

Georgia Statewide Transportation Plan/ Statewide Strategic Transportation Plan Update

Presented to:
Stakeholder Advisory Committee

November 6, 2013, Meeting #2



Agenda

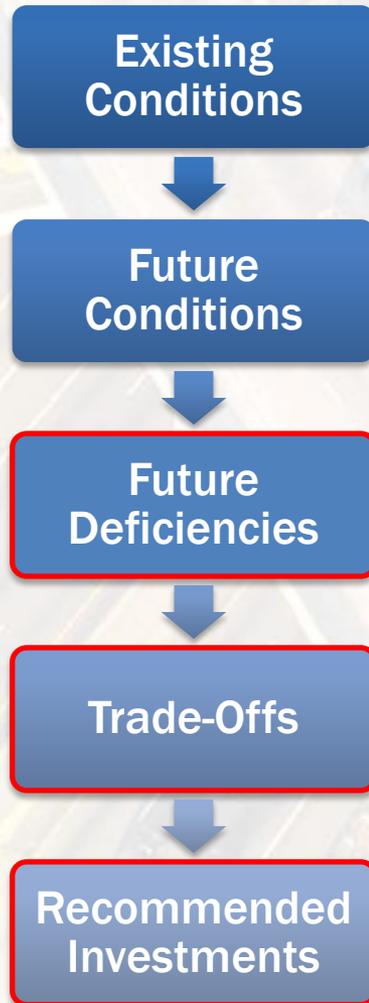
- **Welcome – Kelly Gwin (GDOT)**
- **Project Overview – Kelly Gwin (GDOT)**
- **Existing Conditions Summary – Marc Cutler (CS)**
- **Economic & Financial Forecasts – Tracy Selin (CS)**
- **Outreach – Jamie Cochran (GSP)**
- **Next Steps – Kelly Gwin (GDOT)**

Purpose of the Statewide Plan Update



- **Combine elements of a traditional, statewide long-range transportation plan with business case for transportation**
- **Reflect changes in planning context since 2005 Statewide Transportation Plan (SWTP) and 2010 Statewide Strategic Transportation Plan (SSTP)**
 - Transportation Investment Act (TIA)
 - MAP-21
 - Revenue updates
 - Other studies

Plan Development Schedule



- I. Document existing conditions across all modes – November 2013
- II. Forecast future conditions for year 2040 – December 2013
- III. Assess future deficiencies across all modes – April 2014
- IV. Develop program-level tradeoff analysis to inform funding decisions – June 2014
- V. Prepare investment recommendations and final report – 2015

Existing Conditions

Modes

Highway

Transit

Air

Rail

Water/Freight

Bicycle and Pedestrian

Attributes

Inventory of Facilities

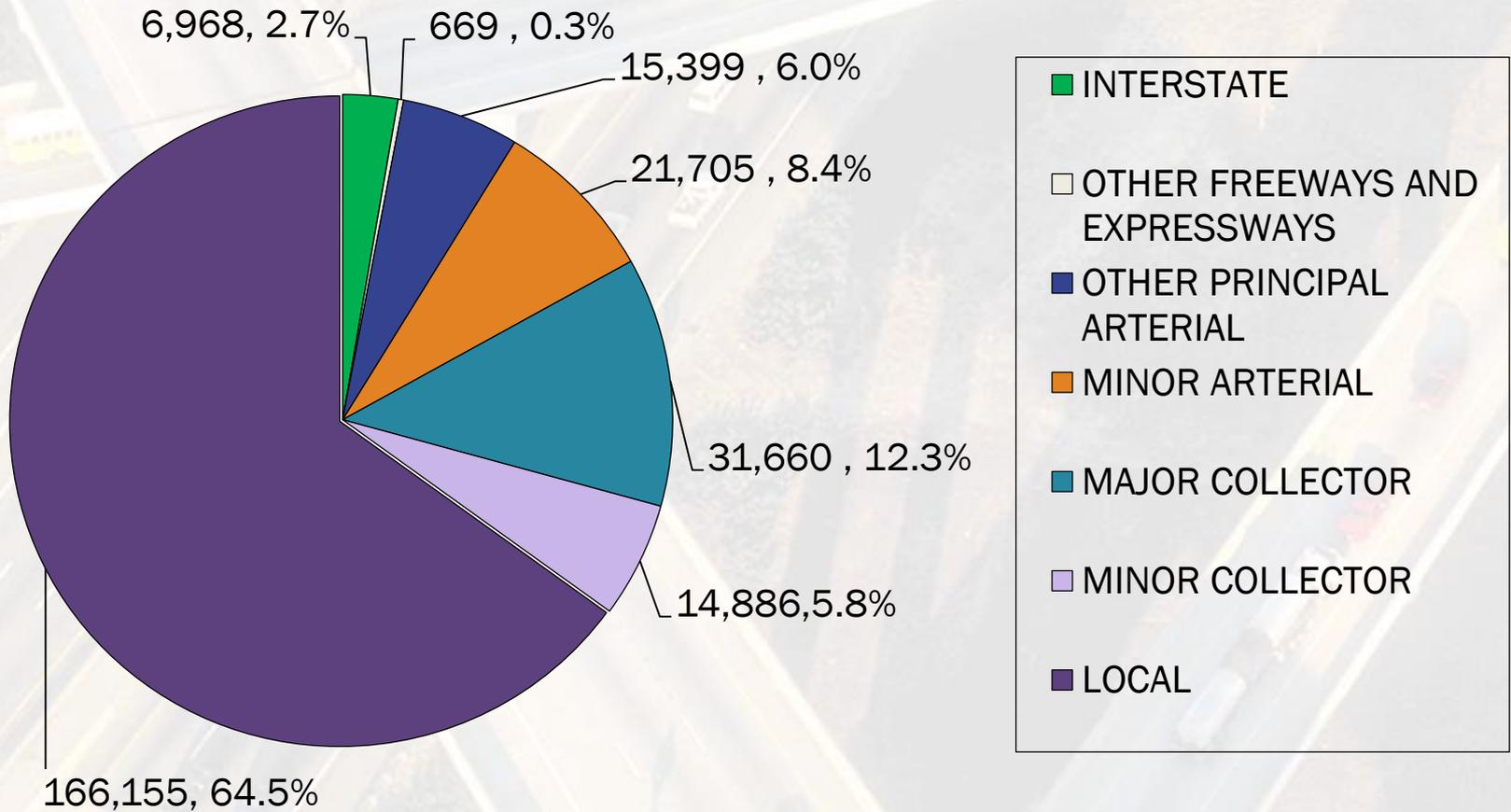
Capacity

Use

Performance

Major Issues/Deficiencies

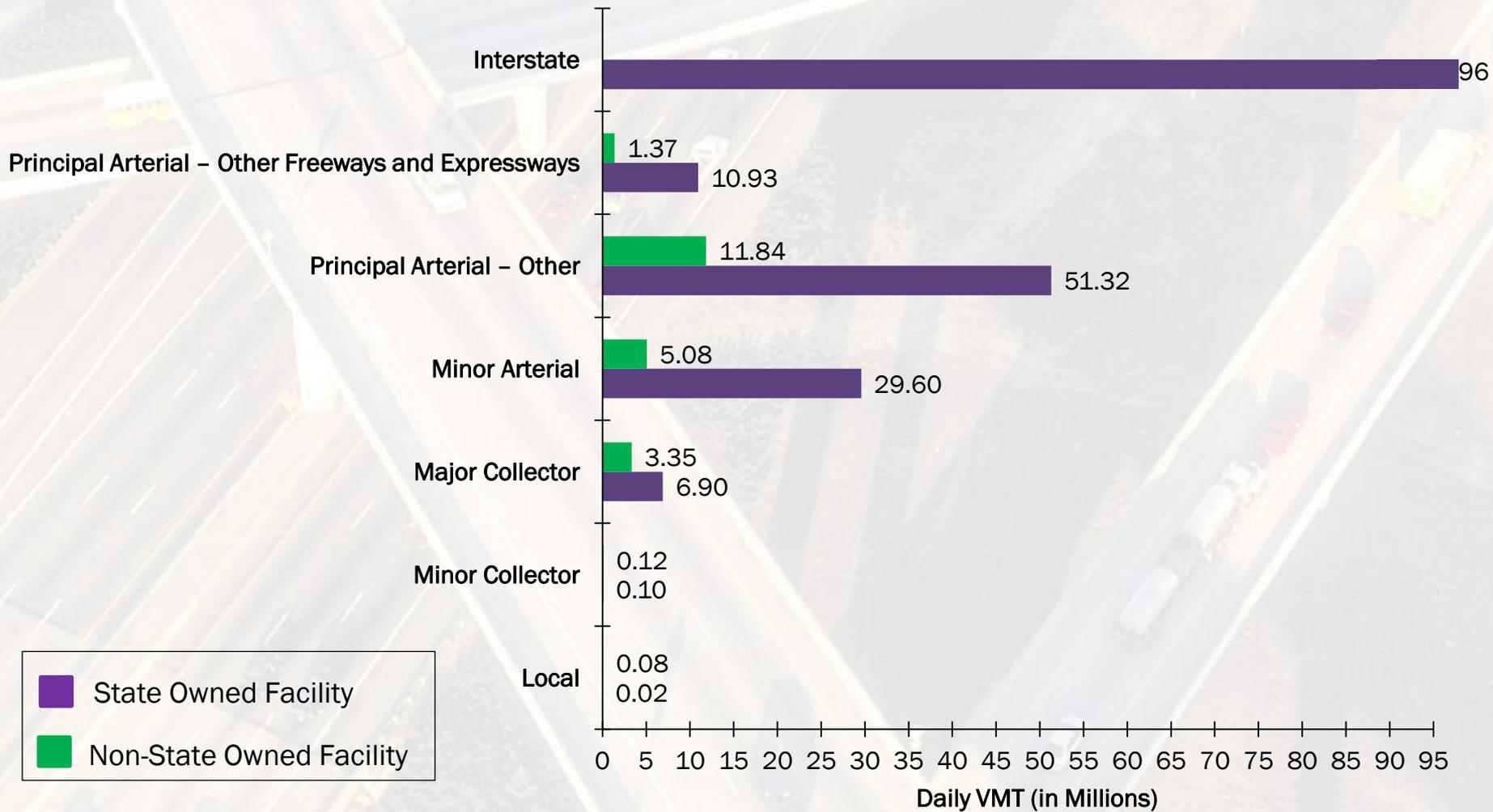
Highway Lane-Miles



Total Lane Miles: 256,842

Source: GDOT Office of Transportation Data.

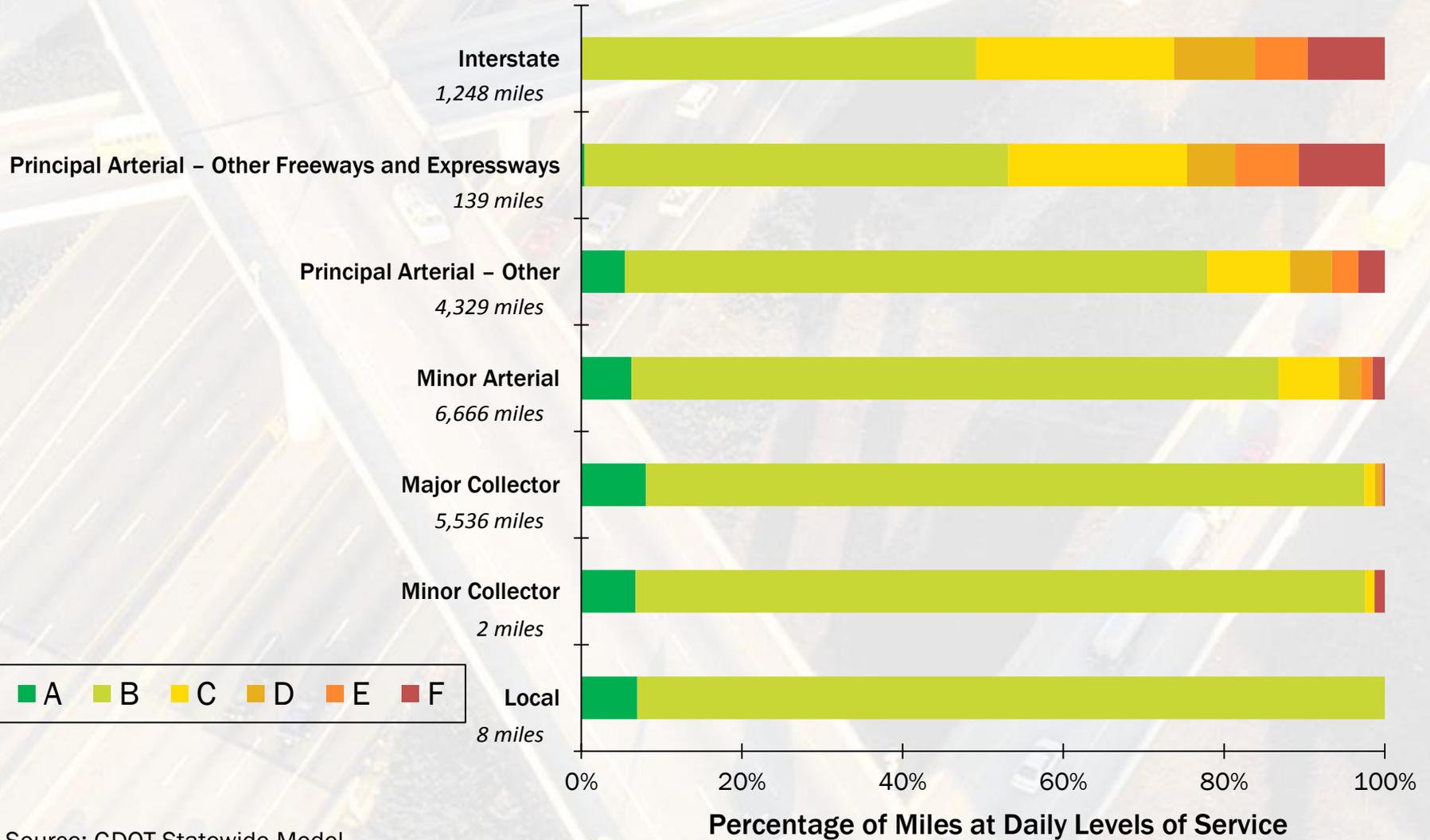
Daily Vehicle-Miles Traveled



Source : GDOT Statewide Model.

Congestion: Percentage of Miles

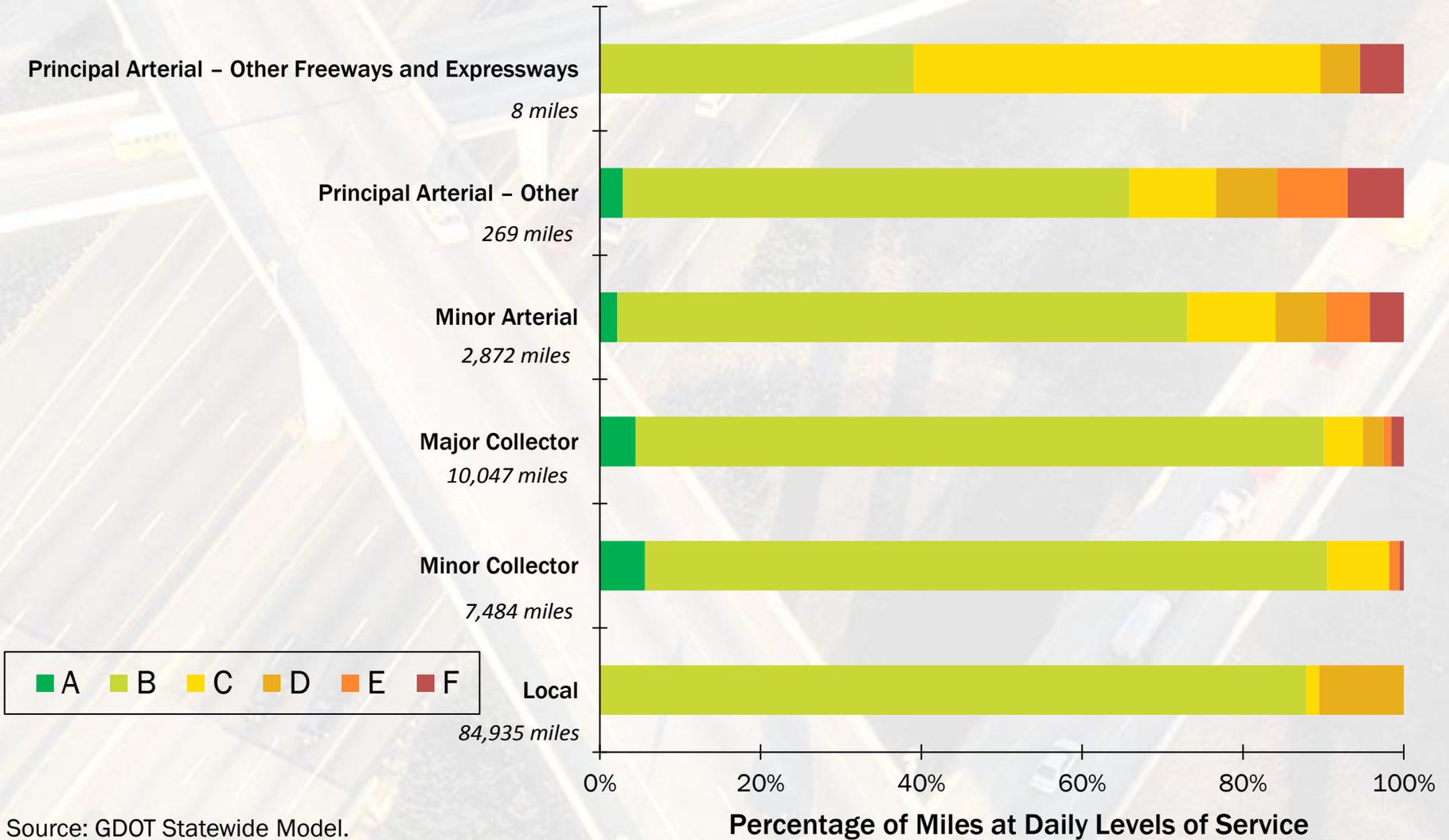
State-Owned Urban and Rural Roads



Source: GDOT Statewide Model.

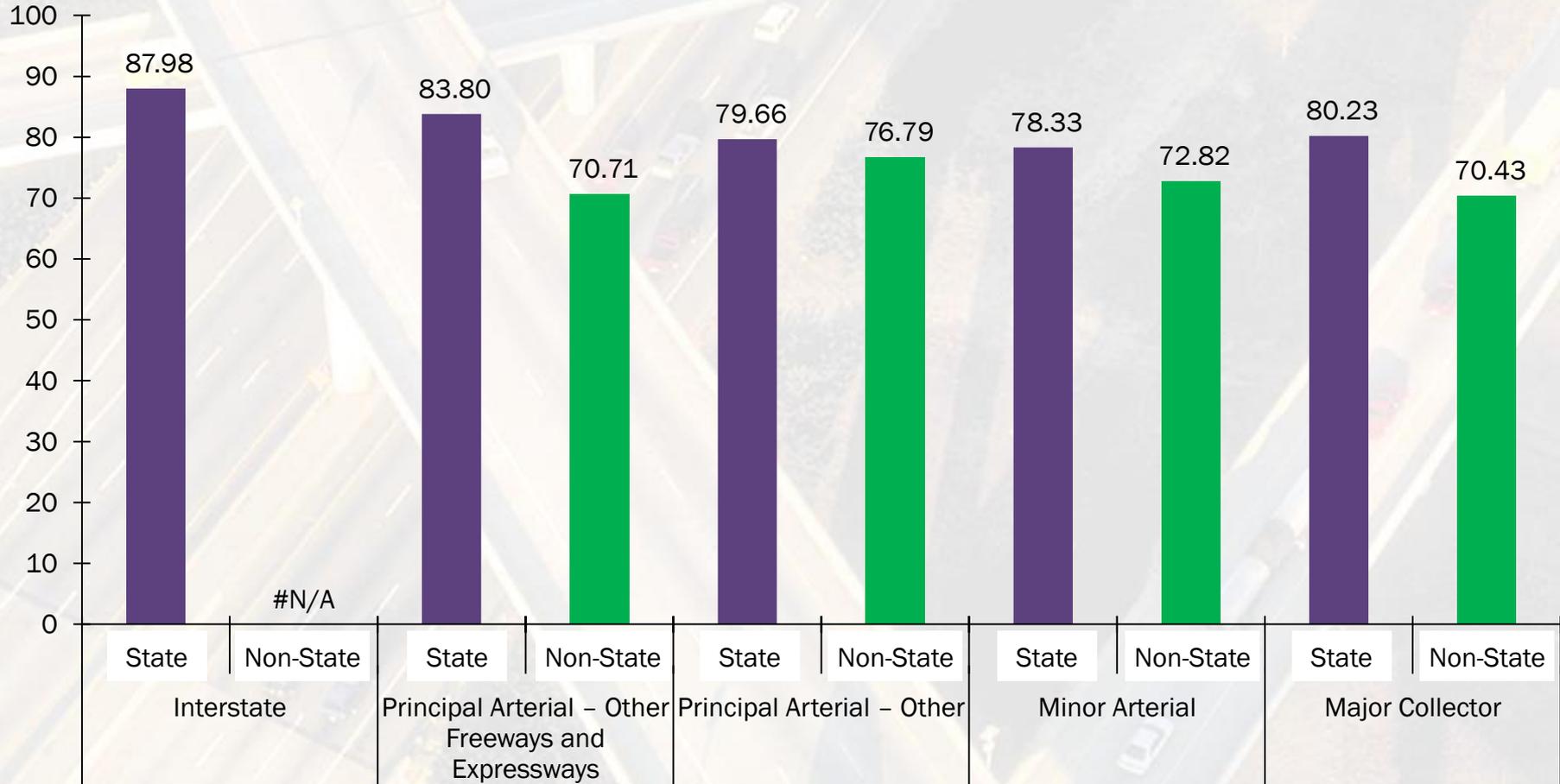
Congestion: Percentage of Miles

Non State-Owned Rural and Urban Roads



Pavement Condition

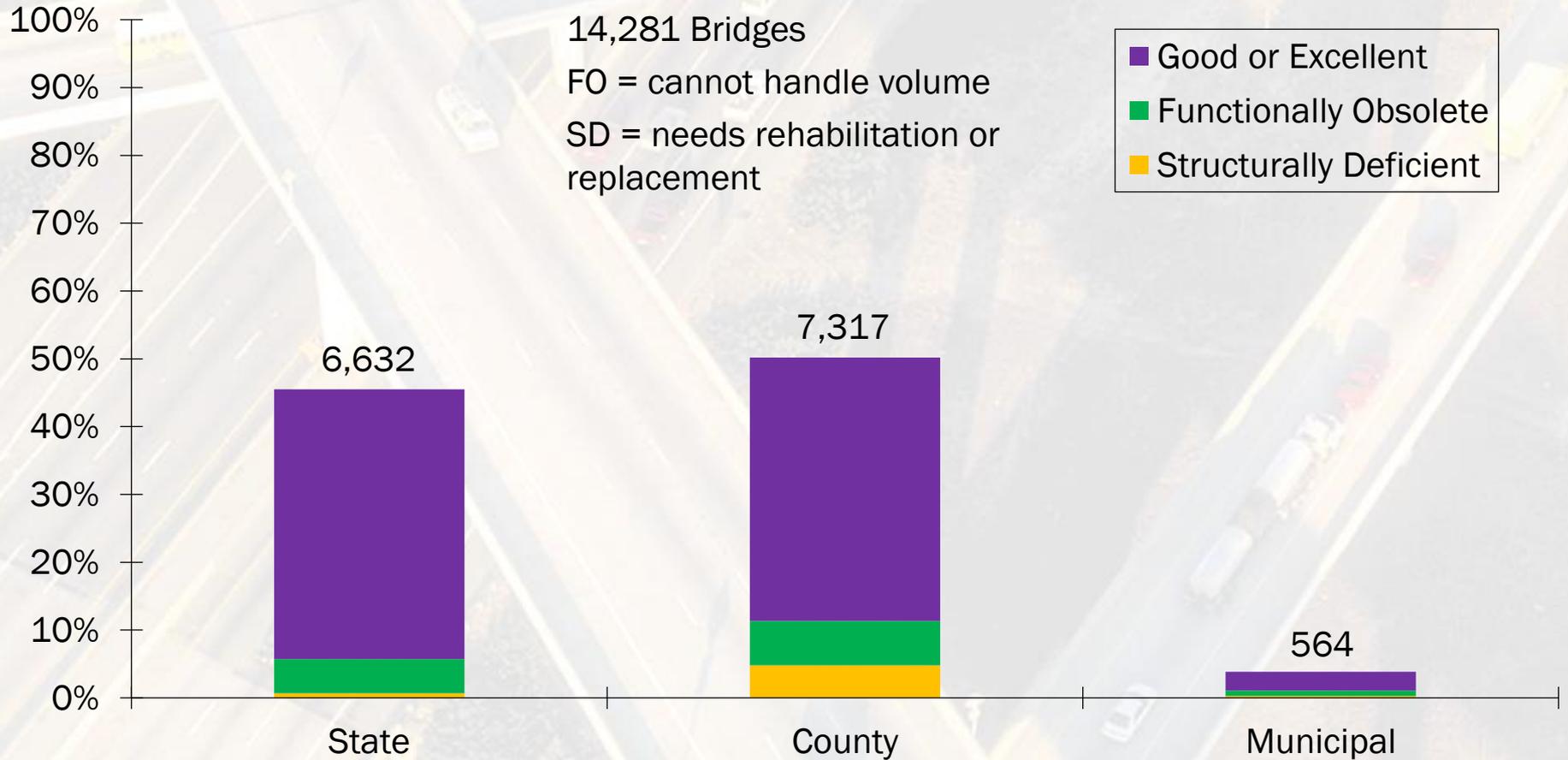
Weighted Average COPACES



Source: GDOT State Maintenance Office.

Bridge Condition by Number

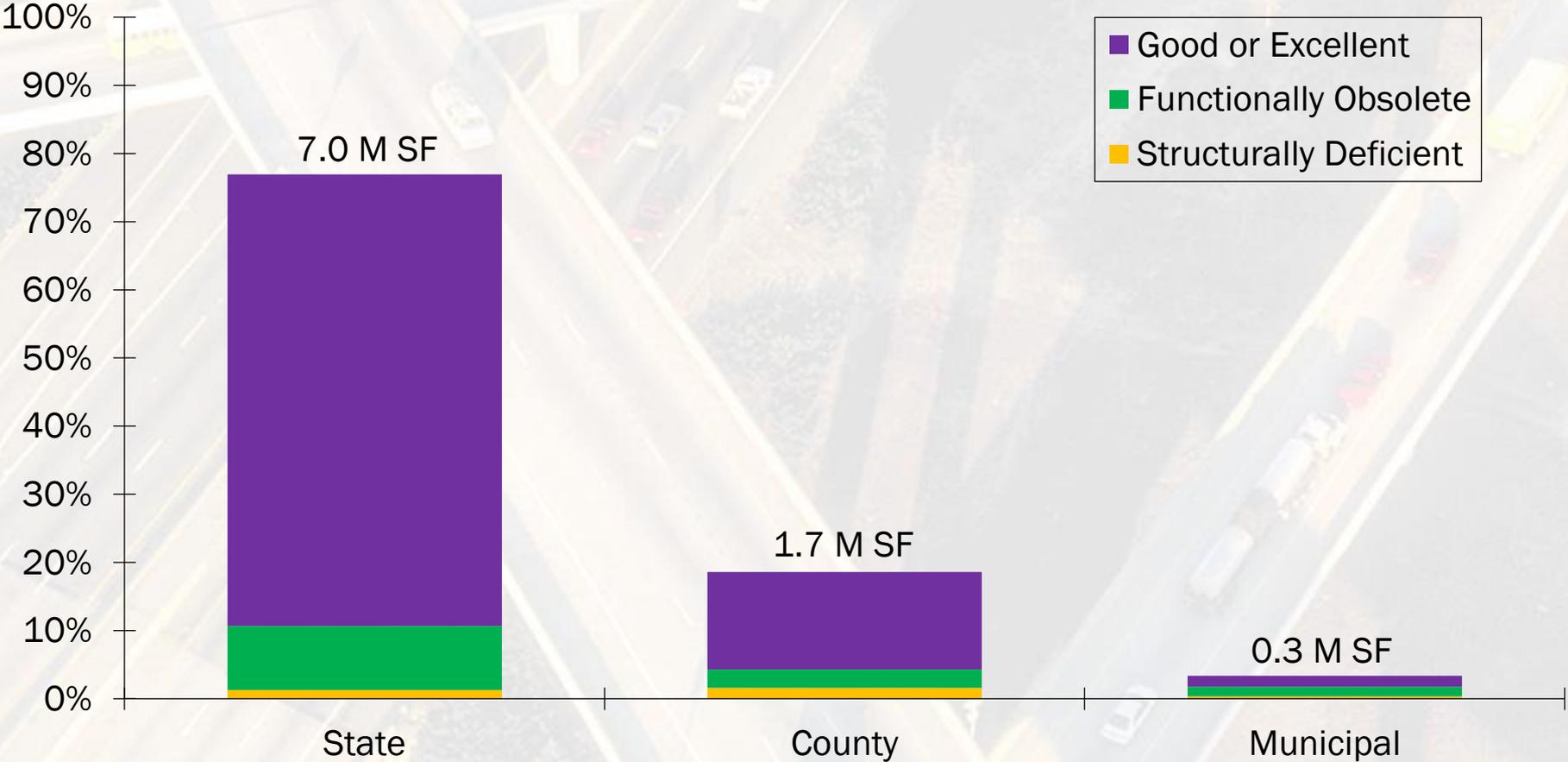
Percent of
All Bridges



Source: National Bridge Inventory from GDOT Submissions.

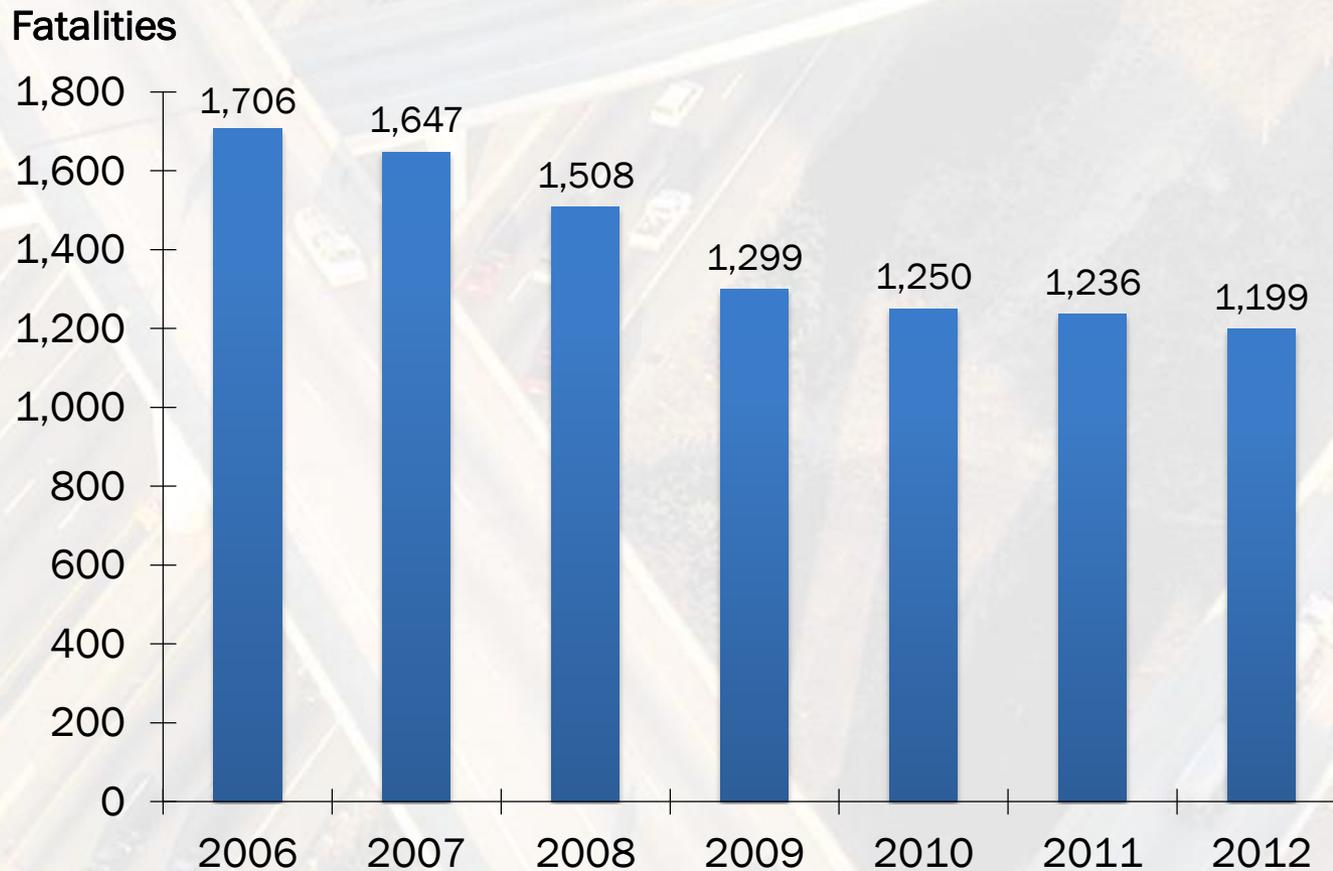
Bridge Condition by Deck Area

Percent of All Deck Area



Source: National Bridge Inventory from GDOT Submissions.

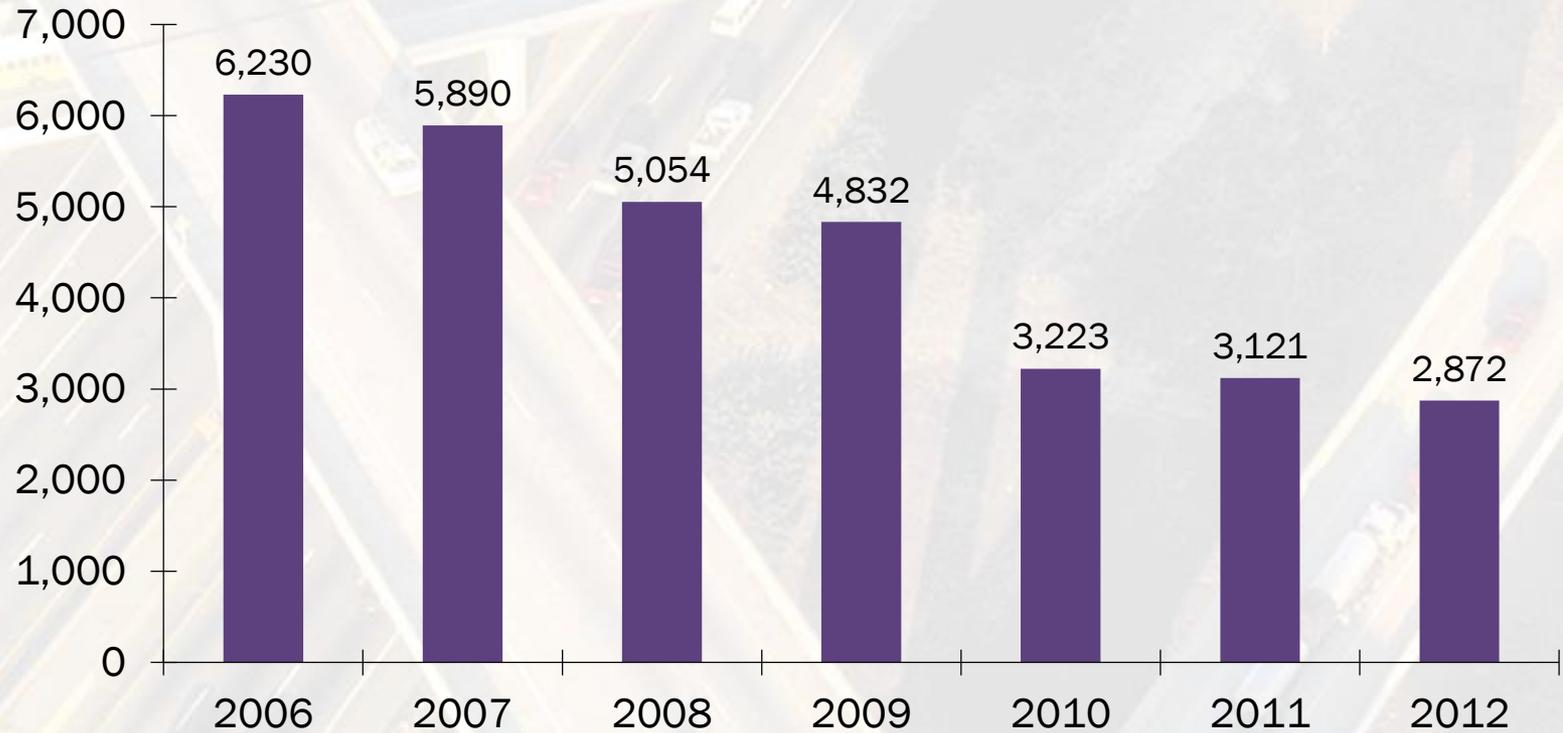
Highway Fatalities



Source: Georgia Department of Transportation as of November 1, 2013.

Highway Serious Injuries

Serious Injuries

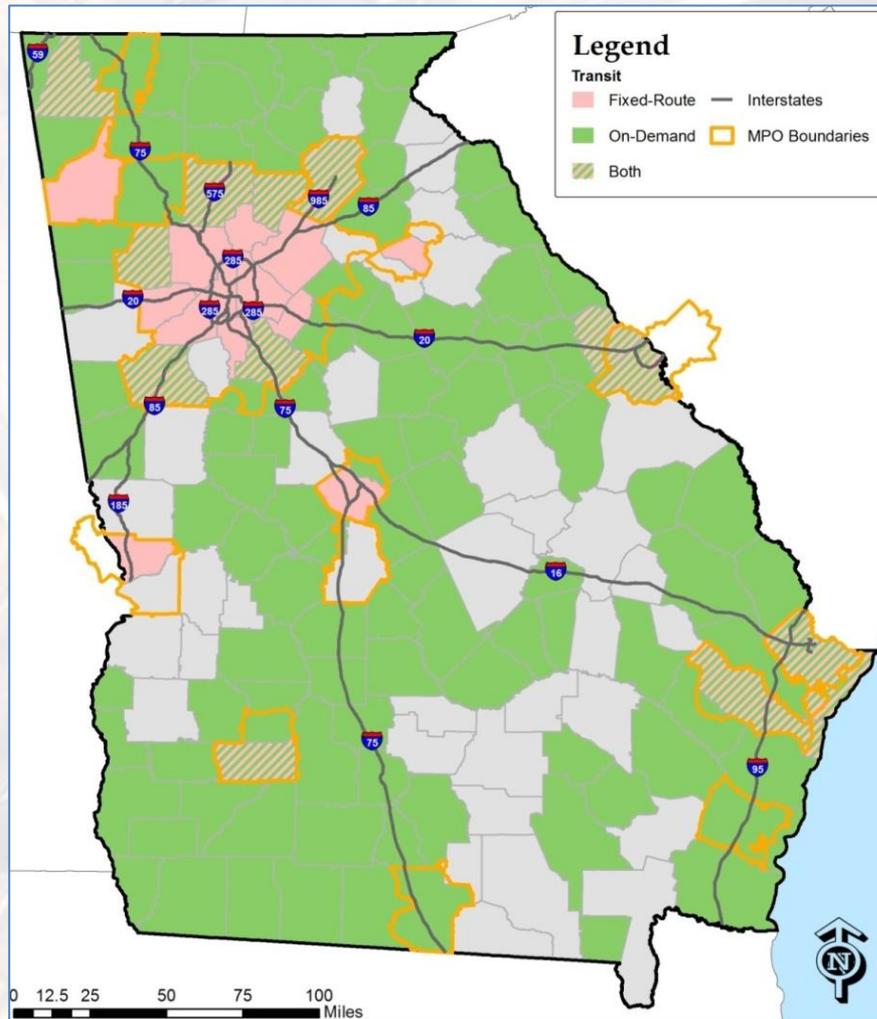


Source: Georgia Department of Transportation as of November 1, 2013.

Highway Findings

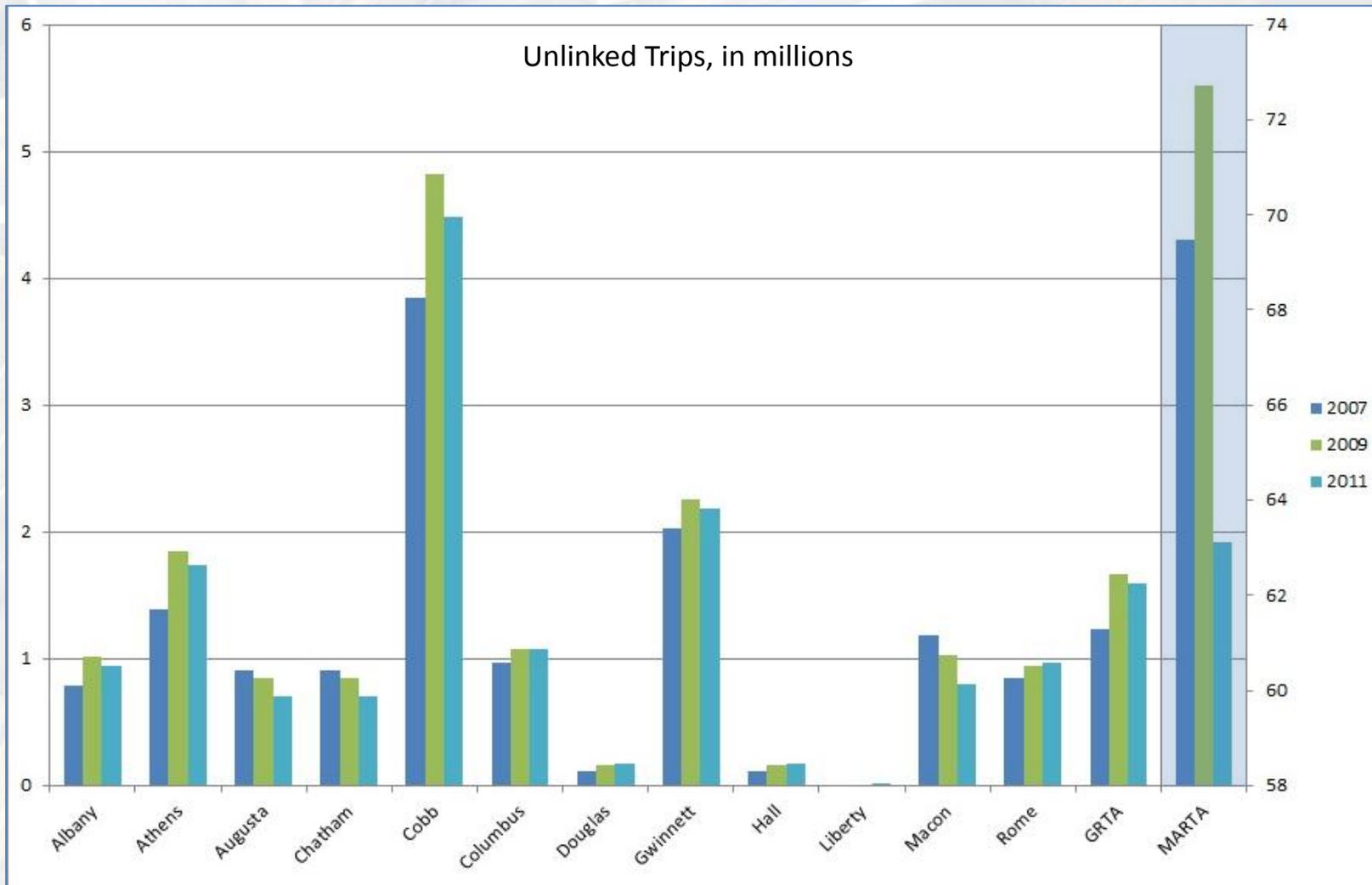
- **Pavement and bridge condition on the state-owned network is very good**
- **Pavement and bridge conditions on non-state owned facilities have lower average condition ratings**
- **Peak-period congestion in the Atlanta metropolitan region is significant**
- **Some critical bottlenecks in other urban areas**

Transit Service by Type by County



Source: GDOT Office of Intermodal Programs.

Ridership



Transit Findings

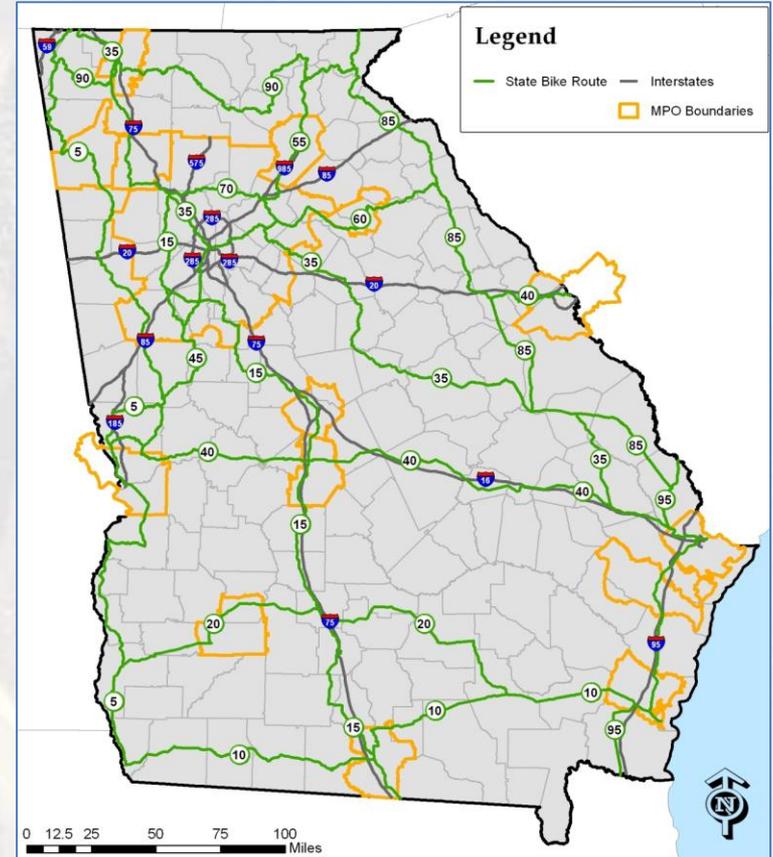
- **Dedicated funding source**
- **Service in rural areas**
- **Coordination of services**
- **Aging fleet**
- **Changing lifestyles and aging populations increase demand in the future, in particular for non-commute oriented travel**

State Bicycle Route Network

Example of Signed State Bicycle Route



Network



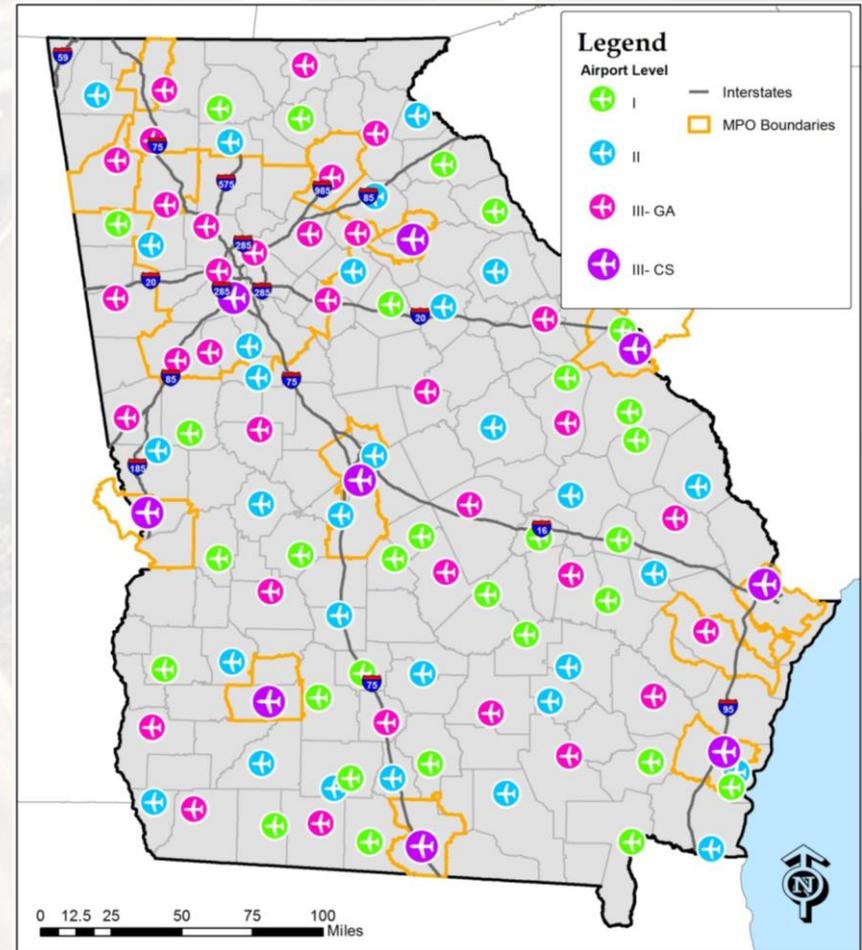
Source: GDOT.

Bicycle and Pedestrian Findings

- Increasing traffic on designated bike routes
- Sidewalk coverage
- Coordination/filling system gaps
- Crash hot spots

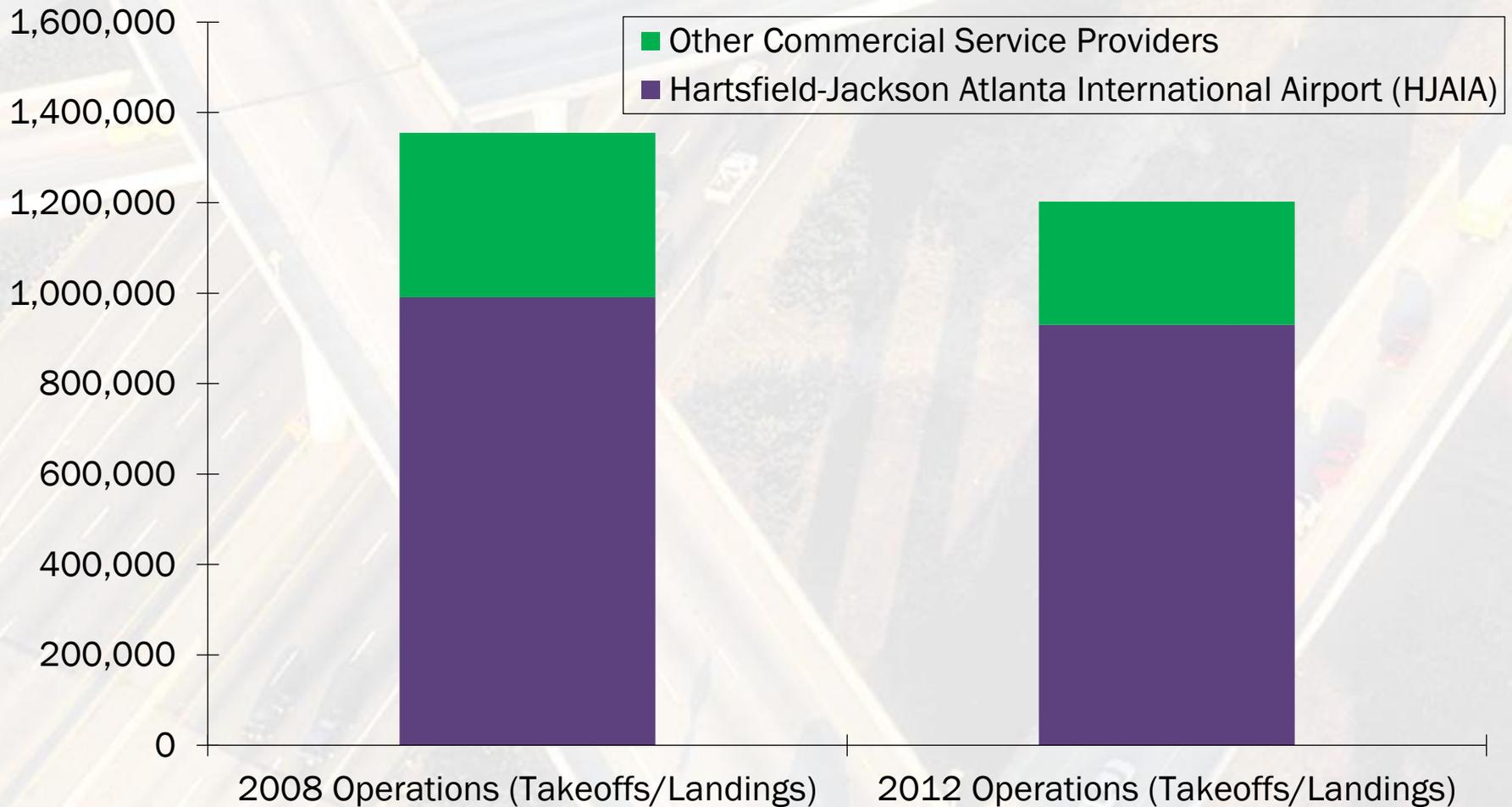
Georgia's Airports

- 104 airports operating in 2013, 9 commercial
- World's busiest airport in Atlanta
- Most airports have excess capacity



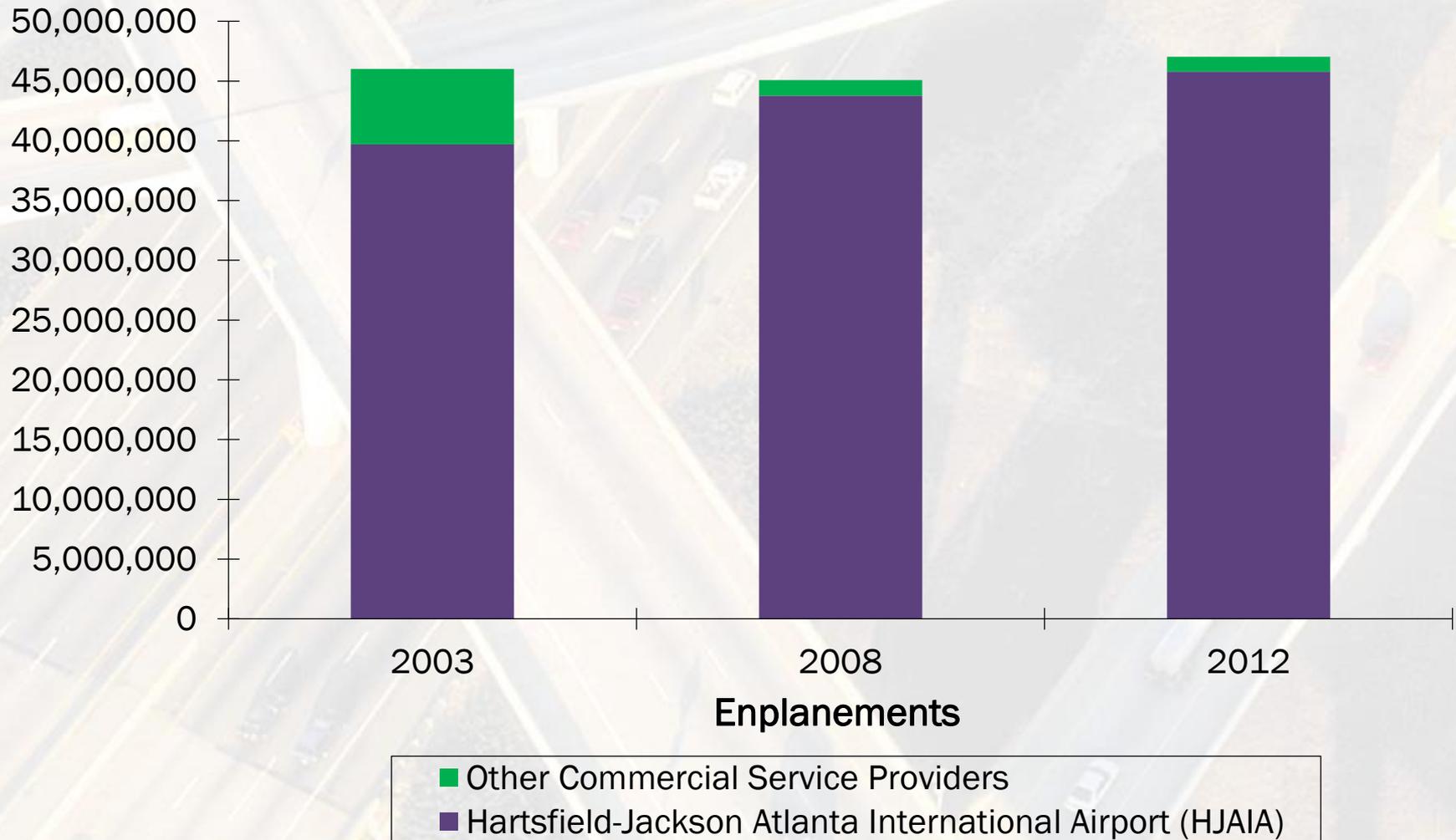
Source: GDOT, FAA (September 2013).

Commercial Service Operation



Operations pre and post recession. Source: GDOT and FAA.

Commercial Service Enplanements

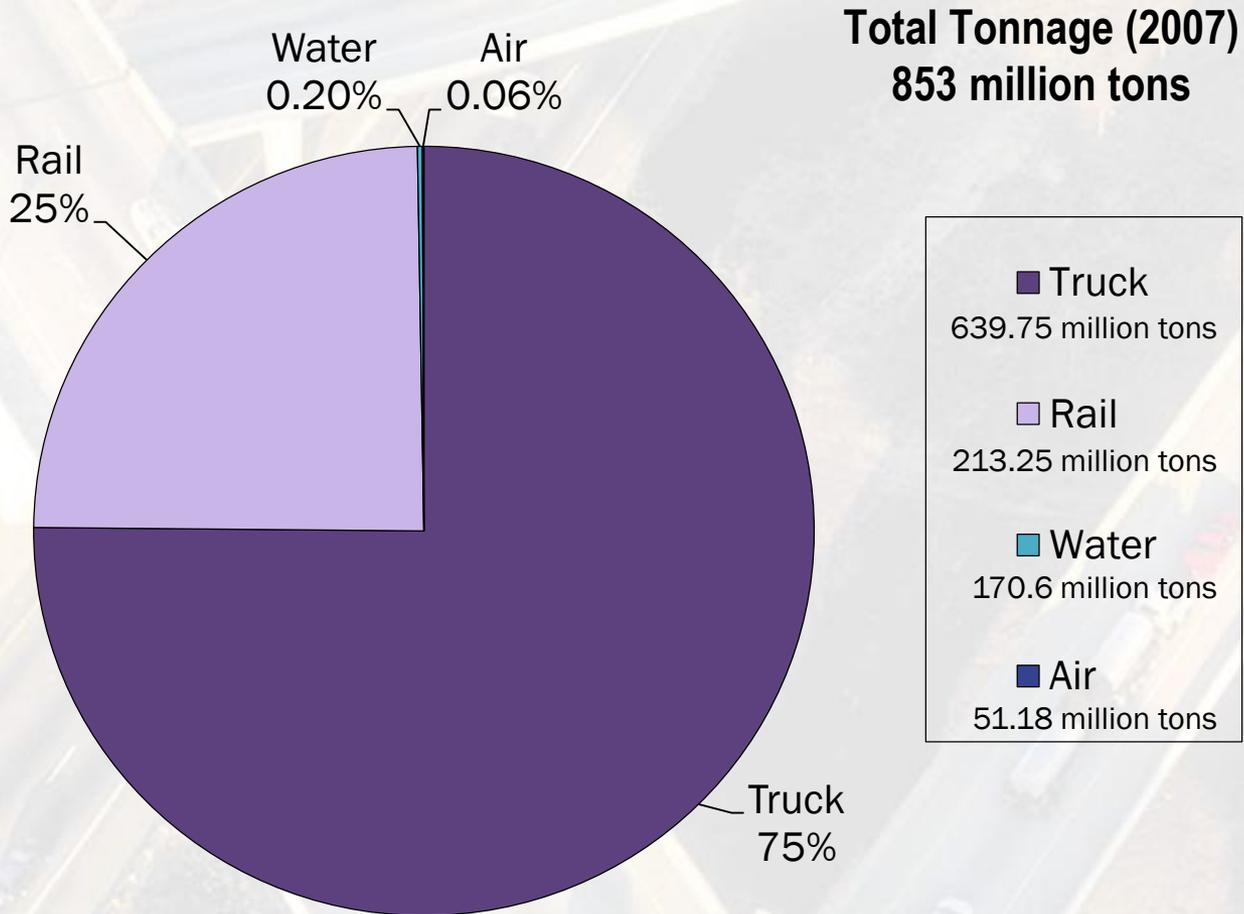


Source: GDOT Intermodal and FAA Annual Enplanement Report.

Aviation Findings

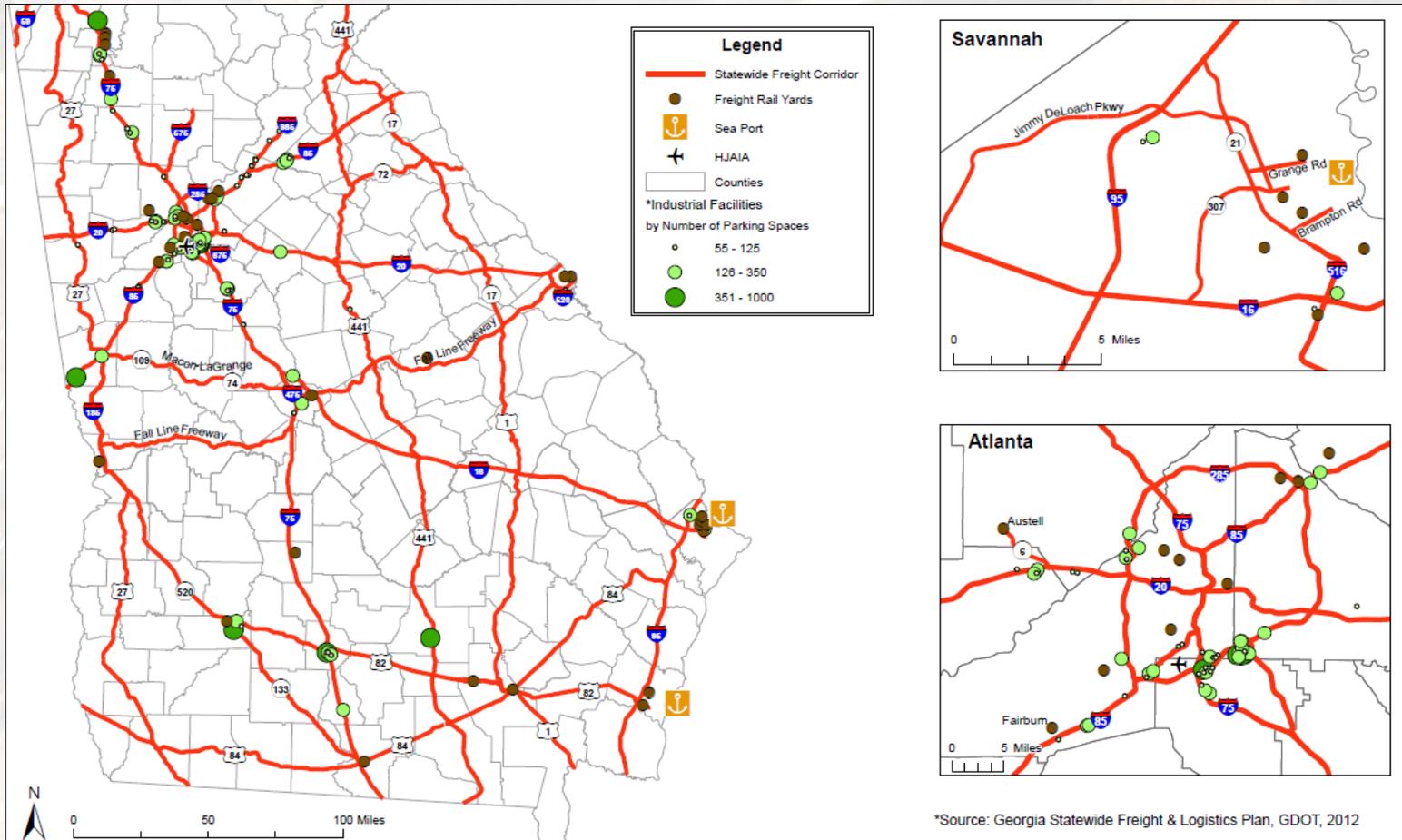
- **Airline consolidation**
- **Ridership stagnation outside of Hartsfield-Jackson Atlanta International Airport (HJAIA)**
- **Limited cargo service outside of HJAIA and intense national competition for HJAIA**
- **Some general aviation airports do not meet runway length, taxiway turn-arounds, and Runway Safety Area standards**
- **Funding**

Freight Tonnage by Mode



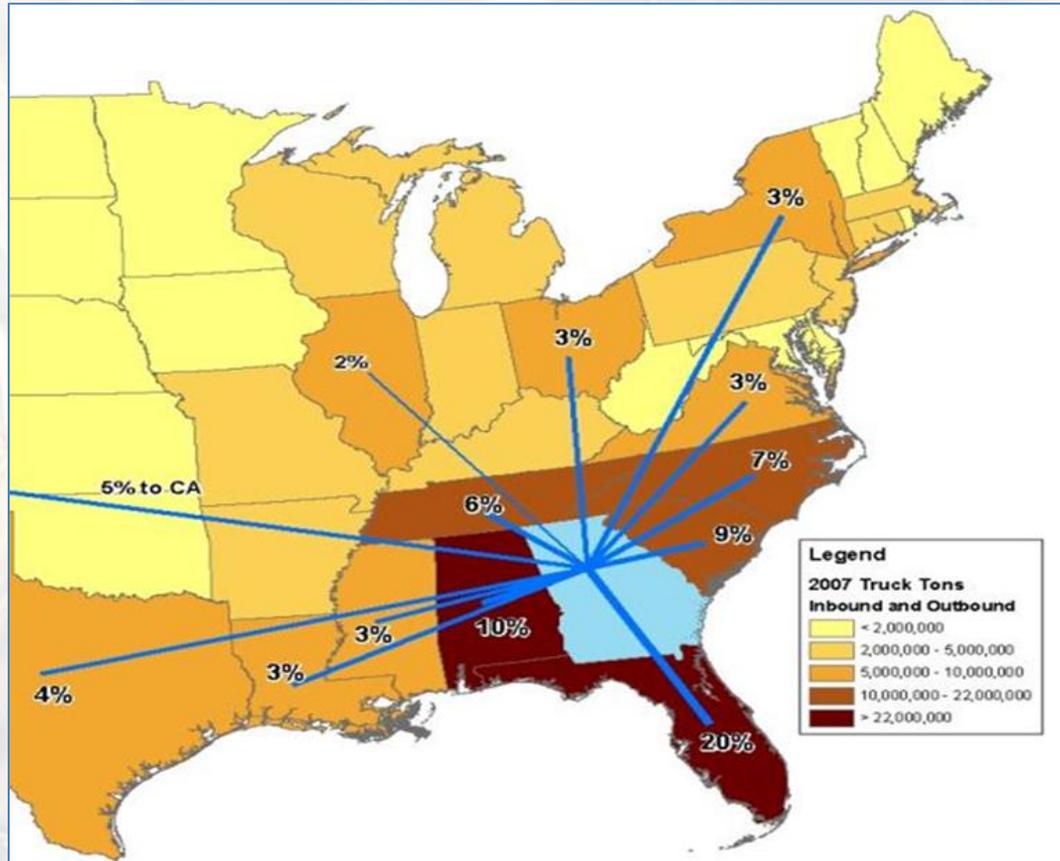
Source: Georgia Statewide Freight and Logistics Plan, GDOT, 2012.

Designated Freight Corridors



Source: State Transportation Board Designated Freight Corridors per GA code, 2013.

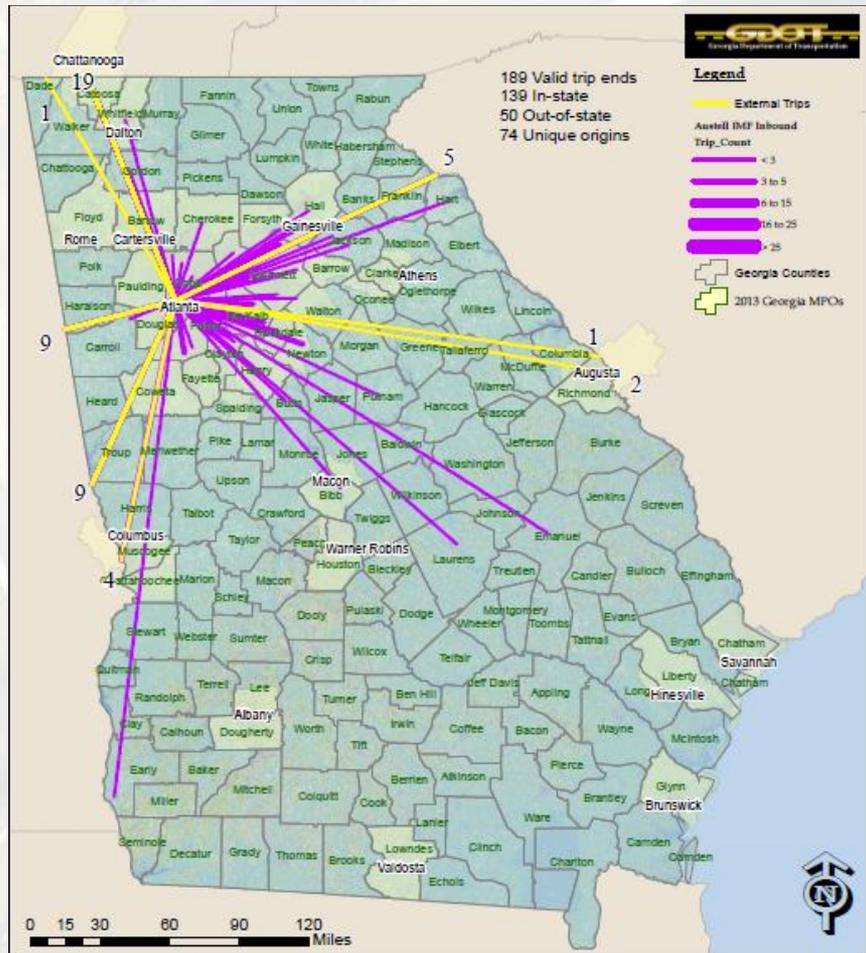
Top State Trading Partners for Georgia Truck Traffic



Source: 2007 TRANSEARCH Data.

Atlanta Regional Truck Trip Origins and Destinations

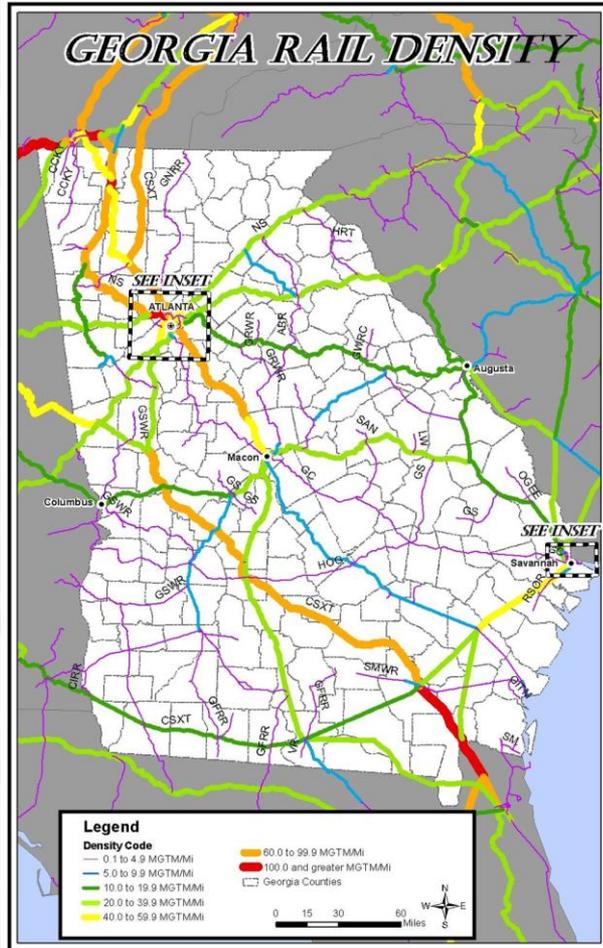
NS Austell Intermodal Rail yard



Source: GDOT SWTP/SSTP Intermodal Yard Truck Intercept Survey, August 2013.

Georgia Rail

Rail Density



Rail Deficiencies

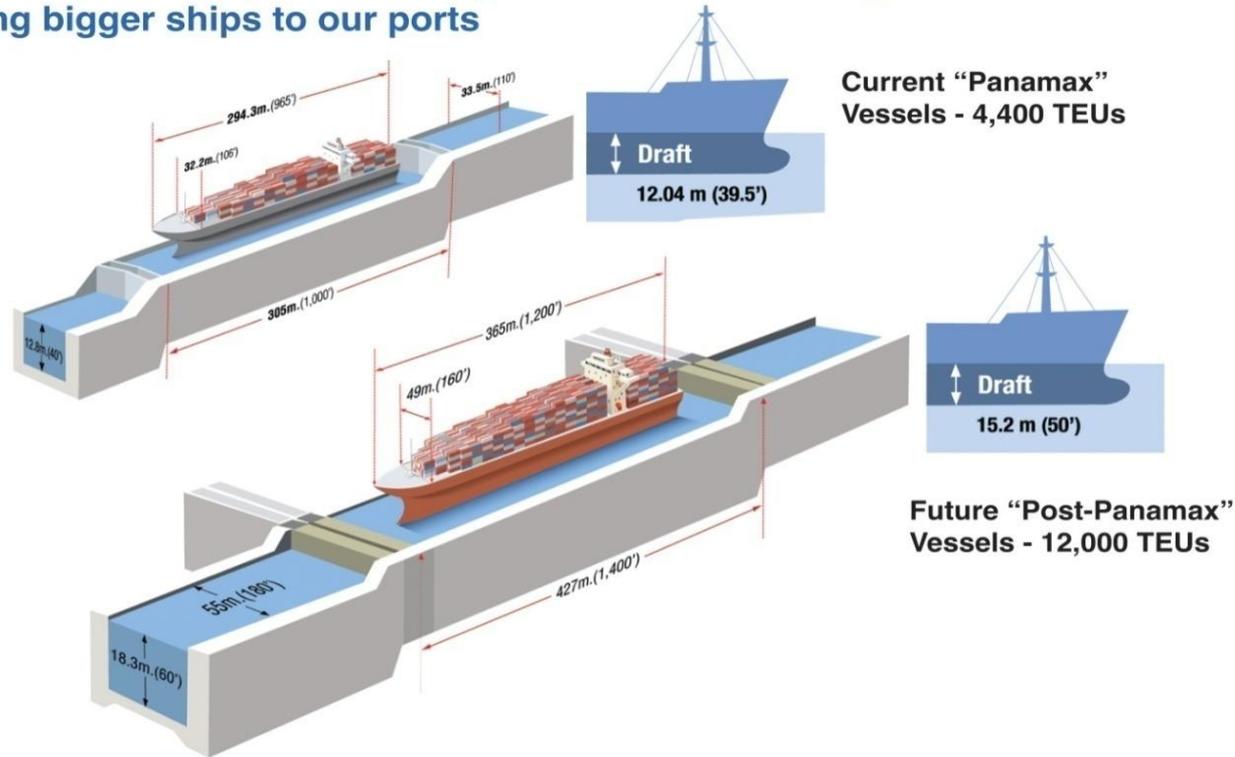
Meeting Standard 286K Car Weight Minimum



Source: Georgia Statewide Freight and Logistics Plan, 2012.

Maximum Ship Sizes at Panama Canal Today and After Expansion

Panama Canal expansion and global economic changes will bring bigger ships to our ports



SOURCE: Courtesy of the Panama Canal Authority

Freight Findings

- **Truck congestion and reliability in the Atlanta region**
- **Supply of truck parking**
- **Truck safety**
- **Truck size and weight**
- **Rail system bottlenecks (line haul capacity and segments such as Howell Junction)**
- **Weight limits and vertical clearances**
- **Rail terminal capacity**
- **Savannah port deepening to accommodate post-Panamax ships**
- **Last mile connectivity to the Port of Savannah and rail terminals**

Economic Forecast Methodology

- **Collected historical data from the U.S. Bureau of Economic Analysis for comparison**
 - 11 year period (2001-2011) and 32 year period (1980-2011) used for comparison
- **Collected GA statewide forecast data :**
 - Georgia Governor's Office of Planning and Budget (2012-2030)
 - Georgia's Workforce Statistics and Economic Research (2010-2020)
 - Georgia Statewide Transportation Model (SWM) (2012-2040)
 - All Georgia MPOs (2010-2040)
 - Economy.com (2012-2043)
 - REMI (2011 and 2012-2043)
- **Economic indicators include population, employment, and Gross State Product (GSP)**

Financial Forecast Methodology

- **Three funding tiers**
 - 2015-2020, 2021-2030, 2031-2040
- **All funding sources**
 - Federal (FHWA and FTA)
 - State (state general fund, state motor fuel tax, GTIB)
 - Local/Regional (MARTA sales tax and fares, TIA, managed lanes, local funds used for highways)
- **Fiscally Constrained Scenario**
 - Stable fund sources projected into the future
- **Fiscally Unconstrained Scenario**
 - Less conservative assumptions

Stakeholder Outreach

- Continuous throughout study process
- Tailored outreach, targeting engagement methods to different audiences
- Project website – 490 hits in the first month (www.dot.ga.gov/SSTP-SWTP)
- Ongoing input via:
 - Plan update web site
 - Statewide outreach
 - On-line survey, smartphone link
 - Consultation with local elected officials, agency representatives
 - Stakeholder Advisory Committee

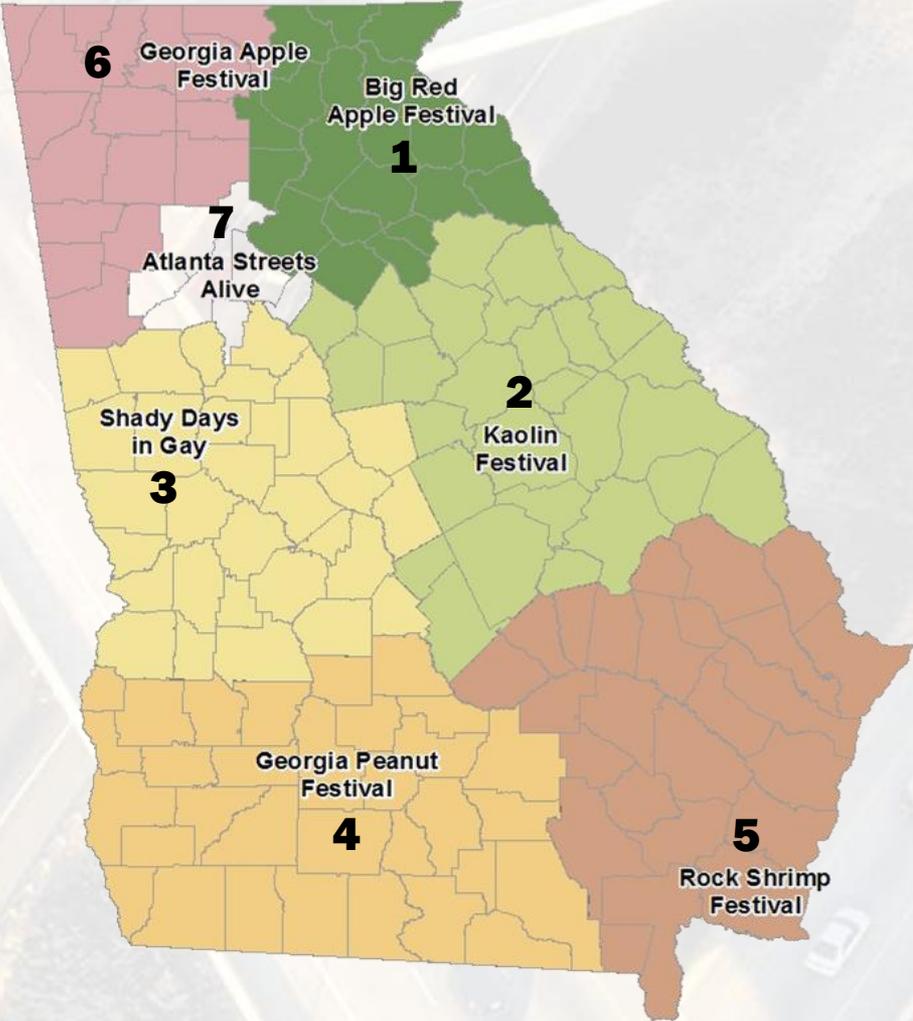


Fall Festival Public Outreach

GDOT District	Festival	County	Date	Surveys Received
1	Big Red Apple Festival	Habersham	10/12/13	164
2	Kaolin Festival	Washington	10/12/13	49
3	Shady Days in Gay	Meriwether	10/05/13	41
4	Georgia Peanut Festival	Worth	10/19/13	67
5	Rock Shrimp Festival	Camden	10/05/13	158
6	Georgia Apple Festival	Gilmer	10/19/13	64
7	Atlanta Streets Alive	Fulton	10/06/13	62
TOTAL				605



Fall Festival Public Outreach Locations



Festival Survey Form



GDOT Statewide Strategic Transportation Plan Survey (10/13)

What's the best thing about Georgia's transportation system?
[choose one]

- Maintenance of the roads and highways
- Transit
- Local walking and biking opportunities
- Airports, railroads & ports
- Other: (please specify) _____

Where is/are the opportunity(ies) for the Georgia Department of Transportation to improve? [can choose more than one]

- Maintenance of roads and highways
- Safety of roads
- Transit options
- Local walking and biking opportunities
- Airports, railroads, & ports
- Strategic investments to support economic development
- Other: (please specify) _____

When you think about the future of transportation, what do you think the most important area of emphasis is for Georgia? [choose one]

- Better connectivity of the roadway system
- Reducing traffic congestion
- Safety of the transportation system
- Maintenance of the roads and bridges
- Providing more public transportation options
- Supporting the economy by moving freight more efficiently
- Other: (please specify) _____

When you think about the future of transportation, what do you think is Georgia's most valuable transportation asset? [choose one]

- State roads
- Interstate system
- Local walking and biking opportunities
- Transit systems
- Airports, railroads & ports
- Other: (please specify) _____

What are the 3 most significant transportation challenges Georgia faces in the next 25 years? [please rank with "1" being most important]

- Aging and deteriorating infrastructure
- Reliability of our public transit services
- Rising transportation costs
- Increasing distances we have to travel
- Increasing truck traffic on our highways
- Land development patterns
- The travel needs of the elderly
- Safety
- Increasing traffic/congestion delays
- Other: (please specify) _____

Using a scale of 1-5, with 1 meaning "I strongly agree" and 5 meaning "I strongly disagree", please score the following statements based on experience.

- It is easy to get where I need to go; there is good connectivity.
- The roads are safe.
- The roads and bridges are well maintained.
- I have public transit options to choose from.
- Airports, railroads, and ports are important to the economy
- My commute time to work or school takes about the same amount of time each day (i.e. it is "reliable").

Festival Survey Form (cont'd)



*Georgia Department of Transportation
Statewide Strategic Transportation Plan Survey*

My top 3 traveling priorities are: [please rank with "1" being most important]

- Safety
- Travel time
- Reliability
- Convenience
- Cost
- Health benefits
- Comfort
- Other: (please specify) _____

What state do you live in? _____

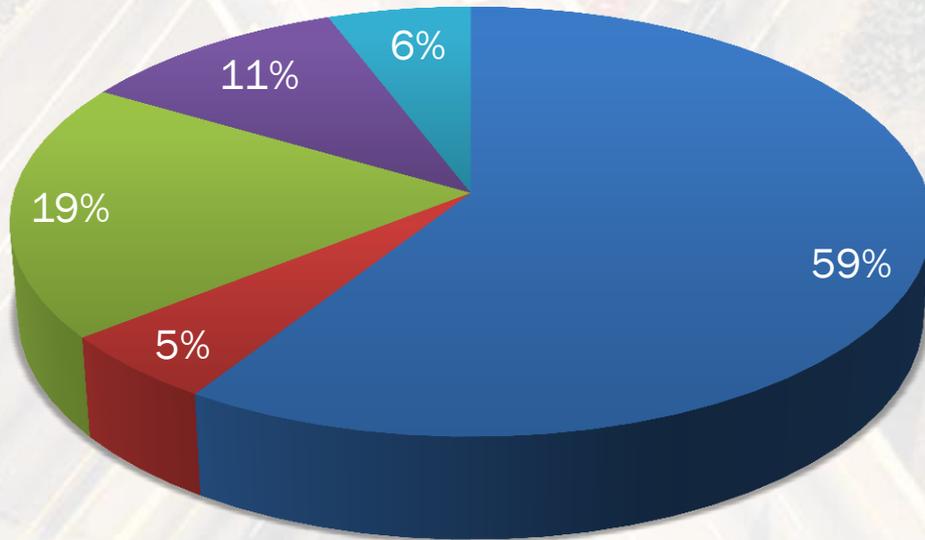
If you live in Georgia, what county do you live in? _____

If you would like to be entered into the drawing to win a gift card, please provide the information requested below:

Name

Contact Information [email &/or phone number]

What is the Best Thing About Georgia's Transportation System?



■ Maintenance of the roads and highways

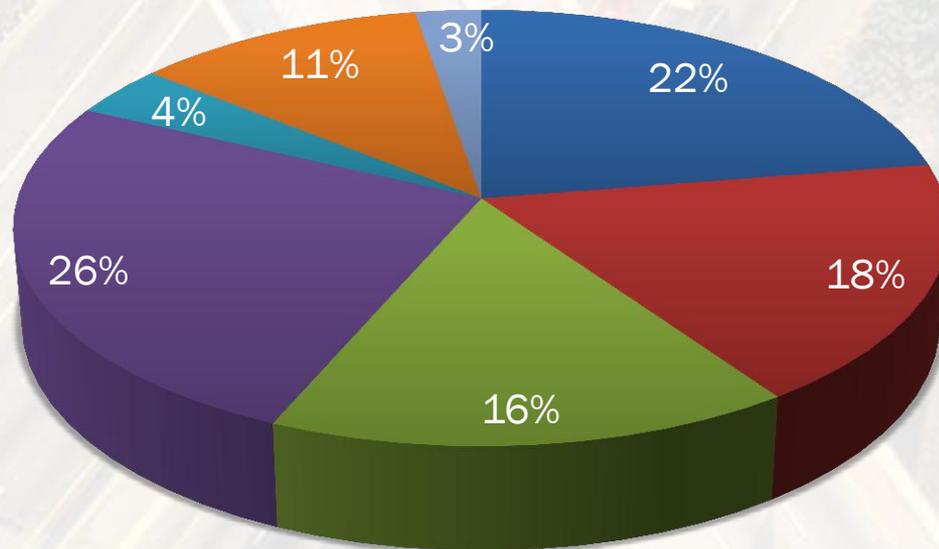
■ Transit

■ Local walking and biking opportunities

■ Airports, railroads & ports

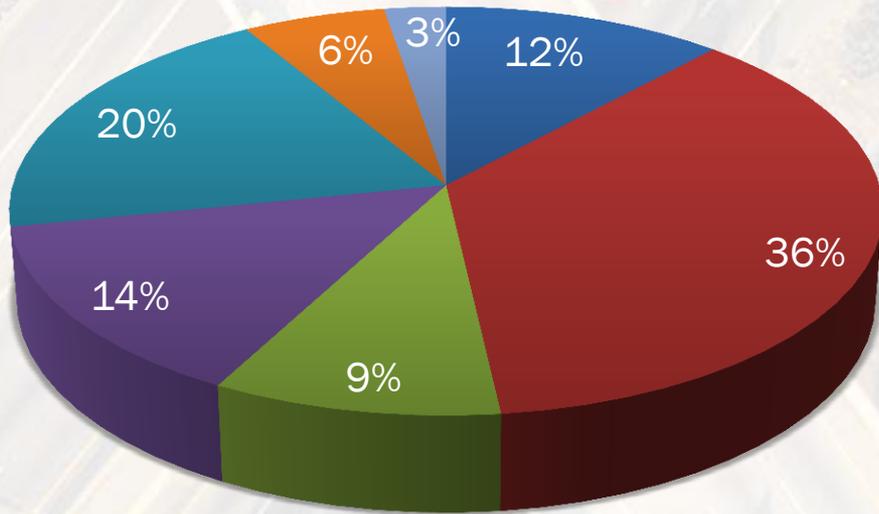
■ Other

Where Are Opportunities for GDOT to Improve?



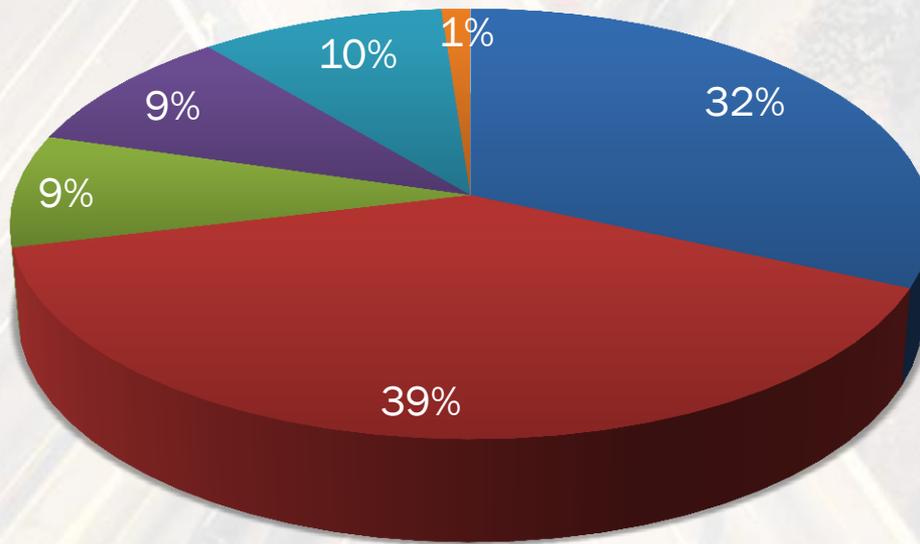
- Maintenance of the roads and highways
- Safety of roads
- Transit options
- Local walking and biking opportunities
- Airports, railroads & ports
- Strategic investment to support economic development
- Other

What Are the Most Important Areas to Emphasize in the Future?



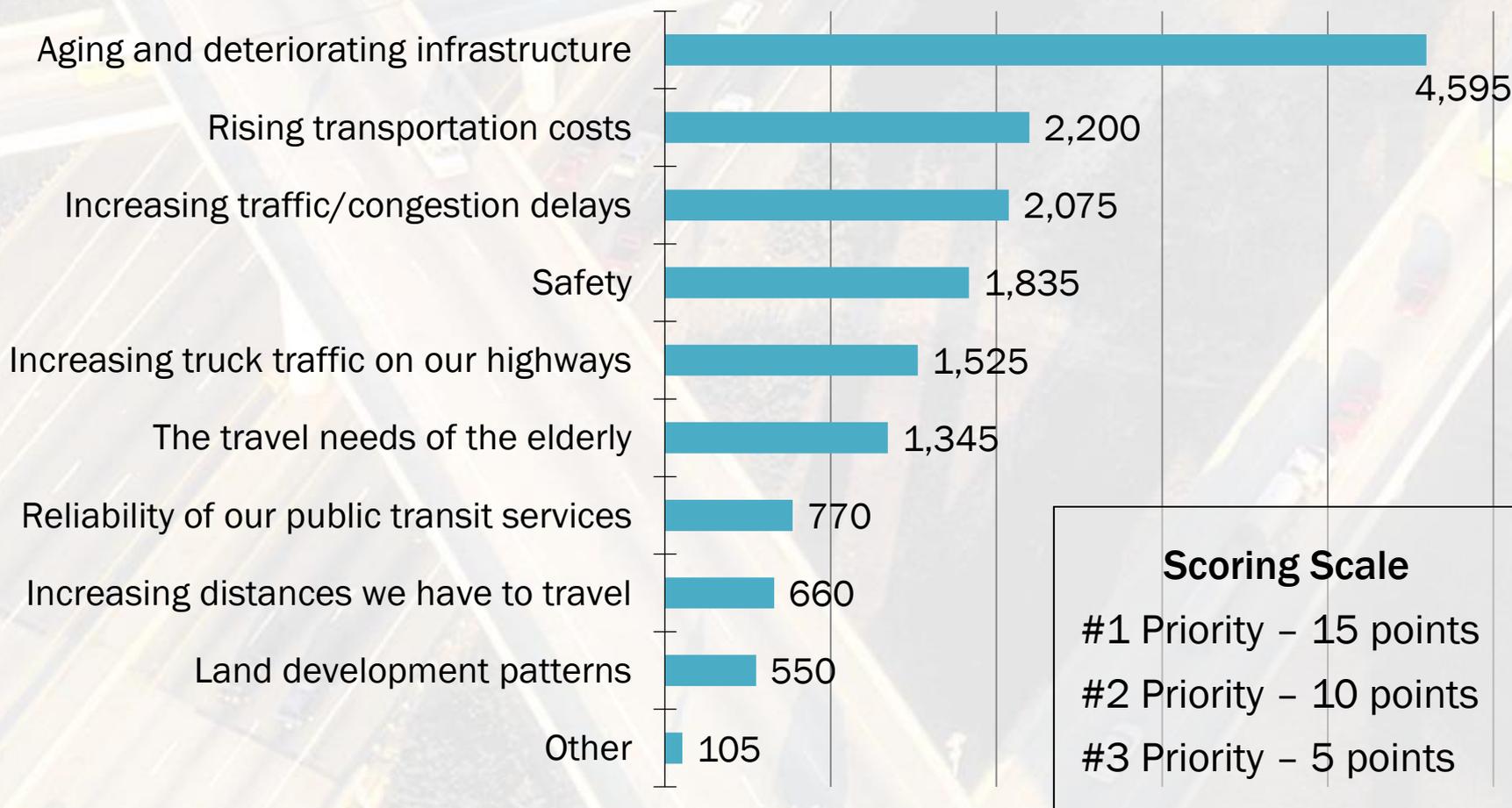
- Better connectivity of the roadway system
- Reducing traffic congestion
- Safety of the transportation system
- Maintenance of the roads and bridges
- Providing more public transportation options
- Supporting the economy by moving freight more efficiently
- Other

Looking to the Future, What is Georgia's Most Valuable Transportation Asset?



- State roads
- Interstate system
- Local walking and biking opportunities
- Transit systems
- Airports, railroads & ports
- Other

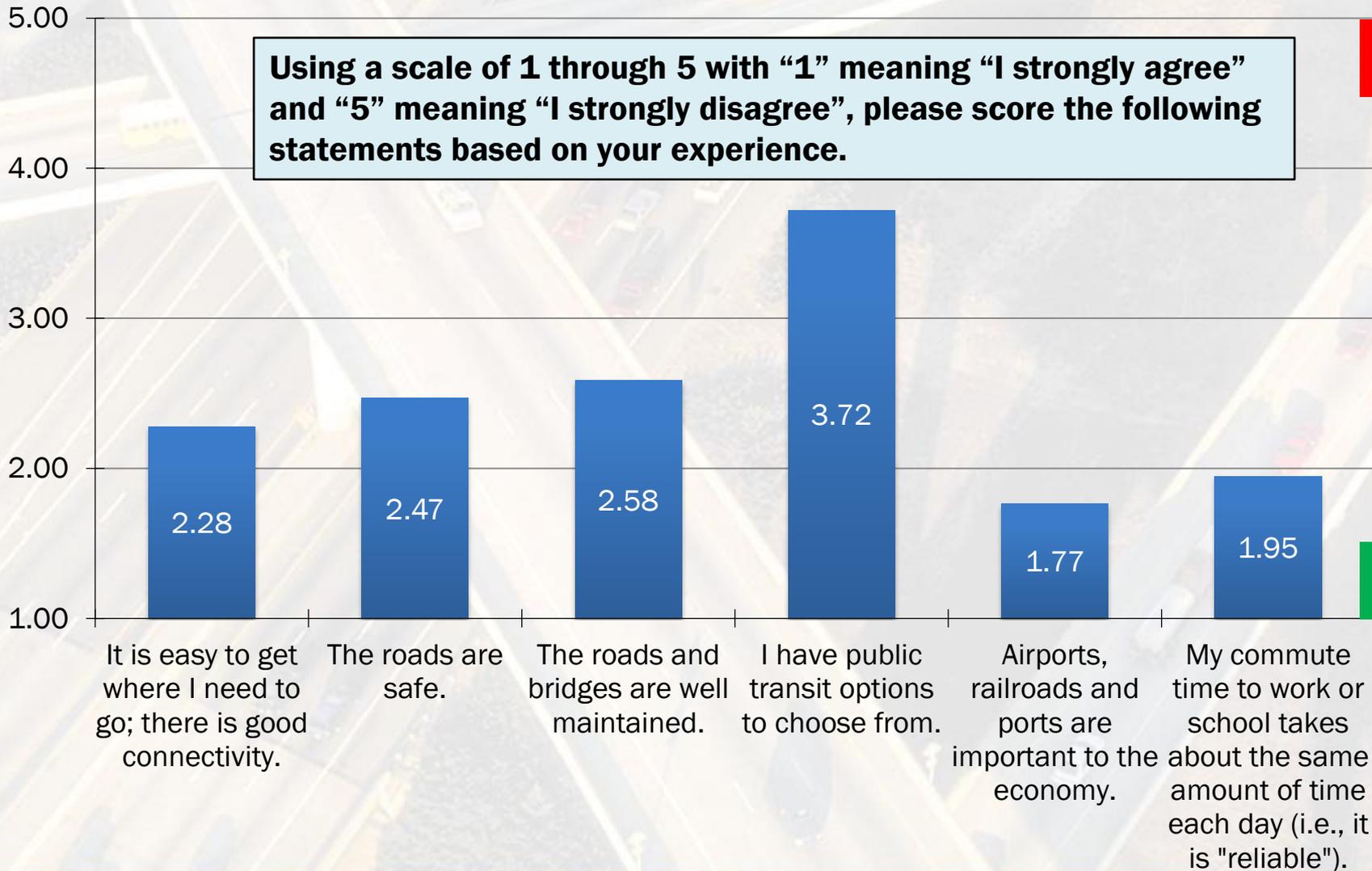
What Are the Most Significant Transportation Challenges Georgia Faces in the Next 25 Years?



Scored Statements

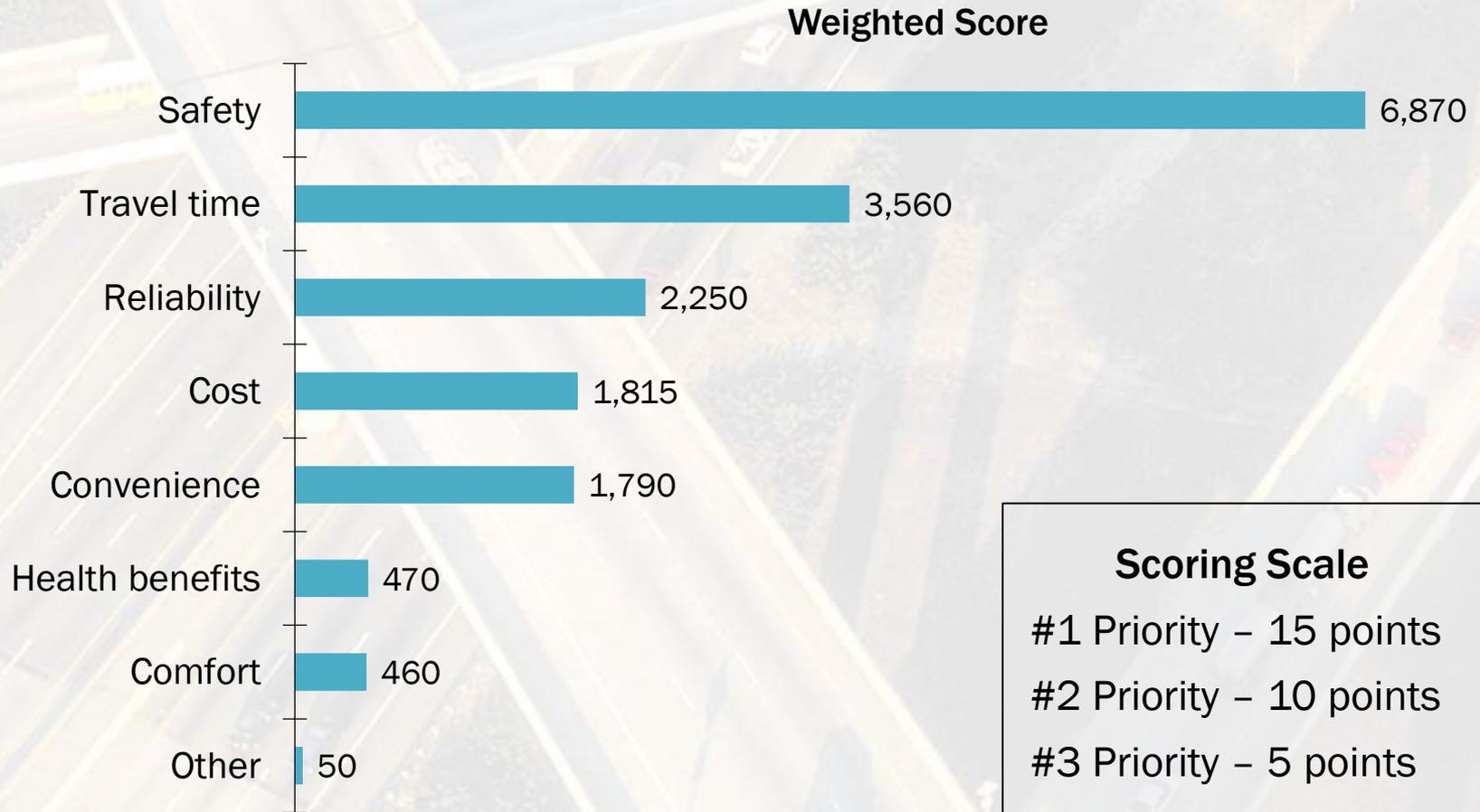
Using a scale of 1 through 5 with “1” meaning “I strongly agree” and “5” meaning “I strongly disagree”, please score the following statements based on your experience.

Strongly Disagree



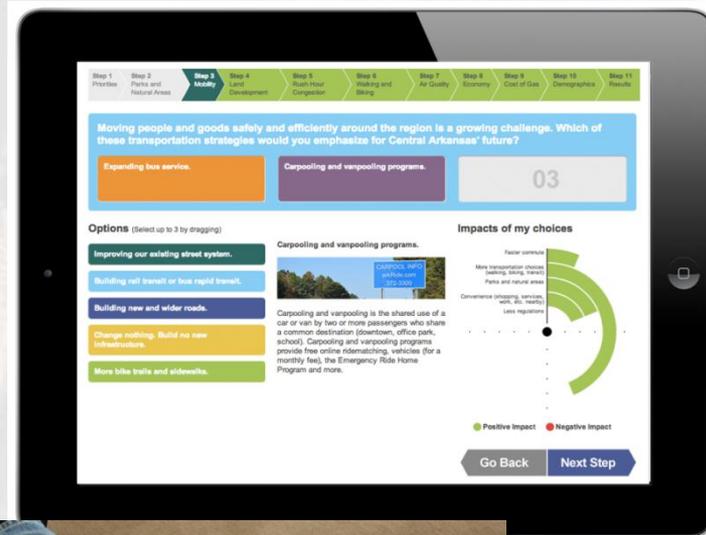
Strongly Agree

What Are Your Top Traveling Priorities?



Next Outreach Activities

- **Environmental Justice/Title VI Outreach**
 - School curriculum (5th grade)
 - Spanish surveys were available at all fall festivals
- **On-line and Smart Phone Survey**
 - FlipSides tool is part of on-line survey
 - Educational information about trade-off in investment choices
 - Gives real-time feedback to users
- **Rural Focus Group**



Next Steps

**Future Deficiencies Analysis
Spring 2014 (Third SAC Meeting)**



Tradeoff Analysis



**Fourth Stakeholder Advisory Committee Meeting,
Summer 2014 – Tradeoff Analysis**

Questions?



Project Contact Information

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Project web site – www.dot.ga.gov/SSTP-SWTP