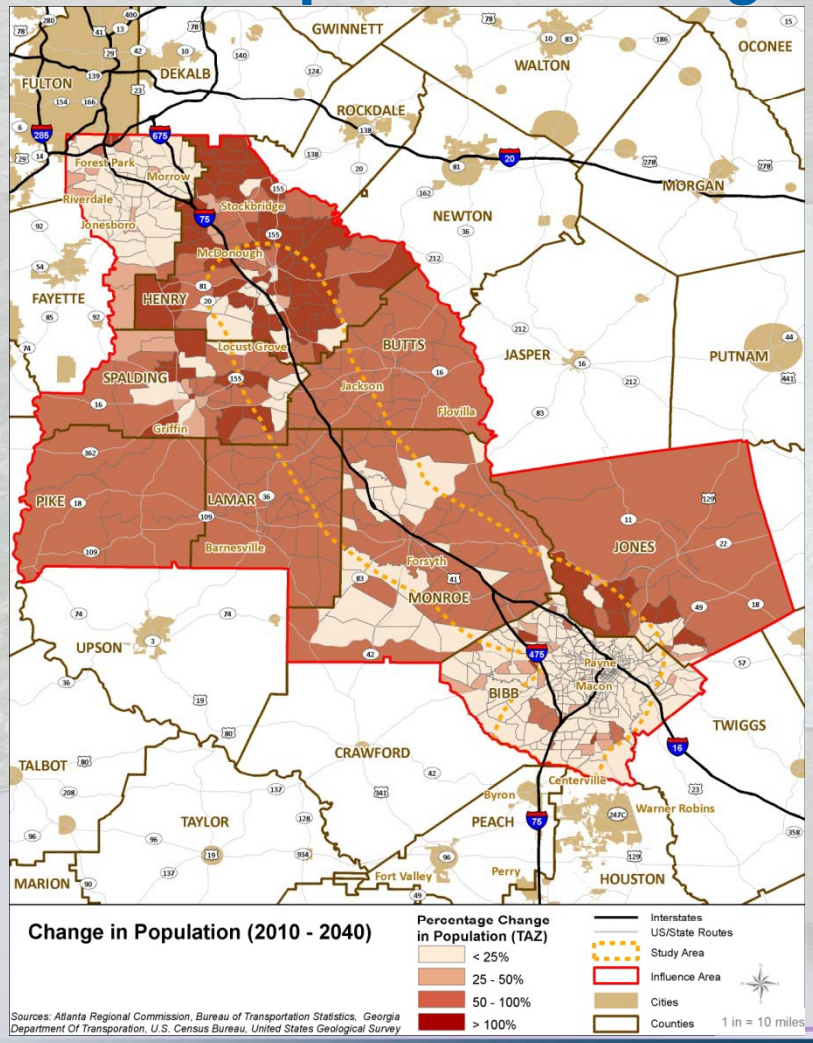
Employment: Projected to Grow by 60% from 2010 to 2040, with Significant Portion in Spalding, Henry, Clayton

Counties	2010		2040		Projected Growth	
	Population	Employment	Population	Employment	Population	Employment
Clayton, Henry & Central Spalding	535,326	179,148	853,808	303,636	**59%**	**69%**
Remainder of Spalding, Butts, Lamar & Monroe	102,340	28,327	165,027	44,050	**61%**	**56%**
Bibb & Jones	168,657	107,070	184,037	156,553	**9%**	**46%**
Total	***806,323***	***314,545***	***460,722***	***504,239***	***49%***	***60%***

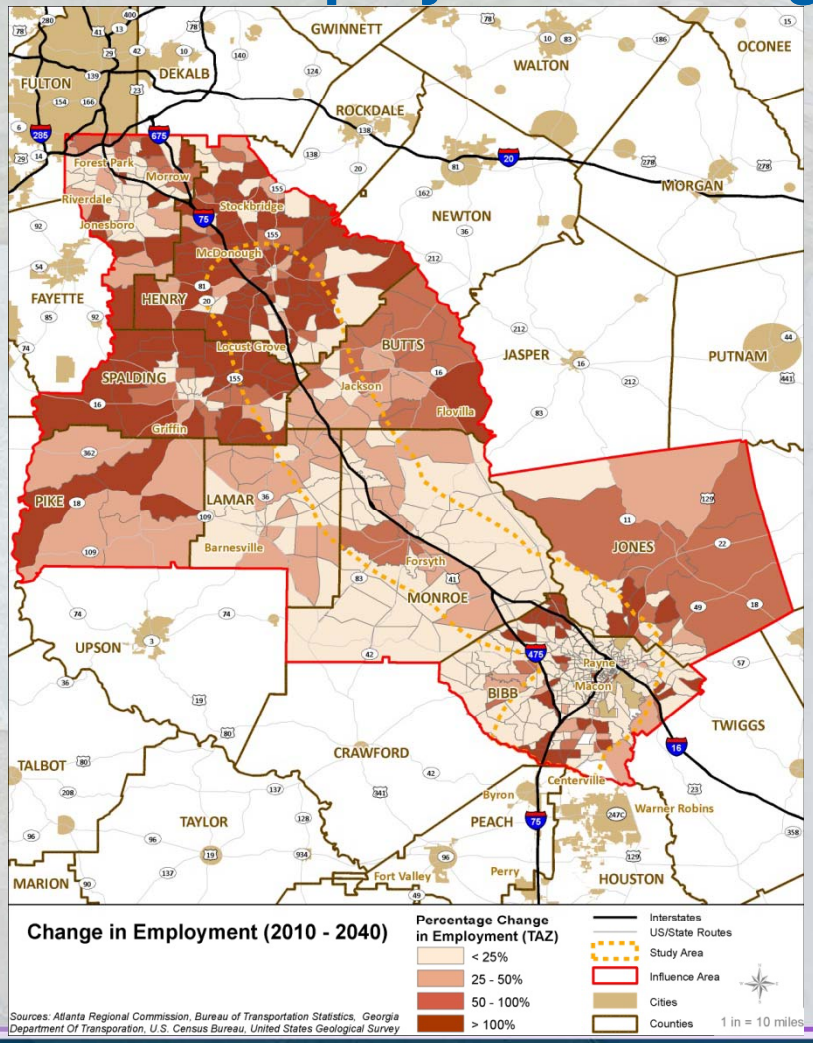
Sources: Atlanta Regional Commission, Bureau of Transportation Statistics, Georgia Department of Transportation, United States Census Bureau, and United States Geologic Survey

Projected Population and Employment Change (2010-2040)

Percent Population Change

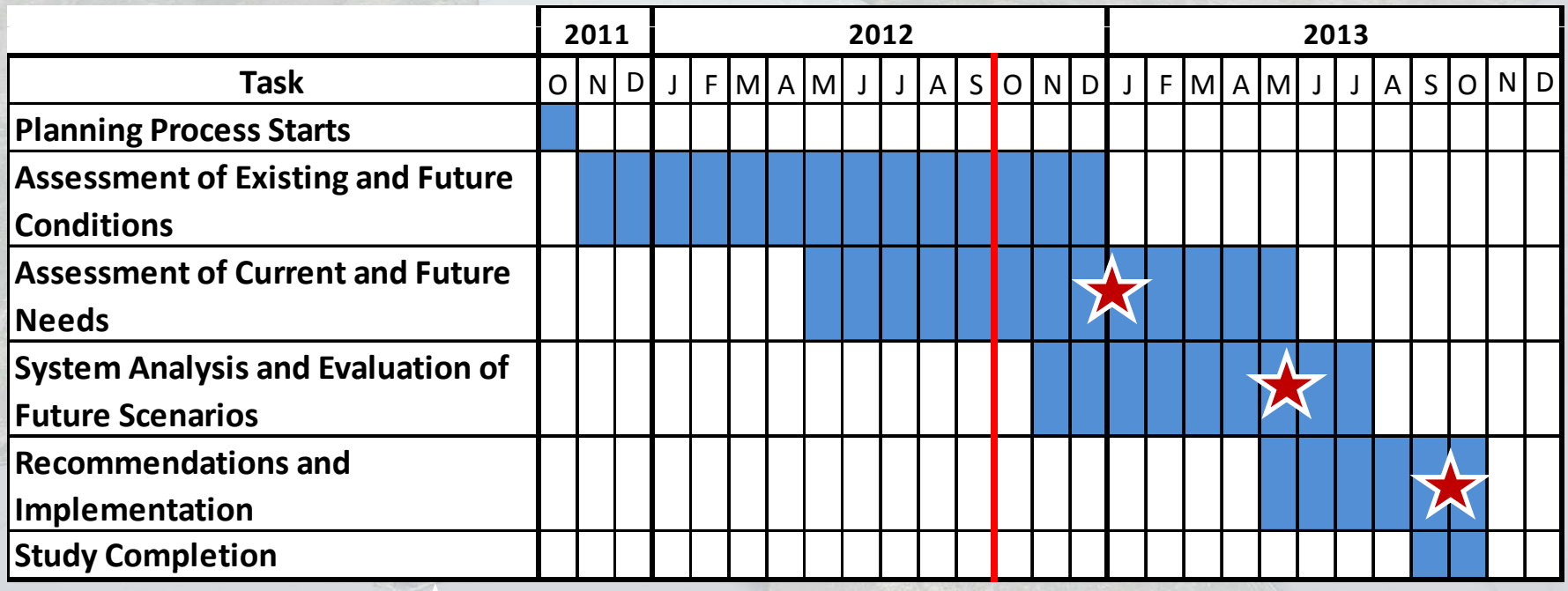


Percent Employment Change



Next Steps – Fall 2012

- Complete Existing and Future Conditions Assessment
- Complete Future Needs Assessment
- Initiate Development of Future Scenarios



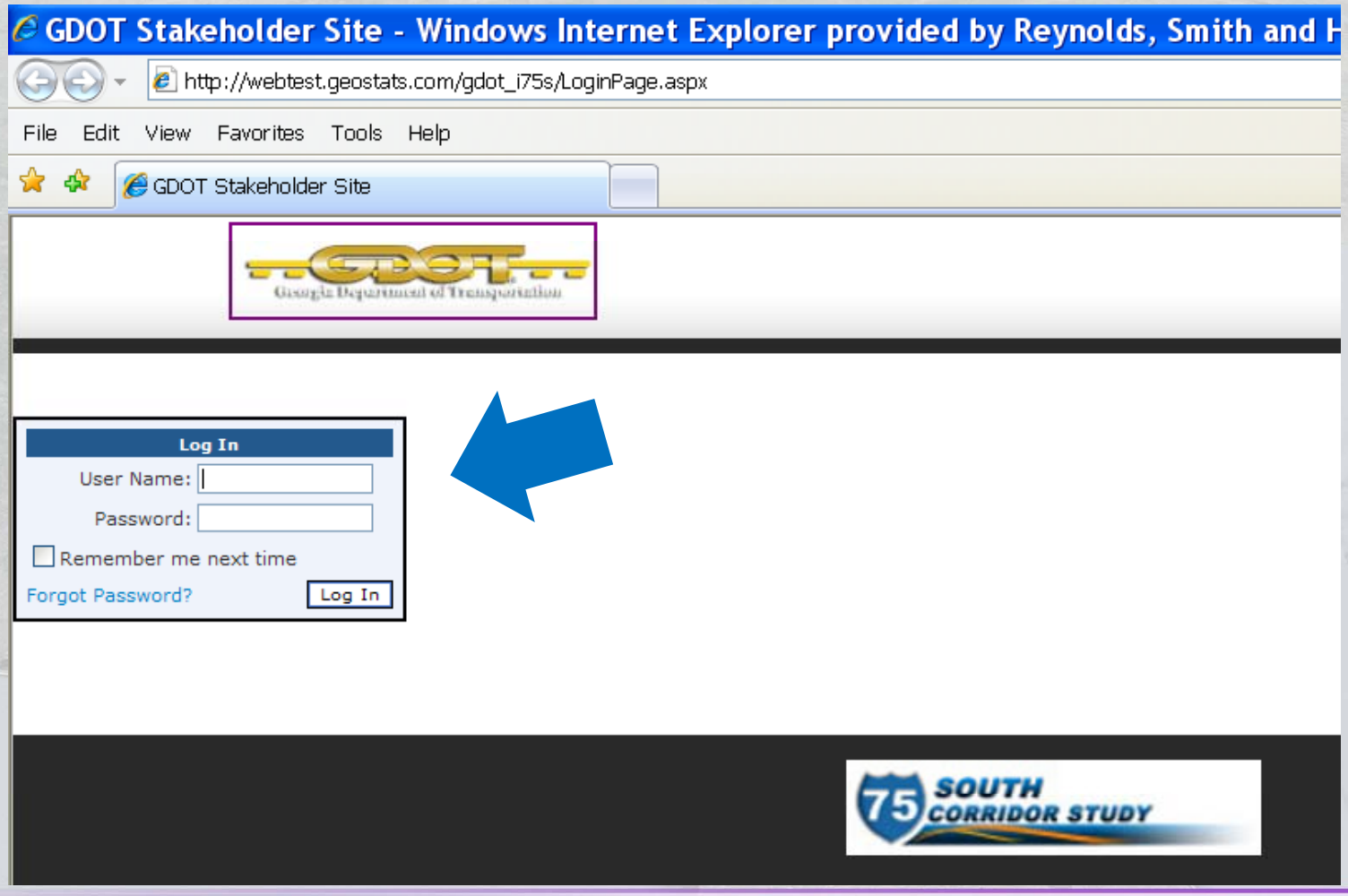
★ Anticipated Future Steering Committee Meetings

Group Discussion

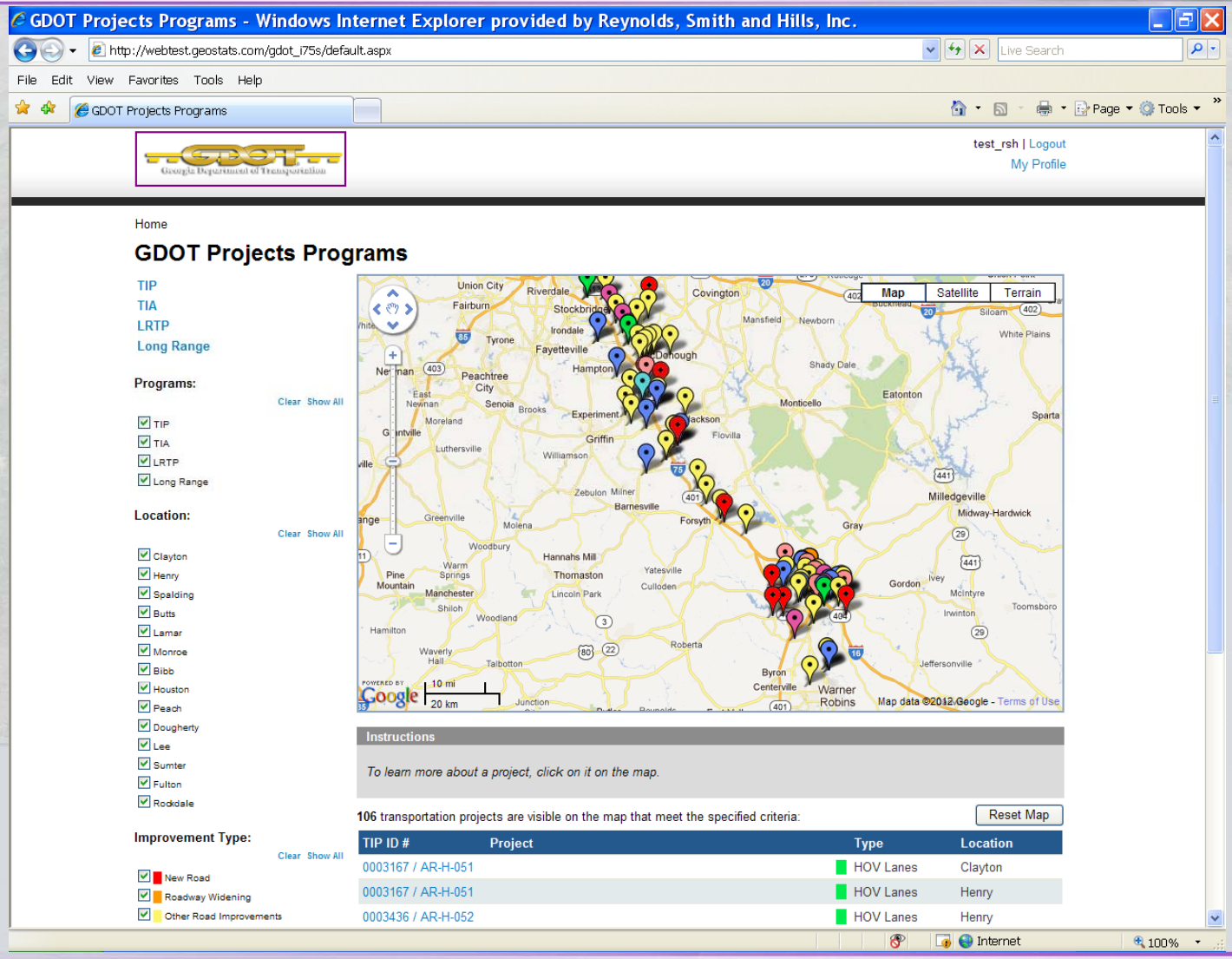
- **Existing Conditions**
- **Stakeholder Identified Issues and Opportunities**

Project Portal Introduction

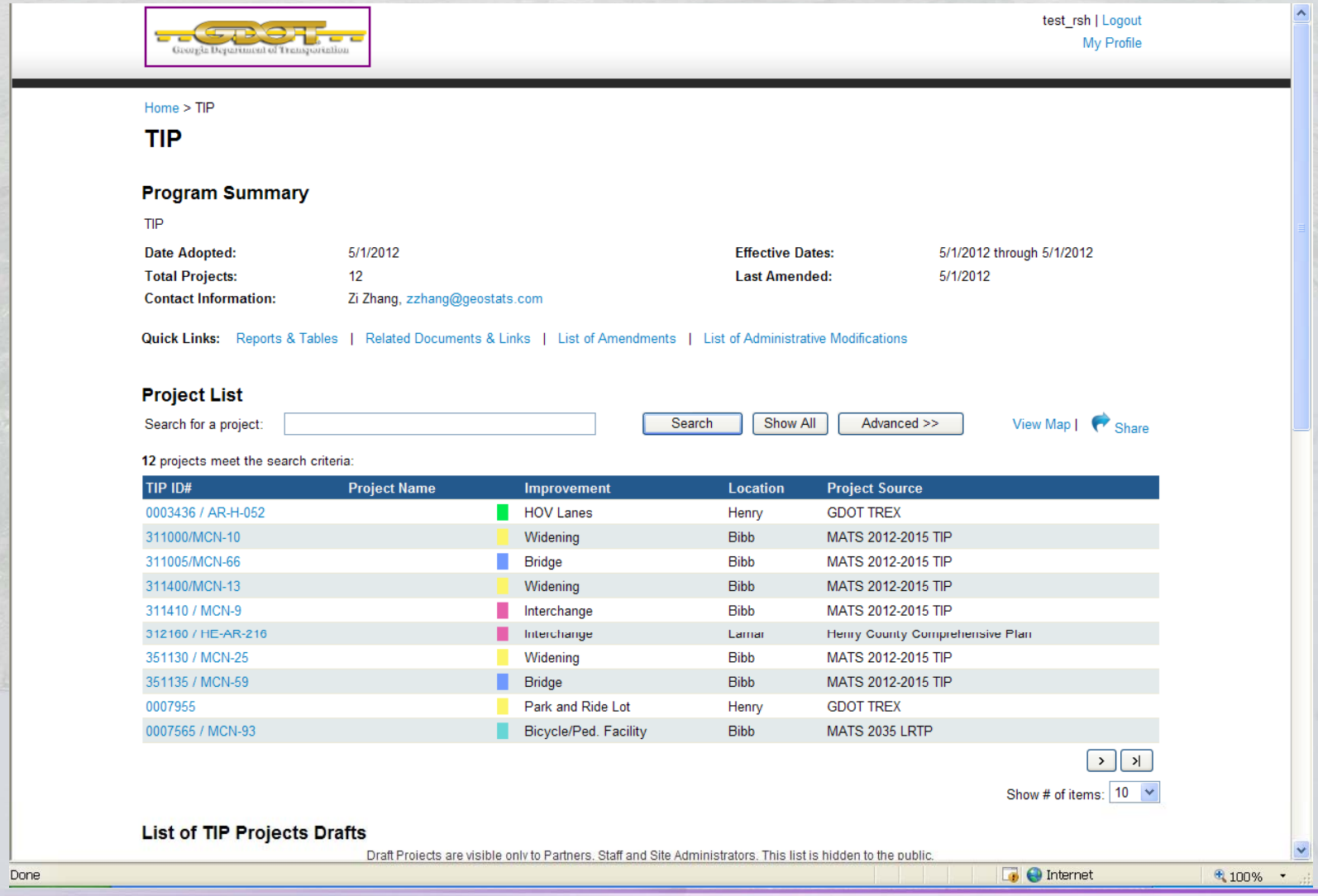
Committee Members to be Assigned User Names and Passwords



Project Portal Introduction



Project Portal Introduction



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Home > TIP

TIP

Program Summary

TIP

Date Adopted:	5/1/2012	**Effective Dates:**	5/1/2012 through 5/1/2012
Total Projects:	12	**Last Amended:**	5/1/2012
Contact Information:	Zi Zhang, zzhang@geostats.com		

Quick Links: Reports & Tables | Related Documents & Links | List of Amendments | List of Administrative Modifications

Project List

Search for a project: Search | Show All | Advanced >> View Map | Share

12 projects meet the search criteria:

TIP ID#	Project Name	Improvement	Location	Project Source
0003436 / AR-H-052		HOV Lanes	Henry	GDOT TREX
311000/MCN-10		Widening	Bibb	MATS 2012-2015 TIP
311005/MCN-66		Bridge	Bibb	MATS 2012-2015 TIP
311400/MCN-13		Widening	Bibb	MATS 2012-2015 TIP
311410 / MCN-9		Interchange	Bibb	MATS 2012-2015 TIP
312160 / HE-AR-216		Interchange	Lamar	Henry County Comprehensive Plan
351130 / MCN-25		Widening	Bibb	MATS 2012-2015 TIP
351135 / MCN-59		Bridge	Bibb	MATS 2012-2015 TIP
0007955		Park and Ride Lot	Henry	GDOT TREX
0007565 / MCN-93		Bicycle/Ped. Facility	Bibb	MATS 2035 LRTP

Show # of items: 10

List of TIP Projects Drafts

Draft Projects are visible only to Partners, Staff and Site Administrators. This list is hidden to the public.

Done | Internet | 100%

Project Portal Introduction

Continuous Opportunities for Input and Comments

Submit a Comment

The Georgia Department of Transportation welcomes your feedback. Please enter your comment below and click Submit. While we review all comments carefully, we are not able to respond to every comment.

Your name:*

Phone #:

Email address:

Your comment:

Please limit your comment to 2,000 characters.

Submit Comment

Thank You for Your Participation!

www.dot.ga.gov/I75South