

**AGENDA ITEM #11: MAP-21/FAST ACT 2020 SAFETY AND TRANSIT PERFORMANCE MEASURES AND TARGETS**  
*Keith Nichols, HRTPO*

The MAP-21 federal surface transportation legislation package established that States and Metropolitan Planning Organizations are required to prepare and use a set of federally-established performance measures and set targets. This requirement was carried forward in the current FAST Act. In 2018 the HRTPO established initial targets in the areas of roadway safety, transit asset management, pavement condition, bridge condition, roadway performance, and freight. MPOs must approve Calendar Year 2020 regional performance targets in two of these areas – roadway safety and transit asset management.

**Roadway Safety**

There are five safety measures for which MPOs are required to establish targets and monitor progress:

- Fatalities
- Fatality Rate
- Serious Injuries
- Serious Injury Rate
- Bike/Pedestrian Fatalities & Serious Injuries (combined)

A working group was formed from TTAC members to assist with the development of regional targets. The regional performance measures working group convened on December 10, 2019, to discuss the 2020 safety performance measures and targets. The working group came to a consensus that HRTPO should continue to adopt Vision Zero targets for each of these measures, where the number of fatalities, serious injuries, and bike/pedestrian fatalities & serious injuries are reduced by a set amount each year to reach a goal of zero by 2045, the horizon of the upcoming regional Long-Range Transportation Plan.

Using the Vision Zero concept, the draft 2020 regional safety performance targets recommended by the performance measures working group are as follows:

<b>2020 DRAFT HRTPO Safety Performance Targets</b>	
<b>Fatalities</b>	<b>124</b>
<b>Fatality Rate (per 100 Million VMT)</b>	<b>0.84</b>
<b>Serious Injuries</b>	<b>1,448</b>
<b>Serious Injury Rate (per 100 Million VMT)</b>	<b>9.85</b>
<b>Number of Bike/Pedestrian Fatalities and Serious Injuries Combined</b>	<b>163</b>

## Transit Asset Management

Federal legislation requires transit performance measures in the area of state of good repair, also referred to as transit asset management (TAM). There are four TAM asset categories for which MPOs are required to establish targets and monitor progress:

- Rolling Stock - Buses, ferry boats, light rail vehicles, and trolley buses
- Equipment/Service Vehicles - Non-revenue automobiles, trucks, and other vehicles
- Infrastructure – Light rail
- Facilities – Passenger, parking, maintenance, and administrative facilities

For the rolling stock and equipment/service vehicles asset classes, performance measures are based on the percentage of vehicles that have met or exceeded their useful life benchmark. The performance measures for infrastructure are based on track segments with restrictions, and the performance measures for facilities are based on the percentage rated below adequate condition.

Hampton Roads Transit (HRT), as a Tier I transit agency, must develop and carry out their own TAM plans. As Tier II transit agencies, the Williamsburg Area Transit Authority (WATA) and Suffolk Transit are eligible to participate in group TAM plans, and they use statewide targets established by the Virginia Department of Rail and Public Transportation.

HRTPO staff prepared a recommended list of regional transit asset management targets, based on a weighted average of HRT, WATA, and Suffolk Transit targets. These targets are:

Asset Type	Performance Measure	Asset Classes	DRAFT 2020 HRTPO Target
Rolling Stock	% of revenue vehicles within each asset class that have met or exceeded their useful life benchmark	Bus	< 19%
		Cutaway Buses	< 1%
		Ferry Boat	< 33%
		Light Rail Vehicles	0%
		Minibus	< 20%
		Trolley Buses	< 3%
		Van	< 25%
Equipment/Service Vehicles	% of vehicles that have met or exceeded their useful life benchmark	Non-Revenue/Service Vehicles	< 66%
		Trucks & Other Rubber Tire Vehs	< 13%
Infrastructure	% of track segments, signals, and systems with performance restrictions	Light Rail Infrastructure	< 1%
Facilities	% of facilities in each asset class rated under 3.0 on FTA's TERM scale	Passenger/Parking	< 1%
		Maintenance	< 10%
		Administrative	< 10%

The draft regional safety and transit performance targets have been made available for public review and comment from December 23, 2019, through January 7, 2020.

**Mr. Keith Nichols, Principal Transportation Engineer, will brief the TTAC on this item.**

**RECOMMENDED ACTION:**

Recommend HRTPO Board approval of the 2020 regional safety and transit performance targets.