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# Safety Performance Target Setting

Technical Committee

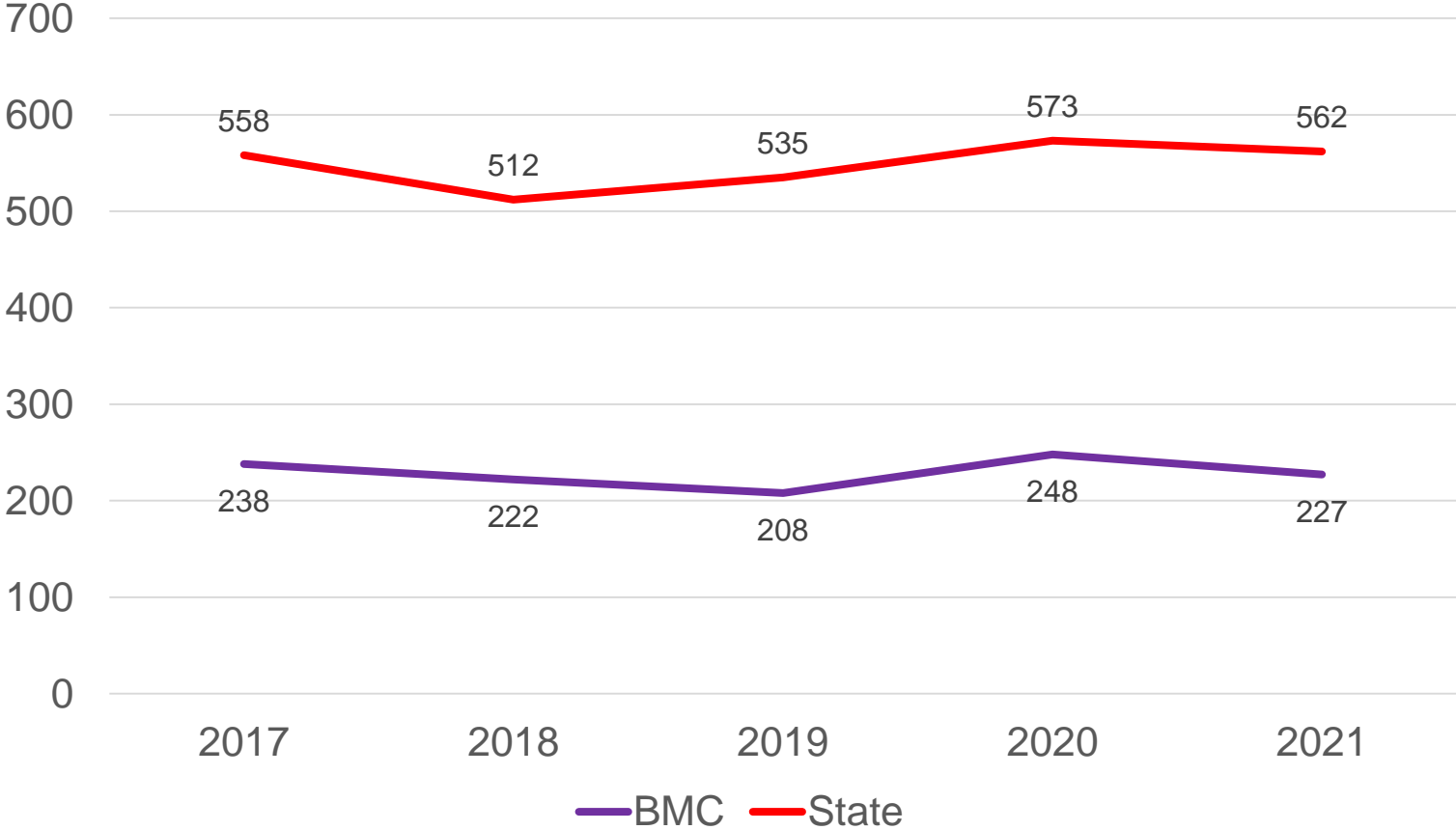
January 3, 2023



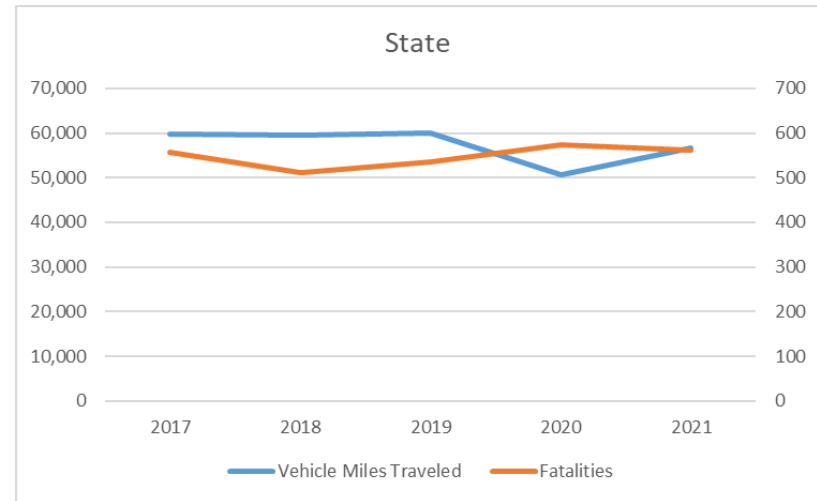
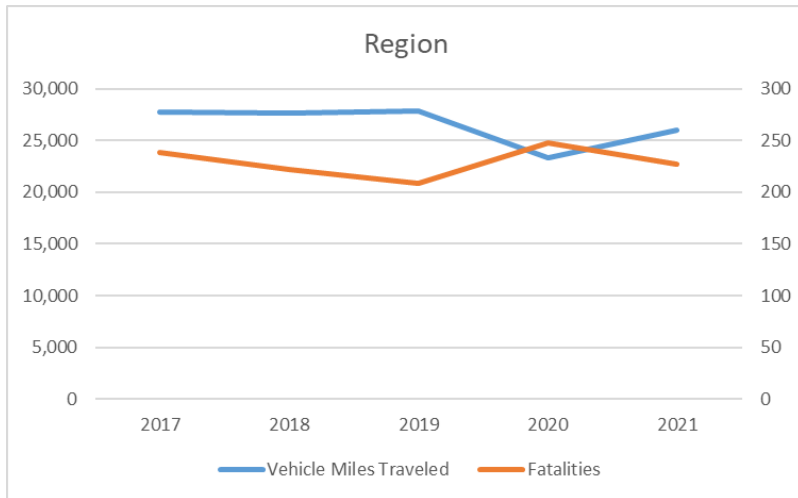
# Safety in the Baltimore Region

<b>BMC</b>	<b><u>2017</u></b>	<b><u>2018</u></b>	<b><u>2019</u></b>	<b><u>2020</u></b>	<b><u>2021</u></b>
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
<b>State</b>					
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



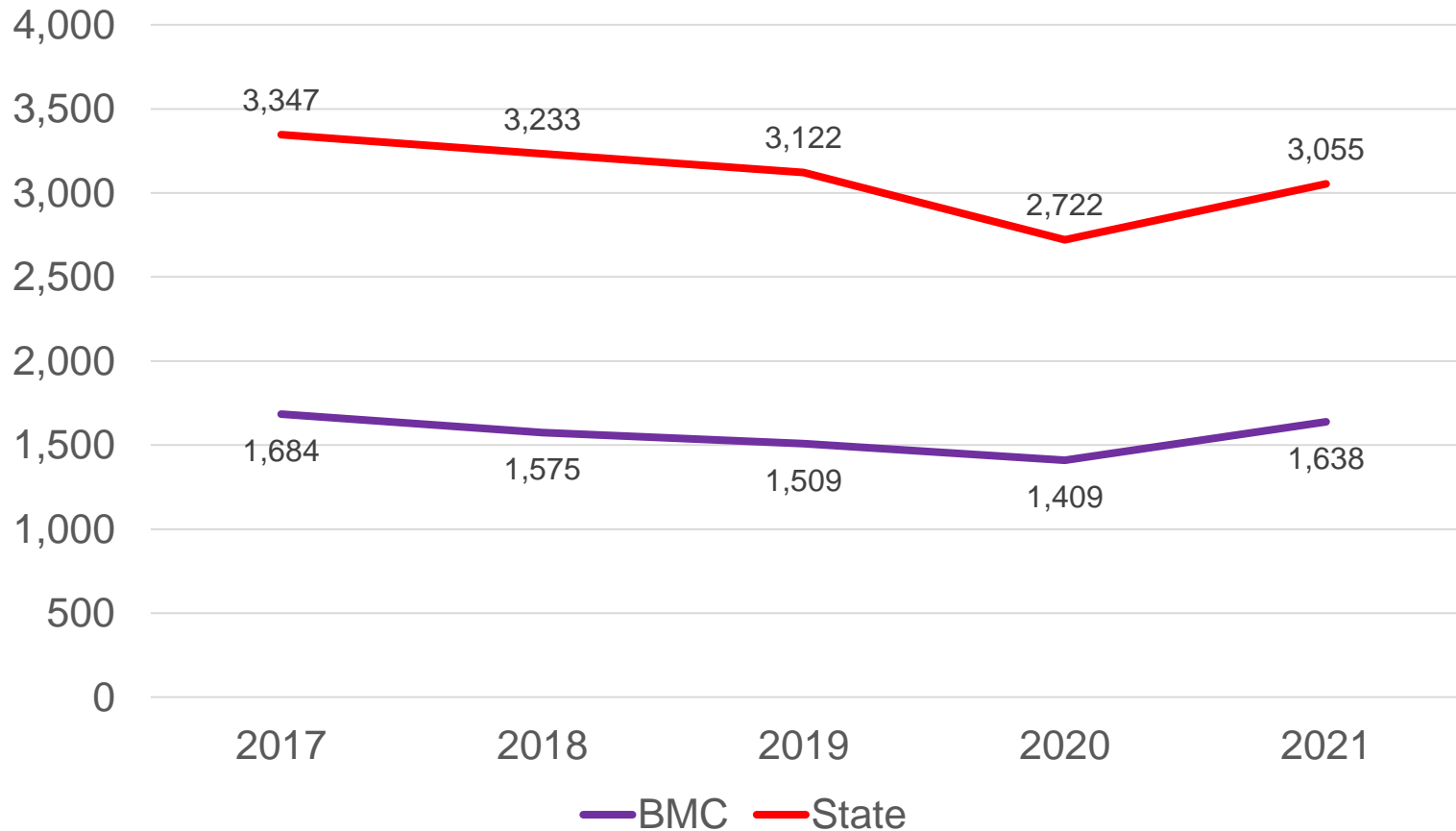
11.6% Vehicle Miles Traveled change 2020-2021

11.9% Vehicle Miles Traveled change 2020-2021

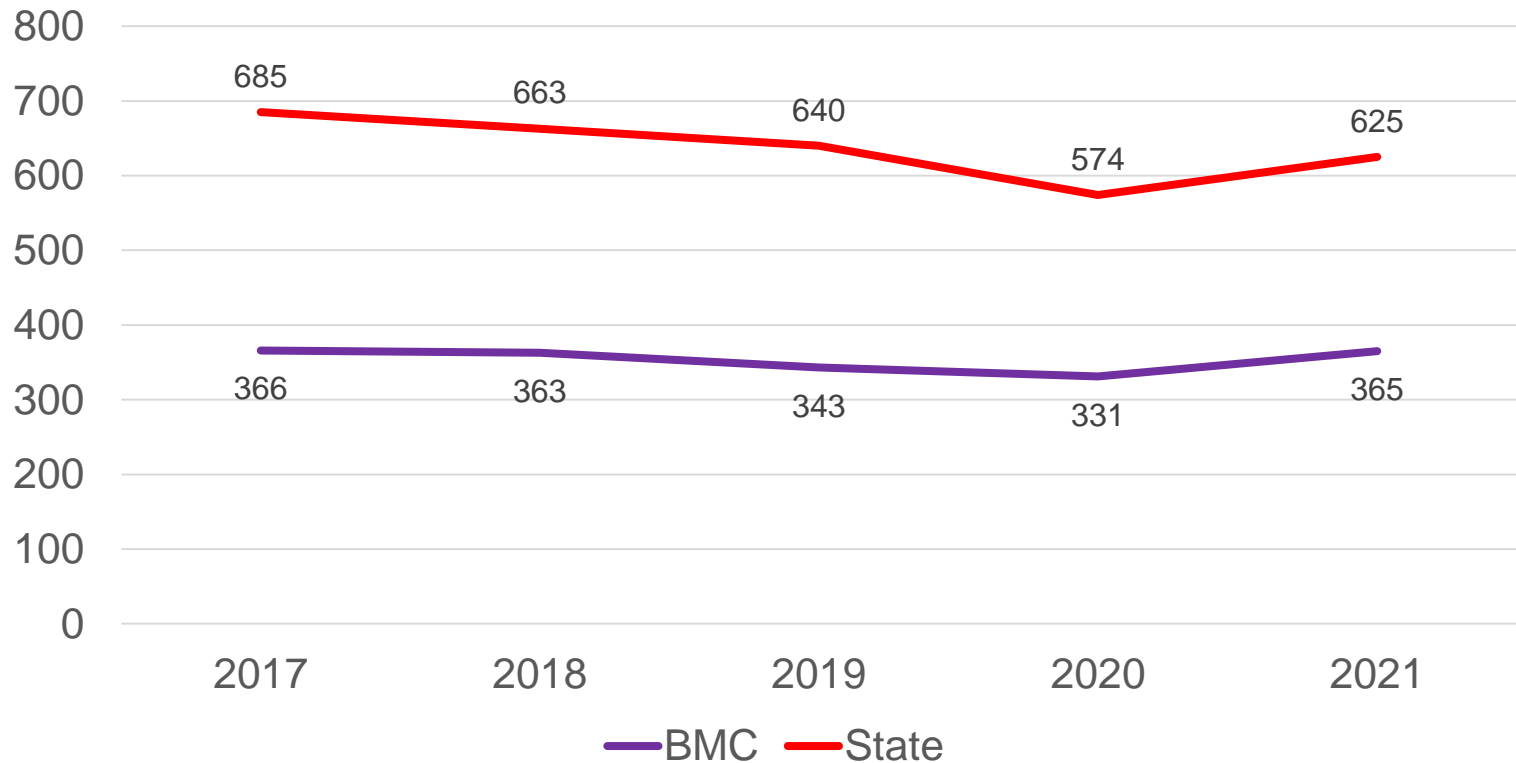
-8.5% Crash fatalities change 2020-2021

-1.9% Crash fatalities change 2020-2021

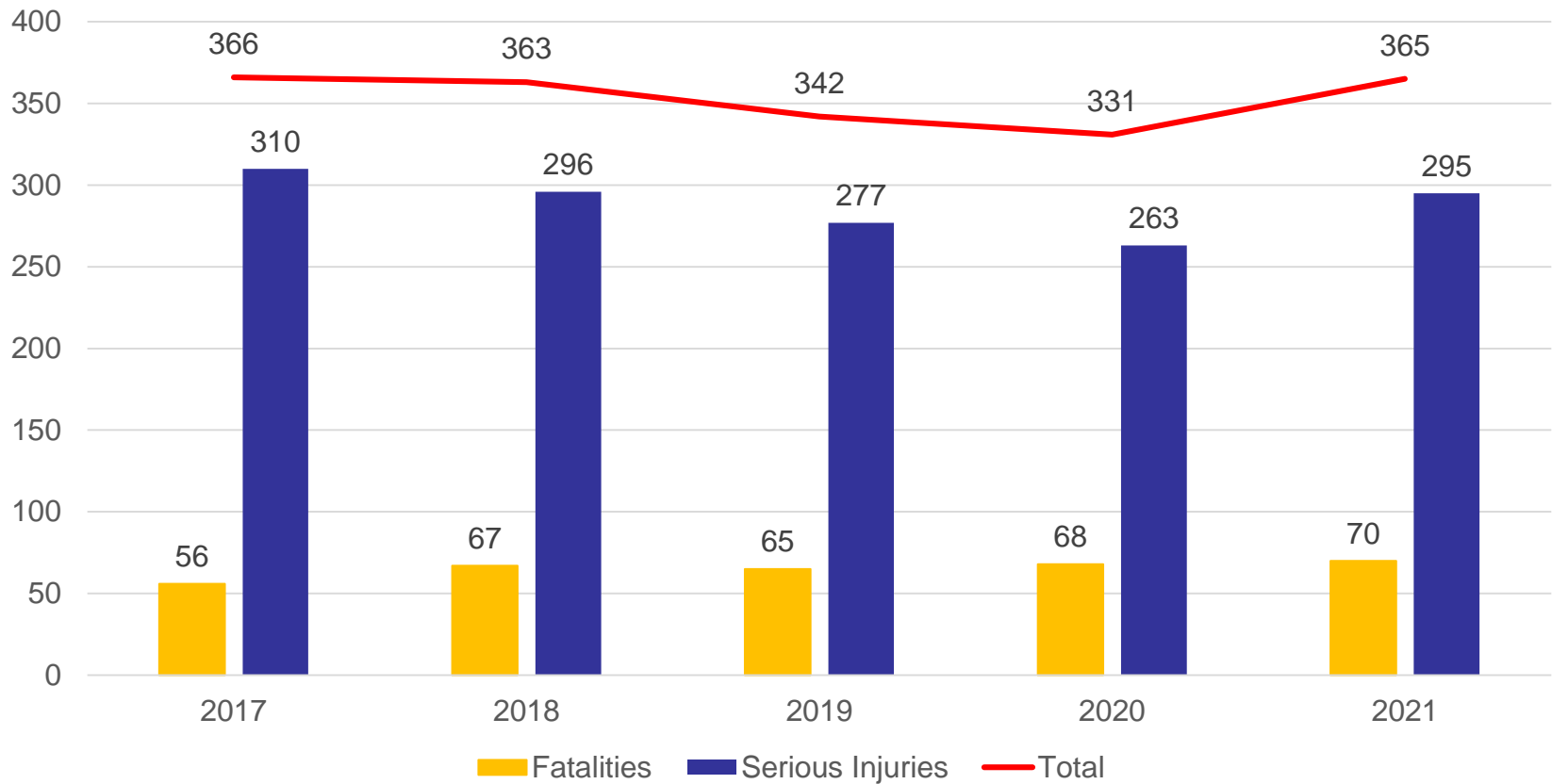
# Serious Injuries



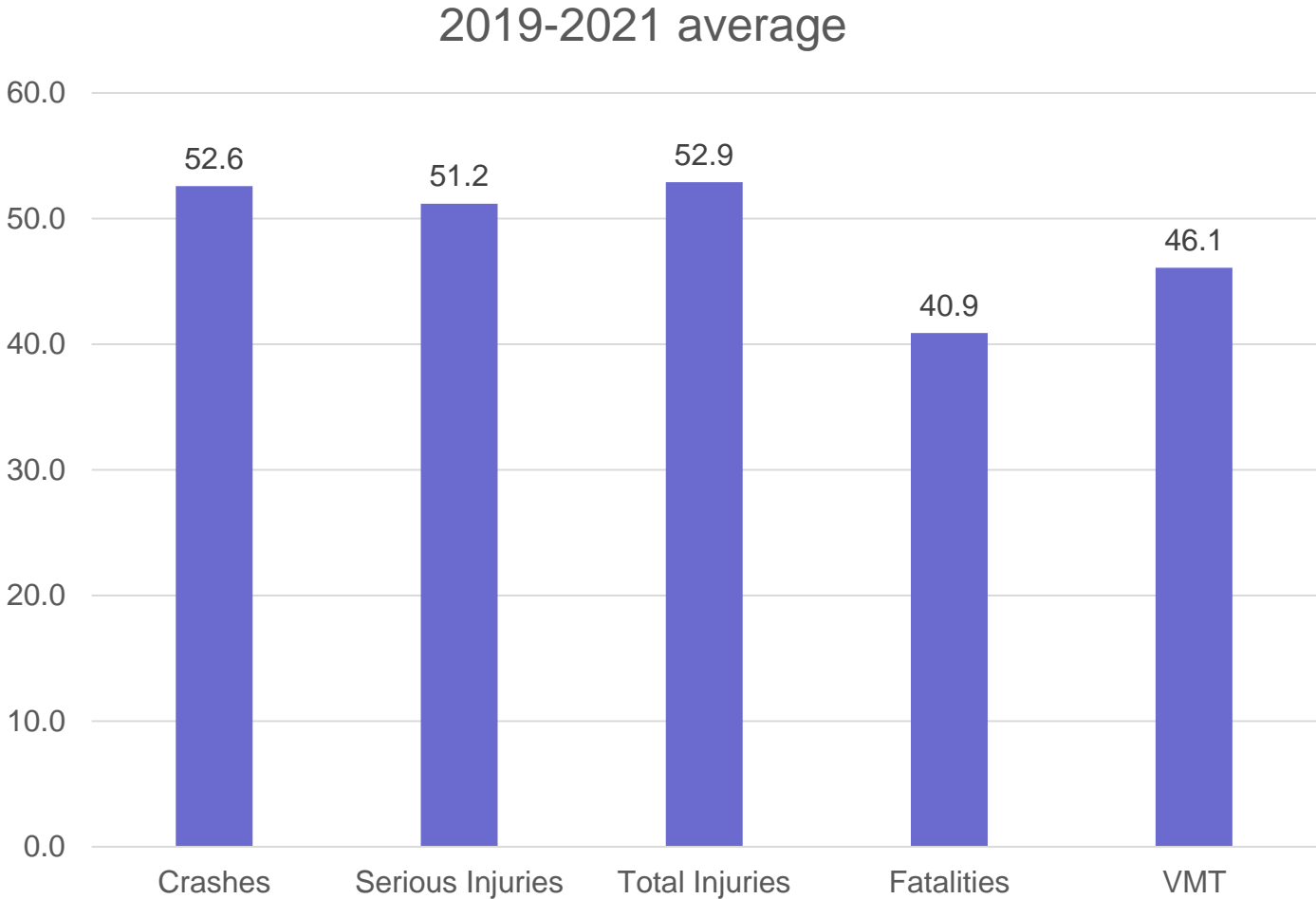
# Non-motorist Fatalities and Serious Injuries



# 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

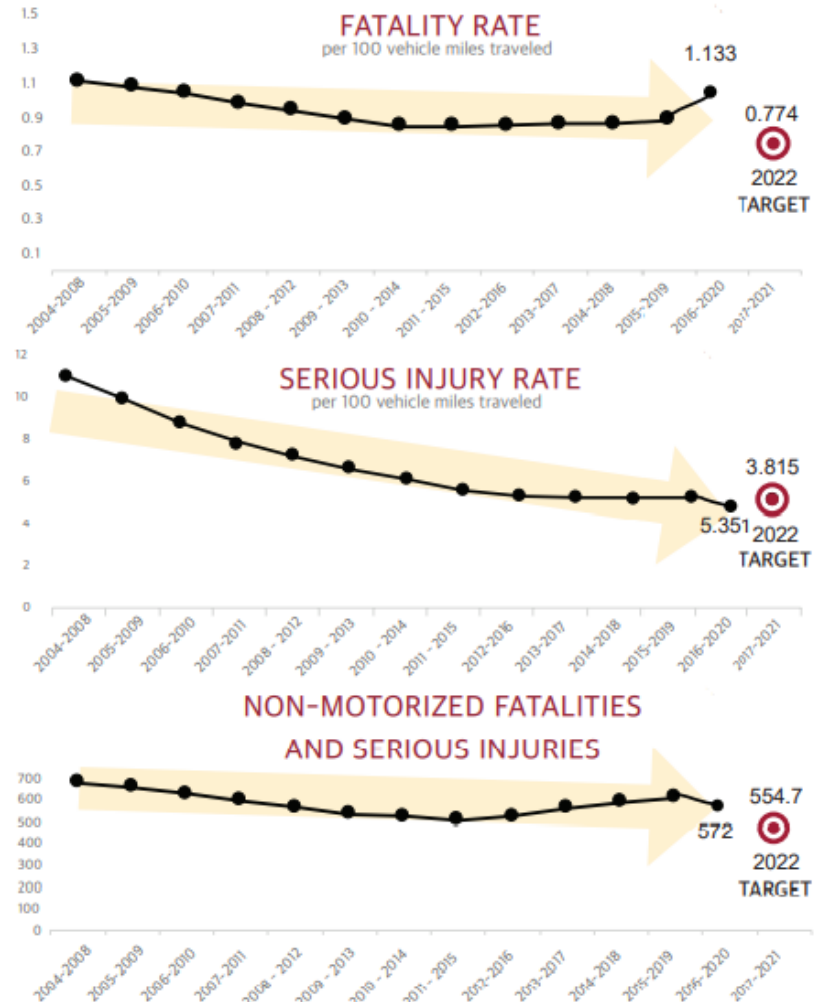
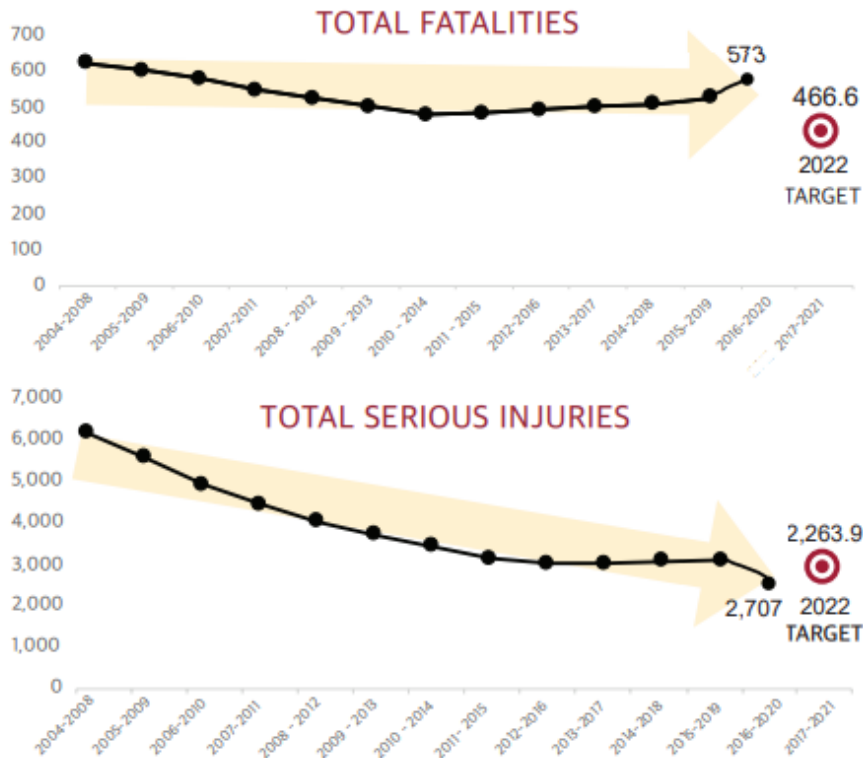
*\*Increasing trend, so two percent annual reduction applied.*

# 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?

# For More Information

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# 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.*