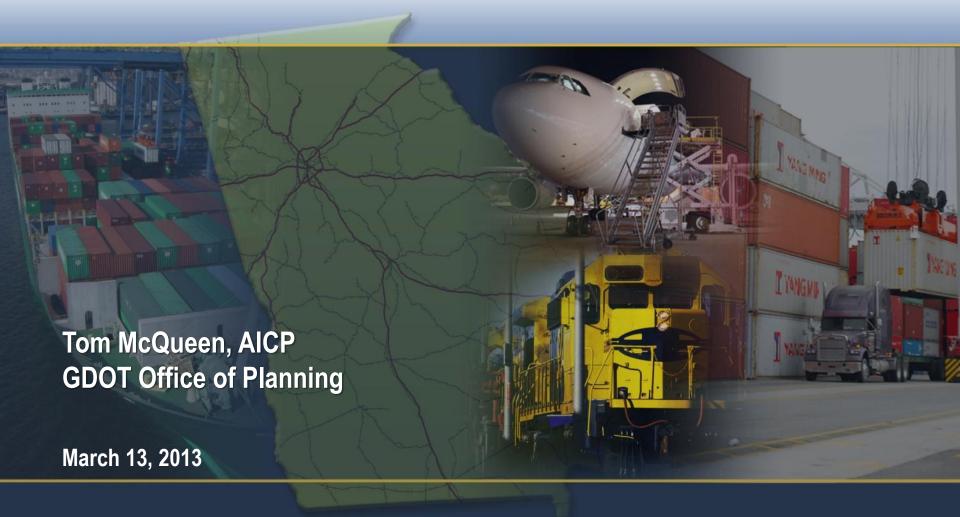
Georgia's Statewide Freight & Logistics Plan

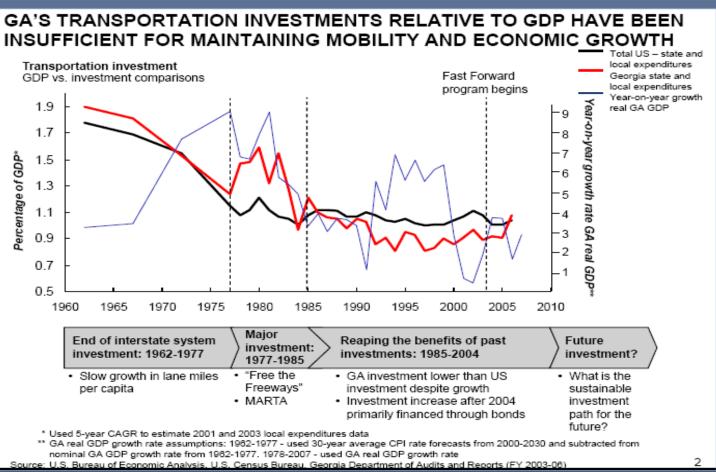




Benchmarking Investment -- Georgia vs. U.S.



Increased investment in transportation increases GDP



Source: GDOT Statewide Strategic Transportation Plan, 2010.



Commission for a New Georgia's Freight & Logistics Task Force





THE COMMISSION FOR A NEW GEORGIA

Recommendations summarized by category

OC

Outreach and Collaboration

DTT

Data, Tools, and Talent

PΙ

Planning and Infrastructure

OC: OUTREACH & COLLABORATION

- Identify and market Georgia's differentiating advantages
- Establish a Statewide "Freight Mobility Information Exchange"

DTT: DATA, TOOLS & TALENT

- Identify establish and promote statewide freight corridors and hubs
- Promote and support workforce, training, and educational programs
- Conduct an inventory of all public and private rail assets in the State

PI: PLANNING & INFRASTRUCTURE

- Develop a demand driven strategic statewide freight and logistics plan
- Make future infrastructure plans more durable
- Create a supportive business model
- Establish a focused freight and logistics division within the GDOT

Georgia's Freight & Logistics Plan Project Understanding



- Build upon preceding state initiatives
 - "IT3", and subsequent State
 Strategic Transportation Plan
 - Governor's Commission For A New Georgia: Freight & Logistics Taskforce
- Maximize freight's economic development potential
 - Identify funding strategies to advance freight program



Georgia's Freight & Logistics Plan Work Tasks



Plan Development Advisory Committee & Stakeholder Outreach

Make a
Business Case
for Freight &
Logistics

- Strategic
 Freight &
 Logistics
 Framework
- Economic Evaluation & Projection
- Recommendations & Project Evaluation

- Link to State
 Strategic
 Transportation
 Plan ("IT3")
- Identify highlevel benefits of state's logistics industries
- Analyze
 Freight
 supply &
 demand
- Identify strategic freight network
- Refine forecasts with private sector
- Describe economic value of freight investment
- Develop freight performance measures
- Prioritize projects & packages

Freight and Logistics Action Plan

Adopted: Spring 2012



Georgia's Freight & Logistics Plan Broad-based Outreach



- Public Sector
 - Office of the Governor *
 - Seorgia Ports Authority
 - Georgia Dept. of Economic Development *

 Logistics Innovation Center
 - » FHWA Georgia Division *
 - » GDOT Office of Intermodal *(rail, ports)
 - » Hartsfield Jackson International Airport
 - » Georgia Association of MPOs
- Private Sector
 - » Coca-Cola
 - » CSX Railroad
 - » Delta Airlines
 - » Georgia Motor Trucking Assoc.

- The Home Depot
- » Norfolk Southern Railroad
- Southern Freight
- » UPS

Georgia's Freight & Logistics Plan





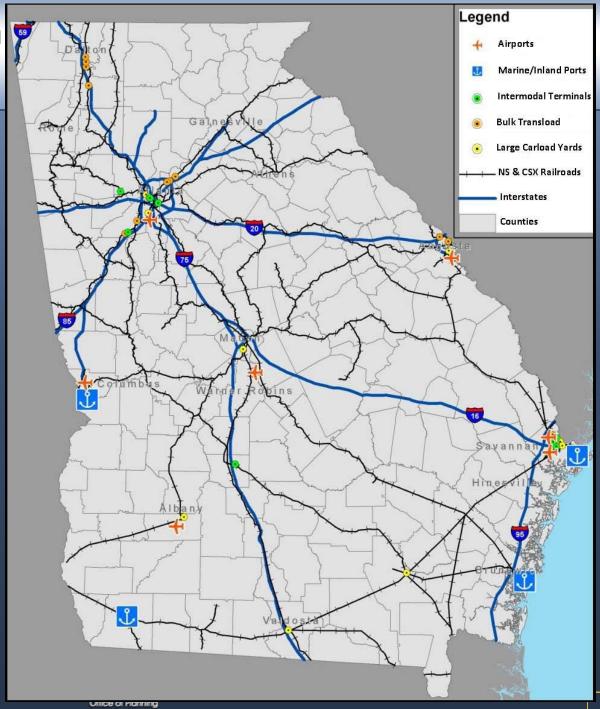
If Georgia can regain its historical 21% market share of the Southeast's freight-related industries...

... the State would gain \$20 Billion in economic output over the next 10 years.



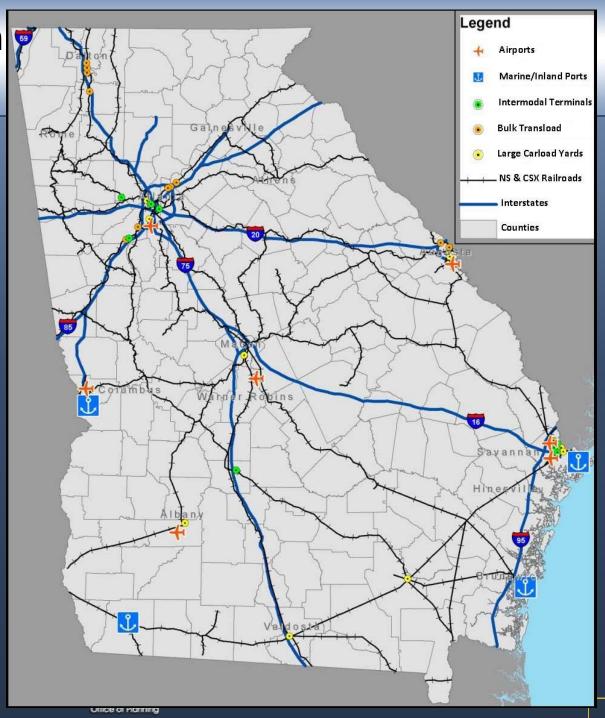
Freight System Assets

- Port of Savannah complex
 - » 4th busiest U.S. container port
 - Fastest -growingU.S. container portover last 8 years
 - #2 in U.S. container exports, by tonnage (after Los Angeles)
- Port of Brunswick complex
 - » 3rd in U.S. for auto imports
 - » #5 for total U.S. auto & vehicle imports/exports



Freight System Assets (cont'd.)

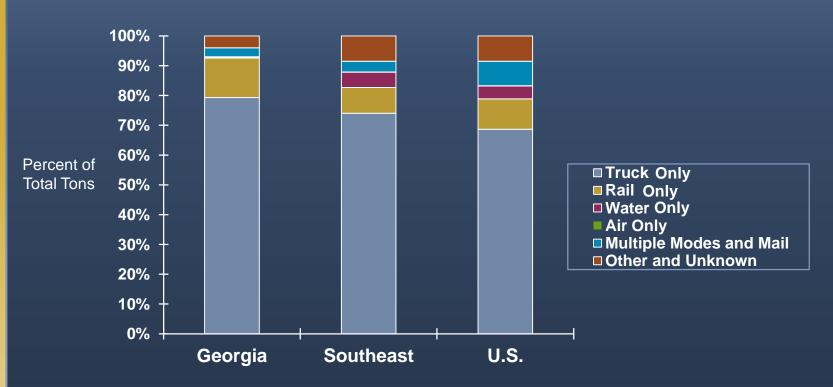
- Atlanta is S.E. rail hub for two "Class One" railroads (CSX & NS)
 - Also distribution center hub for many truck-based logistics operators
- Hartsfield Jackson is 10th busiest U.S. air cargo airport
- Georgia's newest intermodal yard in Cordele (direct connection to Savannah Port via shortline RR)



Statewide Perspective *Freight Mode Distribution*



- Georgia's modal distribution:
 - » Higher truck mode share
 - » Higher rail carload (non-intermodal) mode share
 - » Lower inland waterway flows share

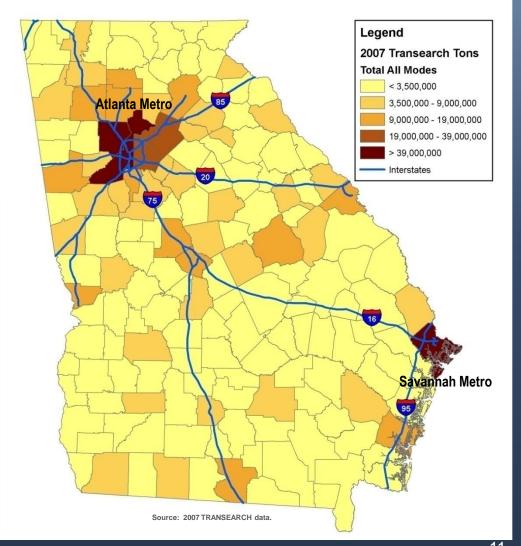




Statewide Perspective Georgia's Primary Freight Hubs



- Most freight flows generated at two hubs
 - » Savannah Metro
 - » Atlanta Metro
- Economic Relationships?





Port of Savannah complex



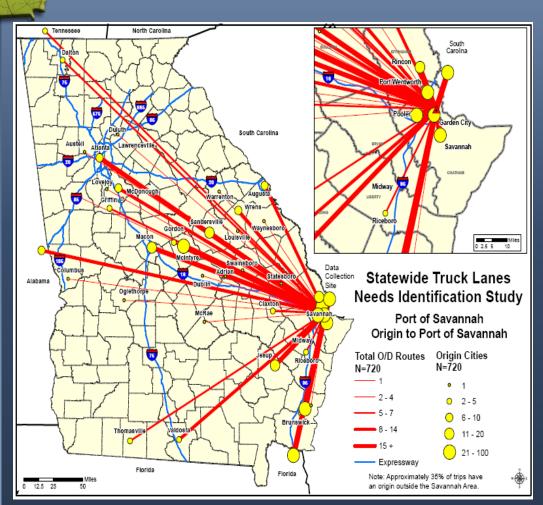






Port of Savannah complex Truck Origin-Destination Patterns





- Generates approx. 8,000 total daily truck trips
- 60+ % of trucks travel to/from a local warehouse
 - » Later distributed across GA and U.S.
- Local & long haul roads are critical

Source: GDOT Statewide Truck Lane Needs Identification Study: truck origin-destination surveys



Port of Savannah's U.S. "Trading Partners" From a Rail Perspective...



4	Rail	
Trading	Intermodal	Percent
Partner	Tons	of Total
Atlanta	1,056,240	33%
Tennessee	889,600	28%
Florida	375,240	12%
North Carolina	234,800	7%
Rest of U.S.	636,288	20%
Total	3,193,168	100%

Trading Partner	Rail Carload Tons	Percent of Total
Rest of Georgia	5,181,072	50%
North Carolina	775,212	8%
Florida	731,932	7%
Virginia	583,613	6%
Atlanta	305,872	3%
Rest of U.S.	2,732,460	26%
Total	10,290,161	100%





Source: 2007 TRANSEARCH data.

Freight Metro Regions Significance of Atlanta



Atlanta is 2nd largest "inland port" region in the country

Top Metro Regions for Freight Tonnage	Total Tons (millions)
Houston, TX	976,088
L.ALong Beach, CA	860,836
Chicago, IL*	636,160
San FranOakland, CA	431,578
Atlanta, GA*	428,103
New Orleans, LA	406,461
Dallas, TX *	361,445
New York, NY	344,832
Miami, FL	324,128
Seattle, WA	294,384

Source: 2007 BTS Commodity Flow Survey.

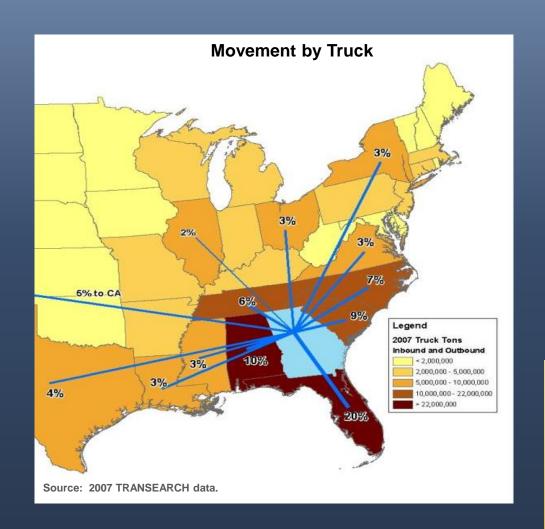


^{* &}quot;Inland ports"

Metro Atlanta's U.S. "Trading Partners" Economic Relationships With Larger Region



- Truck: Almost ²/₃ of all truck tonnage goes to/from the Southeast
- » Rail: Most freight rail to/from AL, KY, VA, LA, IL & throughout the U.S.



U.S. Air Cargo Gateways Atlanta's Economic Potential



Airport	Market Type	*Tons, 2011 (millions)
Memphis	FedEx Integrator Hub	3.7
Anchorage	Trans-Pacific Transfer Operations	2.0
Louisville	UPS Integrator Hub	1.9
Miami	Primary Latin America Gateway	1.6
Los Angeles	Primary Asian Gateway	1.5
New York/Kennedy	Primary Gateway to Europe; some Asia	1.1
Chicago/O'Hare	Central U.S Core, General International Gateway	1.0
Indianapolis	FedEx Secondary Hub	0.9
Newark/Liberty	FedEx Secondary Hub	0.8
Atlanta	Delta Hub, Southwest presence building	0.6

*Source: Airport Council International Traffic Report, 2011







Georgia's Statewide Freight & Logistics Plan





Georgia's Freight & Logistics Plan: Summary of Key Needs and Issues



Capability

- Constraint of current Savannah Port depth for Post-Panamax ships
- » Some rail weight & container double-stack limitations

Capacity

- » Rail congestion growth in key corridors
- » Metro Atlanta roadway congestion

Connectivity

- » Performance limits of "last mile" roads connecting key intermodal facilities
 - Intermodal rail yards
 - Port of Savannah complex
 - Hartsfield Jackson airport



Georgia's Freight & Logistics Plan: Recommended Marine Strategy



- Deepening the Port of Savannah is the top freight priority
- Developing the Jasper Port is important in the longer-term

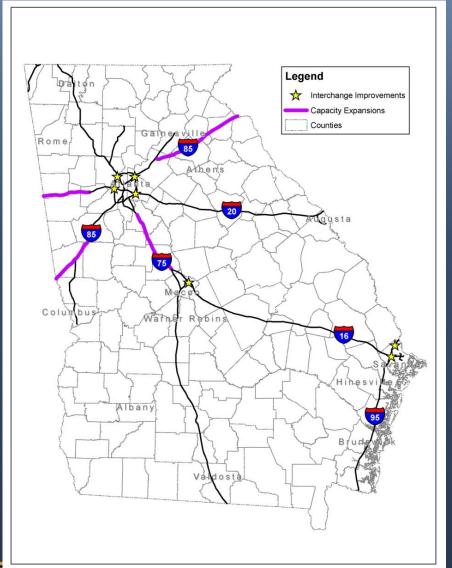




Georgia's Freight & Logistics Plan: Recommended Highway Strategy



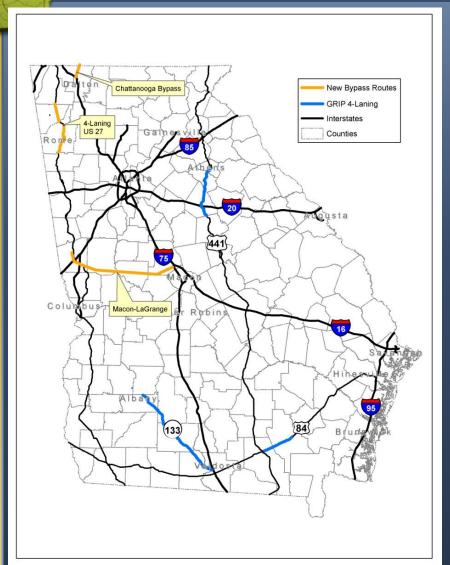
- Select Long-Haul Interstate Capacity Expansions
- Improve Key Interstate Interchanges



Georgia's Freight & Logistics Plan:

Recommended Highway Strategy (cont'd.)





- Improve "bypasses" (alternates)
- Improve select rural/small urban corridors
 - » Rural 4-laning
 - » Safety improvements
- Last-mile connectors
 - » State Route 6 "truck-friendly" lane (metro Atlanta)
 - » Key roads around Savannah Port complex

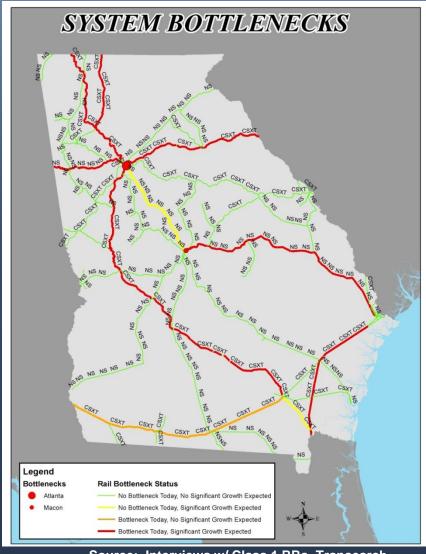


Georgia's Freight & Logistics Plan: Recommended Rail Strategy



- Expand line haul capacity
 - Increase double tracking
 - » Lengthen sidings
- Upgrade to 286K lb. weight limit
- Ensure vertical clearances for double-stack container trains (primarily shortline railroads)





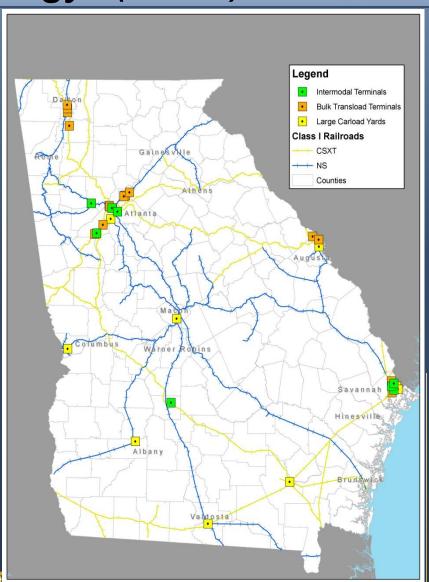
Source: Interviews w/ Class 1 RRs, Transearch data, Consultant analysis



Georgia's Freight & Logistics Plan: Recommended Rail Strategy (cont'd.)



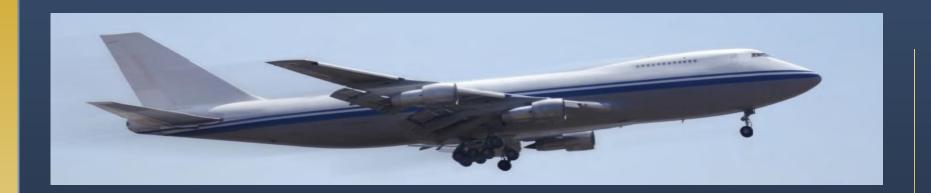
- Expand intermodal terminals in metro Savannah & Atlanta
 - » Existing terminals in urban areas are constrained
- Support continued development of new Cordele intermodal facility
- Expand bulk & carload rail terminals in metro Savannah & Atlanta



Georgia's Freight & Logistics Plan: Recommended Air Cargo Strategy

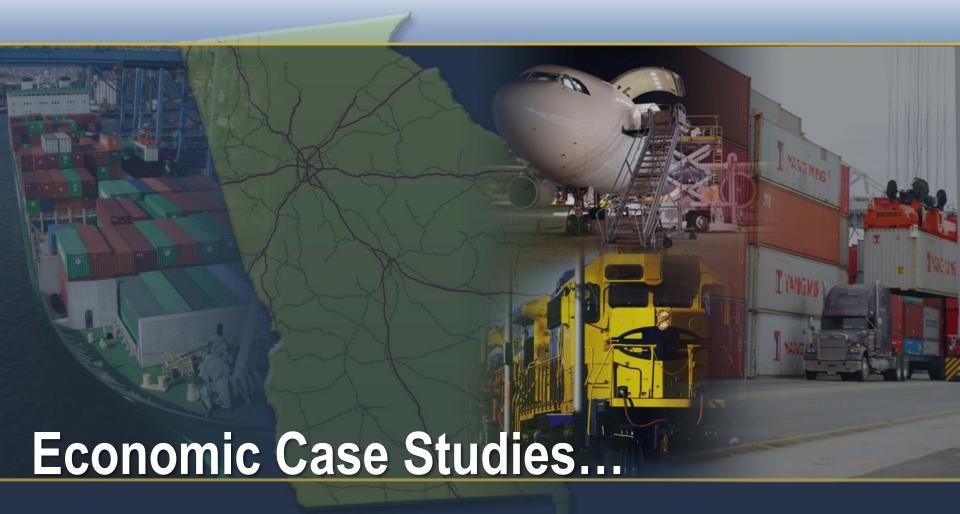


- Additional air cargo space at Hartsfield Jackson Intl. airport
 - » 95% of Georgia's air cargo volume uses this airport
- Extend runway at Southwest Georgia Airport in Albany, Ga.
 - » UPS has package sorting facilities





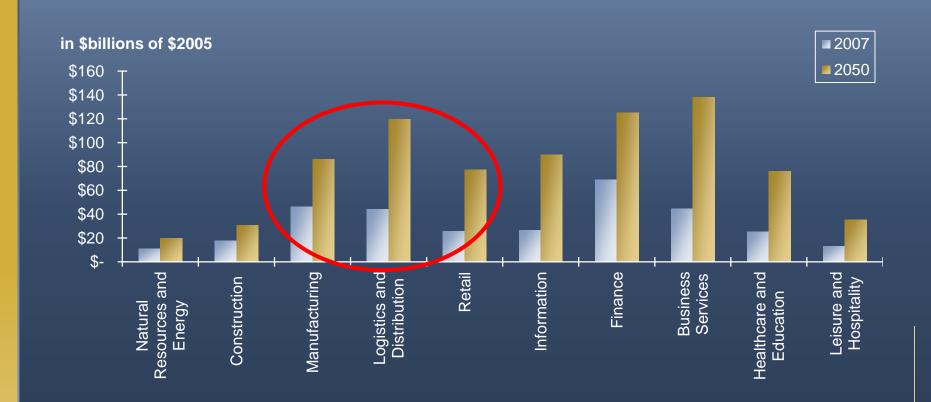
Georgia's Statewide Freight & Logistics Plan





Georgia Freight & Logistics Plan: Economic Evaluation – Select Sectors



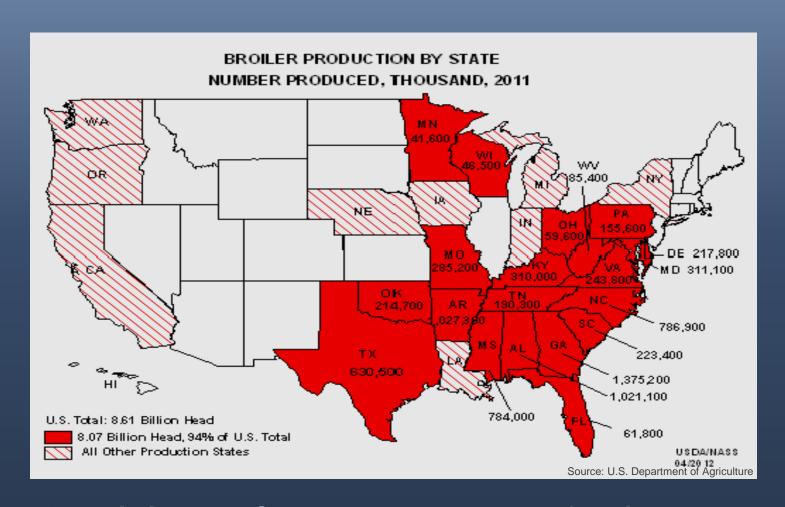


Growth in Freight-Intensive Sectors



Georgia Freight & Logistics Plan: Case Study--Broiler Production





Georgia is top U.S. producer & exporter of broilers



Case Study: Broilers (cont'd.)

Annual value to Georgia's economy: \$4.4 Billion

- The case study focused on one production/distribution center in south-central Georgia.
 Domestically, this facility in Perry, Ga. supplies many Walmarts & Chick-Fil-A in the Southeast.
- Internationally, countries receiving U.S. broiler exports*
 - 1. Mexico
 - Hong Kong
 - 3. Russia

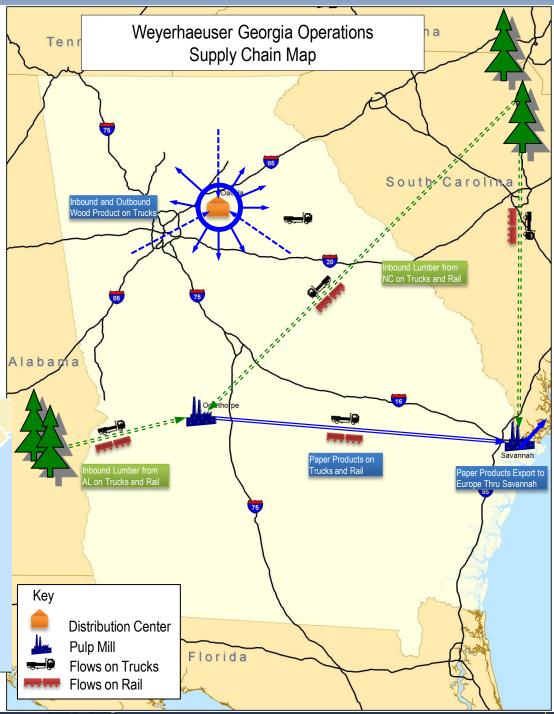


Case Study: Forest Products

Annual value to Georgia's economy: \$25 Billion

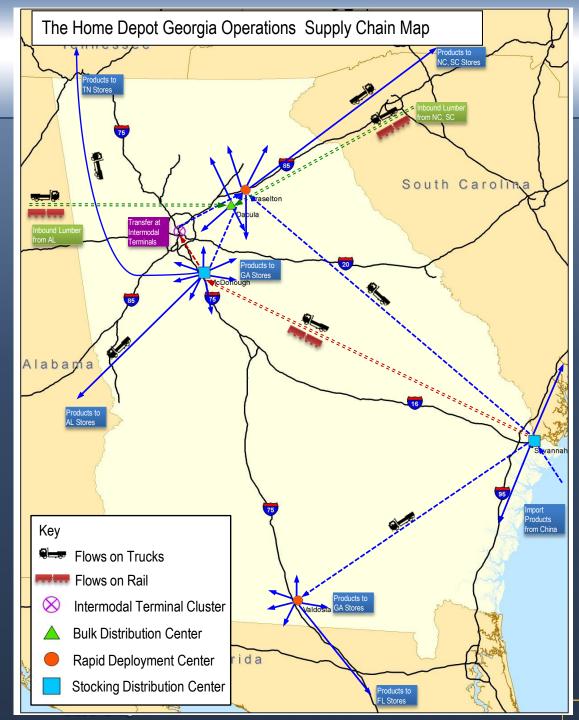
24% of State's total manufacturing output





Case Study: Retail

- The Home Depot is headquartered in Atlanta...stores in US, Canada, & Mexico
- Imports about 20% of their goods through Port of Savannah
- Rapid Deployment & Stocking Centers supply retail stores in Southeast
- Bulk Distribution Center
 - » lumber & building materials for retail stores



Georgia's Statewide Freight & Logistics Plan





Georgia's Freight & Logistics Plan: Financial Summary



	Recommendation	Cost	Economic Impact
Port	Savannah Harbor Deepening	\$550 Million	\$2.8 Billion transportation cost savings
	Jasper Port Development	\$4 Billion	\$9 Billion tax receipts (Ga. & S.C.)
Rail	Line Haul Expansion		\$13.2 - \$19.8 Billion
	Terminal Expansion	\$4 - \$6 Billion	
	Improve Weight Limits & Clearances		
Highway	All	\$9.5 Billion	\$52.5 Billion
Air Cargo	Atlanta Warehouse Capacity		Additional air cargo
	Extend Runway at Albany Airport	\$15-\$20 Million	capabilities

Economic Return-On-Investment

gia Department of Transportation
Office of Planning

Example: State Route 307 / Rail Grade Separation







Thank you for your time.



www.dot.ga.gov/freight

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