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# Safety Performance Target Setting

*December 3, 2019*



# Safety in the Baltimore Region

	2016	2017	2018	2016-2018 average
<b>BRTB</b>				
Crashes	67,632	61,568	62,202	63,801
Serious Injuries	1,432	1,678	1,566	1,559
All Injuries	25,822	26,358	25,940	26,040
Fatalities	228	238	223	230
<b>State</b>				
Crashes	120,278	115,357	117,831	117,822
Serious Injuries	3,167	3,345	3,224	3,245
All Injuries	25,822	26,358	25,940	26,040
Fatalities	522	558	513	531

2016-2018 Percent Change	BRTB	State
Crashes	-8.0%	-2.0%
Serious Injuries	9.4%	1.8%
All Injuries	0.5%	-1.9%
Fatalities	-2.2%	-1.7%

BRTB % of State	2016	2017	2018	2016-2018 average
Crashes	56.2%	53.4%	52.8%	54.2%
Serious Injuries	45.2%	50.2%	48.6%	48.0%
All Injuries	50.7%	51.3%	51.9%	51.3%
Fatalities	43.7%	42.7%	43.5%	43.3%



# Baltimore Region Summary

<b><u>Total</u></b>	<b>2018</b>	<b>% of Region</b>
Fatal Crashes	211	
Injury Crashes	17,320	
Property Damage Crashes	44,671	
Total Crashes	62,202	
Total of All Fatalities	223	
Total Number Injured	25,940	

<b><u>Speed</u></b>		
Total Crashes	5,080	8.2%
Total of All Fatalities	47	21.1%
Total Number Injured	2,192	8.5%

<b><u>Distracted</u></b>		
Total Crashes	25,731	41.4%
Total of All Fatalities	69	30.9%
Total Number Injured	11,933	46.0%

<b><u>Impaired</u></b>	<b>2018</b>	<b>% of Region</b>
Total Crashes	2,977	4.8%
Total of All Fatalities	66	29.6%
Total Number Injured	1,366	5.3%


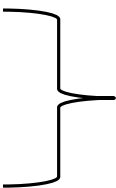
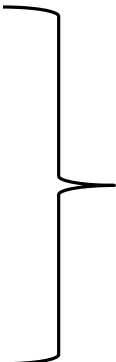
<b><u>Pedestrian</u></b>		
Total Crashes	1,921	3.1%
Total of All Fatalities	67	30.0%
Total Number Injured	1,994	7.7%

# For 2020, BRTB Options

- Coordinate with MDOT (two options):
  1. Adopt state measures and targets OR
  2. Set regional measures and targets
- MDOT's performance measure website: <http://arcg.is/1r04uH>



# FHWA – Performance Areas

- |  |  |                                     |
|--|--|-------------------------------------|
| 1. Serious injuries per vehicle miles traveled (VMT)     |   | <b>System Safety<br/>(PM1)</b>      |
| 2. Fatalities per VMT                                    |  |                                     |
| 3. Number of serious injuries                            |  |                                     |
| 4. Number of fatalities                                  |  |                                     |
| 5. Number of non-motorized fatalities + serious injuries |  |                                     |
| <hr/>  |  |                                     |
| 6. Pavement condition on the Interstate System (2)       |   | <b>System Condition<br/>(PM2)</b>   |
| 7. Pavement condition on the non-Interstate NHS (2)      |  |                                     |
| 8. Bridge condition on the NHS (2)                       |  |                                     |
| <hr/>  |  |                                     |
| 9. Performance of the Interstate System                  |  | <b>System<br/>Performance (PM3)</b> |
| 10. Performance of the non-Interstate NHS                |  |                                     |
| 11. Freight movement on the Interstate System            |  |                                     |
| 12. Traffic congestion                                   |  |                                     |
| 13. On-road mobile source emissions                      |  |                                     |

# Terminology

- **Goal** – A broad aspiration or guiding principle (e.g., “Improve highway safety”)
- **Strategy** – An approach or policy to help implement a goal (e.g., “Eliminate hazardous or substandard conditions in high-crash locations and corridors”)
- **Performance Measure** – A specific metric used to assess progress toward achieving a goal (e.g., “Decrease number of highway fatalities in the region”)
- **Performance Target** – A specific level to be reached within a certain time frame (e.g., “Decrease number of highway fatalities in the region to 166 by 2020”)

# Safety Performance Measures

- State Strategic Highway Safety Plan (SHSP) was written in 2015 and spans 2016-2020. It includes safety performance measures, targets, and goals.
- Those goals are incorporated into the Highway Safety Plan (HSP) and Highway Safety Improvement Program (HSIP).

# Strategic Highway Safety Plan (SHSP)

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graph TD; SHSP[Strategic Highway Safety Plan (SHSP)] --> HSIP[Highway Safety Improvement Program (HSIP)]; SHSP --> HSP[Highway Safety Plan (HSP)];
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## Highway Safety Improvement Program (HSIP)

- Report submitted annually
- Infrastructure improvements
- FHWA approved

- Updated every five years
- Infrastructure and behavioral countermeasures
- SHSP process approved by FHWA
- Requirement of HSIP

## Highway Safety Plan (HSP)

- Plan submitted annually
- Behavioral programs
- NHTSA approved

Source: Federal Safety Performance Management Webinar



# Safety Performance Measures

- Federal regulations state that MPOs must set safety performance targets 180 days after the State HSIP Report is submitted.
- Initial BRTB safety targets set in January 2018 and updated in January 2019.

# BRTB Target-Setting Process



- **Follow Maryland's methodology - Toward Zero Deaths**
  - Reduce by 50% from 2008 → 2030
- **Set the five targets specific to the BRTB region**
- **Updated targets to be approved no later than February 28, 2020**
  - Incorporate new year of data into five-year rolling averages
  - Adjust exponential trend line with same fixed end point

# For Upcoming Resolution

**Baltimore Region Highway Safety Targets**

Performance Measure	2008 Baseline	2017 Actual	2018 Actual	Change 2017-2018	2016-2020 Target	2030 TZD Goal
Number of Fatalities	242	238	223	↓ 6.30%	181	121
Number of Serious Injuries	1,868	1,678	1,566	↓ 6.67%	1,227*	934
Fatality Rate per 100 Million VMT	0.93	0.86	0.81	↓ 6.16%	0.69	0.47
Serious Injury Rate per 100 Million VMT	7.21	6.05	5.66	↓ 6.53%	4.70*	3.60
Number of Non-motorized Fatalities & Serious Injuries	286	366	363	↓ 0.82%	223*	143

\*To align with State calculations, the trend line was adjusted back to the 2004-2008 average (previously the 2008-2012 average). This resulted in slightly higher targets than last year.

Sources: Maryland State Police crash database, MDOT MVA Highway Safety Office Benchmark Reports, MDOT SHA Mileage Reports

# BRTB Strategies

- What have we done?
  - Have incorporated measures and targets into the Transportation Improvement Program (TIP) since May 2019
  - Complete Streets Policies in State and Jurisdictions
  - Congestion Management Process
  - Local Strategic Highway Safety Plans
  - Pedestrian/Bicycle Coordinators in Jurisdictions
  - Continuing Look Alive campaign
- New ideas?

# For More Information

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**Cindy Burch** | Transportation Planner - Safety

410-732-0500 x 1051 | [cburch@baltometro.org](mailto:cburch@baltometro.org) | [www.baltometro.org](http://www.baltometro.org)



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