2045
Metropolitan
Transportation
Plan

Technical Report #3
Transportation Performance
Management Report

Gulf Regional Planning Commission Metropolitan Planning Organization

December 2020



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## 1.0 Performance Management

The 2045 Metropolitan Transportation Plan (MTP) follows the principles of performance-based planning and programming and related federal regulations laid out in MAP-21 and the FAST Act. These performance-based regulations require all Metropolitan Planning Organizations (MPOs) to track specific transportation performance measures related to national goals and to set targets for these measures.

The scorecard on the following pages displays the MPO's baseline performance, with comparisons to the state's baseline performance and targets. The Gulf Regional Planning Commission (GRPC), the MPO for the Gulf Coast Metropolitan Planning Area (MPA), has chosen to support the state targets set by the Mississippi Department of Transportation (MDOT).

This report also discusses future actions that the MPO can take to improve regional performance and further support state targets.

This report only addresses specific performance measures required by federal transportation performance management regulations. A more complete assessment of current transportation conditions can be found in *Technical Report 2: Existing Conditions*.

# **Gulf Regional Planning Commission MPO**

**Transportation Performance Management Scorecard** 

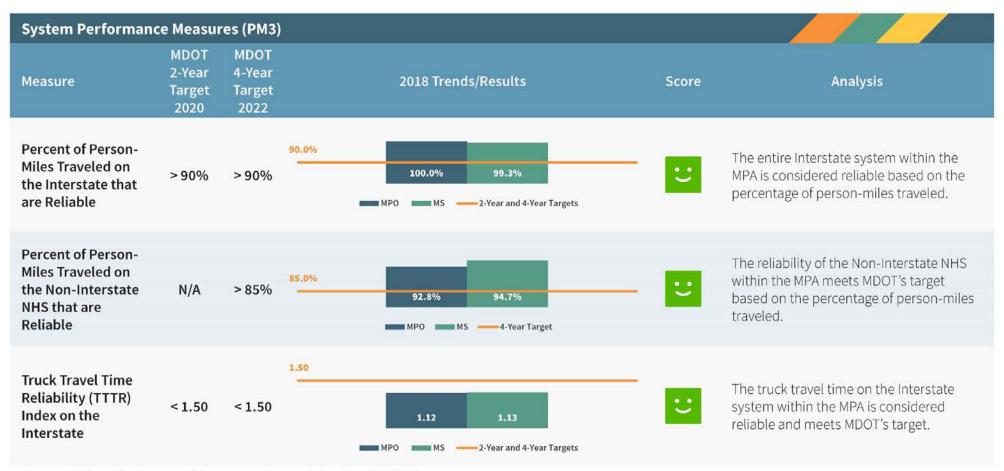




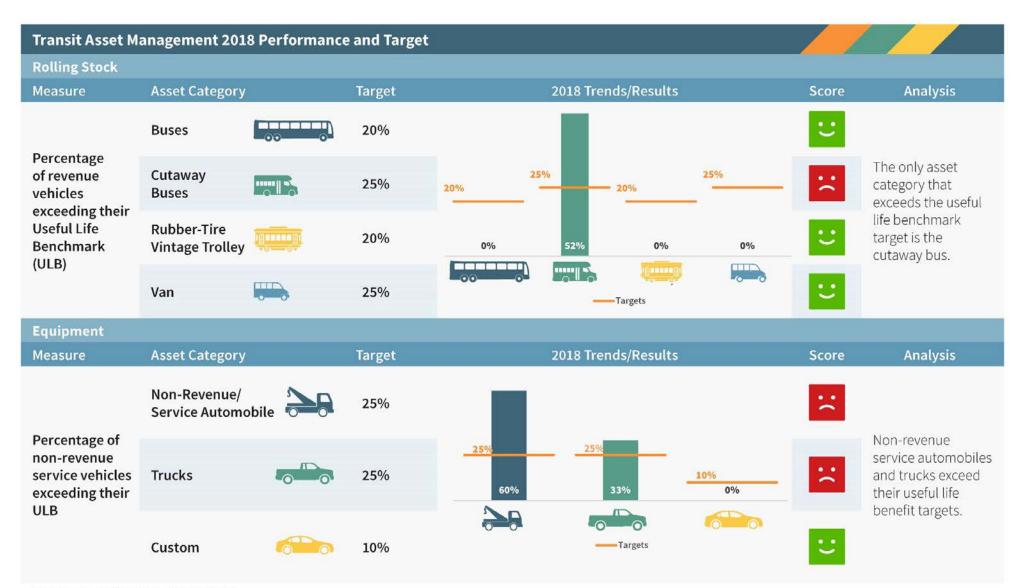
Source: Fatality Analysis Reporting System (FARS); Safety Analysis Management System (SAMS); Mississippi Department of Transportation (MDOT)



Source: MDOT; National Bridge Inventory (NBI)



Source: National Performance Management Research Data Set (NPMRDS)



Source: Coast Transit Authority (CTA)



Not Applicable in the Gulf Coast Metropolitan Planning Area

Source: Coast Transit Authority (CTA)

Transit Safety											
Measure	Mode	Target	5-Year MPO Average			2014-20	l8 Trends/	Results		Score	Analysis
Number of Fatalities by mode	Fixed Route Bus	TBD	0.0	100	<b>0.0</b> 2014	0.0 2015	0.0 2016 ——5-Year N	0.0 2017 MPO Average	<b>0.0</b> 2018	TBD	Safety plans and targets are still under development by transit providers and MPOs.
	Non-Fixed Route Bus	TBD	0.0	IDD	<b>0.0</b> 2014	0.0	0.0 2016 ——5-Year M	<b>0.0</b> 2017	0.0	- TBD	
Rate of Fatalities per 100,000 Fotal Vehicle Revenue Miles by mode	Fixed Route Bus	TBD	0.0	-	<b>0.0</b> 2014	0.0 2015 ——Target	0.0 2016 ——5-Year M	0.0 2017 MPO Average	<b>0.0</b> 2018	- TBD	
	Non-Fixed Route Bus	TBD	0.0	100	0.0	0.0 2015 ——Target	0.0 2016 ——5-Year M	<b>0.0</b> 2017 MPO Average	0.0 2018	- TBD	
Number of Injuries by mode	Fixed Route Bus	TBD	6.0	TDD	<b>12.0</b> 2014	4.0 2015 ——Target	2.0 2016 ——5-Year M	10.0 2017 MPO Average	<b>2.0</b> 2018	- TBD	
	Non-Fixed Route Bus	TBD	0.2	TBE	2014	0.0 2015 — Targe	0.0 2016	0.0 2017 MPO Average	1.0 2018	TBD	



#### **Transit Safety** 5-Year MPO Measure Mode Target 2014-2018 Trends/Results Score **Analysis** Average Fixed TBD 4,081 3,823 4,169 5,907 6,568 **TBD** TBD 4,910 **Route Bus Mean Distance** 2014 2015 2016 2017 2018 Between Major Safety plans and targets are still under development by Mechanical transit providers and MPOs. Failures by mode Non-Fixed 44,832 43,400 49,085 112,196 89,038 **TBD** 67,710 **TBD Route Bus** TBD 2014 2015 2016 2017 2018

Source: National Transit Database

### 2.0 Future MPO Actions

#### 2.1 Safety Performance

The MPO meets all of the established state safety performance targets. To continue supporting the state targets and help improve statewide performance, the MPO must reduce fatalities and serious injuries on its roadways. Efforts the MPO may undertake to reduce these crashes and reduce fatality and serious injury rates include:

- Keep the roadways and bridges maintained and as congestion-free as possible.
- Work with state and local officials, as well as other safety stakeholders, to reduce the fatalities and serious injuries on the roadways.
- Coordinate with MDOT to develop the state's Highway Safety Improvement Program (HSIP).
- Ensure that transportation projects and safety improvements are coordinated with the state's Strategic Highway Safety Plan (SHSP).
- Identify safety programs that may be implemented.
- Consider how projects placed in the Transportation Improvement Program will impact safety.

#### 2.2 Bridge/Pavement Performance

The MPO meets the state targets for pavement condition on the reported Interstate and non-Interstate National Highway System (NHS) segments. To continue supporting the state target and improve its performance on the roadways, the MPO should:

- Prioritize timely repairs and resurfacing of pavement on routes with deteriorating pavement conditions when they arise.
- Work with state and local stakeholders to identify and repair pavement cracking, rutting, potholes, etc.
- Reduce or eliminate heavy vehicle traffic on the affected roadways by establishing designated truck routes on roadways with better pavement conditions.
- Use the local Intelligent Transportation Systems (ITS) infrastructure to monitor roadway conditions and redirect drivers to less congested routes, reducing vehicle loads and deterioration of pavement conditions.
- Employ Travel Demand Management (TDM) strategies.

The MPO meets the state target for bridges in Poor condition by deck area. However, it fails to meet the state target of percent of bridges in Good condition by deck area. The MPO's performance in this category is considerably lower than the state's baseline performance, which itself is close to falling below the MDOT target. For the MPO to meet the state target and support the state's performance, it will need to place emphasis on repairing or replacing bridges that are not in Good condition. The bridges

#### Future MPO Actions

in Poor condition should be prioritized through the plan's operation and maintenance budget. This will also increase safety and system performance and avoid costlier repairs in the future.

Where possible, the MPO, in coordination with MDOT, should apply for applicable federal grants to aid with obtaining funds for bridge repairs and maintenance. While there is no guarantee of receiving these funds, they would allow the MPO to expedite repairs and allow as many bridges as possible to be repaired to Good condition.

### 2.3 System Performance

Roadway reliability on the Interstates and non-Interstate NHS routes within the MPA meets the state targets. For the MPO to continue supporting these targets, it needs to keep the Interstate system functioning at the level it currently does and somewhat improve the non-Interstate NHS route performance.

The actions the MPO may take to continue supporting the Interstate reliability and increase the non-Interstate NHS reliability are the same:

- Work with law enforcement to remove crashes from travel lanes, reducing congestion.
- Use ITS to advise motorists of roadway conditions and redirect drivers to less congested routes.
- Implement signal coordination projects to reduce congestion.
- Schedule roadway work at off-peak times.
- Employ Travel Demand Management strategies.

The MPA has two Interstate segments for the purposes of the Truck Travel Time Reliability (TTTR) measure. These are:

- I-10, which has an overall TTTR of 1.11;
- I-110, which has an overall TTTR of 1.44.

Both Interstates meet the state target for TTTR. However, actions that the MPO may take to decrease the TTTR or maintain its current status include:

- Implement congestion reduction measures.
- Using ITS to advise truck drivers of roadway conditions and redirect them to less congested routes.
- Provide alternative truck routes.

#### 2.4 Transit Asset Management Performance

The overall age of transit vehicles operated by the Coast Transit Authority (CTA), the public transit provider in the MPO area, exceeds the cutaway buses Useful Life Benchmark (ULB) target established within the MPA. In addition, the non-revenue/service automobile vehicles also exceed their ULB target. To improve its rolling stock and equipment performance targets CTA will need to upgrade its fleet by incorporating newer vehicles and phasing out older vehicles.

#### 2.5 Transit Safety

The Federal Transit Administration (FTA) has added new safety requirements for transit providers in order to satisfy the new Public Transportation Agency Safety Plans (PTASP) rule. The new PTASP rule requires that qualifying transit agencies develop:

- An Agency Safety Plan (ASP), including performance targets
- A Safety Management System (SMS)
- Documentation related to the ASP and SMS as well as the results of the SMS processes and activities

#### The FTA states that:

"The PTASP rule requires transit providers to have their certified agency safety plans in place, which includes the first set of required safety performance targets, and share these targets with the MPO no later than July 20, 2020. The MPOs then have 180 days from receipt of the agency performance targets to prepare their initial public transportation safety performance targets."

#### The FTA also states:

"Each transit provider is required to review its agency safety plan, annually and update the plan, including the safety performance targets, as necessary.

The MPO is not required to set new transit safety targets each year, but can choose to revisit the MPO's safety targets based on the schedule for preparation of its system performance report that is part of the Metropolitan Transportation Plan (MTP). The first MPO MTP update or amendment to be approved on or after July 20, 2021, must include the adopted transit safety targets for the region."

The 2045 Metropolitan Transportation Plan is not required to contain established performance measure targets, but the performance metrics that will be tracked in the future are shown in the scorecards above so that CTA and the MPO may plan accordingly.