



House Transportation Committee Presentation Georgia Department of Transportation

February 5th, 2015



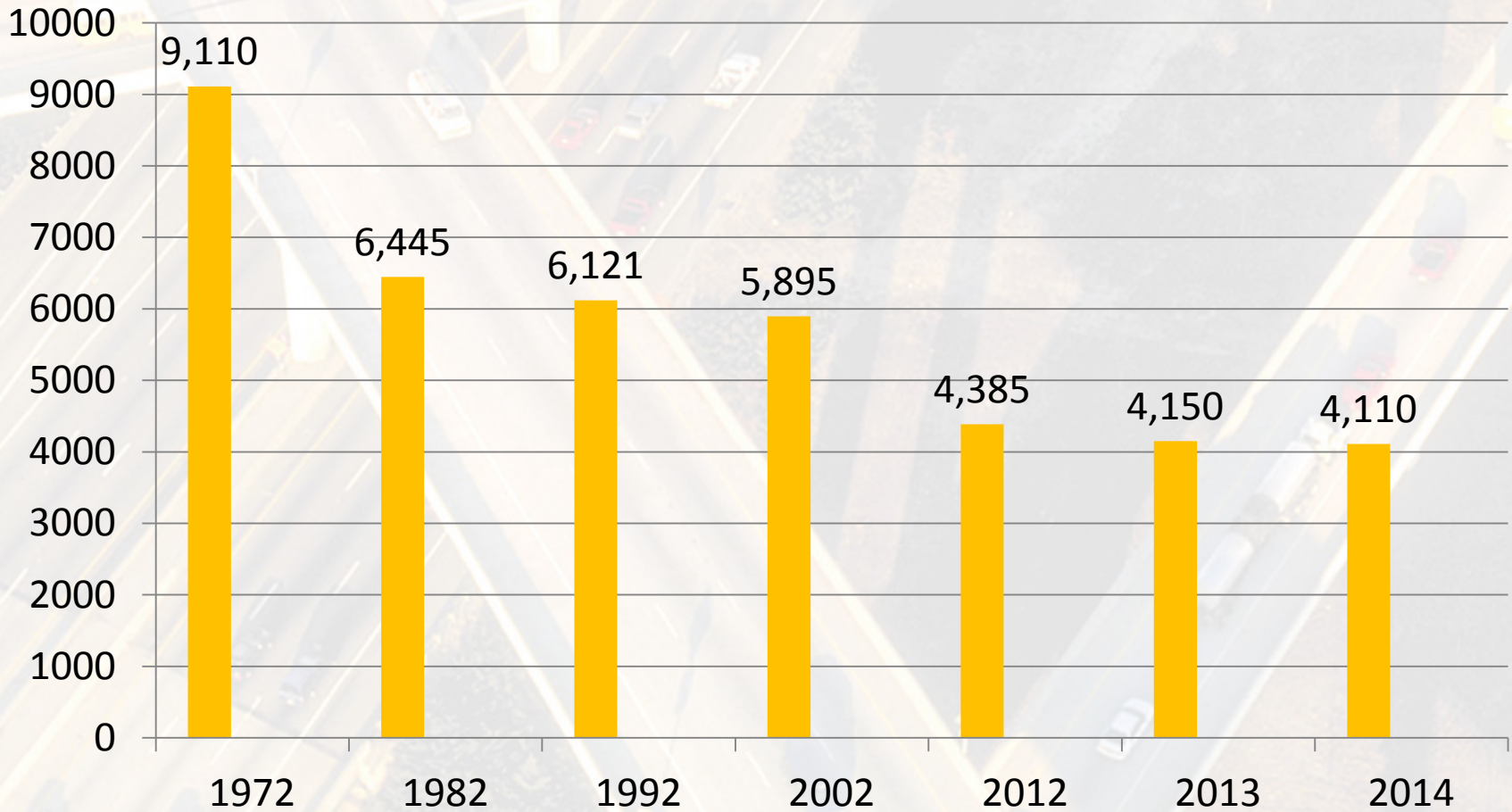
Transportation in Georgia

- **10th** Largest Road System in Nation
 - 17,967 Centerline Miles of State Routes/Interstates
 - 85,738 Centerline Miles of County Roads
 - 17,754 Centerline Miles of City Streets
- **14,666** Bridge Structures
- **4,500** Miles of Mainline & Shortline Railroad
- **4th** busiest container port in US (Garden City Terminal)
- **128** Transit Providers
- **103** General Aviation Airports

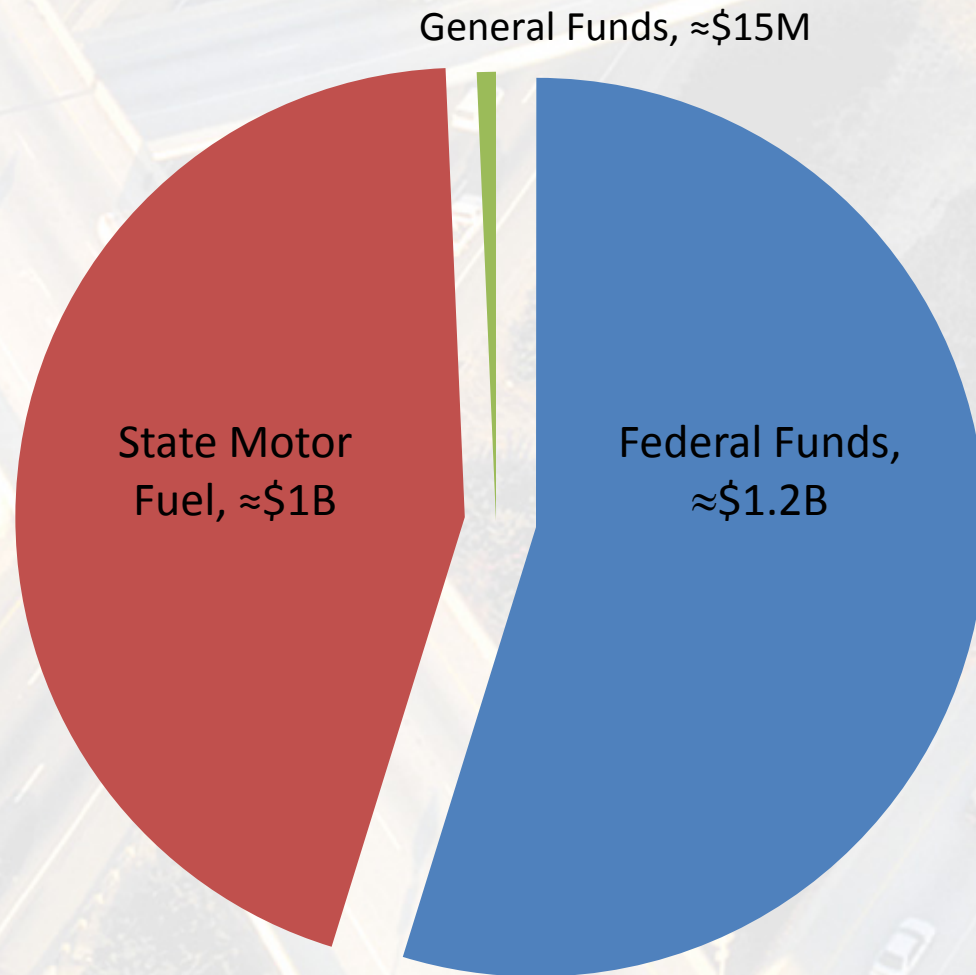
GDOT Responsibilities



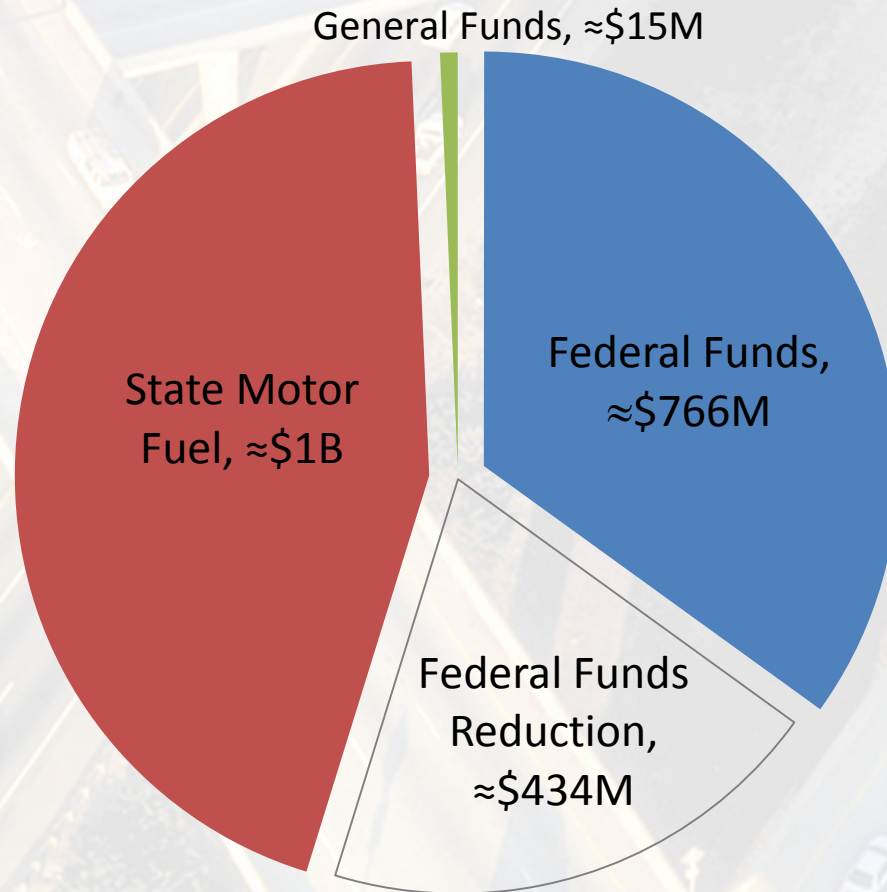
GDOT Staffing



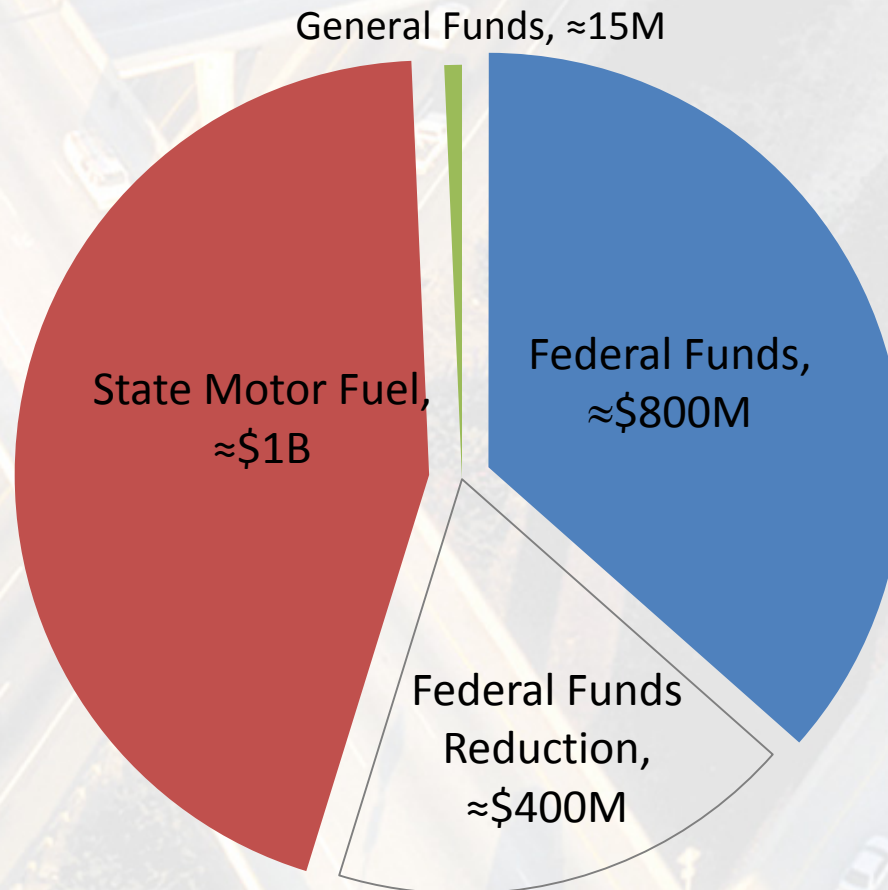
FY 15 GDOT Fund Sources



FY 15 GDOT Fund Sources w/ Current Federal Funding Reduction



Future GDOT Fund Sources (based on current federal gas tax collections)



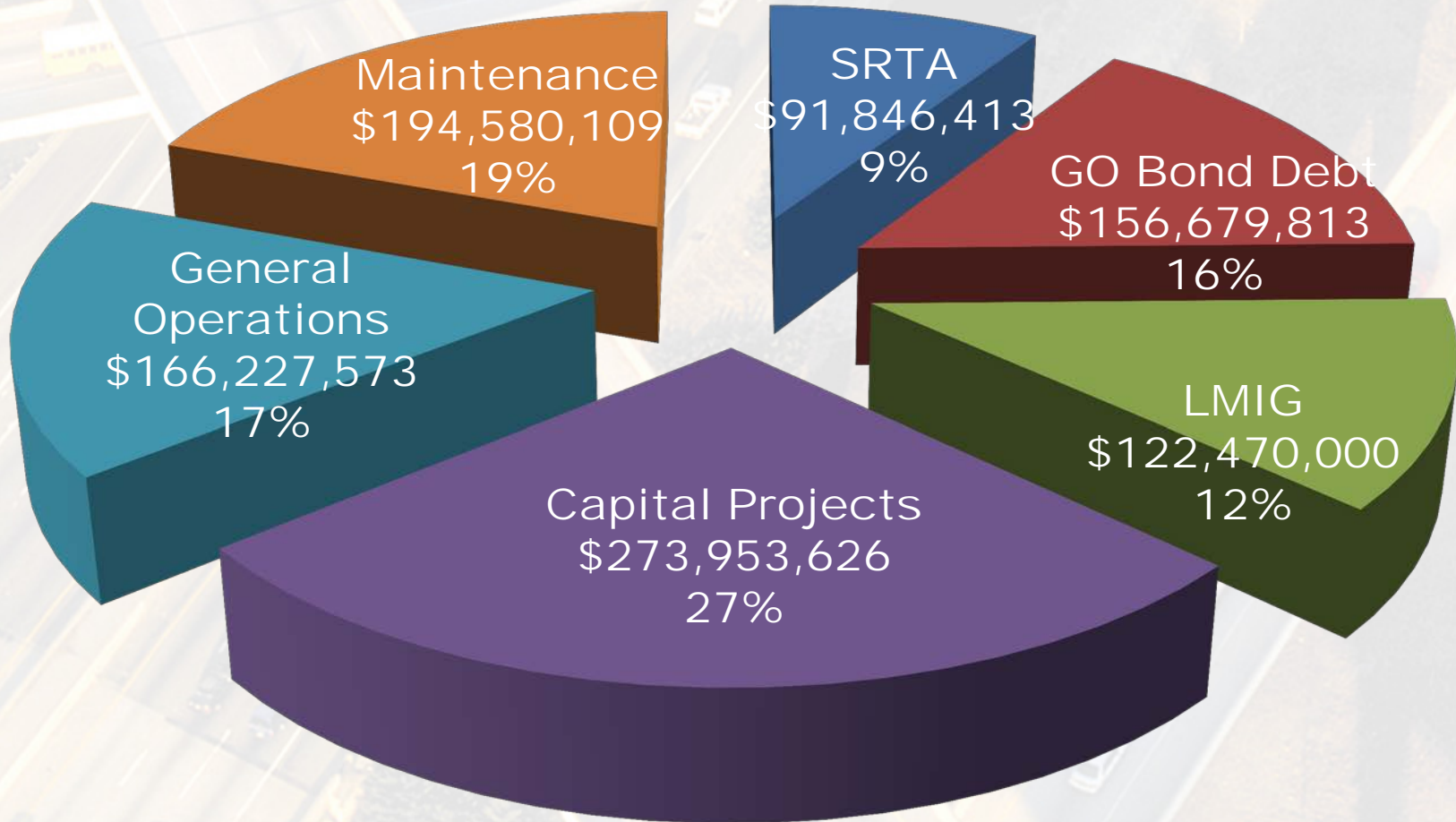
MAP 21 Extension

Georgia Obligation Authority through May, 2015

- \$765.6 Million OA
(\$740.6M excluding SPR and Rec Trail)
- (\$693.1M) FY15 Prior Obligations
- \$47.5M Remaining OA for
PE, ROW, and CST

FY15 State Motor Fuel Budget Final Version HB744

Total State Motor Fuel Budget: \$1,005,757,534



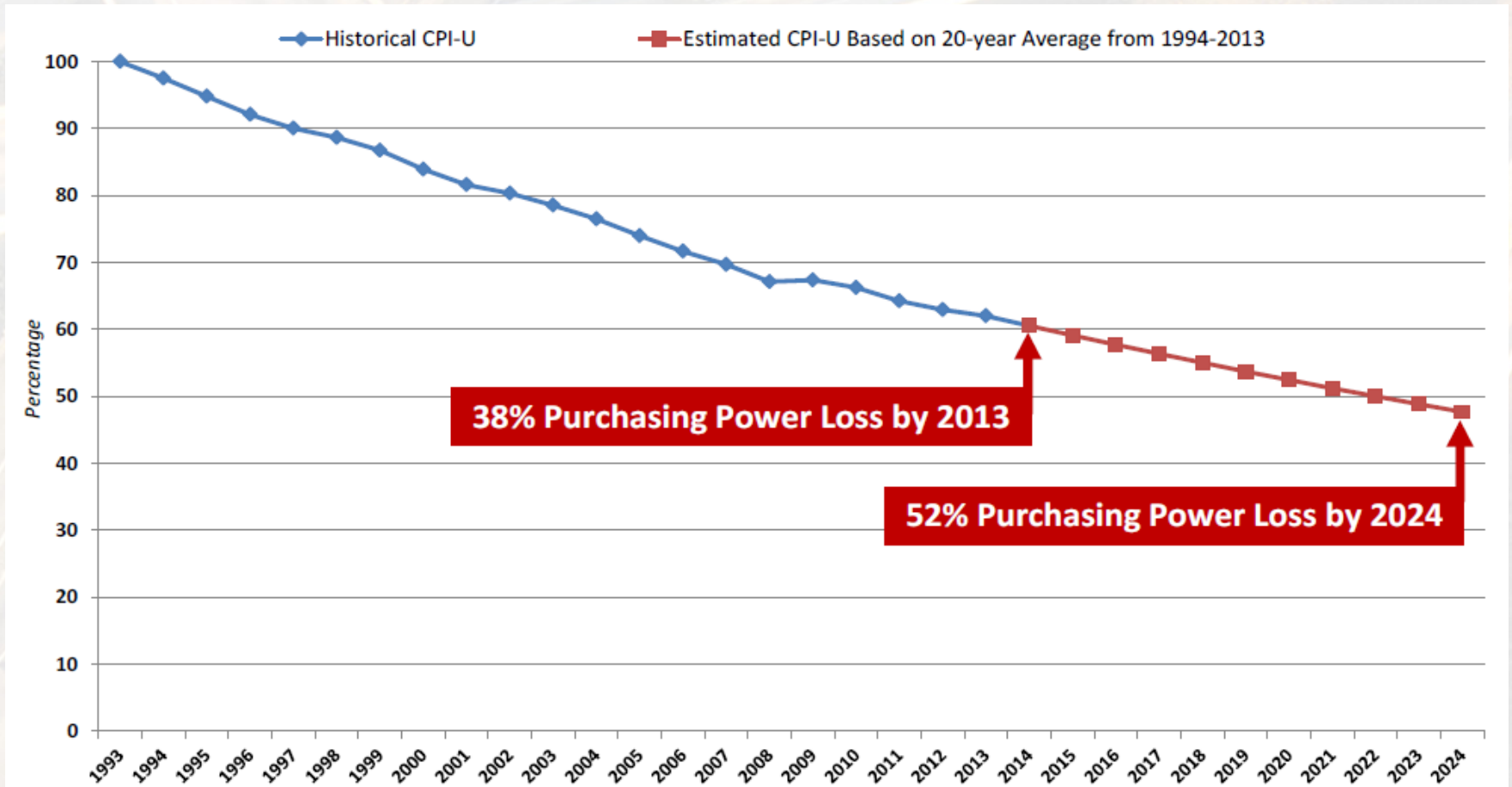
LMIG- Local Maintenance and Improvement Grants Program

Effects of Inflation on Transportation Funds

- In **1971**, **\$1M** would have resurfaced **64.07 miles** of a typical two lane rural highway. In **2011**, **\$1M** would only resurface **6.67 miles** for the same section of highway.

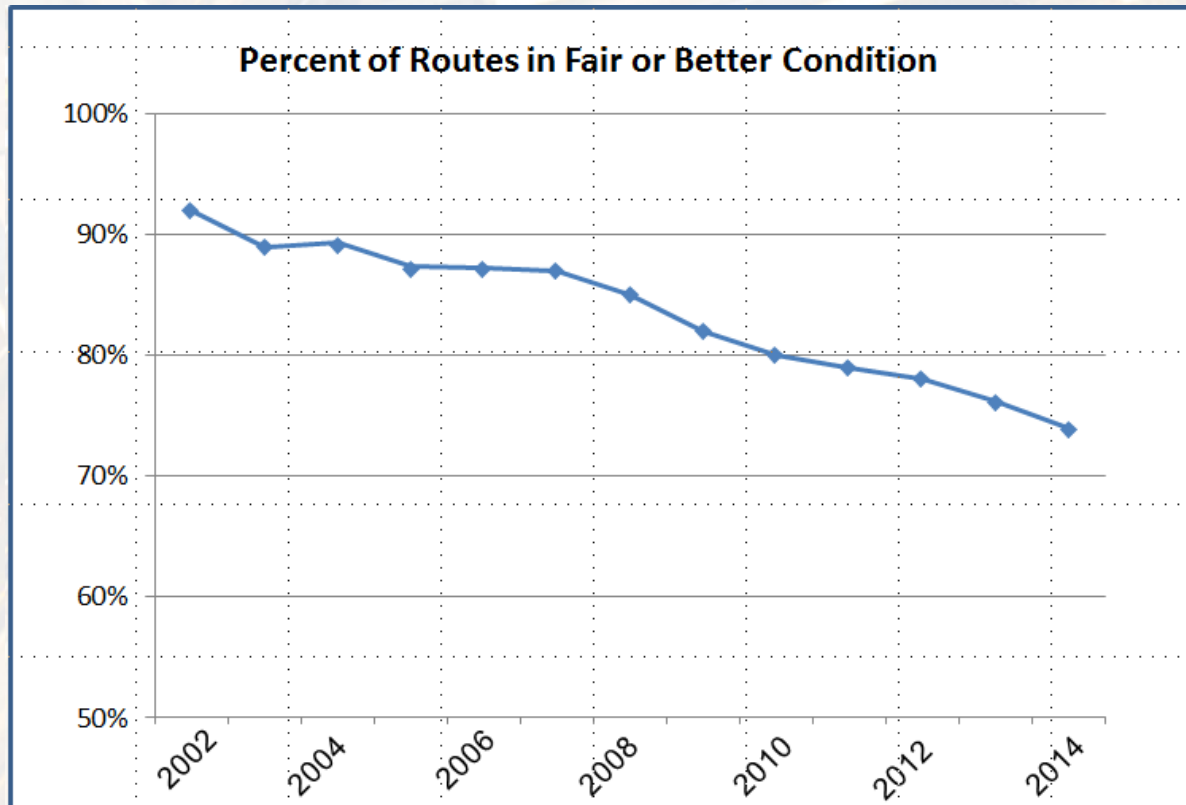
Year	Length (Miles) for \$1M
1971	64.07
1981	17.74
1991	19.55
2001	15.38
2011	6.67

Reduced Purchasing Power (1993 to 2024)



Source: AASHTO

GDOT Needs - Roadway Maintenance



	Current Spending	Annual Needs Level	Additional Funds Needed
Pavement / Resurfacing	\$122M	\$250M	\$128M

Pavement Rating System



FAIR

Slight rutting, aggregate loss,
increasing width of cracking

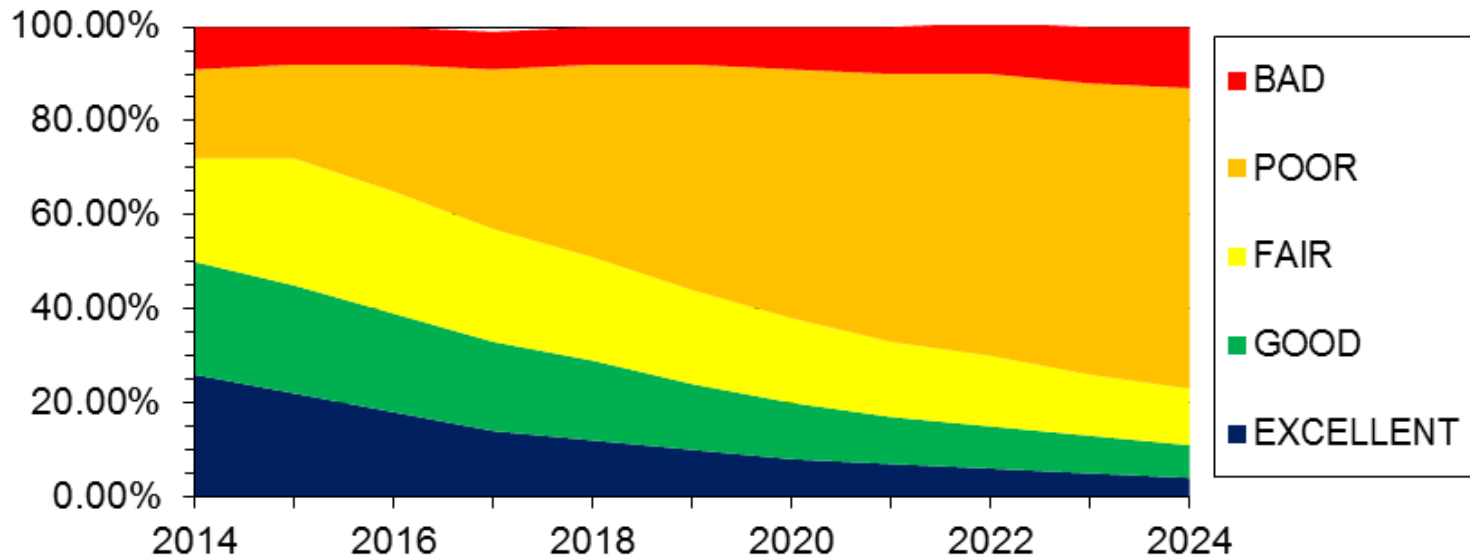


POOR

Deteriorated patching, extensive
cracking, moderate rutting

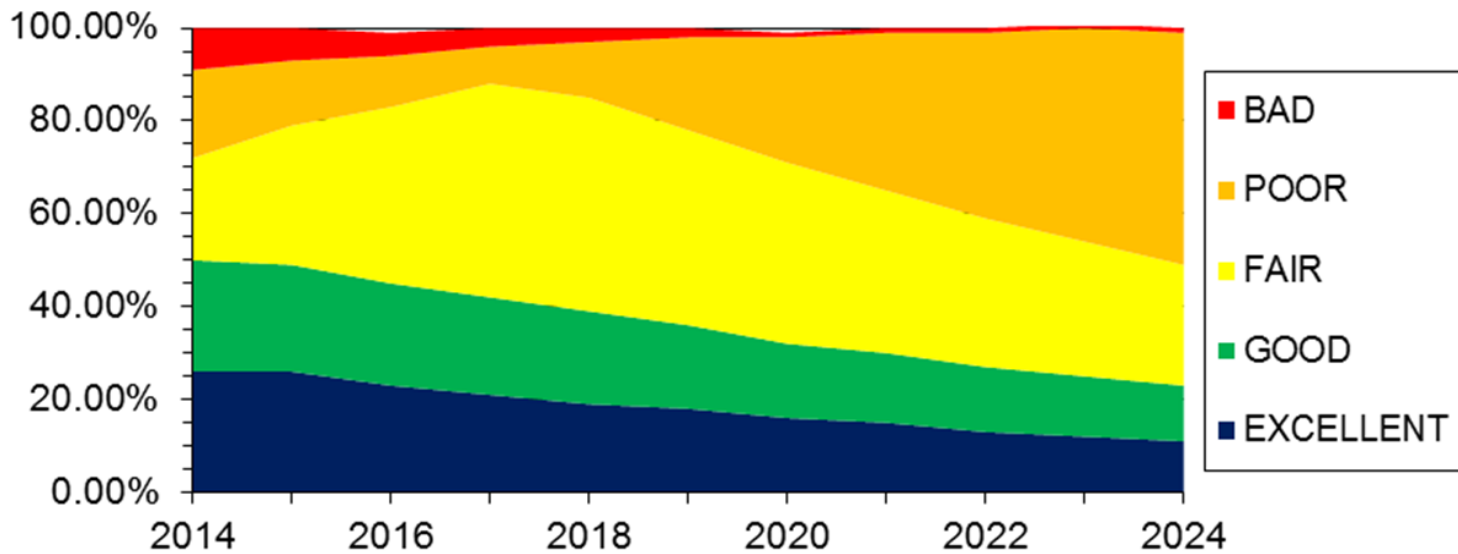
\$100M Budget (2014 Baseline)

Yearly Condition Distribution:



\$300M Budget (2014 Baseline)

Yearly Condition Distribution:



GDOT Needs - Bridge Replacement and Maintenance



8,004 Locally Owned
Bridges and Culverts



6,671 State Owned
Bridges and Culverts

GDOT Needs – Bridge Maintenance

	Current Spending	Annual Needs Level	Additional Funds Needed
Bridges	\$154M	\$610M	\$456M

- Asset Based approach
- Maintaining bridges in a state of good repair enhances local economic engines.

GDOT Needs – Bridge Replacements

- 1,622 GDOT Structures need to be replaced over the next 20 years at a cost of \$322M per year.
 - Should be replacing **89** structures per year to maintain a 75 year life cycle.
- 2,450 locally owned structures need to be replaced over the next 20 years at a cost of \$240M per year.
 - Should be replacing **107** structures per year to maintain a 75 year life cycle.
- In 2014, GDOT replaced **60** bridges.

GDOT Capital Projects Needs

- Mobility
- Freight
- GRIP
- Managed Lanes

	Annual Needs Level	Additional Funds Needed
Total Unfunded Capital Needs	\$1,047M	\$1,047M

	Current Spending	Annual Needs Level	Additional Funds Needed
Managed Lanes	\$140M	\$200M to \$640M	\$60M to \$500M

Georgia Strategic Plan - Mobility



Annual Congestion Costs Trend



GDOT Needs – Capital Projects

Urban Mobility

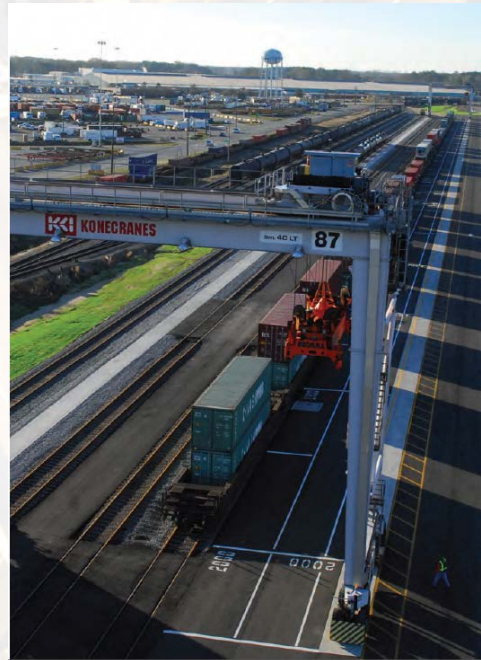
Project	Cost (\$ Millions)	Project	Cost (\$ Millions)
Revive285	\$3,000+	I-85 @ SR 74 (Fulton)	\$22
Rome-Cartersville Econ. Dev. Corridor	\$180	West Winder Bypass (Barrow)	\$28
Sugarloaf Pkwy Extension	\$300	SR 138 Widening (Rockdale)	\$105
SR 316 Interchange (Barrow)	\$45	SR 162 Widening (Rockdale/Newton)	\$23
SR 20 Widening (Cherokee/Forsyth)	\$110	SR 140 Widening (Cherokee/Bartow)	\$165
SR 92 Widening (Cobb/Paulding)	\$125	SR 369 Widening (Forsyth)	\$53
		Total	\$4,156

GDOT Needs – Capital Projects

Rural Mobility

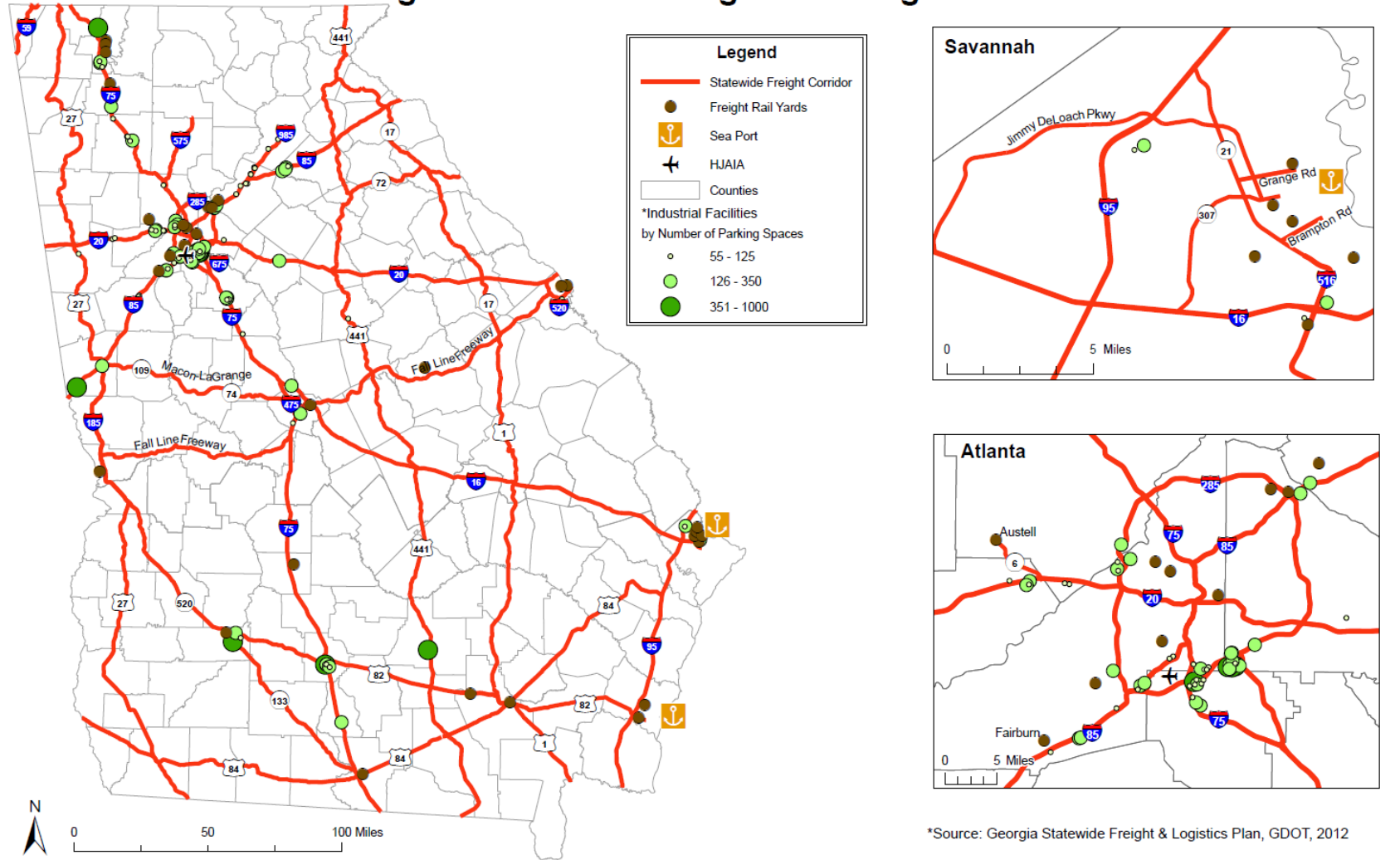
Project	Cost (\$ Millions)	Project	Cost (\$ Millions)
SR 5/McCaysville Bypass (Fannin)	\$35	SR 36 Widening (Lamar/Upson)	\$121
SR 101 Improvements (Floyd)	\$90	SR 115 Widening (Lumpkin)	\$47
SR 166 Widening (Carroll)	\$45	Cleveland Bypass Phase III (White)	\$8
SR 96 Widening (Houston/Twiggs)	\$90	SR 99 Widening (Glynn)	\$105
SR 10 Improvements (Clarke)	\$35	SR 107 Widening (Ben Hill)	\$35
Hinesville Bypass (Liberty)	\$12	SR 11/US 129 Widening (Union)	\$42
Sparta Bypass (Hancock)	\$9	Total	\$674

Georgia Strategic Plan - Freight



GDOT Needs – Capital Projects (Freight)

Georgia's Statewide Designated Freight Corridor



*Source: Georgia Statewide Freight & Logistics Plan, GDOT, 2012

GDOT Needs – Capital Projects (Freight)

Long Haul Capacity:

Project	Cost (\$ Millions)
I-85: ATL to SC Line	\$800
I-85: ATL to AL Line	\$450
I-20: ATL to AL Line	\$800
I-75: ATL to Macon	\$1,100
I-20: ATL to SC Line	\$3,000
I-95: FL Line to SC Line	\$1,600
I-75: Macon to FL Line	\$1,000
I-75: ATL to Chattanooga	\$2,700
I-16: Macon to Savannah	\$1,900
Total	\$13,350

Source: Georgia Statewide Freight and Logistics Plan (2012)

GDOT Needs – Capital Projects (Freight)

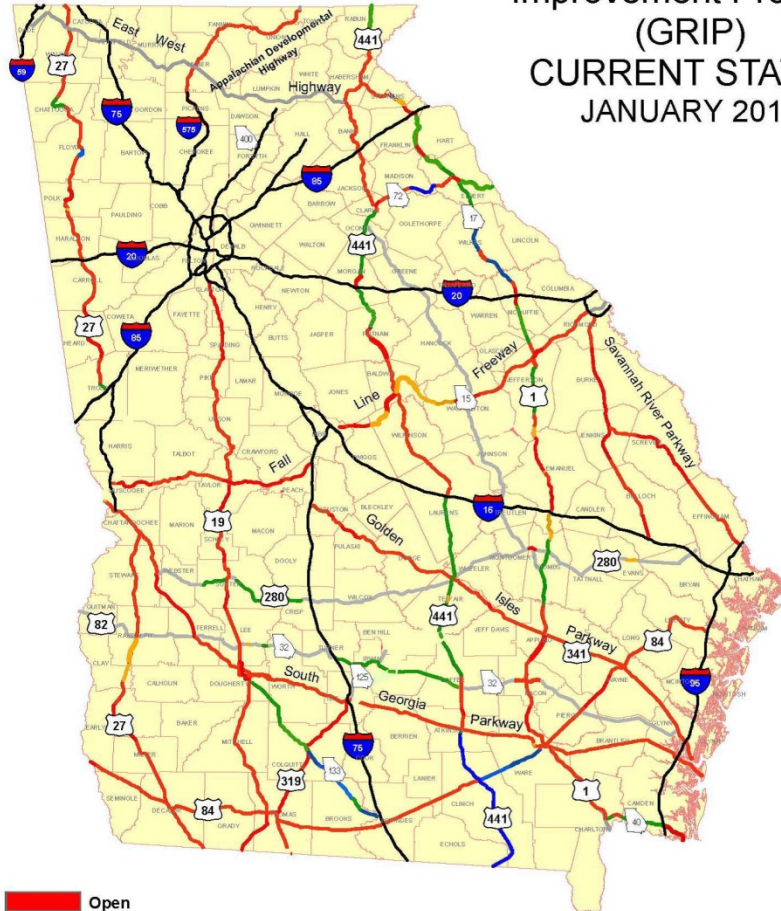
Interchanges/Other:

Project	Cost (\$Millions)
I-16 @ I-75	\$300
I-285 @ I-20W	\$450
I-285 @ I-20E	\$250
I-16 @ I-95	\$70
I-20 @ Savannah River	\$41
Brampton Road Connector	\$24
Sandersville Bypass	\$21
Total	\$1,156

Source: Georgia Statewide Freight and Logistics Plan (2012)

GDOT Needs – Capital Projects (GRIP)

Governor's Road Improvement Program
(GRIP)
CURRENT STATUS
JANUARY 2014



- Open
- Under Construction
- Right of Way
- Preliminary Engineering
- No Activities

GDOT Needs – Capital Projects (GRIP)

GRIP Corridor	Cost to Complete (\$ Million)	GRIP Corridor	Cost to Complete (\$ Million)
Appalachian Development Corridor	\$15	US 280	\$1,400
SR 72	\$150	SR 32	\$1,250
US 1/SR 17	\$775	SR 40	\$60
US 27	\$375	East-West Highway	\$550
US 441	\$800	SR 15	\$920
US 84	\$110	SR 125	\$170
SR 133	\$270	Total	\$6,840

Source: GDOT GRIP Fact Sheet (January 2014)

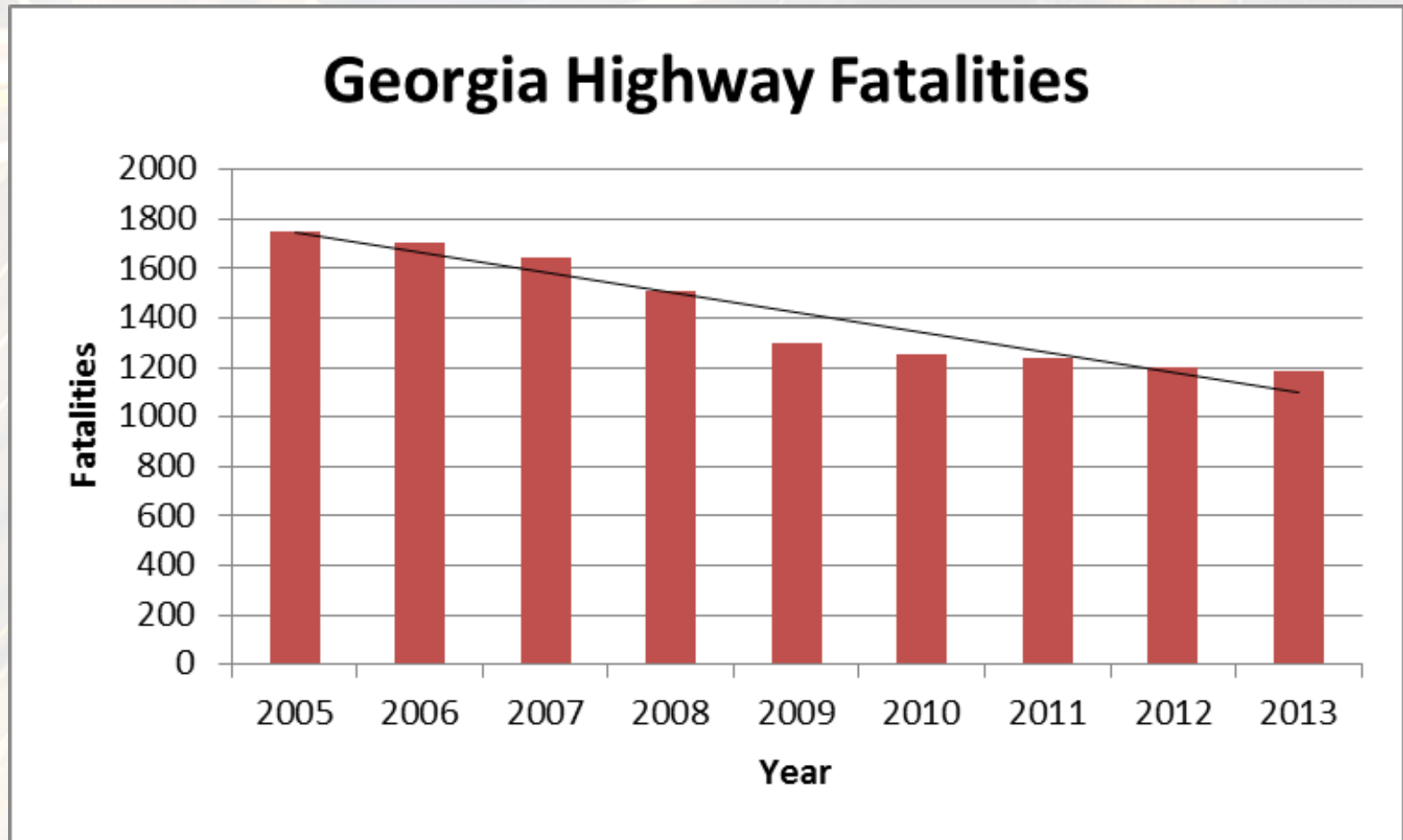
GDOT Needs – Traffic Operations

- HSIP Program
- Operational Program
- Incident Management



	Current Spending	Annual Needs Level	Additional Funds Needed
Traffic Operations	\$135M	\$170M	\$35M

Georgia Strategic Plan - Safety



GDOT Needs - Intermodal

- Rail
- Airport Aid
- Transit
- Ports and Waterways

	Current Spending	Annual Needs Level	Additional Funds Needed
Intermodal	\$82M	\$303M	\$221M

GDOT Needs - Intermodal

- **Georgia Airport 5 year Capital Improvement Plan - \$924M Total Cost**
 - (\$18.6M State match/year)
- **Annual maintenance cost of \$30M for airfield pavement**
 - **Work is being deferred resulting in declining pavement ratings**

GDOT Needs - Intermodal

- **Annual Transit (Excluding GRTA & MARTA) need of \$5.6M to match \$41M in federal funds.**
- **Short Line railroad rehab and maintenance costs total \$836M over 20 years (\$41.8M/year)**

GDOT Needs – Routine Maintenance



	Current Spending	Annual Needs Level	Additional Funds Needed
Routine Maintenance	\$200M	\$400M	\$200M

GDOT Needs – Routine Maintenance

- Mowing and litter pickup
- Vegetation removal
- Repair of fencing and sound barriers
- Operation and maintenance of rest areas and welcome centers
- Replacement of signs, striping and raised pavement markers,
- Guardrail, barriers and attenuators
- Pipes and drainage structures

GDOT Needs – Routine Maintenance

- Response to emergency events
 - TORNADOS, tropical storms, snow/ice, flooding



Exemptions OCGA 48-8-241

- Fuel for off-road heavy duty, farm or agriculture equipment; and locomotives
- Jet fuel for use by a qualifying airline
- Fuel for propulsion of motor vehicles on public highways
- Energy used in manufacturing or processing tangible goods
- Motor fuel for Mass Transit

TIA Region Projects

Unconstrained List vs. Final List

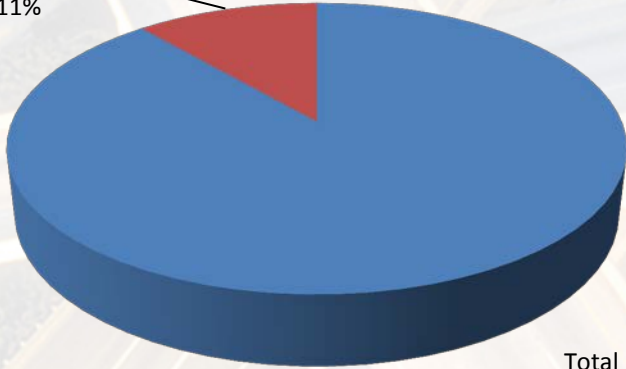
Region	Unconstrained Project Total	Unconstrained Cost Total	Final Project Total	Final Cost Total
Central Savannah River Area	185	≈\$2.5B	85	≈\$539M
Heart of Georgia Altamaha	1,318	≈\$1.2B	763	≈\$256M
River Valley	115	≈\$1.4B	24	≈\$539M

Each region approved a final list of projects (fiscally constrained by collection projections) from the unconstrained lists of projects.

How do we compare?

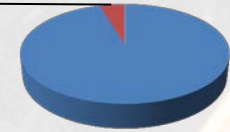
Florida, \$5.1B

Total Debt Service, \$660M, 11%



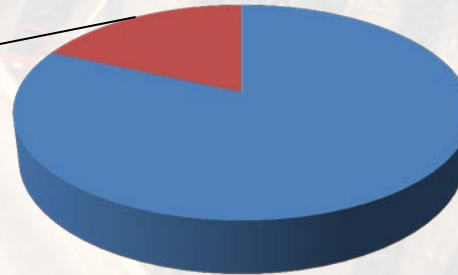
South Carolina, \$1.3B

Total Debt Service, \$64M, 5%



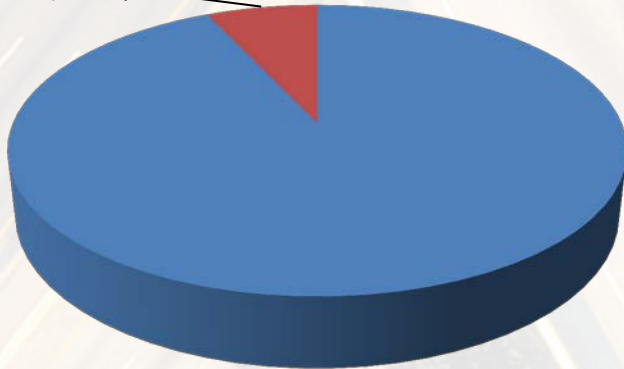
Georgia, \$2.2B

Total Debt Service, \$402M, 18%



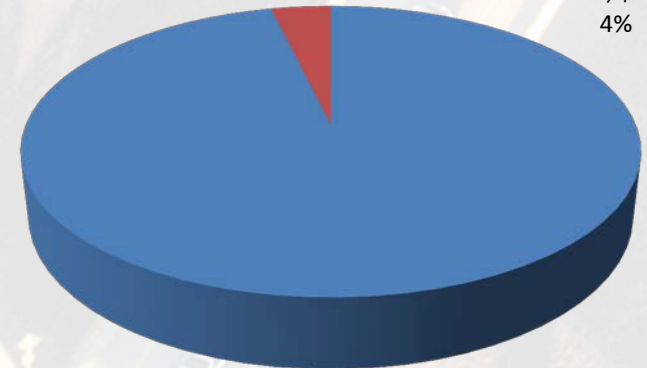
Virginia, \$4.3B

Total Debt Service, \$320M, 7%



North Carolina, \$4.3B

Total Debt Service, \$160M, 4%



Additional Capital and Maintenance Needs

	Additional Funds Needed
Pavement / Resurfacing	\$128M
Bridges	\$456M
Routine Maintenance	\$200M
Traffic Operations	\$35M
Intermodal	\$221M
Total Unfunded Capital Needs	\$1,047M
Managed Lanes	\$60M to \$500M
<i>Total Additional Needed</i>	<i>\$2,147M to \$2,587M</i>

Additional needs does not include funding for LMIG, debt, general operations and current capital spending.

Questions?

