CITY OF RALEIGH SAFETY ACTION PLAN



Safe Streets for All

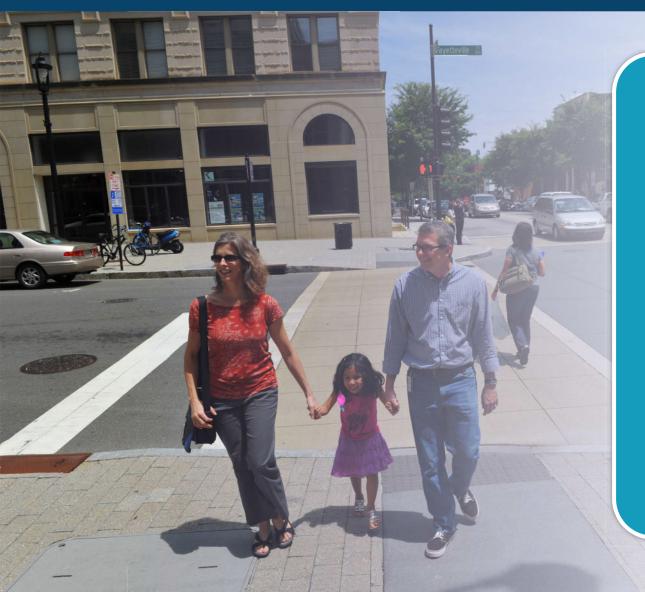
Community Update

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VISION STATEMENT



The City of Raleigh is committed to eliminating all fatal and serious injury traffic crashes, creating a safer and more resilient transportation network for all users.

DRAFT

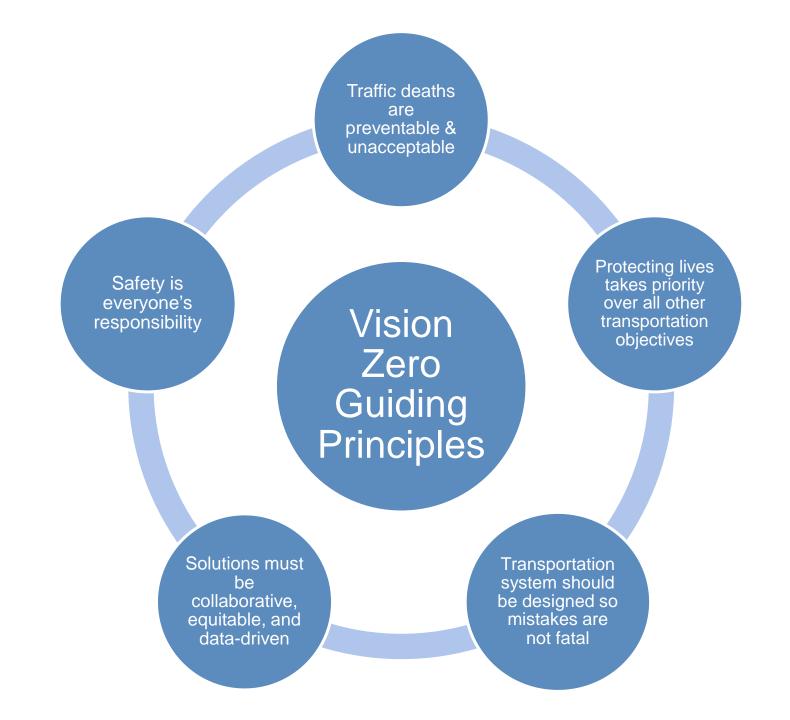
GOALS AND OBJECTIVES

- Reduce fatal and serious injury crashes by 25% every five years and by 100% by 2045
- Enhance Roadway Safety Infrastructure
- Promote Safe Driving Behavior
- Evidence-based Data Analysis and
 Transparent Reporting
- Foster Community Engagement and Collaboration



WHAT IS VISION ZERO?

Vision Zero is a goal to reduce & eliminate serious injuries and fatalities along our transportation network, while increasing safe, healthy, and equitable mobility for all.



TRADITIONAL VS. NEW APPROACH

VS

TRADITIONAL APPROACH

Traffic deaths are **INEVITABLE**

PERFECT human behaviour

Prevent COLLISIONS

INDIVIDUAL responsibility

Saving lives is **EXPENSIVE**

VISION ZERO

Traffic deaths are **PREVENTABLE**

Integrate **HUMAN FAILING** in approach

Prevent FATAL AND SEVERE CRASHES

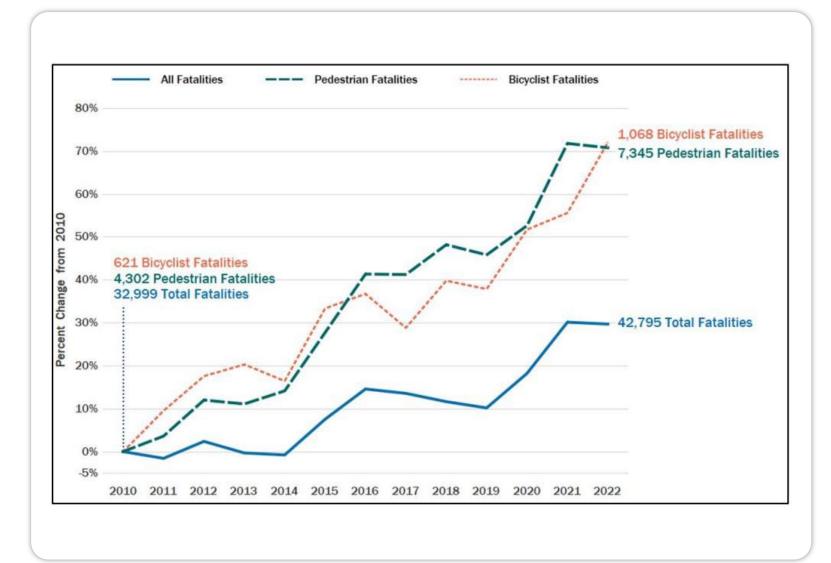
SYSTEMS approach

Saving lives is **NOT EXPENSIVE**

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TRAFFIC FATALITIES ON THE RISE

Greatest Increase in Pedestrian and Bicyclist





The Exceptionally American Problem of Rising Roadway Deaths

Why other rich nations have surpassed the U.S. in protecting pedestrians, cyclists and motorists.

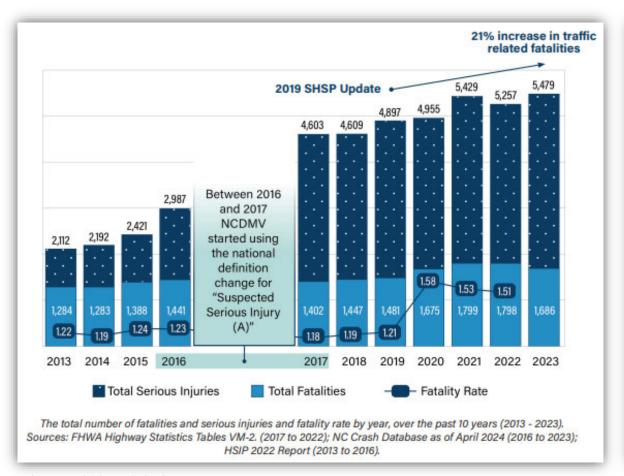
The New York Times



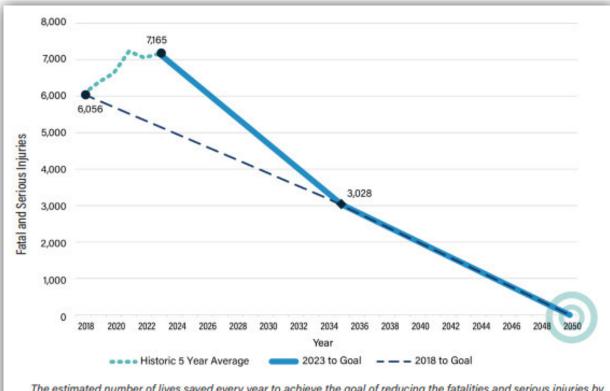
CHANGING THE TRAJECTORY

NC Fatalities and Population Growth are Increasing

Traffic-related fatalities have increased by nearly 21% since the 2019 Update



In order to return to the path set in 2019, North Carolina would need to experience a 9% decrease in fatalities each year.



The estimated number of lives saved every year to achieve the goal of reducing the fatalities and serious injuries by half by 2035 and moving towards zero by 2050. The graph illustrates the discrepancy between the goal based on the 2019 Update and the 2024 Update. Sources: NC Crash Database as of January 2024 (2017 to 2023); Previous NC SHSP (2014 to 2018 Average).

Source: 2024 NC SHSP

FIRST NATIONAL VISION ZERO GOAL & NATIONAL ROADWAY SAFETY STRATEGY



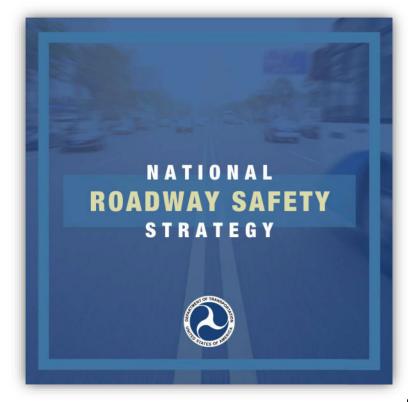
VISION-41RONETWORK

66

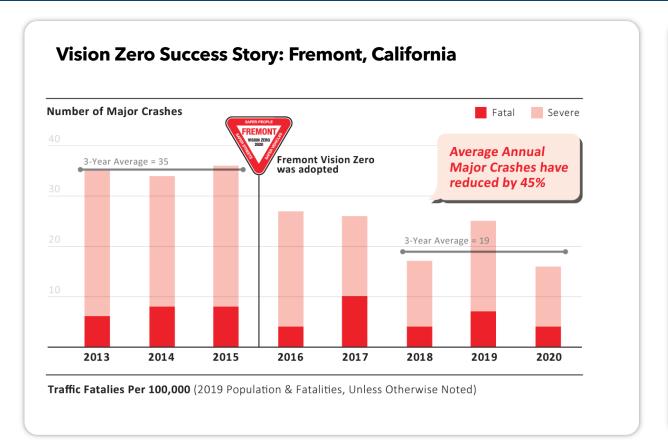
Today we commit that our goal is this: Zero. *Our goal is zero deaths*; a country where, one day, nobody has to say goodbye to a loved one because of a traffic crash.

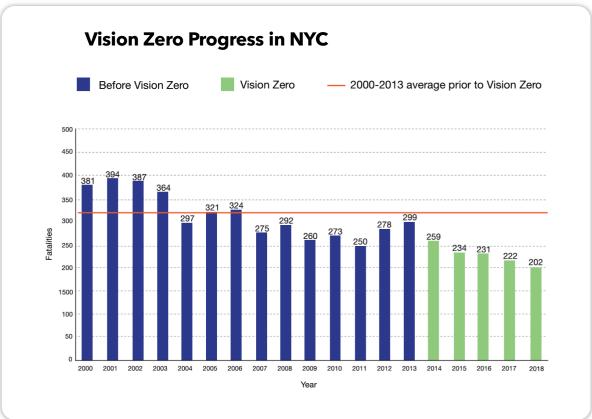
Pete Buttigieg, U.S. Secretary of Transportation, on National Roadway Safety Strategy release, January 27, 2022

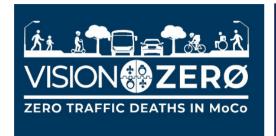




NATIONWIDE PROGRESS









Vision Zero Progress in Montgomery County, MD





WHAT WORKS

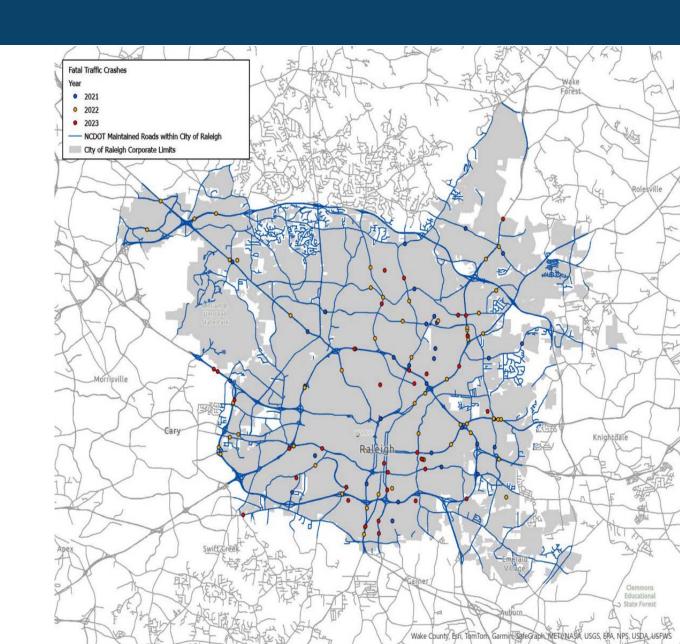


- 1 Focusing on managing speeds
- **Elevating health equity**
- Hastening change: Quick-build projects, pilots
- Changing the status quo; Institutionalizing that change

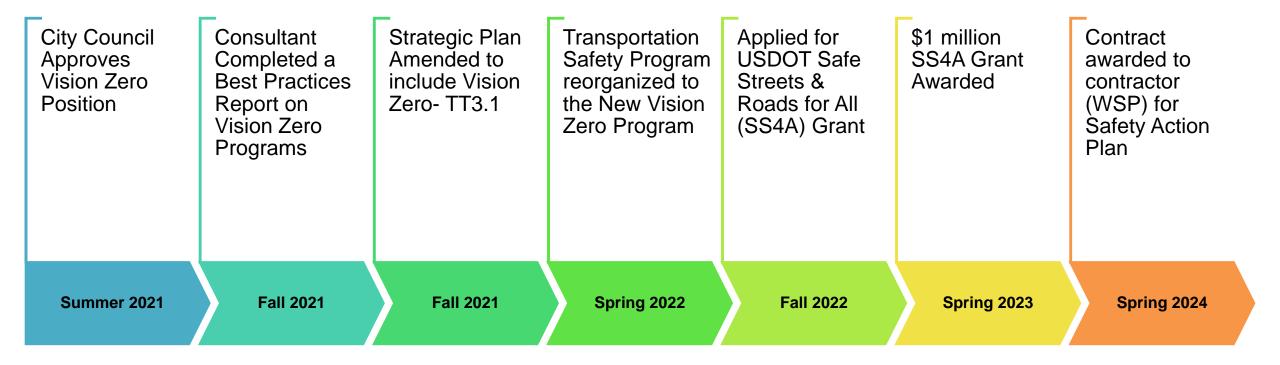
CURRENT CONDITIONS

145 fatalities total (vehicle, bike, & ped) from 2021 to 2023

- 33% of fatalities involved a pedestrian or cyclist
- 69% of fatalities were the drivers
- 41% of fatalities were in between the ages of 20 and 40
- 70% of fatalities were people who identified as Black (53%) or Hispanic (17%)



$\frac{S \mid S}{4 \mid A}$ RALEIGH'S PATH TO ZERO



VISION ZERO PROGRAM RESPONSIBILITIES

General Safety Improvements - City & NCDOT Roadways

- Signal studies, speed studies, & crash diagrams
- Recommend mitigating measures/projects to improve safety, correct crash patterns, and help vulnerable users
- Tactical Projects (High Impact, Low Cost)

Since 2013, NCDOT/City of Raleigh have partnered to construct over 50 projects totaling more than \$15 million.

Another 40 projects currently in design or construction totaling to more than \$12.5 million.





VISION ZERO PROGRAM RESPONSIBILITIES

School Zone/Area Management (130+ schools)

Update and improve school zones/areas

Work with Neighborhood Traffic Management Program (NTMP) & combine

projects around schools

- Improvement & Traffic Calming Projects around Schools
 - Signalized Intersections
 - RRFB
 - Multiway Stop Conversions
 - Speed Limit Reductions
 - Flatwork, Signs, Pavement Markings





VISION ZERO PROGRAM RESPONSIBILITIES

Streetlight Program

- Install lighting in public right of way (proven counter measure)
- City leases approximately 35,000 streetlights from Duke Energy
- 400+ streetlights are added annually from new development, roadway projects, and citizen requests
- Safety projects outside of Duke's offerings are part of program

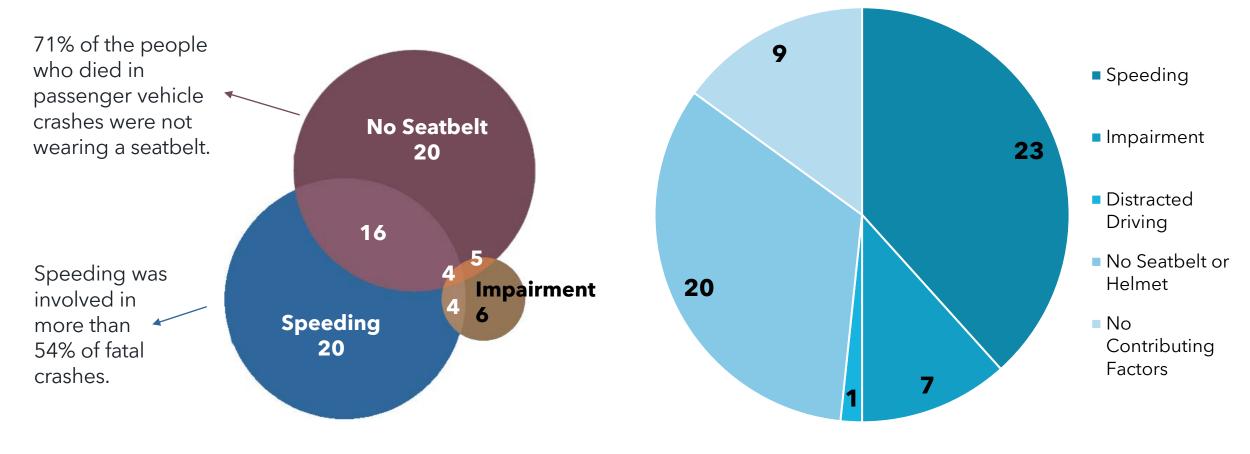
Street Lighting can reduce nighttime injury pedestrian crashes at intersections up to 42%. 90% of Pedestrian Fatalities in 2023 occurred at night (60% of all fatalities).





CONTRIBUTING FACTORS IN FATAL CRASHES

Dangerous behaviors - such as speeding, driving while impaired, driving while distracted, or failing to wear a seatbelt - were involved in 85% of all fatal crashes in 2023.



STRATEGIES FOR IMPROVING SAFETY



Engineering strategies
Redesign of roadways
and intersections





Operational strategies Changes to signing, marking, or signals

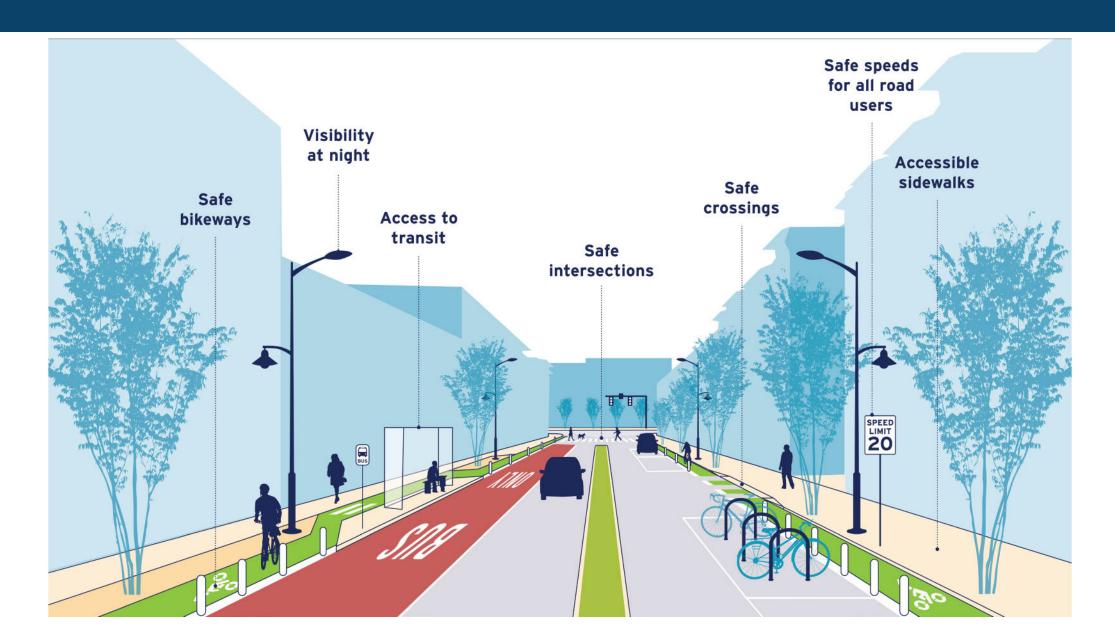




Behavioral strategies
Non-construction projects
to modify driver behavior



DESIGNING SAFE STREETS





WHAT WILL BE IN THE ACTION PLAN?



LISTEN TO RALEIGHITES

Gather a broad range of community input on roadway safety and behaviors, especially the needs of vulnerable users.



IDENTIFY HIGH CRASH CORRIDORS

Locate the roadway segments with the most severe and fatal injury crashes.



UNDERSTAND CRASH FACTORS

Understand which factors contribute to crashes in Raleigh–especially severe and fatal crashes.



RECOMMEND COUNTERMEASURES Identify a set of tools—such as roadway design changes, policy updates, and educational programs—that Raleigh can use to improve safety across the transportation network.



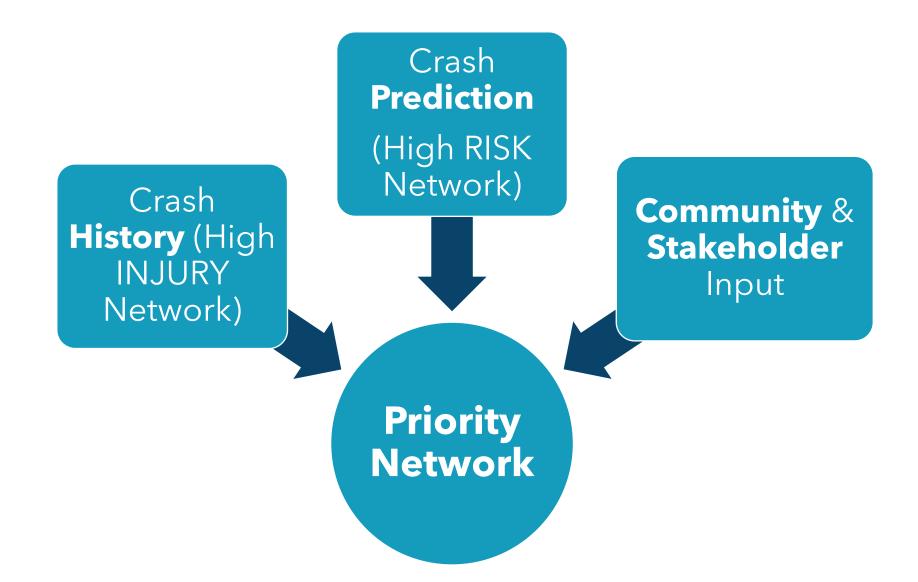
PREPARE FOR FUNDING OPPORTUNITIES

Set Raleigh up for future funding opportunities to implement changes that make our roadways safer.

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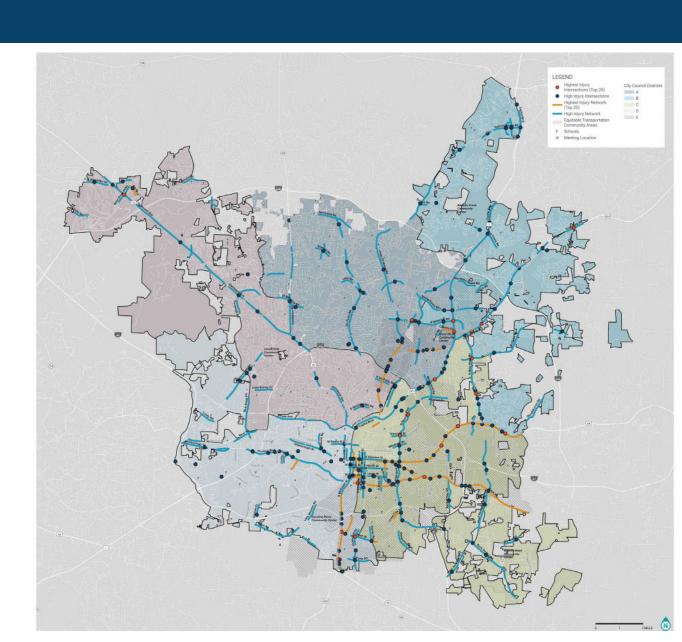
IDENTIFYING LOCATIONS FOR SAFETY STRATEGIES

Sourcing and prioritizing safety projects

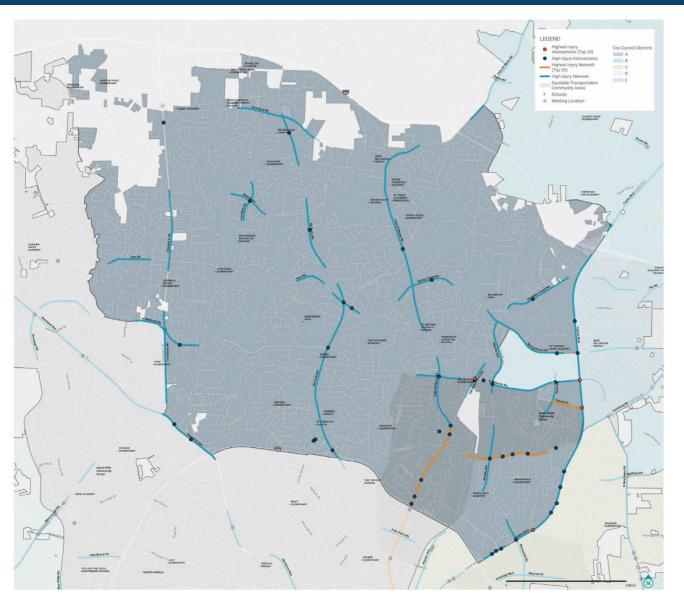


WHAT IS A HIGH INJURY NETWORK?

- Map corridors with high degree of fatality and injury
- Helps prioritize street network for safety countermeasures
- Helps make traffic crash reductions seem reasonable: e.g. 68% of fatal and serious injury crashes happened on only 13% of roadways



DISTRICT A - HIGH INJURY NETWORK





High Injury Network in District A (Top 20)

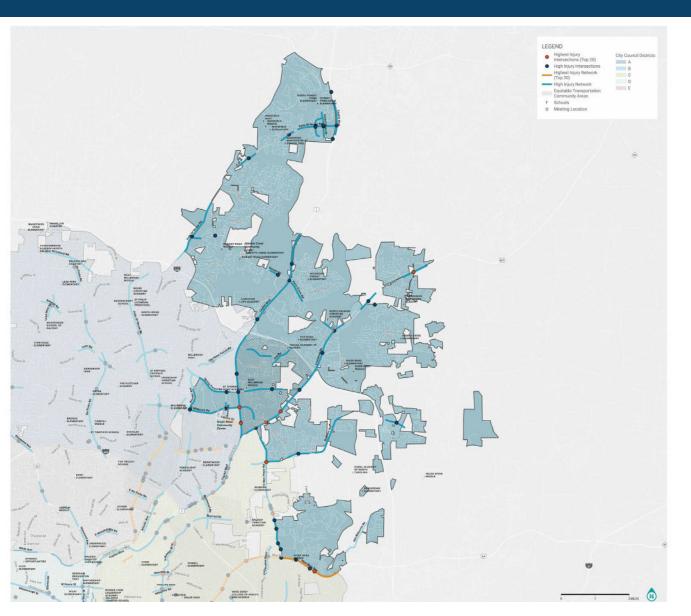
- Calvary Dr
- Wake Forest Rd
- New Hope Church Rd



High Injury Intersections in District A (Top 20)

- Capital Blvd at Huntleigh Dr
- Capital Blvd at Calvary Dr
- E Millbrook Rd at Old Wake Forest Rd
- Capital Blvd at Millbrook/New Hope Rd

DISTRICT B - HIGH INJURY NETWORK





High Injury Network in District B (Top 20)

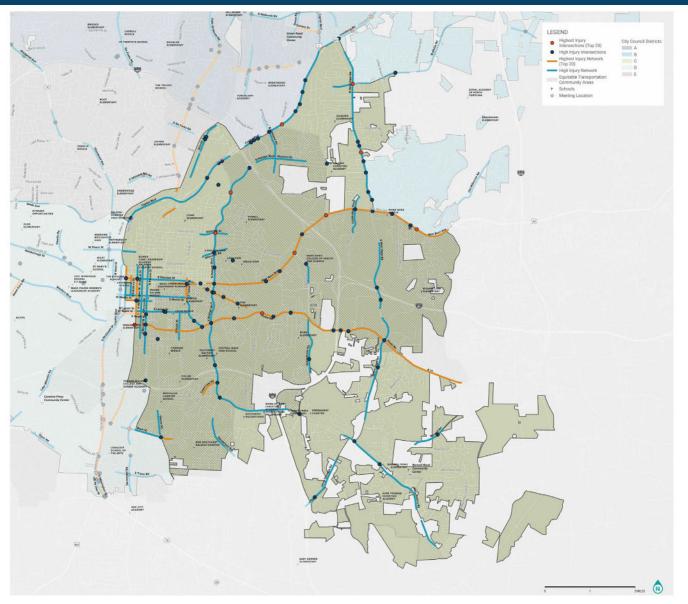
New Bern Ave



High Injury Intersections in District B (Top 20)

- Capital Blvd at Calvary Dr
- Louisburg Rd at Forestville Rd
- Louisburg Rd at Dansey Dr
- N New Hope Rd at Buffaloe Rd
- Louisburg Rd at Fox Rd
- New Bern Ave at N Rogers Ln
- Capital Blvd at Millbrook/New Hope Rd

DISTRICT C - HIGH INJURY NETWORK





High Injury Network in District C (Top 10)

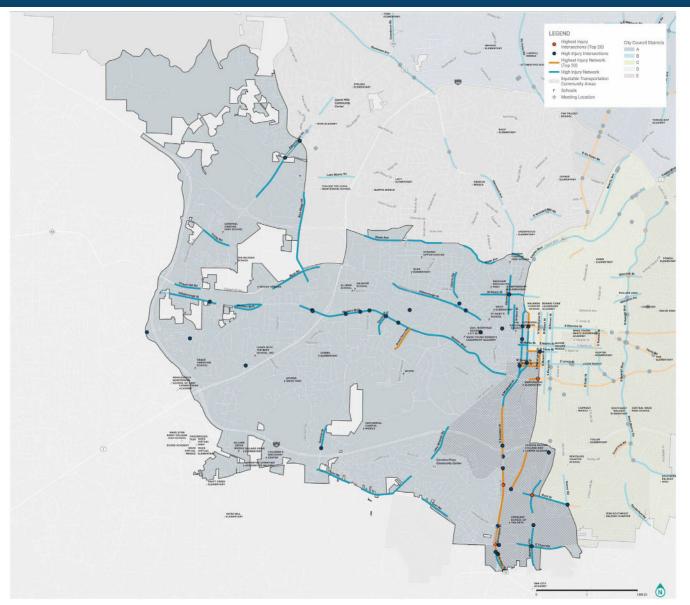
- W Edenton St
- N McDowell St
- N Tarboro St
- E South St
- W Davie St
- N Salisbury St
- Wake Forest Rd



High Injury Intersections in District C (Top 10)

- New Bern Ave at Trawick Rd
- Capital Blvd at Huntleigh Dr
- Poole Rd at Rose Ln
- New Hope Rd at Easthampton Dr

DISTRICT D - HIGH INJURY NETWORK





High Injury Network in District D (Top 20)

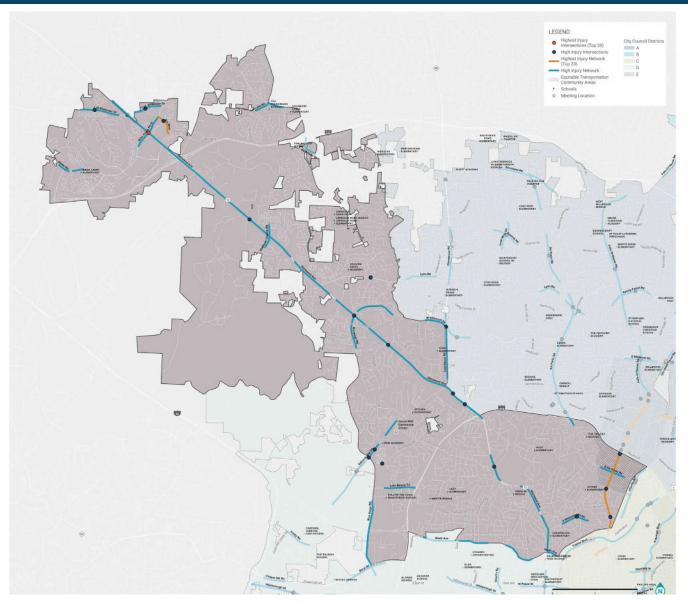
- N McDowell St
- E and W South St
- W Davie St
- S Saunders St
- W Lenoir St
- MLK Jr Blvd
- Avent Ferry Rd
- S Wilmington St



High Injury Intersections in District D (Top 20)

- US-401 at Tryon Rd
- Hammond Rd at Rush St
- S Saunders Rd at Ileagnes Rd
- MLK Jr Blvd at S Wilmington St

DISTRICT E - HIGH INJURY NETWORK





High Injury Network in District E (Top 20)

- Wake Forest Rd
- ACC Blvd



High Injury Intersections in District E (Top 20)

• US 70 at Brier Creek Pkwy

WHAT IS A HIGH RISK NETWORK?

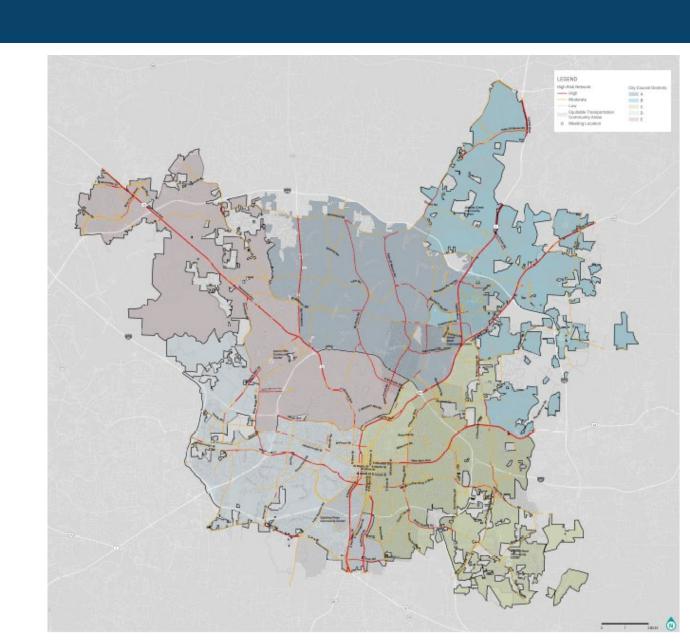
- Focuses on potential safety risk rather than crash history
- Goal is to help prioritize roadway types or features for safety intervention
- Risk is understood as the proportion of weighted fatal & injury crashes to roadway miles in an area:

Risk Factors used for the HRN
Traffic Operation
Functional Class
Number of Through Lanes
AADT Class
Speed Limit
Equity Area
Bus Route
Railroad Crossings
Land Use

- Forward looking (not based on crash history)
- Based on systemic risk analysis (grouping attributes)
- Points-Based (i.e. 1-10, 1-100)
- Validated based on crash summary stats

WHAT IS A HIGH RISK NETWORK?

- Map corridors with high risk of fatal and serious injury crashes
- Helps identify street network for preventative safety countermeasures
- Highest risk factors include:
 - Number of Through Lanes
 - AADT
 - Functional Class
 - Equity Area



$\frac{S|S}{4|A}$ **NEXT STEPS**



Take the Online Survey to Provide Your Input on Transportation
Safety Priorities!





