



The State of SCDOT

Presented: February 1, 2017
Secretary Christy A. Hall, P.E.





*As we enter our Centennial Year,
we have much to do together.*



Looking Back over the past 12 months

- ✓ Responded & Recovered from Natural Disasters.
- ✓ Good LAC Review. \approx 75% items already implemented.
- ✓ Increased Transparency with reporting.
- ✓ Improved Communications, especially via social media.
- ✓ Established a 10-year plan for our programs.

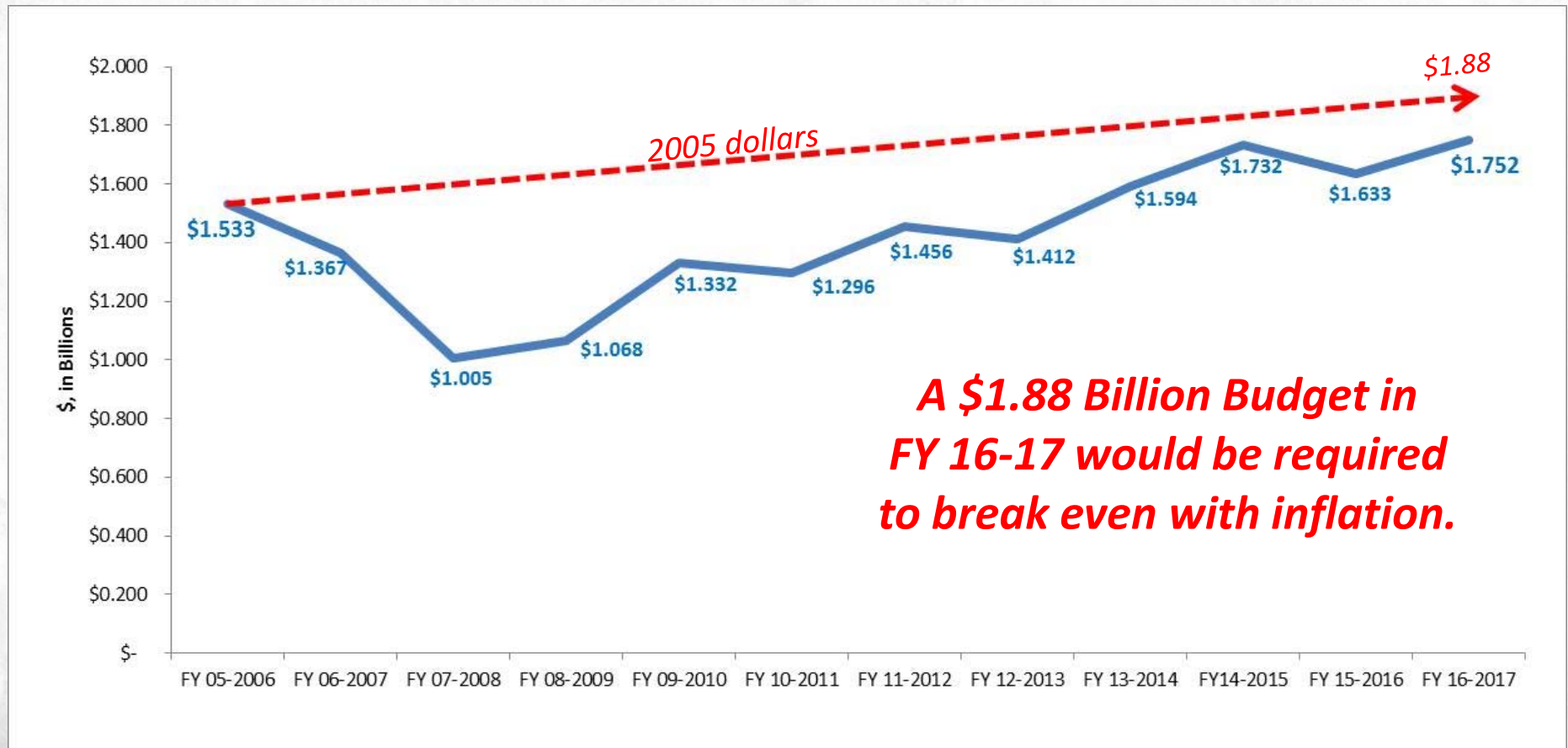
Good first steps: 2013 & 2016 Funding

- + **\$329M** in *increased road & bridge funds annually; and*
- + **\$316M** in one-time *road & bridge funds primarily for CTCs.*

2013 & 2016 Funding combined with our Federal Funds

- ✓ *Jump started and grew our Interstate Widening Program to 5x more projects than before.*
- ✓ *Doubled our paving program.*
- ✓ *Launched a significant bridge program to eliminate all Load-Restricted bridges and structurally deficient bridges on our Interstates and major primary routes.*

SCDOT Budget History



**A \$1.88 Billion Budget in
FY 16-17 would be required
to break even with inflation.**

Investment Yields

- ✓ ***Address 2/3 of our 10-year interstate widening needs.
But, we are missing some key segments.***
- ✓ ***We can marginally improve the condition of our pavements.
But, we have waited too long and have a deep hole to
climb out of.***
- ✓ ***Make significant improvements on our bridges.
But, ≈400 structurally deficient bridges will remain.***

The Remaining Gaps on the Existing System



Safety

Pavements

Routine Maintenance

Bridges

Widenings

Transit

“The goal of the department is to provide adequate, safe, and efficient transportation services for the movement of people and goods.”

SECTION 57-1-30



Adequate, Safe and Efficient System?

*The real cost of
deferred maintenance.*



**Fatality Rate
in the Nation**
2015

Safety

Over the past 5 years in our rural areas there have been

6,812 crashes

that resulted in either a fatality or serious injury.

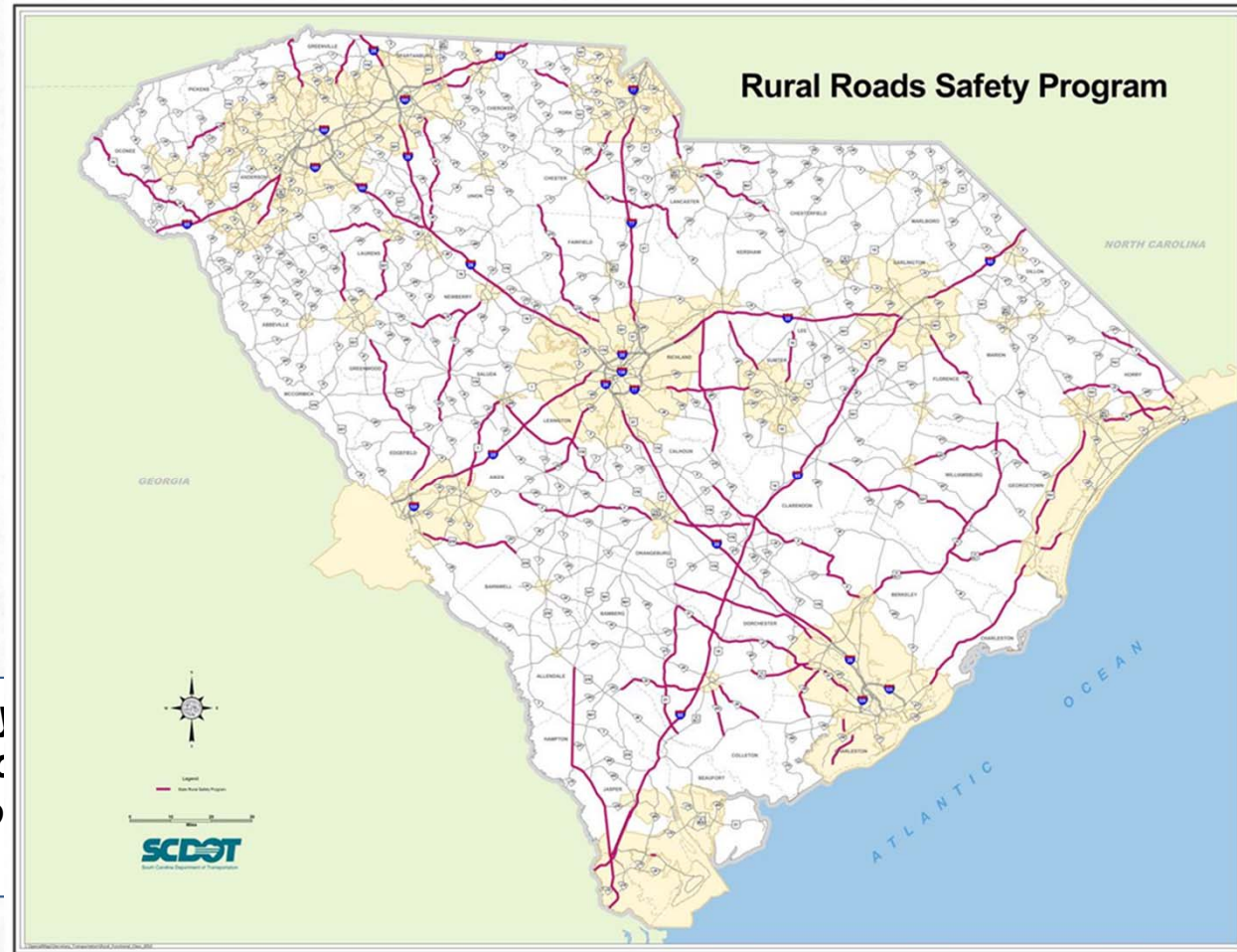


2011-2015 Fatalities &
Serious Injury Crashes
in our Rural Areas

Safety

Nearly **30%** of fatalities and serious injury crashes in our rural areas are occurring on just over **5%** of our network.

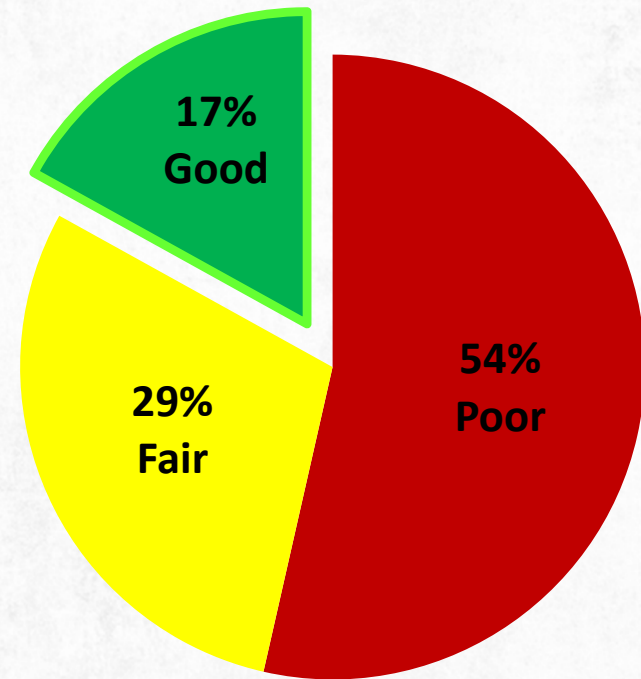
Begin by
miles of
solution



Adequate, Safe and Efficient System?

We have waited too long.

The majority of our pavements now need reconstruction.

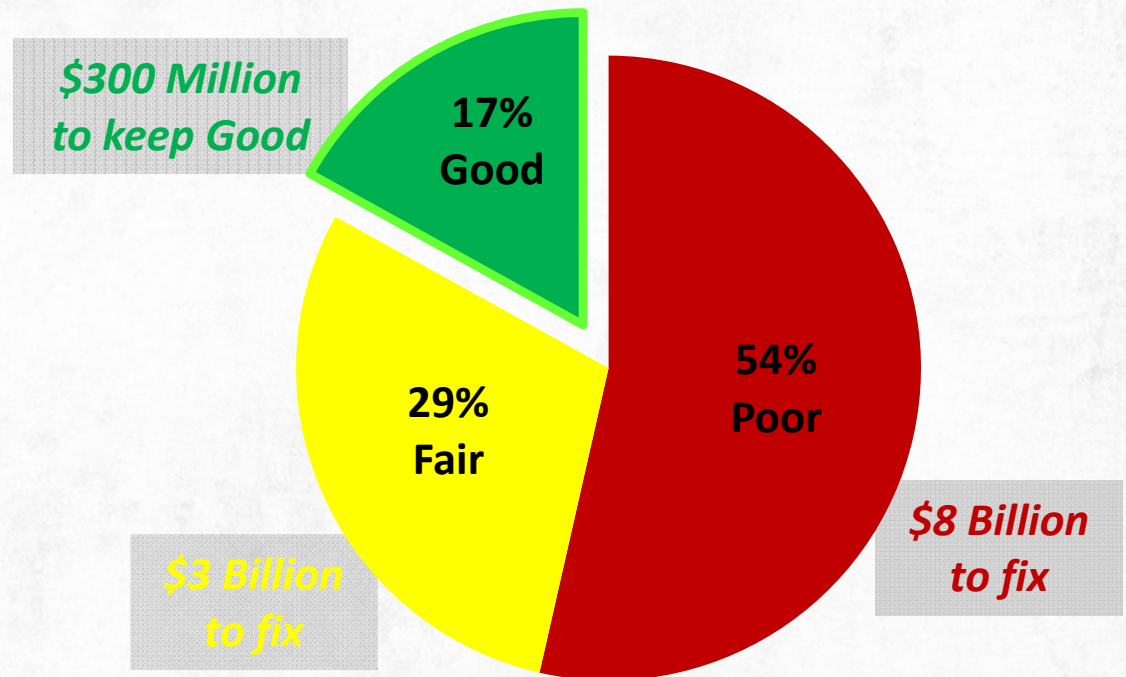


Condition of Our Pavements

Adequate, Safe and Efficient System?

*We are currently spending:
\$415 M a year on pavements.*

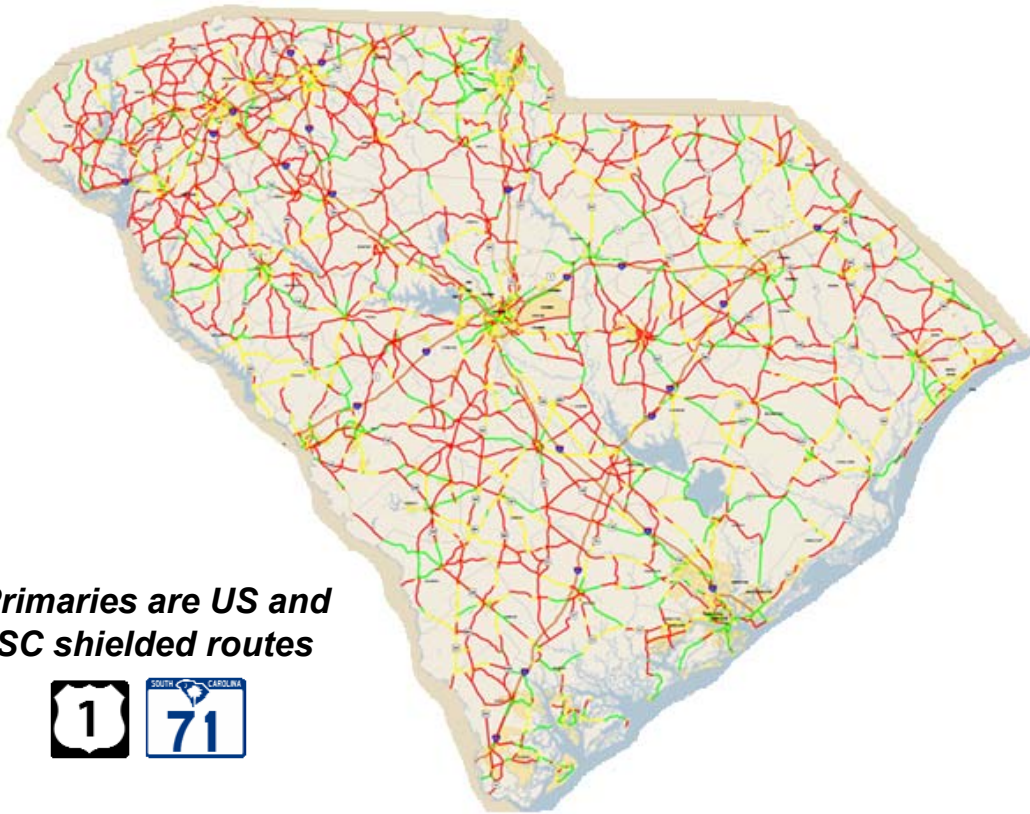
*We should be spending:
≈\$900 M a year.*



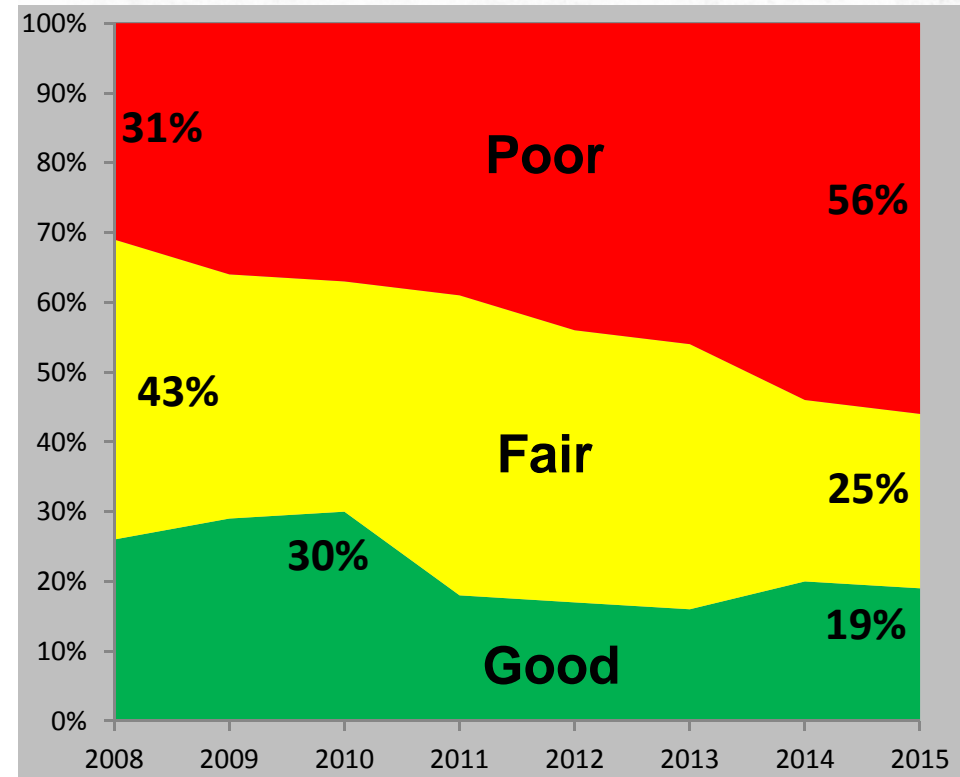
Condition of Our Pavements

Pavement Conditions of the Primary System

Nearly half of all travel in SC occurs on these 9,469 Miles



Primaries are US and SC shielded routes



Adequate, Safe and Efficient System?

Our state is growing rapidly and we have not been able to keep up.

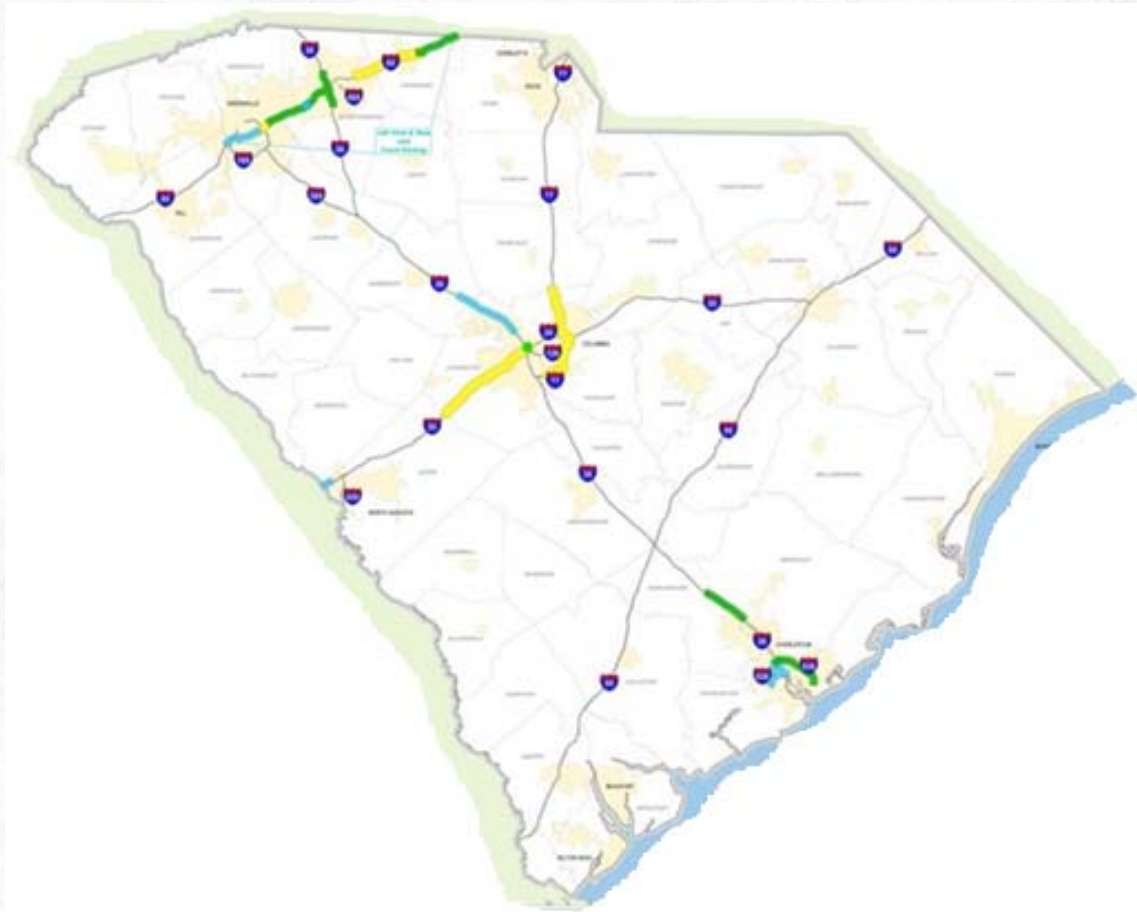
SCDOT does not have its own non-interstate widening program.



Our citizens in our urban areas spend an average of 30 hours a year stuck in traffic.

10-year Interstate Widening Program

Even though we are thankful to be able to begin the much-needed projects to widen \approx 140 miles of our existing interstates, some major gaps remain.





We have much to do together.



Greatest Areas of Need?

- ❑ *Begin a Rural Road Safety Program.*
- ❑ *Increase our Resurfacing Program.*
- ❑ *Widen roads along our freight network, both on and off of the interstate.*
- ❑ *Increase Routine Maintenance in order to address the backlog of deferred day-to-day needs of the system.*
- ❑ *Replace more Structurally Deficient Bridges.*
- ❑ *Improve Transit to move people more efficiently.*

Investment Scenarios

	\$600M Additional Investment		\$800M Additional Investment		~\$1 B Additional Investment	
Priorities	Additional Annual Investment	TAMP Targets	Additional Annual Investment	TAMP Targets	Additional Annual Investment	TAMP Targets
Make our Roads Safer	\$50	Target our deadliest roads in rural communities. Nearly 30% of our rural fatalities & serious injuries are occurring on just over 5% of our network.	\$50	Target our deadliest roads in rural communities. Nearly 30% of our rural fatalities & serious injuries are occurring on just over 5% of our network.	\$50	Target our deadliest roads in rural communities. Nearly 30% of our rural fatalities & serious injuries are occurring on just over 5% of our network.
Improve Pavement Conditions	\$300	Primaries to 58% GOOD Interstates to 95% GOOD FA Secondaries to 40% GOOD NFA Secondaries to 30% GOOD Target \$50M to complement Safety Program	\$400	Primaries to 58% GOOD Interstates to 95% GOOD FA Secondaries to 55% GOOD NFA Secondaries to 50% GOOD Target \$50M to complement Safety Program	\$500	All Pavements have been brought up to a state of good-repair.
Increase Mobility along Freight Network	\$200	Additional investments for interstate widenings and launch a non-interstate freight mobility program.	\$200	Additional investments for interstate widenings and launch a non-interstate freight mobility program.	\$200	Additional investments for interstate widenings and launch a non-interstate freight mobility program.
Deliver Better Routine Maintenance	\$60	Achieve a "C" Grade on our day-to-day maintenance operations.	\$60	Achieve a "C" Grade on our day-to-day maintenance operations.	\$117	Achieve a "B" Grade on our day-to-day maintenance operations.
Continue to Invest in Bridges			\$46	Continue our journey to improve our substandard bridges. Initiate plans to replace our mega bridges along our critical routes.	\$46	Continue our journey to improve our substandard bridges. Initiate plans to replace our mega bridges along our critical routes.
Enhance Mass Transit Services			\$38	Increase drawdown of available federal funds. Increase efficiency in bus operations. Enable access to transportation for workers.	\$38	Increase drawdown of available federal funds. Increase efficiency in bus operations. Enable access to transportation for workers.
	\$610M		\$794M		\$951M	



Questions?

ROAD
CONSTRUCTION
TRAFFIC MAINTAINED



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Additional Information



Good first steps: 2013 & 2016 Funding

In 2013 the General Assembly provided:

- ❑ \$50M annual General Fund transfer through DOT to the SIB,
- ❑ Moved ½ of 80% of the Vehicle Sales Tax to DOT (≈\$65M) for paving; and
- ❑ Provided \$50M in one-time funds for Bridges.

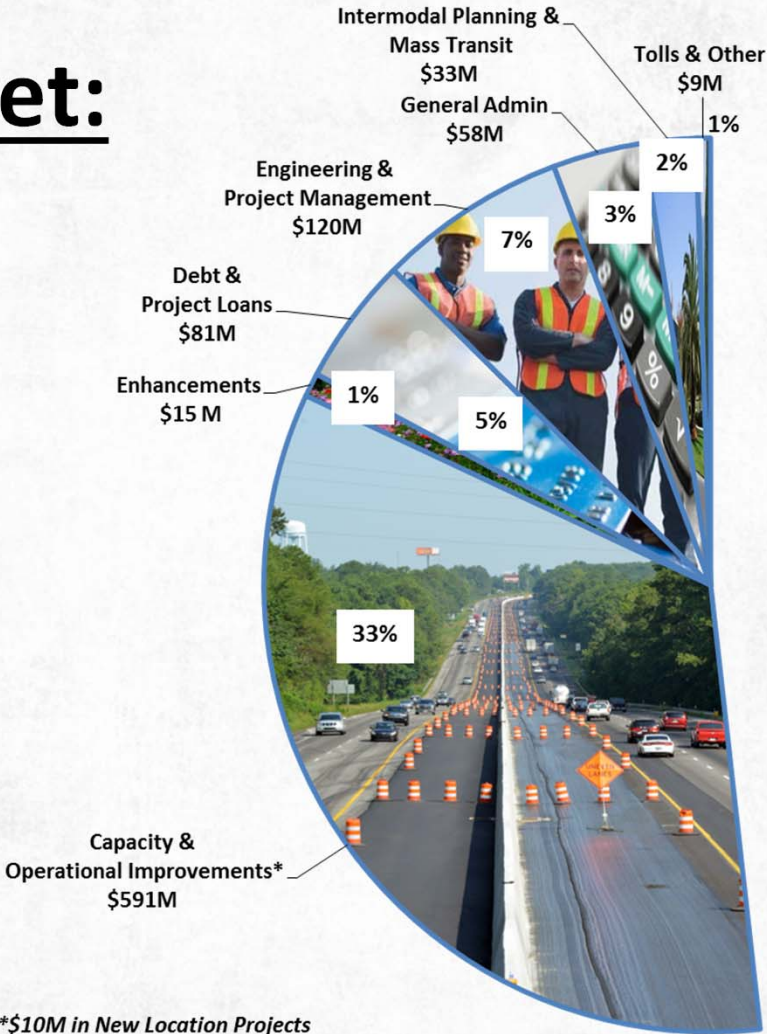
In 2016 the General Assembly:

- ❑ Moved the remaining ½ of 80% of the Vehicle Sales Tax to DOT (≈\$65M),
- ❑ Moved several DMV Fees & Fines to DOT (≈\$84M); and
- ❑ A planned annual General Fund appropriation of ≈\$65M for resurfacing.

\$115M General Funds Annually + \$214M in Other Funds Annually

2016-17 Budget: \$1.752 B

Fix-it First Approach



*\$10M in New Location Projects



Maintenance & System Preservation \$845M



Transportation Asset Management Plan (TAMP)

Links investment level to expected outcome.

Pavements

	Centerline Mileage	% Traffic Carried	Current % Good	Annual Funding Level	Forecasted % Good in 2026
Interstate	851	30%	65%	\$100M	80%
Primary	9,517	46%	19%	\$179M	30%
FA Secondary	10,370	17%	19%	\$56M	16%
NFA Secondary	20,657	7%	13%	\$80M	14%
				\$415 M	

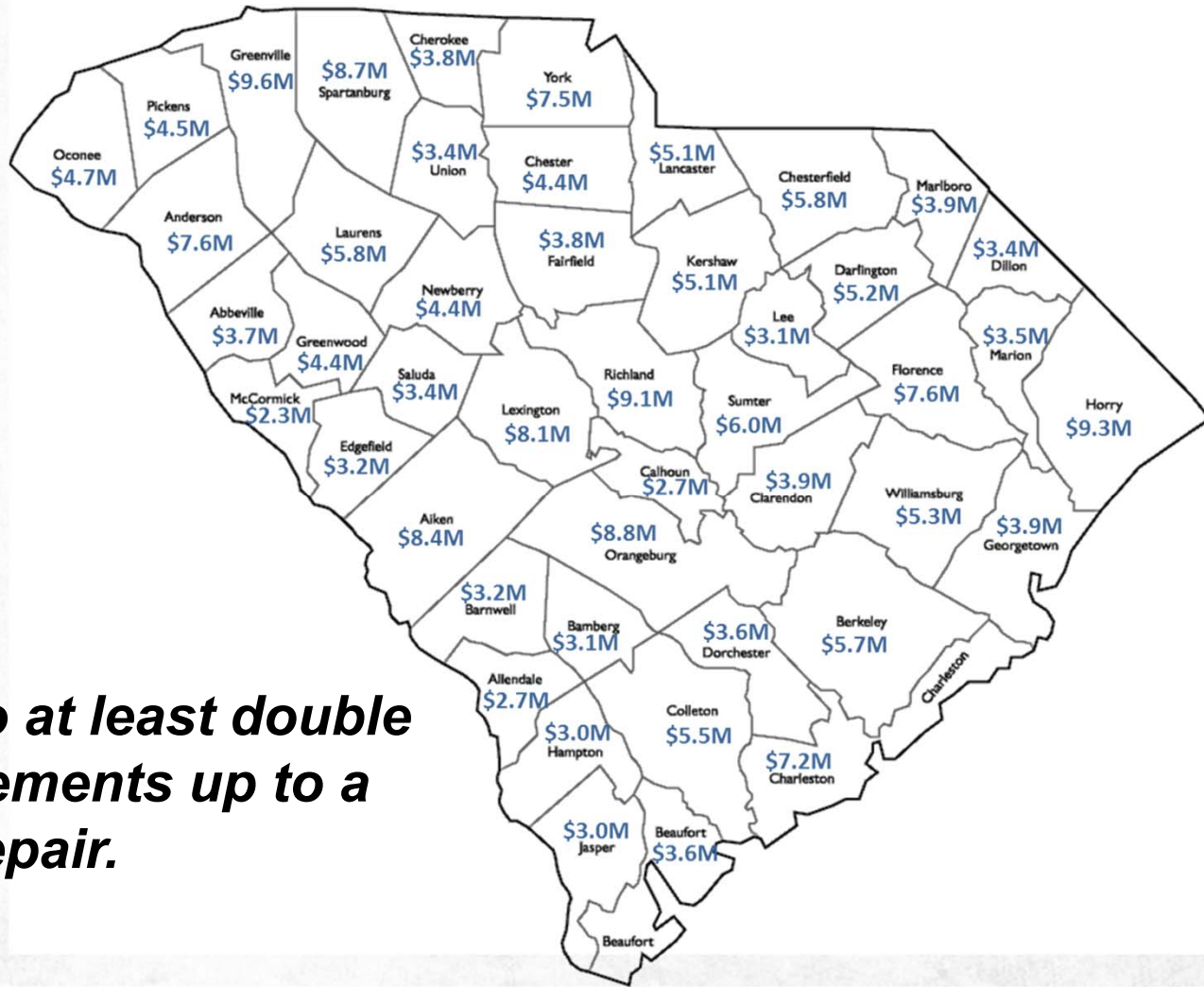
Bridges

	Current # Structures	Annual Funding	Forecasted Outcome
Load Restricted Bridges	350	\$25M	Eliminated
Structurally Deficient on NHS (Interstates & Major Primaries)	48	\$118M	Eliminated



Planned Resurfacing Annual Allocation

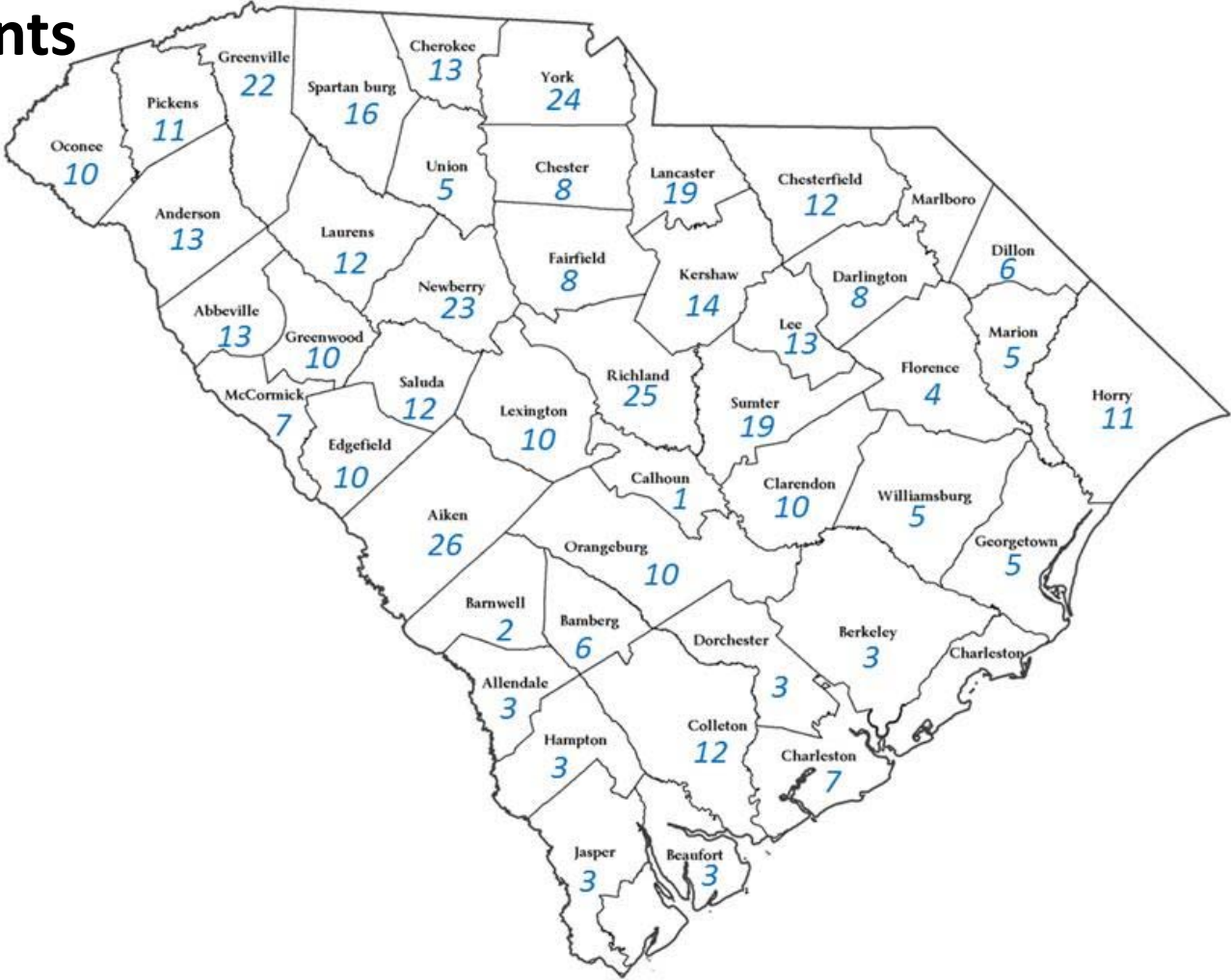
	Interstates	\$100 M
Primaries	NHS	\$81 M
	Non-NHS	\$98 M
Secondaries	Fed. Aid	\$56 M
	Non Fed. Aid	\$80 M
Total Annually:		\$415 M



This funding level needs to at least double in order to bring our pavements up to a state of good-repair.

Planned Bridge Replacements

465 total number of bridges by county planned for delivery over the next 10 years.



Planned Interstate Widenings over the next 10 years

- *I 385/85 interchange in Greenville County*
- *I-20 in Lexington County*
- *I-77 in Richland County*
- *I-85 Phase 1 & 2 in Spartanburg & Cherokee Counties*
- *I-20/26/126 (Malfunction Junction)*
- *I-85 Phase III in Cherokee Co. from SC 18 to NC State Line*
- *I-26 in Spartanburg Co. from US 176 to SC 296*
- *I-26 in Berkeley Co. from SC 27 to Nexton Parkway*
- *I-85 in Greenville & Spartanburg Co. from I-385 to SC 85*
- *I-526 in Berkeley & Charleston Co. from Rivers Ave. to US 17*
- *I-85 in Anderson & Greenville Co. from SC 153 to I-385*
- *I-526 in Charleston Co. from Paul Cantrell Rd to Rivers Ave.*
- *I-26 in Charleston Co. from I-526 to Port Access Rd.*
- *I-20 in Aiken Co. from Georgia State Line to SC 230*
- *I-26 in Newberry, Lexington & Richland Co. from SC 202 to US 176*

