

**Texas A&M Transportation Institute
Summary of Recommendations - Senate**

Section 1

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Method of Financing	2016-17 Base	2018-19 Recommended	Biennial Change (\$)	Biennial Change (%)
General Revenue Funds	\$18,726,819	\$14,826,632	(\$3,900,187)	(20.8%)
GR Dedicated Funds	\$0	\$0	\$0	0.0%
<i>Total GR-Related Funds</i>	<i>\$18,726,819</i>	<i>\$14,826,632</i>	<i>(\$3,900,187)</i>	<i>(20.8%)</i>
Federal Funds	\$28,518,665	\$30,659,959	\$2,141,294	7.5%
Other	\$92,014,651	\$97,040,741	\$5,026,090	5.5%
All Funds	\$139,260,135	\$142,527,332	\$3,267,197	2.3%

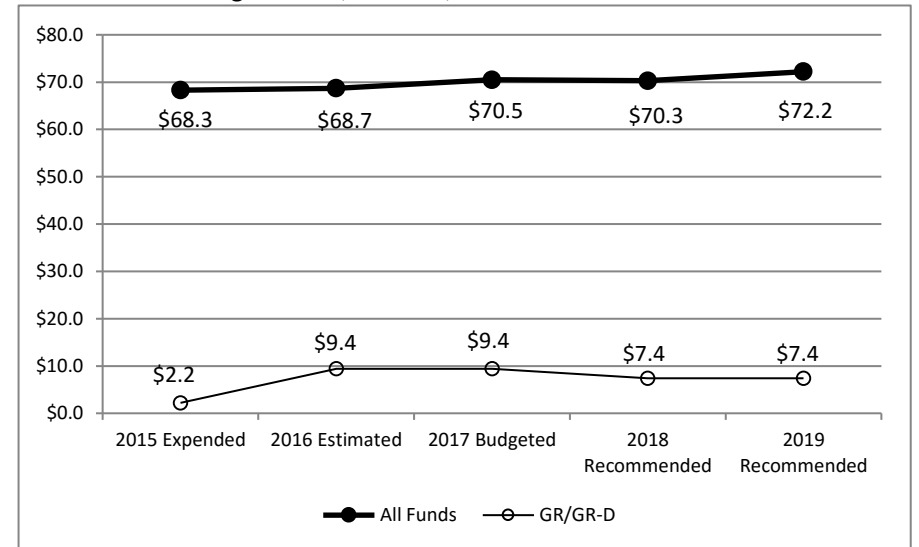
	FY 2017 Budgeted	FY 2019 Recommended	Biennial Change	Percent Change
FTEs	434.7	419.7	(15.0)	(3.5%)

Agency Budget and Policy Issues and/or Highlights

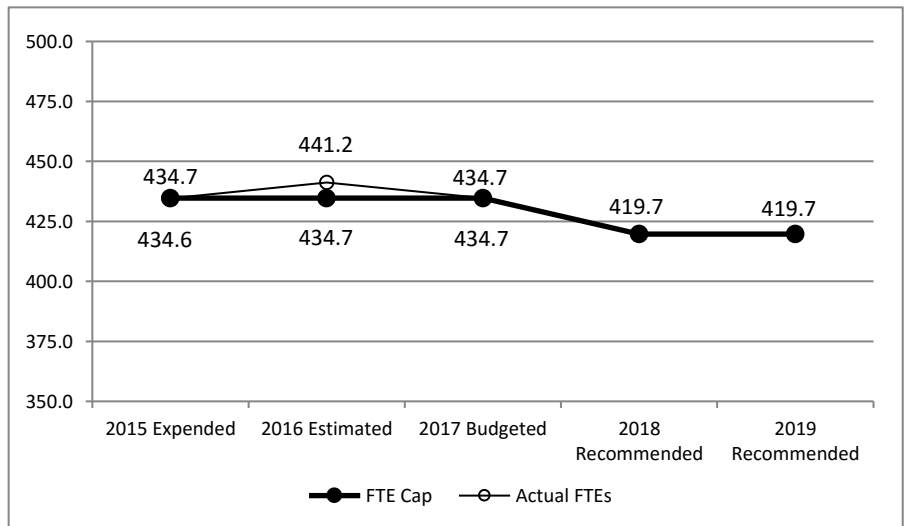
Texas A&M Transportation Institute identifies and solves transportation problems through research and testing. The agency also develops and implements new technologies for current and future transportation needs, and works closely with the Texas Department of Transportation.

The bill pattern for this agency (2018-19 Recommended) represents an estimated 94.7% of the agency's estimated total available funds for the 2018-19 biennium.

Historical Funding Levels (Millions)



Historical Full-Time-Equivalent Employees (FTEs)



Texas A&M Transportation Institute
Summary of Funding Changes and Recommendations - Senate

Funding Changes and Recommendations for the 2018-19 Biennium compared to the 2016-17 Base Spending Level (in millions)		General Revenue	GR-Dedicated	Federal Funds	Other Funds	All Funds	Strategy in Appendix A
<i>SIGNIFICANT Funding Changes and Recommendations (each issue is explained in Section 3 and additional details are provided in Appendix A):</i>							
A)	Research funding decrease as a result of the agency's four percent General Revenue base reduction requirement.	(\$0.6)	\$0.0	\$0.0	\$0.0	(\$0.6)	A.1.1, A.1.2, B.1.2, C.1.1.
B)	Elimination of General Revenue Funds for the agency's Transportation Policy Research Center (includes a decrease of 15.0 FTEs).	(\$3.2)	\$0.0	\$0.0	\$0.0	(\$3.2)	A.1.1.
<i>OTHER Funding Changes and Recommendations (these issues are not addressed in Section 3 but details are provided in Appendix A):</i>							
C)	Interagency contracts growth.	\$0.0	\$0.0	\$0.0	\$2.6	\$2.6	5 strategies
D)	Indirect cost recovery and appropriated receipts increases resulting from sponsored research contracts.	\$0.0	\$0.0	\$0.0	\$2.4	\$2.4	7 strategies
E)	Federal sponsored contract research.	\$0.0	\$0.0	\$2.1	\$0.0	\$2.1	7 strategies
F)	Infrastructure support decrease.	(\$0.2)	\$0.0	\$0.0	\$0.0	\$0.0	C.1.2.
TOTAL SIGNIFICANT & OTHER Funding Changes and Recommendations (in millions)		(\$4.0)	\$0.0	\$2.1	\$5.0	\$3.1	As Listed
<i>SIGNIFICANT & OTHER Funding Increases</i>		\$0.0	\$0.0	\$2.1	\$5.0	\$7.1	As Listed
<i>SIGNIFICANT & OTHER Funding Decreases</i>		(\$4.0)	\$0.0	\$0.0	\$0.0	(\$4.0)	As Listed

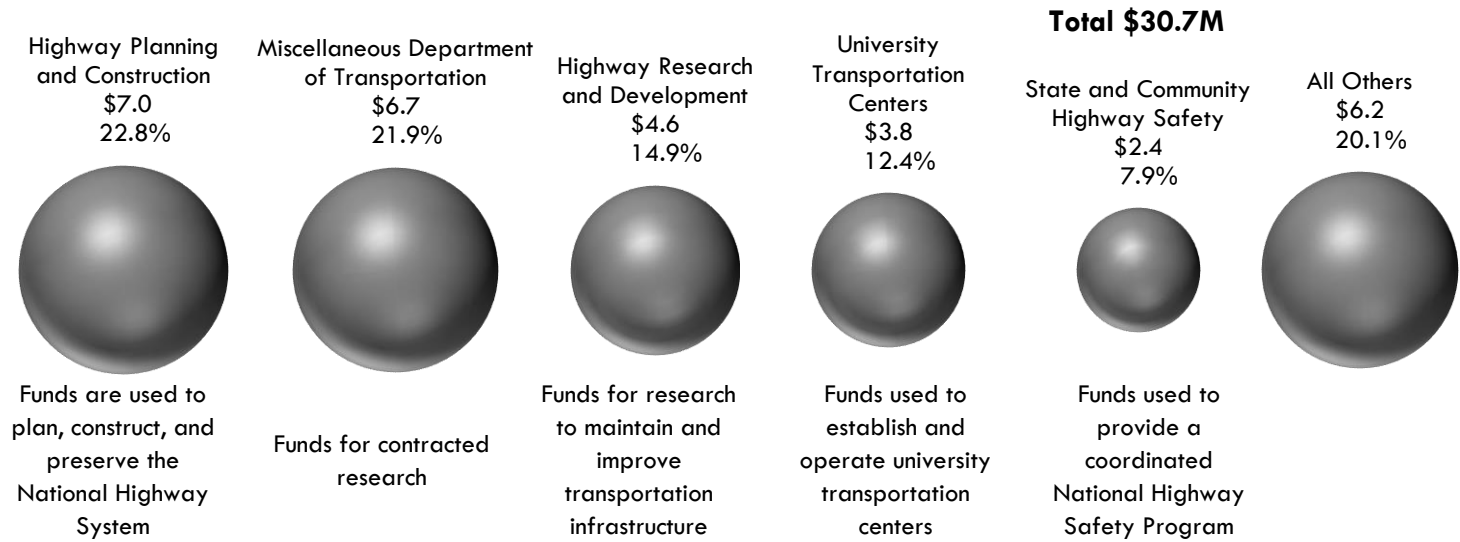
NOTE: Totals may not sum due to rounding.

**Texas A&M Transportation Institute
Selected Fiscal and Policy Issues - Senate**

1. **Four Percent General Revenue Base Reduction.** Recommendations include a \$0.6 million reduction in General Revenue Funds in the agency's research program due to the four percent base reduction requirement (note: Infrastructure Support funding was exempted from the reduction calculation because it is formula funded). The agency reports the funding reduction would also impact its ability to leverage the reduced General Revenue Funds to obtain additional federal and other research funding. The agency indicates restored funds are necessary to avoid reductions in operations of the agency's Transportation Policy Research Center, Center for International Intelligent Transportation, and Transportation Safety Center. The agency has submitted an Exceptional Item request to restore the General Revenue Funds.
2. **Transportation Policy Research Center.** Recommendations include elimination of General Revenue Funds (\$3.2 million) and 15.0 FTEs for the agency's Transportation Policy Research Center. A related rider, entitled Legislative Resource, is also deleted in the recommendations (see Section 4).
3. **Infrastructure Support.** Funding to Texas A&M System agencies for infrastructure support within Brazos County is maintained at 2016-17 total appropriations, but is adjusted for 2018-19 for each respective agency based on updated data. Texas A&M System agricultural agencies also receive funding for infrastructure support outside Brazos County which is proportionally allocated to those agencies by their percentage of total actual square footage, and the 2018-19 funding recommendations are maintained at 2016-17 total appropriations.

Texas A&M Transportation Institute

Summary of Federal Funds (2018 - 19) - Senate

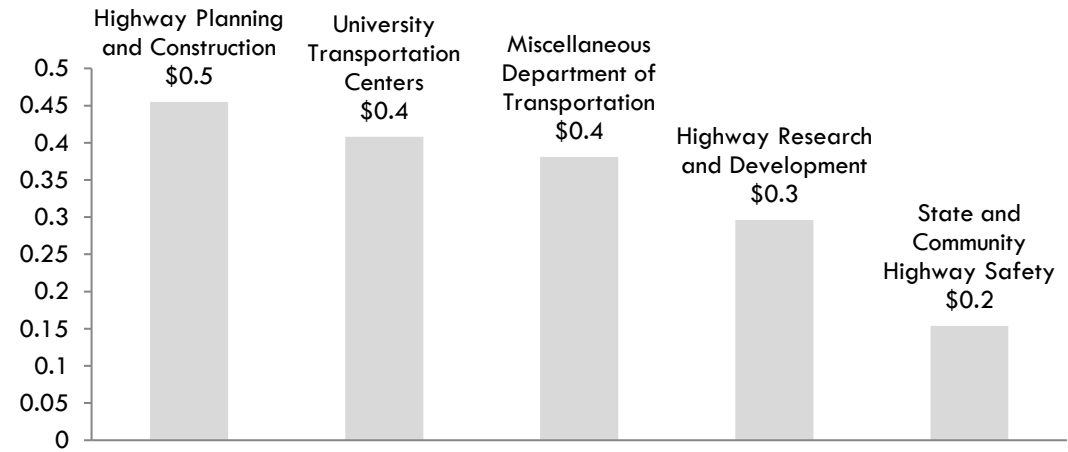


Selected Federal Fiscal and Policy Issues

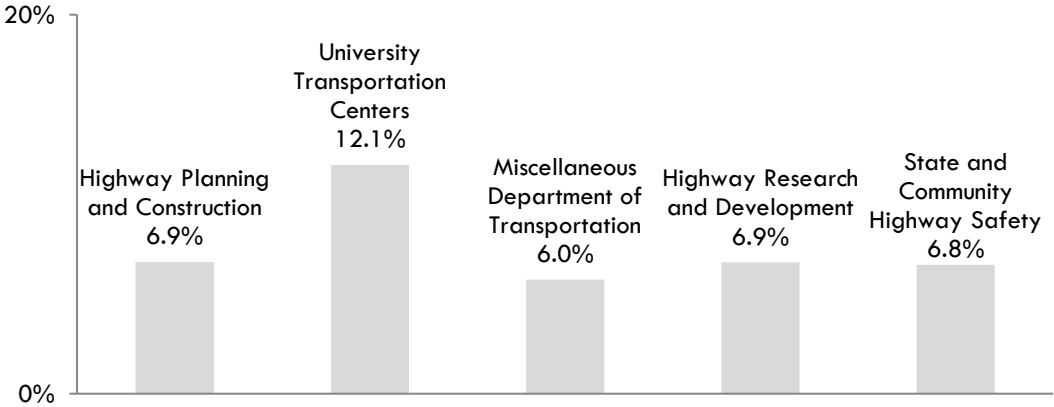
Despite a reduction in General Revenue funding, Federal Funds estimates for the 2018-19 biennium reflect an increase of approximately \$2.0 million attributable to projected growth in federally sponsored contract research grants.

Programs with Federal Funding Changes from 2016 - 17

Program-by Amount



Program-by Percentage



**Texas A&M Transportation Institute
Rider Highlights – Senate**

Deleted Riders

5. **Legislative Resource.** Recommendations delete this rider which coincides with the funding recommendation to eliminate all General Revenue Funds for the agency's Transportation Policy Research Center.

Texas A&M Transportation Institute
Items Not Included in Recommendations - Senate

Section 5

	2018-19 Biennial Total			Information Technology Involved?	Contracting Involved?	Estimated Continued Cost 2020-21
	GR & GR-D	All Funds	FTEs			

Agency Exceptional Items - In Agency Priority Order

1)	Restore the Four Percent General Revenue Baseline Reduction Funding for the agency's research program and to leverage General Revenue Funds to obtain additional federal and other research funding. The agency indicates restored funds are necessary to avoid reductions in operations of the agency's Transportation Policy Research Center, Center for International Intelligent Transportation, and Transportation Safety Center.	\$573,496	\$573,496	0.0	No	No	\$573,496
2)	Managing Truck Congestion at Texas Ports Funding and 8.0 FTEs for improved management of truck freight traffic at seaports, border crossings, and inland ports. Includes development of a truck freight database to better evaluate strategies to manage truck freight traffic throughout the state. The agency is requesting one-time General Revenue Funds for this item only for the 2018-19 biennium. The agency reports that if the associated 8.0 FTEs are continued within the agency beyond fiscal year 2019, the method of finance for those FTEs would be shifted to sponsored research contracts (Other Funds).	\$3,000,000	\$3,000,000	8.0	No	Yes	\$0

TOTAL Items Not Included in Recommendations	\$3,573,496	\$3,573,496	8.0			\$573,496
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**Texas A&M Transportation Institute
Appendices - Senate**

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* Appendix is not included - no significant information to report

Texas A&M Transportation Institute
Funding Changes and Recommendations - Senate, by Strategy -- ALL FUNDS

Strategy/Goal	2016-17 Base	2018-19 Recommended	Biennial Change	% Change	Comments
SPONSORED RESEARCH A.1.1	\$110,491,768	\$112,930,566	\$2,438,798	2.2%	Recommendations include: 1) \$0.3 million decrease in General Revenue resulting from the four percent General Revenue base reduction requirement; 2) \$3.2 million decrease in General Revenue for the agency's Transportation Policy Research Center (includes decrease of 15.0 FTEs); 3) \$2.4 million increase in Other Funds due to growth in interagency contracts; 4) \$1.8 million increase in Other Funds (indirect cost recovery and appropriated receipts) resulting from sponsored research contracts; and 5) \$1.7 million increase in Federal Funds related to growth in federal sponsored contract research.
NATIONAL CENTERS A.1.2	\$7,992,069	\$8,293,056	\$300,987	3.8%	Recommendations include: 1) \$0.2 million decrease in General Revenue resulting from the four percent GR baseline reduction; 2) \$0.4 million increase in Federal Funds related to growth in federal sponsored contract research; and 3) \$0.1 million increase in Other Funds (appropriated receipts) resulting from sponsored research contracts.
Total, Goal A, TRANSPORTATION RESEARCH	\$118,483,837	\$121,223,622	\$2,739,785	2.3%	
STAFF GROUP INSURANCE B.1.1	\$4,430,695	\$4,641,470	\$210,775	4.8%	Recommendations include: 1) \$0.1 million increase in Other Funds (indirect cost recovery and appropriated receipts) resulting from sponsored research contracts; 2) \$0.1 million increase in Other Funds due to growth in interagency contracts; and 3) \$46,448 increase in Federal Funds related to growth in federal sponsored contract research.

Texas A&M Transportation Institute
Funding Changes and Recommendations - Senate, by Strategy -- ALL FUNDS

Strategy/Goal	2016-17 Base	2018-19 Recommended	Biennial Change	% Change	Comments
WORKERS' COMP INSURANCE B.1.2	\$103,000	\$107,899	\$4,899	4.8%	Recommendations include: 1) \$554 decrease in General Revenue resulting from the four percent GR baseline reduction; 2) \$2,274 increase in Other Funds due to growth in interagency contracts; 3) \$1,759 increase in Other Funds (indirect cost recovery and appropriated receipts) resulting from sponsored research contracts; and 4) \$1,420 increase in Federal Funds related to growth in federal sponsored contract research.
UNEMPLOYMENT INSURANCE B.1.3	\$59,096	\$61,908	\$2,812	4.8%	Recommendations include: 1) \$1,412 increase in Other Funds due to growth in interagency contracts; 2) \$774 increase in Other Funds (indirect cost recovery and appropriated receipts) resulting from sponsored research contracts; and 3) \$626 increase in Federal Funds related to growth in federal sponsored contract research.
OASI B.1.4	\$3,774,595	\$3,954,161	\$179,566	4.8%	Recommendations include: 1) \$0.1 million increase in Other Funds due to growth in interagency contracts; 2) \$49,128 increase in Other Funds (indirect cost recovery and appropriated receipts) resulting from sponsored research contracts; and 3) \$38,088 increase in Federal Funds related to growth in federal sponsored contract research.
Total, Goal B, STAFF BENEFITS	\$8,367,386	\$8,765,438	\$398,052	4.8%	
INDIRECT ADMINISTRATION C.1.1	\$8,019,498	\$8,307,548	\$288,050	3.6%	Recommendations include: 1) \$0.1 million decrease in General Revenue resulting from the four percent GR baseline reduction; and 2) \$0.4 million increase in Other Funds (indirect cost recovery and appropriated receipts) resulting from sponsored research contracts.

Texas A&M Transportation Institute
Funding Changes and Recommendations - Senate, by Strategy -- ALL FUNDS

Strategy/Goal	2016-17 Base	2018-19 Recommended	Biennial Change	% Change	Comments
INFRASTRUCTURE SUPPORT C.1.2	\$4,389,414	\$4,230,724	(\$158,690)	(3.6%)	Infrastructure Support formula funding General Revenue amount for FY2018-19 is based on FY2016-17 total appropriated levels and adjusted based on updated data.
Total, Goal C, INDIRECT ADMINISTRATION	\$12,408,912	\$12,538,272	\$129,360	1.0%	
Grand Total, All Strategies	\$139,260,135	\$142,527,332	\$3,267,197	2.3%	

**Texas A&M Transportation Institute
Summary of Federal Funds - Senate
(Dollar amounts in Millions)**

Appendix B

Program	Est 2016	Bud 2017	Rec 2018	Rec 2019	2016-17 Base	2018-19 Rec	2018-19 Rec % Total	Recommended Over/(Under) Base	% Change from Base
Highway Planning and Construction	\$3.2	\$3.3	\$3.4	\$3.6	\$6.6	\$7.0	22.8%	\$0.5	6.9%
Miscellaneous- Department of Transportation	\$3.2	\$3.2	\$3.3	\$3.4	\$6.3	\$6.7	21.9%	\$0.4	6.0%
Highway Research and Development Program	\$2.1	\$2.2	\$2.2	\$2.3	\$4.3	\$4.6	14.9%	\$0.3	6.9%
University Transportation Centers Program	\$1.6	\$1.7	\$1.8	\$1.9	\$3.4	\$3.8	12.4%	\$0.4	12.1%
State and Community Highway Safety	\$1.1	\$1.1	\$1.2	\$1.2	\$2.3	\$2.4	7.9%	\$0.2	6.8%
National Priority Safety Programs	\$0.8	\$0.8	\$0.9	\$0.9	\$1.7	\$1.8	5.8%	\$0.1	6.8%
Motor Carrier Safety Assistance Program	\$0.5	\$0.5	\$0.5	\$0.5	\$1.0	\$1.0	3.3%	\$0.1	7.0%
Aviation Research Grants	\$0.4	\$0.4	\$0.4	\$0.4	\$0.7	\$0.8	2.6%	\$0.1	7.0%
General Department of State Assistance	\$0.2	\$0.3	\$0.3	\$0.3	\$0.5	\$0.6	2.0%	\$0.1	17.5%
Protection of Highways, Bridge Approaches, and Public Works	\$0.2	\$0.2	\$0.2	\$0.2	\$0.4	\$0.5	1.5%	\$0.0	6.8%
Occupational Safety and Health Research	\$0.1	\$0.1	\$0.1	\$0.1	\$0.3	\$0.3	0.9%	\$0.0	6.8%
Highway Training and Education	\$0.1	\$0.1	\$0.1	\$0.1	\$0.2	\$0.3	0.8%	\$0.0	6.9%
Diabetes, Endocrinology and Metabolism Research	\$0.1	\$0.1	\$0.1	\$0.1	\$0.2	\$0.2	0.7%	\$0.0	6.8%
County-wide Environmental Assessment	\$0.1	\$0.1	\$0.1	\$0.1	\$0.2	\$0.2	0.6%	\$0.0	6.8%
Minimum Penalties for Repeat Offenders for DWI	\$0.1	\$0.1	\$0.1	\$0.1	\$0.2	\$0.2	0.6%	\$0.0	6.9%
Airport Improvement Program	\$0.1	\$0.1	\$0.1	\$0.1	\$0.1	\$0.2	0.5%	\$0.0	6.8%
All Other Grants	\$0.1	\$0.1	\$0.1	\$0.1	\$0.2	\$0.2	0.7%	\$0.0	6.8%
TOTAL:	\$14.0	\$14.5	\$15.1	\$15.6	\$28.5	\$30.7	100.0%	\$2.1	7.5%

**Texas A&M Transportation Institute
Performance Measure Highlights - Senate**

Appendix D

	Expended 2015	Estimated 2016	Budgeted 2017	Recommended 2018	Recommended 2019
<i>Total Dollar Volume of Research</i>	\$58,217,611	\$58,503,021	\$60,097,828	\$61,600,273	\$63,140,280
<i>Measure Explanation: The dollar volume of research expenditures which includes direct and indirect expenditures and excludes non-appropriated sources.</i>					
<i>Average Number of Students Involved in TTI Education and Research Activities</i>	180	192	192	192	192
<i>Measure Explanation: The average number of students participating in transportation research and support activities or receiving educational assistantships (excludes National Centers).</i>					
<i>Average Number of Students Involved in TTI's National Centers Education and Research Activities</i>	50	50	50	50	50
<i>Measure Explanation: The average number of students participating in transportation research and support activities or receiving educational assistantships related to National Centers.</i>					
<i>Number of TTI Patented Safety Devices Installed</i>	905,132	917,572	937,572	957,572	977,772
<i>Measure Explanation: The number of TTI patented safety devices that have been installed nationwide, which is an indicator of positive impact on roadway safety.</i>					

Texas A&M Transportation Institute
Summary of Ten Percent Biennial Base Reduction Options - Senate

Priority	Item	Description/Impact	Biennial Reduction Amounts			Potential Revenue Loss	Reduction as % of Program GR/GR-D Total	Included in Introduced Bill?
			GR & GR-D	All Funds	FTEs			
1)	Transportation Policy Research Center (TPRC)	For fiscal years 2018-19, \$1,584,000 per fiscal year is requested from General Revenue Funds for TTI's TPRC. TTI indicates TPRC provides support for solutions to the state's transportation challenges. TTI reports this budget reduction would impact the overall size and scope of the TPRC.	\$316,800	\$316,800	0.0	\$0	10%	Yes
2)	Center for International Intelligent Transportation (CIIT)	For fiscal years 2018-19, \$816,000 per fiscal year is requested from General Revenue Funds for TTI's CIIT. TTI indicates CIIT conducts research, education, and technology transfer to improve the safety of Texas' roads and highways for secure international transportation and other issues specific to the El Paso region, international, and border settings. TTI reports this budget reduction would impact the overall size and scope of the CIIT.	\$163,200	\$163,200	0.0	\$0	10%	No
3)	Transportation Safety Center (TSC)	For fiscal years 2018-19, \$960,000 per fiscal year is requested from General Revenue Funds for TTI's TSC. TTI indicates TSC conducts research, education, and technology transfer to improve the safety of Texas' roads and highways. TTI reports this budget reduction would impact the overall size and scope of TSC.	\$192,000	\$192,000	0.0	\$0	10%	No
4)	Agency Research and Operations	For fiscal years 2018-19, TTI indicates \$3,521,955 per fiscal year is requested from General Revenue Funds for certain agency research and operations. TTI reports this budget reduction would limit available funding and would result in negative impacts on the agency's research program and operations.	\$704,391	\$704,391	0.0	\$0	10%	No
TOTAL, 10% Reduction Options			\$1,376,391	\$1,376,391	0.0	\$0		