

City of Raleigh  
Transportation Department

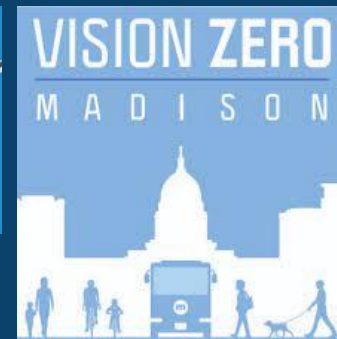
# Vision Zero Program

City Council Work Session  
February 14, 2023



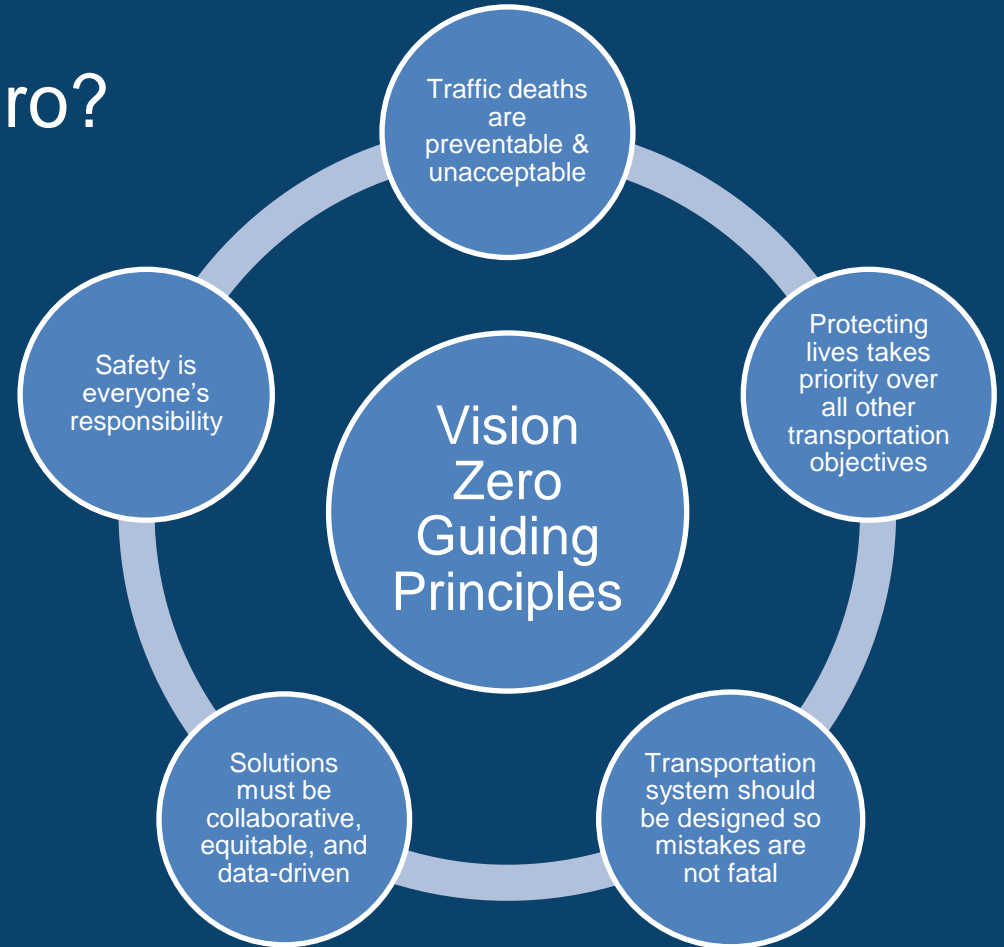
# Agenda

- What is Vision Zero?
- Vision Zero Program Team & Responsibilities
- Current Conditions
- Accomplishing Vision Zero
- What We've Already Accomplished
- Next Steps



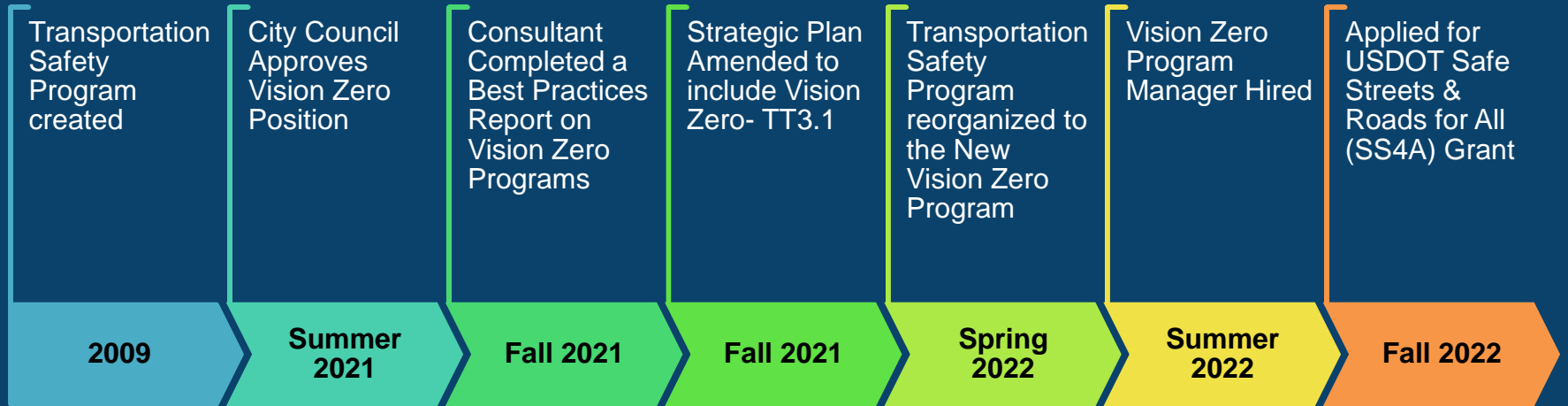
# What is Vision Zero?

- 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.





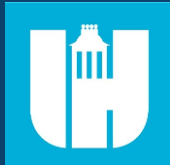
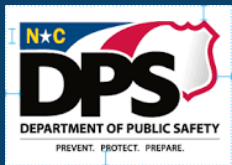
# How We Got Here





# Vision Zero Program Team

- Transportation Dept: Vision Zero Program Team
  - Jed Niffenegger, PE- City Traffic Engineer
  - Sean Driskill, PE- Vision Zero Program Manager
  - James Sudano, PE- City Traffic Safety Engineer
  - Dustin Brice- Streetlight Program Administrator/GIS Coordinator
  - Position Advertised- Traffic Safety Engineer
- External & Internal Partners



- Raleigh PD & Fire, BPAC , Development Services, ES RD&C, Parks & Rec, Sign & Signal Shop, Transit, Mayor's Committee for Persons with Disabilities



# 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)
- School Zone/Area Management (130+ schools)
  - Update and improve school zones/areas
  - Work with Neighborhood Traffic Management Program (NTMP) & combine projects around schools
- Streetlight Program
  - Install lighting in public right of way (proven counter measure)



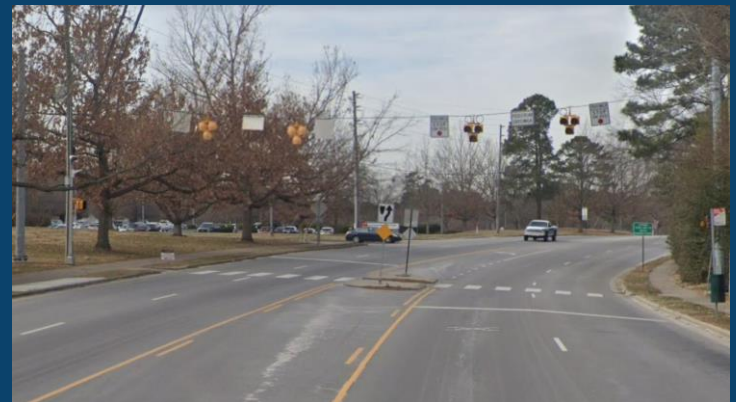
# General Safety Improvements- City & NCDOT Streets

- Identify areas of concern and develop improvements projects
- Since 2013, NCDOT has partnered with the City to construct more than 50 projects totaling to more than \$15 million.
- Another 40 projects currently in design or construction totaling to more than \$12.5 million

HAWK at Southeast Raleigh High



Before



After

# School Zones/Areas

## RRFB at Lacy Elementary School

- 130+ School Zones/Areas
  - WCPSS
  - Charter
  - Magnet
  - Private
- Improvement & Traffic Calming Projects around Schools
  - Signalized Intersections
  - RRFB
  - Multiway Stop Conversions
  - Speed Limit Reductions



Before



After





Raleigh

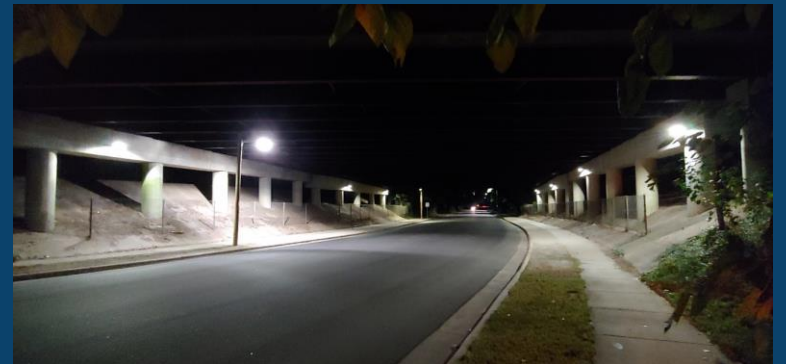
# Street Light Program

- Street Lighting can reduce nighttime injury pedestrian crashes at intersections up to 42%
- 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

Underpass Lighting: State Street at I-40



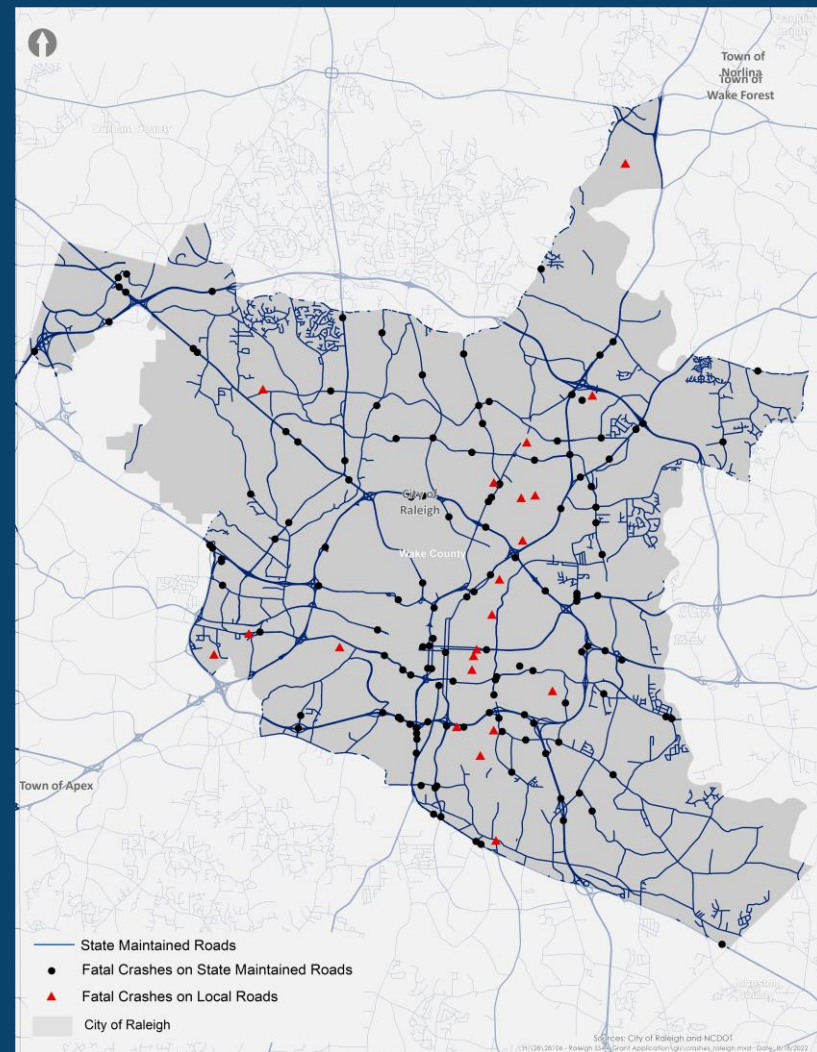
Before



After

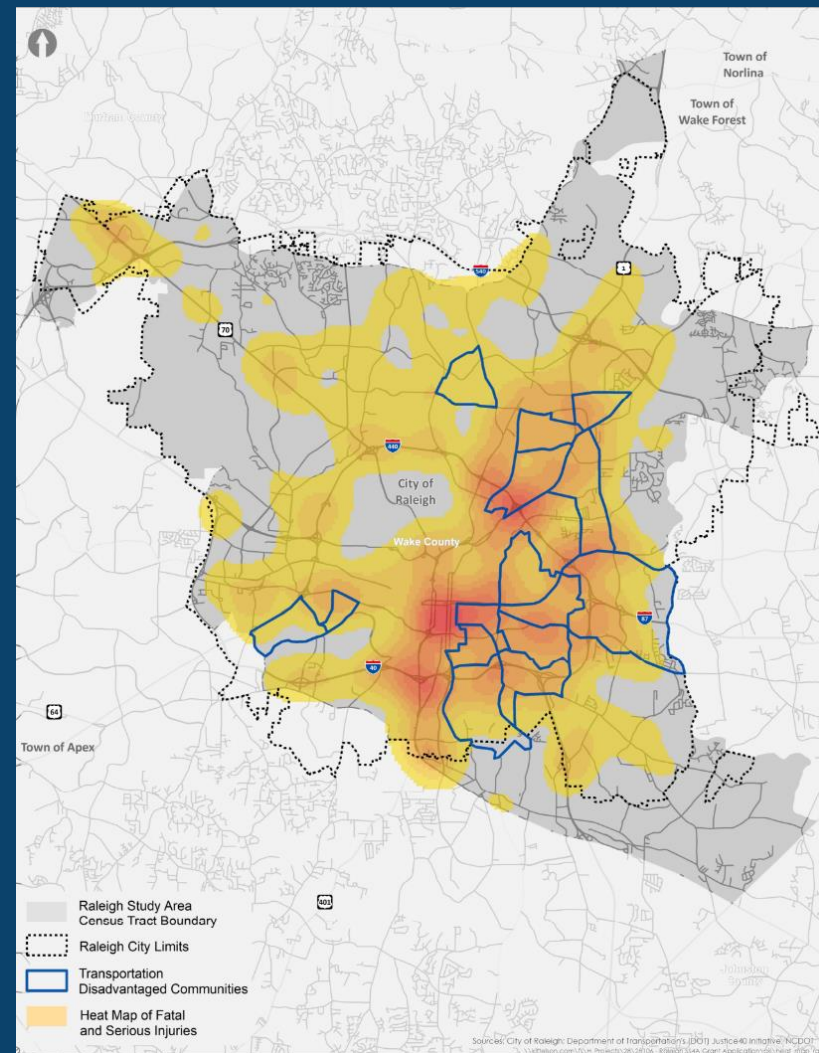
# Current Conditions

- 136 fatalities total (vehicle, bike, & ped) from 2016 to 2020
  - 42% of fatalities were the age of 55 or older
  - 35% of fatalities involved a pedestrian
  - 48% of fatalities were the drivers



# Current Conditions

- All fatalities & serious Injuries from 2016 to 2020
- Data drives decision making
  - Heat map helps identifies High Injury Network (HIN) locations
  - Underserved Communities Census Tracts making up around 18% of Raleigh's population





## Current Conditions (2022)

- 59 total fatalities as a result of 53 fatal crashes in 2022
  - 22,000 total crashes in Raleigh in 2022
- Fatality Location
  - 2 traffic fatalities occurred on private property
  - 6 traffic fatalities occurred on City maintained roadways
  - 51 traffic fatalities occurred on NCDOT maintained roadways
- Crash Type
  - 1 bike related & 24 pedestrian related
  - 30 car/truck/SUV related & 4 motorcycle/moped related



# Accomplishing Vision Zero

- Ensure Vision Zero **is the foundation** for all City Transportation programs;
  - Mobility, Strategy, & Infrastructure
  - Complete Streets (CSIP)
  - Neighborhood Traffic Management Program (NTMP)
  - Capital Improvement Projects (CIP)
  - Transportation Comprehensive & Long-Term Plans
  - Streetlight Program
  - Development Services





# Safe Streets & Roads for All (SS4A)

- Submitted SS4A Comprehensive Safety Action Plan Grant Application
  - Bipartisan Infrastructure Law passed in late 2021, USDOT appropriated \$5 billion in funds over the next 5 years specifically to help with Transportation safety and further develop VZ programs around the country
  - September 2022 Grant Application Submitted (Consultant)
    - 11 Letters of Support from External & Internal Stakeholder
  - \$1 million Project Cost– 80/20 match (\$50k pledge from NCDOT for matching funds)
  - COR awarded the grant from USDOT/FHWA on February 1, 2023
  - 18 to 24 months to draft Comprehensive Safety Action Plan (Consultant)
  - September 2024/2025- Submit SS4A Implementation grant application up to \$30 million



# What We've Already Accomplished

- Collaborated with NCDOT and have constructed and/or programmed approx. 90 spot safety projects totaling approx. \$30 million
- Improved approximately 50 school zones
- Downtown Pedestrian Improvements Project- Phase I
- Street Light Improvements
- Awarded SS4A Comprehensive Safety Action Plan Grant
- Speed Limit Reduction & Traffic Calming Projects



# Next Steps

- Continue doing what we have been but also...
- Develop a Vision Zero Task Force & Engagement Strategy
- Develop Vision Zero Program Webpage
- Leverage Federal Funding
- Pilot tactical improvements
  - Downtown “Artistic” Curb Extensions with Flexible Delineators Pilot Locations- Spring/Summer 2023
    - Salisbury St. at the Courthouse (east side)
    - Salisbury St. at Hargett St (All 4 Corners)
  - Downtown RRFB Locations- Spring/Summer 2023
    - Wilmington St at One Exchange Plaza midblock
    - Blount St at Moore Square midblock



# Questions?

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Vision Zero Program Manager

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