



**TRIANGLE WEST**  
Transportation Planning Organization

March 2025 DRAFT

# **Triangle West Transportation Planning Organization**

# **VISION ZERO PLAN**

# List of Abbreviations & Acronyms

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**FHWA:** Federal Highway Administration

**HIN:** High Injury Network

**KABCO:** Injury Severity Scale:

**K:** Fatal Injury

**A:** Suspected Serious Injury

**B:** Suspected Minor Injury

**C:** Possible Injury

**O:** No Apparent Injury

**KSI:** Killed or Serious Injury (K and A on KABCO scale also 1 and 2 on Injury scale)

**LPI:** Leading Pedestrian Interval

**NCDOT:** North Carolina Department of Transportation

**PCSi:** Proven Safety Countermeasure initiative

**PHB:** Pedestrian Hybrid Beacon

**RRFB:** Rectangular Rapid Flashing Beacon

**SAP:** Safety Action Plan

**SOV:** Single-Occupant Vehicle

**SRTS:** Safe Routes to School

**TDM:** Transportation Demand Management

**TWTP:** Triangle West Transportation Planning Organization

**USDOT:** United States Department of Transportation

**VMT:** Vehicle Miles Traveled

**VRU:** Vulnerable Road Users (includes Pedestrians, Bicyclists, or Motorcyclists)

# Acknowledgments

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# Table of Contents

---

<b>Executive Summary .....</b>	<b>x</b>
--------------------------------	----------

Sharing Responsibility for Vision Zero.....	58
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## **Roadway Safety Vision ..... 1**

What is a Vision Zero Plan? .....	2
-----------------------------------	---

## **Regional Crash Summary ... 5**

Crash Map .....	6
People Impacted by Crashes.....	6
High Injury Network .....	10
High Risk Network .....	13
Vulnerable Road Users.....	16

## **Engagement and Input..... 21**

Technical Advisory Committee (TAC) .....	22
Safety Summit.....	23
Open House .....	23
Local Events .....	24
Online Survey and Interactive Webmap.....	24

## **Focus Areas and Priority Projects .....27**

Proven Safety Countermeasures.....	28
Proactive Systemic Safety Countermeasures.....	30
Prioritization Criteria .....	31
Priority Projects.....	32

## **Strategies and Actions .....37**

Safety Action Strategies .....	39
How to Use the Action Item Tables.....	40

## **Metrics and Accountability 53**

Performance Metrics .....	54
Target Setting Framework .....	54
Annual Report .....	57

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# List of Figures

---

<b>Figure 1</b> Safe System Approach .....	3
<b>Figure 2</b> Safe System Approach Framework .....	3
<b>Figure 3</b> Crash Counts by Year .....	6
<b>Figure 4</b> Fatal and Serious Injury Crash Rates by Race/Ethnicity, Age, and Gender .....	8
<b>Figure 5</b> Fatal and Serious Injury Crash Rates by Race/Ethnicity, Age, and Gender .....	10
<b>Figure 6</b> Fatal and Serious Injuries Among Vulnerable Road Users (VRUs) .....	16
<b>Figure 7</b> Collaborative Technical Advisory Committee Meetings .....	22
<b>Figure 8</b> Pledge Wall.....	23

<b>Figure 9</b> Interactive Boards at Open House Event .....	23
<b>Figure 10</b> Local Events: Move-A-Bull City (top) & Safetoberfest (bottom).....	24
<b>Figure 11</b> Interactive Survey Webmap.....	25

# List of Tables

---

<b>Table 3</b> Regional Priority Corridors Overview .....	32
<b>Table 4</b> Regional Priority Intersections Overview .....	34
<b>Table 5</b> Roadway Safety Resources and Guidance: Actions & Implementation .....	41
<b>Table 6</b> Walking and Biking in Urban/ Downtown Contexts: Actions & Implementation .....	42
<b>Table 7</b> Multimodal Safety Along Multilane Arterials: Actions & Implementation.....	43
<b>Table 8</b> Rural High-Speed Corridors: Actions & Implementation .....	44
<b>Table 9</b> Safe Routes to School: Actions & Implementation .....	45
<b>Table 10</b> Traffic Calming on Local Streets: Actions & Implementation .....	46
<b>Table 11</b> Trail and Railroad Crossings: Actions & Implementation .....	47
<b>Table 12</b> Unsafe Intersections: Actions & Implementation .....	48
<b>Table 13</b> Behavior and Distraction: Actions & Implementation .....	49

<b>Table 14</b> Land Development Practices and Procedures: Actions & Implementation.....	50
<b>Table 15</b> Vulnerable Road Users at Night: Actions & Implementation .....	51
<b>Table 17</b> Annual and Five-Year Target Framework for Fatal Crashes.....	56
<b>Table 16</b> Annual and Five-Year Target Framework for Serious Injury Crashes .....	56

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# List of Maps

---

- Map 1** Regional Crash Map ..... 7
- Map 2** Demographic Analysis Results Map .. 9
- Map 3** Regional High Injury Network  
Corridors Map .....11
- Map 4** Regional High Injury Network  
Intersections Map ..... 12
- Map 5** Regional High Risk Network Segments  
Map..... 14
- Map 6** Regional High RiskbNetwork  
Intersections Map ..... 15
- Map 7** Bicycle & Pedestrian HIN Corridors  
Map..... 17
- Map 8** Bicycle & Pedestrian HIN Intersections  
Map..... 18
- Map 9** Regional Priority Corridors..... 33
- Map 10** Regional Priority Intersections ..... 35

# **Executive Summary**

**Roadway Safety Vision**

**Regional Crash Summary**

**Engagement and Input**

**Focus Areas and Priority Projects**

**Strategies and Actions**

**Metrics and Accountability**









# 101

## **Roadway Safety Vision**



# What is a Vision Zero Plan?

The Triangle West Transportation Planning Organization (TWTPO) Vision Zero Plan marks a critical and fundamental shift in the approach to roadway safety. For decades, our streets have prioritized convenience and speed over safety—moving cars as quickly as possible even as the number of roadway fatalities increased across the country and in our hometowns. Consistently, streets have been designed with the assumption that crashes are accidents—events that no one can predict or prevent—or they these numbers are just the cost for the system to function. While communities have grieved the loss of individual friends and family members, this traditional approach to transportation has accepted roadway fatalities as an unfortunate inevitability.

This Vision Zero Plan proclaims that nothing on our roadways is more important than human life and that everyone deserves to make it to their destination safely. It begins by believing that roadway deaths and serious injuries are preventable, and that the responsibility is on each of us to create safer streets for everyone that lives, works, and enjoys the region.

The TWTPO Vision Zero Plan takes a data-driven approach to focus infrastructure, design, policy, and programs around the goal of zero traffic fatalities or severe injuries, while increasing safe and healthy mobility for all community members.



The Triangle West TPO Vision Zero Plan sets a goal of eliminating fatal and serious injury crashes in the region by 2050 and reducing the number of fatal and serious injury crashes in half by 2035. Achieving this goal will require partnerships across the region and with NCDOT. Additionally, it requires a focus on addressing roadway safety at the system level, with daily choices, policy changes, and projects that make a real impact.





**FIGURE 2** Safe System Approach Framework





**FIGURE 1** Safe System Approach





# 102

## **Regional Crash Summary**



# Crash Map

Crashes occur for a variety of reasons and often a combination of contributing factors. These factors may include excessive speed, roadway conditions, equipment failure, inexperience, environmental conditions (e.g., weather, lighting, glare), and human behaviors such as distraction, impairment, and not

complying with traffic laws. With 1,467 total Killed or Serious Injury crashes over a seven-year period (2017-2023), the High Injury Network represents the most critical corridors that should be addressed in the region.

## People Impacted by Crashes

Over the last seven years, there have been 1,467 fatal and serious injury crashes in the Triangle West region. Each of these crashes is at least one person – people who were getting around in different ways, were different ages, were different races and ethnicities, and were traveling on different types of streets.

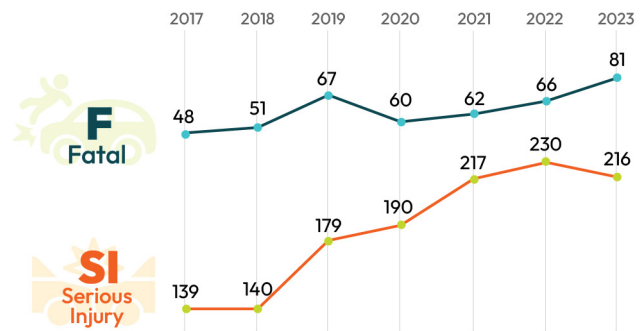
In the Triangle West region and across the United States, traffic crashes and other negative outcomes of the transportation system have disproportionate impacts on populations that are vulnerable to transportation disadvantages based on socioeconomic factors.

For example:

- Children and youth are often not independently mobile and rely on guardians to accompany them as they travel.
- Households in poverty may spend an outsized portion of their income on travel expenses.
- People in households without a vehicle – or even people who have limited access to the vehicle within their household – may be dependent on the availability of safe multimodal facilities to access their daily needs.
- People with disabilities are less likely to drive and more likely to rely on public transportation than nondisabled residents, meaning safe, accessible, and intuitive infrastructure is critical for ensuring people with vision, hearing, cognitive, or mobility-related disabilities can go about their daily lives.<sup>1</sup>
- Lack of safe and convenient transportation is a major barrier for households facing food insecurity.

For people in food deserts, affordable transportation options are essential for accessing healthy foods and/or free food services.

- People with lower levels of English proficiency may face challenges understanding or communicating in a safety-critical situation.<sup>2</sup>



**FIGURE 3** Crash Counts by Year

## What is a Serious Injury?

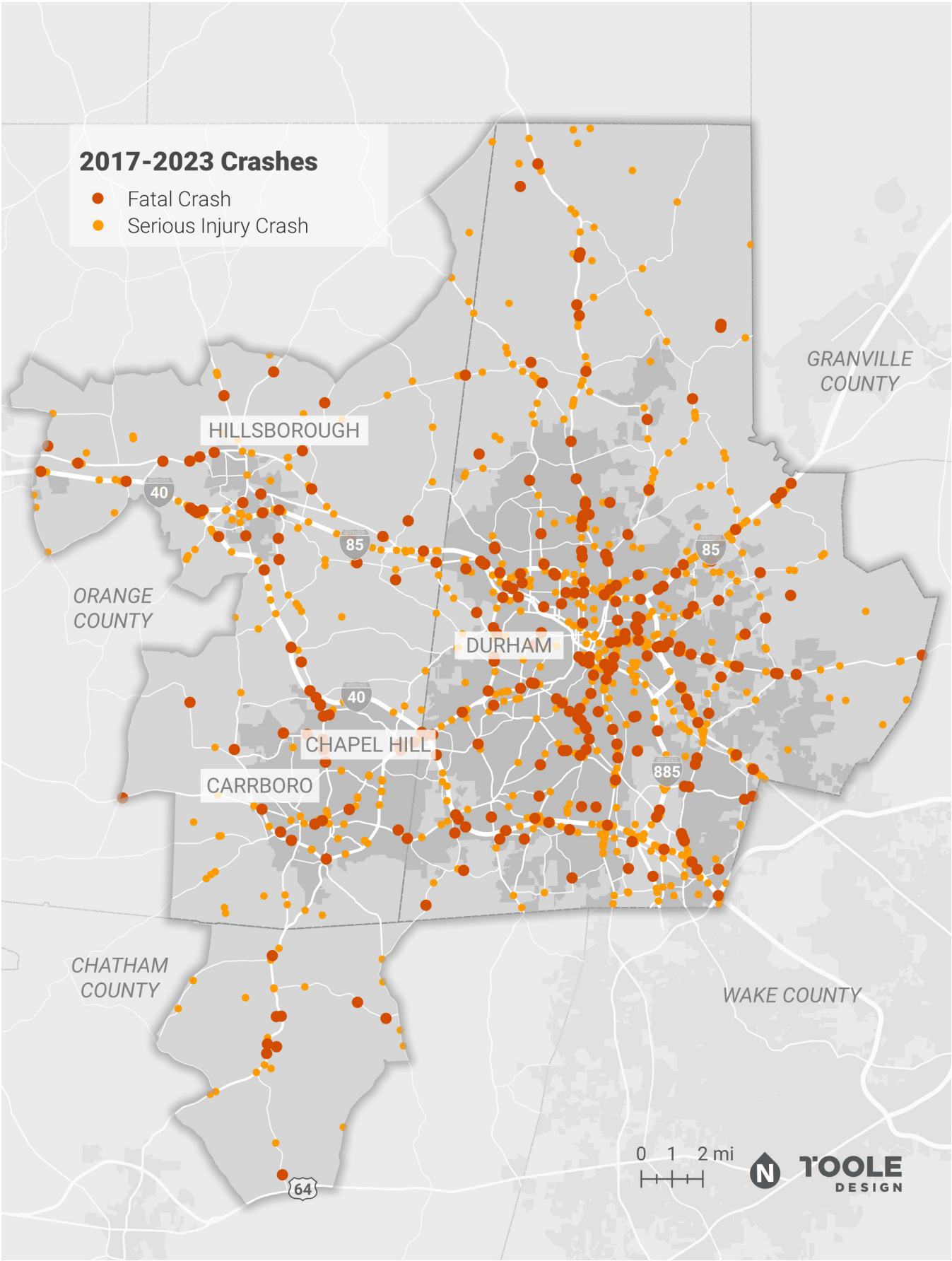
A serious injury includes severe lacerations exposing muscle, tissue, or organs, or causing significant blood loss; broken or distorted limbs; crush injuries; suspected skull, chest, or abdominal trauma; second or third-degree burns covering at least 10% of the body; unconsciousness; or paralysis.

<sup>1</sup> Data Analysis. Data Analysis | Bureau of Transportation Statistics. (2011, November 30)

<sup>2</sup> Marudut Bernadtua Simanjuntak. (2024). The Impact Of English Communication On Transportation Safety Practices. International Journal of Educational Development, 1(2), 79–87.



**MAP 1** Regional Crash Map



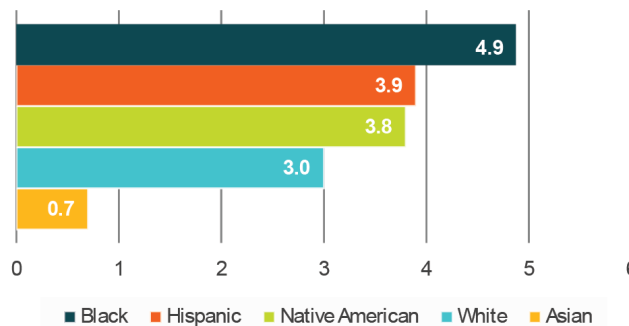
To improve safety outcomes for people facing the most transportation challenges, the Triangle West TPO Vision Zero Action plan conducted a demographic analysis to identify and map areas throughout the region with the highest proportions of people in **eight key populations**:

- Black, Indigenous, and other People of Color, specifically the ACS race and ethnicity categories:
  - Black or African American
  - American Indian and Alaska Native
  - Asian
  - Two or More Races
- Hispanic or Latino
- Households in poverty
- Carless households
- Youth under 18 years old
- Older adults over 64 years old
- People with disabilities
- People with limited English proficiency
- People with limited educational attainment

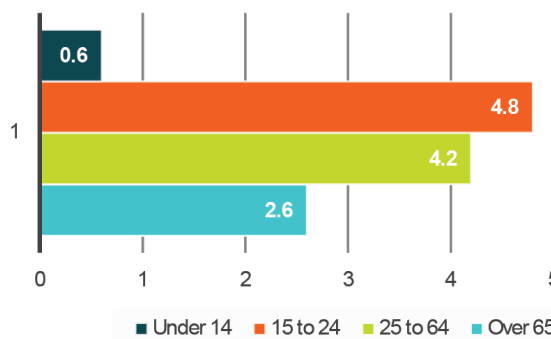
The demographic analysis results in **Map 2** show that there are key populations located across the region, but the highest concentrations are in East Durham near downtown and along the Durham Freeway; Southeast Durham along Fayetteville Street and E Cornwallis Road; Southwest Durham along Durham Chapel Hill Boulevard; along I-85 just west of Hillsborough; and in North Hillsborough between Cornelius Street and NC-86.

Achieving an equitable transportation system requires an understanding of how both positive and negative impacts are distributed throughout a region and across different demographic groups. In the Triangle West region, people of different races, ages, and genders experience different fatality crash rates.

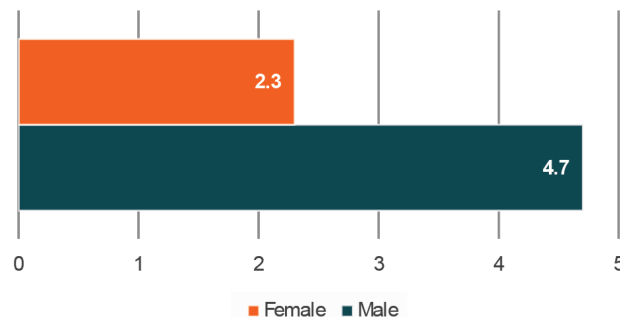
### Fatal and Serious Injury Crash Rate per 1,000 People



### Fatal and Serious Injury Crash Rate per 1,000 People



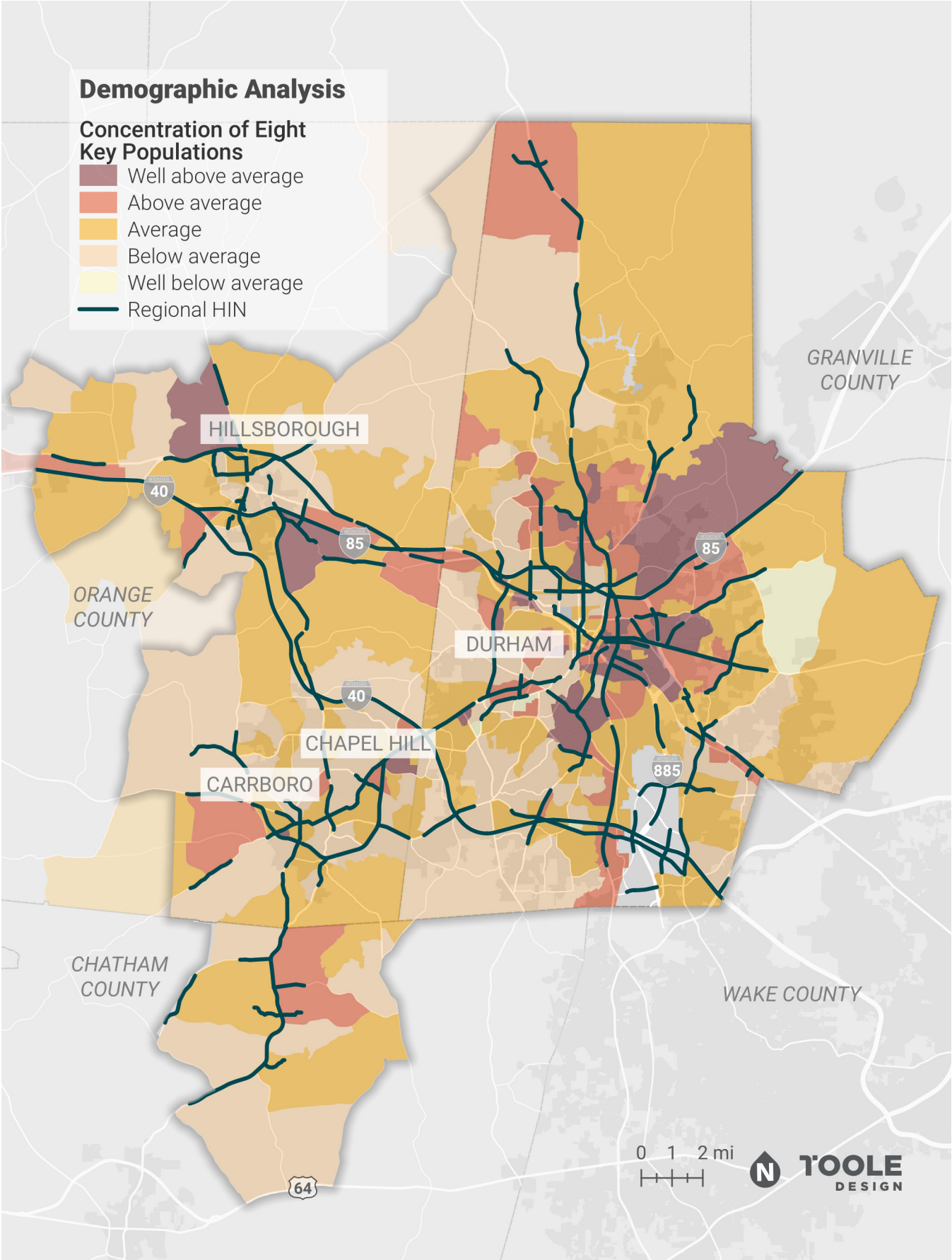
### Fatal and Serious Injury Crash Rate per 1,000 People



**FIGURE 4** Fatal and Serious Injury Crash Rates by Race/Ethnicity, Age, and Gender



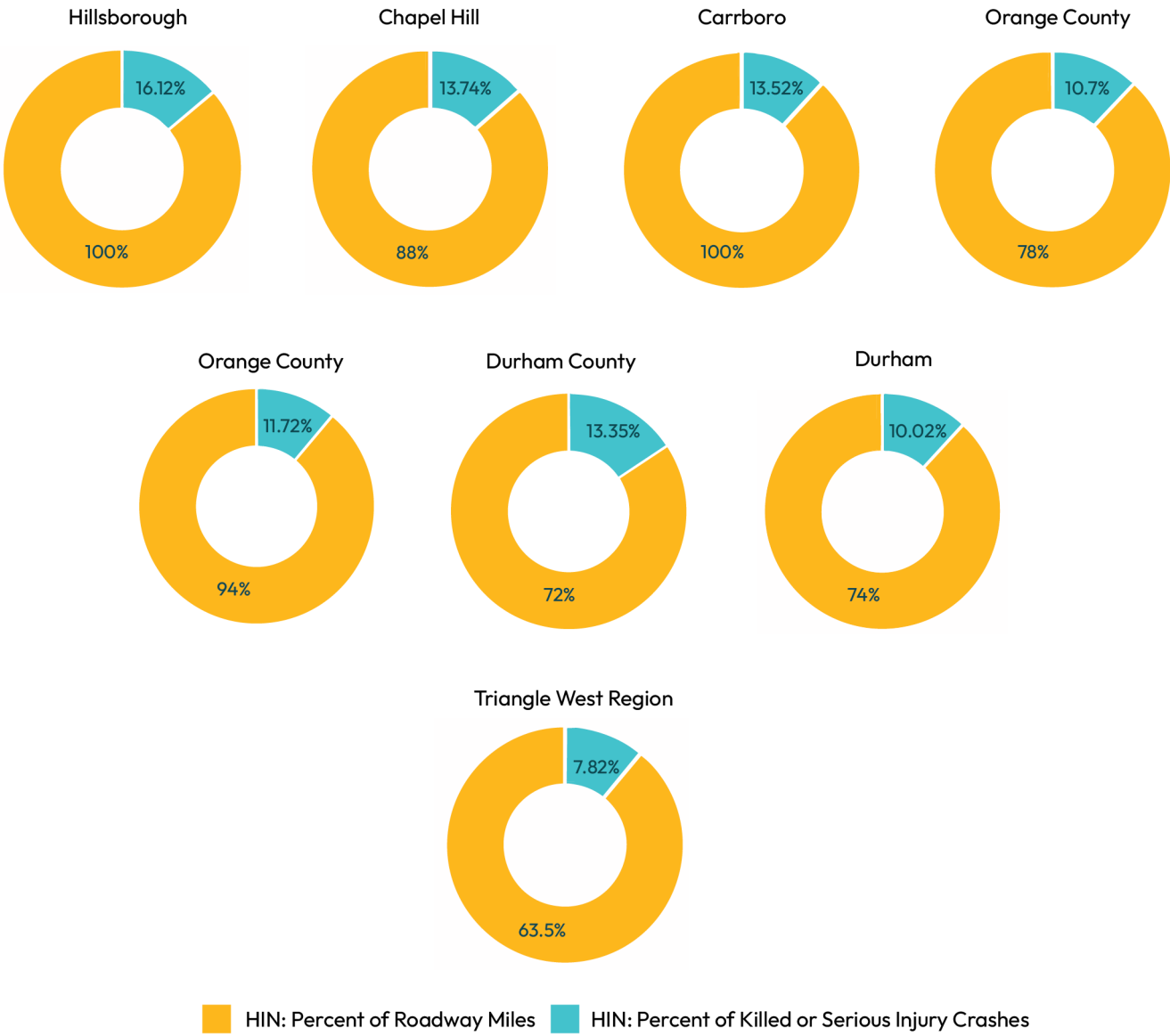
**MAP 2** Demographic Analysis Results Map



# High Injury Network

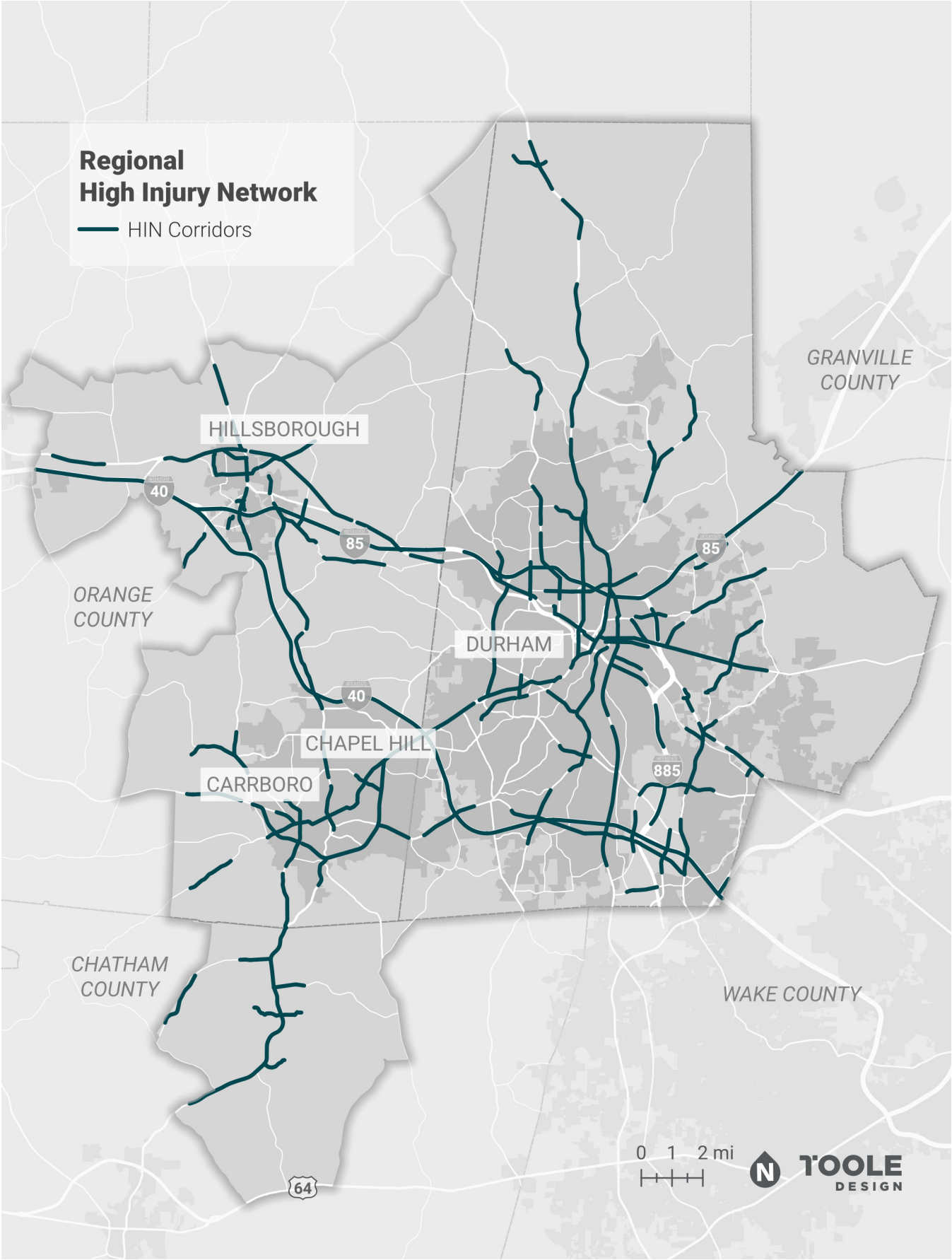
One way to go beyond the traditional hot-spot crash analysis is to identify a High Injury Network (HIN) map that focuses on segments of roadway network where the highest number of fatal and serious injury crashes occur. This provides a bigger-picture perspective on the roadways and intersections with the highest concentration of the worst crashes in the city over the past five years. This can be used to identify locations where it is appropriate to make changes to the roadway to prevent similar crashes from happening in the future.

The HIN represents 7.82% of total roadway miles across the Triangle West region, while also accounting for 63.5% of the total killed or serious injury crashes.

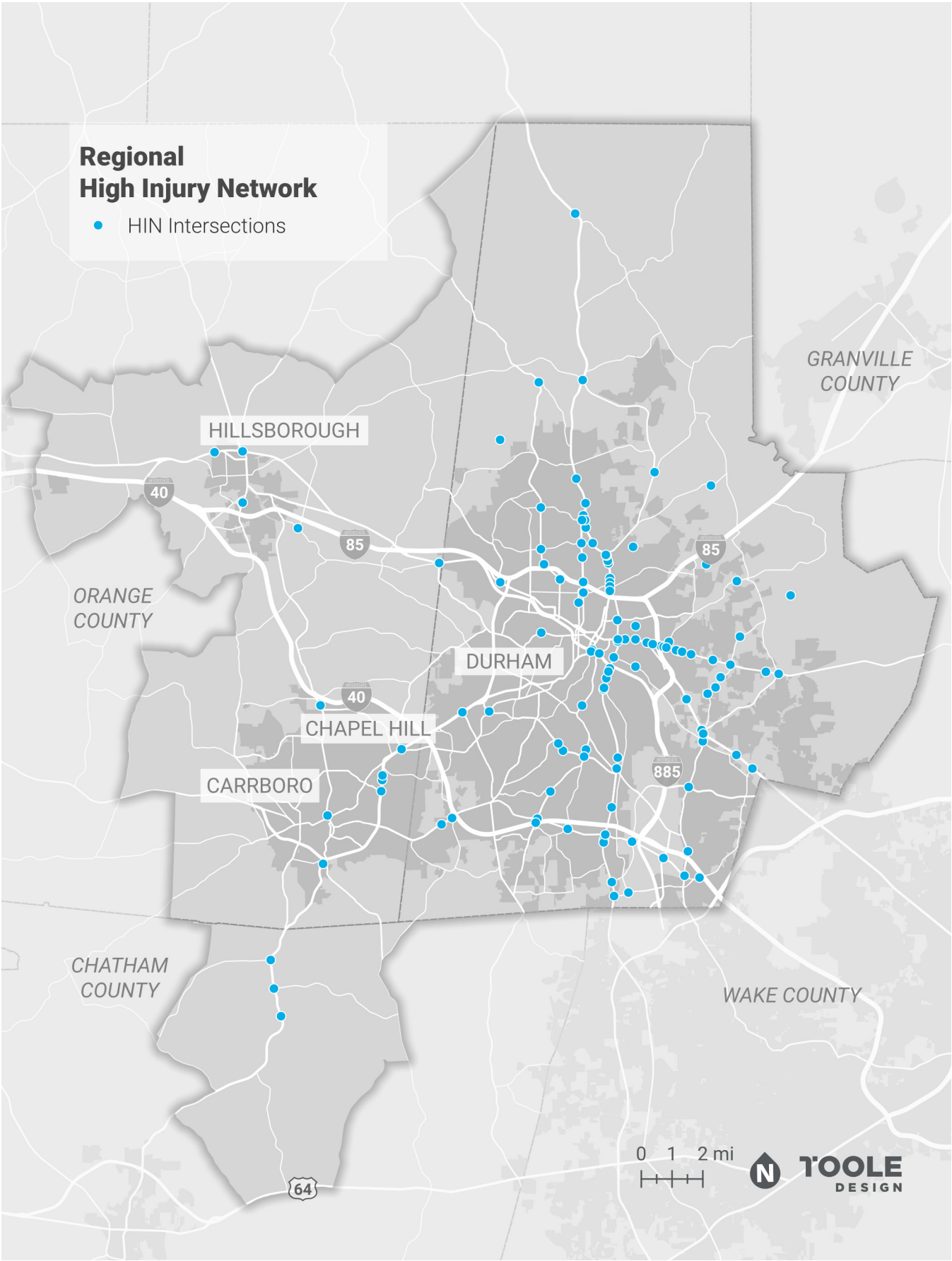


**FIGURE 5** Fatal and Serious Injury Crash Rates by Race/Ethnicity, Age, and Gender

**MAP 3** Regional High Injury Network Corridors Map



**MAP 4** Regional High Injury Network Intersections Map



# High Risk Network

The HIN effectively captures what has happened in the immediate past. The HIN was also analyzed to identify any common conditions that exist on roadway segments on the HIN – for example, the land use context, number of lanes, posted speed limit and other factors. The High Risk Network map (on the following page) identifies locations throughout the city where those same conditions exist and where it is reasonable to anticipate that serious crashes are likely to happen in the future.

The risk analysis accounts for three main pillars: Exposure, Likelihood, and Severity. The Triangle West TPO risk analysis identifies:

- Areas where there is an expectation of higher exposure risk for all road users based on the potential for conflict between road users.
- Roadways where there is an expectation of higher exposure risk for all road users based on number of vehicles
- Roadways where there is an expectation of higher severity risk based on speed
- Roadways where there is an expectation of increased likelihood of specific crash emphasis areas, independent of crash history, based on shared location characteristics.

This risk analysis can be used to identify systemic changes to the roadway network that need to be made whenever the opportunity presents itself, as well as elements of roadway design that should be avoided in the future.

## Three Pillars of Risk Analysis



**Exposure** – Reduce the interactions where potential collisions may occur



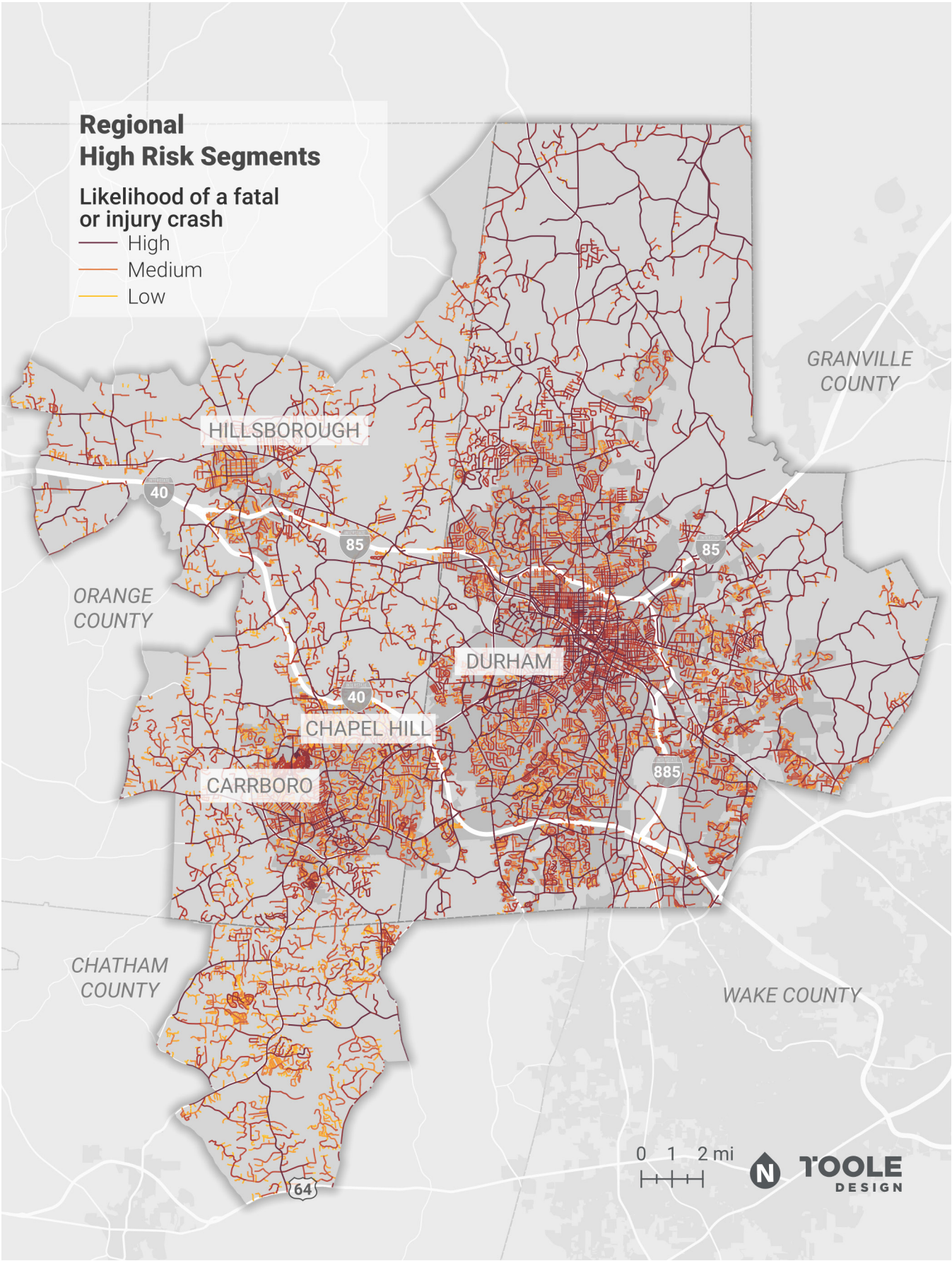
**Risk/Likelihood** – Reduce the likelihood of a collision occurring



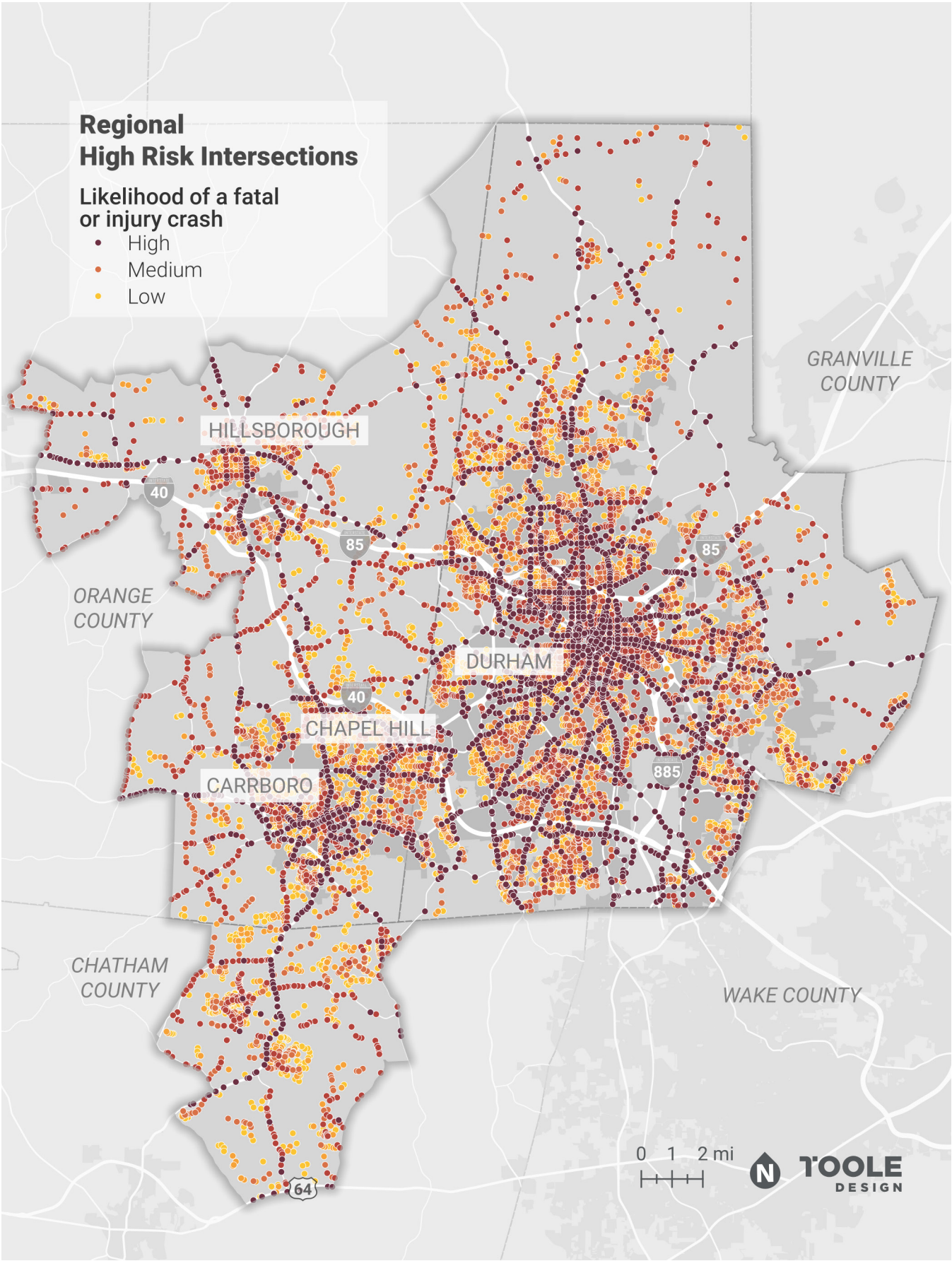
**Severity** – Reduce the kinetic energy associated with collisions



**MAP 5** Regional High Risk Network Segments Map



**MAP 6** Regional High Risk Network Intersections Map

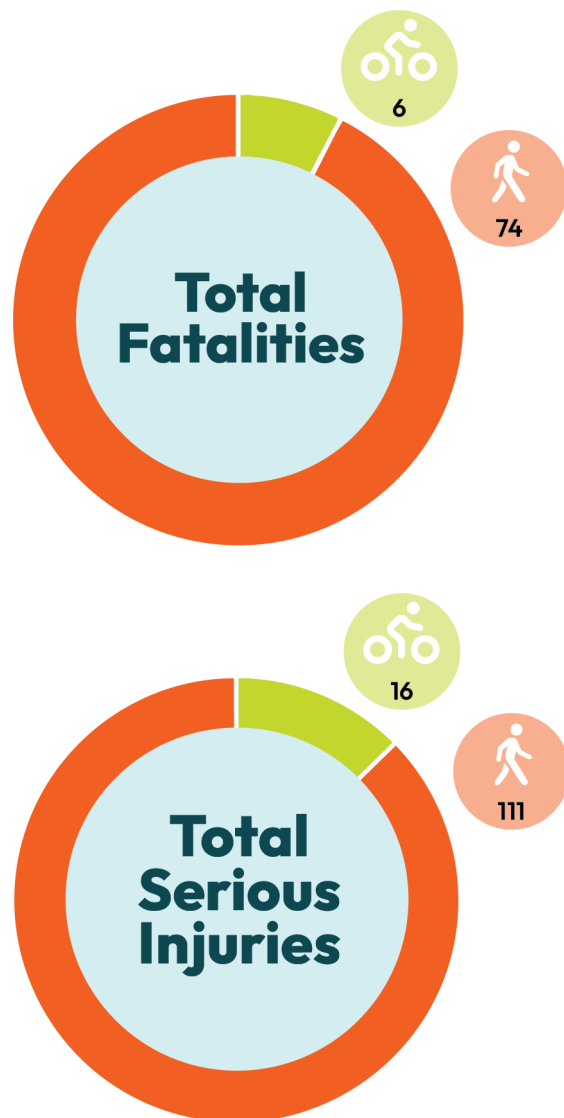




# Vulnerable Road Users

When a person walking or bicycling is struck by a vehicle, there is no bumper or airbag to protect them. When a crash occurs, these Vulnerable Road Users are more likely to be killed or seriously injured. Vehicle safety technology has seen significant advancements in recent decades, with airbags, anti-lock brakes, and lane-awareness sensors all working to protect a driver in a crash. Pedestrians and bicyclists, however, are unprotected and are especially vulnerable to the impact of a crash. A growing share of roadway fatalities across the United States are people traveling on foot or by bicycle.<sup>3</sup> This disparity underscores the importance of prioritizing safety for vulnerable road users who are most impacted when a crash occurs.

Between the years 2017 and 2023, 80 people were killed while walking or bicycling, while 127 people walking or bicycling were involved in crashes that resulted in serious injuries in the Triangle West region.

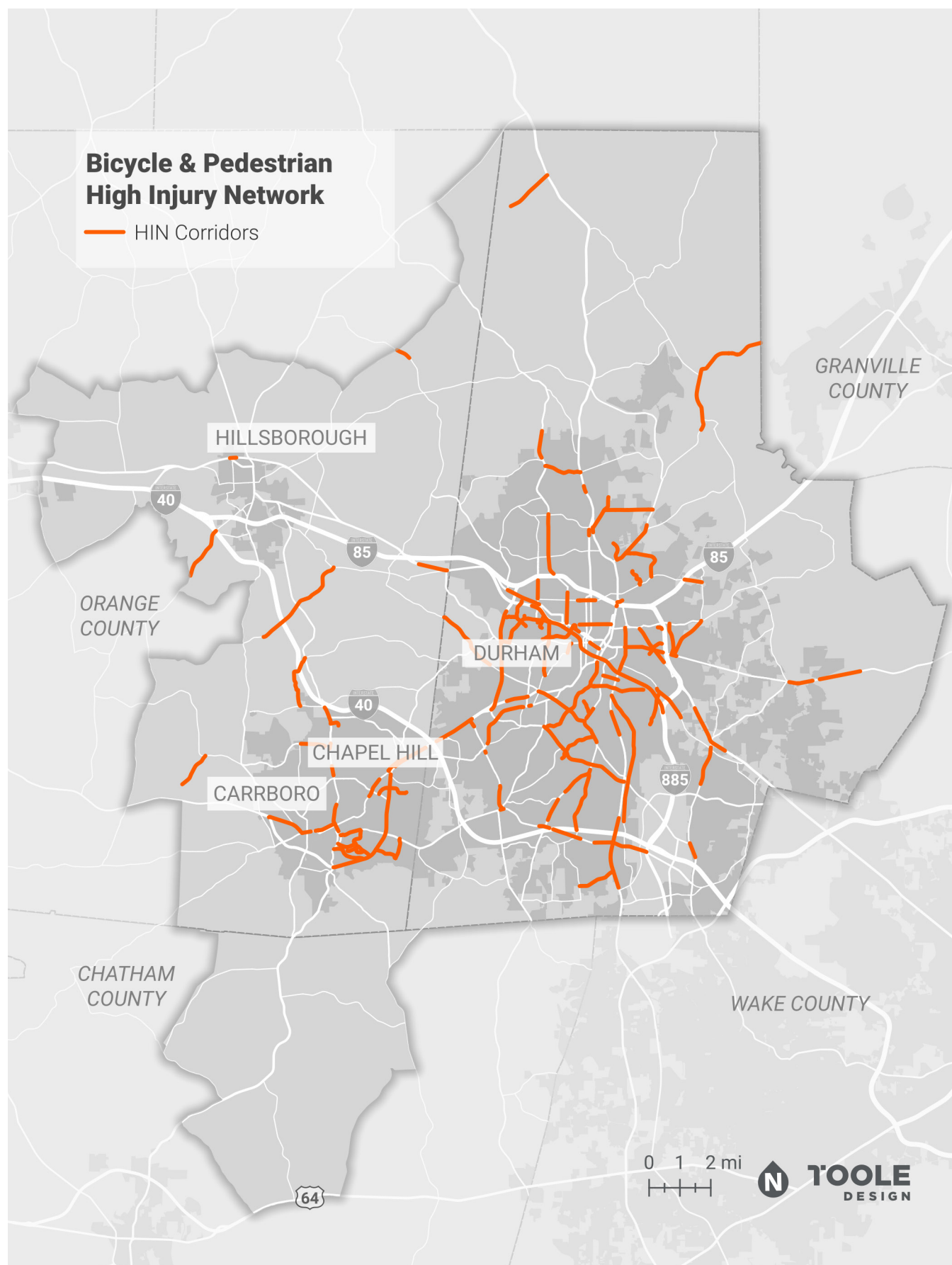


**FIGURE 6** Fatal and Serious Injuries Among Vulnerable Road Users (VRUs)

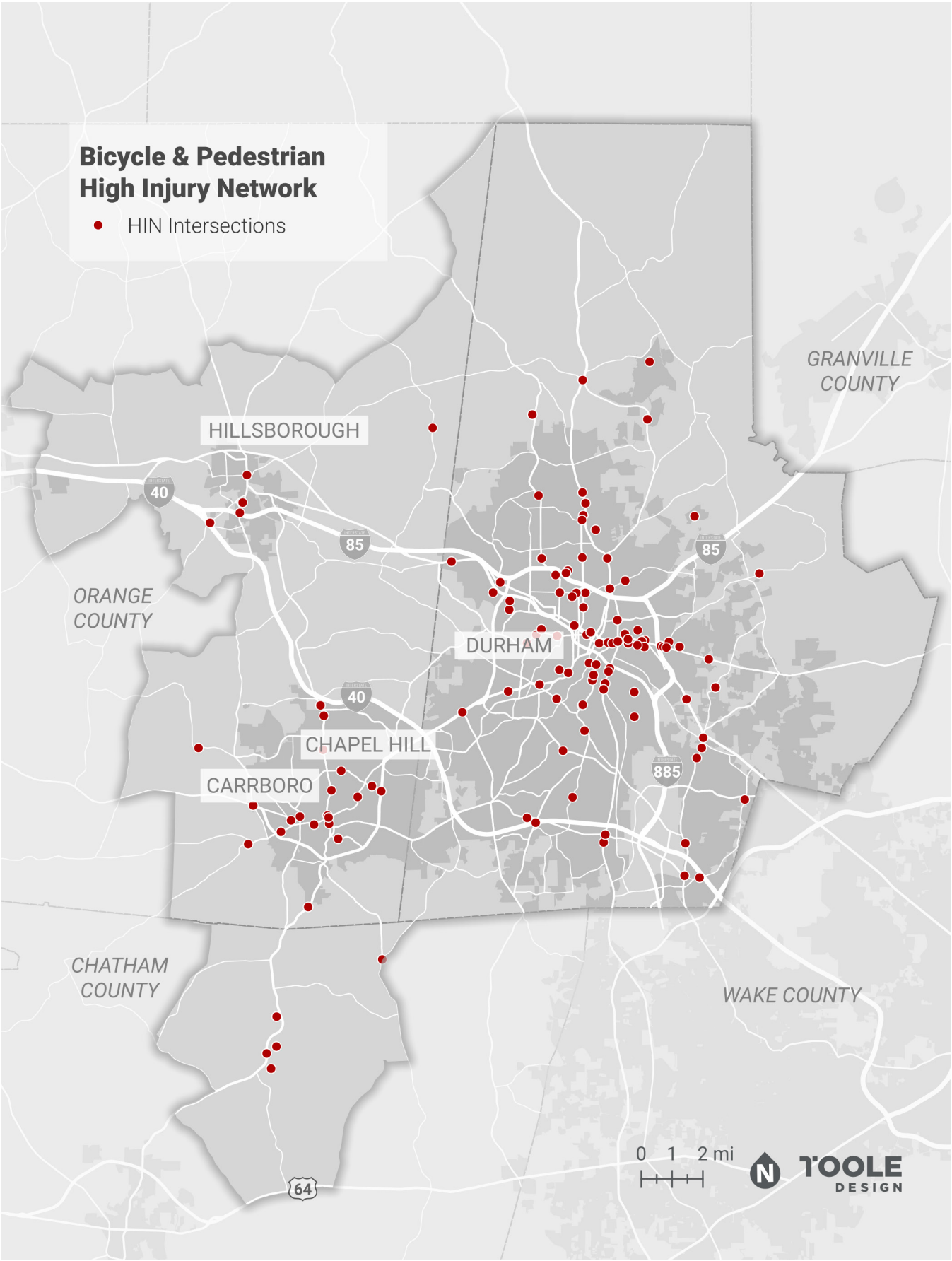
3      Fatality Analysis Reporting System (FARS) – NHTSA



**MAP 7** Bicycle & Pedestrian HIN Corridors Map



**MAP 8** Bicycle & Pedestrian HIN Intersections Map



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# 103

**Engagement  
and Input**



Public and stakeholder engagement played a critical role in shaping the Triangle West TPO Vision Zero Plan, ensuring that the process reflected community needs, local priorities, and technical expertise. A variety of engagement activities were conducted to solicit feedback on roadway safety and ultimately inform the Plan, ranging from in-person events to online surveys.

Together, these engagement efforts helped shape a data-driven, community-informed plan that prioritizes safety, accessibility, and mobility for all users. The following sections provide a detailed summary of each engagement event or activity and the key themes that emerged.

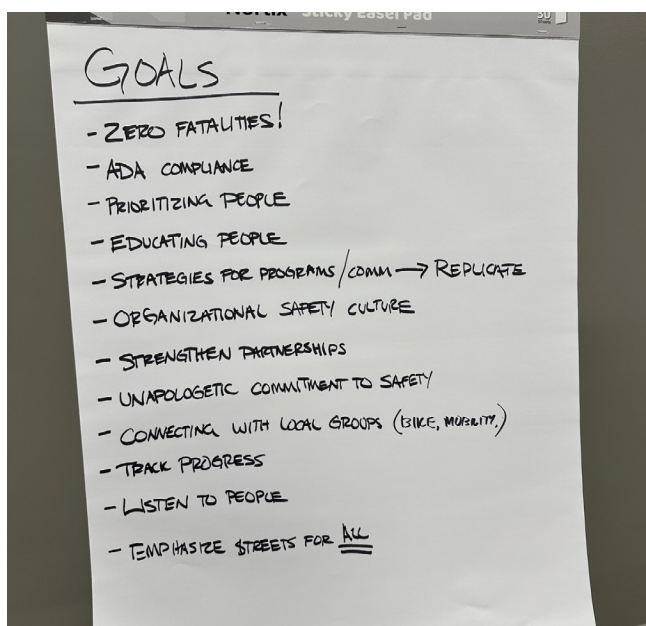


## Technical Advisory Committee (TAC)

The Technical Advisory Committee (TAC) met three times during the development of the Safety Action Plan. The TAC brought together agency representatives, planners, and transportation professionals to discuss safety priorities, review data, and guide the plan development, ensuring alignment across regional and local stakeholders.

- **Meeting 1 (August 20, 2024):** Introduction of the Safe System Approach (SSA) and review of safety data, including the High-Injury Network (HIN), High-Risk Network (HRN), and equity analysis.
- **Meeting 2 (December 10, 2024):** Analysis of crash types, roadway contexts, and regional risk factors, including school zones and transit access gaps.
- **Meeting 3 (February 25, 2025):** Final plan recommendations, implementation strategies, ongoing progress tracking, and opportunities to strengthen regional partnerships.

Insights gathered from these meetings helped refine the Triangle West Vision Zero Plan's strategies, funding priorities, and implementation roadmap, ensuring a coordinated approach to reducing serious injuries and fatalities in the region.



**FIGURE 7** Collaborative Technical Advisory Committee Meetings





# Safety Summit

Public Engagement was kicked off in October 2024 with a half-day Safety Summit, which brought together transportation professionals, policymakers, and community organizations to discuss regional roadway safety. The event included breakout sessions focusing on community perceptions, equity considerations, technical solutions, and policy coordination to address safety challenges in the region.

## Breakout Session Discussions:

- Community perceptions of roadway safety
- Infrastructure and technical solutions
- Policy coordination
- Equitable engagement
- Infrastructure funding



**FIGURE 8** Pledge Wall



# Open House

A November 2024 Open House, held at the Chapel Hill Public Library, was designed to gather real-life experiences and insights, with many attendees sharing personal stories about safety challenges, past crashes, and the loss of loved ones due to roadway incidents. These firsthand experiences provided valuable context to the data-driven findings, reinforcing the need for targeted safety interventions. The event featured interactive boards and hands-on activity stations for children and adults, as well as an opportunity for participants to provide additional feedback through an online survey.



**FIGURE 9** Interactive Boards at Open House Event



## Local Events

Agency staff members participated in several local events where they presented plan updates, shared information at tabling events, and gathered input from municipal and county representatives, advocacy groups, and other regional partners. These events allowed for direct discussions between local leaders and stakeholders about transportation needs and priorities.

- September 30, 2024: Durham Vision Zero/Safe Streets Strategies Workshop at Durham Armory
- October 13, 2024: Move-A-Bull City at Durham Central Park
- October 30, 2024: Safetoberfest at UNC Campus
- November 17, 2024: Durham World Day of Remembrance at POOF Teen Center in Durham



**FIGURE 10** Local Events: Move-A-Bull City (top) & Safetoberfest (bottom)



## Online Survey and Interactive Webmap

To ensure broad public participation beyond in-person events, an online survey was created and made available from October 2024 to March 2025. The survey provided an opportunity for the public to share insights into safety challenges, helping to identify high-risk corridors and key concerns for pedestrians and bicyclists.

A total of 89 surveys were submitted, with participants contributing 145 location-specific comments, identifying areas where they felt unsafe or had experienced roadway safety issues.

### Survey Highlights:

- Missing and poor sidewalks
- Insufficient bikeways
- Dangerous intersections
- Speeding vehicles
- Aggressive and distracted drivers

## Online Survey Highlights

**Survey:** Oct '24 - Mar '25

**89** Responses

**145** Location-specific Comments



#### Interactive Webmap:

The interactive mapping responses revealed specific corridors and intersections in Durham, Chapel Hill, and Carrboro where pedestrian and bicyclist safety is a community concern. Factors such as lane widths, traffic volume, and proximity of transit stops to schools and employment centers were commonly cited as contributing to high-risk conditions.



IMAGE PLACEHOLDER

**FIGURE 11** Interactive Survey Webmap





# 104

## **Focus Areas and Priority Projects**



Increasing safety on the transportation system in the region must prioritize addressing locations with a high prevalence or likelihood of fatal and serious injury crashes. Deploying countermeasures systemically along with addressing concerns on high injury corridors and intersections will focus the region as projects are planned, designed, and deployed.

# Proven Safety Countermeasures

There are many tools and resources that can improve transportation safety for all users. As an industry’s best practice, the FHWA Proven Safety Countermeasures initiative (PCSi) is a collection of countermeasures that have been proven to decrease serious injuries and fatalities on roadways throughout the country. FHWA has created an online tool that recommends potential countermeasures based on roadway characteristics such as land use context, expected volumes, crash history, and more to help communities across the country improve roadway safety.

Addressing safety in the Triangle West region will require using a variety of these proven safety countermeasures across the transportation network, starting with the High Injury Network. The right countermeasure (or a mix of countermeasures) will vary based on the existing roadway conditions, safety issues,

and the community’s vision for how it should be serving their transportation and access needs into the future, which may be different than how it functions today.

Selection and design of safety countermeasures on every street project in the region should be decided through the lens of the Safe System Approach, so that if a crash occurs it will not result in a fatal or serious injury. Safety countermeasures should not be compromised or simplified during the design or construction phases.

The safety countermeasures listed below include hyperlinks to provide a more detailed description and an overview of each countermeasure’s effectiveness in improving safety:

## Speed Management



Appropriate Speed Limits for All Road Users



Variable Speed Limits

## Pedestrian/Bicyclist



Bicycle Lanes



Crosswalk Visibility Enhancements



Leading Pedestrian Interval



Medians & Pedestrian Refuge Islands



Pedestrian Hybrid Beacons



Rectangular Rapid Flashing Beacons



Road Diets (Roadway Reconfiguration)



Walkways

## Roadway Departure



Enhanced  
Delineation for  
Horizontal Curves



Median Barriers



Longitudinal Rumble  
Strips and Stripes on  
Two-Lane Roads



Roadside Design  
Improvements at  
Curves



Safety Edge



Wider Edge Lines

## Intersections



Backplates with  
Retroreflective Borders



Corridor Access  
Management



Dedicated Left &  
Right-Turn Lanes at  
Intersections



Yellow Change  
Intervals



Reduced Left-Turn  
Conflict Intersections



Systemic Application  
of Multiple Low-Cost  
Countermeasures at  
Controlled Intersections



Roundabouts

## Crosscutting



Local Road Safety  
Plans



Pavement Friction  
Management



Road Safety Audit

# Proactive Systemic Safety Countermeasures

Safety countermeasures can be installed proactively and integrated into existing or planned roadway projects through quick builds, resurfacing or maintenance work, or full reconstruction, especially on the High Injury Network. The following list highlights several safety countermeasures that are recommended to improve safety in the Triangle West region: Many of these interventions can be implemented with low-cost treatments such as paint and flexible delineators. Bolt-in roundabouts may also be used to retrofit existing intersections, bringing critical safety interventions to the High Injury Network rapidly and affordably.



**Eliminate excess roadway widths that contribute to higher speeds**, repurposing the space with medians, dedicated transit lanes, bicycle lanes, landscaping, etc.



**Install roundabouts** instead of new signals or four-way stops and convert two-way stops and appropriate signalized intersections to roundabouts.



**Reduce the crossing distance** and spacing between crossings based on land use context and transit stop locations.



**Provide appropriate dedicated bicycle facilities** on roadways with posted speeds greater than 25mph or with vehicle volumes greater than approximately 3,000 vehicles per day.



**Implement leading pedestrian intervals** at signalized intersections, specifically on the High Injury Network and High-Risk locations.



**Install pedestrian-scale lighting** along the High Injury Network, especially at arterial crossings.



**Implement no turn on red** in dense urban contexts and along the High Injury Network and high-volume pedestrian routes.



**Adjust signal timing and signage** for speed limits on arterials.



**Set target speeds** based on the Safe System Approach, including context sensitive design.



**Implement raised medians or comparable devices** to prohibit across-roadway movements such as turns for mid-block driveways, particularly for multi-lane roadways and where there are high pedestrian and bicyclist volumes.

Road diets can also be implemented as a part of regular resurfacing projects or through targeted restriping projects. FHWA notes that road diets are feasible on roadways with four or more lanes and daily volumes of 25,000 or less.<sup>4</sup> Excess roadway width is correlated with speeding and safety risks; reducing excess width creates safer streets. Removing space purely allocated for high-speed vehicle travel will increase space for other modes and create opportunities for roadway enhancements such as medians, improving the experience for all users.

Proactive and systemic safety countermeasures should be considered for installation on the HIN first and then as part of other street projects with similar conditions where crashes could occur, and eventually in a more widespread fashion, as budget and staff resources allow.

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<sup>4</sup> FHWA. Road Diet Informational Guide (2014)

# Prioritization Criteria

The development of prioritization criteria was based on the results of safety analyses and an understanding of the Safe System Approach. The list of possible projects that result from the prioritization process should highlight corridors that have experienced high numbers and density of fatal and serious injury crashes, as well as opportunities to address risk characteristics to increase safety. This Plan uses the following prioritization criteria to identify both corridors and intersections that are suitable for project development by implementing agencies across the Triangle West TPO region.



## **Severity – Reduce the kinetic energy associated with collisions**

Projects that reduce the kinetic energy of collisions will be prioritized. Crashes that occur at higher speeds and at more severe angles are more likely to result in a fatality or serious injury. The most effective proven safety countermeasures are effective because they can either 1) reduce the speed at which a potential collision occurs or, 2) reduce the angle (i.e., sideswipes instead of head on or angle crashes) at which crashes occur.



## **Exposure – Reduce the interactions where potential collisions may occur**

Reducing exposure to collisions is another method of reducing severe crashes. This can take many forms, but a simple example may be the presence of bicycle and pedestrian traffic generators near major traffic thoroughfares. Priority is given to corridors that have higher daily motor vehicle volumes and is context specific, meaning that exposure may be higher in urban areas along streets with daily volumes greater than 15,000 due to multimodal conditions and density of intersections as compared with a rural roadway.



## **Risk/Likelihood – Reduce the likelihood of a collision occurring**

Proactive projects that prevent a collision from occurring should be prioritized. The Action Plan may include projects that remove or reduce potential conflicts that tend to result in more severe outcomes. Priority is given to corridors and intersections identified in the High Injury Network, Risk Networks, or the High Injury Intersections.

# Priority Projects

The following shows priority corridors and intersections across the region based on the criteria described above. Priority corridors and intersections for local agencies are displayed in map packages in Appendix XX.



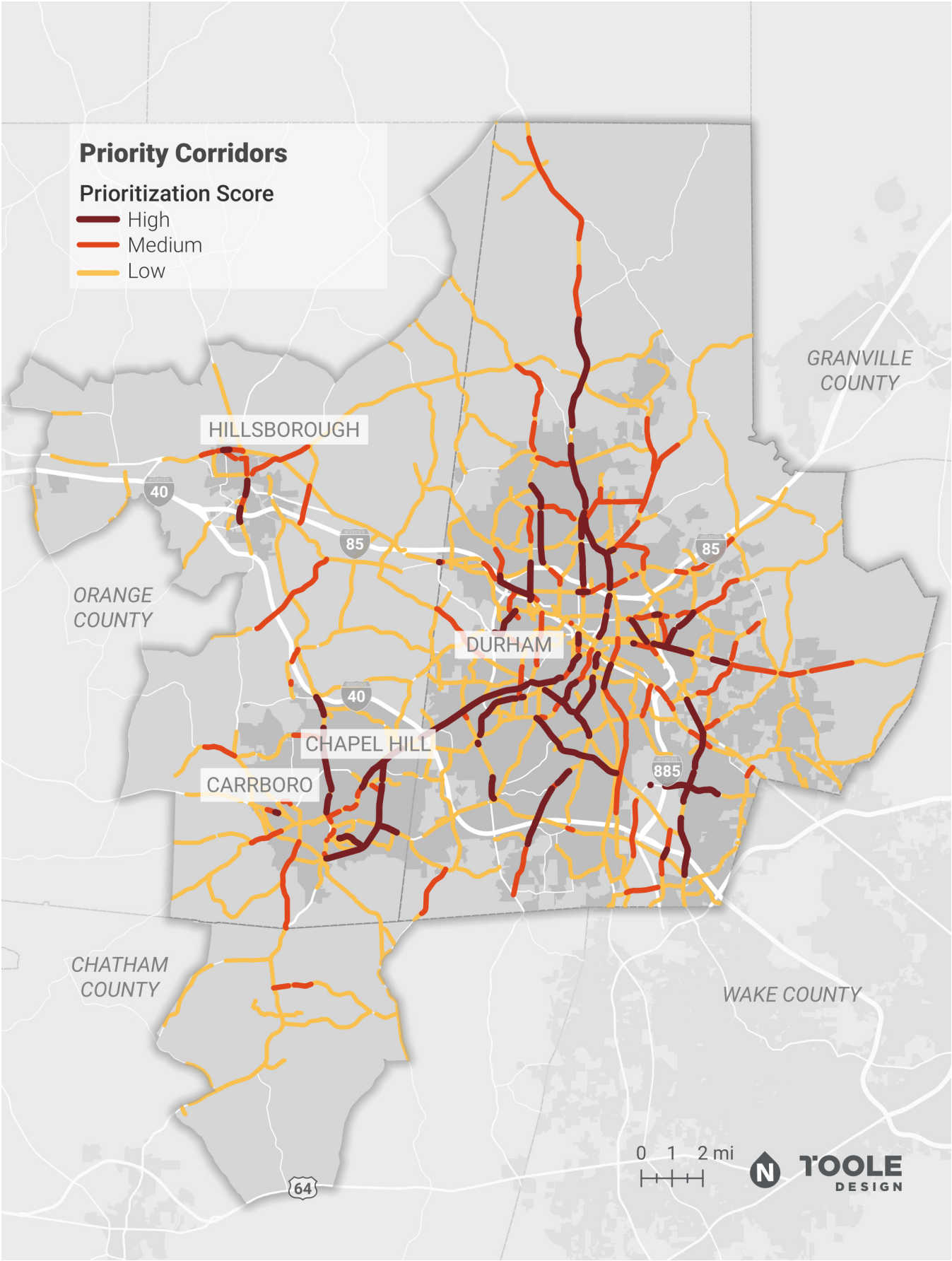
## Regional Priority Corridors

**TABLE 3** Regional Priority Corridors Overview

Corridors	Municipality	County
NC-86 / Martin Luther King Jr Blvd	Chapel Hill	ORANGE
US-70 BUS/ Hillsborough Rd	Durham	DURHAM
US-15 Fordham Blvd	Chapel Hill	ORANGE
US-15 Business/N Roxboro St at I-85 Interchange	Durham	DURHAM
US-15 Business/N Roxboro St	Durham	DURHAM
US-15 BUS/ Durham Chapel Hill Blvd	Durham	DURHAM
US-501 N Duke St	Durham	DURHAM
US-70 S Miami Blvd	Durham	DURHAM
SR-1158 S Cornwallis Rd	Durham	DURHAM
SR-1321 Hillandale Rd	Durham	DURHAM
SR-1010 E Franklin St	Chapel Hill	ORANGE
SR-1118 Fayetteville Rd	Durham	DURHAM
University Dr	Durham	DURHAM
Martin Luther King Jr Blvd	Durham	DURHAM



**MAP 9** Regional Priority Corridors



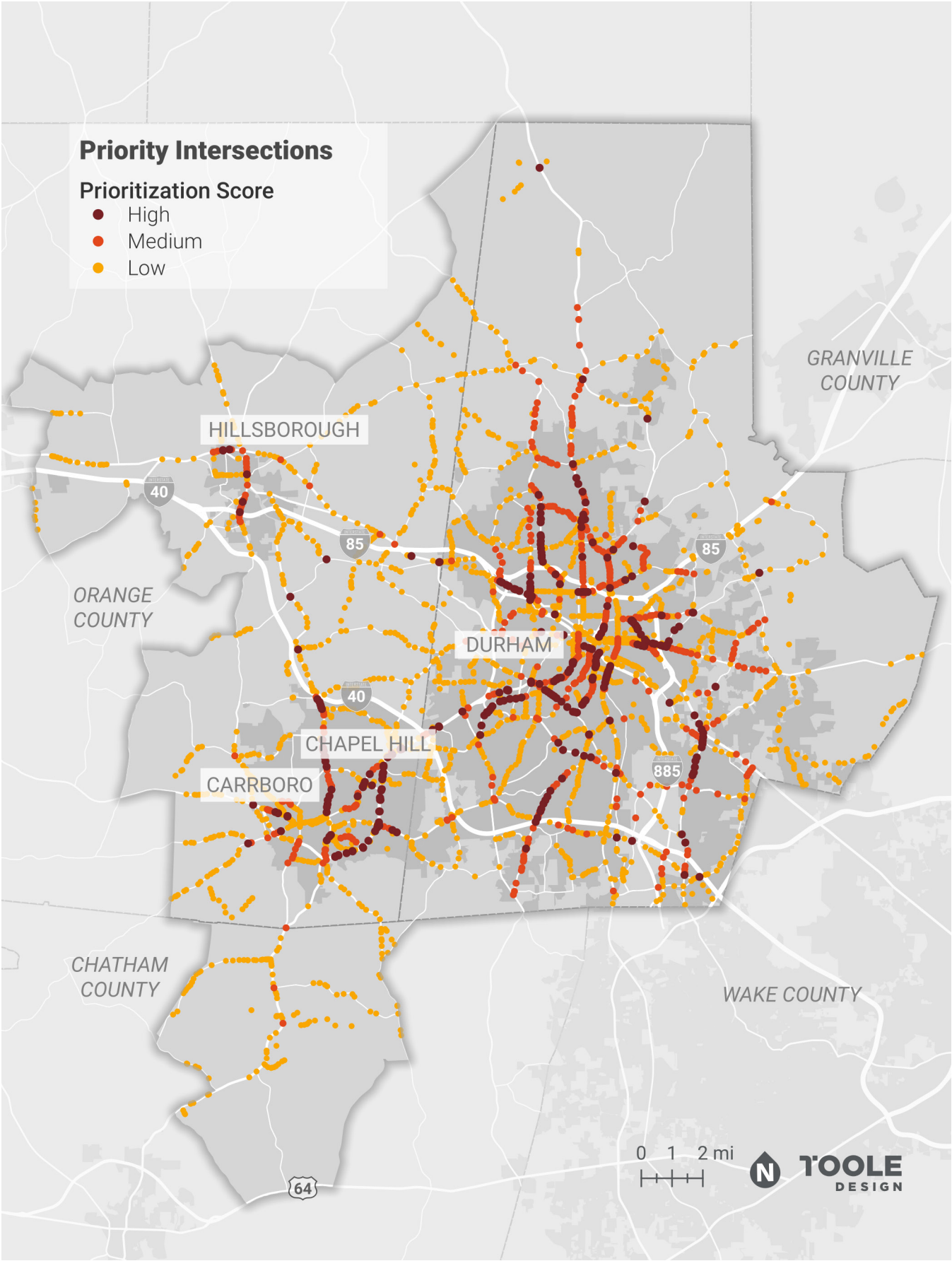


## Regional Priority Intersections

**TABLE 4** Regional Priority Intersections Overview

Corridors	Municipality	County
NC-86 at Central Park Ln	Chapel Hill	ORANGE
Hillandale Rd (SR-1321) at W Wilson St	Durham	DURHAM
Timber Hollow Ct at NC-86	Chapel Hill	ORANGE
Manning Dr at Woodbine Dr	Chapel Hill	ORANGE
NC-86 at North St	Chapel Hill	ORANGE
NC-86 at Piney Mountain Rd	Chapel Hill	ORANGE
Hillandale Rd (SR-1321) at Sprunt Ave	Durham	DURHAM
NC-55 at Mint St	Durham	DURHAM
US-15 at Fordham Blvd	Chapel Hill	ORANGE
SR-1118 at Woodcroft Pkwy	Durham	DURHAM
US-15 at Europa Dr	Chapel Hill	ORANGE
NC-55 at Dayton St	Durham	DURHAM
US-15 at Fordham Blvd	Chapel Hill	ORANGE
US-70 BUS at Hillandale Rd Hillsborough Rd Ramp	Durham	DURHAM
SR-1321 at W Club Blvd	Durham	DURHAM
US-15 at SR-1741	Chapel Hill	ORANGE

**MAP 10** Regional Priority Intersections







# 105

## **Strategies and Actions**



The ultimate goal of the Triangle West TPO Vision Zero Plan—to **Save Lives** of people across the region—requires changing not only what we do but also how we plan, design, and operate the system that people use for daily trips. The Safe System Approach is the foundation for this change that elevates human life above everything else. Analyses in this Plan highlight important safety projects that can respond to locations where higher numbers and densities of fatal and serious injury crashes have occurred—displayed in the HIN and HII. Additionally, roadway characteristics were reviewed to understand where to address safety risks leading to projects, policies, and programs that can be proactive in addressing the safety of the transportation network.

To develop comprehensive solutions—both reactive and proactive—for the transportation safety challenges that exist across the Triangle West TPO region, the strategies and actions should focus on the principles and elements of the Safe System Approach:

Principles

Death and Serious Injuries are Unacceptable



Humans Make Mistakes



Humans Are Vulnerable



Responsibility is Shared



Safety is Proactive



Redundancy is Crucial



Elements

Safe Road Users



Safe Vehicles



Safe Speeds



Safe Roads



Post-Crash Care



# Safety Action Strategies

Triangle West TPO's Vision Zero Plan is a guide to increasing roadway safety. With a clear goal of eliminating fatal and serious injury crashes, supporting strategies provide support for operational changes that impact how roadway safety can be increased in a variety of ways—from project selection to roadway restriping, to resource development.

Action items are organized into the following strategy categories. Each strategy category is based on the results of analysis, input from stakeholders and the public, along with best practices for addressing roadway safety. The intent of developing categories is to support the TPO and people across the region as they identify opportunities to increase safety.



Roadway Safety Resources and Guidance



Trail and Railroad Crossings



Walking and Biking in Urban/Downtown Contexts



Unsafe Intersections



Multimodal Safety Along Multilane Arterials



Behavior and Distraction



Rural High-Speed Corridors



Land Development Practices and Procedures



Safer Routes to Schools



Vulnerable Road Users (VRUs) at Night



Traffic Calming On Local Streets

# How to Use the Action Item Tables

## A. Strategy Category

Strategies are overarching changes that may be operational, contextual, or mode-specific to systematically address the factors that lead to fatal and serious injury crashes and promote a culture of safety.

## B. Action Items

Each action item is a discrete, specific effort that can be advanced by the TPO, member agencies, supporting agencies, or NCDOT.

## C. Systemic Actions

Items followed by an asterisk represent systemic safety countermeasures that can be installed on the HIN or proactively across the region where similar conditions exist for crashes to potentially occur.

## D. Timeframe

Action items are assigned general timeframes to help action leaders prioritize their efforts. Although the timeframes note several years, these timeframes align with the level of effort for completing these actions.

Timeframes include:

- Immediate: Within 1 year;
- Short-term: 1-5 years; or
- Mid-term: 5-10 years.

## E. General Cost

There is an anticipated annual cost level listed with each step based on the following ranges:

- \$ - low (less than \$250k)
- \$\$ - medium (between \$250k-\$1M)
- \$\$\$ - high (\$1M and above)

## F. Action Leaders and Partners

Each action item may have several agencies that can take the lead. These agencies along with agencies/organizations that can provide support are noted. This is not an exhaustive list, and each action may create opportunities for partnerships in each community and across the region.

## A Trail and Railroad Crossings

B Similar to unsafe intersection, trail and railroad crossings impact the experience of roadway users and can present barriers to accessing key destinations. These actions identify opportunities to change crossing locations that prioritize trail users and coordinate the railroad companies to create strategic plans for future changes.

TABLE 11 Trail and Railroad Crossings: Actions & Implementation

C Action		D Timeframe	E Cost	F Action Leaders and Partners
Daylight intersections (removing obstacles that impair sight lines) for all trail and railroad crossings*		Short	\$\$	NCDOT, Municipalities
Construct grade separated crossings for trails at streets with posted speeds of greater than 45 mph*		Mid	\$\$\$	NCDOT, Municipalities





## Roadway Safety Resources and Guidance

Although the Triangle West TPO is not an implementing agency, there are numerous resources that can support roadway safety across the region. Additionally, member agencies are consistently developing new policies and programs that can be useful to other communities. These actions identify opportunities to create resources that can be hosted by the TPO and shared among its members.

**TABLE 5** Roadway Safety Resources and Guidance: Actions & Implementation

Action	Timeframe	Cost	Action Leaders and Partners
Create and adopt a regional Complete Streets Design Guide as a resource for the region	Short	\$	Municipalities, NCDOT
Convene a standing Transportation Safety Committee or Vision Zero Task Force to review crash and safety audit reports, coordinate efforts between jurisdictions, and track progress toward Vision Zero goals	Immediate	\$	TPO, Municipalities, NCDOT
Develop a region-wide safety campaign to share information with the community about traffic safety for all modes	Short	\$	Municipalities, TPO
Develop an annual program budget to support the Triangle West TPO region's Vision Zero Program	Short	\$\$	TPO
Ensure that asset management and maintenance programs reflect Vision Zero priorities	Immediate	\$	Municipalities, NCDOT
Publish annual reports for measuring progress with Vision Zero implementation, including crash data and other safety metrics for transparency and accountability	Immediate	\$	TPO, Municipalities
Adopt a Vision Zero Quick Build/Interim Design Policy that identifies interim design solutions with proven safety countermeasures that can be installed for safety projects while the more permanent solution is in the design and pre-construction processes	Short	\$	TPO, Municipalities
Develop and adopt a regional framework for developing annual safety targets that are focused on aggressively reducing fatal and serious injury crashes in the Triangle West TPO region	Immediate	\$	TPO
Develop a region-specific traffic calming guide that identifies best practices and applications for specific design elements	Short	\$	TPO, Municipalities, NCDOT



## Walking and Biking in Urban/Downtown Contexts

Increasing safety for people walking and biking—the most vulnerable road users—is paramount for municipalities across the region. As the downtowns in the City of Durham, and the Town of Chapel Hill, Carrboro, and Hillsborough continue to increase in density and attract more people, roadway safety is critical. The following actions identify opportunities to prioritize pedestrian and bicyclist mobility in the core of the communities that experience high volumes of daily trips.

**TABLE 6** Walking and Biking in Urban/Downtown Contexts: Actions & Implementation

Action	Timeframe	Cost	Action Leaders and Partners
Install No Turn on Red signs at all signalized intersections*	Immediate	\$	NCDOT
Install Leading Pedestrian Intervals (LPIs) on auto recall at all signalized intersections*	Short	\$	NCDOT, Municipalities
Construct curb extensions (interim solutions or concrete curbing) to daylight mid-block and intersection crossings along with formalizing parking/loading locations*	Short	\$\$\$	NCDOT, Municipalities
Deploy protected left turn signal phases (removing permissive left turns during active pedestrian crossing phases) in downtown areas and along high-volume pedestrian and bicycle corridors*	Short	\$\$	NCDOT, Municipalities
Create a sidewalk gap program to fill short segments outside of the private development or CIP processes*	Short	\$\$\$	Municipalities
Host Complete Streets design trainings/workshops for local government staff, elected officials, NCDOT project managers, consultants, etc.	Immediate	\$	TPO, Municipalities, NCDOT
Consider rest in red phase for downtown signals in off-peak, late night, or early morning periods*	Short	\$	NCDOT, Municipalities
Deploy hardened centerlines and turn wedges for motor vehicle turning movements at intersections*	Short	\$	Municipalities



## Multimodal Safety Along Multilane Arterials

Similar to many communities, roadway safety is a key concern along corridors where people are walking, bicycling, using transit, and driving in conditions with high motor vehicle volumes and numerous travel lanes. Safety action items for these corridors must elevate the Safe System principles and framework to ensure that users are separated wherever possible, and design emphasizes slower speeds where conflicts occur. The following actions not specific actions that can impact project development and policy decisions along with encouraging additional evaluation and study to understand key characteristics that impact local safety on multimodal multilane arterials.

**TABLE 7** Multimodal Safety Along Multilane Arterials: Actions & Implementation

Action	Timeframe	Cost	Action Leaders and Partners
Construct separated pedestrian and bicycle facilities—detached sidewalks, sidepaths, and separated bike lanes	Short	\$\$\$	NCDOT, Municipalities
Install speed limit feedback signage	Short	\$	NCDOT, Municipalities
Set/reduce speed limits for multilane arterials based on context <sup>5</sup>	Immediate	\$	NCDOT, Municipalities
Conduct regular Road Safety Audits on high-risk arterials	Immediate	\$	TPO, NCDOT, Municipalities
Remove permissive left turns during active pedestrian phases at intersections starting with intersections that include trail crossings and adjacent to transit stops	Short	\$\$	NCDOT, Municipalities
Develop corridor studies for HIN corridors, including crash types, speeds, multimodal facilities, crossings, and lighting/visibility	Mid	\$\$	TPO, NCDOT, Municipalities
Narrow travel lane widths on multilane arterials to support traffic calming and identify opportunities for repurposing existing roadway for multimodal facilities/amenities*	Short	\$\$	NCDOT, Municipalities



## Rural High-Speed Corridors

The Triangle West TPO Vision Zero Plan recognizes that roadway safety and context must be considered together to eliminate fatal and serious injury crashes. In the rural context, roadway design should consider how lane departures on high-speed corridors can be mitigated along high injury corridors as well as deploy proactive countermeasures to increase roadway safety. The list below includes specific actions related to curvature and speeds while also noting the need for thoughtful intersection control/design and trail crossing enhancements.

**TABLE 8** Rural High-Speed Corridors: Actions & Implementation

Action	Timeframe	Cost	Action Leaders and Partners
Install enhanced delineation for horizontal curves for corridors along the HIN or HRN*	Immediate	\$	NCDOT, Municipalities
Install wider edge lines on high-speed rural roadways*	Mid	\$\$	NCDOT
Create a policy, procedure, and multi-agency team to conduct a Road Safety Audit for rural corridors along the HIN and in response to future KSI crashes	Immediate	\$	TPO, Municipalities, Counties
Review speed limits on the rural HIN, evaluate the speed limit change process, and explore rural corridors for design and signal improvements and speed limit reduction	Short	\$	NCDOT, Municipalities, Counties
Consider a roundabout-first policy to address speeds and dangerous intersections along rural high-speed corridors	Immediate	\$	TPO, NCDOT, Municipalities, Counties
Install high visibility and enhanced trail crossings (i.e., high visibility crossings, RRFBs, PHBs, raised crossings, neck downs, etc.) along rural corridors*	Short	\$\$	NCDOT, Municipalities
Create and adopt an intersection control/design selection policy	Immediate	\$	TPO, Municipalities



## Safe Routes to School

Increasing safety for students is an opportunity to protect one of the most vulnerable populations in each community and provide opportunities to educate children about mobility in the built environment. These actions are focused on changing infrastructure at and approaching schools to create safer and more intuitive infrastructure for all roadway users.

**TABLE 9** Safe Routes to School: Actions & Implementation

Action	Timeframe	Cost	Action Leaders and Partners
Install high-visibility crosswalks within a one-mile travelshed of all schools*	Immediate	\$	School Districts, Municipalities
Construct curb extensions and median refuge islands for street crossings within a half mile of all schools*	Short	\$\$	NCDOT, Municipalities, School Districts
Install separated bikeway facilities--separated bike lanes or shared use paths--along corridors that are within a half mile of schools*	Short	\$\$	NCDOT, Municipalities, School Districts
Install speed feedback signage along with RRFBs/PHBs for mid-block crossings within a half mile of all schools*	Short	\$\$	NCDOT, Municipalities, School Districts
Provide raised crosswalks at mid-block crossings and at intersections used for walking and bicycling to/from schools	Mid	\$\$\$	NCDOT, Municipalities, School Districts
Conduct targeted/automated enforcement of handheld device bans, distracted driving, yielding, and speeding within school zones	Short	\$	Law enforcement
Implement a comprehensive crossing guard program	Short	\$\$	NCDOT, Municipalities
Develop resident/ambassador program to support a local SRTS programs (i.e., counts, safety audits, infrastructure project review, etc.)	Immediate	\$	School Districts, Municipalities, SRTS
Create a walking and bicycling school bus leader guide and program development information	Immediate	\$	School Districts, Municipalities, SRTS
Create a traffic playground pop-up toolkit that can be used at local events to teach walking and bicycling in a playful manner	Immediate	\$	County health department, School Districts, Municipalities, SRTS, TPO
Identify locations for permanent traffic playgrounds and asphalt art locations that can support education and speed management	Short	\$\$	County health department, School Districts, Municipalities, SRTS, TPO
Adopt a Safe Routes to School Action Plan	Short	\$	Municipalities



## Traffic Calming on Local Streets

Reducing speed on local streets creates safer and more livable places for residents in communities across the region. Traffic calming actions emphasize changing streets to allow for shared spaces for a variety of users that are comfortable because of slower moving vehicles along streets and intersections.

**TABLE 10** Traffic Calming on Local Streets: Actions & Implementation

Action	Timeframe	Cost	Action Leaders and Partners
Implement road diets/lane removals to provide space for walking, bicycling, transit, green space, and/or on-street parking*	Short	\$\$\$	NCDOT, Municipalities
Develop a neighborhood slow streets program	Immediate	\$	Municipalities
Create a neighborhood traffic calming program to manage community traffic safety requests in a transparent, consistent, and equitable manner.	Short	\$	Municipalities
Deploy mini traffic circles, speed cushions, chicanes, neck downs, hardened centerlines, and curb extensions on residential streets to reduce vehicle speeds and cut through traffic	Short	\$\$	Municipalities
Install a network of bicycle boulevards/neighborhood slow streets to expand existing bicycle networks and reduce motor vehicle speeds	Mid	\$\$	Municipalities
Narrow travel lane widths along local streets at the corridor level or at strategic locations*	Short	\$\$	Municipalities



## Trail and Railroad Crossings

Similar to unsafe intersections, trail and railroad crossings impact the experience of roadway users and can present barriers to accessing key destinations. These actions identify opportunities to change crossing locations that prioritize trail users and coordinate the railroad companies to create strategic plans for future changes.

**TABLE 11** Trail and Railroad Crossings: Actions & Implementation

Action	Timeframe	Cost	Action Leaders and Partners
Daylight intersections (removing obstacles that impair sight lines) for all trail and railroad crossings*	Short	\$	NCDOT, Municipalities
Construct grade-separated crossings for trails at streets with posted speeds of greater than 45 mph*	Mid	\$\$\$	NCDOT, Municipalities
Install crossings arms and enhanced warning devices at all uncontrolled railroad crossings*	Mid	\$\$\$	NCDOT, NCRR, Other rail partners
Install lighting at all mid-block trail crossings*	Short	\$	NCDOT, Municipalities
Install RRFBs or PHBs for trail crossings on high-speed corridors until grade-separated crossing is constructed*	Short	\$	NCDOT, Municipalities
Coordinate with Railroad companies to create a strategic plan to address crossing locations	Mid	\$	Municipalities, Railroad Companies



## Unsafe Intersections

Intersections are inherently locations where multimodal conflicts exist due to the confluence of people walking, bicycling, using transit, and driving. As all these street users make decisions at an intersection, these actions guide how to reduce conflicts and exposure while creating a more intuitive design that prioritizes more vulnerable users.

**TABLE 12** Unsafe Intersections: Actions & Implementation

Action	Timeframe	Cost	Action Leaders and Partners
Implement Systemic Safety Improvements at highest risk rural intersections annually*	Short	\$\$	NCDOT
Implement daylighting at urban high risk and mid-block intersections with on street parking and near transit stops*	Short	\$\$	NCDOT, Municipalities
Add pedestrian countdown signals and Leading Pedestrian Intervals (LPIs) at high risk signalized intersections and adjacent to transit stops*	Immediate	\$\$	NCDOT, Municipalities
Study the implementation of automated enforcement for red light running in school zones	Short	\$	TPO, NCDOT, Municipalities, School District
Remove permissive left turns during active pedestrian phases*	Short	\$	NCDOT, Municipalities
Tighten turning radii to reduce turning speeds and include truck aprons on freight routes*	Mid	\$\$\$	NCDOT, Municipalities
Consider a roundabout-first policy to address speeds and dangerous intersections along the HIN and high-risk corridors	Immediate	\$	NCDOT, Municipalities Counties, TPO
Close slip lanes where applicable, starting with the HIN	Mid	\$\$\$	NCDOT, Municipalities
Deploy protected intersections for pedestrians and bicyclists along multilane arterials, transit corridors, and where bikeways exist or are planned	Mid	\$\$\$	NCDOT, Municipalities
Use intersection control/design selection process to determine appropriate intersection treatments	Short	\$	Municipalities





## Behavior and Distraction

Addressing behavior of roadway users is one part of increasing safety and aligns with the Safe Road User element of the Safe System Approach. These actions should be used alongside other actions that make physical changes to the streets.

**TABLE 13** Behavior and Distraction: Actions & Implementation

Action	Timeframe	Cost	Action Leaders and Partners
Establish county metrics for seatbelt and car seat public education campaigns	Short	\$	TPO, Law enforcement, NCDOT
Conduct High Visibility Enforcement for seatbelts and impaired driving	Short	\$	Law enforcement
Promote and implement safe driving and anti-distraction messaging and policies	Short	\$	TPO, Law enforcement, NCDOT
Host community conversations about roadway safety.	Short	\$	TPO, Local governments, Trauma-Centers, Local advocacy groups
Develop a program for emergency responders to tell their stories about roadway safety that can be shared with communities to emphasize the impact fatal and serious injury crashes have on people	Short	\$	TPO, Trauma-Centers, Law enforcement, Local advocacy groups



## Land Development Practices and Procedures

The Safe System Approach is grounded in the reality that increasing safety will require making changes to the system and not only individual parts. Land use impacts on the transportation network are important and the policies and plans that guide development are an opportunity to make transportation safety changes.

**TABLE 14** Land Development Practices and Procedures: Actions & Implementation

Action	Timeframe	Cost	Action Leaders and Partners
Deploy access management strategies to combine driveways to adjacent properties, provide cross-access between developments, and construct medians to reduce conflicts near driveways and intersections	Mid	\$	Municipalities
Incorporate into the TPO Federal Funding Policy a regional Project Evaluation Framework to exclude undivided multi-lane highways from regional funding priorities. Every multilane road must have a median (preferred) and/or turn lane (at a minimum)	Short	\$	TPO, NCDOT
Develop guidance and coordinate with external stakeholders to ensure that access for people walking, bicycling, and using transit is maintained during roadway or site construction and special events	Immediate	\$	Municipalities
Integrate the HIN into project and development reviews	Immediate	\$	TPO, NCDOT, Municipalities
Update, adopt, and implement land use, Transportation Demand Management (TDM), and street design policies that increase safety, reduce Vehicle Miles Travelled (VMT), and decrease dependence on single-occupancy vehicles (SOV) trips	Short	\$	TPO, CPRC, Municipalities
Review and update land use policies and development standards to prioritize the safety of all road users (e.g., block size, crosswalk spacing, access management)	Immediate	\$\$\$	Municipalities
Update local and regional plans and policies to be inclusive of all modes and ensure safety is a primary priority. Plans include comprehensive plans, land use plans, mode-specific plans, etc.	Immediate	\$	Local Government Agencies



## Vulnerable Road Users at Night

Roadway safety should not be dependent on the time of day or the transportation mode of the person taking the trip. Across the Triangle West TPO region, there are opportunities to make changes that will increase visibility and reduce exposure for people walking and bicycling, no matter the trip purpose—commuting to/from work for a night shift, leaving a local evening event, or exercising early in the morning.

**TABLE 15** Vulnerable Road Users at Night: Actions & Implementation

Action	Timeframe	Cost	Action Leaders and Partners
Install street lighting along high-frequency transit corridors, specifically at transit stops and crossings	Mid	\$\$\$	NCDOT, Municipalities
Deploy high visibility crosswalks*	Immediate	\$	NCDOT, Municipalities
Install RRFBs or PHBs to catch the attention of drivers, specifically at night*	Short	\$\$	NCDOT, Municipalities
Narrow lane widths to support traffic calming and reduce crossing distances for pedestrians and bicyclists.	Mid	\$\$	NCDOT, Municipalities
Conduct night-time Road Safety Audits along key high-risk roadways and for fatal or serious injury crashes that involve a VRU at night	Immediate	\$	TPO, NCDOT, Municipalities
Install pedestrian-scale lighting strategically along the HIN and high-risk roadways, especially at trail crossings and transit stops, to improve visibility to drivers*	Mid	\$\$\$	NCDOT, Municipalities





# 106

## **Metrics and Accountability**



The Triangle West TPO Vision Zero Plan is a commitment along with an initial set of goals and actions to achieve zero fatal and serious injury crashes on roadways across the region by 2050. However, Vision Zero must be more than a document; it must be embraced, discussed, emphasized, reinforced, and acted upon every day. This Plan must be a living document that unites people across agencies, departments, organizations, and the region to prioritize roadway safety.

## Performance Metrics

There must be accountability at a variety of levels for eliminating fatalities and serious injury crashes. Triangle West TPO will need to monitor and report the progress and impact of Plan actions related to safety strategies. Evaluation and regular reporting are essential in understanding whether actions, tactics, and approaches are working. If certain actions are not successful, not moving fast enough, or not working for another reason, the Triangle West TPO should assess and modify actions as needed. However, it is critical that monitoring does not reduce or minimize the focus on the ultimate performance measure of eliminating fatal and serious injuries on all roadways in the Triangle West region.

Measuring progress and success can be accomplished in a variety of ways—frequent tracking, data dashboards, and local agency reports. Routine updates to performance metrics when new projects are funded,

designed, and implemented highlight changes and mark milestone efforts related to increasing roadway safety. While the items that can be measured can change over time, key performance metrics may include but are not limited to:

- Number and rates of fatal and serious injury crashes
- Changes in the number and rates of fatal and serious injury crashes over time
- Crashes along the HIN and changes in crash rates over time
- Crashes involving bicycles and pedestrians
- Crashes resulting from unsafe speeds
- Crashes on NCDOT roadways versus local roadways
- Crashes occurring on roadways in communities where a high number of indicators of potential disadvantage exist

## Target Setting Framework

### Moving Toward Zero

Target setting for the Triangle West TPO should emphasize the ultimate goal – eliminating fatal and serious injuries across the region. Using the performance metrics, the following is a framework for setting annual targets and five-year milestones. Each element of the framework includes context (local or NCDOT), crashes by mode, along with goals for annual and milestone changes. Aiming to meet or exceed each of these annual goals will ensure the Triangle West TPO and member agencies are successful in achieving the goal of eliminating fatal and serious injuries.

# How to Use the Target Setting Table

## A. Purpose of Framework

The Target Setting Framework helps track progress toward Vision Zero by setting annual and five-year targets for fatal and serious injury crashes. This table is designed to provide a structured way to measure changes over time and ensure data-driven decision-making.

## B. Benchmark & Milestone Years

- 2025 is the Benchmark Year– This serves as the starting point to measure progress
- 2030 is the Milestone Year– This is the target year for achieving significant reductions in crashes
- Each year, agencies compare new data to both the benchmark year (2025) and the previous year to assess progress

## C. Tracking Progress Annually

- The table should be updated each year to document:
  - The number and rate of fatal and serious injury crashes
  - The percentage change compared to both 2025 (baseline year) and the previous year
  - Trends across different roadway types (urban/rural) and user groups (pedestrians, cyclists, motorists)

## D. Using the Table for Decision-Making

- A decrease in crash numbers/rates suggests that safety strategies are working and should be continued or expanded
- An increase in crashes may indicate the need for new interventions, infrastructure improvements, or policy adjustments
- Comparing data across different modes (pedestrians, cyclists, motorists) helps prioritize equitable safety investments

## E. Updating Targets & Adjustments

- Targets are not static—they should be reviewed annually to reflect changing roadway conditions, new safety initiatives, and regional trends
- The framework should guide funding decisions, policy changes, and infrastructure improvements based on data-driven insights

A		B		C		D				E	
Context	Type	1-Year Target				5-Year Milestone					
		Number		Rate		Number		Rate			
		Urban	Rural	Urban	Rural	Urban	Rural	Urban	Rural		
NCDOT											
	PEDESTRIAN										
	BICYCLIST										
	MOTORIST										
	SUBTOTAL										
LOCAL											
	PEDESTRIAN										
	BICYCLIST										



## Fatal Crashes

**TABLE 17** Annual and Five-Year Target Framework for Fatal Crashes

Context	Type	1-Year Target				5-Year Milestone			
		Number		Rate		Number		Rate	
		Urban	Rural	Urban	Rural	Urban	Rural	Urban	Rural
<b>NCDOT</b>									
	PEDESTRIAN								
	BICYCLIST								
	MOTORIST								
	<b>SUBTOTAL</b>								
<b>LOCAL</b>									
	PEDESTRIAN								
	BICYCLIST								
	MOTORIST								
	<b>SUBTOTAL</b>								
<b>TOTALS</b>									

## Serious Injury Crashes

**TABLE 16** Annual and Five-Year Target Framework for Serious Injury Crashes

Context	Type	1-Year Target				5-Year Milestone			
		Number		Rate		Number		Rate	
		Urban	Rural	Urban	Rural	Urban	Rural	Urban	Rural
<b>NCDOT</b>									
	PEDESTRIAN								
	BICYCLIST								
	MOTORIST								
	<b>SUBTOTAL</b>								
<b>LOCAL</b>									
	PEDESTRIAN								
	BICYCLIST								
	MOTORIST								
	<b>SUBTOTAL</b>								
<b>TOTALS</b>									

# Annual Report

In addition to tracking performance measures, Triangle West TPO should produce an annual report to summarize accomplishments and communicate planned next steps toward eliminating fatal and serious injury crashes. A true commitment to the Safe System Approach does not mean that results are immediate; however, annual reporting is a valuable tool to keep roadway safety at the forefront until the goal of zero is accomplished. Some metrics will be reported annually while others will be updated as resources allow depending on the complexity of the data. Other topics and metrics to consider for annual reporting include:

- Efforts to impact factors that increase the likelihood of fatal and serious injury crashes such as speed, visibility, driving under the influence, or education, among others.
- Funding associated with safety projects across the region
- Funding invested in infrastructure improvements in Disadvantaged Communities as a percentage of all transportation projects.
- Changes in land use policies or practices to increase safe connections between residential areas and employment locations.
- Projects completed (including corridor or spot treatments)
- Locations and number of street segment and intersection improvements made on the High Injury Network.
- Locations and number of off-street segment improvements (sidewalks, multi-use paths, bike trails) made adjacent to the High Injury Network.
- Changes in KSI crashes after projects and have been completed
- Proven Safety Countermeasures deployed

# Sharing Responsibility for Vision Ze

To carry out everything presented in this Vision Zero Plan and to eliminate fatalities and serious injury crashes on all roadways across the Triangle West region, everyone—from elected officials and municipal staff to local employers and residents of all ages and abilities— will need to consider the actions they can take, individually and collectively. The Triangle West TPO, NCDOT, and member agencies all have key roles in building a safer transportation system in the region.

- Triangle West TPO: Develop resources, identify and secure project funding, provide technical support
- NCDOT: Safer project development, funding resources, partnerships, clear guidance for safety projects
- Member Agencies: Adopt safety-focused plans and policies, initiate safety programs, prioritize safety projects, take action (both responding to crashes and deploying proactive countermeasures)

We all have a personal responsibility to make the right choices and to communicate the importance of why roadway safety matters—making the region's efforts even more effective. The goal of zero is not simple, but it is important because everyone deserves to arrive home safely.



