

MAP-21/FAST ACT PERFORMANCE MEASURES AND TARGETS

SAFETY

Presented By:
Keith Nichols, PE
TTAC Meeting
January 3, 2018

- The Moving Ahead for Progress in the 21st Century (MAP-21) surface transportation legislation established a performance- and outcome-based program.
- As part of this program, MAP-21 (and the FAST Act) require that States and Metropolitan Planning Organizations (MPOs) **prepare and use a set of federally-established performance measures.**
- States and MPOs must also **set targets and monitor progress** for each of these performance measures.
- HRTPO staff will work in cooperation with the TTAC to produce these targets.

Area	Measures
Safety	Fatalities
	Fatality Rate
	Serious Injuries
	Serious Injury Rate
	Bike/Pedestrian Fatalities & Serious Injuries
Pavement Condition	Interstate System pavement in good condition
	Interstate System pavement in poor condition
	Non-Interstate System NHS pavement in good condition
	Non-Interstate System NHS pavement in poor condition
Bridge Condition	NHS bridges in good condition
	NHS bridges in poor condition
Roadway Performance	Interstate Travel Time Reliability
	Non-Interstate NHS Travel Time Reliability
Freight	Truck Travel Time Reliability Index
CMAQ	N/A for Attainment areas
Transit	Transit Asset Management

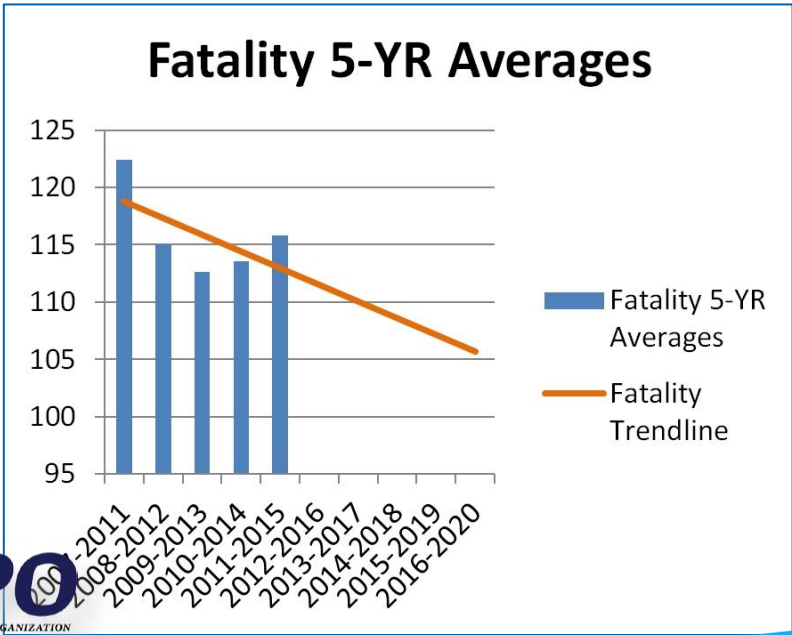
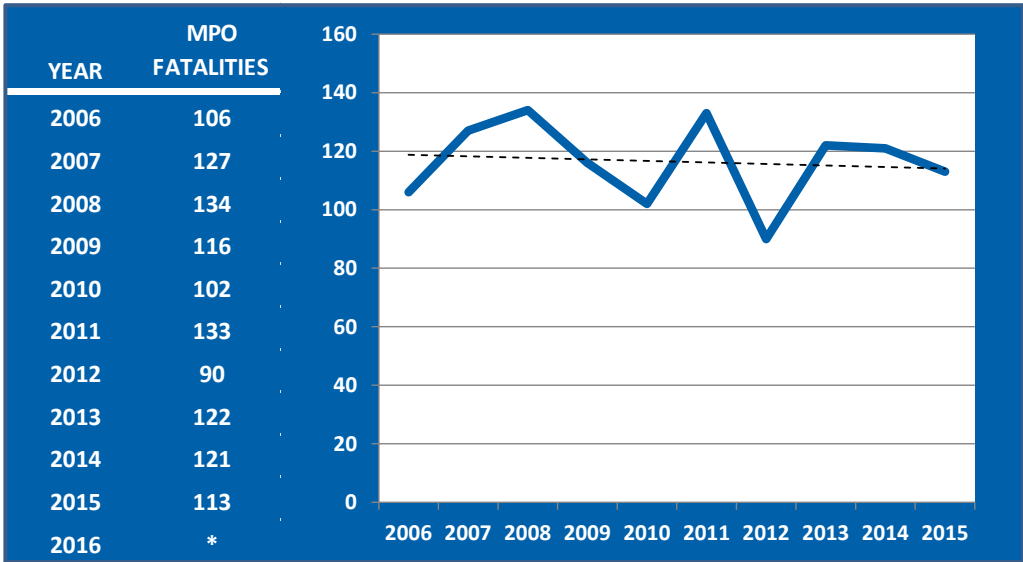
MPO Target Due Dates

- The initial regional safety targets must be established by the MPO by February 27, 2018.
- The remaining initial targets will be due by Mid-November 2018.

- For target setting, the MPO may:
 - Adopt VDOT statewide targets, but report metrics specific to the Metropolitan Planning Area (MPA)
 - Select unique, MPO specific targets, and report metrics specific to the MPA
 - Use a combination of statewide and unique targets
- There are no “penalties” for MPOs for not meeting their performance targets, although it can be addressed during the quadrennial certification review **to ensure adequate performance-based planning.**
- MPOs must include targets and report on progress in planning documents such as the LRTP and the TIP*.

- At the September TTAC meeting, the committee formed a Performance Measure Target Working Group (~ 6-8 members)
 - Localities
 - Transit providers
 - VDOT
 - Subject-matter experts (i.e. Port, Va Highway Safety Office)
- The working group held a conference call on November 2nd to discuss the safety performance measures and targets.

Example - Fatalities



POSSIBLE TARGETS

▶ **DATA TREND**
(10-yr annual treadline) **0.5%**

▶ **DATA TREND**
(5-yr rolling average) **1.3%**

▶ **STATE TARGET**
(SHSP) **2%**

▶ **VISION ZERO**
(0 fatalities by 2045) **3.6%**

Safety Measure	State Target*
Fatalities	-2% annually
Fatality Rate	-3% annually (based on 1.5% annual increase in VMT)
Serious Injuries	-5% annually
Serious Injury Rate	-8% annually
Bike/Pedestrian Fatalities & Serious Injuries	-4% annually

* All based on the Virginia 2017-2021 Strategic Highway Safety Plan.

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Fatality Target

	State Target	Vision Zero Target
Target Based on:	Reducing fatalities by half by 2030, which is consistent with the TZD initiative.	Reducing the # of fatalities by a set amount each year and reaching zero fatalities by 2045.
Target % Change	-2.0% Annually	-3.6% Annually (Short Term)
Target # Fatalities (2018)	109 fatalities	102 fatalities
Reasons to Choose Target:	“Pragmatic”	“Aspirational”
	Fatalities increased in 2017.	“No fatality is acceptable”
	Based on the target in the Virginia Strategic Highway Safety Plan.	USDOT's Strategic Plan includes goal of “...working toward no fatalities across all modes of travel”.
	Fewer reporting requirements when using state targets.	Additional reporting requirements.

Recommended Actions

- 1) Determine whether to use **Statewide** or **Vision Zero** targets for Fatalities.
- 2) Recommend HRTPO Board approval of the following regional safety performance targets:

Future Target Annual Reduction Values	
Fatality Reduction	2.0%/3.6%
Serious Injury Reduction	5.0%
Bike and Ped F & SI Reduction	4.0%
VMT % Increase	1.5%

2018 Safety Performance Targets	
Fatalities	109/102
Fatality Rate (100M VMT)	0.74/0.69
Serious Injuries	1,522
Serious Injury Rate (100M VMT)	10.39
Bike and Ped F & SI People	193

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