

PBPP: DRAFT 2018-2022 ROADWAY SAFETY TARGETS

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Presentation Items

- Part I: Review of Safety Trends
- Part II: Progress Towards the 2016-2020 Safety Targets
- Part III: Staff Recommended 2018-2022 Regional Safety Targets
- Part IV: Next Steps



Part I

Review of Safety Trends



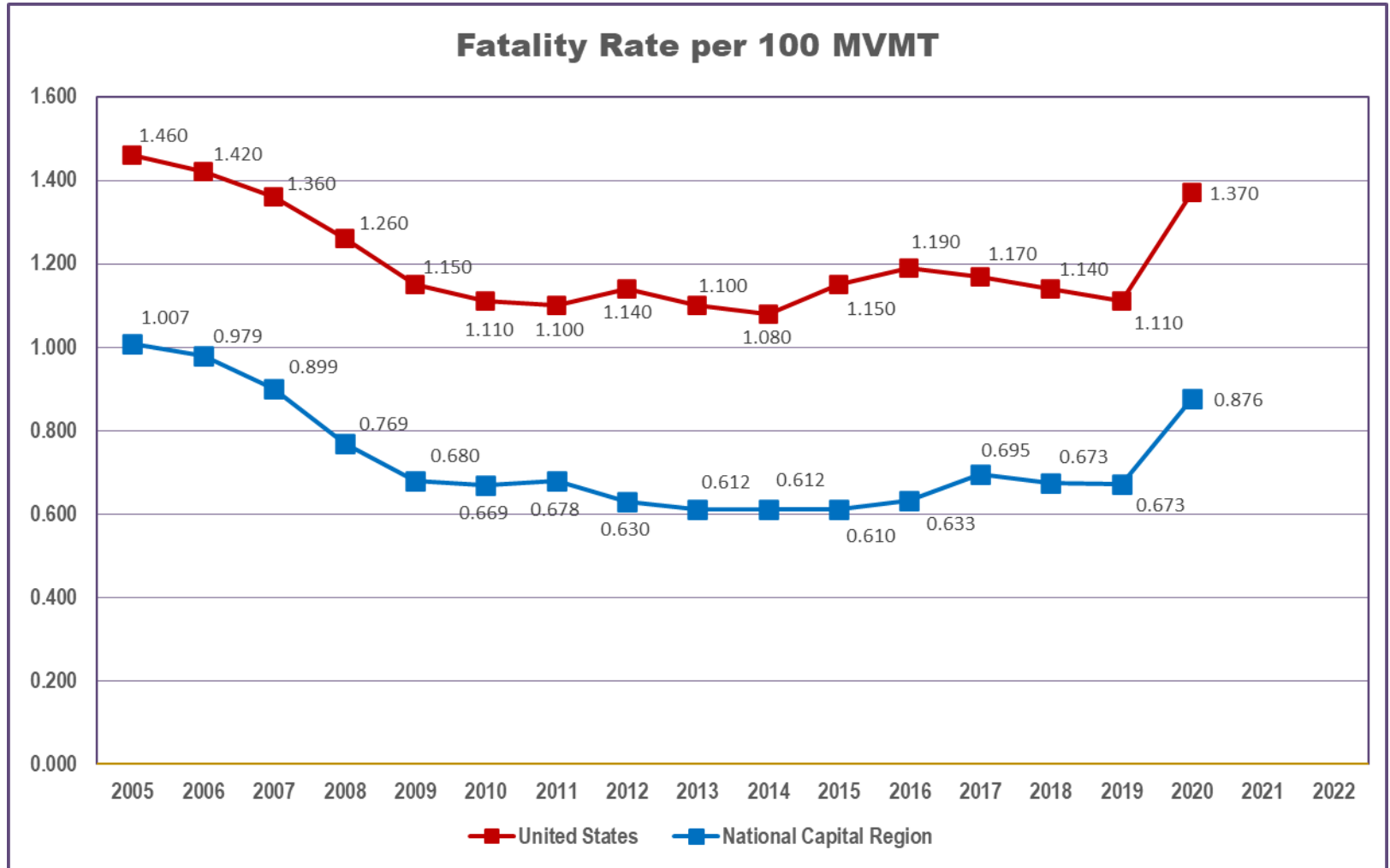
NCR Safety – With Draft 2020 Annual Data

	2016	2017	2018	2019	2020	Change from 2019 to 2020
# of Fatalities	279	313	303	306	321 ¹	↑ 4.9 %
Fatality Rate (per 100 MVMT)	0.633	0.695	0.673	0.673	0.876 ¹	↑ 30.2 %
# of Serious Injuries	2,916	2,592	2,464	2,371	1,842	↓ 22.3 %
Serious Injury Rate (per 100 MVMT)	6.614	5.755	5.473	5.211	5.026	↓ 3.6 %
# Nonmotorist Fatalities & Serious Injuries	553	580	551	595	440	↓ 26.1 %

Note ¹: Figures listed are from state fatality data; official 2020 federal data not yet published



Fatality Rates: USA and National Capital Region



Part II

Progress Towards the 2016-2020 Roadway Safety Targets



Highway Safety Performance Measures

Performance Measure	Description	Data Source
Number of Fatalities (5 year rolling average)	Total number of fatalities during a calendar year	FARS ¹
Rate of Fatalities per 100 million VMT (5 year rolling average)	Ratio of total fatalities to VMT	FARS and HPMS ² (or MPO estimate)
Number of Serious Injuries (5 year rolling average)	Total number of serious injuries during a calendar year	State reported serious injury data
Rate of Serious Injuries per 100 million VMT (5 year rolling average)	Ratio of total serious injuries to VMT	State reported serious injury data and HPMS
Number of Non-Motorized Fatalities and Serious Injuries (5 year rolling average)	Total number of fatalities and serious injuries during a calendar year	FARS and State serious injury data

¹ FARS: Fatality Analysis Reporting System

² HPMS: Highway Performance Monitoring System

2015-2019 Actual vs. Targets - NCR

Performance Measure (5-year rolling average)	2016-2020 Actual	2016-2020 Target	Status
# of Fatalities	304.4 ¹	253.0	Not met
Fatality Rate (per 100 MVMT)	0.704 ¹	0.588	Not met
# of Serious Injuries	2,437.0	2,692.1	Met
Serious Injury Rate (per 100 MVMT)	5.616	6.157	Met
# Nonmotorist Fatalities & Serious Injuries	555.5	508.6	Not met

Note ¹: Figures listed are a combination of FARS and state fatality data; 2020 FARS data not yet published



Part III

Staff Recommended 2018-2022 Roadway Safety Targets



Background (or Why, What, and How)

- The TPB has also set regional targets in January 2018, January 2019, December 2019, and December 2020 – and are scheduled to set their next round of targets in January 2022
 - Federal requirement for State DOTs and MPOs to develop roadway safety targets on an annual basis
 - State DOTs approved their most recent set of targets in August 2021
- Data-driven and realistic highway safety targets are to be set for 5 performance measures
- These data-driven performance measures enable us to consistently track regional safety results
- Targets are averages for a given 5-year period (ex., 2017-2021, 2018-2022 etc.)

2018-2022 Target Setting Methodology

- Apply Maryland’s approach to identify a “sub-target” for the Maryland portion of the NCR
- Apply Virginia’s suggested approach for its MPOs to identify a sub-target for the Virginia portion of the NCR
- Incorporate the District of Columbia’s target as a sub-target for the DC portion of the NCR
- Combine the three sub-targets into a regional target for the NCR
- If a calculated target is higher than the previous target, set the target equal to the previous target
- *Note that this is the same methodology as was used for last year’s (2017-2021) targets*



Summary: NCR Highway Safety Targets: pre-cap

	2017-2021 Target	2018-2022 Target	Difference	Percent Difference
# of Fatalities	269.5	<u>271.0</u>	1.5	0.6%
Fatality Rate (per 100 MVMT)	0.628	<u>0.633</u>	0.005	0.8%
# of Serious Injuries	2,435.8	<u>1,889.7</u>	-546.1	-22.4%
Serious Injury Rate (per 100 MVMT)	5.539	<u>3.867</u>	-1.672	-30.2%
# Nonmotorist Fatalities & Serious Injuries	529.9	<u>492.4</u>	-37.5	-7.1%



Summary: NCR Highway Safety Targets: with cap

	2017-2021 Target	2018-2022 Target	Difference	Percent Difference
# of Fatalities	253.0	<u>253.0</u>	0.0	0.0%
Fatality Rate (per 100 MVMT)	0.588	<u>0.588</u>	0.000	0.0%
# of Serious Injuries	2,435.8	<u>1,889.7</u>	-546.1	-22.4%
Serious Injury Rate (per 100 MVMT)	5.539	<u>3.867</u>	-1.672	-30.2%
# Nonmotorist Fatalities & Serious Injuries	508.6	<u>508.6</u>	0.000	0.0%



Summary: NCR Highway Safety Targets

Performance Measure (5-year rolling average)	2016- 2020 Target	2017- 2021 Target	2018- 2022 Target	Difference	Percent Difference
# of Fatalities	253.0	253.0	<u>253.0</u>	0.0	0.0%
Fatality Rate (per 100 MVMT)	0.588	0.588	<u>0.588</u>	0.0	0.0%
# of Serious Injuries	2,692.1	2,435.8	<u>1,889.7</u>	-546.1	-22.4%
Serious Injury Rate (per 100 MVMT)	6.110	5.539	<u>3.867</u>	-1.672	-30.2%
# Nonmotorist Fatalities & Serious Injuries	508.6	508.6	<u>508.6</u>	0.0	0.0%



Part IV

Next Steps



Next Steps

- Finalize roadway safety targets based on board feedback
- Request board approval of targets at the January TPB meeting



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