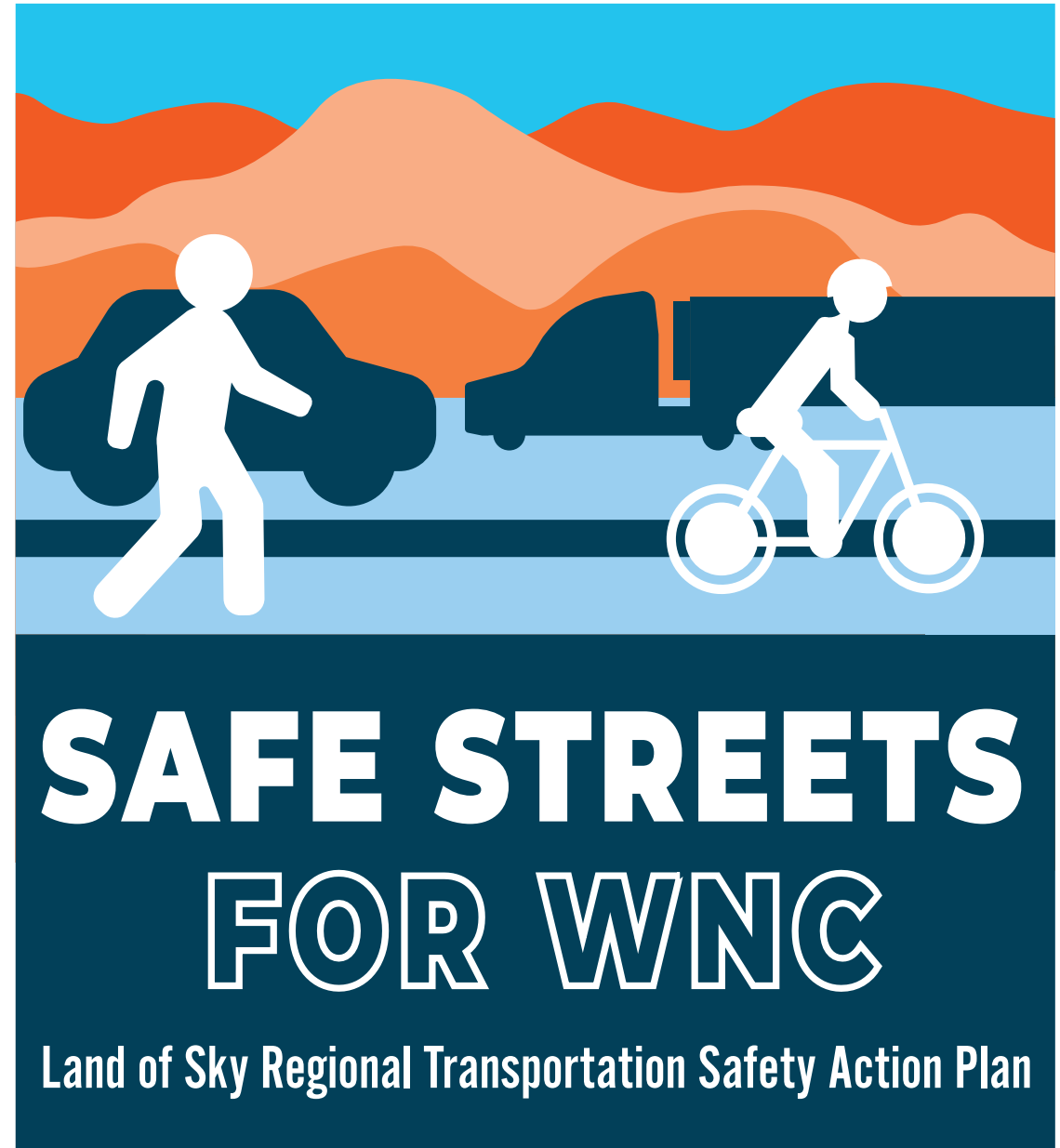


Safety Summit

June 5, 2025



Welcome

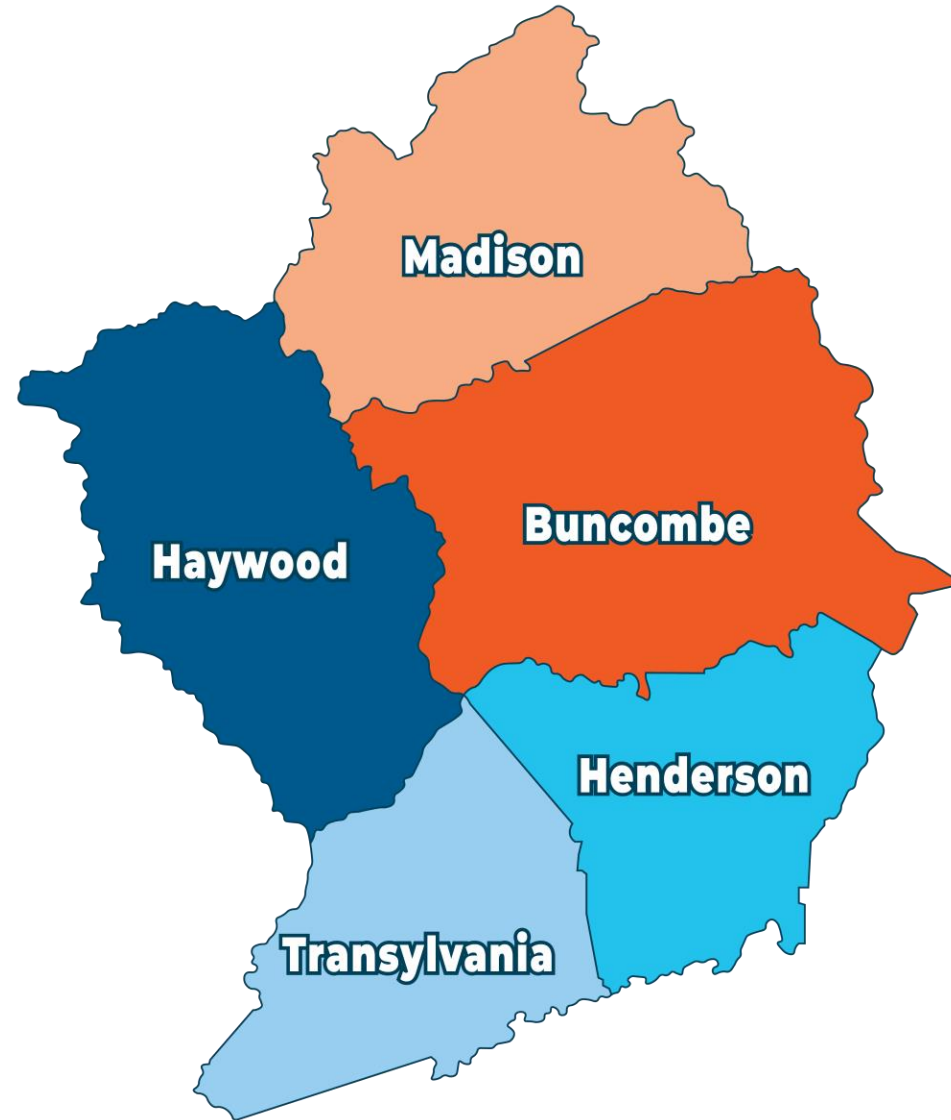
Buncombe County

Haywood County

Henderson County

Madison County

Transylvania County



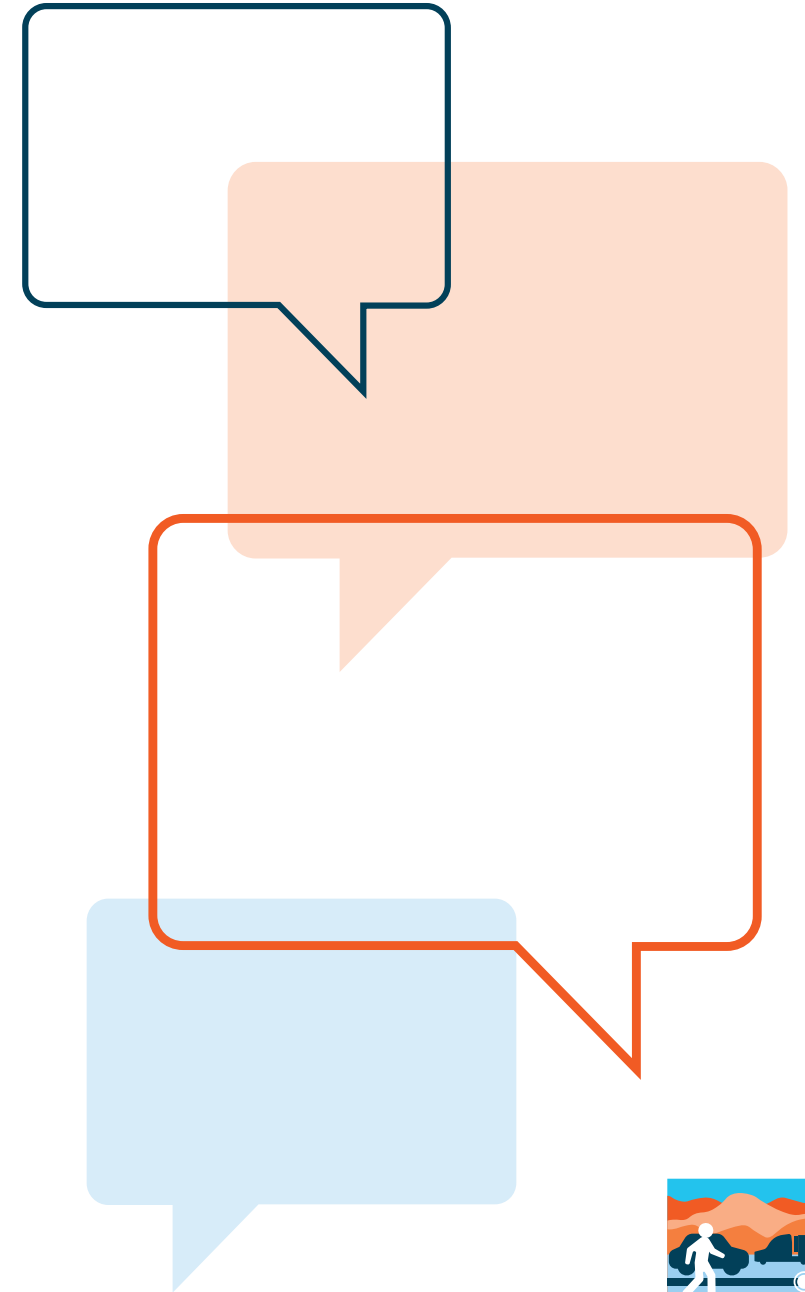
Agenda

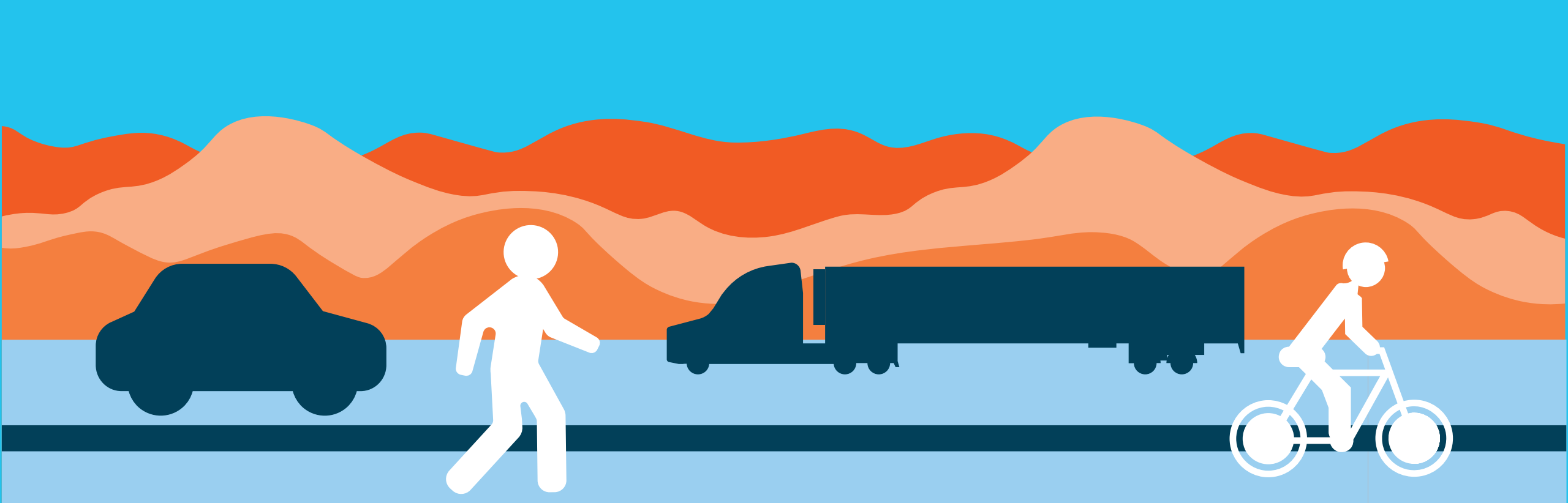
- Opening Remarks and Introductions
- Safety Planning Process Recap
- Safety Plan Tools and Products
- Group Activity
- Public Engagement Recap
- Goals and Strategies
- Your Turn!
- Final Thoughts and Next Steps



Group Introductions

- Which agency are you here representing and how long have you been in your position?
- What have you learned or how has your understanding of traffic safety changed over the last year?





Safe Streets for WNC Recap

Partners in Safety



U.S. Department of Transportation
Federal Highway Administration



How do we improve safety?



<https://frenchbroadrivermpo.org/safe-streets-for-wnc-regional-safety-action-plan/>



Goals for the Plan



Identify strategies to achieve a significant reduction in fatalities and serious injuries on the region's transportation system.

**Inform
other regional
efforts**

**Increase
awareness of
transportation
safety and risks**

**Identify
needs and
recommended
safety
improvements**

**Ensure
consistency
with HSIP and
USDOT funding
programs**

**Follow a
Safe System
Approach**



[illegible]

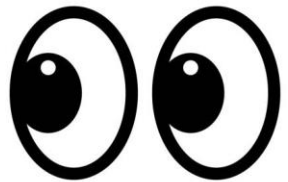
Crash and Safety Analysis

Crash Analysis: All Reports 2016-2023

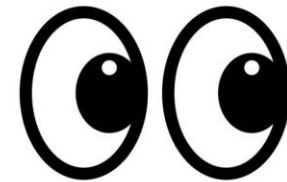
- Crash Type analysis
- Frequency by road classification & number of lanes
- Age, race and gender

Risk-Based Analysis

Exposure, likelihood, and severity



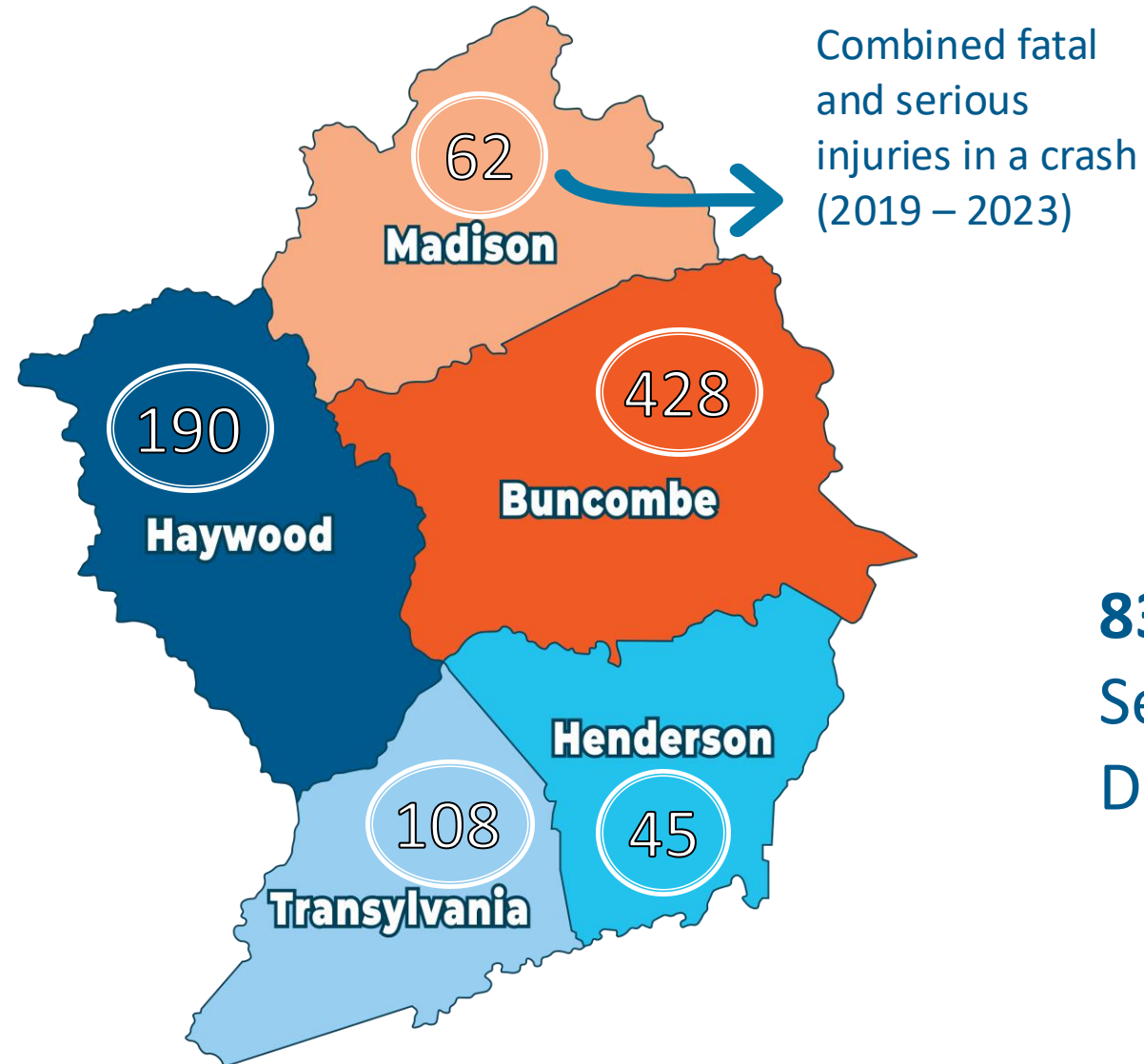
**Looking back:
understanding crash
history**



**Looking forward: using
data to understand
future risk**



Breakdown by County w/o Interstate Data



833 Fatal and Serious Injuries Due to Crashes



Focus Crash Types



Lane Departure
(57%)



Older Driver
(23%)



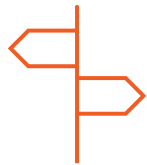
**Seat belt/ car
seat (22%)**



Motorcycles
(22%)



Impairment
(19%)



Intersections
(18%)



Speed
(16%)



Pedestrians
(8%)



Heavy Truck
(8%)



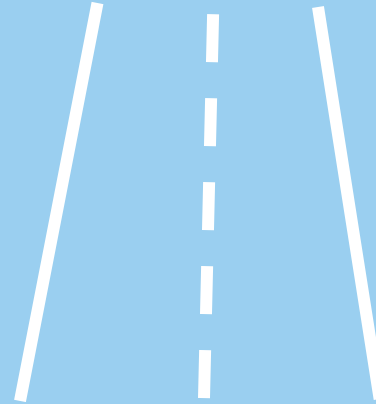
Bicyclists
(2%)



Key Roadway Types: Fatal and Serious Injury Crashes



76% occurred in rural areas*



50% occurred on 2-lane, undivided roads*



33% occurred on US Routes, which account for 3% of total region mileage



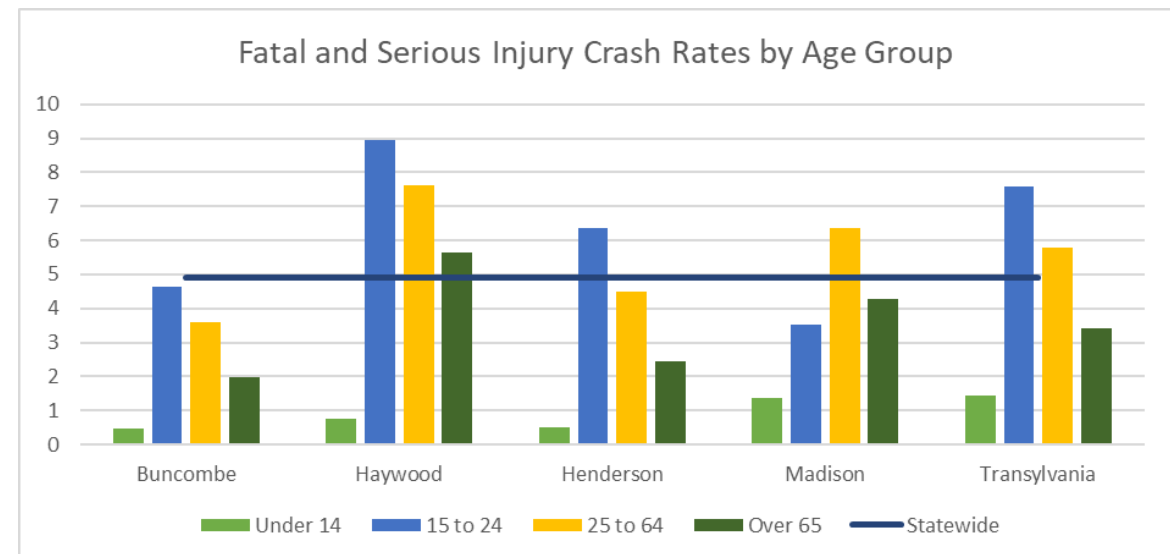
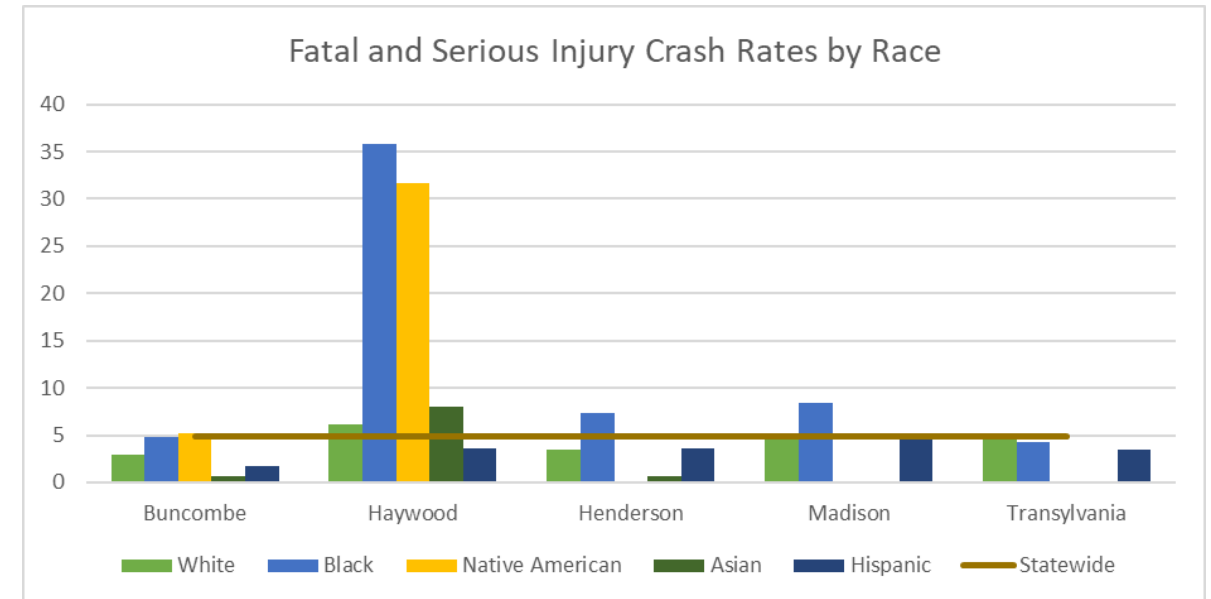
40%+ of pedestrian crashes occurred on multi-lane roads (majority undivided)*



Who is most impacted?

Fatal and serious injury crash rates per:

- Race
- Age groups
- Gender



High Injury Network

What is a HIN?

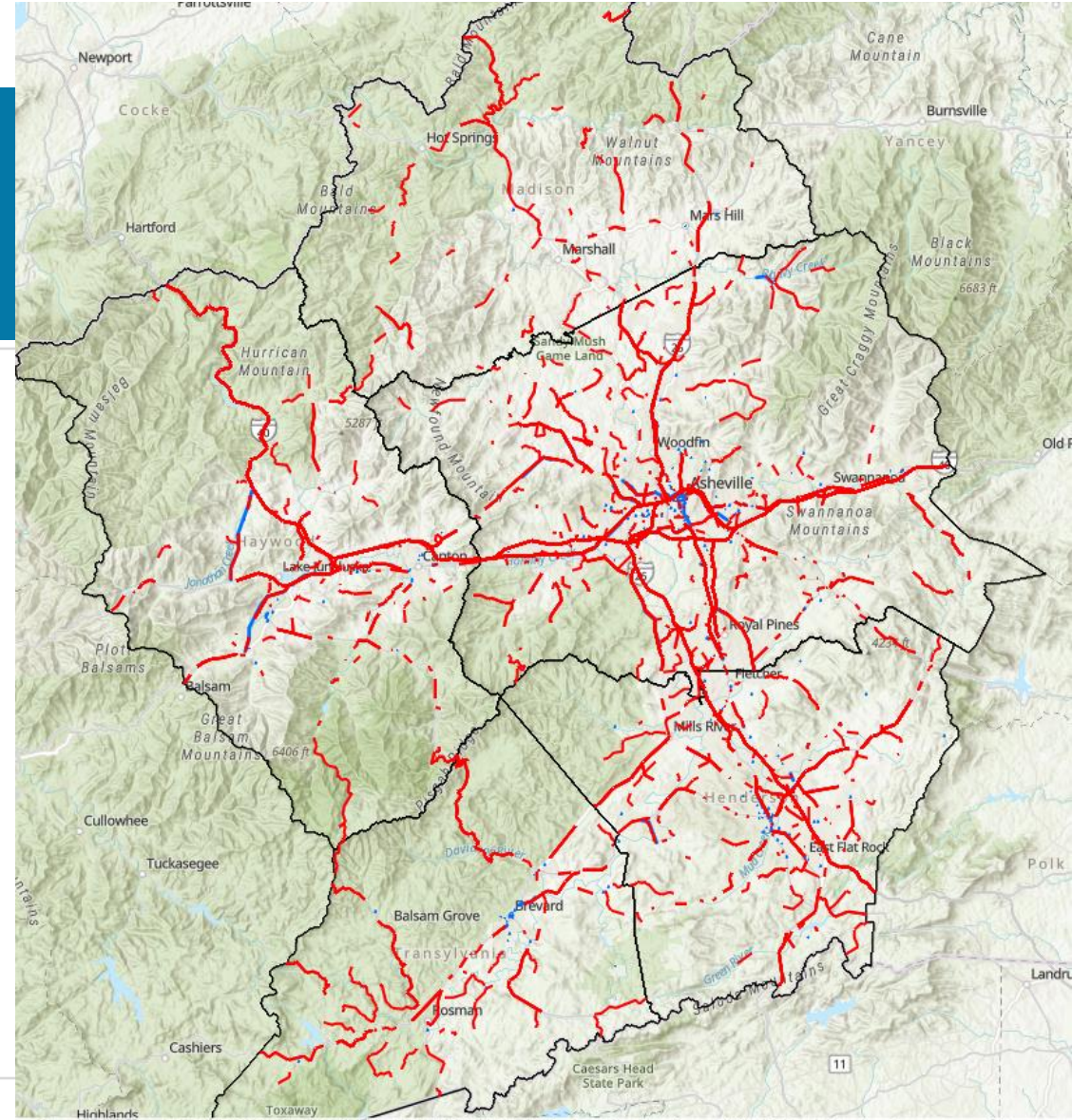
Locations with frequent crashes and with higher severities

- High Injury Network (top 3% segments or 7% of mileage)
- High Injury Intersections (top 1% of intersections)
- High Injury Bike Ped (non interstate, .5% of mileage)
- High Injury Intersections – Bike Ped (top 1% of intersections)

What does it show us?

Representation of Fatal / Serious Injury Crashes

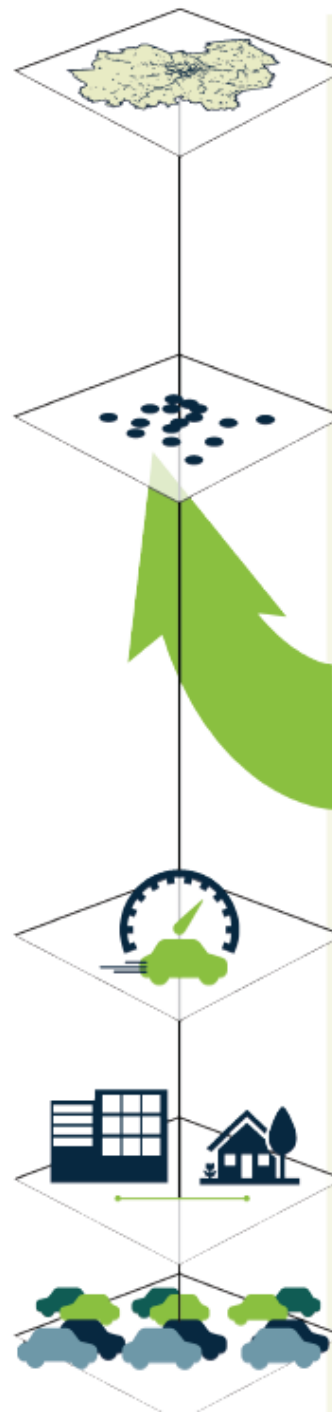
- 76% of fatal and serious injury crashes
- 39% of fatal and serious injury crashes at intersections
- 16% of fatal and injury crashes
- 89% of fatal and injury crashes at intersections



Risk Analysis

Components of Risk

- Likelihood
- Severity
- Context



Lane Departure



Intersections



Bike/Pedestrians
at Intersections



Bike



Speed



Pedestrian



Motorcycle

Likelihood

Severity (Speed)

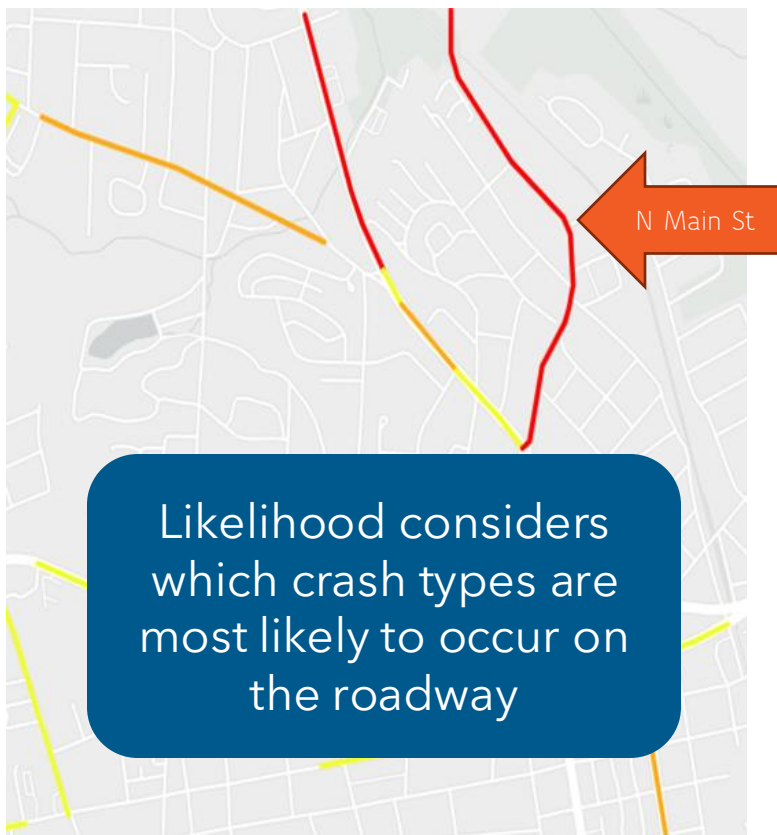
Context

Exposure (Traffic Volume)

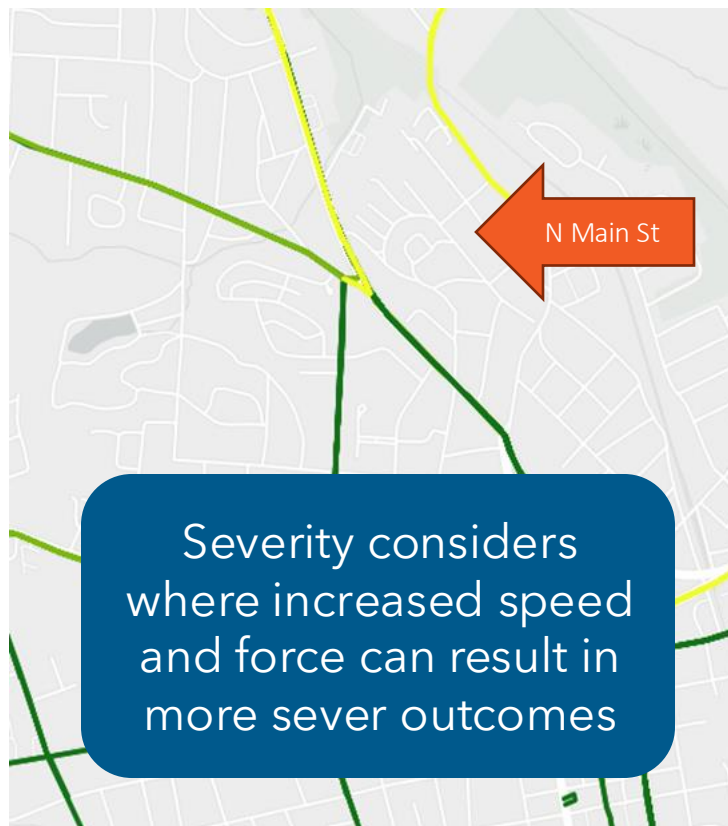
Risk Analysis

Likelihood (Risk)

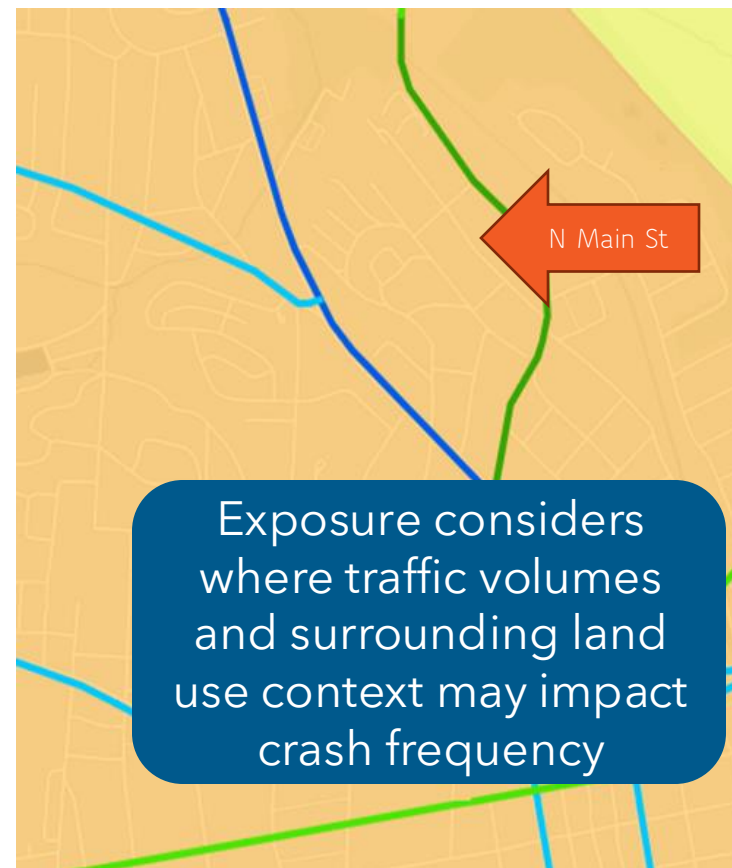
(Ex: Bicyclist Crash Risk Analysis)

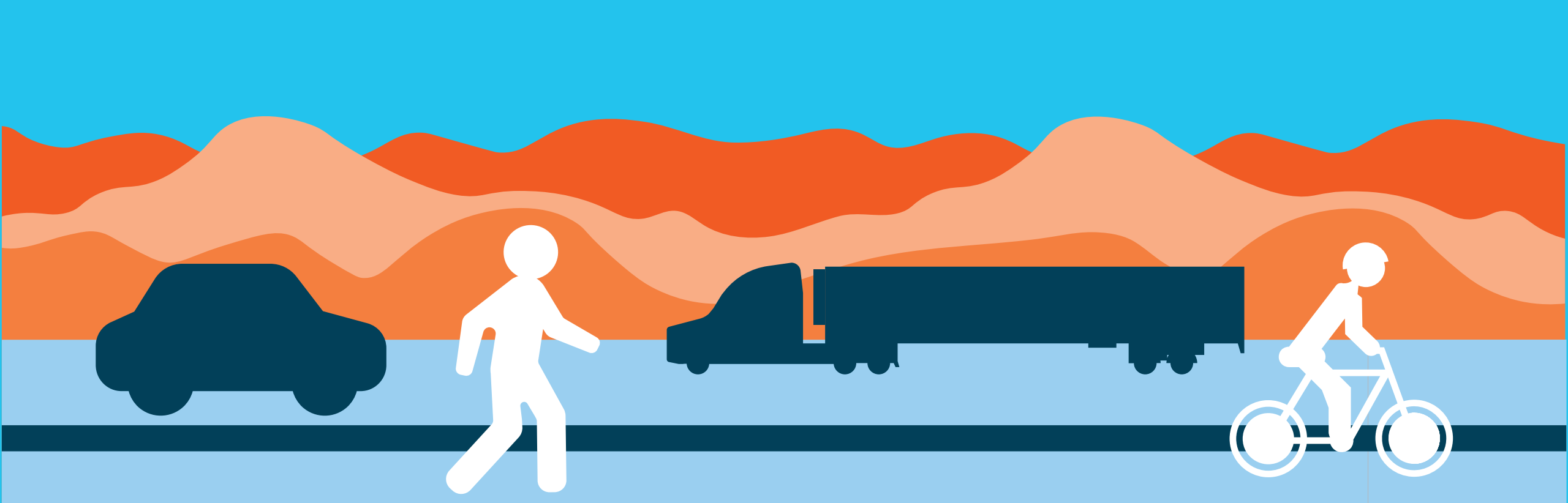


Severity (Speed)



Exposure (Context and Volume)





Safety Plan Tools and Products

Summary Report (In Progress)

Safety Planning and Programs in WNC

- *Safe System Approach*
- *Plan and Policy Review*
- *Statewide Safety Programs*

Safety Analysis

- *Regional Safety Trends*
- *Crash Analysis: Focus Crash Types and Focus Facility Types*
- *Safety Data: High Injury Network and High-Risk Areas*
- *Population Analysis: Communities and Crash Disparities*

Stakeholder and Public Engagement

- *Engagement Activities*
- *Engagement Outcomes*

Crash Reduction Framework

- *Goals*
- *Strategies*
- *Performance Measures*
- *Implementation Leads and Partners*
- *Timelines*

Tools for Incorporating Safety in All Projects

- *Project Scoping Process*
- *Countermeasure Toolbox*
- *Safety in Plans, Programs and Policies*
- *Implementation Approaches*
- *Project Funding*

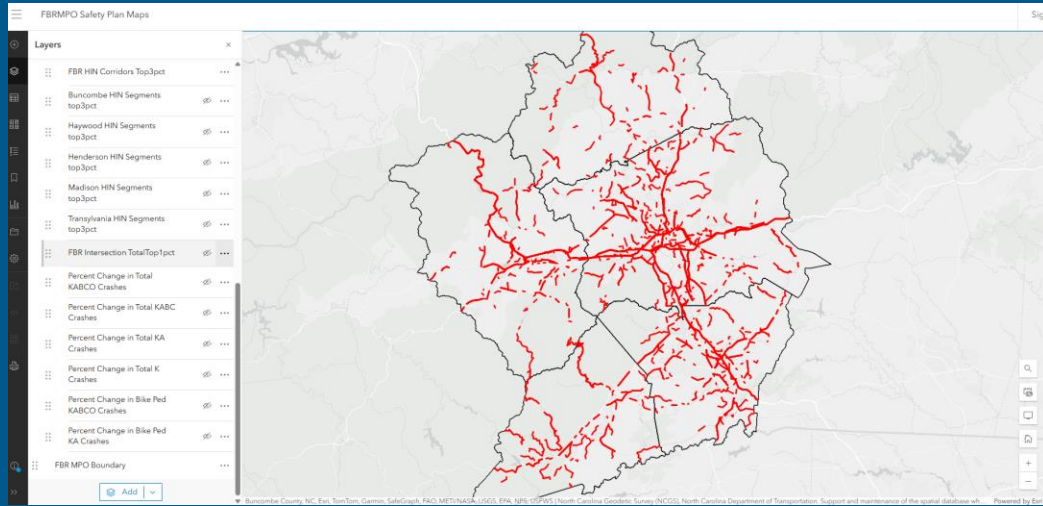
Evaluating and Updating Safe Streets for WNC

- *Crash Risk Modeling and Project Prioritization*
- *Project Evaluation*
- *Monitoring and Reporting Progress*

Appendix

- *Annual Report Template*
- *Countermeasure Toolkit*
- *Data (metadata, terminology)*

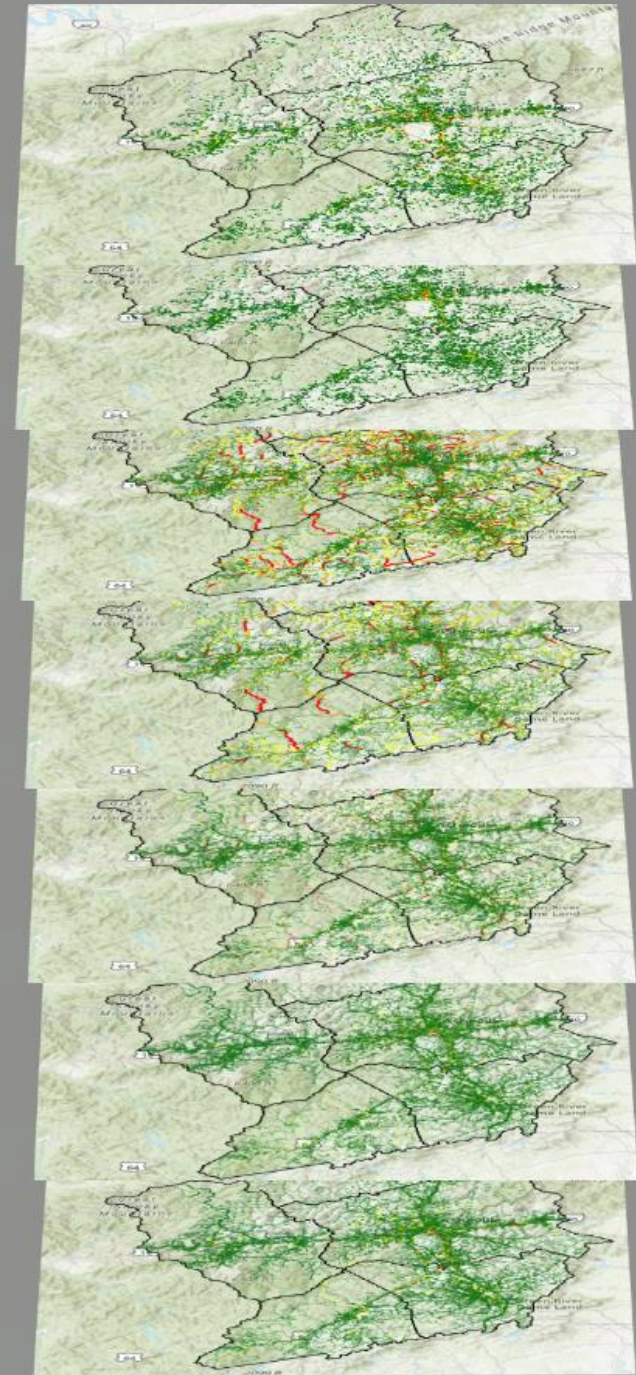




Online Web Mapping

<https://vhb.maps.arcgis.com/apps/mapviewer/index.html?webmap=ac33528411f04bffa64e482b696f374>

- Intersection
- Intersection Bike/Ped
- Lane Departure
- Motorcycle
- Speed
- Bike
- Ped





SAFETY COUNTERMEASURE LIBRARY



CONTENTS



Animal 4

Animal Crossing 4



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HOW TO USE THIS DOCUMENT

This resource is a compilation of selected countermeasures, organized by countermeasure types and associated crash types, for consideration as an engineering treatment. This document does not include non-engineering countermeasures or address crash types associated with human factors, such as impairment or use of seat belts. The primary resource consulted for this document is the North Carolina Project Development Crash Reduction Factor (CRF) Information ("NCDOT CRF List").

1

CRASH TYPE
NAME

COUNTERMEASURE TYPE
COUNTERMEASURE NAME

2

3

4

Specific Countermeasures	Urban or Rural	CRF %	Severity	Cost
5	6	7	8	9

GUIDANCE

10

Resource Link

1 Crash Type: Category of crashes, outlined as emphasis areas in the NC Strategic Highway Safety Plan (SHSP) - based on the first harmful event associated with a crash, such as a roadway element or mode of travel involved.

2 Countermeasure Type: Groups or sets of countermeasures broadly considered to address crash types.

3 Description of Countermeasure Type

4 Key Selection Factors: Highlights typical selection criteria - such as traffic volume, speed, number of lanes, and intersection configuration - used to determine the applicability of a countermeasure to a location.

5 Specific Countermeasures: An individual countermeasure and description of the applicable roadway element that has been studied for effectiveness to reduce crashes.

6 Location Type: Listed as "Urban", "Rural" or "All" depending on the context(s) in which the countermeasure is typically applied and/or studied for effectiveness to reduce crashes.

7 Crash Reduction Factor (CRF) Percentage: The percentage of expected crash reductions for a specific countermeasure based on research accepted for a treatment.

8 Severity: The severity of the injuries (as described in a crash report for the vehicles or persons involved) researched and described as crashes expected to be reduced by the specific countermeasure.

K = Fatality / A = Suspected Serious Injury
B = Suspected Minor Injury / C = Possible Injury

9 Cost: Relative cost to implement or construct a countermeasure. Costs increase (Low \$) / Medium \$\$ / High \$\$\$) based on factors such as project footprint, construction materials, and extent of analysis required.

10 Guidance: Resource links for additional information about conditions for safety implementation; does not include guidance for the design of specific treatments, typical sections or details.





CRASH TYPE BICYCLE

COUNTERMEASURE TYPE BIKEWAYS

Bicycle-related crashes involve a bicyclist or pedalcyclist struck by a motor vehicle. Bikeways are dedicated networks along the roadway for persons traveling by bicycle or roads where bicyclists are a prioritized mode of travel.

KEY SELECTION FACTORS

Consider a designated bike lane for roads with traffic speeds above 30 miles per hour or where traffic volumes exceed 3,000 vehicles per day. Review for additional separation using buffer markings or vertical separation for roads with speeds above 35 miles per hour or volumes in excess of 6,000 vehicles per day.

Specific Countermeasures	Urban or Rural	CRF %	Severity	Cost
Install Bicycle Boulevard	Urban	63	All	\$\$\$
Install Buffered Bicycle Lane on 4-Lane Roadway	Urban	63	All	\$\$\$
Removing Parking Lanes from Sides of Roadway	Urban	37	K, A, B, C	\$\$\$
Install Buffered Bicycle Lane on 2-Lane Roadway	Urban	58	All	\$\$\$
Install Bicycle Lane on 2-Lane Roadway	Urban	45	All	\$\$\$
Install Bicycle Lane on 4-Lane Roadway	Urban	42	All	\$\$\$
Convert Traditional or Flush Buffered Bicycle Lane to Separated Bicycle Lane with Flexible Delineator Posts	Urban	53	All	\$\$
Install Separated Bicycle Lane on 2-Lane Roadway	Urban	47	All	\$\$
Install Separated Bicycle Lane on 4-Lane Roadway	Urban	41	All	\$\$

NCDOT GUIDANCE

Multimodal Guidance: Transportation Mobility and safety Division (2024)

SUPPLEMENTAL GUIDANCE

[FHWA, Bikeway Selection Guide \(2019\)](#)

[FHWA, Proven Safety Countermeasures: Bicycle Lanes \(2021\)](#)

[FHWA, Separated Bike Lane Planning and Design Guide \(2015\)](#)

[FHWA, Separated Bike Lanes on Higher Speed Roadways: A Toolkit and Guide \(2024\)](#)



Countermeasure Library



NORTH CAROLINA
Department of Transportation

Guidance for Multimodal Safety Improvements and Traffic Control Devices



Pedestrian



Bicycle



Transit



Bicycle

Bikeway Networks



Bike Lane



Buffered
Bike Lane



Separated Bike
Lane



Shared-Use Path

Other Treatments



Shared Lane
Markings



Contraflow Lane
("Counter-Flow")



Climbing Lane



Bicycle Signage

Intersection-Related



Bicycle Box



Two-Stage
Turn Box



Bicycle
Detection

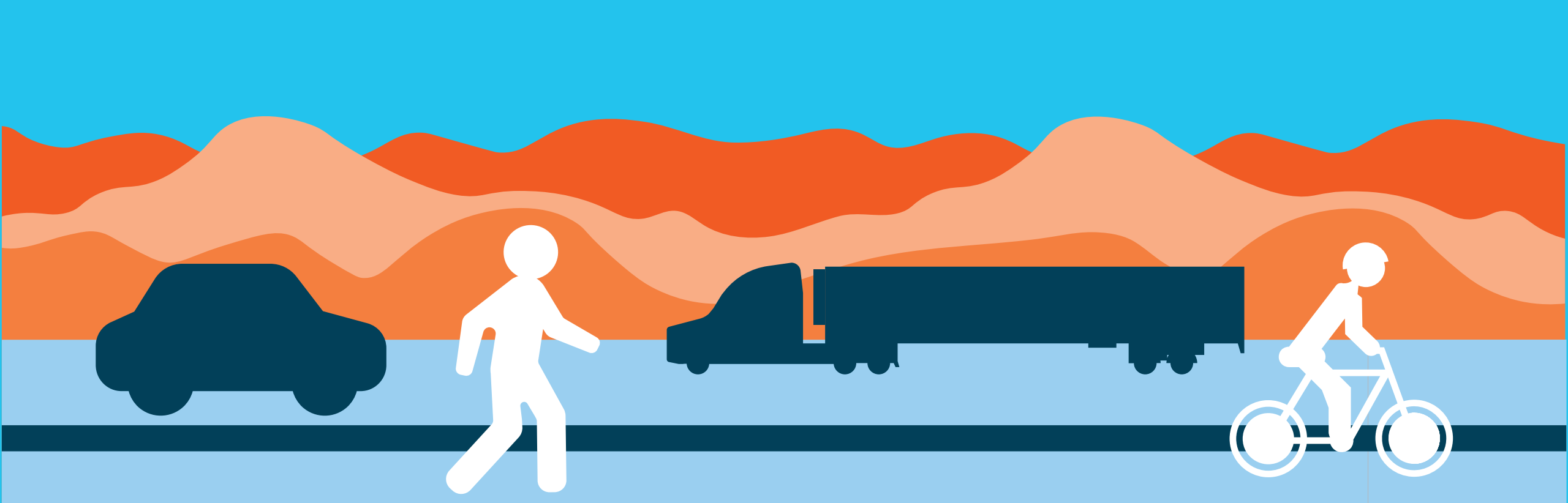


Bicycle Signals



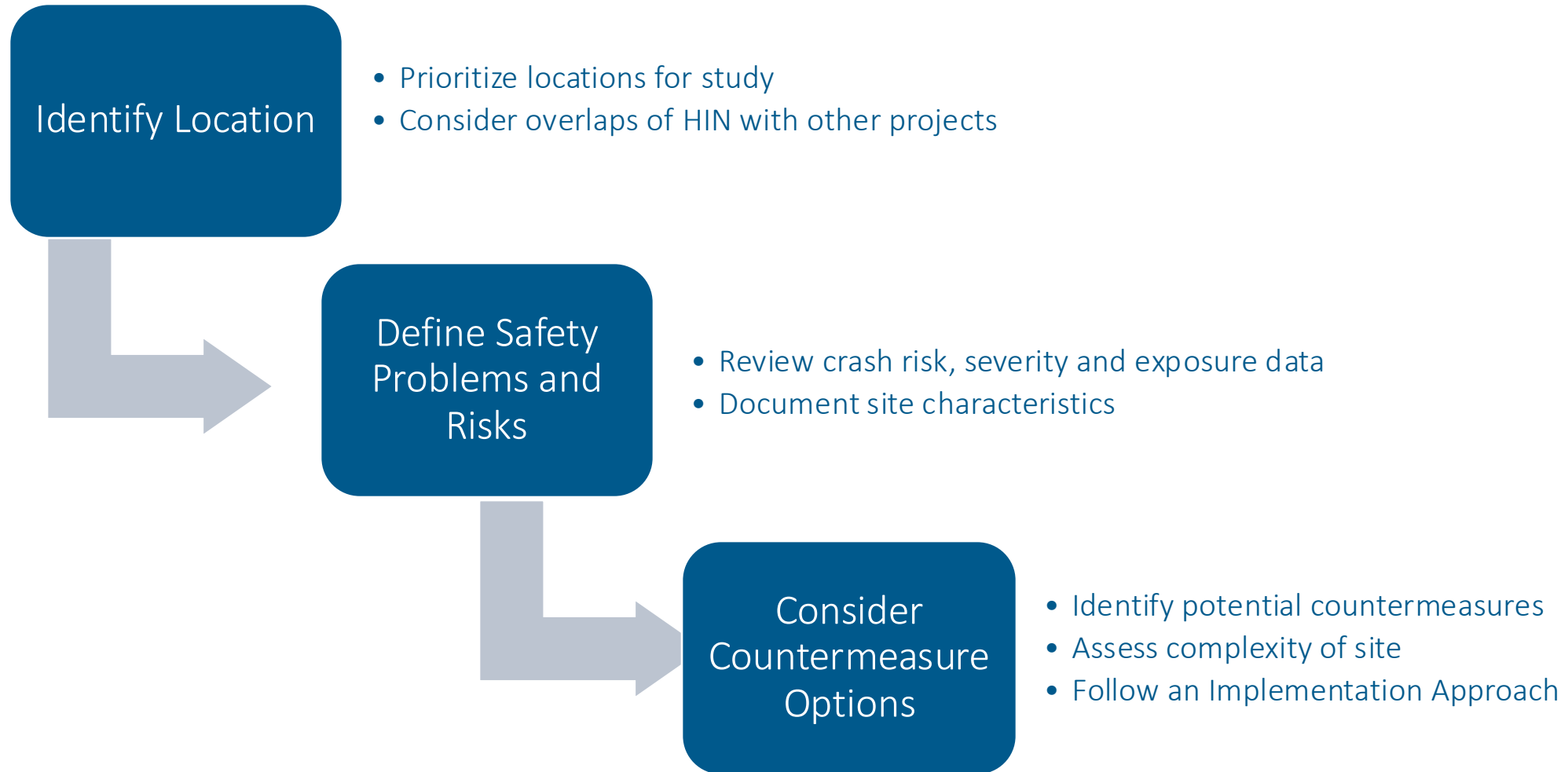
Protected
Intersection





Group Exercise

Safety Scoping Process



Safety Scoping Worksheet

Understanding the Data:

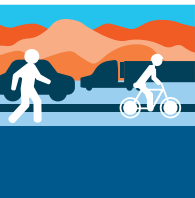
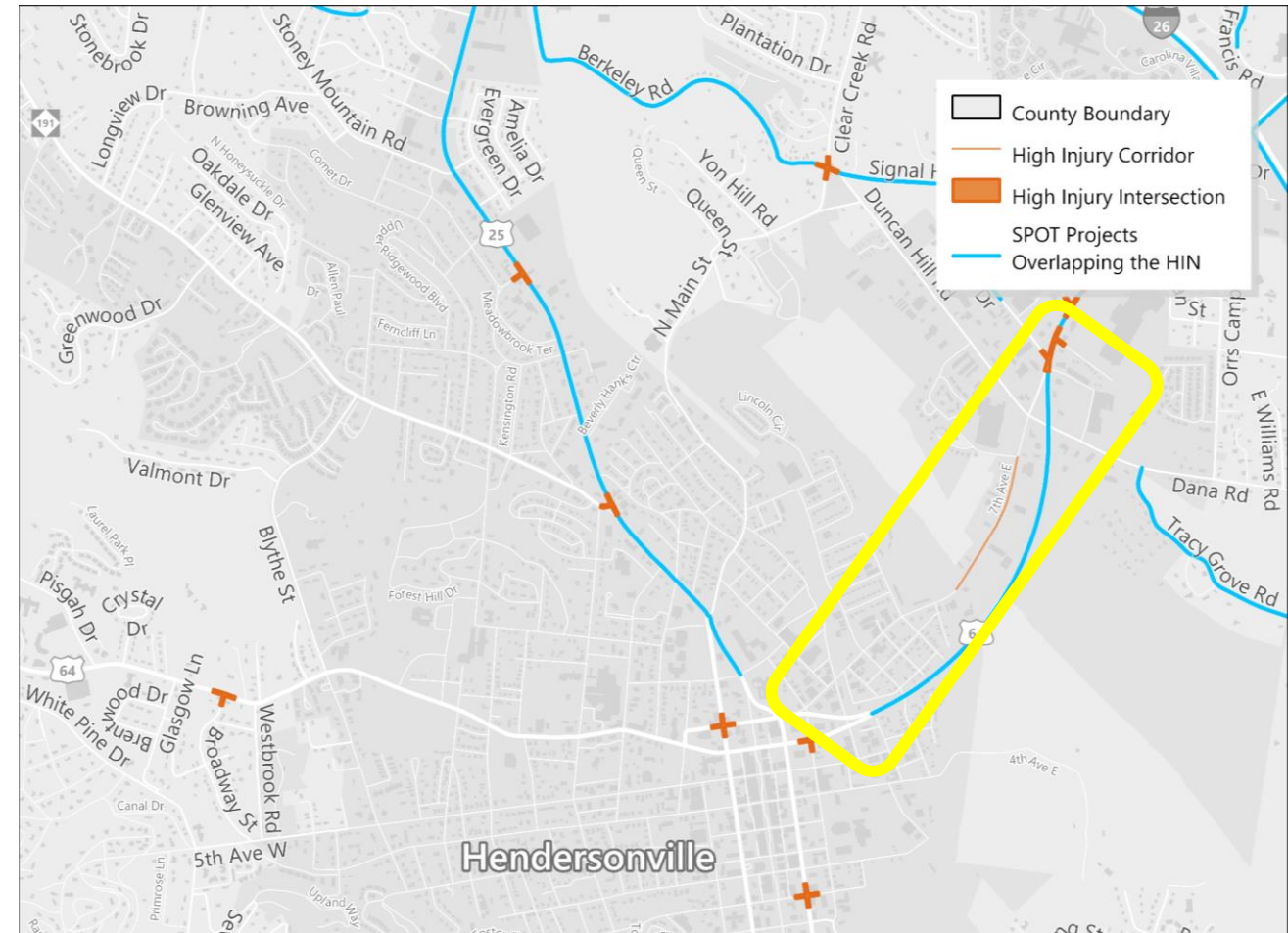
- ☐ Crash history (HIN)
- ☐ Street characteristics
- ☐ Mobility infrastructure
- ☐ Context
- ☐ Risk

Location Characteristics	Existing Conditions
High Injury Network	Type of HIN (See HIN maps)
Lane or Intersection Configuration	Number of Lanes at Segment or by Approach to Intersection (Review aerial imagery or visit site)
Traffic Volumes	Annual Average Daily Traffic (AADT) (See Exposure maps)
Speeds (Observed or Posted)	Posted or observed speeds as Miles Per Hour (See Severity maps for observed 85th weekday speeds)
Pedestrian Facilities	Sidewalk present?
Bicycle Facilities	Designated bike lanes or separated path present?
Transit Facilities	Bus stops or shelters present?
Land Use Context	Urban Core, Urban, Suburban, Rural Town or Rural (See Block Group Classifications – Context maps)
Access Management	Center median or restricted turning movements?
High Crash Risk Types	<ul style="list-style-type: none"> » Intersection » Intersection: Bike-Ped » Bicycle » Pedestrian » Lane Departure » Motorcycle » Speed-Related



Hendersonville: US 64 (US 25 – Four Seasons Blvd)

Location Characteristics	Existing Conditions/ Analysis Output
HIN Location Type	HIN (all crashes)
Lane or Intersection Configuration	4-Lane
Traffic Volumes	26,000 vpd
Posted Speed	45 mph
Speed – 85 th Percentile Weekday	41 mph
Pedestrian Facilities	Yes
Bicycle Facilities	No
Transit Facilities	Yes
Land Use Context	Urban-Suburban
Access Management	Undivided
High Risk Crash Types	Speed, Lane Departure. Pedestrian, Motorcycle, Intersection

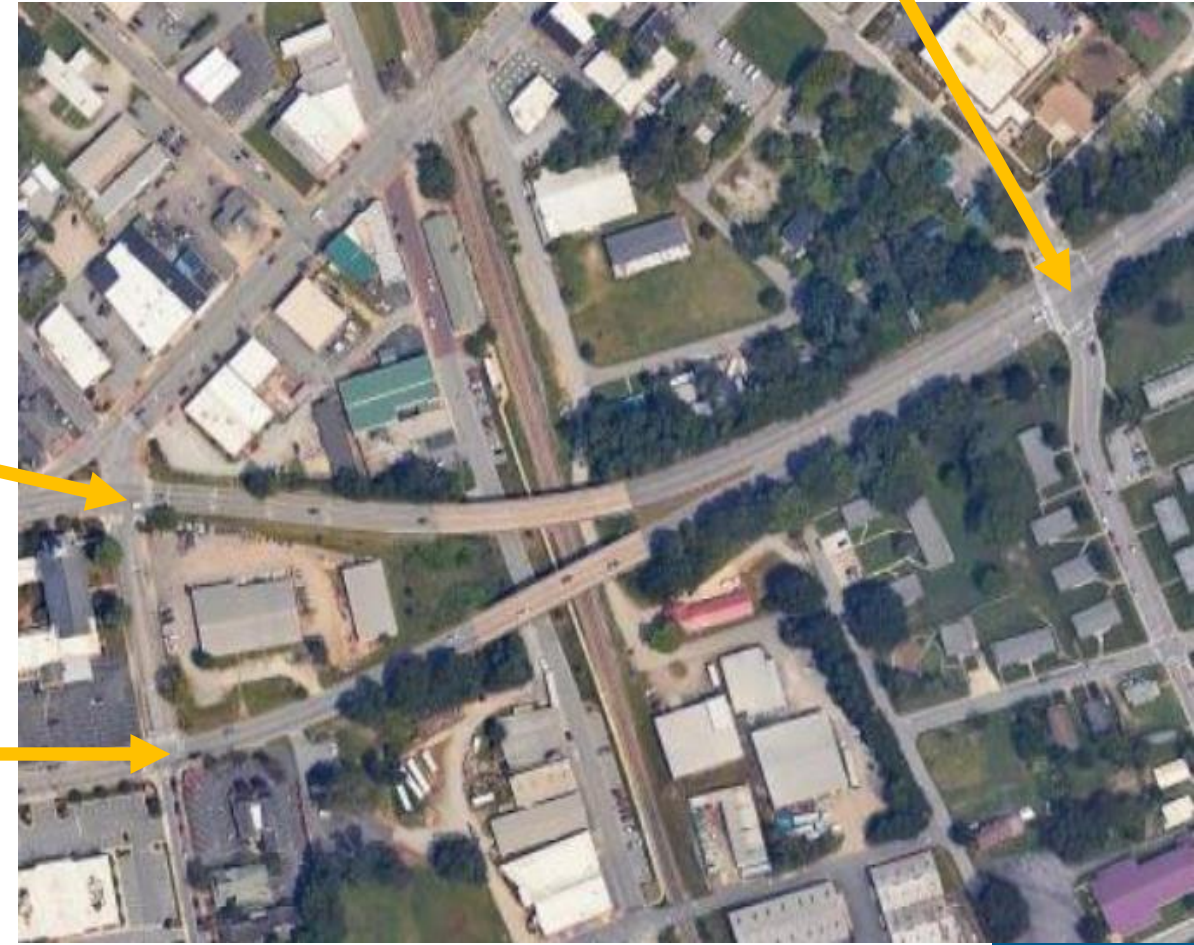


Hendersonville: US 64 (US 25 – Four Seasons Blvd)

Implementation Approach: Road Safety Audit

Potential Countermeasures

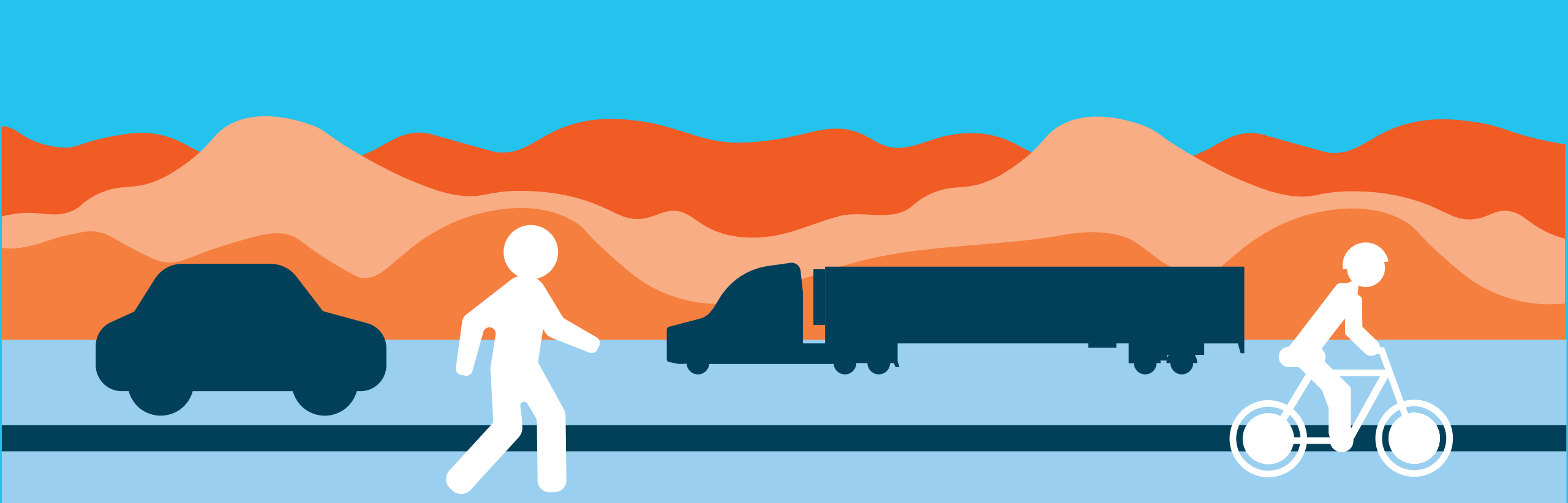
- Signal Modifications
- New Pedestrian Crossings
- Median
- Sidewalk



Small Group Discussion

- Review the project location map, context packet, online maps/images
- Based on the information provided, what are the safety issues at this location? What is the data telling you?
- What improvements would you consider based on data and observations?





Public Engagement

Review & Efforts

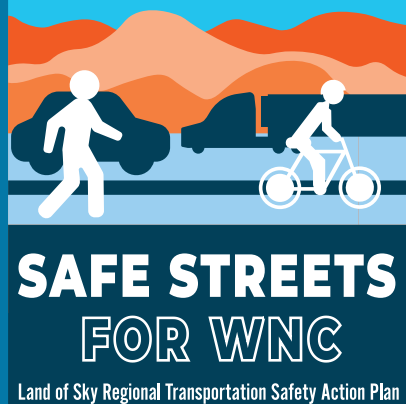
Public Engagement Approach (Post-Helene)



COMMUNITY LEADERSHIP

- ✓ Technical Steering Committee Meetings (3 of 3)

Leadership Summits
(1 of 2)



PROMOTIONS

- ✓ Project Brand
- ✓ Website / Updates
- ✓ Promotional Materials



COMMUNITY OUTREACH

- ✓ Focus Groups (3)
- ✓ In-Person Outreach Events (3)
- ✓ Webinars (2)
- ✓ Online Survey (1)

COMMUNITY ENGAGEMENT

Over 200+ People Engaged



Meetings with the Steering Committee



In-Person Drop-In Event

DOCUMENTATION

- ✓ Community Engagement Plan – Continually

Community Engagement Summary

Joint Public Meetings w/ MTP



4/7/25
Hendersonville



4/9/25
Canton

4/10/25
Asheville

Community Engagement for Safe Streets for WNC + Elevate 2050

Safe Streets for WNC
Interested in learning about roadway safety in WNC? Have thoughts or ideas to share about traffic, taking the bus, walking, or biking? Help us develop Safe Streets for WNC, a new plan to improve roadway safety in the region.

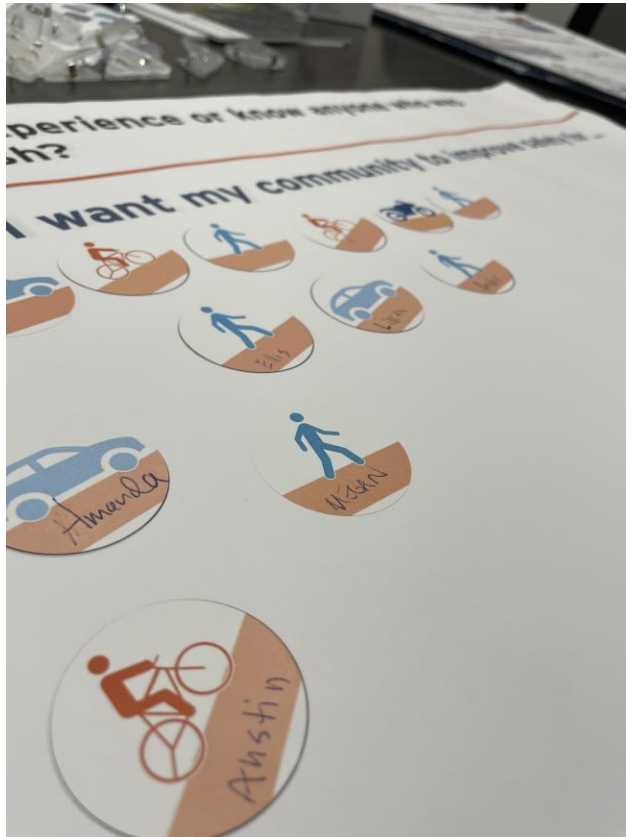
Elevate 2050
Provide feedback on the draft project list and scoring approach for projects. Help us improve all types of transportation in the Asheville region for the next 25 years!

In-Person Meetings

- Monday, April 7th**
3-6PM
Henderson County Library
- Wednesday, April 9th**
3-6PM
Canton Public Library
- Thursday, April 10th**
3-6PM
East Asheville Public Library



Joint Public Meetings w/ MTP



The NUMBER ONE thing I want...

My Community to Commit to:

Keeping vehicles in the lane

Reducing conflicts at intersections

Improving routes and crossings for people walking and biking

Improving conditions for people who use motorcycles

Slowing vehicle speeds

Better street lighting

Improving conditions on rural roads

To Commit to my Community:

Drive the speed limit to ensure everyone's safety

Set a positive example for children and young people in our community

Watch out for people walking, people biking, and people using motorcycles

Avoid distractions like using my phone while driving

Never drive under the influence to keep our roads safe


Engaged with 47 people in three communities.




Webinars

Partner Webinar

April 1, 2025




Land of Sky Regional Transportation Safety Action Plan




SAFE STREETS FOR WNC

Land of Sky Regional Transportation Safety Action Plan



2025-04-01 11:54:49



Chat Messages

Search chat

when we get to the Q&A / Discussion questions!

Jacqui 24:27

J

Will the power point be available to attendees after the presentation?

Hannah Bagli 25:54

HB

Yes, we will post it on the project webpage!
<https://frenchbroadrivermpo.org/safe-streets-for-wnc-regional-safety-action-plan/>

Rachael Bronson 51:05



Focus Groups



Event Name	Date	Takeaways/Ideas	Attendees
Post-Crash Care	8/5/24	Education campaigns; whole blood administration; rapid tow; speed control.	Highway patrol, police, emergency services.
Safer People	8/13/24	Targeted outreach; drivers ed; funding for promotion and marketing; media training.	Communications staff, public health, drivers ed, safe routes to schools.
Safer Speeds / Safer Roads	8/19/24	Road diets; Secondary Road Safety Program; speed management tools; NCDOT policies; land use and development.	Planning, engineering, public works.



Project Website

<https://frenchbroadrivermpo.org/safe-streets-for-wnc-regional-safety-action-plan/>

Safe Streets for WNC – Regional Safety Action Plan

Home / Safe Streets for WNC – Regional Safety Action Plan

What is Safe Streets for WNC?



The French Broad River MPO and Land of Sky RPO are excited to introduce The Safe Streets for WNC Safety Action Plan. The plan is a comprehensive initiative dedicated to creating safer and more accessible roadways for everyone. Funded through the Safe Streets for All grant program through the IIJA Infrastructure Bill, the plan focuses on reducing roadway crashes, improving pedestrian and cycling infrastructure, and promoting responsible driving habits. By using the [Safe Systems Approach](#), we aim to create innovative roadway design solutions, and foster community engagement. The plan

aims to make our streets safer, more inclusive, and conducive to healthy, active lifestyles. Join us in transforming our region into a place where everyone can navigate safely and confidently.

Countermeasure Visualizations

- <https://storymaps.arcgis.com/stories/09460cffd47e451dafd21b5d48c7394e>

What's the Problem? What are the Potential Safety Solutions?

This online resource describes some priority safety problems facing the five-county region and potential strategies for improving safety.

The screenshot displays a StoryMap interface. At the top, a navigation bar includes links: Introduction, Pedestrian, Bicyclist, Speed, Intersection, Lane Departure, Take the Survey!, and Contact Info & Glossary. The main content area features a 3D perspective view of a five-lane urban road with cars. An orange text box overlaid on the road states: "This five-lane urban roadway lacks places for people to walk alongside the road, cross the road, and be seen in dark conditions. All these factors contribute to pedestrian safety concerns." To the right, a sidebar titled "Pedestrian" shows a progress bar and statistics: "47 Fatal and 38 Serious Injury crashes in the 5-county region from 2018-2023." Below this is a "GLOSSARY" section titled "Pedestrian Countermeasures" which lists four items with corresponding images and descriptions:

Countermeasure	Description
 Sidewalk	A paved path alongside roads for pedestrian use, enhancing their safety by separating them from vehicular traffic.
 High Visibility Crosswalks and Signs	Crosswalks and accompanying signage designed with bright, reflective materials to make them more noticeable to drivers, improving pedestrian safety.
 Street Lighting at Crossings	Improved lighting at pedestrian crossings to increase visibility for both pedestrians and drivers, reducing the likelihood of nighttime accidents.
 Pedestrian Countdown Signal Heads	Traffic signals that display a "WALK" symbol and a countdown timer to inform pedestrians of the remaining time to safely cross the street.

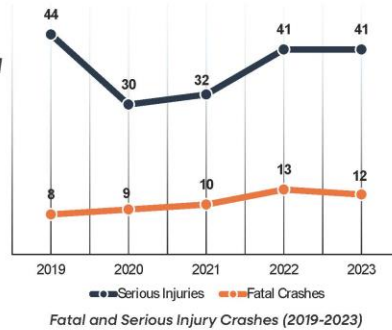
County Fact Sheets

Haywood County Transportation Safety Action Plan Fact Sheet



DID YOU KNOW THAT BETWEEN 2019 AND 2023 IN HAYWOOD COUNTY,

there has been **7,461** reported crashes occurred on local and state roadways. Of those crashes, **more than 230 people** were killed or seriously injured.



INTERSTATES, U.S., AND N.C. ROUTES

Interstates, US routes, and NC routes represent about **8%** of the roadway network in Haywood County, but **more than 69%** of fatal and serious crashes occurred on these roads

MOST DEATHS AND SERIOUS INJURIES CAN BE PREVENTED IF WE FOCUS ON ...

- Keeping vehicles in the lane
- Decreasing drug and alcohol impairment
- Motorcycle crashes
- Using seat belts and child car seats
- Improving routes and crossings for pedestrians, bicyclists and motorcyclists
- Slowing vehicle speeds

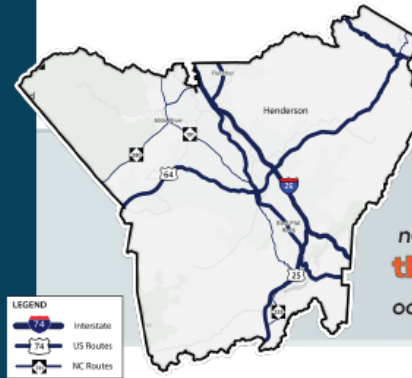
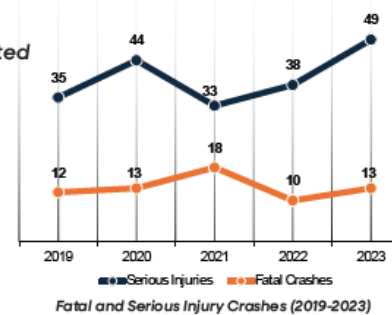


Henderson County Transportation Safety Action Plan Fact Sheet



DID YOU KNOW THAT BETWEEN 2019 AND 2023 IN HENDERSON COUNTY,

there has been **15,583** reported crashes occurred on local and state roadways. Of those crashes, **more than 260 people** were killed or seriously injured.



INTERSTATES, U.S., AND N.C. ROUTES

Interstates, US routes, and NC routes represent about **6%** of the roadway network in Henderson County, but **more than 50%** of fatal and serious crashes occurred on these roads

MOST DEATHS AND SERIOUS INJURIES CAN BE PREVENTED IF WE FOCUS ON ...

- Keeping vehicles in the lane
- Decreasing drug and alcohol impairment
- Motorcycle crashes
- Using seat belts and child car seats
- Improving routes and crossings for pedestrians, bicyclists and motorcyclists
- Slowing vehicle speeds



Online Survey

- March 6 - April 21
(Launched September 2024)
- People who took the survey:
 - 162 total
 - 65% between 36 – 65 years old
 - 19.5% identify as non-white

Q13 What is your home zip code?

28803 28715 28759 28716 28806 28804 28792 28753
28739 28729 28712 28754 28791 28801

- Hendersonville, Laurel Park,
Brevard, Asheville

Online Survey and Interactive Site

Take our Survey Below!



Roadway Safety Community Survey

1. On a scale of 1 to 5, how important is roadway safety to you?

(Use the slider to select your choice)

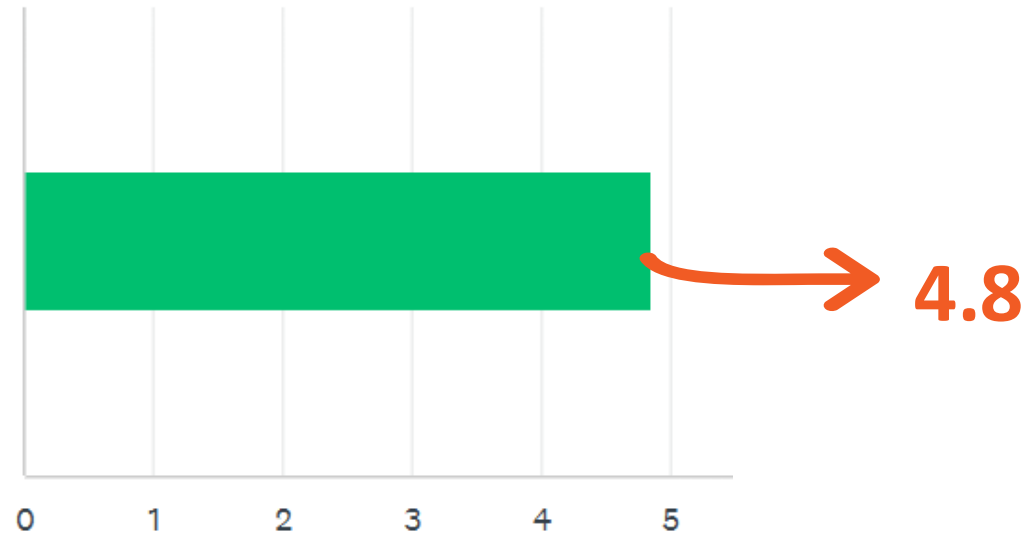
1 (Not Important) 5 (Extremely Important)

2. Below is a list of potential safety issues that relate to **driving conditions** in our region. Please rank how you perceive each issue.

(Move each option to your preferred rank or assign a number using the drop-down menu)



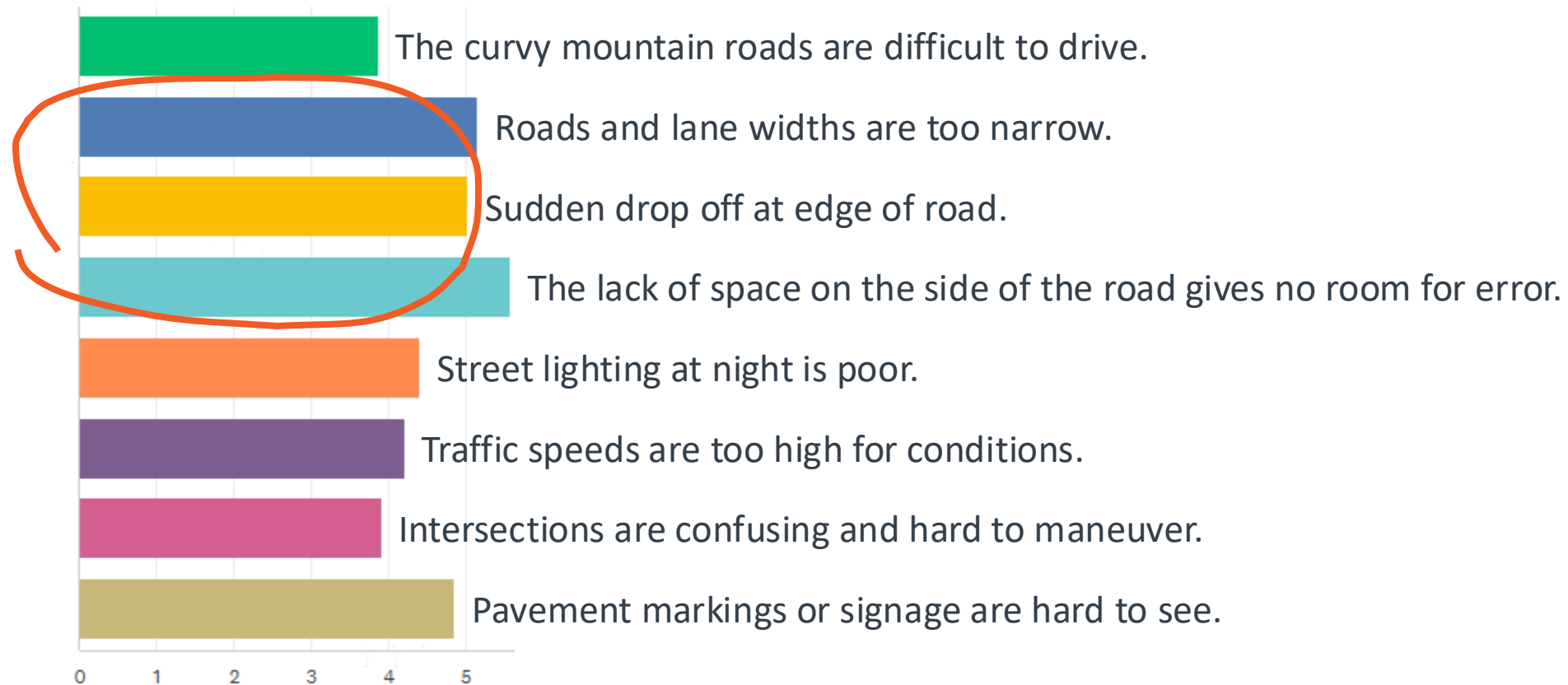
“On a scale of 1 to 5, how important is roadway safety to you?”



This is important.



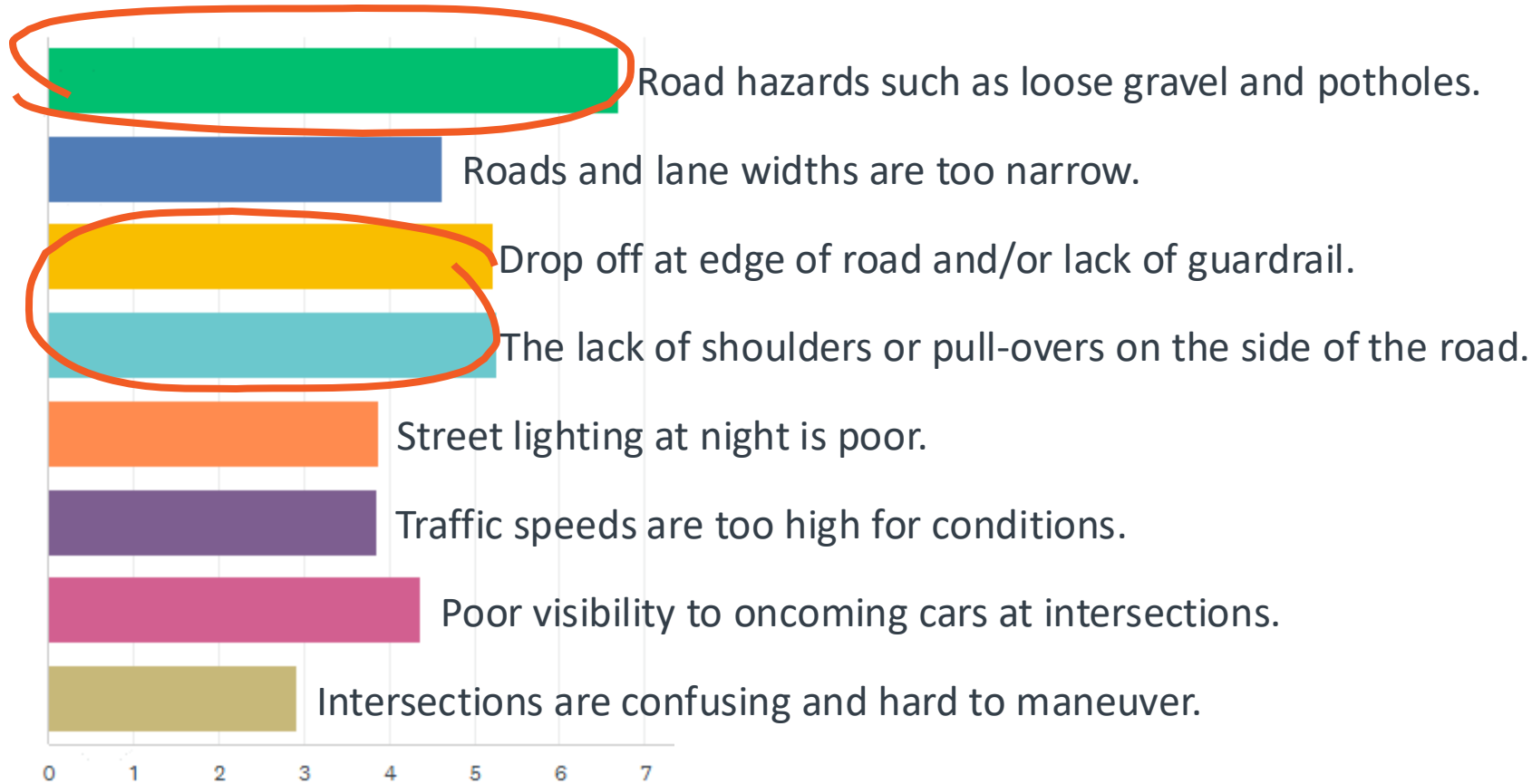
“Driving conditions: rank how you perceive each issue.”



Discomfort driving in space provided.



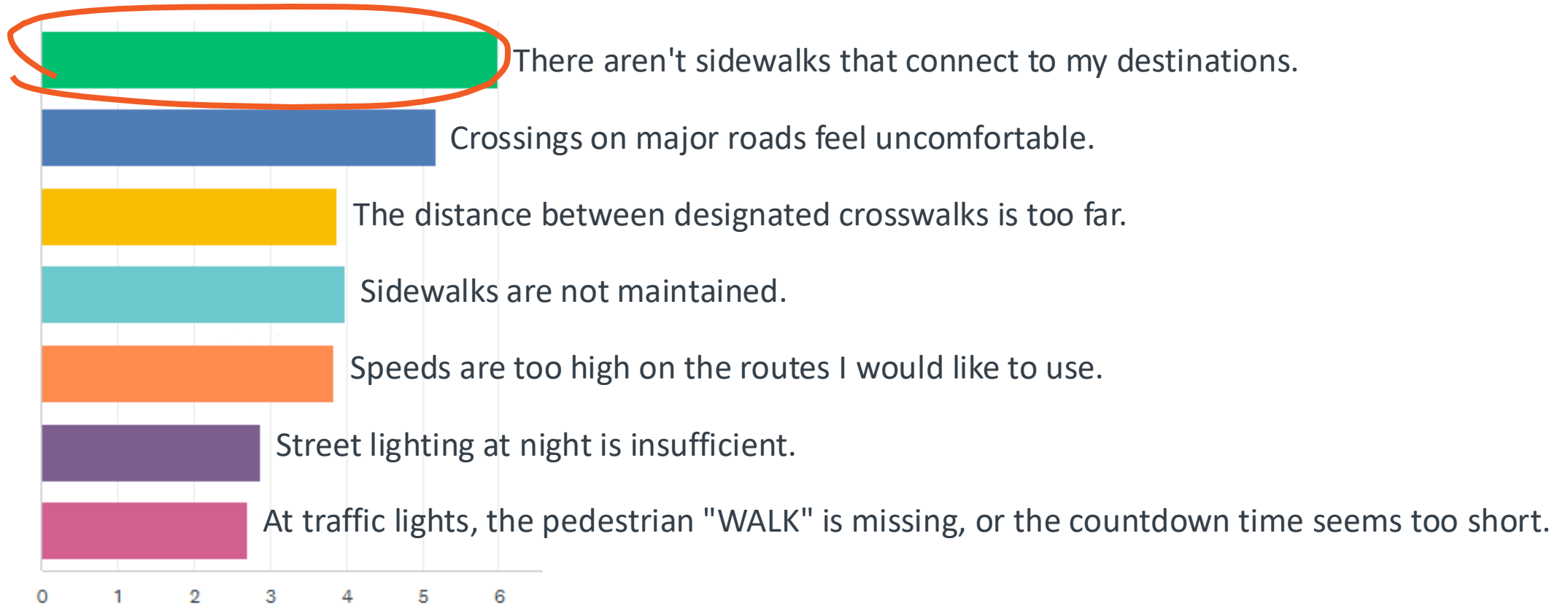
“Motorcycle conditions: rank how you perceive each issue.”



Discomfort riding in space provided and on road surface.



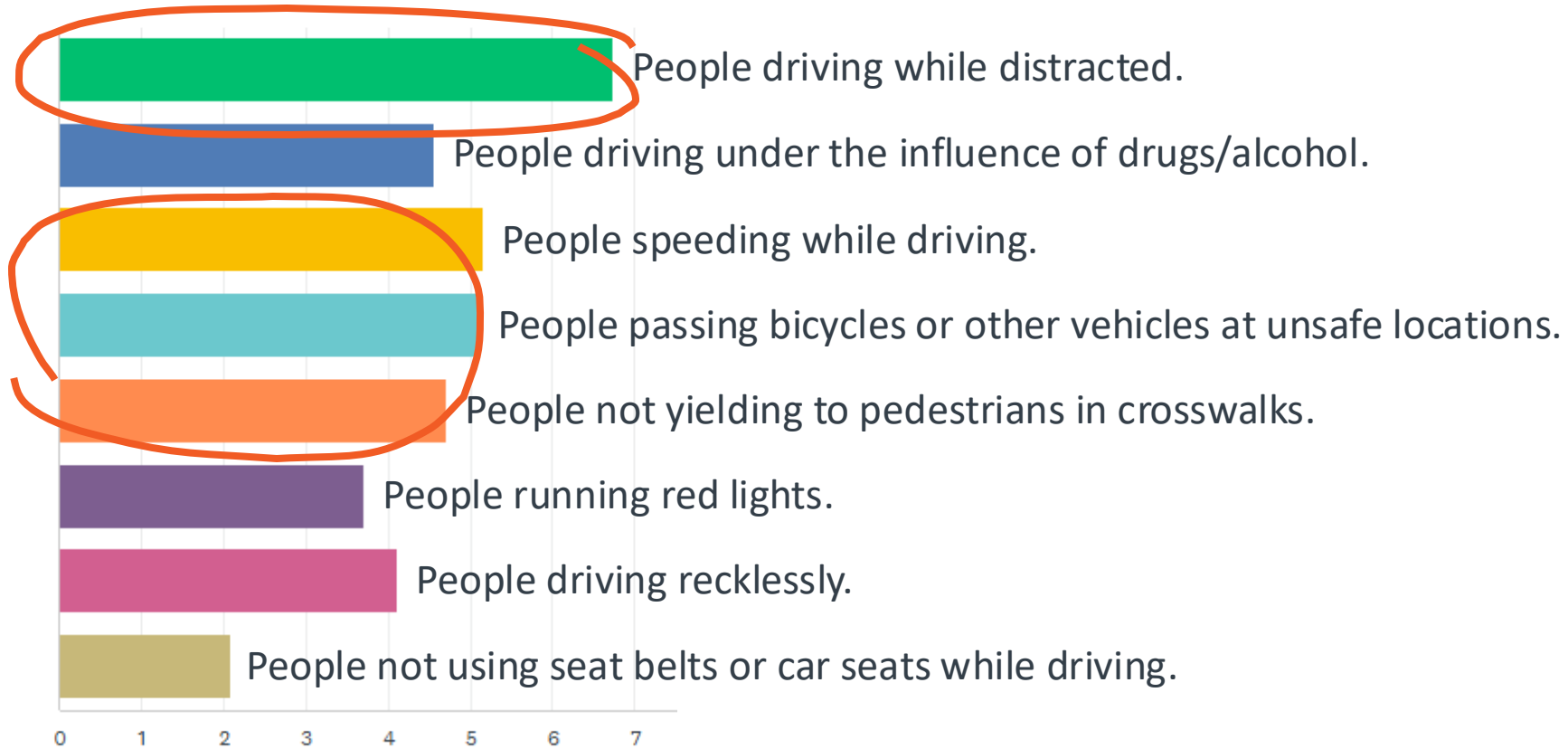
“Walking/wheeling/running conditions: rank how you perceive each issue.”



Lack of sidewalks is of most concern to people walking & biking.












“Driving behavior: rank how you perceive each issue.”



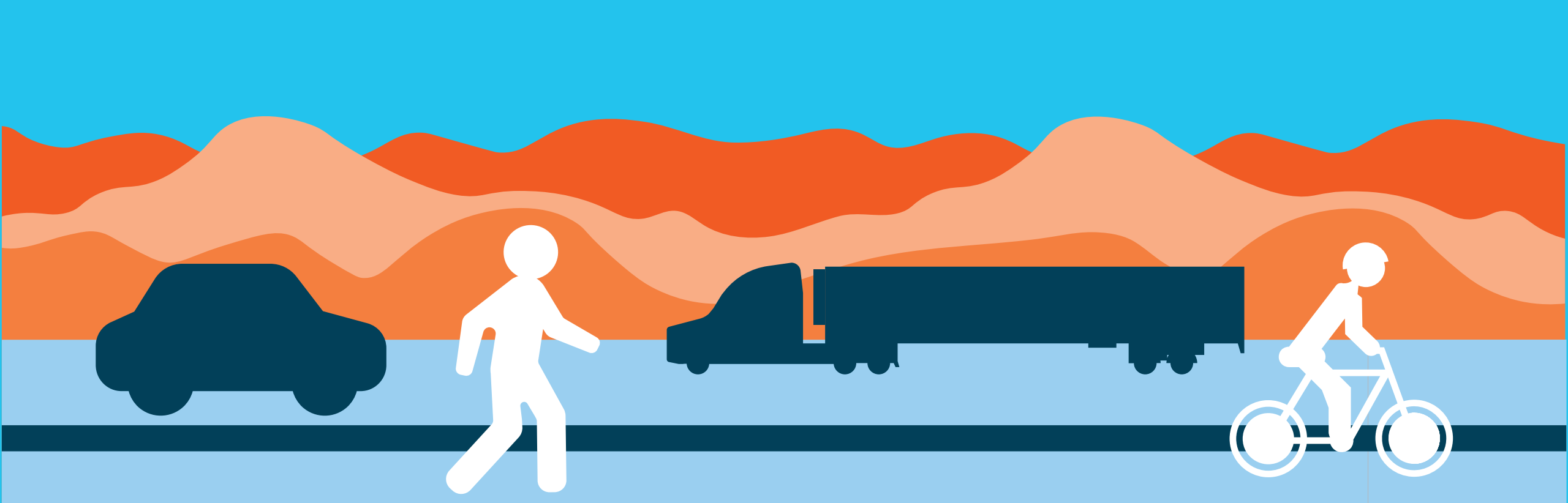
Concerns about distraction, speeding, and sharing the road with others.



Desired safety improvements

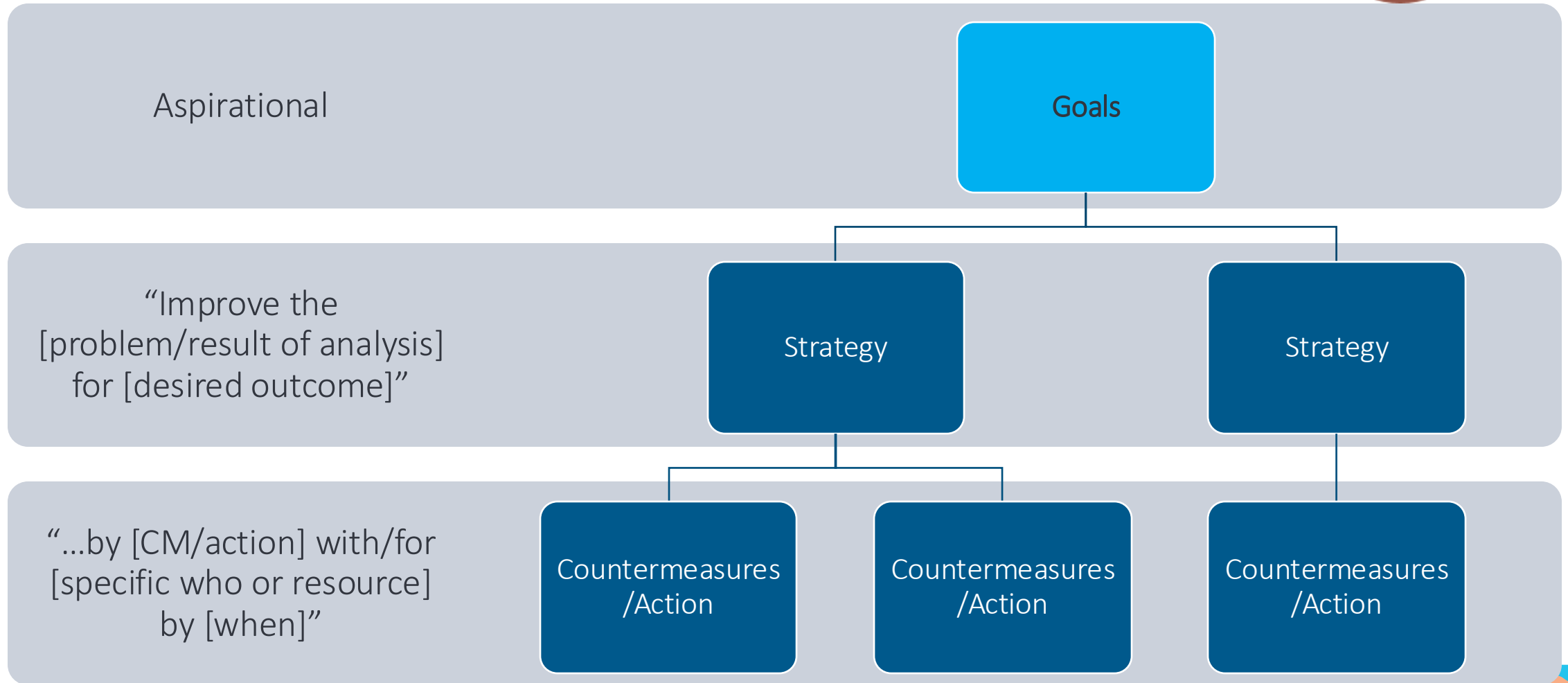
Mode	Improvement Desired	Rank
Driving/Motorcycling	 Roundabouts.	81
	 Improved pavement surfaces for people driving and on motorcycles.	79
	 Protected turning movements at traffic lights.	67
Walking/Rolling	 Sidewalks.	126
	 Median refuge islands.	61
	 High visibility crosswalks and signs.	58
Biking	 Off-road greenways or separated bike lanes.	125
	 Bike lanes.	11
	 High visibility paint on roadway surfaces including colored paint in bike lanes.	64





Goals and Strategies

Strategic Framework



Safe Streets for WNC Goal



The region will achieve a 10% reduction in fatal and serious injury crashes by 2035, an additional 45% reduction by 2045, and move toward zero fatalities and serious injuries by 2050.

Safe Streets for WNC Draft Goals

- FBRMPO and LOSRPO and its members will integrate the Safe System Approach into all policies and programs for a more consistent application of safety into plans and projects.
- FBRMPO and LOSRPO and its members will incorporate safety into development and disaster recovery projects, to mitigate affects of rapid growth on traffic safety.
- FBRMPO and LOSRPO and its members will address severe speed related crashes through context-based speed management and traffic calming.
- Local leaders will increase commitment to a regional culture of safety by partnering with media, educating elected officials and improving communication with NCDOT.
- FBRMPO and LOSRPO and its members will leverage the capacity of funds for implementing safety projects through staff training, corridor safety assessments, and enhanced project delivery.
- Regional partners will increase awareness of risks and potential strategies to improve safety for focus populations and vulnerable road users.

Your Turn!

What do we want to start within the next 5 years?

- What strategies are of highest priority for you and your organization?
- What strategies can make the biggest impact on safety?
- Which strategies will you help implement?



Call to Action

- ❑ Champion the Safe Streets for WNC Plan
 - Develop a local safety plan
 - Adopt a local Vision Zero (or similar) goal
 - Endorse or adopt the plan
 - File a resolution of support
- ❑ Adopt safety policies and programs at the local level
- ❑ Prioritize safety in existing projects
- ❑ Coordinate with NCDOT and other partners to identify solutions
- ❑ Communicate value of safety in your personal and professional networks



What's Next

June 13 – Draft Plan Submittal

June 23 – Review Complete

July 14 – Final Plan posted to SS for WNC webpage

August 14 – FBRMPO and LOSRPO TCC meetings

August 21 – FBRMPO and LOSRPO TAC meetings and adoption

Questions?



Stay Connected

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Thank you