



Safety Performance Target Setting

Baltimore Regional Transportation Board Meeting

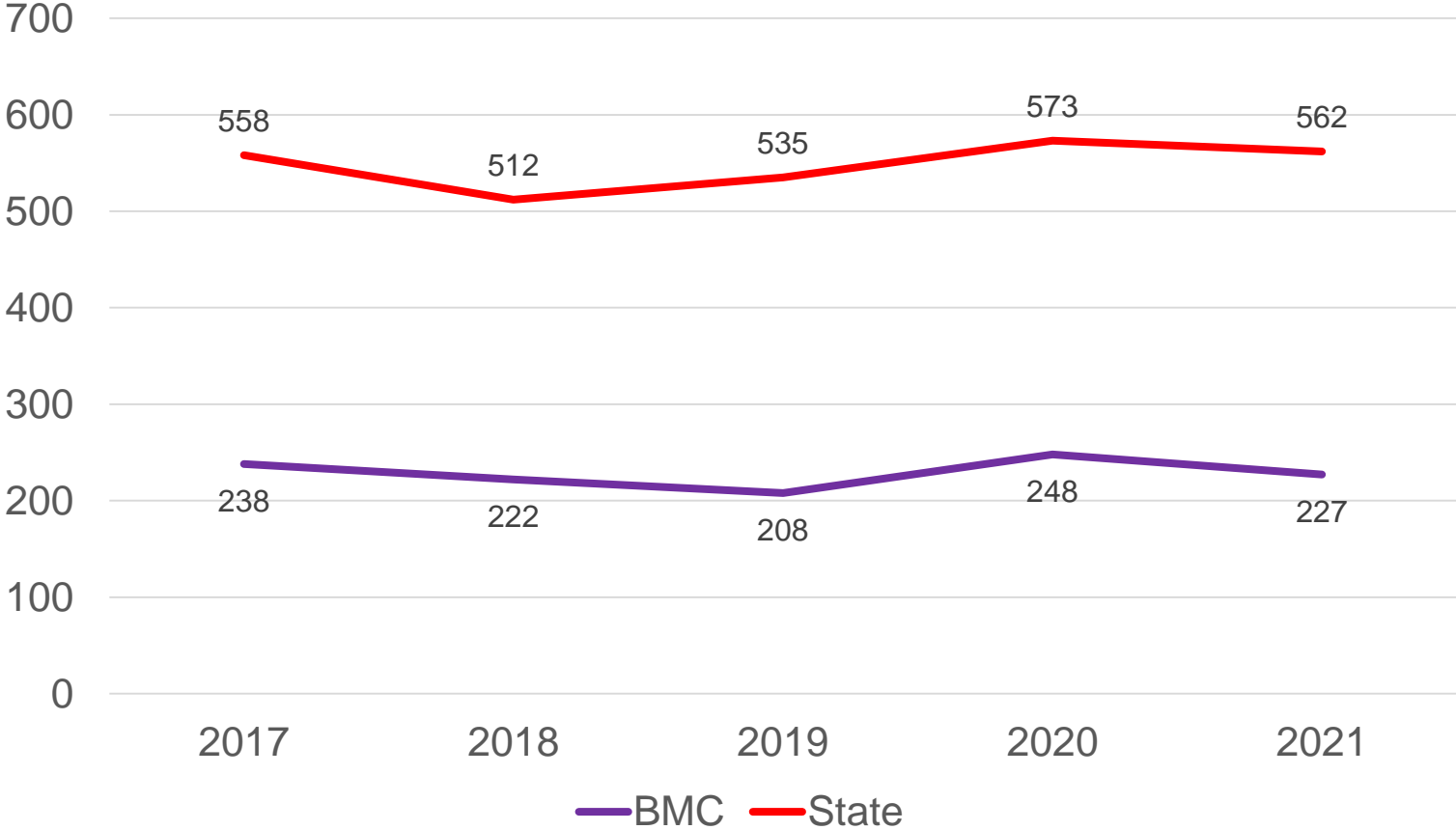
January 24, 2023



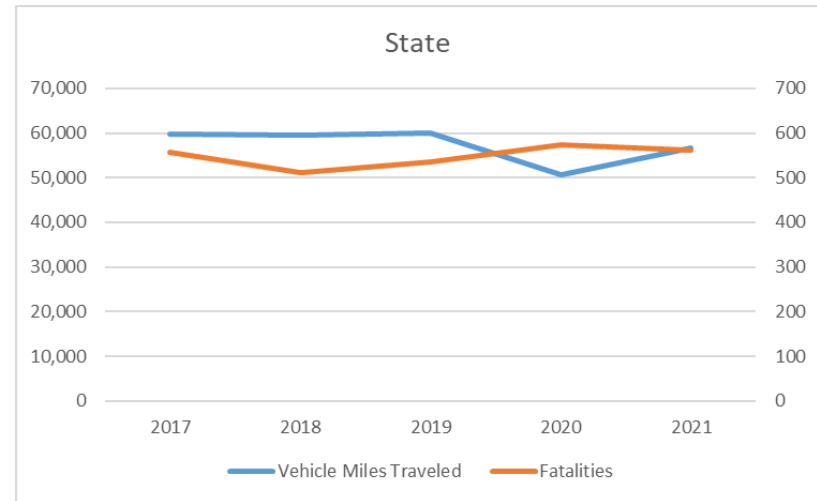
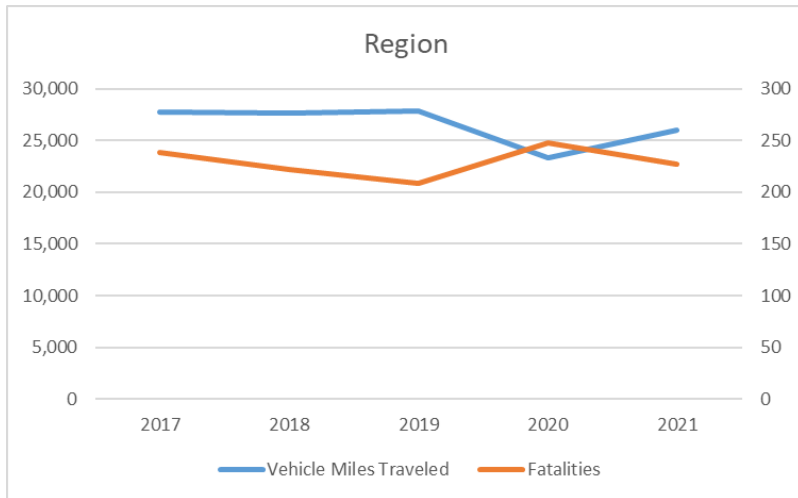
Safety in the Baltimore Region

<u>BMC</u>	<u>2017</u>	<u>2018</u>	<u>2019</u>	<u>2020</u>	<u>2021</u>
Fatalities	238	222	208	248	227
Serious Injuries	1,684	1,575	1,509	1,409	1,638
Total Injuries	26,374	26,022	25,294	19,610	21,816
Vehicle Miles Traveled (millions)	27,731	27,688	27,844	23,318	26,014
<u>State</u>					
Fatalities	558	512	535	573	562
Serious Injuries	3,347	3,233	3,122	2,722	3,055
Total Injuries	51,391	50,011	48,662	36,777	40,775
Vehicle Miles Traveled (millions)	59,892	59,629	60,136	50,592	56,616

Fatalities



Vehicle Miles Traveled



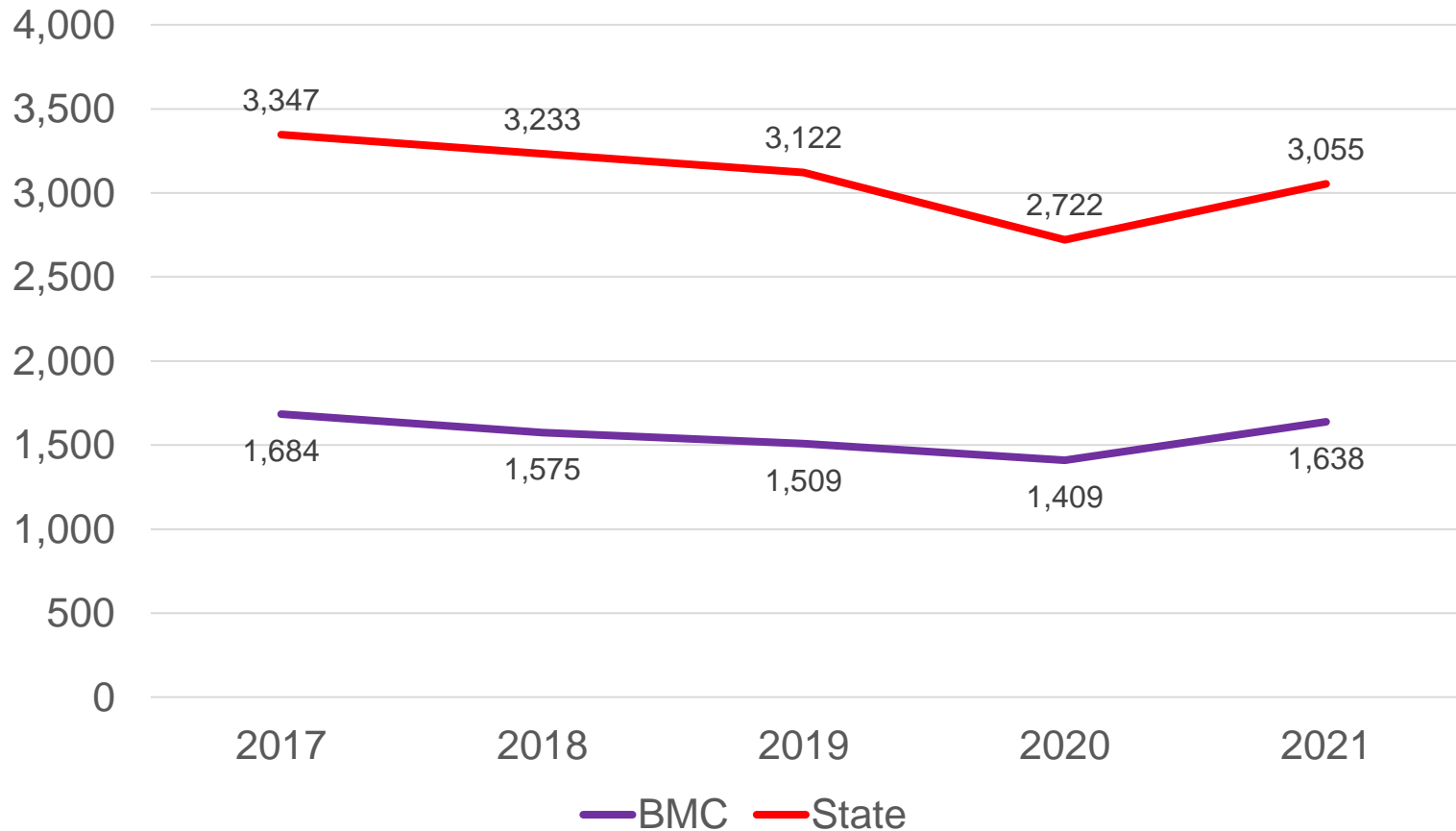
11.6% Vehicle Miles Traveled change 2020-2021

11.9% Vehicle Miles Traveled change 2020-2021

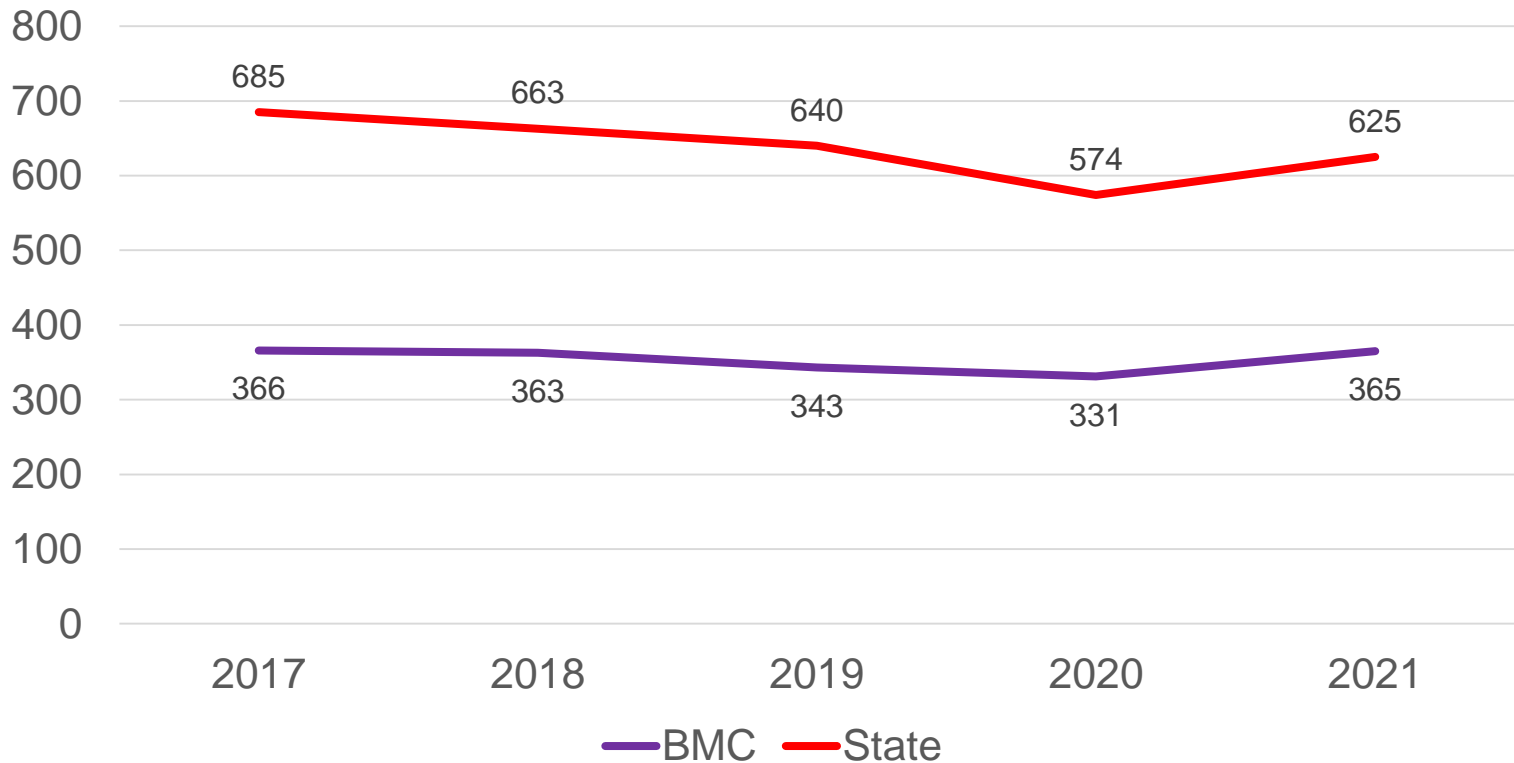
-8.5% Crash fatalities change 2020-2021

-1.9% Crash fatalities change 2020-2021

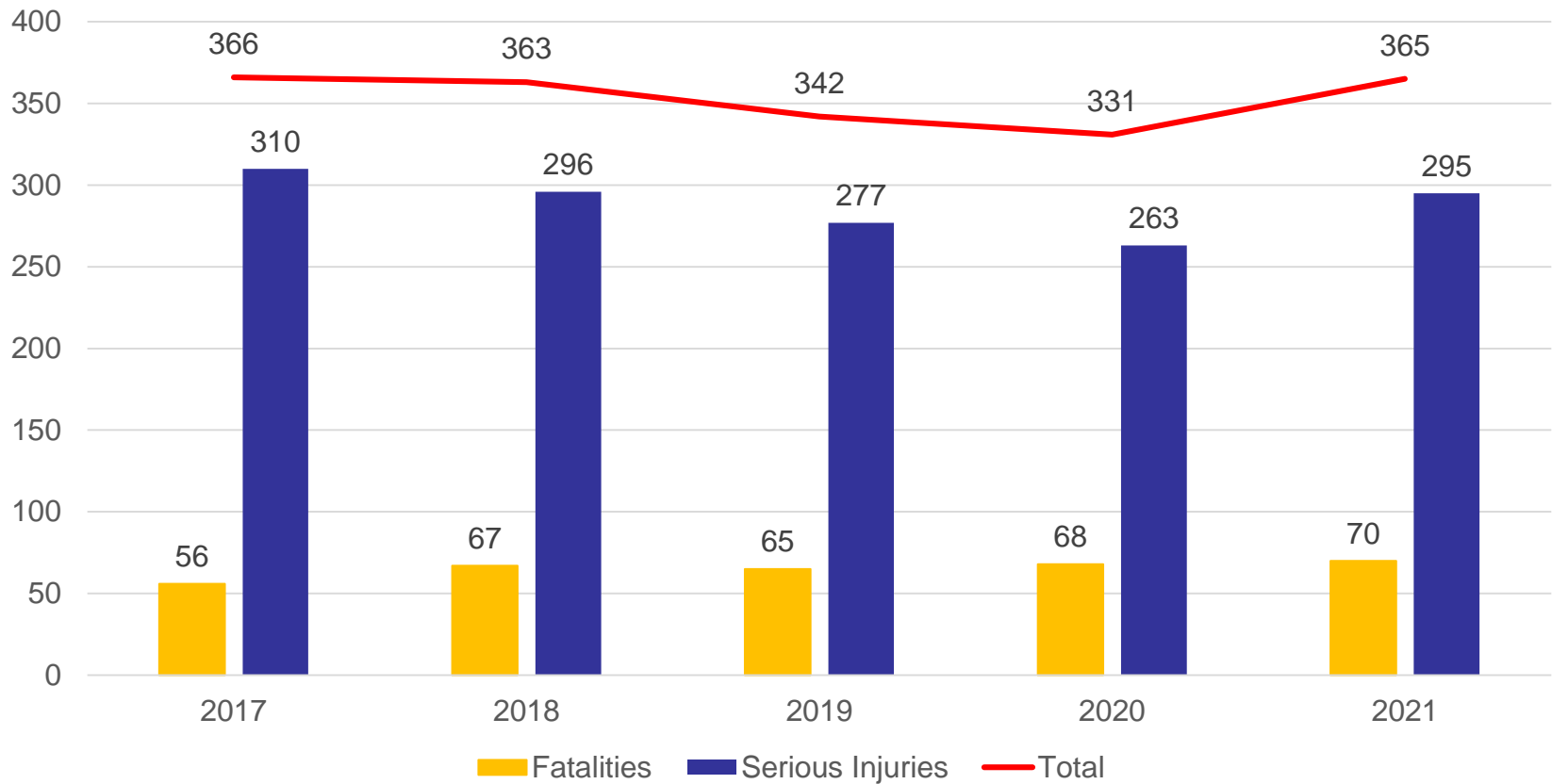
Serious Injuries



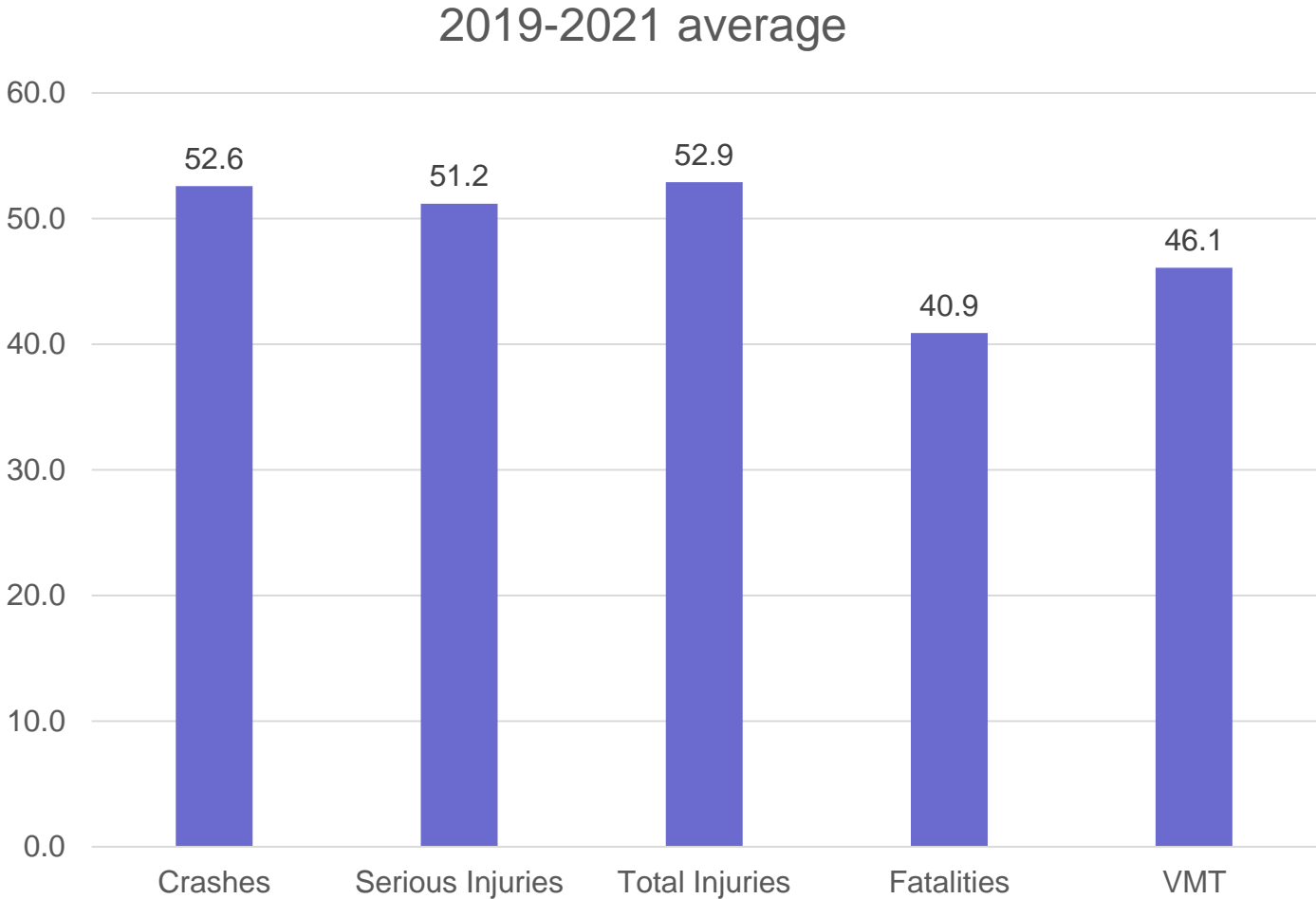
Non-motorist Fatalities and Serious Injuries



Non-motorized Serious Injuries and Fatalities (BRTB region)



BRTB Percent of State



Safety Performance Targets

- Federal regulations state that MPOs must set safety performance targets 180 days after the State HSIP Report is submitted.
- Initial BRTB safety targets were set in January 2018 and updated each January since then.

BRTB Target-Setting Process



- **Follow new Maryland methodology**
 - Exponential forecast from 2005-2009 average
 - Annual 2% reduction in cases of increasing trends
 - Single year target is midpoint of five-year average (e.g. 2020 target = 2018-2022 average)
- **Set five targets specific to the BRTB region**
- **Updated targets to be approved no later than February 28, 2023**
 - Incorporate new year of data into five-year rolling averages






Resolution #23-11

Baltimore Region Yearly Highway Safety Targets

Performance Measure	2005-2009 Baseline	2020 Actual	2021 Actual	Change 2020-2021	2019-2023 Target	2030 Goal
Number of Fatalities	244	248	227	↓ 8.5%	212	202
Number of Serious Injuries	2,094	1,409	1,638	↑ 16.2%	1,269	1,060
Fatality Rate per 100 Million VMT	0.94	1.06	0.87	↓ 17.9%	0.79	0.73
Serious Injury Rate per 100 Million VMT	8.06	6.04	6.30	↑ 4.2%	4.66	3.75
*Number of Non-motorized Fatalities & Serious Injuries	290	331	365	↑ 10.3%	338	281

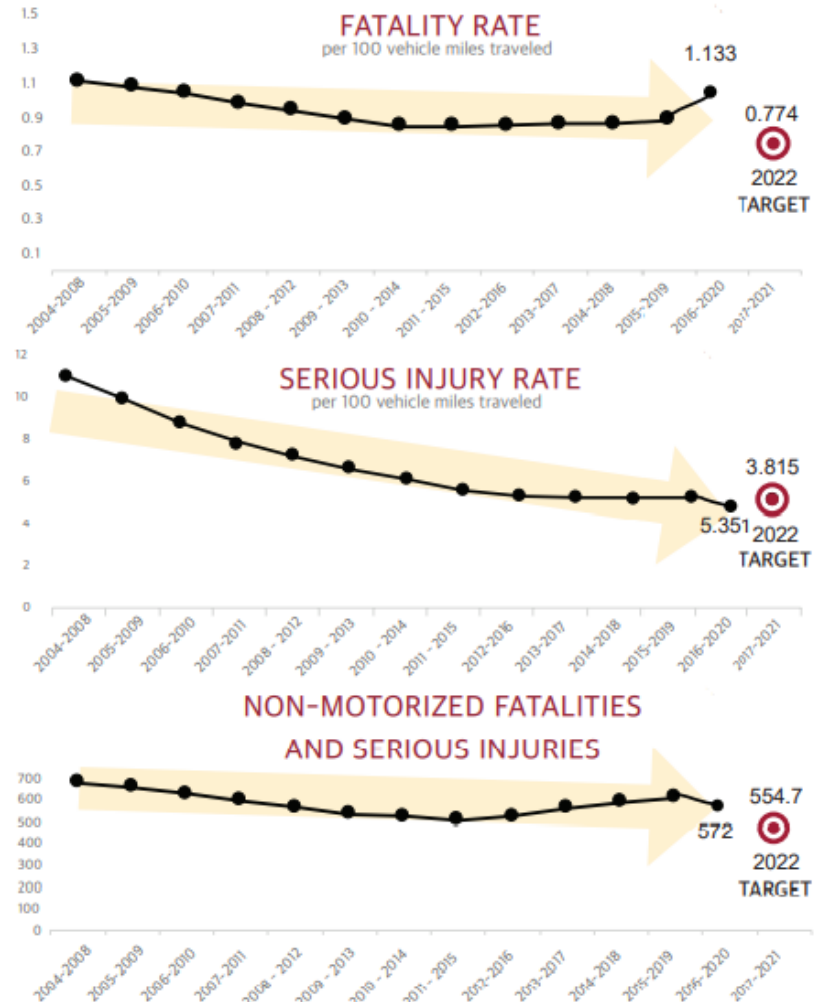
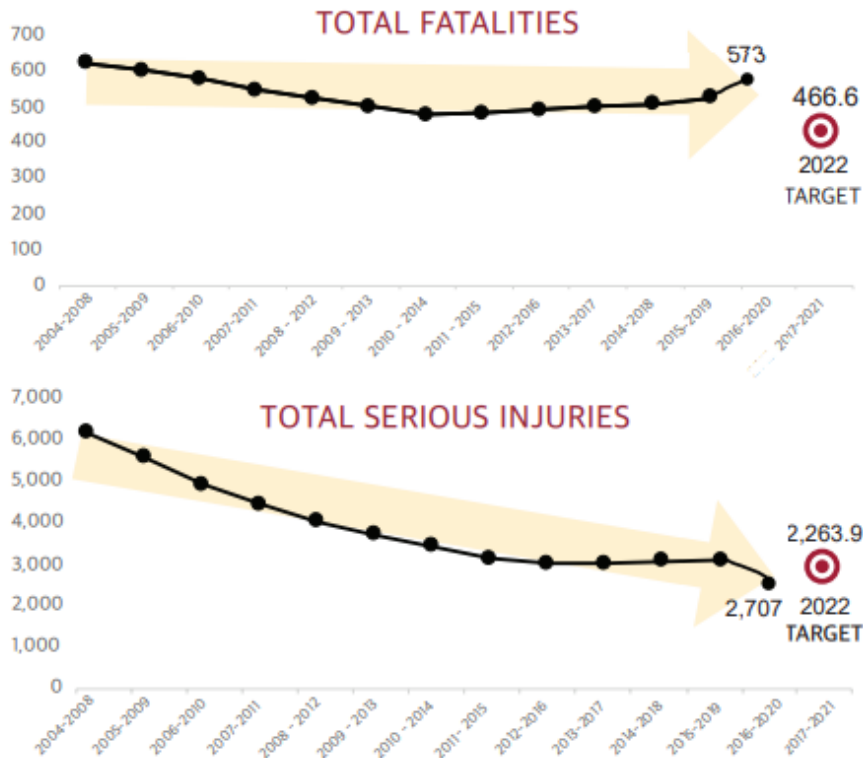
**Increasing trend, so two percent annual reduction applied.*

State Trends

Performance Measure	2020 Actual	2021 Actual	Change 2020-2021
Number of Fatalities	573	562	 1.92%
Number of Serious Injuries	2,722	3,055	 12.23%
Fatality Rate per 100 Million VMT	1.13	0.99	 12.39%
Serious Injury Rate per 100 Million VMT	5.38	4.81	 10.59%
Number of Non-motorized Fatalities & Serious Injuries	574	625	 8.88%

TPM 1: SAFETY

As part of Maryland's "Zero Deaths" approach to addressing highway safety, MDOT applies an exponential trend analysis to the five-year rolling averages to establish safety targets, as documented in the 2021-2025 Maryland Strategic Highway Safety Plan. Targets are updated annually and reported in the Highway Safety Improvement Program.








BRTB Strategies

- What have we done?
 - Incorporated measures and targets into the Transportation Improvement Program (TIP)
 - Enhanced safety in project scoring for the LRTP
 - Complete Streets Policies for MD and several Jurisdictions
 - Congestion Management Process
 - Local Strategic Highway Safety Plans
 - Six in place, one more to begin spring 2023
 - Pedestrian/Bicycle Coordinators in most jurisdictions
 - Continuing Look Alive campaign
 - Safe System Approach project
- New ideas?






Resolution #22-10

Baltimore Region Yearly Highway Safety Targets

Performance Measure	2005-2009 Baseline	2019 Actual	2020 Actual	Change 2019-2020	2018-2022 Target	2040 Goal
Number of Fatalities	244	208	248	 19.2%	208	194
Number of Serious Injuries	2,094	1,509	1,409	 6.6%	1,166	882
Fatality Rate per 100 Million VMT	0.94	0.75	1.06	 42.4%	0.75	0.67
Serious Injury Rate per 100 Million VMT	8.06	5.42	6.04	 11.5%	4.23	3.04
*Number of Non-motorized Fatalities & Serious Injuries	290	342	331	 11.7%	333	272

**Increasing trend, so two percent annual reduction applied.*

State Trends

Performance Measure	2019 Actual	2020 Actual	Change 2019-2020
Number of Fatalities	535	573	 7.10%
Number of Serious Injuries	3,122	2,718	 12.94%
Fatality Rate per 100 Million VMT	0.89	1.13	 26.97%
Serious Injury Rate per 100 Million VMT	5.19	5.37	 3.47%
Number of Non-motorized Fatalities & Serious Injuries	640	574	 10.31%