

REGIONAL SAFETY ACTION PLAN

Public Meeting April 2024











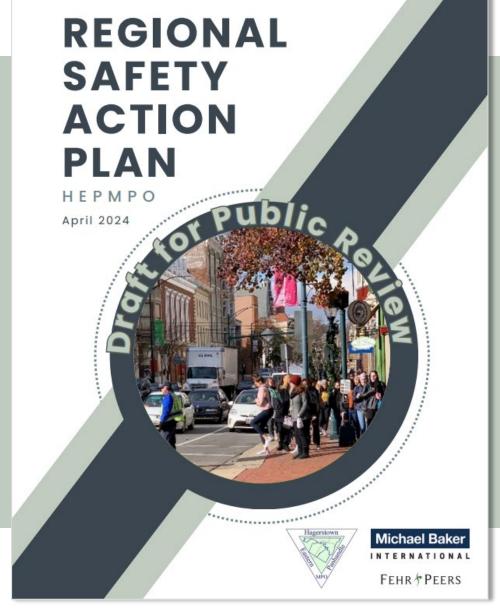
HEPMPO Website https://hepmpo.com/

Draft for Public Review Plan HEPMPO Regional Safety Action Plan - Draft

Executive Summary

HEPMPO SAP Story Map

SAP Interactive Map Set
HEPMPO SAP Map Set





MEETING AGENDA

1 Safety
Action Plan
Overview

Structure

Action Plan
Structure

Structure

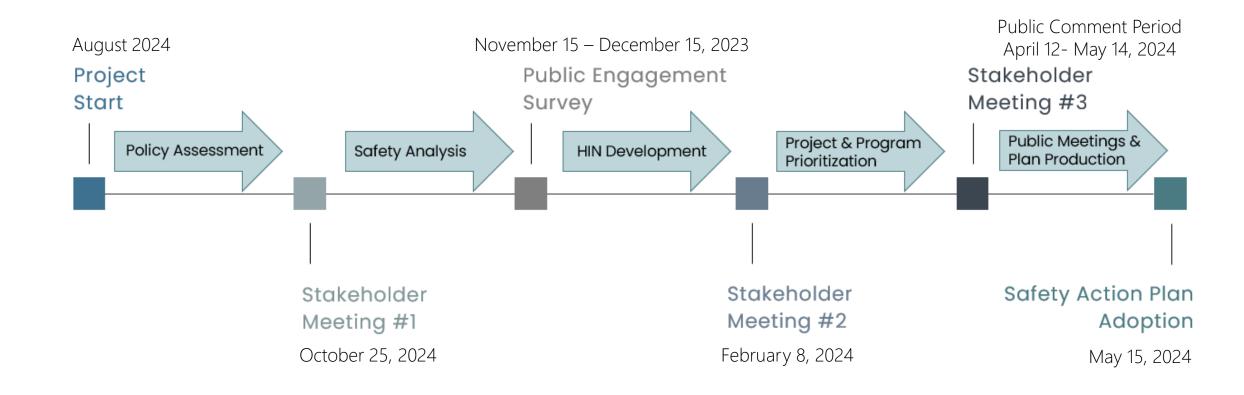
Analysis

Action Plan
Structure

Analysis



PLAN SCHEDULE





PLAN OVERVIEW

Acknowledgments

Chapter 1: Introduction

Chapter 2: Plan Development and Input

Chapter 3: Our Safety Story

Chapter 4: Focusing Efforts to Make a Change

Chapter 5: Taking Action

Chapter 6: Performance Evaluation and Transparency

Appendix A: Public Meetings

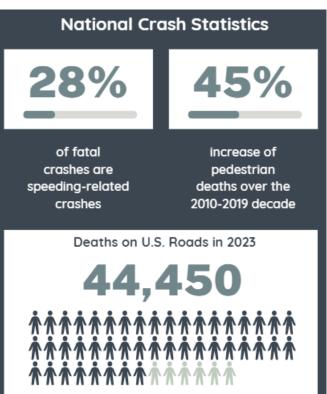
Appendix B: Countermeasures

Appendix C: Technical Memorandums

SAFE SYSTEM APPROACH

In 2022, the United States Department of Transportation introduced the National Roadway Safety Strategy (NRSS) to address the safety crisis on our Nation's

roadways.



The NRSS declares a goal of zero deaths and adopts the Safe System Approach (SSA) as the guiding framework for addressing roadway safety and achieving this goal.

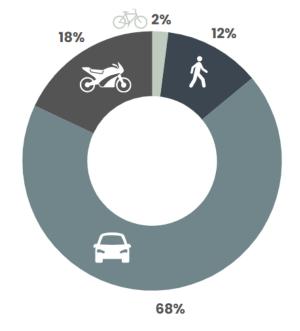




NEED FOR A SAFETY ACTION PLAN

In 2022 alone, the HEPMPO region had a total of 4,680 non-interstate crashes, 137 resulted in a person being killed or severely injured (KSI).

HEPMPO 2018-2022 Non-Interstate KSI Collisions by Mode





SAFE STREETS FOR ALL (SS4A)

With the completion of the Action Plan, the MPO and local agencies in the region will be eligible to apply for projects (including on state-maintained facilities)*.

- ✓ Action Plan Comprehensive set of actions (strategies, policies, programs, and projects) to reduce roadway fatalities.
- ✓ Demonstration Projects Testing for proposed project and strategy approaches in Action Plan (\$100K -\$10M per award).
 USDOT expects to award hundreds of these grants. Can apply with in-progress Action Plan.
- ✓ Implementation Projects Engineering and/or behavioral solutions (focus on systemic, equity, and vulnerable road users) from Action Plan (\$2.5M \$25M per award). USDOT expects to award 50 of these grants. Can apply with adopted Action Plan.

Requirements

- 80% Federal | 20% local match
 - o In-kind contributions can be used as match
- Set aside for planning and demonstration activities (\$461 million this year).**
 - Developing new Action Plans, as well as supplemental planning and demonstration activities
 - Supplemental planning and demonstration activities included in an Implementation Grant count toward set aside
- No more than 15% of funds can be awarded to projects in a single State in a given fiscal year.
 - Tribal applications are not counted toward the State cap.



SS4A GRANT CRITERIA

Ŀ	Planning Criteria					
Ï	Comprehensive Safety Action Plan Element Criteria	How HEPMPO Achieved It				
1	Governing body in the jurisdiction publicly committed to an eventual goal of zero roadway fatalities and serious injuries.	The HEPMPO ISC is the governing body that reviews and approves the plan.				
	Set targets to achieve significant declines in roadway fatalities and serious injuries.	Outlined in Chapter 1: Introduction . The region's goal is to reach zero traffic fatalities and severe injuries by 2050.				
2	To develop the Action Plan, a committee, task force, implementation group, or similar body established and charged with the plan's development, implementation, and monitoring.	A Stakeholder Advisory Committee was formed to help outline the plan and develop strategies. Outlined in Chapter 2: Plan Development and Input.				
3	Analysis of existing conditions and historical trends to baseline the level of crashes involving fatalities and serious injuries across a jurisdiction, locality, Tribe, or region.	An online map was created to graphically show 2018 – 2022 MDOT and WVDOT Crashes in the Region. Outlined in Chapter 3: Our Safety Story.				
	Analysis of systemic and specific safety needs is performed as needed (e.g., high risk)	Outlined in Chapter 3: Our Safety Story.				
	Analysis of the location where there are crashes, the severity, as well as contributing factors and crash types.	Outlined in Chapter 3: Our Safety Story.				
	A geospatial identification (geographic or locational data using maps) of higher risk locations.	A High Injury Network was created and shown in a map. Outlined in Chapter 4: Focusing Efforts to Make a Change.				

This example does not show all elements. The complete table can be found in the plan.



PLAN STRUCTURE

1 2 3 4 5 6
Safety Action Plan Overview Structure Struct



PLAN DEVELOPMENT

Plan Development Input Structure



Plan Development Elements

- Public and stakeholder engagement
- Equity considerations
- Policy assessment and benchmarking
- Safety analysis
- Project and program prioritization
- Performance measures and evaluation
- Funding opportunities



METROQUEST OVERALL RESULTS

APPLICANT INFORMATION

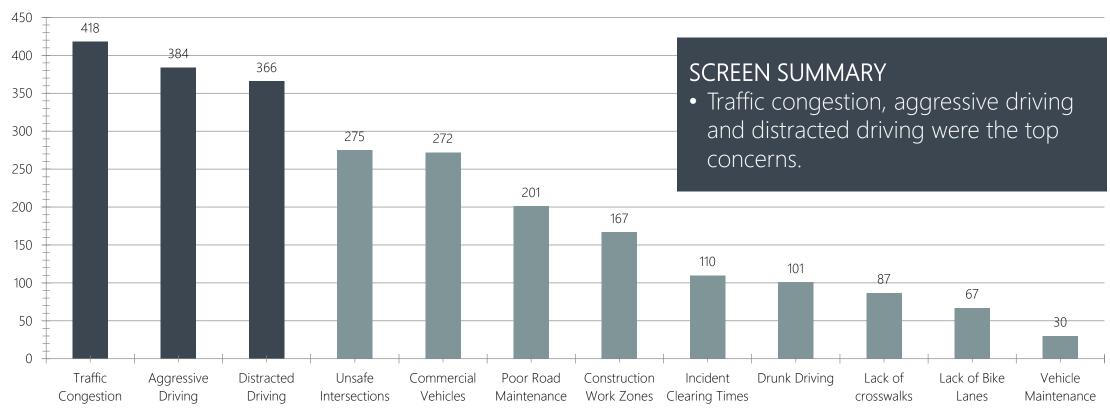
- 574 total participants!
- Around 50/50 female and male.
- Majority were 45 and older, the highest percentage of respondents were 65 and older.
- Most were white, only 7% were of another race/ethnicity.





SAFETY CONCERN RANKING

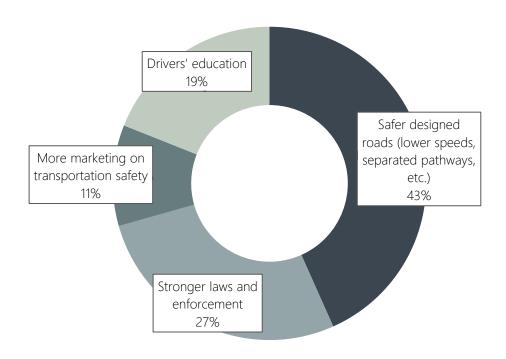
Safety Concerns





BIKE/PEDESTRIAN SAFETY

What would make you feel safer choosing to walk or bike? Select three.



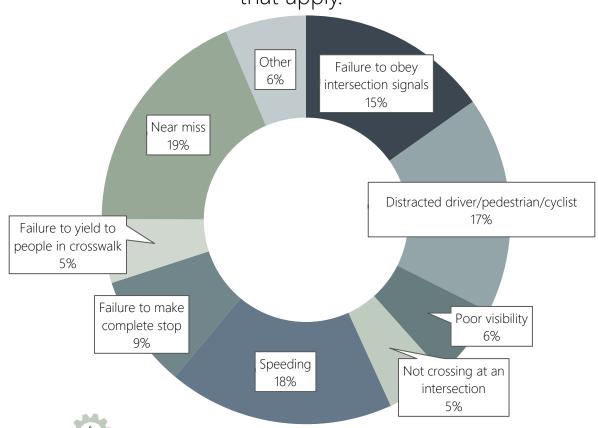
SCREEN SUMMARY

- More than half of the participants walk or bike in the area.
- Top five contributors of safety problems:
 - 1. Distracted driving
 - 2. High speeds
 - 3. Lack of separation between vehicles and non-motorists
 - 4. Lack of bike lanes / crosswalks
 - 5. Road design / maintenance
- Almost half of the participants want to see safer designed roads including lower speeds, separated pathways, and other safety designs.



DRIVER SAFETY

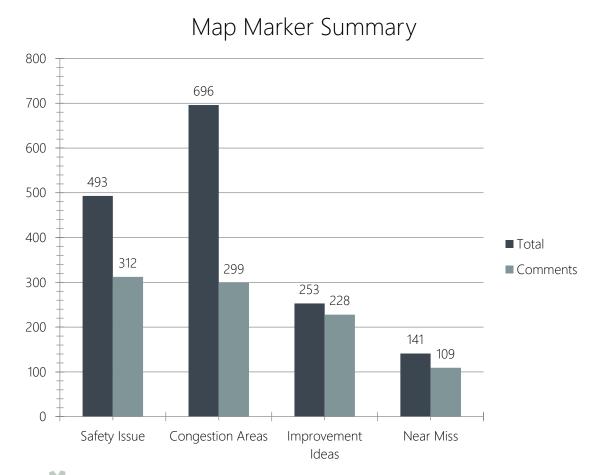
What was the nature of the incident? Check all that apply.



SCREEN SUMMARY

- 66% of participants have experienced a driving safety incident within the last year.
- Majority of the participants were driving when the incident occurred and only twelve percent of participants experienced the incident while walking.
- Half of the incidents were near miss, speeding, or distracted driving/pedestrian.

MAPPING



SCREEN SUMMARY

Safety

• The top issues were unsafe intersections and speed.

Congestion

- 60% experience congestion between 4PM and 7PM
- 27% experience congestion between 6AM and 11AM.

Improvement Ideas

• Most suggestions were related to additional lanes, sidewalks and connectivity, incorporating lights, and enforcing laws.

Near Miss

- 85% of participants experienced a near miss within the past six months.
- 89% percent of people said they have <u>experienced</u> <u>multiple near misses at a specific location</u>.

1,583 TOTAL PIN DROPS & 948 COMMENTS

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POLICY AND BENCHMARKING ASSESSMENT

Step 1

• Identify and review relevant documents and plans.

Step 2

• Populate benchmarking tool with findings from the document and plan review.

Step 3

• Stakeholders select top five benchmarking opportunities.

Step 4

Develop action plan.



Source: FHWA



POLICY AND BENCHMARKING ASSESSMENT

Benchmarking Strengths

Core Element	Category	HEPMPO Safety Strength
	Identifying corridors of concern	 Dual Highway (US 40) in Hagerstown Washington St (between Burhans Blvd & Cannon Ave) in Washington County WV 9 (Traver's Country Store to Dollar General) in Berkeley County Summit Point Rd (Shirley Rd to Lloyd Rd) in Jefferson County Foxcroft Avenue Pedestrian Road Safety Audit in Berkeley County
Safety Planning and Culture	Funding	TIP funds programmed HSIP for Roadway Departures • Daniel Road • Flowing Springs Exit • Districtwide Roadway Departures • Walnut Street and Virginia Avenue railroad crossings
	Previous planning efforts	The 2019 Regional Traffic Safety Study was the region's first effort to identify areas of safety concern and recommend safety improvement strategies.
Safe Users	Transit safety	No major transit safety concerns within the region.
Safe Roadways	Collision avoidance	Installing proven countermeasures to separate users in space and time, such as infilling sidewalks along segments of Dual Highway.
Safe Speeds	Enforcement	Speed cameras authorized in Washington County (school zones and work zones) and Hagerstown has a handful of red light cameras to reduce red light running. Berkeley County has radar speeds signs on I-81 and school zones, and has conducted previous safety campaigns.
Post Crash Care	Crash review	Beyond collecting crash data from both state DOTs, HEPMPO conducts additional outreach with local police to capture any missing crashes or obtain further crash details.



POLICY AND BENCHMARKING ASSESSMENT

Benchmarking Opportunities

Core Element	Category	HEPMPO Safety Opportunity
	Leadership and commitment	No regionwide resolution currently supporting safety program nor committing to specific safety goal.
Safety Planning and Culture	Meaningful engagement and equity	Limited meaningful engagement with populations that are traditionally underserved.
Salety Flamming and Culture	Funding	Staff time, limited resources, and support to apply for safety funding.
	Development review	No formal process to ensure new developments assess safety impacts.
Safe Users	Education	Limited opportunities to raise awareness with the public and stakeholders to create buy-in for safety improvements (i.e., demonstration projects, education programs, tactical urbanism).
Safe Roadways	Policies and tradeoffs	Lack of regionwide safety related policies to supplement the AASHTO Greenbook, MUTCD, and/or implementation of existing policies (e.g., Complete Streets, modal prioritization).
Safe Vehicles	Best practices guidance	Little knowledge sharing or available resources within the region regarding safe vehicle best practices.
Safe Speeds	Policy and training	Limited awareness of speed management methodologies and strategies in the region.
Post Crash Care	Crash review	Independent crash review of fatal and severe injury crashes involving pedestrians and bicyclists.
rost Clash Cale	Data sharing	Engagement with emergency responders and hospitals to more effectively share data across agencies.





Data Inputs

- Crash data (2018 2022)
- Roadway network and attributes
- Municipal boundaries
- Equity areas
- Population data

Crash Trends Analysis

- Fatality rate
- Crashes by injury severity and mode
 - Year
 - County
 - Collision type
 - Location
 - Posted speed limit
 - Equity area
 - Urban vs Rural¹

Crash Location Analysis

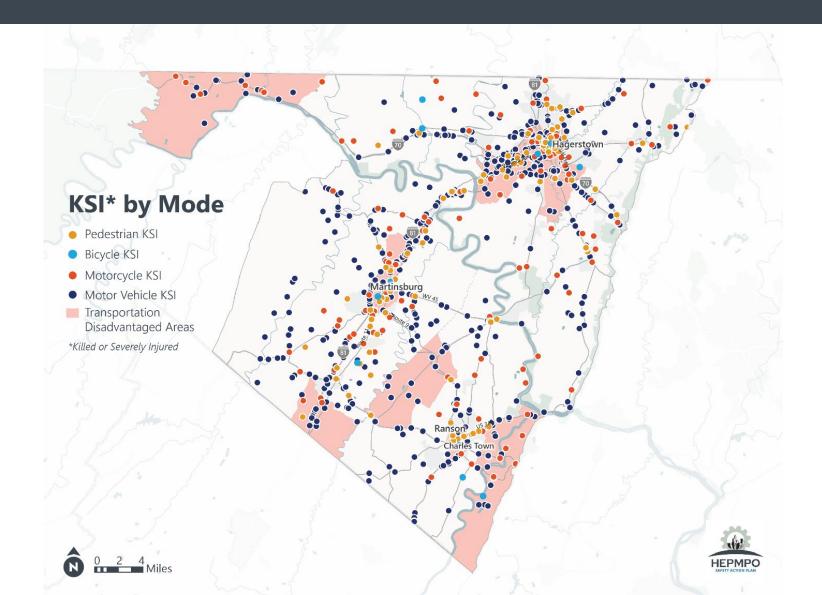
- Developed highinjury network
- Higher weight given to KSI² & VRU³ crashes

Priority Corridors

- State VRU Corridors
- Equity areas
- Public input
- Stakeholder committee input



- 1: Within a municipal boundary or outside a municipal boundary
- 2: Killed or severely injured
- 3. Vulnerable road user (e.g., pedestrian, bicycle, motorcycle)





Between 2018 and 2022, nearly 3 crashes per week resulted in a fatality or severe injury on non-interstate roadways within the region.

- Motor vehicle collisions are the most common in the region, but VRU¹ collisions have a higher rate of KSI.²
- Single vehicle and rear end collisions are the most common, but single vehicle and headon collisions are the most common when the collision resulted in a KSI.

Key Findings

- Roadways with 50-55 MPH posted speed limits account for only 3% of non-interstate roadways in the region, but account for 10% of KSI non-interstate crashes.
- Bicycle and pedestrian KSI crashes occur at a higher rate compared to other modes within Transportation Disadvantaged areas.
- Most crashes, except for motorcycles, primarily occurred within an urban area (municipal boundary).

- KSI crashes are relatively split between urban and rural areas, except pedestrian
 KSI crashes primarily occur within urban areas.
- The fatal crash rate, including interstate crashes, per 100,000 people for the region is 11.5, but Berkley County has a higher fatal crash rate of 12.5.
- Safety fact sheets were developed to address single vehicle crashes, head-on crashes, angle crashes, and bicycle and pedestrian crashes.



Vulnerable road user (e.g., pedestrian, bicycle, motorcycle)

^{2.} Killed or severely injured

PROFILE 1:

Single Vehicles Crashes*



The single vehicle crash profile involves incidents where one vehicle loses control and collides with stationary objects like trees, poles, guardrails, or veers off the road. Contributing factors include driver distraction, impairment, excessive speed, adverse weather, or avoiding obstacles. Despite no other vehicle involvement, the consequences can be severe, including rollovers, ejections, and significant injuries or fatalities. This profile underscores the importance of driver awareness, adherence to speed limits, and roadway designs that minimize off-road hazards for improved safety.

* Excluding bicyclists and pedestrians.

30% of all crashes

267
killed or seriously
Injured (KSI) crashes

37% of all KSI crashes were within this category

Single Vehicle Crashes Single Vehicle KSI

SAFETY FACT SHEET

Most commonly seen along:

Along High-Injury Network:

- · Apple Harvest Dr
- Hedgesville Rd
- Dual Highway

- · Winchester Ave
- · Williamsport Pike
- Route 9

Along Non-High-Injury Network:

- · Bloomery Rd
- Interstate 68
- Needy Rd

· Rohrersville Rd

Countermeasures

Fixed Objects







· Back Creek Valley Rd





At Night







Speed







RESULTS

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RESULTS



HIGH INJURY NETWORK

A High Injury Network (HIN) is a collection of segments and corridors within the region that carry a disproportionate number of fatal and severe crashes and crashes involving people walking, biking, or riding a motorcycle, also known as vulnerable road users.





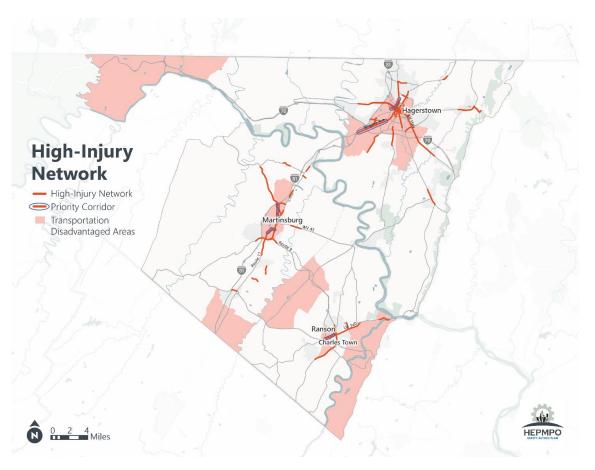
PRIORITY CORRIDOR PROFILES

Priority corridor profiles were developed to generate project ideas and countermeasures to address safety issues along the top identified corridors in the region.





HIGH INJURY NETWORK

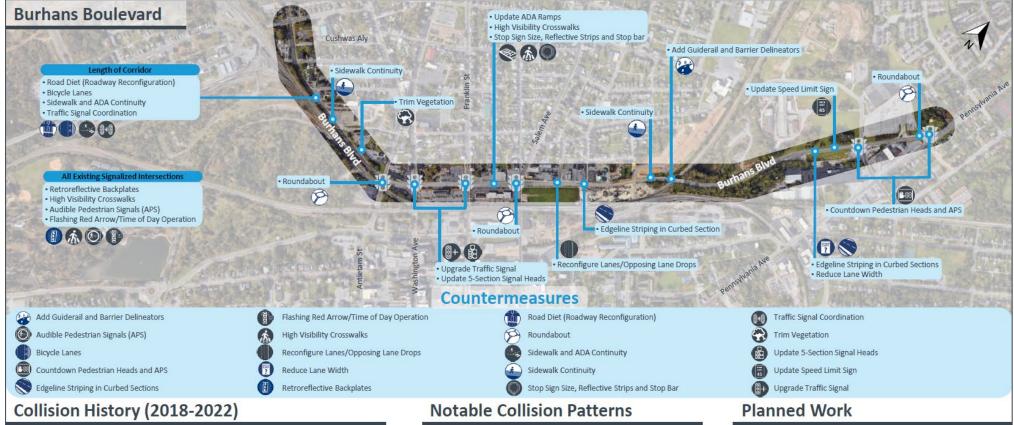








PRIORITY CORRIDOR PROFILE - HAGERSTOWN









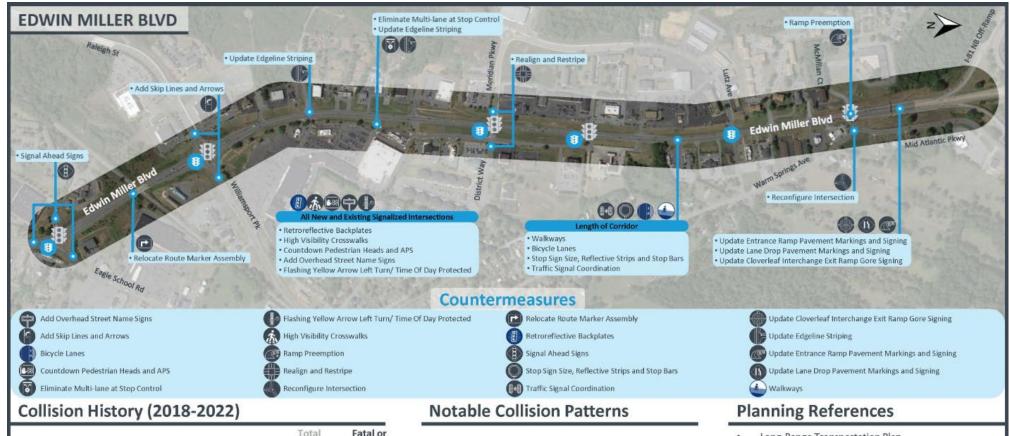




Angle at Signal

- Local Federal Aid Projects
 - W2019-07 Roadway Project
- Bike/Pedestrian
 - Designated VRU Corridor

PRIORITY CORRIDOR PROFILE - MARTINSBURG







	Total Collisions	Fatal or Severe Injury
	491	3
8	3	1
00	2	1
**	5	3



Signal



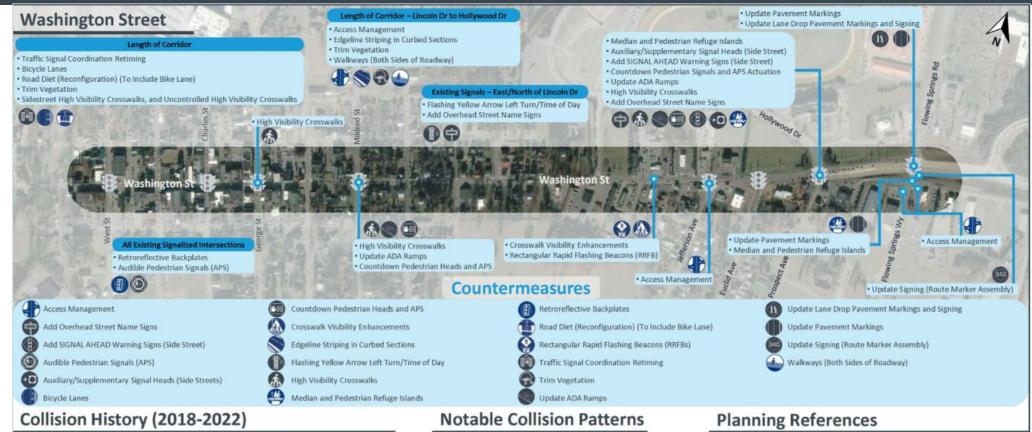


Angle

- Long-Range Transportation Plan
 - Hedgesville Road
 - Nichols Overhead
 - Transportation Improvement Program
 - Lutz Avenue Signal Project (13)

 - Bike/Pedestrian
 - Designated VRU Corridor
- - Courthouse Drive Traffic Signal Project

PRIORITY CORRIDOR PROFILE - CHARLES TOWN





	Total Collisions	Fatal or Severe Inj
	232	2
0	2	0
00	1	0
*	5	4





Angle at Signal

- **Existing Plus Committed Projects**
 - J2016-02 Charles Town CBD Signal System
- TIP Projects
 - J2024-09 Washington St (at West St)
- Fiscally Constrained Projects
 - C34 Washington St Intersection Improvements (at Jefferson Ave)
 - J101.0 Extension of Turn Lanes (at Flowing Springs Rd)
- Bike/Pedestrian
 - Designated VRU Corridor



ACTION PLAN

1 2 3 4 5 6
Safety Action Plan Overview Structure Struct



IMPLEMENTATION PRIORITIES





EVALUATION AND MONITORING

Monitoring Committee

- Establish a Safety Action Committee
- Performance metrics:
 - Total fatalities
 - Fatality rate
 - Total serious injury
 - Serious injury rate
 - Non-motorized fatalities and serious injuries
 - Number of KSI crashes within transportation disadvantaged areas
 - Percentage change in KSI single vehicle crashes and KSI angled crashes





NEXT STEPS

1 2 3 4 5 6
Safety Action Plan Overview Structure Struct



PUBLIC COMMENTS & NEXT STEPS

Matt Mullenax - HEPMPO Executive Director

Comments accepted through May 14, 2024

Email Comments to mmullenax@hepmpo.net or

Contact Us at https://hepmpo.com/about-up/contact/



