Opening Remarks

Ray Wilkerson, Chairman Mike Heiligenstein, Executive Director

May 15, 2017



CENTRAL TEXAS

Regional Mobility Authority

Opportunity for Public Comment

May 15, 2017

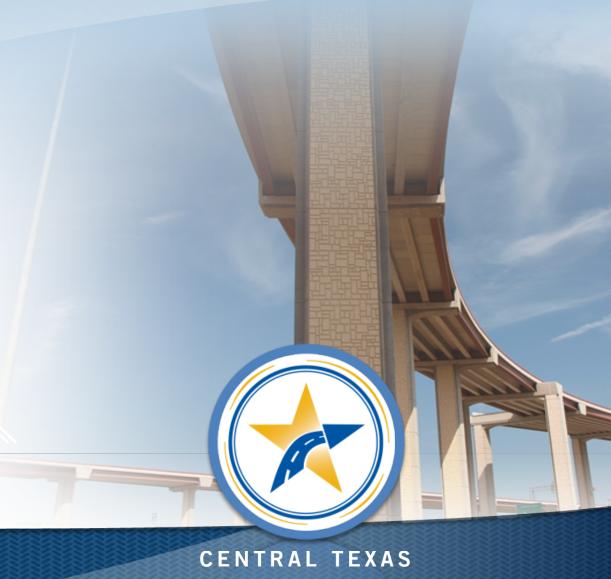


Regional Mobility Authority

National/State/Local Update

Brian Cassidy, Locke Lord Jerry Valdez, The Valdez Company Karen Johnson Ashby Johnson, CAMPO

May 15, 2017



Regional Mobility Authority





CAMPO AND CTRMA: PARTNERSHIP AND OPPORTUNITY

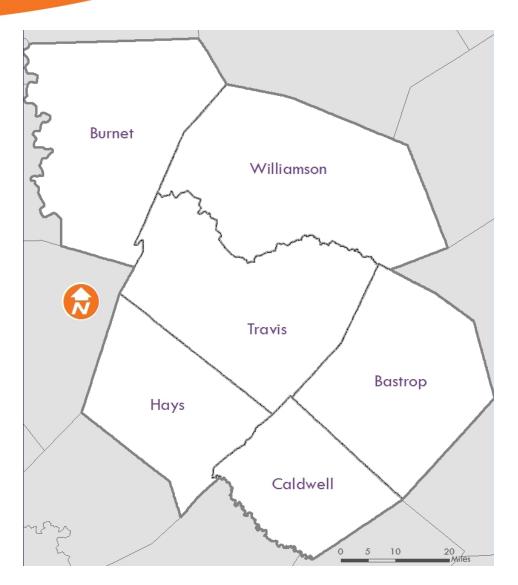
Ashby Johnson

Executive Director

512-215-8225







CAMPO REGION

- Six Counties
- 1.9 Million People
- 4th Largest MPO in Texas, 11th Largest in the Nation
- In the Top 5 of Fastest
 Growth



MPO PURPOSE

- Transportation Policy Board Allocates State & Federal Funding for the Region
- Produces a Unified Planning Work Program
- Produces a 20-year fiscally constrained long-range transportation plan
- Produces a 4-year Transportation Improvement Program



HOW MUCH FUNDING DOES CAMPO RECEIVE?

Federal

 \$28 Million Annually (Surface Transportation Program – Metropolitan Mobility; Also known as "Category 7")

State

• \$110 Million Annually (Category2 funds – also includes Propositions 1 & 7)



WHO RUNS CAMPO?

- Transportation Policy Board 20 Voting Members (18 elected)
- MPO Staff Administrative & Planning
- Technical Advisory Committee
 - Serves as Technical Review for Policy Board and Makes Recommendations
 - Does NOT Review Policy Issues or Make Financial Recommendations

Policy Board Members

- Will Conley, Hays
- Clara Beckett, Bastrop
- Steve Adler, Austin
- Jeff Travillion, Travis
- Victor Gonzales, Pflugerville
- Gerald Daugherty, Travis
- Sarah Eckhardt, Travis
- Alison Alter, Austin
- Jimmy Flannigan, Austin
- Matt Powell, Cedar Park
- John Thomaides, San Marcos

- Ann Kitchen, Austin
- Cynthia Long, Williamson
- Terry McCoy, TxDOT
- Craig Morgan, Round Rock
- Hoppy Haden, Caldwell
- James Oakley, Burnet
- Dale Ross, Georgetown
- Brigid Shea, Travis
- Terry Mitchell, Cap Metro



WHAT IS THE CAMPO/CTRMA RELATIONSHIP?

- ALL Planning Studies Must be in UPWP
- ALL Regionally Significant Projects Must be in the Plan & TIP
- Demonstration of Regional Fiscal Constraint includes CTRMA Revenue Estimates
- State & Federal Transportation Dollars Allocated by CAMPO Policy Board



WHAT IS THE RELATIONSHIP TO TXDOT?

- TxDOT Statewide Plan
- TxDOT Unified Transportation Program (UTP)
 - Allocates State/Federal Transportation Funding by Region/Program
 - 10 Year Horizon
- TxDOT Statewide Transportation Improvement Program (STIP)
 - MPOs + Rural Projects



WHAT IS UPCOMING AT CAMPO?

- 2045 Plan Update
- Regional Arterials Study
- Regional Transit Study (to include Park and Ride)
- Regional Incident Management Study
- Capital-Alamo Corridor Study
- Call for Projects





QUESTIONS?



Financial Report

Bill Chapman, Chief Financial Officer Mary Temple, Controller

May 15, 2017



CENTRAL TEXAS

Regional Mobility Authority

Reserve Fund Policy



Article 3. RESERVE FUND POLICY

In Resolution No. 10-12, dated February 26, 2010, the board approved the establishment of a reserve fund. The reserve fund is intended to ensure that the authority maintains adequate funds to satisfy its outstanding financial commitments and operational requirements in the event of unforeseen circumstances or events.

The board recognizes that establishment and maintenance of sufficient reserve funds is of particular importance in light of the authority's dependence upon discretionary user fees as its primary revenue stream.

Fund Balance



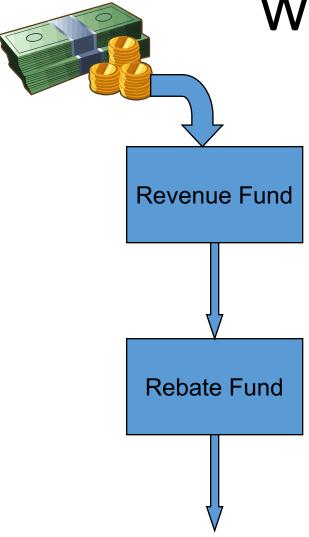
28. Fund Balance

It shall be the goal of the authority to maintain twelve months of funds sufficient to pay, maintain, or satisfy all required debt service, debt service coverage, contractual financial commitments, and operational requirements (collectively, "Funding Requirements") as a reserve fund; provided, however, that the executive director shall have the authority to take action resulting in a reduction of the reserve fund to a minimum of nine months of funding sufficient to pay, maintain, or satisfy all Funding Requirements if he determines that such action is necessary, in the best interest of the authority, and will not adversely affect the authority's financial ability. (b)In the event that the executive director authorizes action on behalf of the authority to reduce the reserve fund balance to less than twelve months of funding sufficient to pay, maintain, or satisfy all Funding Requirements, he shall disclose to the board at the next regular board meeting the amount by which the reserve fund was reduced and the circumstances that led to the reduction.

(c)In no event may the reserve fund balance be reduced to less than nine months of funding sufficient to pay, maintain, or satisfy all Funding Requirements without the prior approval of the board.

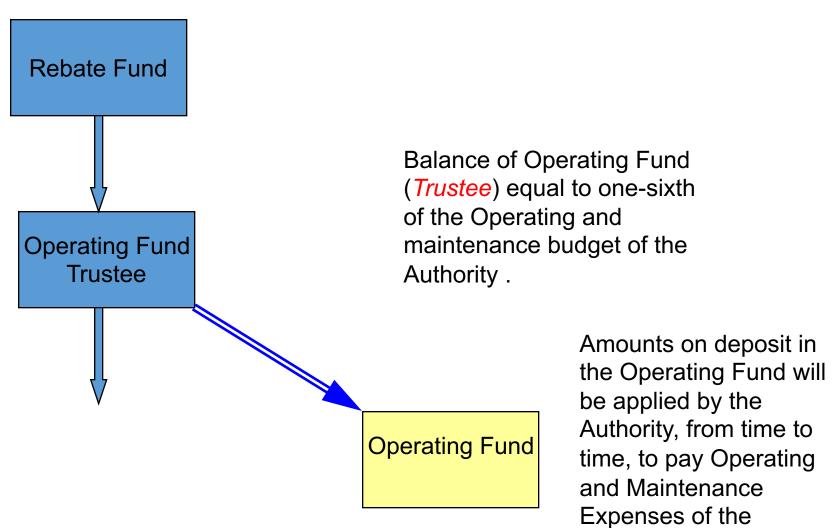
CENTRAL TEXAS

Regional Mobility Authority

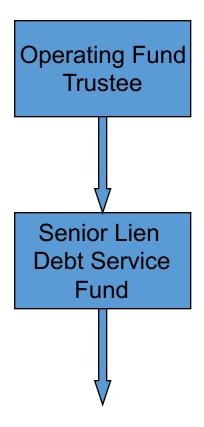


All revenues will be deposited as received into the Revenue Fund

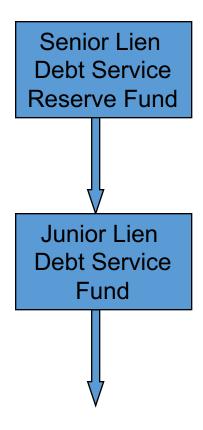
Amounts held in Rebate Fund may be used solely to make payments to the United States of America under section 148 of IRS code



System

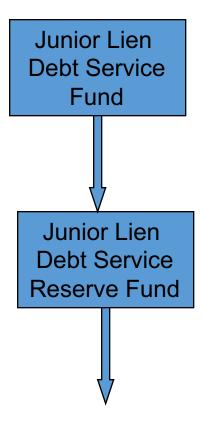


One-sixth of the interest due on the next semiannual interest payment date with respect to Senior Lien Obligations... and one-twelfth of the principal or Maturity Amount, as applicable



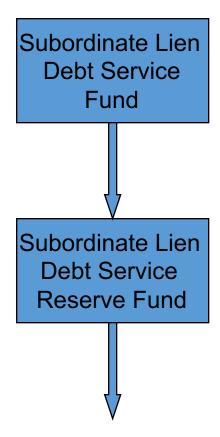
One-sixth of the interest due on the next semiannual interest payment date with respect to Junior Lien Obligations... and one-twelfth of the principal or Maturity Amount, as applicable

CTRMA has no Junior Lien Debt outstanding

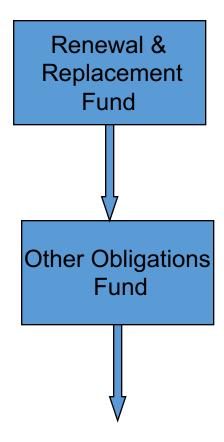


CTRMA has no Junior Lien Debt outstanding

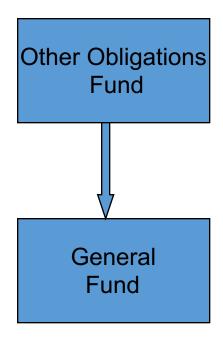
...all amounts, if any, which, together with amounts on deposit therein...will be sufficient to make ...the Junior Lien Debt Service requirement, if any...



... if any, which, together with amounts on deposit therein...will be sufficient to make ...the Subordinate Lien Debt Service requirement, if any...



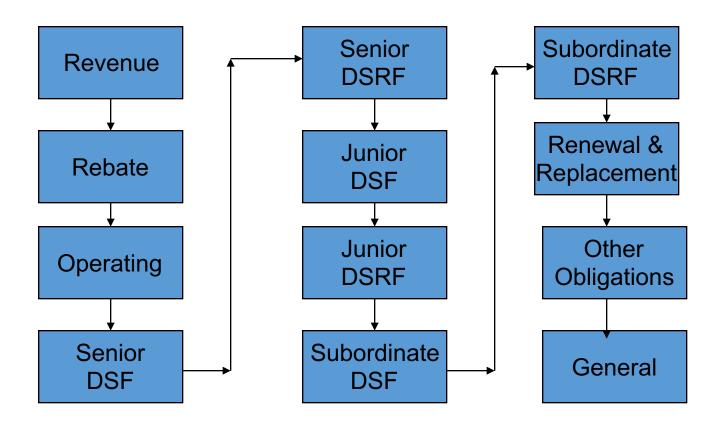
One-sixth of the interest due on the next semiannual interest payment date with respect to Other Obligations... and one-twelfth of the principal or Maturity Amount, as applicable.



...all amounts remaining in the General Fund. Funds can be used for any lawful purpose

FLOW of FUNDS

Trustee Accounts



	es\March 2017\[March 2017 Investment Summary.xlsx] INVESTMENTS by		
	iii veenimei vios	, r GRB	Balance
			March 31, 2017
Renewal	& Replacement Fund		3.0
	TexSTAR	505,187.52	
	Goldman Sachs	188,632.33	
	Agencies		693,819.8
TxDOT G	rant Fund TexSTAR	4,095,196.76	
	Goldman Sachs	5,469,651.91	
	Agencies	0,100,001.01	9.564.848.67
Senior D	ebt Service Reserve Fund		.,,.
	TexSTAR	10,624,946.49	
	Goldman Sachs Agencies	29,361,448.53	70.075.400.0
2010 Sen	ior Lien DSF	39,988,725.96	79,975,120.9
2010 001	Goldman Sachs	389,868.31	
	TexSTAR	-	389,868.3
2011 Deb	t Service Acct		,
	Goldman Sachs	751,330.40	751,330.4
2013 Sr [Debt Service Acct		
2012 6	Goldman Sachs Debt Service Account	2,751,305.07	2,751,305.0
2013 Sui	Goldman Sachs	1,520,014.53	6,535,623.8
	TexSTAR	5,015,609.27	0,000,020.00
2015 Sr (Capitalized Interest		
	Goldman Sachs	10,594,831.78	60,730,533.7
	TexSTAR	50,135,701.94	
2015A De	ebt Service Account Goldman Sachs	3.30	3.3
2015B De	ebt Service Account	3.30	3.3
20.02 2	Goldman Sachs	860,710,00	860.710.0
2016 Sr L	en Rev Refunding Debt Service Account	,	
	Goldman Sachs	8,581,238.80	8,581,238.8
2016 Sub	Lien Rev Refunding Debt Service Account		
2016 Cub	Goldman Sachs Lein Rev Refunding DSR	941,803.16	941,803.1
2016 Sub	Goldman Sachs	6,638,405.43	6,638,405.43
Operatir	g Fund	0,000,100.10	0,000,100.1
	TexSTAR	554,792.55	
	TexSTAR-Trustee	2,402,869.35	
Revenue	Goldman Sachs	26,190.00	2,983,851.90
Revenue	Goldman Sachs	4,214,329.09	4.214.329.09
General	Fund	4,214,323.03	4,214,323.0
	TexSTAR	25,078,968.60	
	Goldman Sachs	18,627,923.78	
	Agencies	4,407,796.25	48,114,688.6
2013 Sub	Debt Service Reserve Fund	0.470.005.40	
	Goldman Sachs Agencies	3,473,985.43	3,473,985.4
MoPac R	evenue Fund		3,473,303
	Goldman Sachs	73,003.01	73,003.0
MoPac C	onstruction Fund		
	Goldman Sachs	44,038,423.08	44,038,423.0
2011 Sub	Debt Project fund		
	TexSTAR Agencies	-	
	Goldman Sachs	0.00	0.0
2015B Pr	oject Account		
	Goldman Sachs	5,042,299.88	
	Agencies	20,192,027.72	40,275,038.3
201E4 P	TexSTAR oject Account	15,040,710.70	
2015A PI	TexSTAR	5,296,630.30	
	Goldman Sachs	20,434,957.47	
	Agencies	71,163,494.57	
	Treasury Notes	29,879,334.38	126,774,416.7
2015 TIFI	A Project Account		
201 E C4-	Goldman Sachs	50,290.51	50,290.5
2015 Sta	e Highway Fund Project Account Goldman Sachs	29,593,029.59	29,593,029.5
2015 SIB	Project Account	29,393,029.39	29,090,029.0
	Goldman Sachs	19,730,129.71	19,730,129.7
2011 Sr F	inancial Assistance Fund		
	Goldman Sachs	11,452,494.95	26,499,322.8
Dovoles	TexSTAR	15,046,827.94	
Develpe	Deposits Goldman Sachs	370.97	370.9
183S Util	ity Custody Deposit	3/0.9/	3/0.8
	Goldman Sachs	5,823,539.83	5,823,539.8
45SW Tri	ist Account Hays County	, =,,==,00	
	Goldman Sachs ust Account Travis County	229,887.40	229,887.4
45SW Tri			
	Goldman Sachs	1,675,389.33	1,675,389.3

Summary			
F:\Month End	entries\March 2017\[March 2017 Investment Su	mmary.xlsx]By Fund	
	INVESTME	ENTS by FUND	
			Balance
			March 31, 2017
Rene	wal & Replacement Fund		3.00
	TexSTAR	505,187.52	
	Goldman Sachs	188,632.33	
	Agencies		693,819.85
TxDC	OT Grant Fund		
	TexSTAR	4,095,196.76	
	Goldman Sachs	5,469,651.91	
	Agencies		9,564,848.67
Cami	an Dahi Camilaa Daaamia Fiind		

TxDOT Grant Fund

 TexSTAR
 4,095,196.76

 Goldman Sachs
 5,469,651.91

Agencies

9,564,848.67

	0,000,020.00
5,015,609.27	
10,594,831.78	60,730,533.72
50,135,701.94	
3.30	3.30
0.00	0.00
000 740 00	200 740 00
860,710.00	860,710.00
8,581,238.80	8,581,238.80
941,803.16	941,803.16
6.638.405.43	6,638,405.43
554 702 55	
	0 000 054 00
26,190.00	2,983,851.90
4,214,329.09	4,214,329.09
25,078,968.60	
18.627.923.78	
	48,114,688.63
4,401,100.20	40,114,000.00
0.470.005.40	
3,473,985.43	
	3,473,985.43
73,003.01	73,003.01
44.038.423.08	44,038,423.08
7	, , , , , , , , , , , , , , , , , , , ,
0.00	0.00
0.00	0.00
5,042,299.88	
20,192,027.72	40,275,038.30
15,040,710.70	
5 206 630 30	
29,879,334.38	126,774,416.72
50,290.51	50,290.51
29.593.029.59	29,593,029.59
40 720 420 74	19,730,129.71
19,730,129.71	19,730,129.71
	26,499,322.89
15,046,827.94	
370.97	370.97
5 923 520 02	5,823,539.83
0,020,039.03	0,020,009.00
229,887.40	229,887.40
229,887.40 1,675,389.33	229,887.40 1,675,389.33 \$ 531,964,307.88
	6,638,405.43 554,792.55 2,402,869.35 26,190.00 4,214,329.09 4,2714,329.09 18,627,923.78 4,407,796.25 3,473,985.43 73,003.01 44,038,423.08 0.00 5,042,299.88 20,192,027.72 15,040,710,70 5,296,630.30 20,434,957.47 71,163,494.57 29,879,334.38 50,290.51 19,730,129.71 11,452,494.57 29,579,334.38 50,290.51 15,046,827.94 370.97 5,823,539.83

	es\March 2017\[March 2017 Investment Summary.x INVESTMENTS	by FUND				
			Balance			
			March 31, 2017			
enewal	& Replacement Fund		3.00			
1	TexSTAR	505,187.52				
(Goldman Sachs	188,632.33				
	Agencies		693,819.85			
xDOT Gr	rant Fund					
]	TexSTAR Goldman Sachs	4,095,196.76 5,469,651.91				
	Goldman Sachs Agencies	5,469,651.91	9,564,848.67			
	ebt Service Reserve Fund		9,304,646.07			
	TexSTAR	10,624,946.49				
(Goldman Sachs	29,361,448.53				
	Agencies	39,988,725.96	79,975,120.98			
010 Seni	ior Lien DSF					
	Goldman Sachs	389,868.31	200.000.24			
	TexSTAR t Service Acct	-	389,868.31			
(Goldman Sachs	751,330.40	751,330.40			
013 Sr D	ebt Service Acct	121,220140	,			
(Goldman Sachs	2,751,305.07	2,751,305.07			
	Debt Service Account					
	Goldman Sachs TexSTAR	1,520,014.53	6,535,623.80			
	apitalized Interest	5,015,609.27				
(Goldman Sachs	10,594,831.78	60,730,533.72			
	TexSTAR	50,135,701.94	-3,100,000.12			
	bt Service Account					
(Goldman Sachs	3.30	3.30			
	bt Service Account	000 745 55	000 7:			
	Goldman Sachs en Rev Refunding Debt Service Account	860,710.00	860,710.00			
	Goldman Sachs	8,581,238.80	8,581,238.80			
	Lien Rev Refunding Debt Service Account	2,501,200.00				
(Goldman Sachs	941,803.16	941,803.16			
016 Sub L	Lein Rev Refunding DSR					
	Goldman Sachs	6,638,405.43	6,638,405.43			
Operating	g Fund TexSTAR	554,792.55				
	TexSTAR-Trustee	2,402,869.35				
1						
1	Goldman Sachs	26,190,00	2.983.851.90			
evenue	Goldman Sachs Fund	26,190.00	2,983,851.90			
evenue	Goldman Sachs Fund Goldman Sachs	26,190.00 4,214,329.09	2,983,851.90 4,214,329.09			
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devenue General F General F 013 Sub 013 Sub 04 010 Pac Co 010 Sub	Goldman Sachs Fund Goldman Sachs Fund TexSTAR TexSTAR-Trustee Goldman Sachs Each Toperating Fund TexSTAR-Trustee Goldman Sachs Debt Project Tund	26,190.00		2,402,86	9.35	2,98
devenue General F General F Goldonar Re Goldonar Co Goldonar Co Goldonar Co Goldonar Co Goldonar Co Goldonar Co	Goldman Sachs Fund Goldman Sachs Und TexSTAR TexSTAR-Trustee Goldman Sachs Lebt Project Tund Lest Tar Agencies	26,190.00 4,214,329.09	4,214,329.09	2,402,86	9.35	2,98
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devenue deneral F deneral	Goldman Sachs Fund Goldman Sachs und TexSTAR TexSTAR TexSTAR-Trustee Goldman Sachs Debt Project tund TexSTAR Agencies Goldman Sachs Goldman Sachs Fund TexSTAR Goldman Sachs	26,190.00 4,214,329.09 4,214,329.09 - 0.00 5,042,299.88 20,192,027.72 15,040,710.70 5,296,630.30	4,214,329.09	2,402,86	9.35	2,98
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devenue (deneral F (de	Goldman Sachs Fund Goldman Sachs und To Operating Fund TexSTAR TexSTAR-Trustee Coldman Sachs Lebt Project tund TexSTAR Agencies Goldman Sachs Jeet Account TexSTAR Goldman Sachs Jeet Account TexSTAR TexTAR	26,190.00 4,214,329.09 4,214,329.09 	4,214,329.09 0.00 40,275,038.30	2,402,86	9.35	2,98
devenue (interest in the property of the prope	Goldman Sachs Fund Goldman Sachs	26,190.00 4,214,329.09 4,214,329.09 - 0.00 5,042,299.88 20,192,027.72 15,040,710.70 5,296,630.30 20,434,957.47 71,163,494.57	4,214,329.09 0.00 40,275,038.30	2,402,86	9.35	2,98
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() () () () () () () () () ()	Goldman Sachs Fund Fund Fund Fund Fund Fund Fund Fund	26,190.00 4,214,329.09 4,214,329.09 	4,214,329.09 0.00 40,275,038.30	2,402,86	9.35	2,98
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() () () () () () () () () ()	Goldman Sachs Fund Fund Fund Fund Fund Fund Fund Fund	26,190.00 4,214,329.09 4,214,329.09 	4,214,329.09 0.00 40,275,038.30 126,774,416.72 50,290.51	2,402,86	9.35	2,98
() () () () () () () () () ()	Goldman Sachs Fund Goldman Sachs Fund TexSTAR TexSTAR-Trustee Goldman Sachs Debt Project Tund Goldman Sachs Debt Project Tund Goldman Sachs Debt Project Tund TexSTAR Agencies Goldman Sachs Oject Account Goldman Sachs Agencies TexSTAR TexSTAR Goldman Sachs Agencies TexSTAR Age	26,190.00 4,214,329.09 4,214,329.09 0.00 5,042.299.88 20,192,027.72 15,040,710.70 5,296,630 20,434,957.47 71,163,494.57 29,879,334.38 50,290.51 29,593,029.59	4,214,329.09 0.00 40,275,038.30 126,774,416.72 50,290.51 29,593,029.59	2,402,86	9.35	2,98
central state of the state of t	Goldman Sachs Fund Goldman Sachs fund TexSTAR TexSTAR-Trustee Goldman Sachs Lebt Project Tund Goldman Sachs Lebt Project Tund Goldman Sachs Lebt Project Tund Goldman Sachs Ject Account Goldman Sachs Ject Account Goldman Sachs Ject Account TexSTAR Goldman Sachs Ject Account Goldman Sachs Agencies Treasury Notes A Project Account Goldman Sachs Froject Account Goldman Sachs Froject Account Goldman Sachs Froject Account Goldman Sachs Froject Account Goldman Sachs Froject Account Goldman Sachs	26,190.00 4,214,329.09 4,214,329.09 0.00 5,042,299.88 20,192,027.72 15,040,710.70 5,296,630 20,434,957.47 71,163,494.57 29,879,334.38 50,290.51 29,593,029.59	4,214,329.09 0.00 40,275,038.30 126,774,416.72 50,290.51 29,593,029.59 19,730,129.71	2,402,86	9.35	2,98
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Levelue evenue (al. 16 miles evenue e	Goldman Sachs Fund Fund Fund Fund Fund Fund Fund Fund	26,190.00 4,214,329.09 4,214,329.09 0.00 5,042,298.88 20,192,027.72 15,040,710.70 5,296,630.30 20,434,97.47 71,163,494.57 29,879,334.38 50,290.51 29,593,029.59 19,730,129.71 11,452,494.95 15,046,827.94	4,214,329.09 0.00 40,275,038.30 126,774,416.72 50,290.51 29,593,029.59 19,730,129.71 26,499,322.89	2,402,86	9.35	2,98
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nary	04/21/		
onth End ent	ries\March 2017\[March 2017 Investment Summary.xl		
	INVESTMENTS I	y FUND	
			Balance
			March 31, 2017
Donowa	I & Replacement Fund		3.0
Kellewa	TexSTAR	505.187.52	3.0
	Goldman Sachs	188.632.33	
		100,032.33	
	Agencies		693,819.8
IXDOI	Grant Fund	4 005 400 70	
	Goldman Sachs	4,095,196.76	
		5,469,651.91	0.504.040.0
0	Agencies Debt Service Reserve Fund		9,564,848.67
Sellior	TexSTAR	40 004 040 40	
	Goldman Sachs	10,624,946.49 29,361,448.53	
	Agencies	39.988.725.96	79,975,120.98
2010 Se	nior Lien DSF	33,300,123.90	13,313,120.90
2010 36	Goldman Sachs	389.868.31	
	TexSTAR	309,000.31	389.868.31
2011 Do	bt Service Acct	•	303,000.3
2011 De	Goldman Sachs	751,330,40	751.330.40
2013 Sr	Debt Service Acct	731,330.40	751,330.40
2013 31	Goldman Sachs	2.751.305.07	2.751.305.07
2012 811	b Debt Service Account	2,731,303.07	2,731,303.07
2010 00	Goldman Sachs	1.520.014.53	6.535.623.80
	TexSTAR	5.015.609.27	0,333,023.00
2015 Sr	Capitalized Interest	0,010,000.21	
20.00.	Goldman Sachs	10.594.831.78	60.730.533.72
	TexSTAR	50,135,701,94	00,100,0002
2015A D	ebt Service Account	00,100,101.04	
	Goldman Sachs	3.30	3.30
2015B D	ebt Service Account	-	
	Goldman Sachs	860,710,00	860,710,00
2016 Sr I	ien Rev Refunding Debt Service Account		,
	Goldman Sachs	8,581,238,80	8.581.238.80
2016 Sub	Lien Rev Refunding Debt Service Account	7	.,,
	Goldman Sachs	941,803.16	941,803.16
2016 Sub	Lein Rev Refunding DSR		
	Goldman Sachs	6,638,405.43	6,638,405.43
Operati	ng Fund		
	TexSTAR	554,792.55	
	TexSTAR-Trustee	2,402,869.35	
	Goldman Sachs	26,190.00	2,983,851.90
Revenu			
	Goldman Sachs	4,214,329.09	4,214,329.09
General			
	TexSTAR	25,078,968.60	
	Goldman Sachs	18,627,923.78	
	Agencies b Debt Service Reserve Fund	4,407,796.25	48,114,688.63

71,163,494.57 29,879,334.38

29,593,029.59

19,730,129.71

11,452,494.95 15,046,827.94

370.97

5,823,539.83

229,887.40

1,675,389.33

50,290.51

126,774,416.72

29,593,029.59

19,730,129.71

26,499,322.89

5,823,539.83

229,887.40

3 1,675,389.33 \$ 531,964,307.88

370.97

50,290.51

Agencies Treasury Notes

2015 SIB Project Account

Goldman Sachs

2011 Sr Financial Assistance Fund

Goldman Sachs TexSTAR

45SW Trust Account Hays County
Goldman Sachs
45SW Trust Account Travis County

Goldman Sachs

Develper Deposits

Goldman Sachs

183S Utility Custody Deposit

Goldman Sachs

2015 TIFIA Project Account
Goldman Sachs
2015 State Highway Fund Project Account
Goldman Sachs

General Fund		
TexSTAR	25,078,968.60	
Goldman Sachs	18,627,923.78	
Agencies	4,407,796.25	48,114,688.63

Grant Fund	9,564,848.67
Operating Fund	2,983,851.90
General Fund	48,114,688.63
Revenue Fund	4,214,329.09
Unrestricted Cash as of 3/31/17	64,877,718.29

Senior Debt Service Reserve Fund	79,975,120.98
2013 Sub Debt Service Reserve Fund	3,473,985.43
2016 Sub Lein Rev Refunding DSR	6,638,405.43
Total Debt Service Reserve Funds as of 3/31/17	90,087,511.84

Finance Spreadsheets



Cash flow System after refundings before 71E

Cash flow model through 2049

General Fund analysis



CTRMA Special Strategic Financial Plan

May 15, 2017

Introduction

- The Strategic Financial Plan allows CTRMA to confirm that its development plan for the next 10 years is financially viable
- The plan provides a reference for future development and financing needs
- Allows CTRMA to evaluate the impact to the current plan of changes to factors impacting projects including:
 - Schedule
 - Project priority
 - Demand
 - Financing costs
- Provides a reference for demonstrating to stakeholders how surplus toll revenues will be used



What is in the Plan

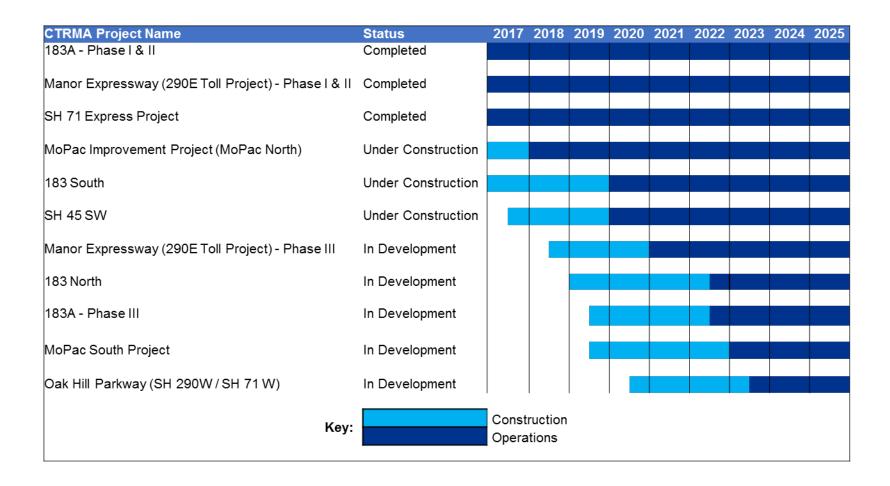
The plan includes:

- Projects scheduled for the next decade
- Latest estimates of construction costs, O&M costs and toll revenues
- Use of system and stand alone financing (including TIFIA)
- Assumptions for development with and without grant funding
- CTRMA general reserve funding requirements based on current policy
- Accumulation of surplus revenues in the General Fund
- Draws on the General Fund to deliver planned projects



Projects, Timing and Priority

The plan has been developed to consider the following projects and schedule





Stand Alone Project Analysis Assumptions

Each project was evaluated on a stand alone basis to help determine its general economics and the benefits of using system financing over stand alone financing

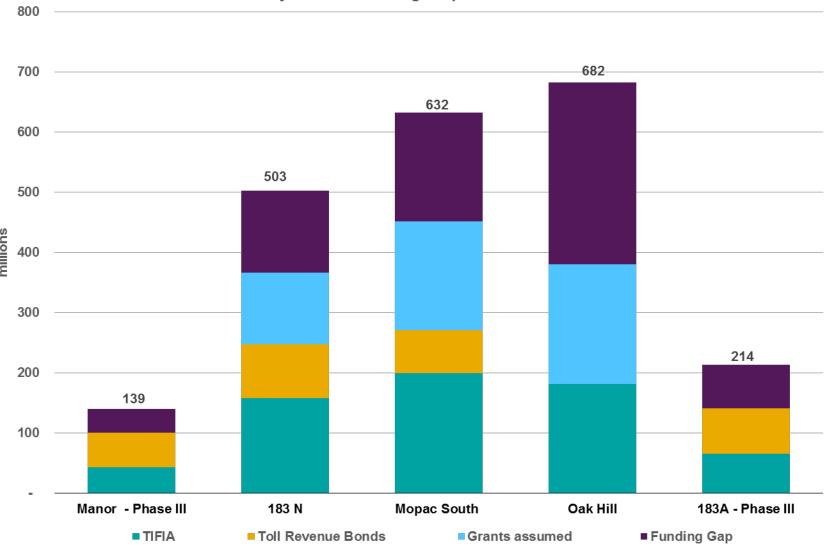
- Project timing follows CTRMA's current program
- Toll revenue bonds sized in order to limit the need for draws on the General Fund
- TIFIA considered for all projects using terms from CTRMA's current system loan agreement
- Grant funding is assumed to be 30% of project costs for MoPac South, Oak Hill Parkway and \$120 Million for 183 North*
- Commitments to TxDOT and CAMPO for SH 71 and MoPac North projects (respectively) are included
- A project's future impact on the General Fund is not considered
- Incremental funding required to meet CTRMA's reserve requirements not included in stand alone analysis



^{*}Dependent upon action at the legislature

Stand Alone Project Funding Requirements







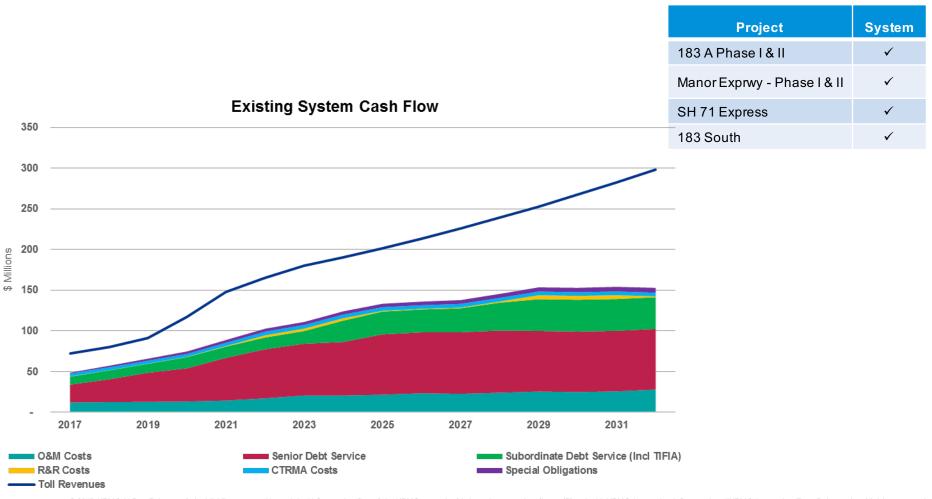
System Analysis

- Inclusion of projects in the CTRMA system allows for greater leveraging of incremental toll revenues, reducing the need for draws on the General Fund
- Lenders view system financing more favorably reducing over debt costs
- Projects are added to the system following CTRMA's current schedule
- Analysis considers delaying of projects if the General Fund is not sufficient
- Each new project is assumed to be funded through the following sources:
 - System toll revenue bonds in accordance with current indenture
 - System TIFIA loan (up to 33% of eligible project costs)
 - Funding with, and without, grants considered; grant sizing the same as for the stand alone analysis
 - □ Draws on the General Fund when possible
- Funding to meet CTRMA's general reserve policy included
- Repayment of \$30 million Qualified Energy Conservation Bond (QECB) is included



Existing System Cash Flow

- Indenture allows for additional debt and projects to be added to the system
- Existing system has additional debt capacity at the senior and subordinate lien level





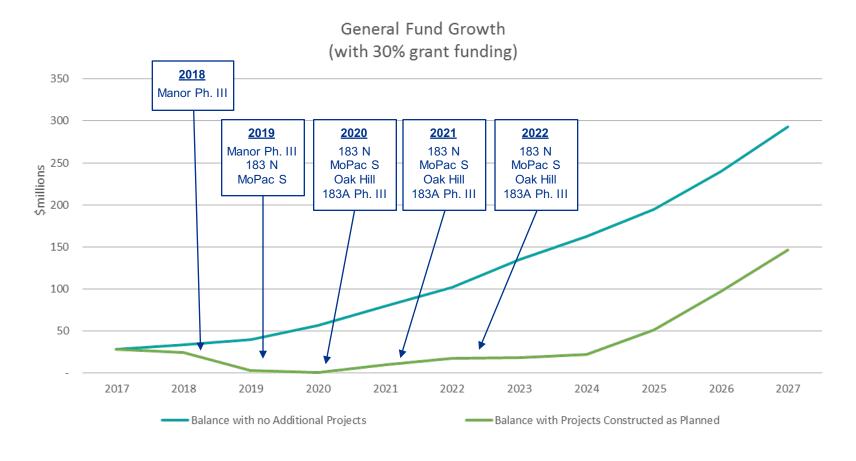
CTRMA General Fund

- Cash flow into the General Fund is assumed to occur only after all other payments are made (including reserve funding)
- Any increase in costs or reduction in toll revenues will decrease cash flow into the General Fund
- To account for the uncertain nature of this cash flow, only 60% of cash flows into the General Fund are assumed to be available for project costs
- A lack of grant funding will be compensated by either increase in the size of draws on the General Fund or by issuance of toll revenue bonds (to extent possible)
- Starting balance for the General Fund is approximately \$14 million after considering the CTRMA reserve requirement (which includes debt service)



General Fund Growth with Grant Funding

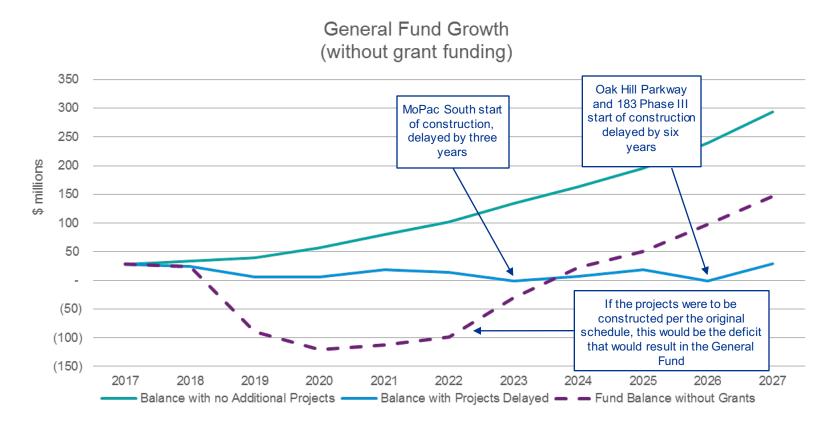
- With grant funding and General Fund draws, projects can be delivered as scheduled
- Use of General Fund for project development prevents material growth in its balance until after 2024





General Fund Growth without Grant Funding

- Without grant funding Manor Phase III and 183 North can be delivered on schedule using system level toll revenue bonds and a TIFIA loan
- The additional debt and General Fund draws due to no grant funding results in the need to delay construction of MoPac South, Oak Hill Parkway, and 183 Phase III



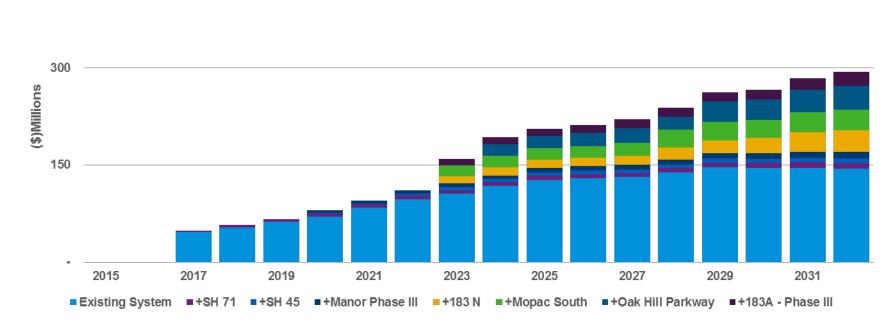


Reserve Requirements

450

- Current CTRMA policy is to size reserve based on a one year look-forward of all obligations (including O&M, R&R, debt service and Admin Costs)
- Addition of new projects to the system greatly increases the size of the reserve
- Review of reserve policy may result in additional funds for funding of projects via General Fund

Reserve Requirements with addition of Projects





Summary

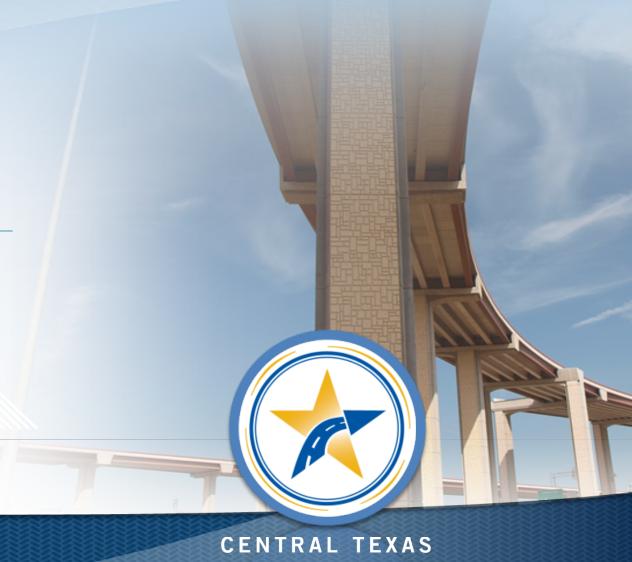
- The Strategic Financial Plan confirmed CTRMA's current development plan is feasible with grant funding using current cost and financing assumptions
- If there were no grant funding for 183 North, Mopac South and Oak Hill Parkway the current development plan may be delayed
- Other options could be evaluated in the Strategic Financial Plan model such as:
 - Different percentages of grant funding
 - □ Grant funding for some projects but not others
 - Changes to the CTRMA reserve funding policy to release funds into the General Fund
 - Revisions to project development schedule



Mobility Authority Projects Report

Jeff Dailey, Deputy Executive Director Justin Word, Director of Engineering

May 15, 2017





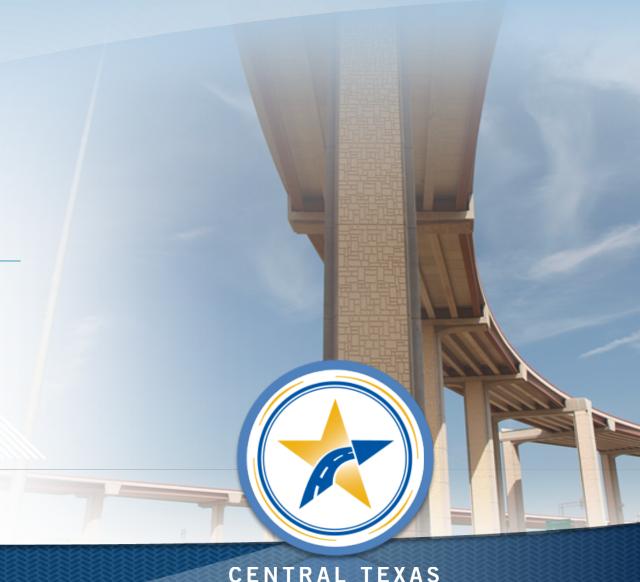


THE MOBILITY AUTHORITY SYSTEM reliable travel times & reinvestment

getting you moving is what keeps us going

Project Timelines: From Inception to Substantial Completion

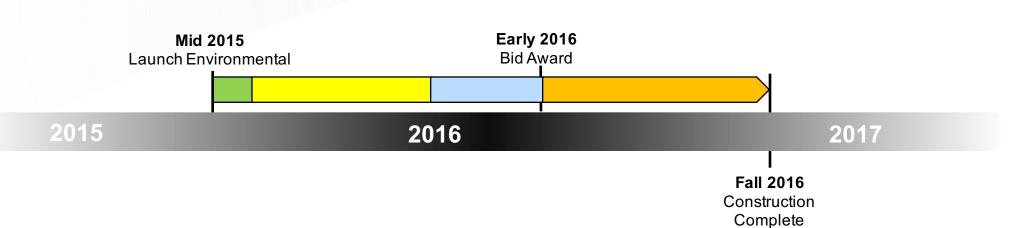
Jeff Dailey, Deputy Executive Director Justin Word, Director of Engineering May 15, 2017



PROJECT TIMELINES



SMALL PROJECTS; Example, 290 Toll/SH 130 Interim Improvements (Design/Bid/Build)



LEGEND

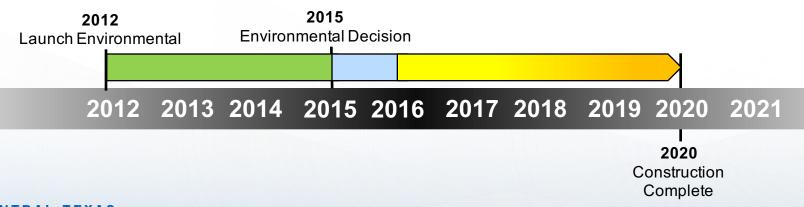
ENVIRONMENTAL

FINAL DESIGN

PROCUREMENT

CONSTRUCTION

LARGE PROJECTS; Example, 183 South (Design Build)



BOARD INVOLVEMENT



- Board Votes to Exercise Option to Develop Project (Primacy)
- Board Approves ILAs and Authorizes Executive Director to Enter into Agreement
- Board Approves PDA and Authorizes Executive Director to Enter into Agreement
- Board Accepts Toll Equity Assistance and Authorizes Executive Director to Enter into Agreement
- Board Authorizes Financing, including financial assistance agreements, SIB loans, TIFIA loans, and toll revenue bond financing
- Board Authorizes ROW Condemnation

- Board Approves Consultant Support, including: GEC, PS&E, Environmental/Engineering Services, Construction Oversight, Material Testing, Public Involvement, T&R, Financial and Legal Advisory Services, and other specialty consultants
- Board Approval to Publish RFQ
- Board Approval of Shortlist, Stipend and Issuance of RFDP
- Board Approval of D/B Selection & Award
- Board Approval to Initiate Negotiations with Apparent Best Value Proposer
- Board Approves Change Orders that Exceed Executive Director's Authority

PROJECTS UNDER CONSTRUCTION



WHAT ARE WE BUILDING?

One variable-priced Express Lane in each direction along a central 11-mile stretch of MoPac



ANTICIPATED TO OPEN SUMMER 2017



WHAT ARE WE BUILDING?

Three new tolled lanes and up to three non-tolled lanes each direction along US 183 in east Austin



ANTICIPATED TO OPEN PHASE I IN LATE 2019, PHASE II IN LATE 2020



WHAT ARE WE BUILDING?

A new four-mile toll road, connecting MoPac eastward to FM 1626 in Hays County with two lanes in each direction



ANTICIPATED TO OPEN SUMMER 2019

290 TOLL PHASE III (DIRECT CONNECTOR RAMPS)





WHAT WILL WE BUILD?

Three new direct connector bridges will be constructed between SH 130 and 290 Toll.

Project Limits: US 290/SH 130 interchange, including 13,550 feet of direct connector bridges

Total Project Cost: \$130 million

Delivery Method: Design-Bid-Build

Schedule:

Environmental Clearance: Received April 2017

Anticipated Letting: 2018



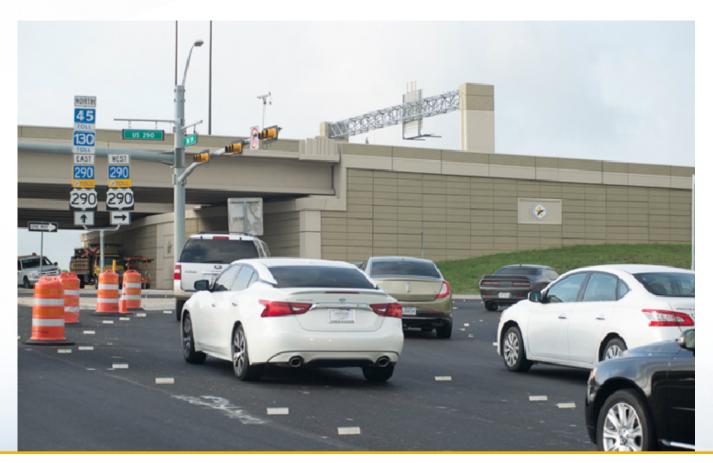
290 TOLL PHASE III (DIRECT CONNECTOR RAMPS)





WHAT WILL WE BUILD?

Three new direct connector bridges will be constructed between SH 130 and 290 Toll.



At grade travel at the intersection of 290 Toll and SH 130 today

The new ramps will:

- give drivers a free-flowing, direct connection between SH 130 and 290 Toll without the need to pass through a signalized intersection
- reduce travel delays at the non-tolled general purpose lane intersections.





WHAT WILL WE BUILD?

Two variably-priced express lanes in each direction in the existing median, one additional general purpose lane, and significant reconstruction of the existing general purpose lanes in

each direction along a thirteen-mile stretch of US 183.

Project Limits: SH 45/RM 620 southerly to MoPac; along MoPac from US 183 to RM 2222 (Direct Connector)

Delivery Method: TBD

Total Project Cost: \$484-\$501 million

Schedule:

- Environmental Clearance: Received April 2016
- Anticipated Letting:
 - Design/Build: June 2018; Design-Bid-Build: April 2019

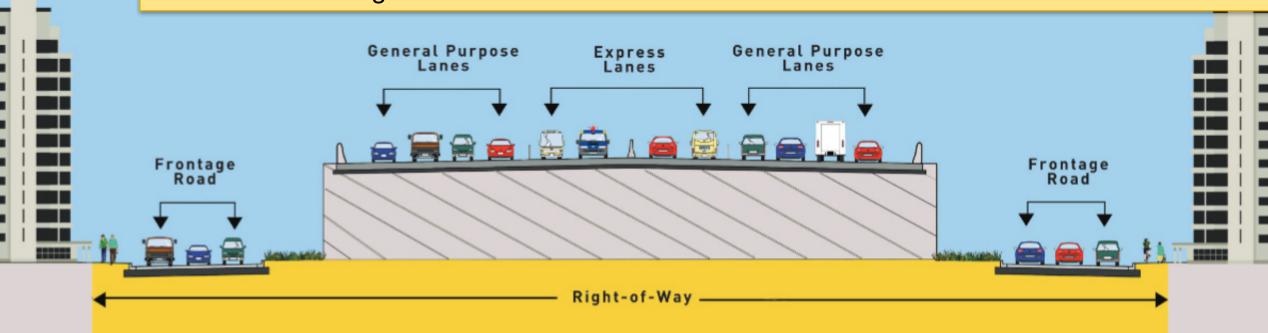




183

WHAT WILL WE BUILD?

Two variably-priced express lanes in each direction in the existing median, one additional general purpose lane, and significant reconstruction of the existing general purpose lanes in each direction along an thirteen-mile stretch of US 183.



The fourth non-tolled general purpose lane would be extended where only three exist now, creating four continuous general purpose lanes in each direction between MoPac and SH 45 North.

MOPAC SOUTH ENVIRONMENTAL STUDY





WHAT ARE WE STUDYING?

Proposal to add one to two variably-priced express lanes in each direction along eight miles of MoPac south of downtown.

Project Limits: Cesar Chavez St. Southerly

to Slaughter Lane

Delivery Method: TBD

Total Project Cost: \$435-540 million

Schedule:

- Environmental Finding: Anticipated 2018
- Anticipated Letting: TBD

KEY TO LINES 71 290 1826 William Cannon Dr. La Crosse Ave

Regional Mobility Authority

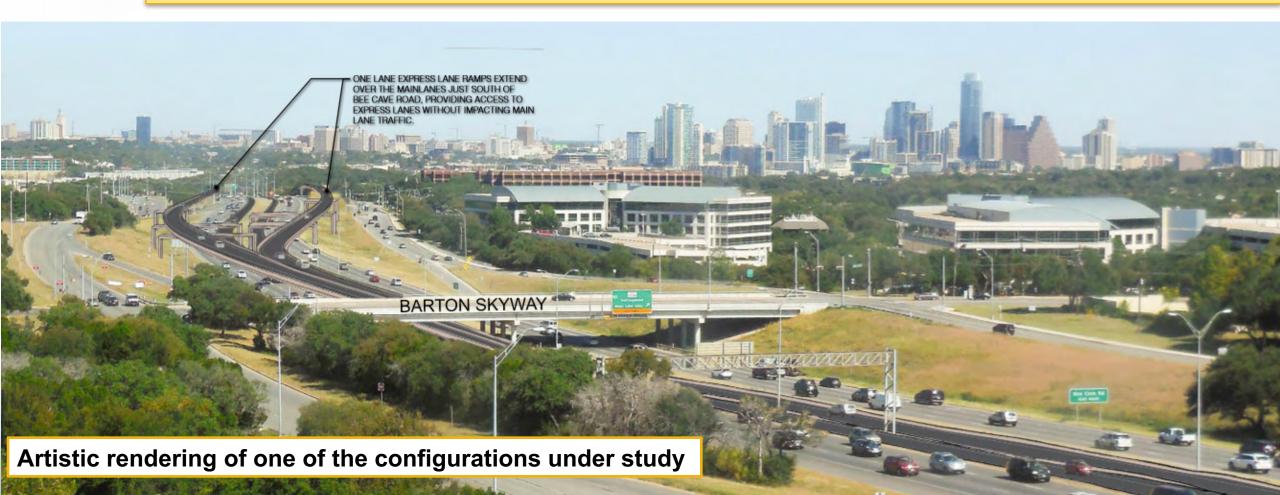
MOPAC SOUTH ENVIRONMENTAL STUDY





WHAT ARE WE STUDYING?

Proposal to add one to two variably-priced express lanes in each direction along eight miles of MoPac south of downtown.



OAK HILL PARKWAY ENVIRONMENTAL STUDY





WHAT ARE WE STUDYING?

Proposal to add three tolled lanes in each direction and upgrade the existing non-tolled general purpose lanes along approx. four miles of US 290 and one mile of SH 71 in southwest Austin.

Project Limits: US 290 West: West of RM 1826 easterly to

MoPac; SH 71 West: Silvermine Drive to US 290

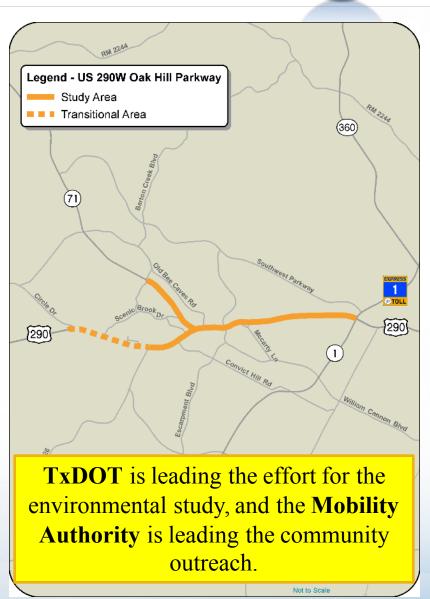
Delivery Method: TBD

Total Project Cost: \$550-\$600 million

Schedule:

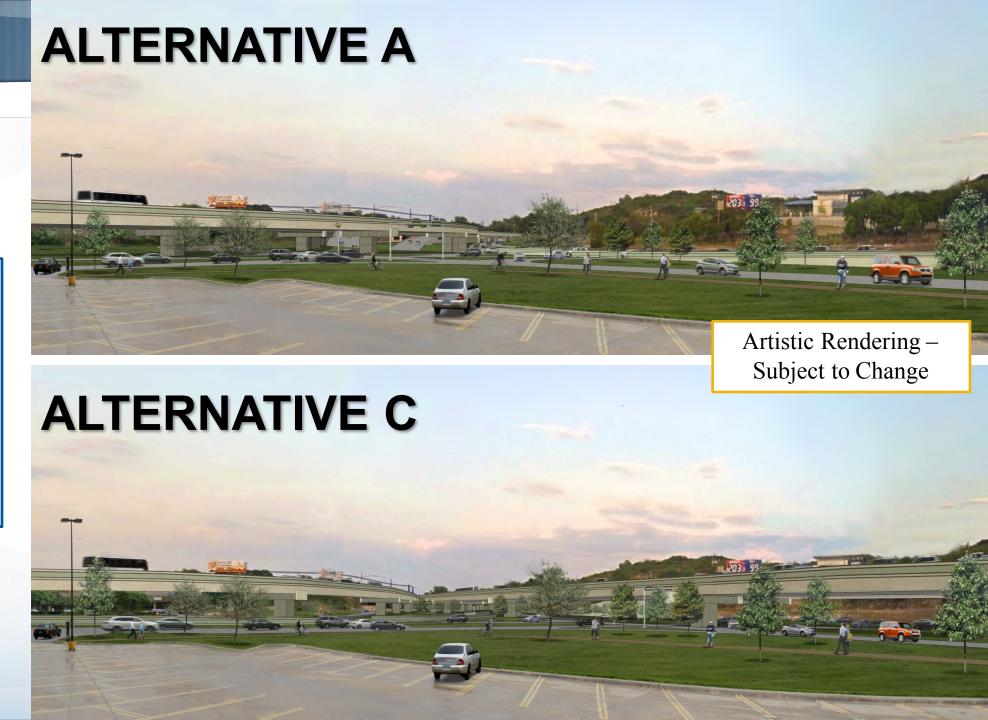
- Environmental Finding: Anticipated 2018
- Anticipated Letting: TBD

Regional Mobility Authority





Public Hearing anticipated later this year



183A PHASE III





WHAT ARE WE STUDYING?

Proposal to add two to three toll lanes in each direction as a five mile extension of 183A northward to SH 29

Project Limits: Hero Way to SH 29

Delivery Method: Design-Bid-Build

Total Project Cost: \$210 million

Schedule:

- Environmental Finding: Anticipated 2018
- Anticipated Letting: April 2019

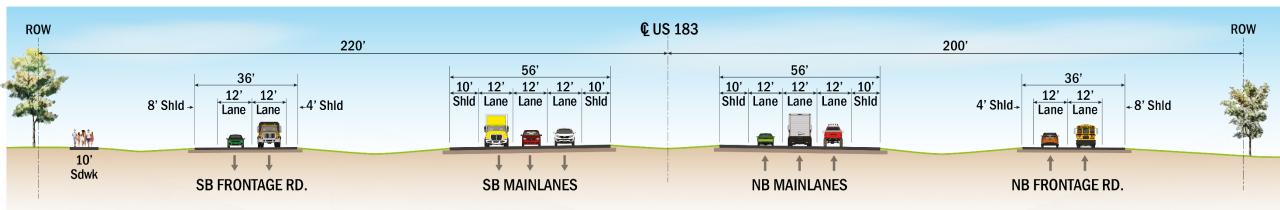
LIBERT HILL 183A **₩TOLL** 183A **PHASE III** South San Gabriel River **PROJECT** FM 276 **LEANDER** W. San Gabriel Pkwy. Hero Way **LEGEND** 183 183A Phase III 183A Toll Road Major Roadways





WHAT ARE WE STUDYING?

Proposal to add two to three toll lanes in each direction as a five mile extension of 183A northward to SH 29



MOKAN CORRIDOR



WHAT ARE WE STUDYING?

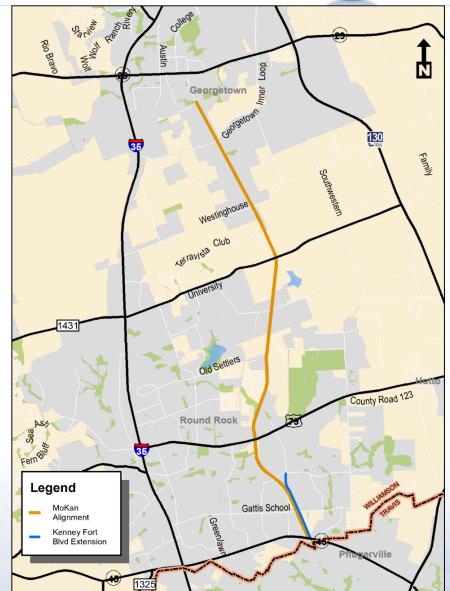
Proposal to look into possible transportation uses of a nine-mile portion of the abandoned MoKan rail corridor.

Project Limits: SH 45 to SE Inner Loop

Delivery Method: TBD

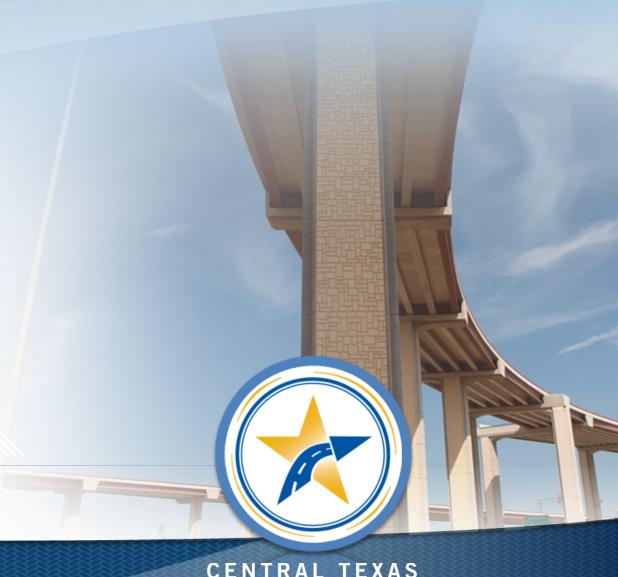
Total Project Cost: TBD

Schedule: TBD



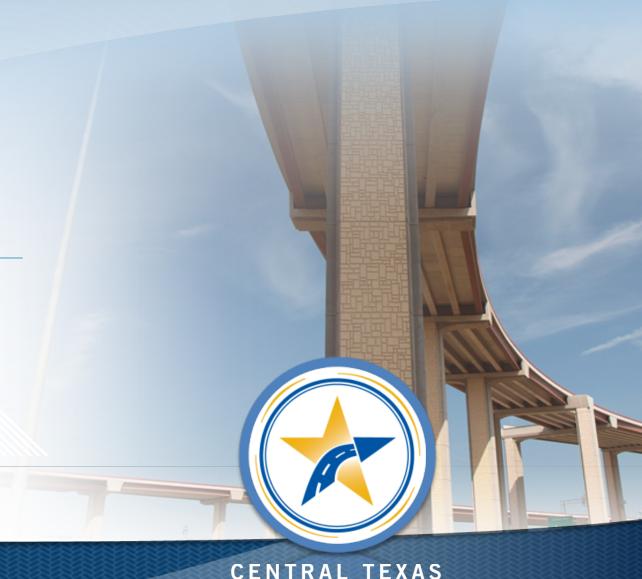
Engineering Delivery Structure

Jeff Dailey, Deputy Executive Director Justin Word, Director of Engineering May 15, 2017



Project Delivery Enhancements

Jeff Dailey, Deputy Executive Director Justin Word, Director of Engineering May 15, 2017



Project Delivery Enhancements

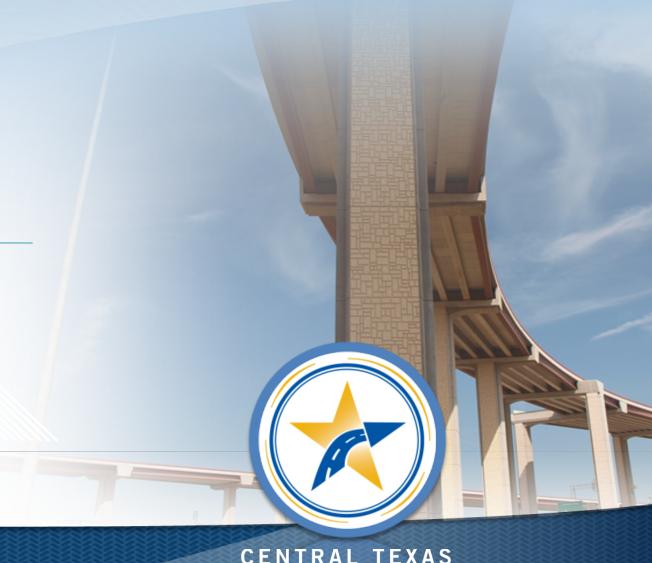


- More rigorous review of low bid qualifications and amount
- Increased outreach with contractors prior to and during procurements
- Detailed and specific plan to contractors, no room for deviations
- Balanced risk management contract terms
- Detailed utility exploration, preliminary design, and coordination
- Specify the lane rental bank amount
- Invest in a single point of contact at the City of Austin
- Environmental Compliance Monitor
- Invest in Community Outreach Budget and Go Dynamic, Robust
- Include sustainability requirements (i.e. Greenroads® Certification)

Ethics Training

Geoff Petrov, General Counsel

May 15, 2017



WHAT TO AVOID & WHAT TO DO



AVOID: THE APPEARANCE OF IMPROPRIETY

• DO: CONSULT WITH YOUR EXECUTIVE DIRECTOR OR GENERAL COUNSEL

RMA Ethics and Internal Compliance Program



- Required for all RMAs and all entities that receive financial assistance from TxDOT
- Designed to detect and prevent violations of law, regulations, and ethical standards
- Periodic training required for all RMA officers and employees

Training Requirements



- Open Meetings Attorney General Certification
- Open Records Attorney General Certification
- Personal Financial Statements Annual Report
- Internal Ethics & Compliance Program Ongoing

Topics for Ethics Training



- Conflicts of Interest
- Gifts and Honoraria
- Use of RMA Property
- Public Information and Retention of Records

- Open Meetings
- Personal Financial Statements
- Compliance Standards and Procedures

Conflicts of Interest



Board members may not:

- Accept employment or engage in business activities that might induce disclosure of confidential information or impair independence of judgment
- Make personal investments that could create a conflict between their private interest and that of the RMA
- Have a personal interest in an RMA contract

Conflicts of Interest



Board members may not:

- Be employed by, or own or control more than a 10% interest in, a business that is regulated by or receives money from TxDOT or the RMA
- Use or receive a substantial amount of tangible goods, services, or money from TxDOT or the RMA

Conflicts of Interest



Board members must:

- File an affidavit and abstain from participation in a matter that could have a special economic effect on a business entity or real property in which the member has a substantial interest
- File a conflicts disclosure statement to disclose a business relationship with a potential RMA contractor



Board members may not accept:

- Any benefit that is being offered in an attempt to influence the member
- Any benefit from a potential contractor during a pending procurement



Board members may not accept:

- An honorarium for services related to the member's position with the RMA
- Benefits other than food, lodging, transportation, or entertainment from those with an interest in RMA contracts, including current consultants

Use of RMA Property



- Computers and software (including email systems), phones, fax and copy machines, and other equipment owned or leased by RMA or provided for RMA use should be used for official RMA business only
- Lost or stolen property must be reported immediately

Public Information and Retention of Records



- Avoid using personal devices and email accounts when conducting RMA business
- Forward communications received on a personal account or device to an RMA server
- Assume that any communication regarding RMA business is subject to the TPIA, regardless of medium or public/private nature of account

Public Information and Retention of Records



- Notify RMA staff immediately of any requests for public information; cooperate in responding to requests
- DO NOT delete or destroy records that are the subject of a pending information request or litigation hold

Open Meetings



- Avoid successive one-on-one meetings (whether in person or by electronic means)
- Do not send texts, emails, or other electronic communications during an open meeting
- •Use caution when using "reply all"

Open Meetings



- DO NOT participate in a meeting that has not been properly called or a closed session that is not authorized
- Public officials can be held criminally liable for certain violations of the Open Meetings Act

Personal Financial Statements



- Must be filed annually with the Texas Ethics
 Commission
- Statement covers financial activity for the preceding year
- Form and instructions are provided by the Ethics Commission
- Due April 30 (or next business day) unless an extension is requested prior to the deadline

Compliance Standards and Procedures



Program Elements:

- Record Retention
- Fraud
- Equal Opportunity Employment
- Sexual Harassment & Sexual Misconduct
- Conflicts of Interest
- Personal Use of CTRMA Property
- Gifts and Honoraria

Compliance Standards and Procedures



- A suspected violation of RMA policies, a violation of law, or a breach of fiduciary duty must be reported immediately to the Executive Director or Chairman
- The ED or Chairman will take and enforce appropriate remedial measures or sanctions
- Retaliation for reporting suspected violations will not be tolerated

Compliance Standards and Procedures



Questions concerning whether a particular course of conduct is appropriate should be directed to the Executive Director or General Counsel.

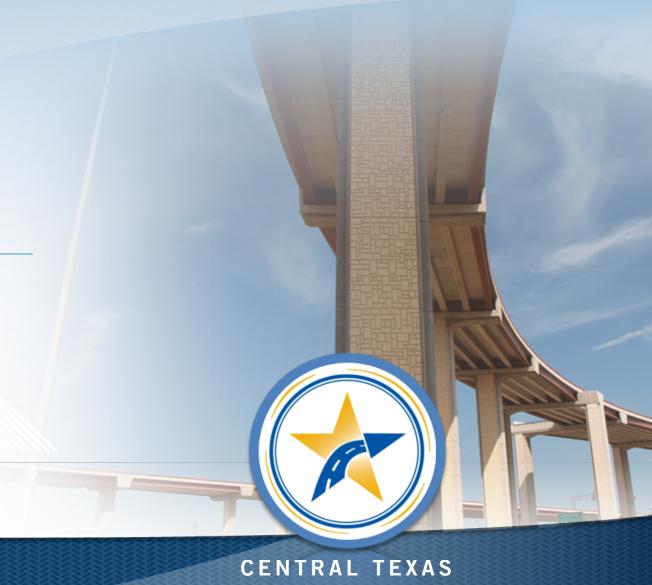


Call or email Geoff Petrov at (512) 450-6313 or gpetrov@ctrma.org.

Consensus Building on Regional Solutions

Bill Ilho, Stantec Matthew Juckes, Kapsch CTRMA Staff Clark Heidrick, AARO

May 15, 2017



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Topics for Discussion



- Traffic and revenue history and future mobility planning
- Technology Commute Solutions, other traffic apps, cyber security/privacy, big data, etc.
- Research (CTRMA behavioral study, AARO Study, etc.
- Partnerships with TxDOT, Local Municipalities, Travis and Williamson Counties, FHWA and other key stakeholders

Traffic and Revenue History and Future Mobility Planning

Bill Ilho, Stantec

May 15, 2017



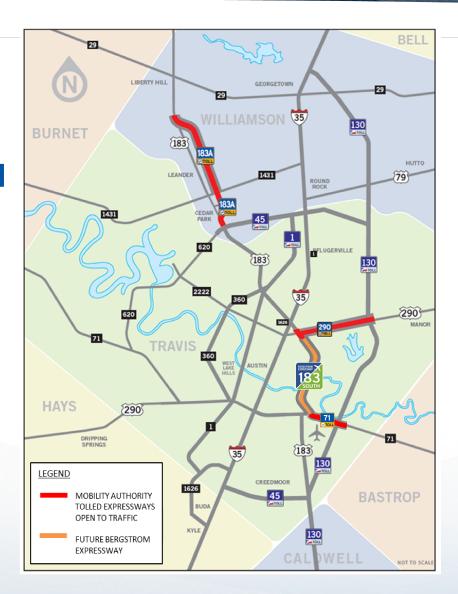
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Austin T&R History



- 1998 Initial Feasibility
 Studies
- 2006-2007: SH 130, SH
 45 N, Loop 1, 183A
- 2008-2017: SH 45 SE, 290E, 71E



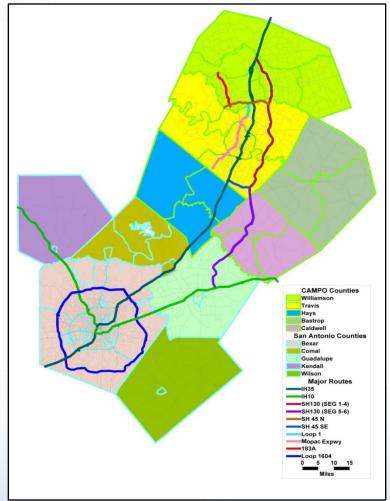
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Travel Demand Model Limits



Traffic Model Limits



Travel Demand Model

- Austin Region (CAMPO)
- San Antonio Region (AAMPO)
- TransCAD Model/Cube Assignment
- Area 7,500 sq. mi ± (50x150)
- Network Links

Freeway & Ramps	5k	
Principal Arterial	10k	
Major Arterial	12k	
Frontage Rds	5k	
Collectors	10k	
Total	42k	

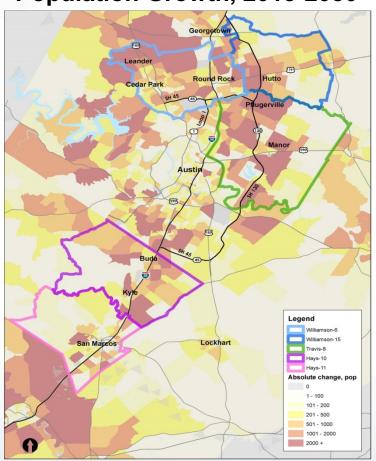
Calibration Update Counts
 >2200 Links (60 hours per Model Run – Multiple Iterations)

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Demographics

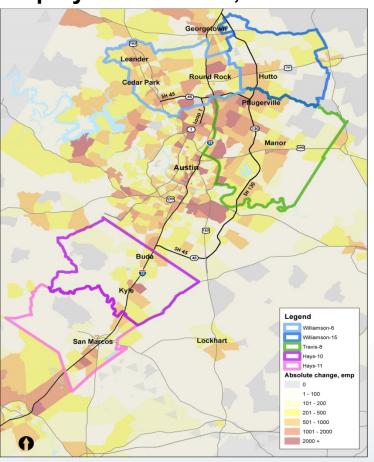


Population Growth, 2013-2030



Source: Michael Bomba, PhD

Employment Growth, 2013-2030



Source: Michael Bomba, PhD

Traditional Risk Factors

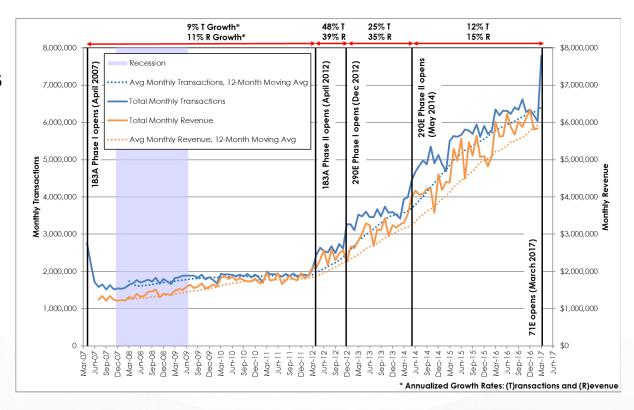


- Greenfield vs Developed Areas
- Socioeconomic Growth
- Network Improvements
- Value of Time
- Electronic Toll Collection
- Revenue Leakage
- Toll Policy
- Marketing & Signage

Austin T&R Performance



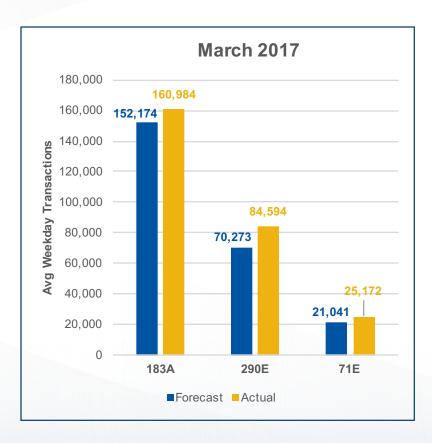
- Most roads have met or exceeded forecasts
- Cashless conversion
- Accelerated construction
- New projects
- Toll policy tied to inflation index
- Diverse economy
- The system begins to develop

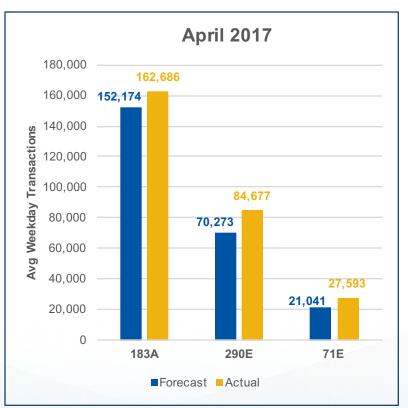


Austin T&R Performance



Average weekday transactions are also exceeding forecasts

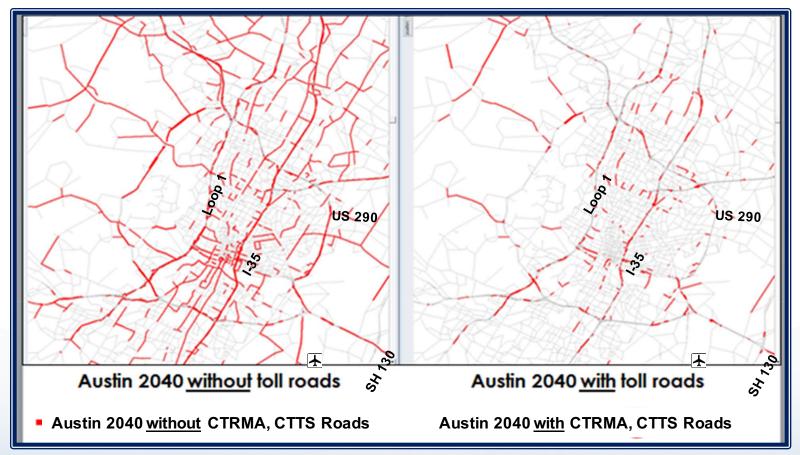




What Happens without Toll Roads



Toll roads required to meet Austin's infrastructure needs



Future Highway Projects



- Under Construction:
 - MIP
 - Bergstrom Expressway
- Planning & Design:
 - 290E Phase III
 - SH 130 widening
 - 183N Managed Lanes
 - 183A Phase III
 - Oak Hill Pkwy
 - IH-35
 - MoKan
- Congestion Pricing
- The System matures
- Feeders & Competitors



Other Initiatives



- Transit System Expansion
- Park & Ride
- MaaS (Helsinki experience)
- Commute Solutions
- Mobility apps
- Connected & Autonomous Vehicles (CAV)

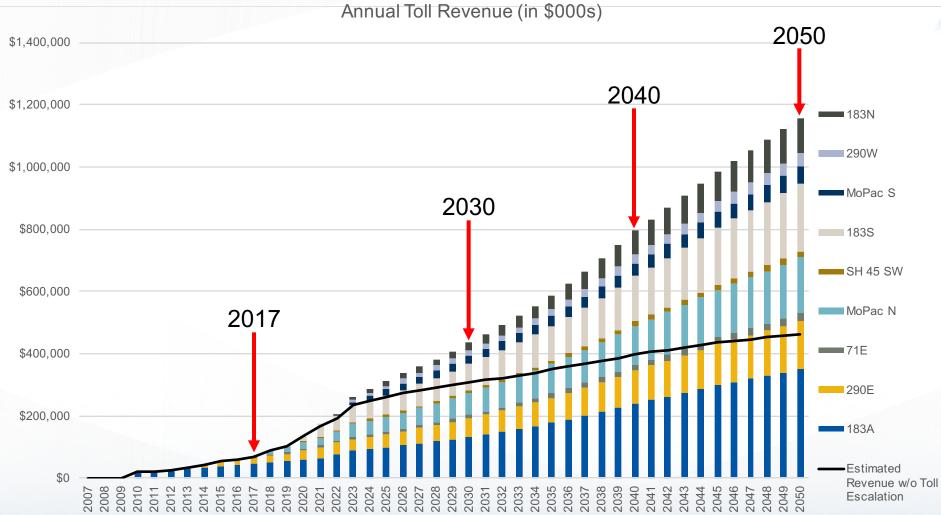
Future T&R Risk Factors



- All of the Traditional Risk Factors
- System is more complex
- New technology
- CAV's
- Political Influences (NAFTA)
- Board policies that could impact traffic and revenue

Annual Toll Revenue Projections







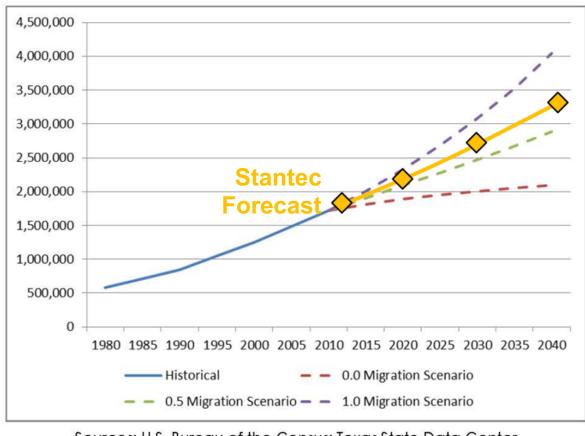
Questions and Comments?



Appendix

Population Growth Projections Match Historical Trends





Year	Population	Growth	Rate of
	Population	per year	Growth
1980	585k		
1990	846k	26k	3.8%
2000	1,250k	40k	4.0%
2010	1,716k	47k	3.2%
2013	1,883k	56k	3.1%
2014	1,923k	40k	2.1%
2015	1,969k	46k	2.4%
2020	2,188k	44k	2.1%
2030	2,654k	47k	1.9%
2040	3,166k	51k	1.8%

CAMPO

Annualized

Sources: U.S. Bureau of the Census; Texas State Data Center

Consumer price index assumptions conservative compared to historical values



- Toll rates are escalated on January 1 of every year based upon the published CPI data available in August/September
- The Board has the option to choose an escalation rate different than the CPI
- The average annual growth of nominal CPI for the past 30 years is 2.9% per year; the effective rate for 2014-2050 is 2.6%.
- Stantec is applying the following toll rate escalators in the forecast:

- 2015: 1.9%

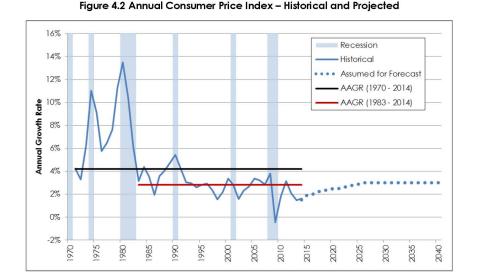
- 2016: 2.0%

- 2017: 2.2%

– 2018: 2.3%

- 2019: 2.4%

- 2020-2040: 2.5%-3.0%





Agenda



- What is Big Data?
 - Capture
 - Manage
 - Analysis
- > Dynamic Pricing Algorithm Validation
- Incident and Congestion Prediction
- > Equipment Failure Prediction
- Pattern Evaluation and Market Analysis

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What Is Big Data?



"Big data is a collection of data from traditional and digital sources inside and outside your company that represents a source for ongoing discovery and analysis." – Lisa Arthur, Contributor – Forbes.com

Big Data Management and the Process

Acquisition

Processing

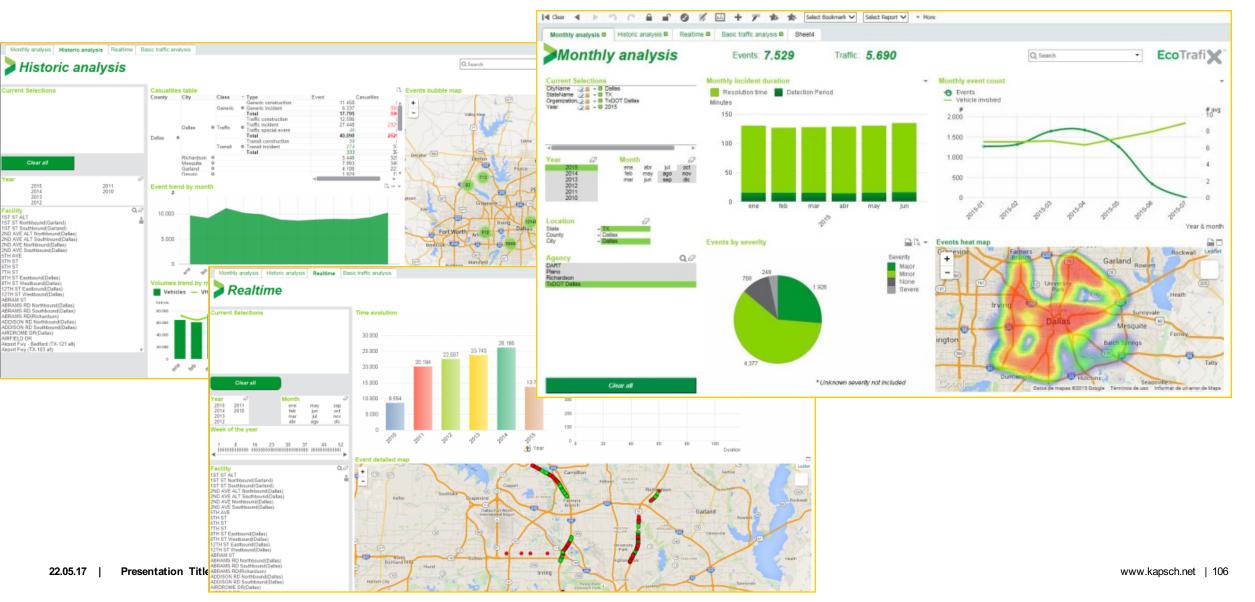
Aggregation

Delivery

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Performance Measures & Data Sharing

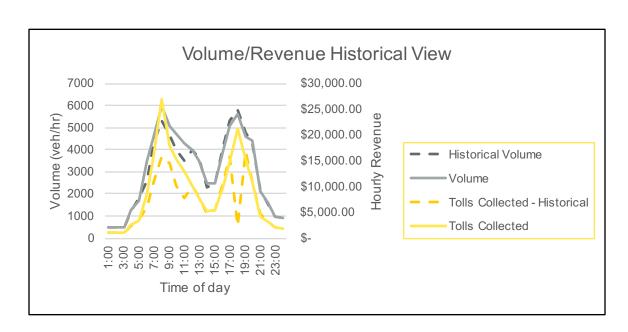


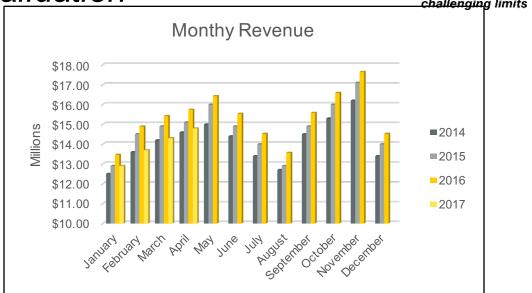


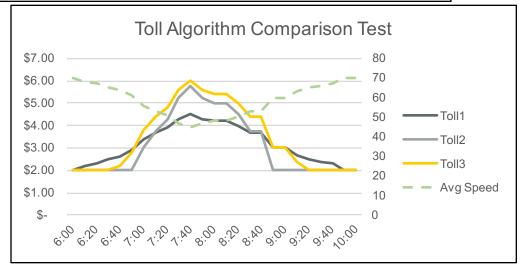
Dynamic Pricing Algorithm Testing and Validation



- Trend Analysis
- > Daily Toll Revenue Review
- > Toll Algorithm Testing
- > Toll Predictive Algorithms







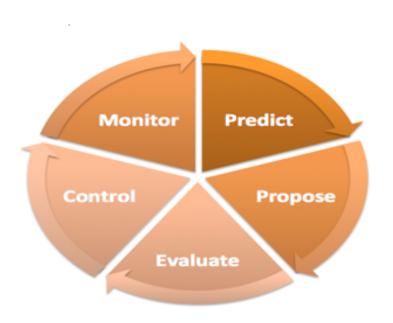
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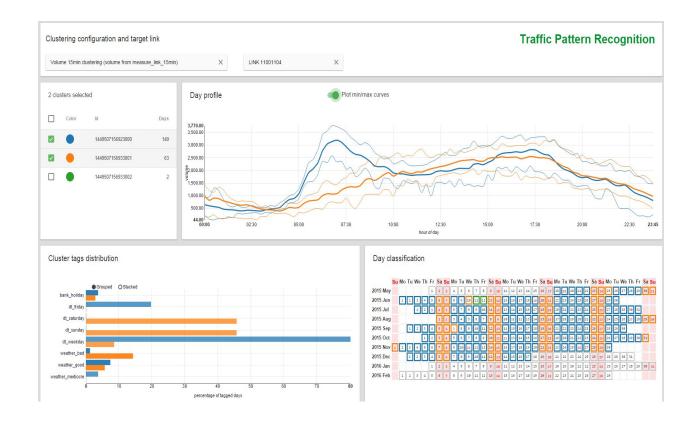
Incident and Congestion Predictions



- Analytics for Flow/Speed/Travel time Predictions
- > Historical Pattern Based Profiles

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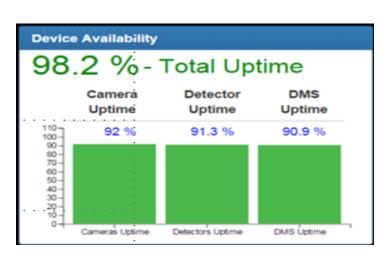
Maintenance and Tolling Device Failure Prediction



- Manage and Monitor Health of Devices
- > Predict Device Maintenance Schedule prior to Failure

Trouble Tickets	Broward ITS	Palm Beach ITS	N3C ITS
Generated Daily (# of tickets)	1	4	1
Completed Daily (# of tickets)	1	4	0
Average Response Time (min)	3280	1097	2715
Average Completion Time (min)	105	857	0

Maintenance Activity			
	Montly Average	Daily Average	Current
MIMS Trouble Tickets	6.3	5.2	5.8
MIMS Preventative Maintenance Tickets	65.8	6.2	8



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Technology



- Traffic Management Center (TMC)
- Fiber
- Cyber security/privacy

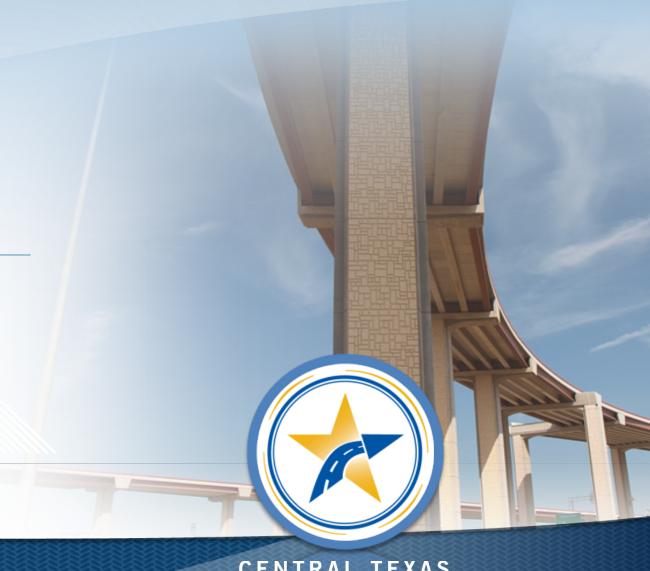




AARO Research Study

Clark Heidrick, AARO

May 15, 2017



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Roundtable Discussion

May 15, 2017



Closing Comments and Feedback

May 15, 2017





CENTRAL TEXAS Regional Mobility Authority