

# OVERVIEW OF BICYCLIST-INVOLVED CRASHES IN THE TPB REGION

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## 2025 Regional Roadway Safety Update

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Transportation Safety Subcommittee  
November 17, 2025



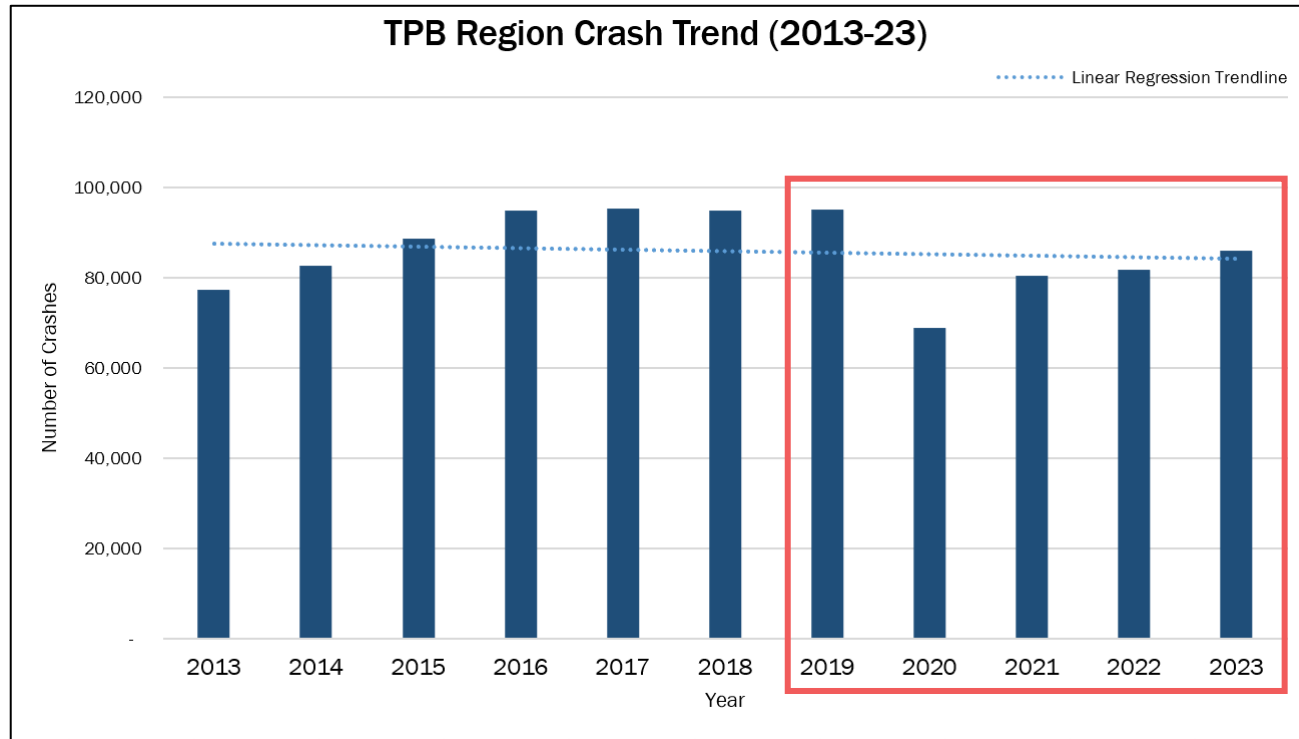
# Study Background and Purpose

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- TPB completed a Regional Roadway Safety Study in 2020, which conducted quantitative crash analysis of regional crash data for 2013-2017. The TPB subsequently adopted R32021 that prioritizes roadway safety.
- This latest study is an update of the previous study and reviews crash data for 2019-2023 with the goals of:
  - Gaining insights into the nature, frequency, and location of fatal and serious injury crashes, as well as crash characteristics, and involved factors
  - Understanding the impacts of the COVID-19 pandemic on roadway safety
  - Reviewing the safety countermeasures and strategies included in TPB Resolution R3-2021 and suggesting updates



# Regional Total Crashes

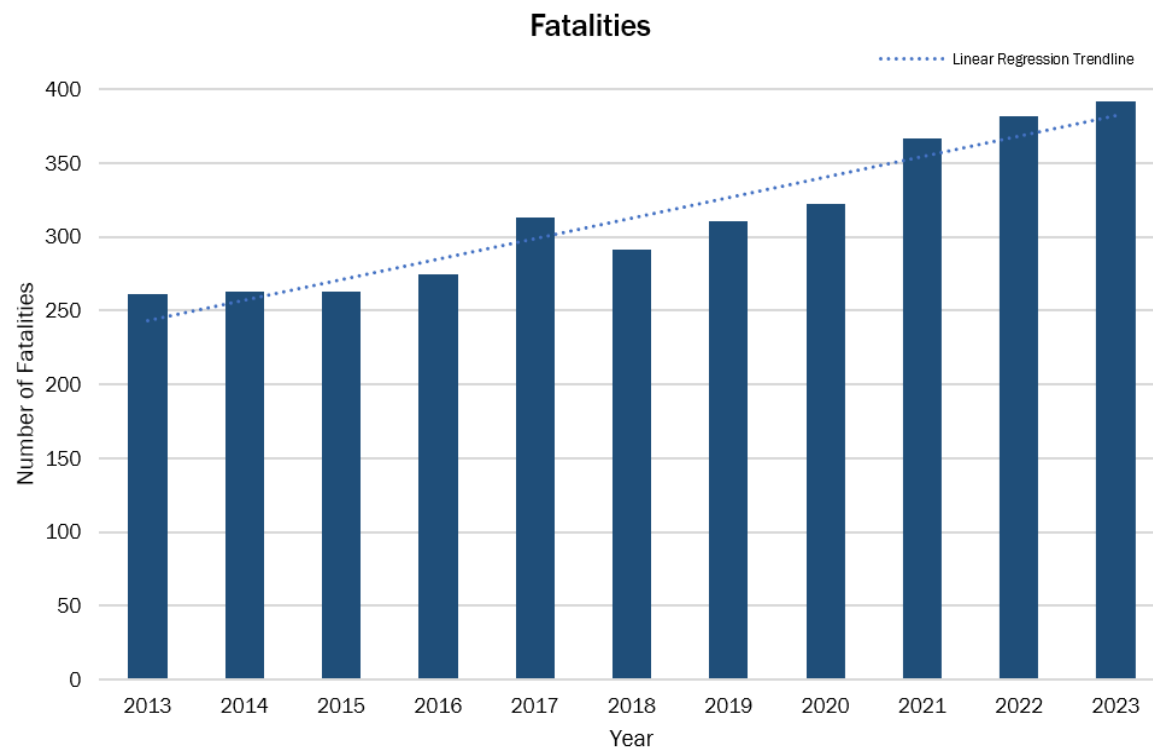


Source: District Department of Transportation (DDOT), Virginia Department of Transportation (VDOT), and Maryland Department of State Police

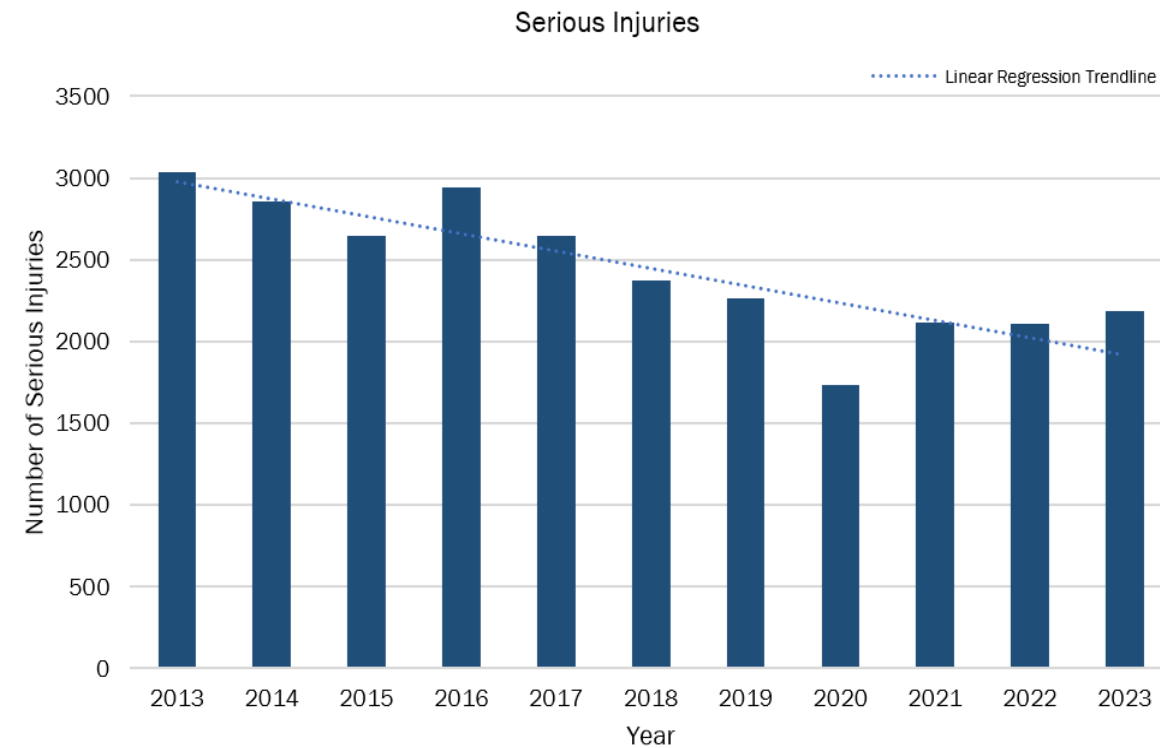
- Total number of crashes have steadily increased since 2019.
- Current numbers have not exceeded pre-pandemic levels.



# Setting the Context: Fatalities and Serious Injuries



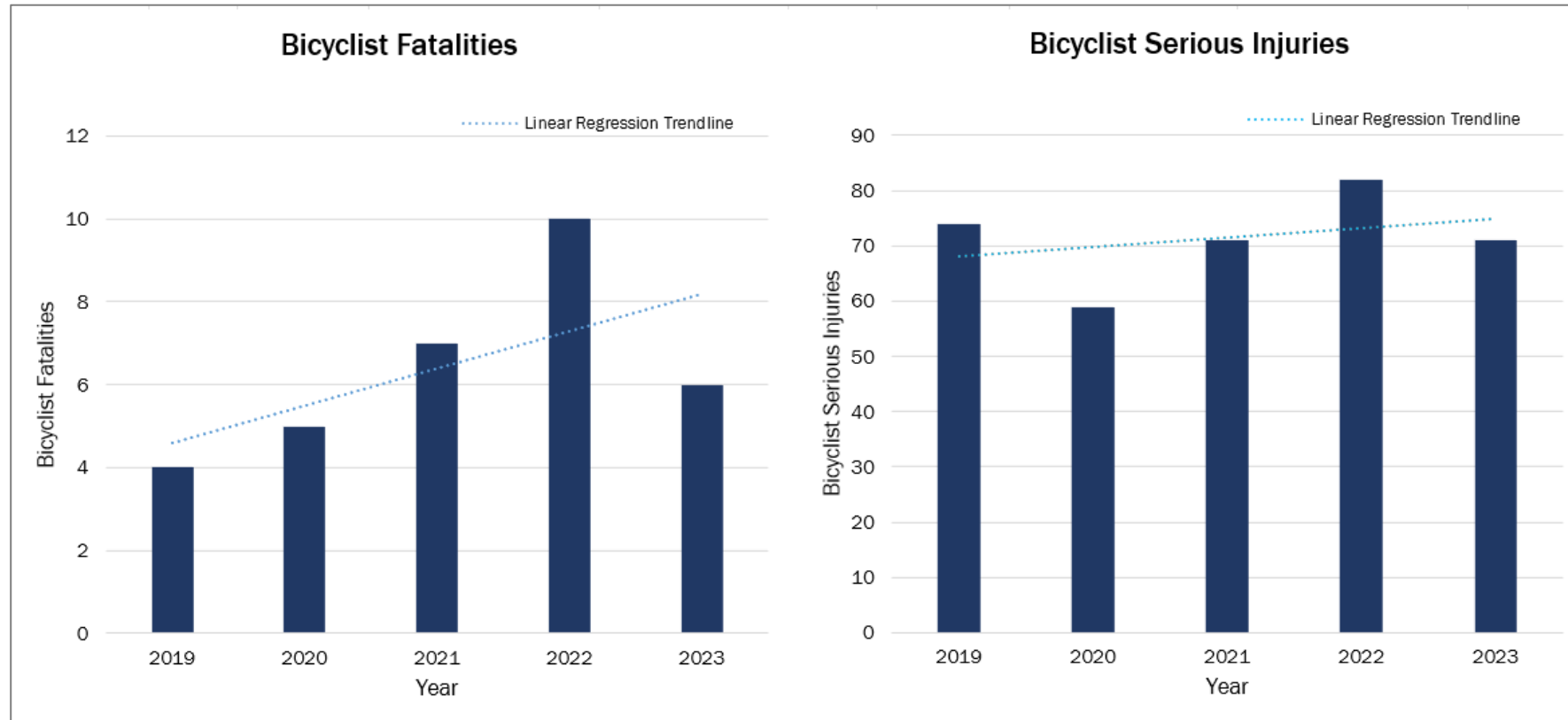
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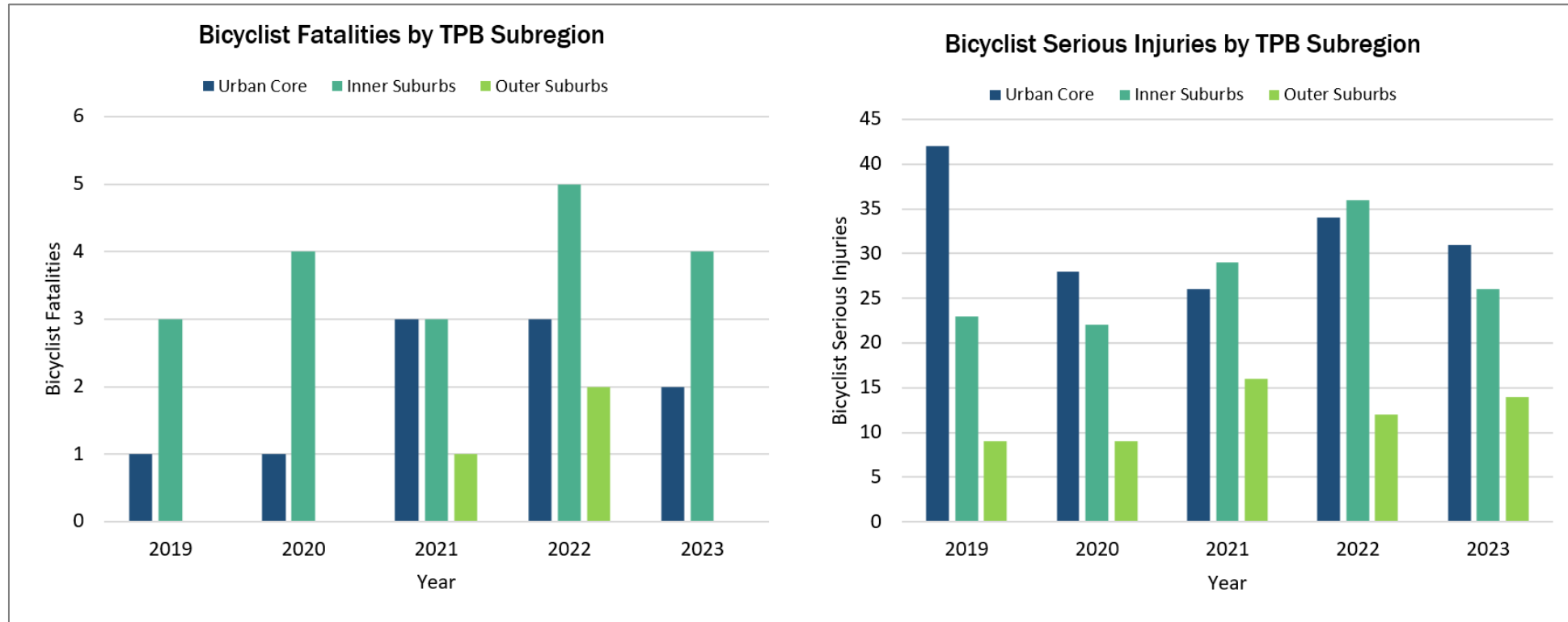
# Bicyclist-Involved Fatalities and Serious Injuries



Source: District Department of Transportation (DDOT), Virginia Department of Transportation (VDOT), and Maryland Department of State Police



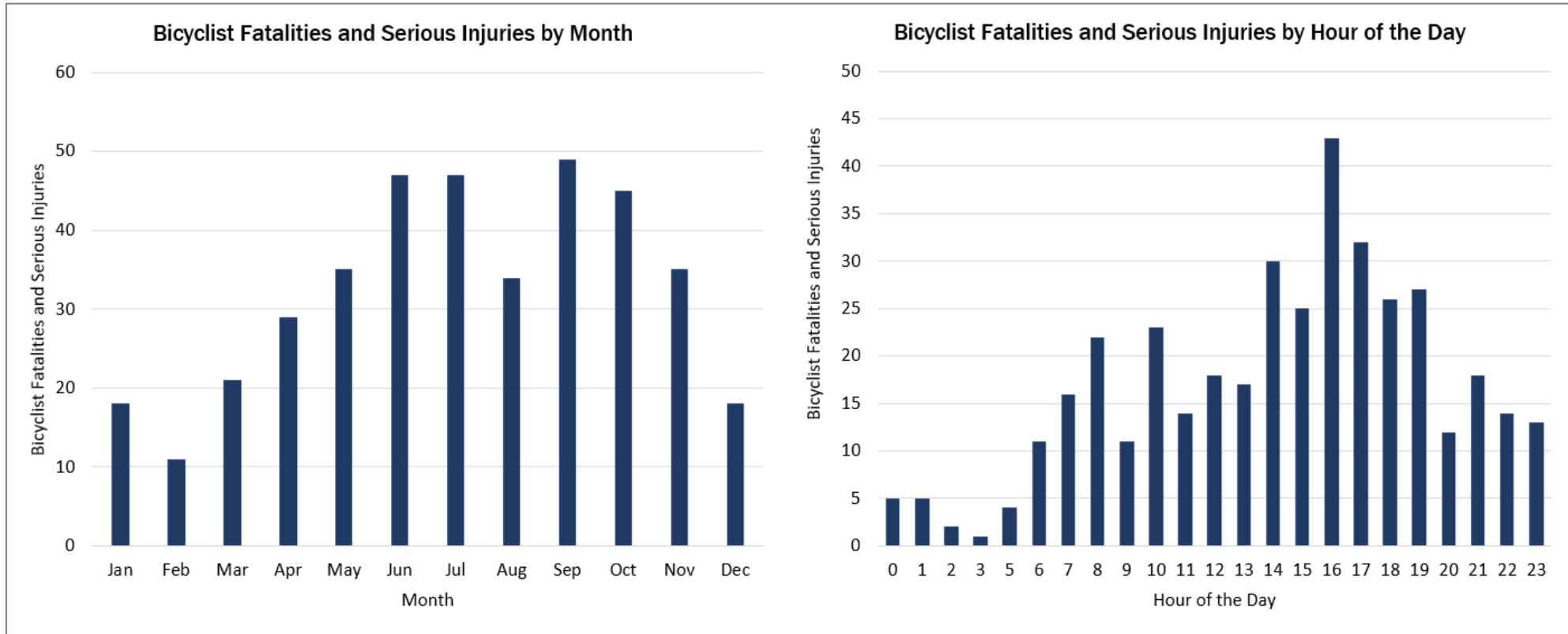
# Geographic Trends



Source: District Department of Transportation (DDOT), Virginia Department of Transportation (VDOT), and Maryland Department of State Police



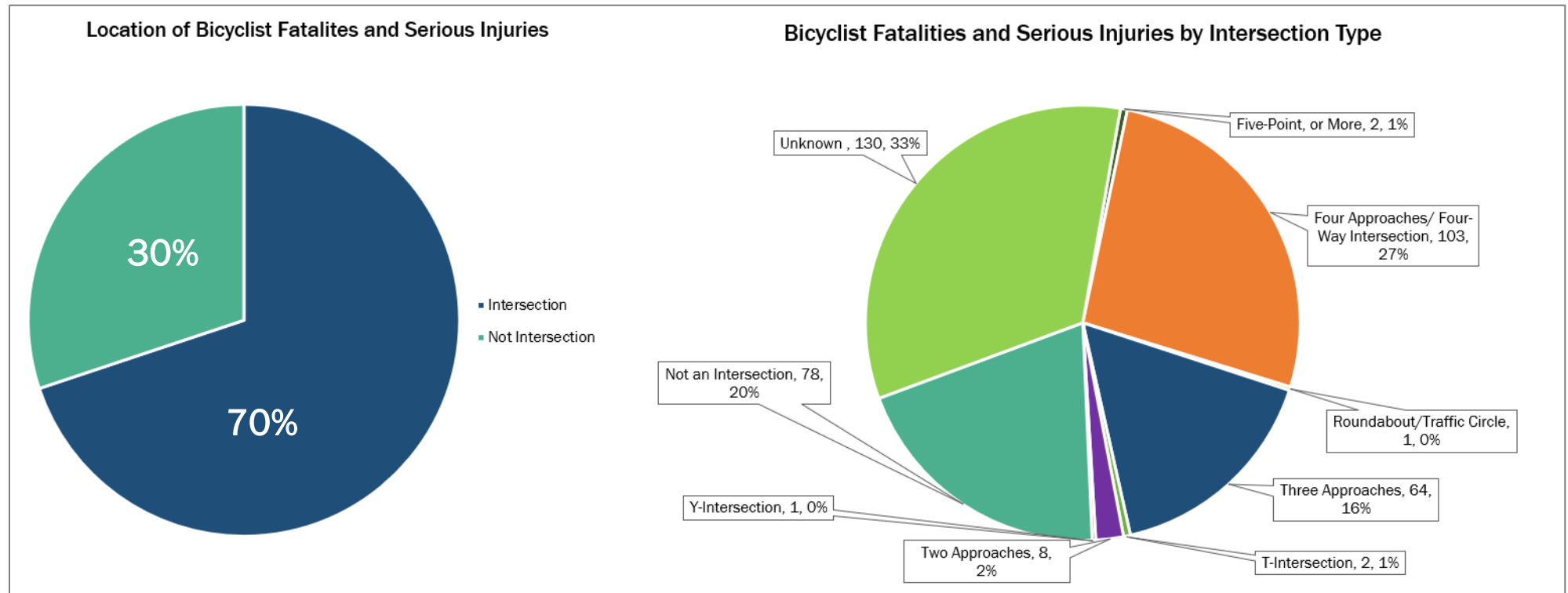
# Temporal Trends



Source: District Department of Transportation (DDOT), Virginia Department of Transportation (VDOT), and Maryland Department of State Police



# Location Trends

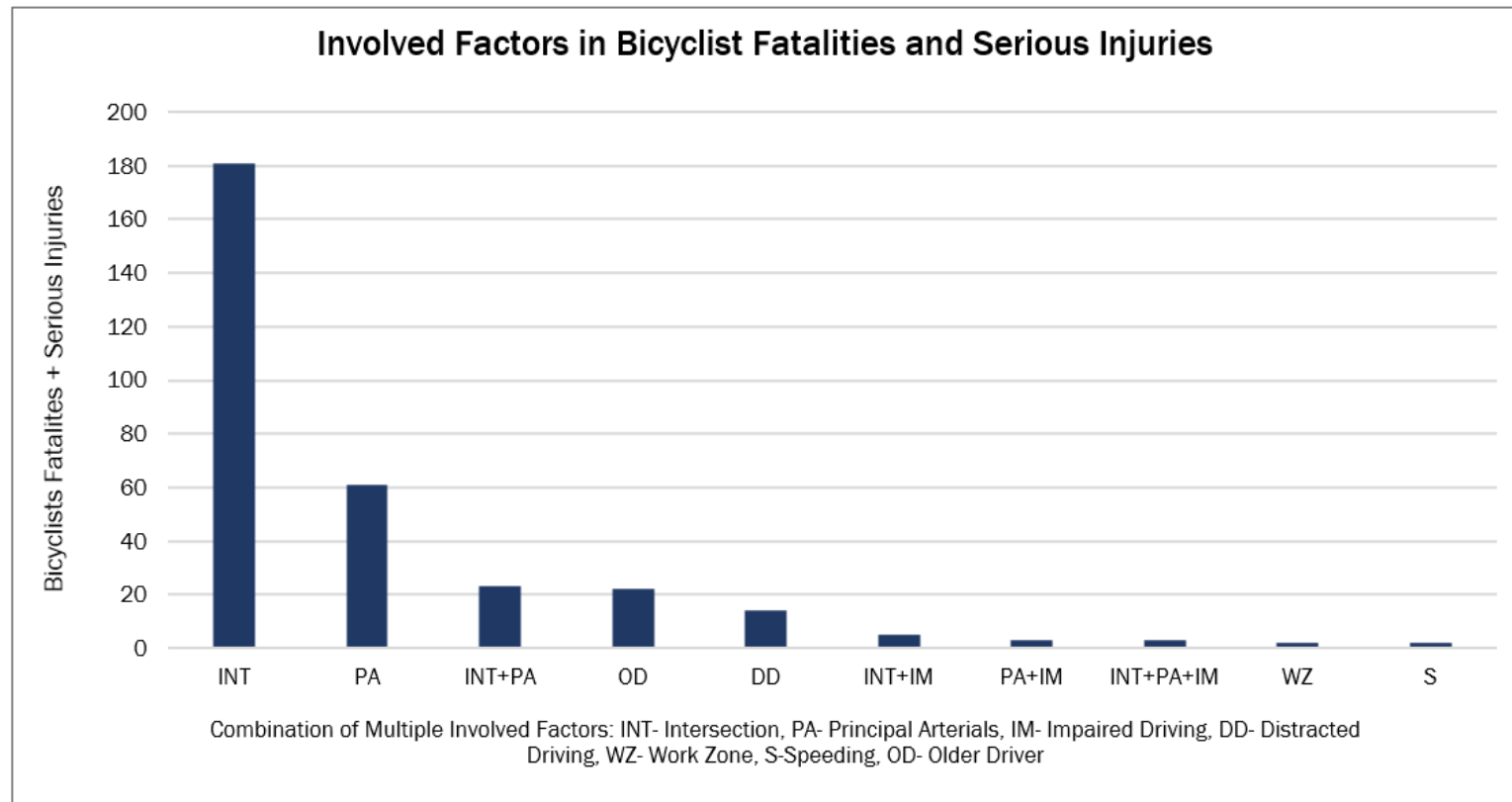


Source: District Department of Transportation (DDOT), Virginia Department of Transportation (VDOT), and Maryland Department of State Police





# Involved Factors



Source: District Department of Transportation (DDOT), Virginia Department of Transportation (VDOT), and Maryland Department of State Police



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# COVID-19 Impacts – Shift in Behavioral Trends

- The crash statistics during COVID exhibited some consistent but disturbing behavioral trends:
  - Speeding related fatalities jumped in 2020 by 67%. The percentage dropped in 2021 but stayed at above 2019 levels through 2023.
  - Impaired drivers involved in fatal crashes jumped in 2020 by 50%. The percentage dropped in 2021 and increased again in 2022 and 2023 and stayed at above 2019 levels.
  - The percentage of drivers with no seat belts involved in fatal crashes jumped in 2020 by 50%. The percentage dropped in 2021 but stayed at above 2019 levels through 2023.
  - The percentage of young drivers involved in fatal crashes jumped in 2020 by 72%. It dropped in 2021 but stayed at above 2019 levels through 2023.

