Legislative Oversight Committee

Staff Study of the South Carolina Department of Transportation



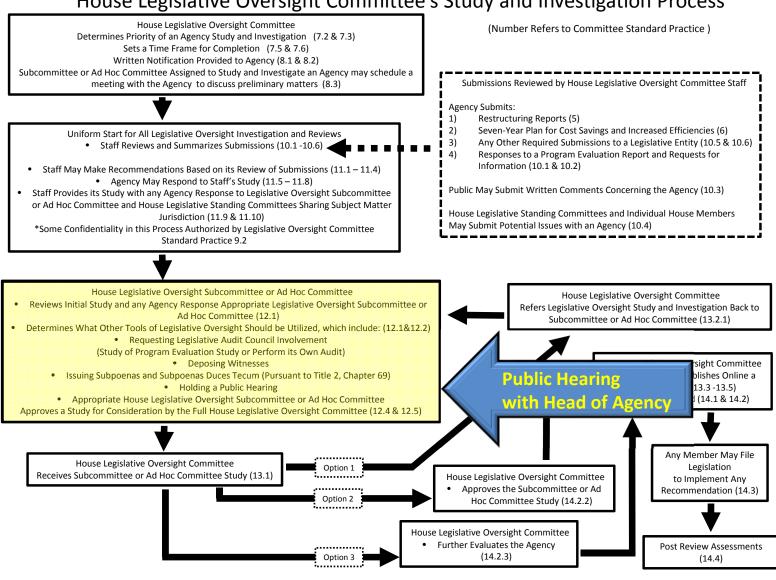
Economic Development, Transportation, Natural Resources and Regulatory Subcommittee Meeting
November 4, 2015

STATED PURPOSE OF OVERSIGHT

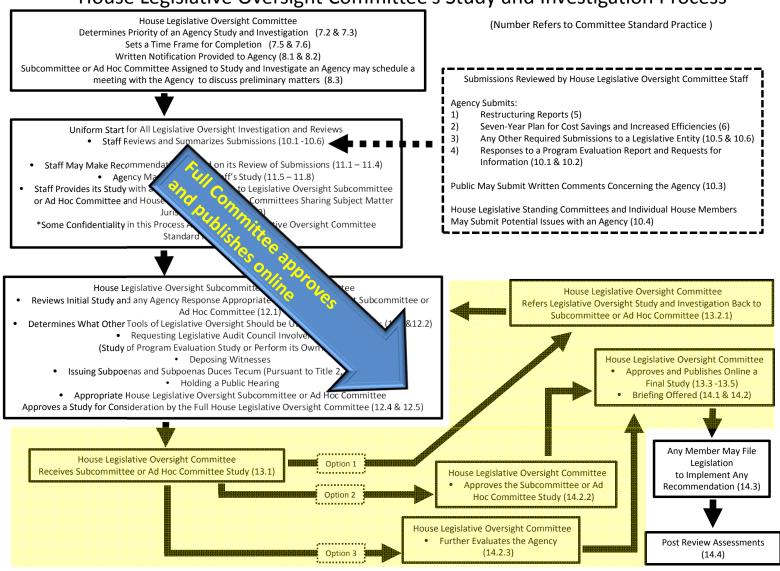
The purpose of these oversight studies and investigations is to **determine if agency laws and programs** within the subject matter jurisdiction of a standing committee:

- (1) are being implemented and carried out in accordance with the intent of the General Assembly; and
- (2) should be **continued**, **curtailed**, **or even eliminated**.

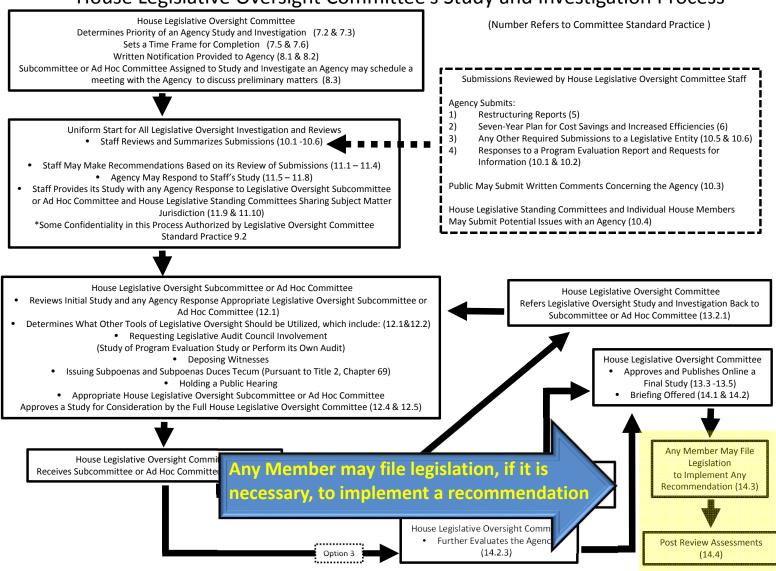
House Legislative Oversight Committee's Study and Investigation Process



House Legislative Oversight Committee's Study and Investigation Process



House Legislative Oversight Committee's Study and Investigation Process



EXPECTATIONS

What to Expect

- Oversight Studies by your elected Representatives
- Ability for the public to be involved in the process
- **Identification** by the House and Agency of areas for improvement within the agency
- Recommendations for improvements
- **Central source of information** for the public and legislators

What NOT to expect

- Finding every issue or potential area of improvement at every agency
- Solving every issue at every agency
- Solutions or recommendations that satisfy every legislator, agency personnel and member of the public.

Agency's Mission

Staff Study Visual Summary Table 2 on page 7, Page 19 under Responsibilities, and Pages 33-37 as a footnote to the summary of the agency's goals, strategies and objectives

"TO PROVIDE ADEQUATE, SAFE AND EFFICIENT TRANSPORTATION SERVICES FOR THE MOVEMENT OF PEOPLE AND GOODS."

SEE SC CODE OF LAWS SECTION 57-1-30(B)

Organizational Structure & Full Time Employees

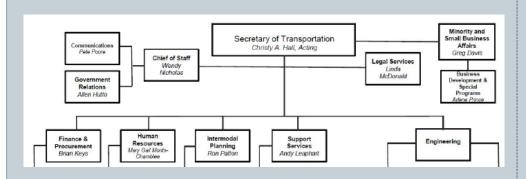
Staff Study – pg. 12, Figure 2.1 & Figure 2.2

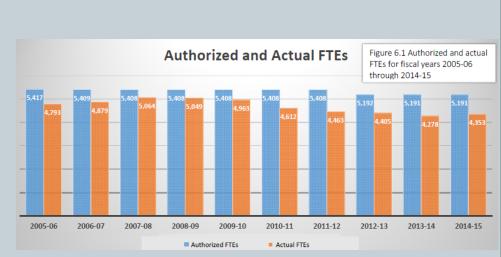
Agency Organizational Structure

Page 16 of the Staff Study

Authorized FTEs for the past 10 years

Page 18 of the Staff Study





Route Types Staff Study – pages 21-25, Tables 2-6

Route Type #1	Interstate (State System)									
	Information below is current as of December 2014, unless otherwise noted									
	Centerline Mile (CL) = total length of road; Lane Mile = centerline miles multiplied by # of lanes a road									
Functionality Class	Interstates - 1	The highest clas	sification of	roads; des	signed and co	nstructed w	ith mobility			
(Directly tied to Federal Aid eligibility)	and long-dist	ance travel in n	nind							
	Length - 851	CL miles (3,796	lane miles)	;						
	Rural - 581 C	L miles (1.9% of	f all rural mi	les); <u>Urban</u>	- 270 CL mile	es (2.4% of a	II urban mile	es) ¹¹⁸ (Rural		
Total Length and Use	and Urban mile	eage data as of D	ecember 201	3)						
	Use - 29% (ap	oprox.) of all roa	adway trave	l						
	(As of Dec. 3:	1, 2013 - 13% o	f interstate	are high us	age, carrying	over 70,000) vehicles pe	r day)		
	decreases by rehabilitation numbers of s	Each year a road loses one year of service life, and each year, the service life for interstates decreases by 851 CL miles or 3,796 lane miles. Service life is gained when a preservation, rehabilitation, or reconstruction project is performed on a road; different projects add varying numbers of service years. Below is a chart of the service years gained from all the projects performed and the net change (i.e. service years gained minus service years lost).								
Condition - Service Life	Year	Service	Service Years		Net Change	Serv	ice Years			
Gained/Lost		(lane miles)	Gain	ed		(lane miles)	G	ained		
	2010	-2,694	1,054		2013	2013 -503		3,257		
	2011	-1,090	2,67	2,670		-1,343	2	2,453		
	2012	-1,594	2,166							
	V119	Cont	5-1-		V170	CI	F-1-			
	Year ¹¹⁹	Good	Fair	Poor	Year ¹²⁰	Good	Fair	Poor		
Condition - % of roads that are in	2008	58% 59%	26%	16% 15%	2012	67% 61%	24%	9% 10%		
different conditions based of		0071								
years of service life remaining as	2010	59%	27%	14%	2014	61%	29%	10%		
of 2014 (<u>Good</u> = 10+ years; <u>Fair</u> =	2011	62%	30%	8%	Change	+2%	+3%	-6%		
5-9 years; <u>Poor</u> = 1-4 years)					in 6 yrs					
Responsibility - Entities	1) Departme	1) Department of Transportation								
Responsible for the Road										

Route Types Staff Study – pages 21-25, Tables 2-6

Route Type #1	Interstate (State System)					
		s of December 2014, unless otherwise noted ane Mile = centerline miles multiplied by # of lanes a road				
Work - Entities that can Perform Work on the Road	Projects which receive federal aid - Outside contractors must perform the work Projects not receiving federal aid - Agency or anyone who is selected through the competitive low- bid process can perform the work					
Costs - Avgerage Cost for Pavement Reconstruction and Rehabilitation Treatments ¹²¹	Reconstruction - \$4,231,722 per CL mile (\$50 Rehab (Heavy) - \$2,181,666 per CL mile (\$35 Rehab (Typical) - \$1,555,293 per CL mile (\$2 Preservation - \$30,000 per lane mile 122	53,822 per lane mile)				
Funding - Sources Available	1) Federal Aid (agency is reimbursed approximately 80% for every dollar spent; can only be used on federally-eligible roads); 2) SC General Fund;	3) Various Statewide Fees/Taxes dedicated to the operation of agency; 4) State Infrastructure Bank; 5) C Funds; and 6) Local sales tax programs				
Planning	Act 114 prioritization directives and ranking					

		Numbe	r of Mile	s of Route	Type by (County - Inter	rstate	
Abbeville	0.000	Chester	18.820	Greenville	51.230	Marion	0.000	Williamsburg
Aiken	45.160	Chesterfield	0.000	Greenwood	0.000	Marlboro	0.000	York
Allendale	0.000	Clarendon	34.220	Hampton	6.610	Newberry	27.760	
Anderson	36.570	Colleton	28,300	Horry	0.000	Oconee	4.030	0
Bamberg	0.000	Darlington	14.580	Jasper	33.900	Orangeburg	43.120	Number of c
Barnwell	0.000	Dillon	23.770	Kershaw	21.260	Pickens	0.000	miles as of D
Beaufort	0.000	Dorchester	32.610	Lancaster	0.000	Richland	62.830	
Berkeley	22.990	Edgefield	0.000	Laurens	38.200	Saluda	0.000	
Calhoun	17.440	Fairfield	21.460	Lee	20.330	Spartanburg	75.530	
Charleston	31.920	Florence	29.010	Lexington	51.940	Sumter	12.860	
Cherokee	22.800	Georgetown	0.000	McCormick	0.000	Union	0.000	

Number of centerline and lane miles as of December 2014

0.000

21.340

Relationships

Staff Study – page 26, Figure 7 and Table 7

Entity	Partner	Customer	Stakeholder
Business Community (Corporate Partners; State and Local Chambers of Commerce)	✓		✓
Businesses and commercial utilities		✓	
Citizens of South Carolina and the motoring public who use the state's highways and bridges	✓	✓	✓
Citizens who use public transportation	✓	✓	
Conservation and Environmental Organizations (8)	✓		
Department of Commerce	✓		
Department of Corrections	✓		
Department of Health & Environmental Control	✓		
Department of Motor Vehicles	✓		
Department of Public Safety	✓		
Emergency Management Division	✓		
General Assembly	✓		✓
Governor	✓		✓
Local Governments	✓		✓
Other State, County and Municipal Groups (10 Councils of Government; 11 Metropolitan Planning Organizations; County Transportation Committees; and Various Law Enforcement Entities)	~		
Professional Associations (Certified Public Managers and Government Finance Officers Association)	~		
South Carolina Congressional Delegation	✓		
South Carolina Ports Authority	✓		
Transportation Organizations (33)	✓		
Universities	✓		

Total Funding

Staff Study – page 28, Tables 8.1 and 8.2 and Figure 9

Year	2005-06	2006-07	2007-08	2008-09	2009-10
Total Agency Budget	\$1,202,437,522	\$1,295,320,523 (\$1,286,640,523 + \$8,680,000 ¹⁷⁸)	\$1,001,723,000 (\$1,000,085,600 + \$2,637,400 ¹⁷⁹ - \$1,000,000 ¹⁸⁰)	\$1,051,239,939 (\$1,051,281,195 - \$41,256 ¹⁸¹)	\$1,046,141,144 (\$1,046,151,874 - \$10,730 ¹⁸²)
Increase/Decrease per year		+7.72%	-22.35%	+5.22%	-0.49%
Increase or Decrease since fiscal year 2005-06		+7.72%	-16.91%	-12.57%	-13.00%

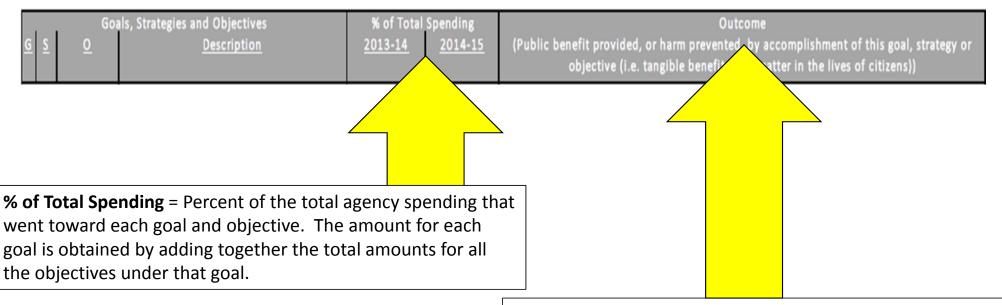
Year	2010-11	2011-12	2012-13	2013-14	2014-15
Total Agency Budget	\$1,289,302,270	\$1,137,411,022	\$1,401,764,666	\$1,675,835,654 (\$1,582,037,154 + \$2,398,500 ¹⁸⁴ + \$91,400,000 ¹⁸⁵)	\$1,628,554,811 (\$1,627,774,811 + \$300,000 ¹⁸⁶ + \$480,000 ¹⁸⁷)
Increase/Decrease per year	+23.24%	-11.78%	+23.24%	+19.55%	-2.82%
Increase or Decrease since fiscal year 2005-06	+7.22%	-5.41%	+16.58%	+39.37%	+35.44%



Agency's Plan Staff Study – page 33-37, Table 11

<u>G</u> <u>S</u>	Go: <u>O</u>	als, Strategies and Objectives <u>Description</u>	% of Total <u>2013-14</u>	Spending 2014-15	Outcome (Public benefit provided, or harm prevented, by accomplishment of t objective (i.e. tangible benefits that matter in the lives of	
Goal 1		Improve safety.	2.58% \$33,370,339	1.25% \$10,479,922	SCDOT needs claimants' contact information so proper responses can be given. SCD location and description of each incident that causes damages to claimants so that S investigations to determine liability.	
Strategy 1.1 Develop, implement, and mana		Develop, implement, and manage a data-driven high	nway safety progra	ım.	Implementation and continued execution of the plan ensures funding is utilized at the and the most cost effective solutions are implemented. A safety evaluation of each p the project is completed to ensure anticipated results are achieved.	
		Reduce the number of fatalities and serious injuries on the state highway system.		1.2% \$10,003,459	This initiative will save lives, reduce litigation costs and improve capacity and efficiency of the existing highway system.	Assoc. Agency Programs Highway Maintenance; Engineering & Construction; Non Federal Aid Fund; Mass Transit; Engineering Admin & Project Management; General Administration
2) Number 3) Number 4) Number 5) Number 6) Number		2) Number of seri 3) Number of fata 4) Number of fata 5) Number of wor 6) Number of lost	ous injuries and al pedestrian acci al bicycle acciden rkplace injuries (4 t work days (391)	47 thru 8/18/14 in 2013-14; 823, rate of 1.65, thru 5/4/15) rate (1700 thru 7/31/14 in 2013-14; 3,110, rate of 6.23, thru 5/4/15) dents (49 thru 8/18/14 in 2013-14; 109 thru 5/4/15) ats (7 thru 8/18/14 in 2013-14; 14 thru 5/4/15) 439 in 2013-14; 135 thru 4/30/15) 8 days in 2013-14; 1550 days thru 4/30/15) d condition (TBD in 2013-14; 16% as of 5/4/15)		

Staff Study – page 33-37, Table 11



Outcome = Public benefit provided, or harm prevented, by accomplishment of a goal or objective (i.e. tangible benefits that matter in the lives of citizens). If a goal or objective does not provide some type of tangible benefit to any citizens in South Carolina, the agency should consider revising or eliminating it from the agency's strategic plan.

Staff Study – page 33-37, Table 11

<u>G</u>	Goals, Strategies and Objectives G S O Description		% of Total 2013-14		Outcome (Public benefit provided, or harm prevented, by accomplishment of this goal, strategy or objective (i.e. tangible benefits that matter in the lives of citizens))
Go	pal 1	Improve safety.		1.25% \$10.479.922	SCDOT needs claimants' contact information so proper responses can be given. SCDOT also needs the location and description of each incident that causes damages to claimants so that SCDOT can conduct investigations to determine liability.

Goals = Statement of what the agency hopes to achieve in the next 2-3 years. At the highest level, each agency's goals should logically and naturally derive from the agency's mission statement. It is recommended that an agency have 3-5 high level goals.

Agency Mission: "To provide services to state agencies and departments for payroll, vendor payment processing and accounting support [and to c]ontinuously review and improve payroll, vendor payment processing and accounting support for state government to better safeguard resources and better serve the State as a whole." (SC Comptroller General's Office, Restructuring and Seven-Year Plan Report, Purpose, Mission, Vision Chart C.)

Agency Vision: "To be recognized as state government's central source for useful financial data that leads to more open and accountable government." (SC Comptroller General's Office, Restructuring and Seven-Year Plan Report, Purpose, Mission, Vision Chart C.)

Staff Study – page 33-37, Table 11

9	Goals, Strategies and Objectives S O Description				Outcome (Public benefit provided, or harm prevented, by accomplishment of this goal, strategy or objective (i.e. tangible benefits that matter in the lives of citizens))	
G	Goal 1	Improve safety.		\$10.479.922	SCDOT needs claimants' contact information so proper responses can be given. SCDOT also needs the location and description of each incident that causes damages to claimants so that SCDOT can conduct investigations to determine liability.	
	Strategy 1.1 Develop, implement, and manage a data-driven highway safety program.		ım.	Implementation and continued execution of the plan ensures funding is utilized at the most critical locations and the most cost effective solutions are implemented. A safety evaluation of each project is conducted once the project is completed to ensure anticipated results are achieved.		

Strategy = A concise statement of a high-level approach an agency is taking in pursuit of a goal. It is a descriptive, complex action comprised of multiple action steps. Good action verbs to start the description of a strategy include develop, design, establish, enhance, implement, etc. As an example, if the goal was to cure a patient of a sickness in two weeks, the strategy would be the different steps the doctor is going to take to analyze and treat the sickness.

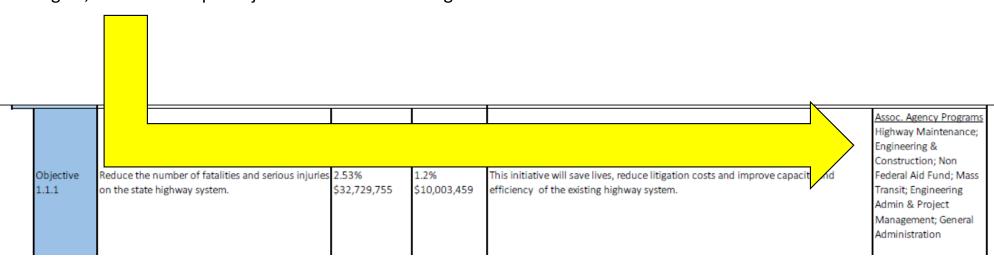
Staff Study – page 33-37, Table 11

Go <u>S</u> <u>O</u>	Goals, Strategies and Objectives S O Description		Spending <u>2014-15</u>	Outcome (Public benefit provided, or harm prevented, by accomplishment of t objective (i.e. tangible benefits that matter in the lives of		
Goal 1	Improve safety.	2.58% \$33,370,339	1.25% \$10,479,922	SCDOT needs claimants' contact information so proper responses can be given. SCD location and description of each incident that causes damages to claimants so that S investigations to determine liability.		
Strategy 1.1	Strategy 1.1 Develop, implement, and manage a data-driven high		tegy 1.1 Develop, implement, and manage a data-driven highway safety program. and the most cost effective solution		Implementation and continued execution of the plan ensures funding is utilized at the and the most cost effective solutions are implemented. A safety evaluation of each p the project is completed to ensure anticipated results are achieved.	
	Reduce the number of fatalities and serious injuries on the state highway system.		1.2% \$10,003,459	This initiative will save lives, reduce litigation costs and improve capacity and efficiency of the existing highway system.	Assoc. Agency Programs Highway Maintenance; Engineering & Construction; Non Federal Aid Fund; Mass Transit; Engineering Admin & Project Management; General Administration	

Objective = Specific, measurable and achievable description of an effort the agency is actively implementing over a defined period of time as part of a broader strategy to meet a certain goal. These have to be measurable and time bound because they let the agency know if the strategy worked.

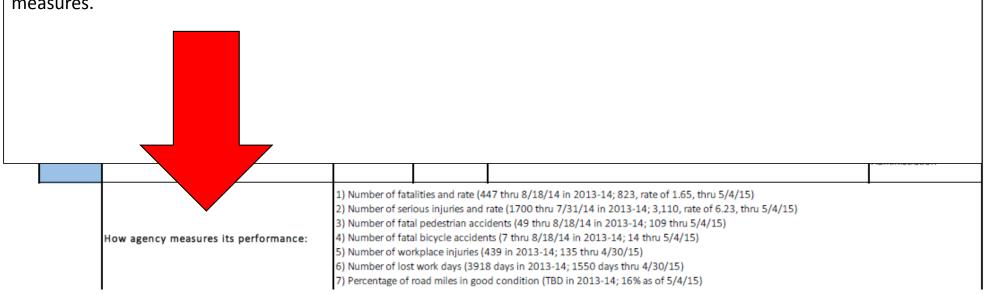
Staff Study – page 33-37, Table 11

Assoc. Agency Programs = These are the agency programs, as provided by the agency in the Program Evaluation Report, which the agency states relate to this objective. A program may relate to a single objective, multiple objectives within the same goal, or even multiple objectives under different goals.



Staff Study – page 33-37, Table 11

How agency measures its performance = These are the performance measures related to this objective and the results of those measures, compared to the targets for each, for several prior years. Performance measures gauge whether or not the objective is being accomplished efficiently and intended results are being achieved. There are four types of performance measures: (1) outcome measures, (2) efficiency measures, (3) output measures and (4) input/explanatory/activity measures. The Committee wants to see agencies focus more on efficiency and outcome measures.



Agency's Plan Staff Study – page 33-37, Table 11

<u>G</u> <u>S</u>	Goals, Strategies and Objectives G S O Description		% of Total <u>2013-14</u>	Spending <u>2014-15</u>	Outcome (Public benefit provided, or harm prevented, by accomplishment of t objective (i.e. tangible benefits that matter in the lives of	by accomplishment of this goal, strategy or	
Goal 1		Improve safety.	2.58% \$33,370,339	1.25% \$10,479,922	SCDOT needs claimants' contact information so proper responses can be given. SCDOT also needs the location and description of each incident that causes damages to claimants so that SCDOT can conduct investigations to determine liability.		
Strategy	Strategy 1.1 Develop, implement, and manage a data-driven high		ghway safety program.		Implementation and continued execution of the plan ensures funding is utilized at the and the most cost effective solutions are implemented. A safety evaluation of each put the project is completed to ensure anticipated results are achieved.		
Obj. 1.1.		Reduce the number of fatalities and serious injuries on the state highway system.	2.53% \$32,729,755	1.2% \$10,003,459	This initiative will save lives, reduce litigation costs and improve capacity and efficiency of the existing highway system.	Assoc. Agency Programs Highway Maintenance; Engineering & Construction; Non Federal Aid Fund; Mass Transit; Engineering Admin & Project Management; General Administration	
How agency measures its performance: 4) 5)		2) Number of seri 3) Number of fata 4) Number of fata 5) Number of wor 6) Number of lost	ious injuries and al pedestrian acci al bicycle accider rkplace injuries (4 t work days (391)	47 thru 8/18/14 in 2013-14; 823, rate of 1.65, thru 5/4/15) rate (1700 thru 7/31/14 in 2013-14; 3,110, rate of 6.23, thru 5/4/15) idents (49 thru 8/18/14 in 2013-14; 109 thru 5/4/15) ats (7 thru 8/18/14 in 2013-14; 14 thru 5/4/15) 439 in 2013-14; 135 thru 4/30/15) 8 days in 2013-14; 1550 days thru 4/30/15) ad condition (TBD in 2013-14; 16% as of 5/4/15)			

Potential Negative Impact

Staff Study – page 39, Table 12

- Most potential negative impact on the public if the agency's programs were to have substandard performance.
- At what level does the agency think the General Assembly should be put on notice of a potential problem.

		Level at Which the Agency Thinks the	
Program	Potential Negative Impact	General Assembly Should be Put on Notice	Additional Information
Highway Maintenance Program Effectiveness and Efficiency Ranking: 1 (i.e. most effective and efficient)	Reduced safety of the traveling public and increased vehicle maintenance costs due to continued deterioration of pavements, bridges, and other highway assets.	When the level of service that can be provided drops below a level of service "C" due to insufficient funding. This usually correlates to a condition that is unacceptable to the members of the traveling public. The current level of service that existing funding will support is a level of service "D".	Level of service is determined using a set of defined performance measures and evaluating a statistical sample of road segments to determine the level of service being provided.
Engineering Construction Program Effectiveness and Efficiency Ranking: 2	The most negative impacts to the public are increased deterioration of the federal-aid system, reduced safety, and increased congestion, all resulting in higher user costs.	SCDOT provides the status of the system each year in the State of SCDOT report. The 3-year average fatality rate is 17% above the southeastern average. 19% of the 8,420 state-owned bridges are sub-standard. 46% of the pavement on the Primary system is in poor condition and carries 47% of the traffic.	The multi-modal plan, completed in December 2014, estimated the 29-year (2040 horizon) needs for roads, bridges, public transit, and bicycle/pedestrians to be \$70.45 Billion with estimated revenues of \$27.63 Billion leaving a funding gap of \$42.82 Billion or \$1.477 Billion annually. The 2040 muti-modal plan details can be found at www.scdot.org.

Potential Negative Impact

Staff Study – page 39, Table 12

- Most potential negative impact on the public if the agency's programs were to have substandard performance.
- At what level does the agency think the General Assembly should be put on notice of a potential problem.

Program	Potential Negative Impact	Level at Which the Agency Thinks the General Assembly Should be Put on Notice	Additional Information
Non Federal Aid Program Effectiveness and Efficiency Ranking: 3	Reduced safety of the traveling public and increased vehicle maintenance costs due to continued deterioration of pavements, bridges, and other highway assets.	When the condition of the non- federal aid eligible roads and bridges drops to a condition that is unacceptable to the members of the traveling public, which has already occurred. The non federal-aid system contains 20,821 miles (50%) of the state system, but only carries 7% of the traffic. 50% of the of pavements on the non federal-aid system are in poor condition.	Funds are restricted to use on 20,821 miles of NFA secondary roads that carry approximately 7% of the traffic. There are another 10,271 miles of other secondary roads in the state system, that carry approximately 17% of the traffic that cannot compete for these funds.
Mass Transit Program Effectiveness and Efficiency Ranking: 4	Lack of public transportation access to employment, medical appointments, and activities of daily living; subsequent financial impact to state for additional public assistance in the form of unemployment, Medicaid, and other assistance due to lack of transportation access.	When Federal Transit Administration funding to the state is at risk of lapsing or going unused due to lack of sufficient non-federal match, impacting the ability to maintain current statewide ridership levels.	The majority of Federal Transit Administration funding to SCDOT is passed-through to public, non-profit, and private entities and requires various degrees of non-federal match. State funding is typically insufficient to match all available federal funding.
Tolls Operations Program Effectiveness and Efficiency Ranking: 5	The most negative part would be that the tolls charge were not enough to support the debt service and the operation and toll facility operations and maintenance.	When tolls collected are not enough to support debt service and operations and maintenance.	The Cross Island Parkway is the only SCDOT owned toll facility.

Public Comments

Staff Study – page 19



OF THE 1,788 INDIVIDUALS WHO PARTICIPATED IN THE SURVEY, 914 RESPONDED THAT THEY WOULD LIKE TO PROVIDE INPUT ON THE DEPARTMENT OF TRANSPORTATION.

OVERALL, WHAT IS YOUR CURRENT OPINION OF THE AGENCY (914 RESPONSES)?

Positive or Very Positive – 46.50%

Do not have an opinion -4.92%

Negative or Very Negative – 48.58%

SOME TOPICS ADDRESSED BY THE 410 SURVEY PARTICIPANTS WHO PROVIDED WRITTEN COMMENTS:

Condition of the Roads – 88

Funding – 67

Pay, incentives or benefits -43

Morale - 37

Management - 28

Maintenance - 22

Work Flexibility – 18

Gas Tax - 16

Agency's Recommendations

Staff Study – page 8, Visual Summary Table 3, and page 40

General

- → Reports no restructuring recommendations at this time
- → Notes it "is acquiring an external expert to conduct a top to bottom review of the agency's management and administration"
- → Notes it "is currently reviewing opportunities, including utilizing outside experts, to assess and recommend opportunities for increased privatization, outsourcing, integrated information systems, best procurement practices and organizational restructuring all of which may lead to cost savings and efficiencies"
- → Recommends modifying 19 laws, which would have various results, including reduced difficulty in implementing highway plans, reduced delays in projects, increased flexibility and revenue for the Department

Note: The Committee specifically requested recommendations from the agency. (SC Department of Transportation, Restructuring and Seven-Year Plan Report)