

ANALYSIS OF THE REGIONAL ROADWAY SAFETY OUTCOMES

Benchmark Peer Recommendations and Preliminary Crash Results

Safety Subcommittee
October 8, 2019



National Capital Region
Transportation Planning Board

Peers and Information Learned

- Metropolitan Transportation Commission (San Francisco, CA)
- Delaware Valley Regional Planning Commission (Philadelphia, PA)
- East-West Gateway Council of Governments (St. Louis, MO)

- Coordination
- Safety in Plans and Funding
- Analysis
- Institutional
- Target Setting
- Education and Outreach



Topic
Peer Activity
TPB Recommendation

Coordination

- Safety Subcommittee
 - Forum to address regional emphasis areas
 - Cross present at other TPB committees
 - Rebrand vision
- Local jurisdiction safety coalitions
- Educate local jurisdictions on Safety Study results
- Safety event on Safety Study results
- Form a multi-sector working group to address safety issues (GHG effort)
- Assist with local road safety plans
- Participate in state/national safety meetings
- Strengthen safety communications
- Strengthen collaboration with Vision Zero jurisdictions

Safety in Plans and Funding

- Consider updates to TIP process to better integrate safety
- Inclusion of safety in any TPB grant applications
- Strengthen safety considerations in Transportation Land Use Connections Program
- Assist local jurisdictions with Highway Safety Improvement Program (HSIP) applications
- Continue to encourage adoption of a “model” complete streets policy

Analysis

- Provide analysis outcomes of Safety Study to jurisdictions
- Suggest locations for future safety studies
- Provide additional crash data and/or analysis at locations identified for safety studies
- Guidance on how to conduct a safety study
- Develop a high injury network as part of the Safety Study

Institutional

- Share the Safety Study recommendations with TPB Board, local jurisdictions, and other relevant stakeholders to address safety culture
- Adopt Vision Zero or similar policy
- Provide safety-related technical assistance to member jurisdictions
- Host a peer exchange or safety conference/event
- Share/publish regional safety data and analysis regularly

Target Setting

- Track how other MPOs continue to evolve their target setting practices
- Track federal responses to target setting and any resources related to safety funding and project prioritization



Education and Outreach

- Review relevant, effective education campaigns to see what could be implemented in the region
- Additional safety training quarterly and/or for new audiences like residents, elected officials, children, etc. (depending on the needs)



Data Update

- Obtained final safety data sets and definitions:
 - DC: August 20th
 - Virginia: August 1st
 - Maryland: September 11th
- Joined crashes to roadway network: October 8th
- Initiated individual States and District analysis: October 1st/Ongoing
- Roll individual analysis results into regional outcomes: Ongoing



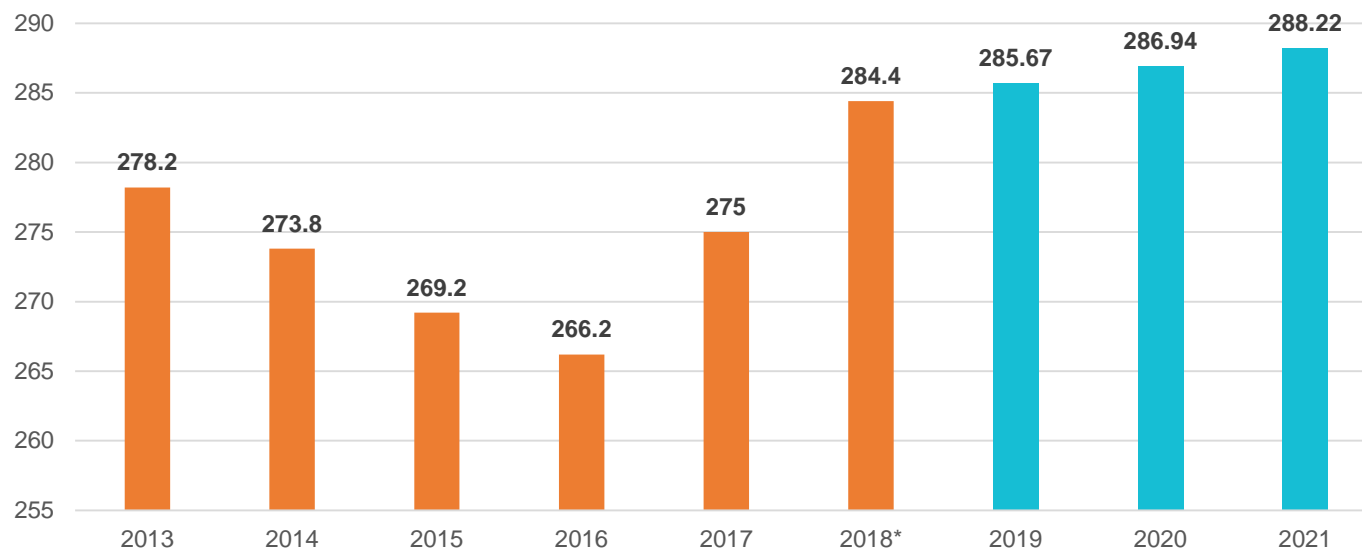
Data Challenges

- Varying data availability and sources
- Differing crash fields, codes, and possible inputs
- Reporting and database changes
- Large datasets
- Roadway files (ownership, functional class)



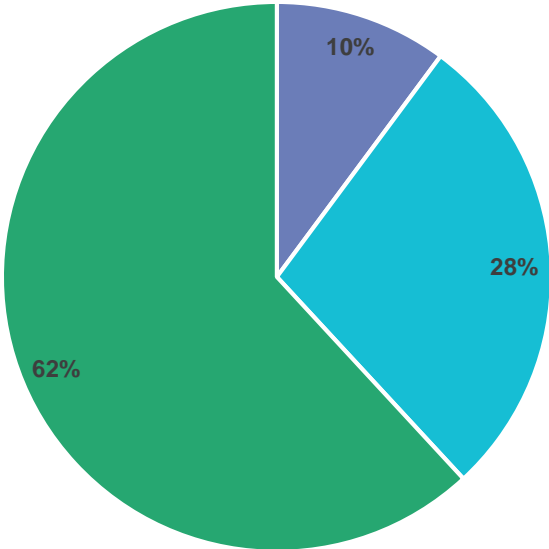
Setting the Stage

5-Year Rolling Average Fatalities

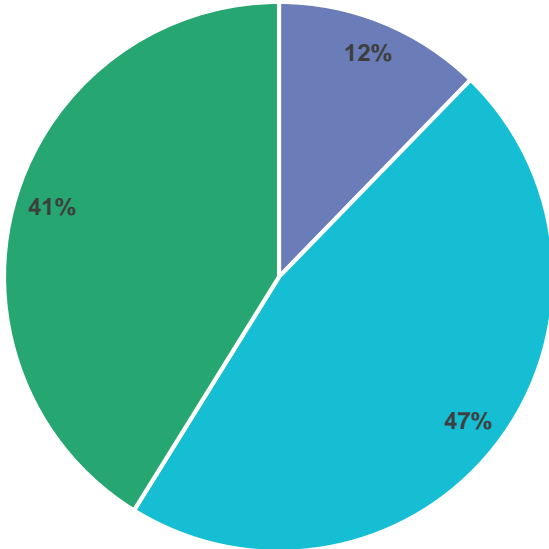


Fatalities and Serious Injuries by States/District

Fatalities



Serious Injuries

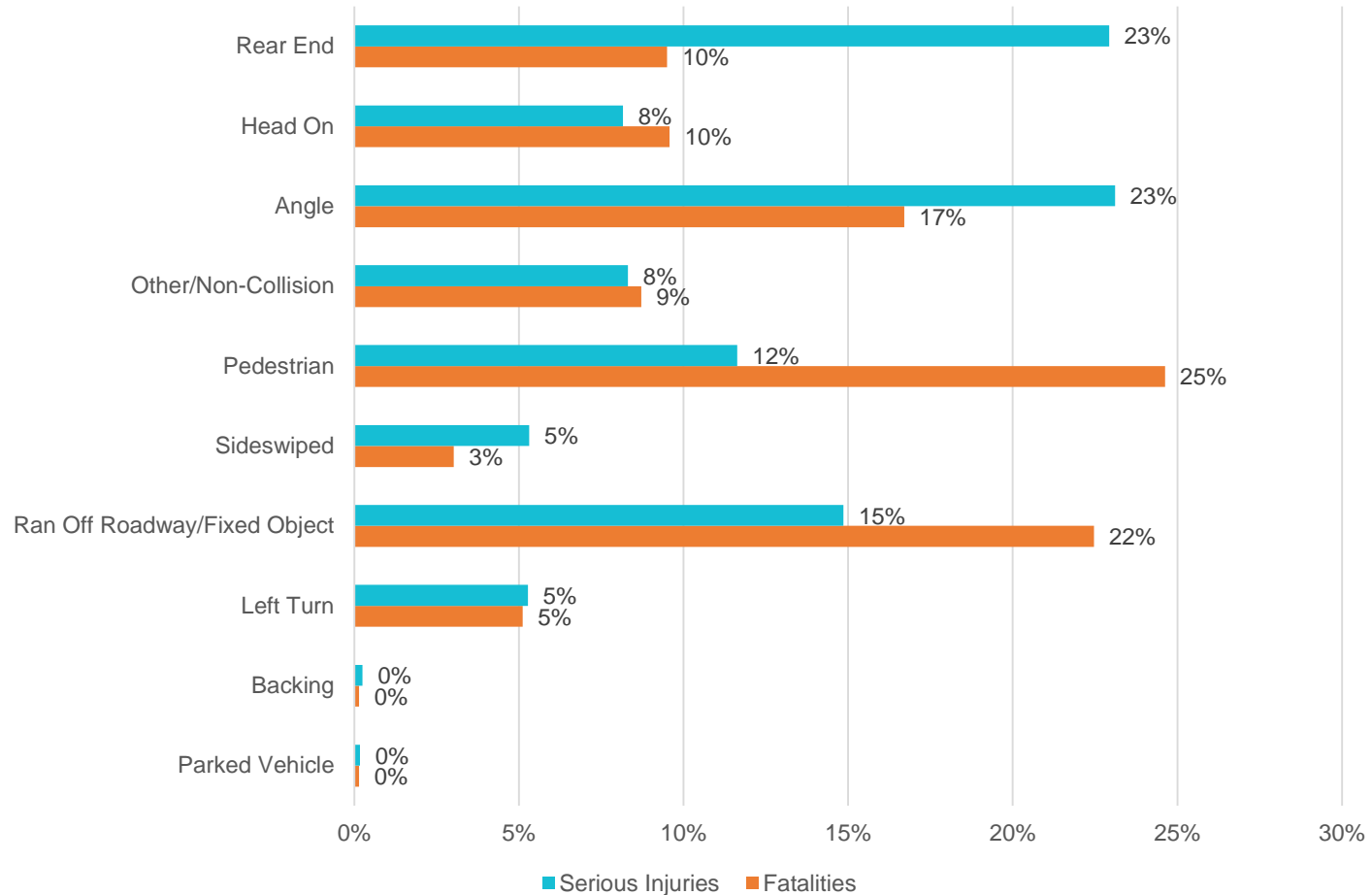


- District of Columbia
- Virginia TPB Region
- Maryland TPB Region



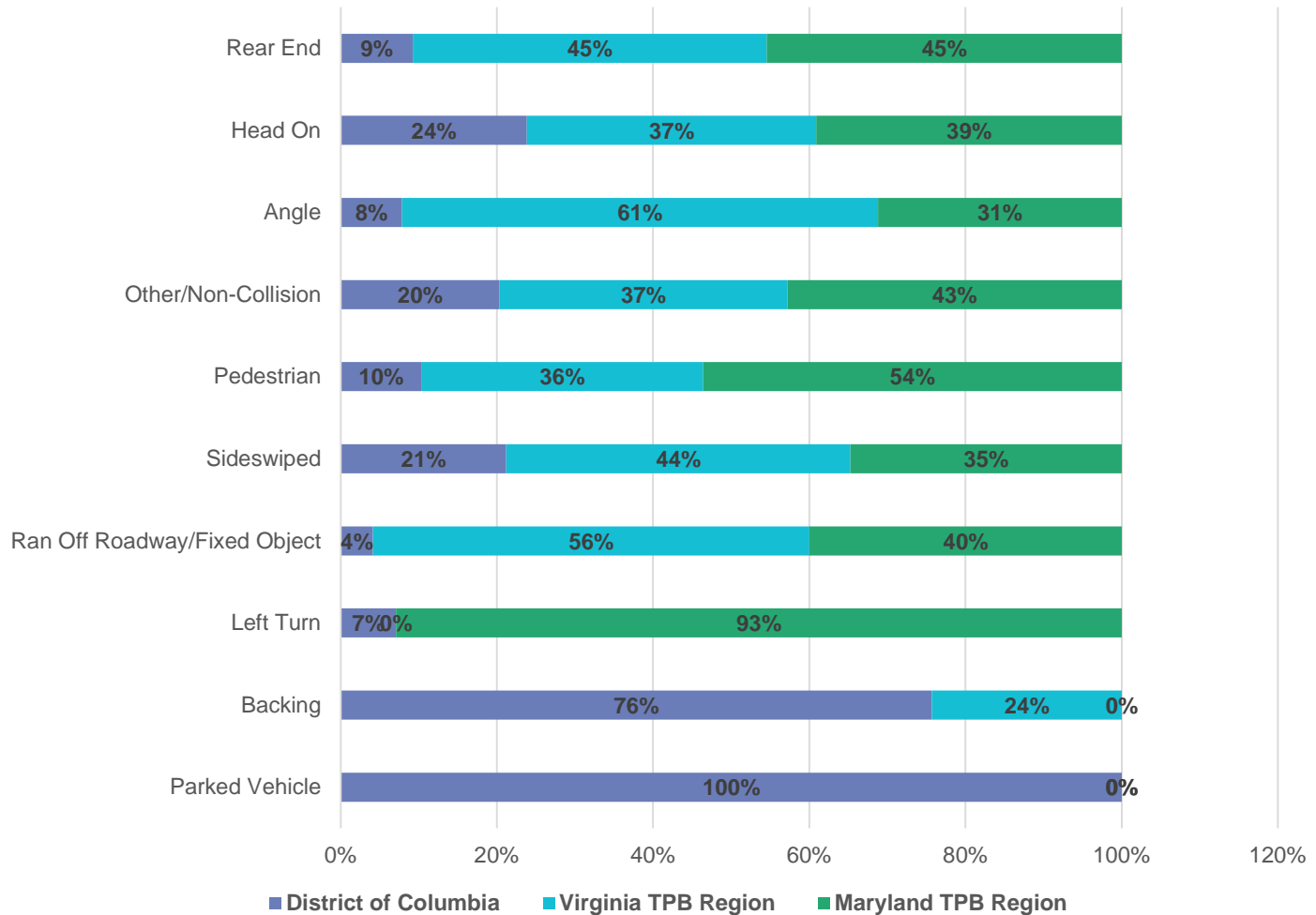
Regional Crash Types

Injury Severity by Crash Type



Crash Types by States/District

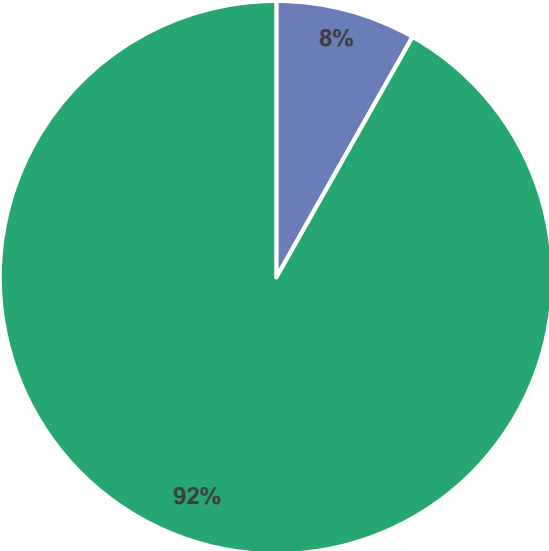
Crash Type FSI by Jurisdiction



Contributing Factors

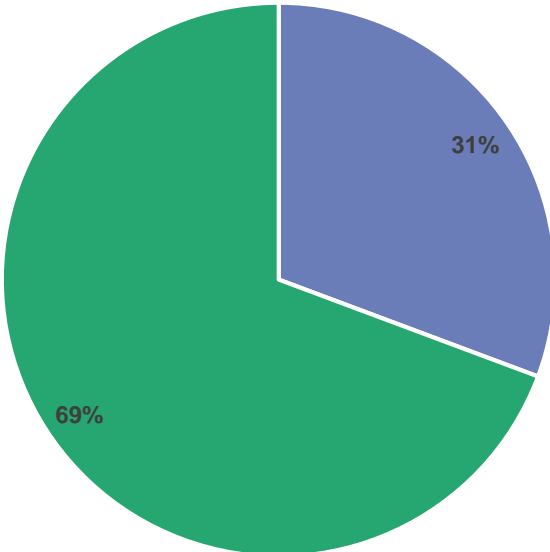
Fatalities by Alcohol Involvement

D.C.



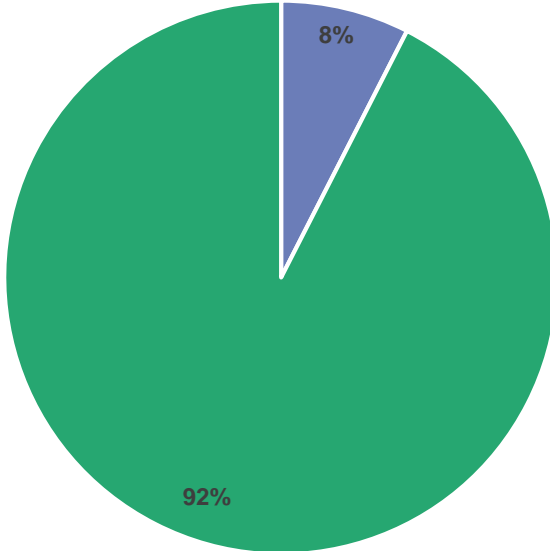
■ Yes ■ No or Unknown

Virginia (TPB Portion)



■ Yes ■ No or Unknown

Maryland (TPB Portion)



■ Yes ■ No or Unknown



More to Come

Region
State/District
Jurisdiction



- Crash Trends
- Contributing Factors
- Crash Type
- Roadway Ownership
- Functional Class
- Crash Heat Map



Network Screening Preview

- Drafted methodology to identify intersections and segments where crashes are over-represented
- Under review by TAP
- Following similar methodology to Virginia's network screening

