



El Paso Metropolitan Planning Organization

Transportation Policy Board

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**Roger Williams,
Interim Executive Director**

March 25, 2019

Mr. Trent Doolittle, P.E., District Engineer
NMDOT-District 1
2912 E. Pine Street
Deming, NM 88030

Dear Mr. Doolittle:

Enclosed are revised TIP pages for inclusion into the 2018-2023 Statewide Transportation Improvement Program (STIP). The Transportation Policy Board (TPB) approved the following amendments to the 2045 Destino Metropolitan Transportation Plan (MTP) and the Destino 2019-2022 Transportation Improvement Program (TIP) at its March 22, 2019 meeting.

Highway Projects:

1. Amend the NM 404 Phase C/D and Phase II FY 2019 Project (MPO ID M644X/CN E100200) to add \$500,000 of Border State Infrastructure (SBSI) funds to the already existing \$980,000 SBSI funds for a total of \$1,480,000 in fiscal year (FY) 2019.

The Transportation Project Advisory Committee (TPAC) meeting and the Transportation Policy Board (TPB) meetings were used as open forums for the MPO public involvement process, and these project have no apparent adverse effects on air quality conformity. These meetings were advertised in local newspapers.

Sincerely,

Roger Williams
Interim Executive Director

Enclosures

cc: Jolene Herrera, NMDOT, South Region Design

Fed FY 2019 (Oct - Sept)

DISTRICT	COUNTY	CSJ/CN	HWY	PHASE	CITY	PROJECT SPONSOR	YOE COST
NM DIST. 1	DA	E100200	NM 404	E	Chaparral NM	NMDOT	\$1,480,000
TIP PROJECT NAME: NM 404 Phase C/D and Phase II FY2019 Funding						REVISION DATE:	03/2019
LIMITS FROM:	I-10/NM 404 Intersection					MPO PROJECT ID:	M644X
LIMITS TO:	NM 404/NM 213 Intersection					MTP REFERENCE:	M644X
TIP DESCRIPTION:	Phase C/D (environmental and preliminary design) and Phase II (final design) for the NM 404 projects to include: NM 404/I-10 Bridge Replacement, Super 2 project, and 4 lane project					FUNDING CATEGORY:	SBSI Border
REMARKS:	Amend D2045 MTP, D19-22 TIP, 18-23 STIP to add \$500,000 of Border State Infrastructure (SBSI) funds to the already existing \$980,000 SBSI funds for a total of \$1,480,000 in fiscal year (FY) 2019.						

PROJECT HISTORY:
Program D2045 MTP, D19-22 TIP, 18-21 STIP, in FY 2019.

Total Project Cost Information:		Authorized Funding by Category/Share									
				Federal Share	State Share	Regional Share	Local Share	Lcl Contribution	Total Share		
Preliminary Engineering:	\$1,480,000	Cost of Approved Phases:	Cat	NM State Funds	SBSI Border	\$1,264,512	\$215,488	\$0	\$0	\$0	\$1,480,000
Right Of Way:	\$0										
Construction:	\$0										
Construction Engineering:	\$0										
Contingencies:	\$0										
Indirects:	\$0										
Bond Financing:	\$0										
Potential Change Order:	\$0										
Total Project Cost:	\$1,480,000			Fund by Share	\$1,264,512	\$215,488	\$0	\$0	\$0	\$1,480,000	

AMENDMENT HISTORY

History STIP Rev Date	History FY	History Date	History Note/Amendment
02/2018	2019	12/2017	Amend H2040 MTP, H2017-2020 TIP and NM 2016-2020 STIP to program in FY 2019.
03/2019	2019	03/2019	Amend D2045 MTP, D19-22 TIP, 18-23 STIP to add \$500,000 of Border State Infrastructure (SBSI) funds to the already existing \$980,000 SBSI funds for a total of \$1,480,000 in fiscal year (FY) 2019.
07/2018	2019	05/2018	Program D2045 MTP, D19-22 TIP, 18-21 STIP, in FY 2019.

**Destino 2045 MTP Project List
New Mexico Highway and Roadway Projects (NM funds)**

CN	Project ID	Project Name	Project Description	From	To	Network	Current Const. Cost / 2013-2040 Cost	Est. Construction Cost / YOE Cost (Includes Inflation)	Est. PE Cost (Includes Inflation)	Est. ROW Cost (Includes Inflation)	Total Project Cost/YOE (Includes Inflation)	Sponsor	YOE (FY)
E100200	M644X	NM 404 Phase C/D and Phase II FY2019 Funding	Phase C/D (environmental and preliminary design) and Phase II (final design) for the NM 404 projects to include: NM 404/I-10 Bridge Replacement, Super 2 project, and 4 lane project	I-10/NM 404 Intersection	NM 404/NM 213 Intersection	2020	\$0	\$0	\$1,480,000	\$0	\$1,480,000	NMDOT	2019

EL PASO MPO - New Mexico District 1 & 2
2018- 2022 NM State Transportation Improvement Program
Destino 2019-2022 TIP

Friday, March 22, 2019

Funding by Category

Description	FY 2019		FY 2020		FY 2021		FY 2022		Total FY 2019 - 2022	
	Programmed	Authorized	Programmed	Authorized	Programmed	Authorized	Programmed	Authorized	Programmed	Authorized
CAQ (CMAQ Mandatory)	\$1,444,165	\$1,444,165	\$0	\$0	\$0	\$0	\$0	\$0	\$1,444,165	\$1,444,165
Dona Ana County	\$11,154	\$11,154	\$0	\$0	\$7,323	\$7,323	\$7,323	\$7,323	\$18,477	\$18,477
NHPP (National Highway Performance Program)	\$0	\$0	\$0	\$0	\$2,800,000	\$2,800,000	\$0	\$0	\$2,800,000	\$2,800,000
NM State Funds	\$1,480,000	\$1,480,000	\$0	\$0	\$2,700,000	\$2,700,000	\$0	\$0	\$4,180,000	\$4,180,000
STPF (Surface Transp Prog Flexible)	\$0	\$0	\$0	\$0	\$3,000,000	\$3,000,000	\$0	\$0	\$3,000,000	\$3,000,000
STPL (Surface Transp Prog Large Urban >200K)	\$812,000	\$812,000	\$0	\$0	\$1,000,000	\$1,000,000	\$0	\$0	\$1,812,000	\$1,812,000
TAPL (Transp. Alternative Prog Large Urban >200K)	\$54,018	\$54,018	\$50,420	\$50,420	\$42,619	\$42,619	\$42,619	\$42,619	\$147,057	\$147,057
Total	\$3,801,337	\$3,801,337	\$50,420	\$50,420	\$9,549,942	\$9,549,942	\$49,942	\$49,942	\$13,451,641	\$13,451,641

Funding Participation Source

Source	FY 2019	FY 2020	FY 2021	FY 2022	Total
Federal Participation	\$3,231,564	\$43,079	\$8,153,214	\$36,414	\$11,464,271
State Participation	\$215,488	\$0	\$1,383,200	\$0	\$1,598,688
Local Participation	\$343,131	\$7,341	\$6,205	\$6,205	\$362,882
Local/State Contributions	\$11,154	\$0	\$7,323	\$7,323	\$25,800
Total	\$3,801,337	\$50,420	\$9,549,942	\$49,942	\$13,451,641



The Moving Ahead for Progress (MAP-21) federal transportation bill instituted performance measurement to provide greater accountability and transparency to achieve the most efficient and effective investment of transportation resources. Performance measurement requirements were refined in the Fixing America's Surface Transportation (FAST) Act. State DOTs and Metropolitan Planning Organizations (MPOs) are required to move towards a performance-based planning process with an emphasis on project selection based on specific planning factors.

Under Map-21, States are required to set annual safety performance targets. The annual measures States set targets for include:

1. Number of Fatalities,
2. Rate of Fatalities per 100 million Vehicle Miles Traveled (VMT),
3. Number of Serious Injuries,
4. Rate of Serious Injuries per 100 million VMT, and
5. Number of Non- Motorized Fatalities and Non-Motorized Serious Injuries

The New Mexico Department of Transportation (NMDOT) established their statewide targets. Once the state set their safety targets, MPOs were required to either adopt the state's targets or set their own that would help achieve the statewide target. The El Paso MPO chose to adopt the state's targets. These statewide targets are:

NMDOT:

- Total Traffic Fatalities Per Calendar Year: 389.1
- Rate of Traffic Fatalities Per 100M VMT: 1.318
- Number of Serious Injuries: 870.3
- Rate of Serious Injuries Per 100M VMT: 2.745
- Number of Non-Motorized Fatalities and Serious Injuries: 220.6

Here is a list of projects to assist in achieving the PM1 Target for New Mexico:

- E100221-4th Street Roadway Improvements: This project addresses the pedestrian/bicycling serious injury and fatality performance target by providing multimodal accommodations that currently do not exist.
- E100290-Lisa Drive Connectivity Project: This project addresses the pedestrian/ bicycling serious injury and fatality performance target by providing a separated multiuse path outside of the roadway prism for multimodal traffic.
- E100200-NM 404 Phase C/D and Phase II FY 2019 Funding: This is the PE phase of the NM 404 corridor; this phase doesn't directly address the performance targets but the construction phases will.
- E100202-NM 404/I-10 Bridge Replacement: This project will help to reduce rear end crashes on I-10 by reconfiguring the interchange to prevent or reduce backup onto the Interstate travel lanes. Additionally, the bridge will be widened to allow for multimodal accommodations that currently do not exist and create a gap in the system from the City of Anthony to the Dona Ana Community College branch.

As part of the FAST Act, performance measures were incorporated for transit agencies, primarily through the Transit Asset Management (TAM) assessment and planning requirements. Sun Metro's TAM plan was developed to meet that requirement. Sun Metro continuously seeks grants through the regional MPO in order to supplement the competitive and formula funding grants available from the FTA. Primarily Sun Metro applies for FHWA Congestion Mitigation and Air Quality (CMAQ) and Surface Transportation Program (STP) funding through the MPO. Funding from these grants are crucial to the agency's State of Good Repair (SGR) program and the resulting Transit Asset Management Plan (TAM). CMAQ funds provide for new and replacement bus funding, to include vehicles needed for new and extended services. Funding also allows for new or enhancements of terminals and stops to include accessibility and passenger amenities if associated with new or extended services. STP provides similar funding but without the new or extended service requirements. This grant funding not only permits Sun Metro to provide efficient and dependable service but supplements funding from other sources necessary to maintain SGR standards. In FY2019 CMAQ, the federal funding portion obtained through the regional MPO, will total approximately \$5.5M for operating assistance (Dyer and Alameda BRT's and Streetcar services) plus replacement funding for three buses. As of October 2018 Sun Metro had been awarded approximately \$7.1M of funds for new revenue vehicles that were unspent or pending, including grants obtained through the CMAQ program and other grant programs.



PERFORMANCE BASED PLANNING AND PROGRAMMING



APPENDIX D: PERFORMANCE BASED PLANNING AND PROGRAMMING

Measuring and tracking the performance of the region's transportation system is a fundamental component of the Metropolitan Transportation Plan (MTP) and the performance-based planning process. Federal legislation passed in 2012 introduced a new requirement to incorporate a performance-based approach into the transportation planning process. The legislation, the Moving Ahead for Progress in the 21st Century Act, known as MAP-21, requires state Departments of Transportation (DOT), Metropolitan Planning Organizations (MPO), and transit authorities to set coordinated targets, report on a required set of performance measures, and prioritize projects using a coordinated performance-based planning process. These performance requirements were continued and reinforced by the Fixing America's Surface Transportation (FAST) Act, which was signed into law in 2015. Four Transportation Performance Management final rules have been released by the Federal Highway Administration and the Federal Transit Administration, passed through standard rulemaking procedure, and are now effective. Each final rule lists required measures, data sources, and calculation procedures.

The final rules include:

- Highway Safety Improvement Program, known as PM1
- Assessing Pavement Condition for the National Highway Performance Program and Bridge Condition for the National Highway Performance Program, known as PM2
- Assessing Performance of the National Highway System, Freight Movement on the Interstate System, and Congestion Mitigation and Air Quality Improvement Program (CMAQ), known as PM3
- Transit Asset Management

Federal performance measure final rules establish deadlines for target setting and reporting for each of the required performance measures. For the measures identified in each final rule, MPOs are required to include adopted targets, baseline performance measures, and progress toward the targets in the Destino 2045 MTP adopted two years after the effective date of the final rule. The four performance measure final rules currently effective were established at different times, and therefore have different target-setting and implementation deadlines, as seen below:

Final Rule	Rule Effective Date	Target Setting Deadlines			Required to be Included in MTPs
		Provider	State DOT	MPO	
Safety (PM1)	4/14/2016	N/A	8/31/2017	2/16/2018	5/27/2018
Pavement and Bridge Condition (PM2)	5/20/2017	N/A	5/20/2018	11/16/2018	5/20/2019
System Performance/Freight/CMAQ (PM3)	5/20/2017	N/A	5/20/2018	11/16/2018	5/20/2019
Transit Asset Management	10/01/2016	1/01/2017	10/01/2017	9/21/2018	10/01/2018

*Safety (PM1) is updated yearly



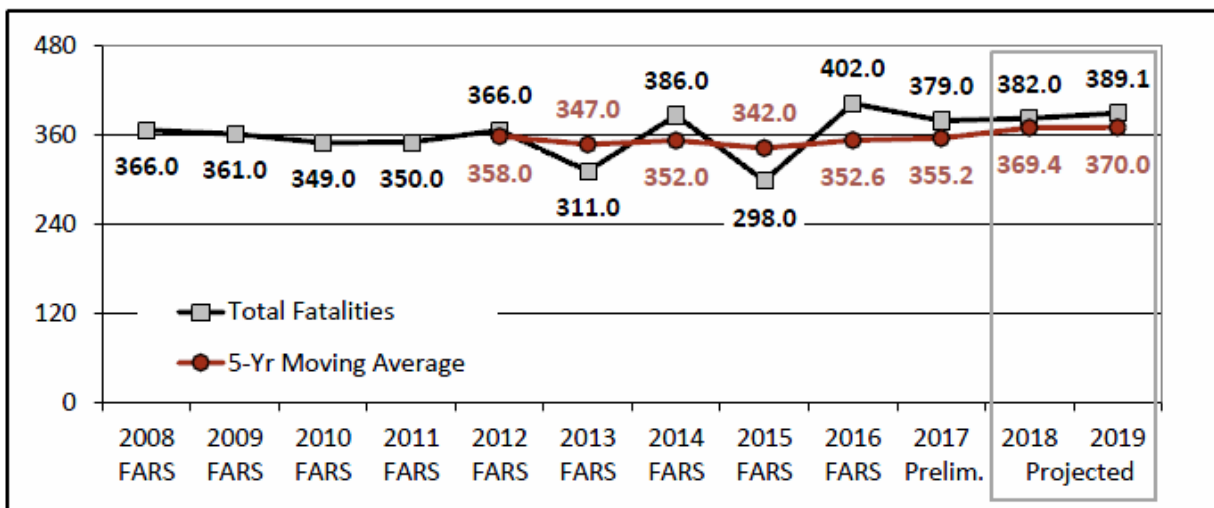
Safety (PM1):

On January 25, 2019 the El Paso MPO adopted the State of Texas Department of Transportation (TXDOT) and New Mexico Department of Transportation (NMDOT) targets for 5 Safety Performance measures based on five-year rolling averages for:

1. Number of Fatalities,
2. Rate of Fatalities per 100 million Vehicle Miles Traveled (VMT),
3. Number of Serious Injuries,
4. Rate of Serious Injuries per 100 million VMT, and
5. Number of Non- Motorized Fatalities and Non-Motorized Serious Injuries

NMDOT PM 1 Targets

1) Number of Total Fatalities

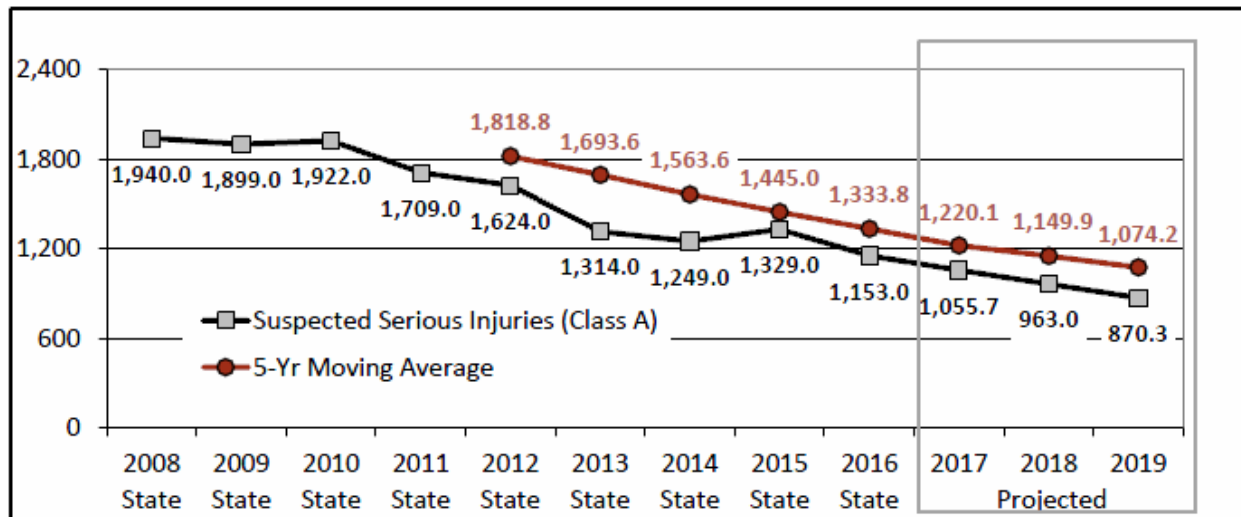


NMDOT Target Statement: Limit the increase in total fatalities to 6.4 percent from 352.6 in 2016 to 375 by December 31, 2019 (FARS; 5-year averages).

NMDOT Justification: Five-year average fatalities fell by 7 percent between 2011 and 2015, but then rose in 2016 to their highest level in ten years. 2017 preliminary data and 2018 and 2019 projected data indicate fatalities remaining high. Although the 5- year trend line indicates a 5 percent increase in overall fatalities from 2016 to 2019, given the projected increases in pedestrian, speeding and alcohol-impaired fatalities, the State has determined a 6.4 percent increase in overall fatalities to be an achievable target in 2019.



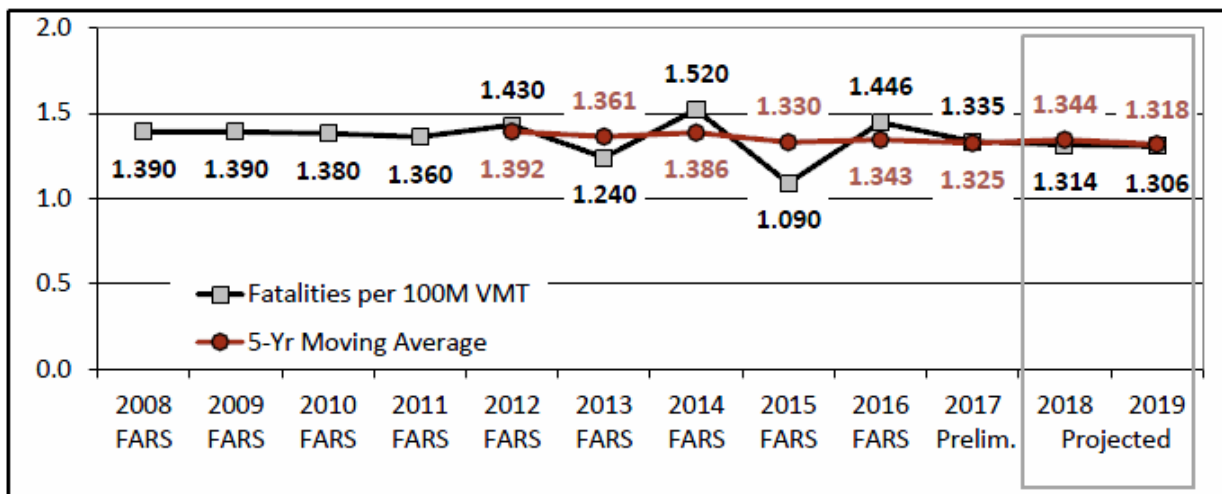
2) Number of Serious Injuries



NMDOT Target Statement: Decrease the number of serious injuries by 17.5 percent from 1,333.8 in 2016 to 1,100.0 by December 31, 2019.

NMDOT Justification: Five-year average serious injuries are projected to fall by 14.7 percent between 2016 and 2018, and the State anticipates a continued reduction in serious injuries in 2019. The State has determined a 17.5 percent reduction in these injuries from 2016 to 2019 is achievable.

3) Fatalities per 100M VMT

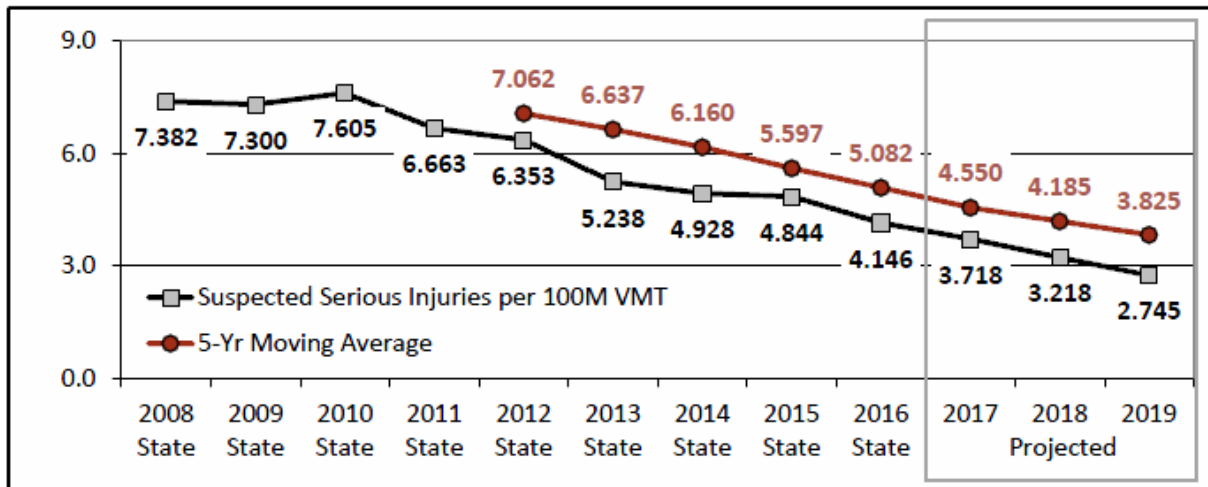


NMDOT Target Statement: Decrease the fatality rate from 1.343 in 2016 to 1.318 by December 31, 2019.

NMDOT Justification: Although five-year average fatalities are expected to increase in 2019 from 2016, with VMT expected to continue rising, the State determines that the projected 2019 five-year fatality rate is an achievable target.



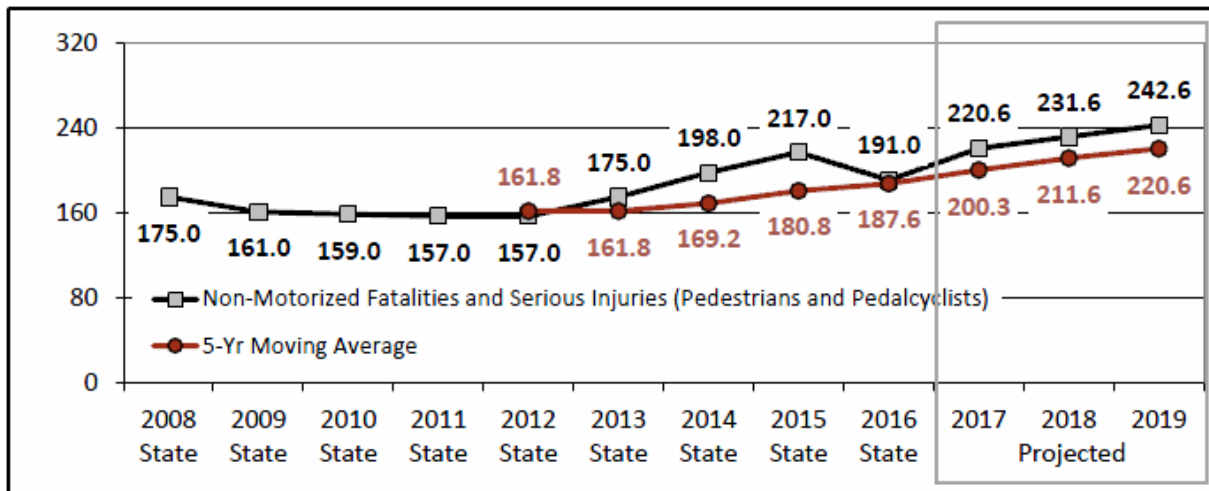
4) Serious Injuries per 100 VMT



NMDOT Target Statement: Decrease the rate of serious injuries from 5.082 in 2016 to 3.825 by December 31, 2019.

NMDOT Justification: Five-year average serious injury rates are projected to continue falling, and the State has determined the 2019 five-year average projection to be an achievable target.

5) Number of Non-motorized Fatalities and Serious Injuries



NMDOT Target Statement: Limit the increase in non-motorized fatalities and non-motorized serious injuries to 220.6 by December 31, 2019.

NMDOT Justification: Five-year average non-motorized fatalities and serious injuries are projected to rise over the next four years, and the State has determined the 2019 five-year average projection to be an achievable target.



TXDOT (PM1) TARGETS:

1. Total number of traffic fatalities:

Target: Total number of traffic fatalities (C-1)

2019 Target: To decrease the expected rise of fatalities to not more than a five-year average of 3,791.0 fatalities in 2019

The 2019 Target expressed as a 5-year average would be as follows:

Year	Target or Actual Data	Source
2015	3,582	FARS
2016	3,776	ARF
2017	3,726	CRIS
2018	3,891	Target
2019	3,980	Target
2019 Target expressed as 5-year average		3,791.0

As noted in the table above, the calendar year target for 2019 would be 3,980 fatalities.

2021 Target: To decrease the expected rise of fatalities from the projected 4,012 in 2019 to not more than 4,155 fatalities in 2021



2. Number of serious injuries:

Target: Total number of serious injuries (C-2)

2019 Target: To decrease the expected rise of serious injuries to not more than a five-year average of 17,751.0 serious injuries in 2019

The 2019 Target expressed as a 5-year average would be as follows:

Year	Target or Actual Data	Source
2015	17,110	CRIS
2016	17,602	CRIS
2017	17,546	CRIS
2018	18,130	Target
2019	18,367	Target
2019 Target expressed as 5-year average		17,751.0

As noted in the table above, the calendar year target for 2019 would be 18,367 serious injuries.

2021 Target: To decrease the expected rise of serious injuries from the projected 18,516 serious injuries in 2019 to not more than 18,835 serious injuries in 2021



3. Fatalities per 100 million vehicle miles traveled:

Target: Fatalities per 100 million vehicle miles traveled (C-3)

2019 Target: To decrease the expected rise of fatalities per 100 MVMT to not more than a five-year average of 1.414 fatalities per 100 MVMT in 2019

The 2019 Target expressed as a 5-year average would be as follows:

Year	Target or Actual Data	Source
2015	1.39	FARS
2016	1.39	ARF
2017	1.36	CRIS
2018	1.46	Target
2019	1.47	Target
2019 Target expressed as 5-year average		1.414

As noted in the table above, the calendar year target for 2019 would be 1.47 fatalities per 100 MVMT.

2021 Target: To decrease the expected rise of fatalities per 100 MVMT from the projected 1.48 fatalities per 100 MVMT in 2019 to not more than 1.49 fatalities per 100 MVMT in 2021



4. Serious Injuries per 100 million miles traveled:

Target: Serious Injuries per 100 million vehicle miles traveled

2019 Target: To decrease the serious injuries per 100 MVMT to not more than a five year average of 6.550 serious injuries per 100 MVMT in 2019

The 2019 Target expressed as a 5-year average would be as follows:

Year	Target or Actual Data	Source
2015	6.63	CRIS
2016	6.49	CRIS
2017	6.39	CRIS
2018	6.64	Target
2019	6.60	Target
2019 Target expressed as 5-year average		6.550

As noted in the table above, the calendar year target for 2019 would be 6.60 serious injuries per 100 MVMT.

2021 Target: To decrease the rate of serious injuries per 100 MVMT from 6.60 serious injuries per 100 MVMT in 2019 to 6.51 serious injuries per 100 MVMT in 2021



5. Total number of non-motorized fatalities and serious injuries:

Target: Total number of non-motorized fatalities and serious injuries

2019 Target: To decrease the expected rise of non-motorized fatalities and serious injuries to not more than a five year average of 2,237.6 non-motorized fatalities and serious injuries in 2019

The 2019 Target expressed as a 5-year average would be as follows:

Year	Target or Actual Data	Source
2015	2,036	FARS-CRIS
2016	2,301	ARF-CRIS
2017	2,148	CRIS
2018	2,309	Target
2019	2,394	Target
2019 Target expressed as 5-year average		2,237.6

As noted in the table above, the calendar year target for 2019 would be 2,394 non-motorized fatalities and serious injuries.

2021 Target: To decrease the expected rise of non-motorized fatalities and serious injuries from the projected 2,413 serious injuries in 2019 to not more than 2,560 non-motorized fatalities and serious injuries in 2021

Transit Asset Management (TAM):

On September 21, 2018 the Transportation Policy Board approved two new MPO Planning Memorandums of Understanding (MOU), one for Texas and one for New Mexico. The MOU's outline the roles and responsibilities of the states, the MPO, and the mass transit provider, Sun Metro, in carrying out the metropolitan transportation planning process and associated performance measures. Based on the federal performance measure final rule on Transit Asset Management (TAM) issued in July 2016, MPOs are required to coordinate with transit providers to set performance targets and integrate individual transit providers' performance targets and TAM plans into planning documents. El Paso MPO reached out to the transit providers in the region to include Sun Metro the mass transit provider for the region and requested targets. The El Paso MPO Transportation Project Advisory Committee (TPAC) reviewed Sun Metro targets, the state of Texas, and the state of New Mexico targets and recommended that the El Paso MPO Transportation Policy Board (TPB) adopt the state of Texas' targets, as the targets for the El Paso MPO. Sun Metro may have agency-level targets that differ from the El Paso MPO adopted targets. These agency-level targets may better meet their needs in planning for state of good repair for Sun Metro. EPMPO will continue to coordinate with Sun Metro to report, track, and adjust the targets over time to meet the El Paso MPO targets.



El Paso MPO TAM 4 year targets

Performance Measure	Baseline	2020 Target	2022 Target
Transit Asset Management			
% revenue vehicles at or exceeding useful life benchmark			<15%
% service vehicles (non-revenue) at or exceeding useful life benchmark			<15%
% facilities rated below 3 on condition scale (TERM)			<15%
% track segments with performance restrictions			N/A

As part of the FAST Act, performance measures were incorporated for transit agencies, primarily through the Transit Asset Management (TAM) assessment and planning requirements. Sun Metro’s TAM plan was developed to meet that requirement. Sun Metro continuously seeks grants through the regional MPO in order to supplement the competitive and formula funding grants available from the FTA. Primarily Sun Metro applies for FHWA Congestion Mitigation and Air Quality (CMAQ) and Surface Transportation Program (STP) funding through the MPO. Funding from these grants are crucial to the agency’s State of Good Repair (SGR) program and the resulting Transit Asset Management Plan (TAM). CMAQ funds provide for new and replacement bus funding, to include vehicles needed for new and extended services. Funding also allows for new or enhancements of terminals and stops to include accessibility and passenger amenities if associated with new or extended services. STP provides similar funding but without the new or extended service requirements. This grant funding not only permits Sun Metro to provide efficient and dependable service but supplements funding from other sources necessary to maintain SGR standards. In FY2019 CMAQ, the federal funding portion obtained through the regional MPO, will total approximately \$5.5M for operating assistance (Dyer and Alameda BRT’s and Streetcar services) plus replacement funding for three buses. As of October 2018 Sun Metro had been awarded approximately \$7.1M of funds for new revenue vehicles that were unspent or pending, including grants obtained through the CMAQ program and other grant programs.