

# DRAFT 2016-2020 PBPP HIGHWAY SAFETY TARGETS

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Jon Schermann  
TPB Transportation Planner

Transportation Planning Board  
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# Presentation Items

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- Part I: Review of Safety Trends
- Part II: Progress Towards the 2014-2018 Safety Targets
- Part III: Staff Recommended 2016-2020 Regional Safety Targets
- Part V: Next Steps



# Part I

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## Review of Safety Trends



# NCR Safety – With Final 2018 Annual Data

|   | 2014  | 2015  | 2016  | 2017  | 2018  | Change from 2017 to 2018 |
|---|-------|-------|-------|-------|-------|--------------------------|
| # of Fatalities                             | 263   | 263   | 275   | 313   | 292   | ↓ 6.7 %                  |
| Fatality Rate (per 100 MVMT)                | 0.619 | 0.610 | 0.633 | 0.695 | 0.649 | ↓ 6.6 %                  |
| # of Serious Injuries                       | 2,858 | 2,643 | 2,946 | 2,595 | 2,461 | ↓ 5.2 %                  |
| Serious Injury Rate (per 100 MVMT)          | 6.718 | 6.134 | 6.680 | 5.764 | 5.472 | ↓ 5.1 %                  |
| # Nonmotorist Fatalities & Serious Injuries | 548   | 526   | 555   | 595   | 551   | ↓ 7.4 %                  |



# Part II

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## Progress Towards the 2014-2018 Safety Targets



# Highway Safety Performance Measures

| Performance Measure   | Description  | Data Source  |
|---|--|--|
| Number of Fatalities<br>(5 year rolling average)                                    | Total number of fatalities during a calendar year                      | FARS <sup>1</sup>  |
| Rate of Fatalities per 100 million VMT<br>(5 year rolling average)                  | Ratio of total fatalities to VMT                                       | FARS and HPMS <sup>2</sup><br>(or MPO estimate)          |
| Number of Serious Injuries<br>(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<br>(5 year rolling average)            | Ratio of total serious injuries to VMT                                 | State reported serious injury data <sup>3</sup> and HPMS |
| Number of Non-Motorized Fatalities and Serious Injuries<br>(5 year rolling average) | Total number of fatalities and serious injuries during a calendar year | FARS and State serious injury data <sup>3</sup>          |

<sup>1</sup> FARS: Fatality Analysis Reporting System

<sup>2</sup> HPMS: Highway Performance Monitoring System



# 2014-2018 Actual vs. Targets - NCR

| Performance Measure<br>(5-year rolling average) | 2014-2018<br>Actual | 2014-2018<br>Target | Status  |
|---|---------------------|---------------------|---------|
| # of Fatalities                                 | 282.0               | 253.0               | Not met |
| Fatality Rate (per 100 MVMT)                    | 0.642               | 0.588               | Not met |
| # of Serious Injuries                           | 2,700.8             | 3,007.3             | Met     |
| Serious Injury Rate (per 100 MVMT)              | 6.154               | 6.791               | Met     |
| # Nonmotorist Fatalities & Serious Injuries     | 554.8               | 528.8               | Not met |



# Part III

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## Staff Recommended 2016-2020 Regional Safety Targets





# Background

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- The TPB set regional safety targets in both January 2018 and January 2019
  - Federal regulations require State DOTs and MPOs to set highway safety targets on an annual basis
  - State DOTs approved their first set of targets in August 2017, their second set of targets in August 2018, and their third set of targets in August 2019
- Data-driven and realistic highway safety targets are to be set for 5 performance measures
- Targets are averages for a given 5-year period (ex., 2015-2019, 2016-2020, etc.)



# 2016-2020 Target Setting Methodology

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- 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 (2015-2019) targets*



## Summary: NCR Highway Safety Targets: pre-cap

|  | 2015-2019<br>Target | 2016-2020<br>Target | Difference | Percent<br>Difference |
|--|---------------------|---------------------|------------|-----------------------|
| # of Fatalities                                | 253.0               | <u>281.1</u>        | 28.1       | 11.1%                 |
| Fatality Rate (per 100<br>MVMT)                | 0.588               | <u>0.653</u>        | 0.049      | 11.1%                 |
| # of Serious Injuries                          | 2,919.6             | <u>2,692.1</u>      | -227.5     | -7.8%                 |
| Serious Injury Rate (per<br>100 MVMT)          | 6.564               | <u>6.157</u>        | -0.407     | -6.2%                 |
| # Nonmotorist Fatalities<br>& Serious Injuries | 508.6               | <u>557.2</u>        | 48.6       | 9.6%                  |



# Summary: NCR Highway Safety Targets: with cap

|  | 2015-2019<br>Target | 2016-2020<br>Target | Difference | Percent<br>Difference |
|--|---------------------|---------------------|------------|-----------------------|
| # of Fatalities                                | 253.0               | <u>253.0</u>        | 0.0        | 0.0%                  |
| Fatality Rate (per 100<br>MVMT)                | 0.588               | <u>0.588</u>        | 0.000      | 0.0%                  |
| # of Serious Injuries                          | 2,919.6             | <u>2,692.1</u>      | -227.5     | -7.8%                 |
| Serious Injury Rate (per<br>100 MVMT)          | 6.564               | <u>6.157</u>        | -0.407     | -6.2%                 |
| # Nonmotorist Fatalities<br>& Serious Injuries | 508.6               | <u>508.6</u>        | 0.000      | 0.0%                  |

# Summary: NCR Highway Safety Targets

| Performance Measure<br>(5-year rolling average)   | 2014-<br>2018<br>Target | 2015-<br>2019<br>Target | 2016-<br>2020<br>Target | Difference | Percent<br>Difference |
|---|-------------------------|-------------------------|-------------------------|------------|-----------------------|
| # of Fatalities                                   | 253.0                   | 253.0                   | <u>253.0</u>            | 0.0        | 0.0%                  |
| Fatality Rate<br>(per 100 MVMT)                   | 0.588                   | 0.588                   | <u>0.588</u>            | 0.0        | 0.0%                  |
| # of Serious Injuries                             | 3,007.3                 | 2,919.6                 | <u>2,692.1</u>          | -227.5     | -7.8%                 |
| Serious Injury Rate<br>(per 100 MVMT)             | 6.791                   | 6.564                   | <u>6.157</u>            | -0.407     | -6.2%                 |
| # Nonmotorist<br>Fatalities & Serious<br>Injuries | 528.8                   | 508.6                   | <u>508.6</u>            | 0.0        | 0.0%                  |



# Part V

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## Next Steps



# Next Steps

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



## Jon Schermann

TPB Transportation Planner

(202) 962-3317

[jschermann@mwkog.org](mailto:jschermann@mwkog.org)

[mwkog.org/tpb](http://mwkog.org/tpb)

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Metropolitan Washington Council of Governments

777 North Capitol Street NE, Suite 300

Washington, DC 20002



National Capital Region  
Transportation Planning Board