

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



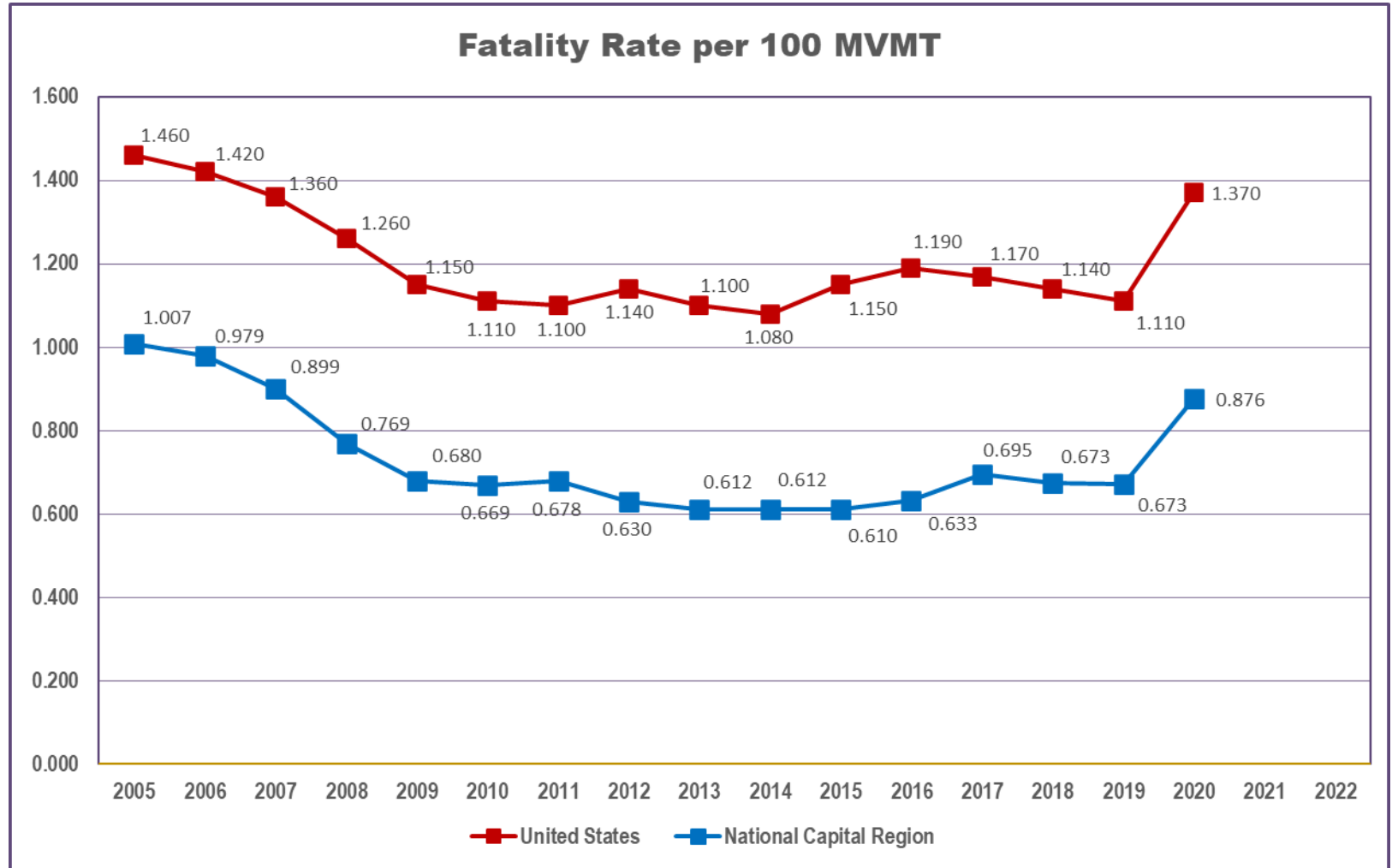
NCR Safety – With Draft 2020 Annual Data

| | 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; 2020 FARS 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 ³ 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 ³ |

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 2021
 - 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

- Present staff-proposed regional safety targets to the TPB in December
- Finalize staff-proposed targets based on board feedback
- Request board approval of targets at the January TPB meeting

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