



VISION ZERO.

Vision Zero Partnership Leadership Committee Meeting



August 10, 2022
New Brunswick Performing Arts Center
3:45 PM - 5 PM

Middlesex County Office of Planning



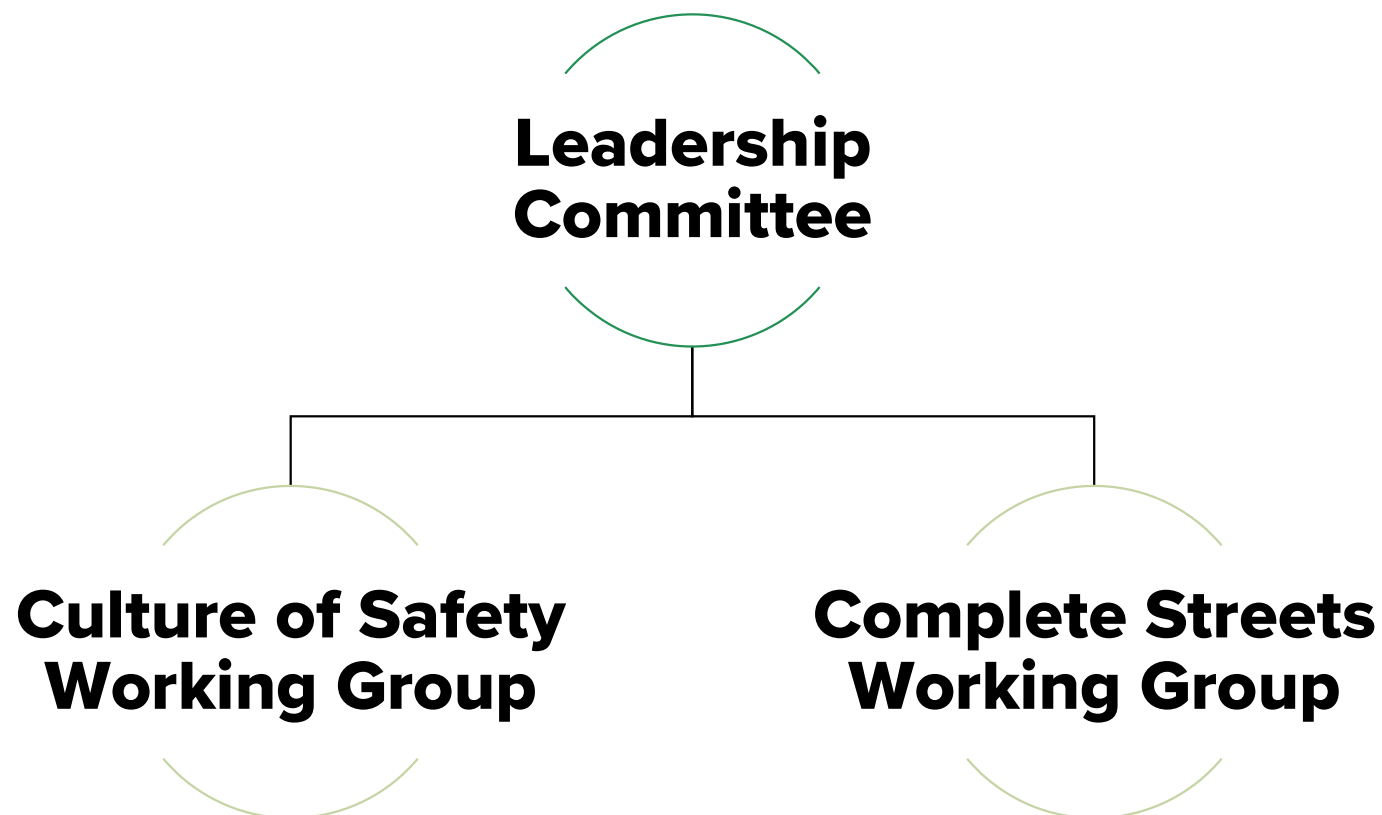


VISION ZERO.

COUNTY AND
MUNICIPAL ELECTED
LEADERS

FIRST RESPONDERS
PLANNERS
ENGINEERS
PUBLIC WORKS
HEALTH OFFICIALS
PROSECUTOR'S OFFICE
KMM
NJ DOT
NJTPA
AAA
AARP
OTHER STAKEHOLDERS

VISION ZERO PARTNERSHIP



Vision Zero Pledge

Middlesex County is committed to eliminating traffic fatalities and serious injuries on roadways in the county by 2040.

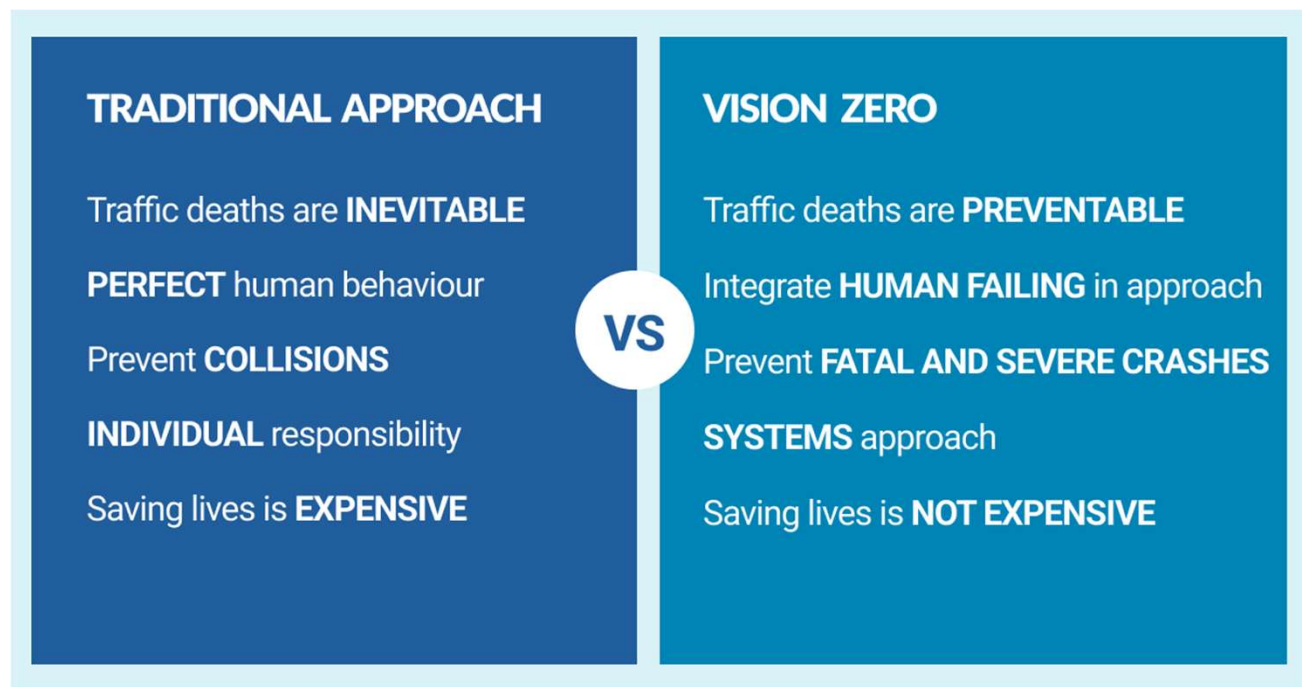
Middlesex County will work in partnership with municipalities, agencies, and other stakeholders to achieve this goal.

-Middlesex County Board of County Commissioners

July 21, 2022

VISION ZERO

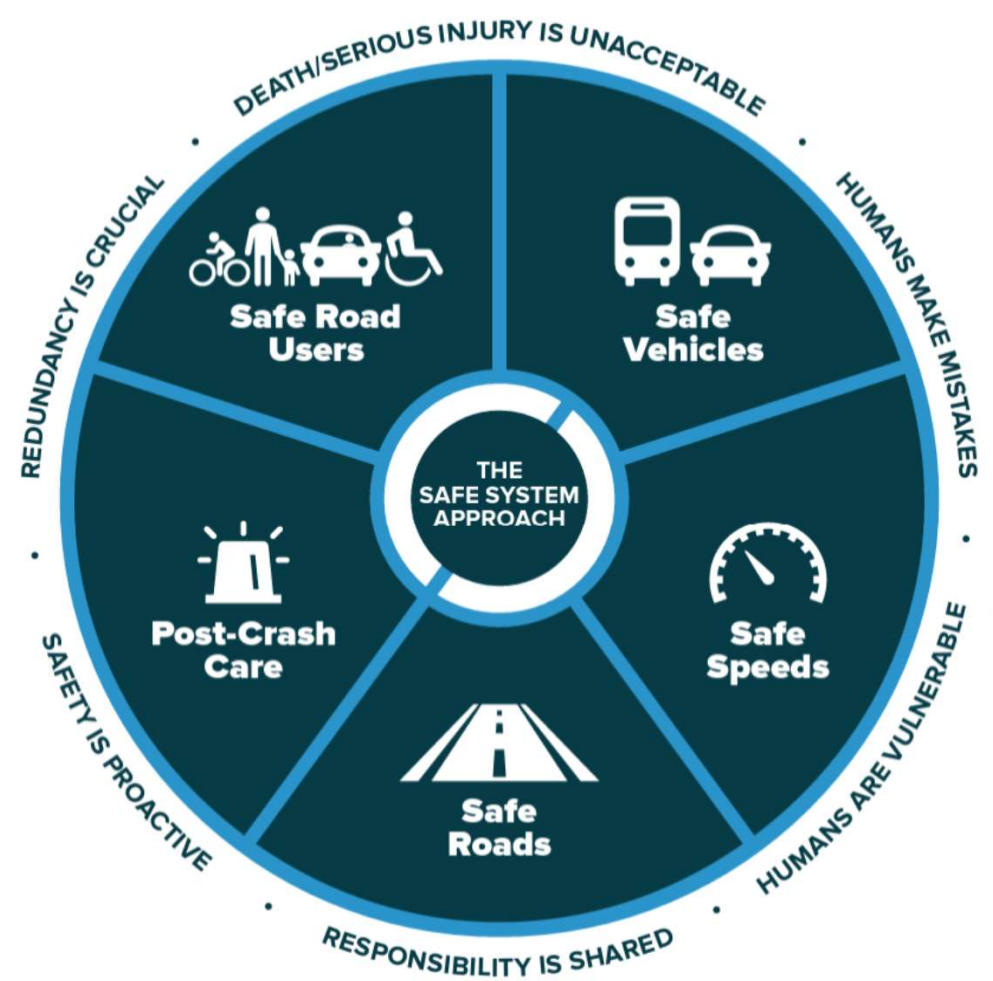
A strategy to eliminate all traffic fatalities and severe injuries, *while increasing safe, healthy, equitable mobility for all.* – VZ Network



VISION ZERO NETWORK



THE SAFE SYSTEMS APPROACH



HOW IS VISION ZERO IMPLEMENTED?

REDESIGN THE ROAD

Livingston Avenue, New Brunswick, NJ



NARROW LANES

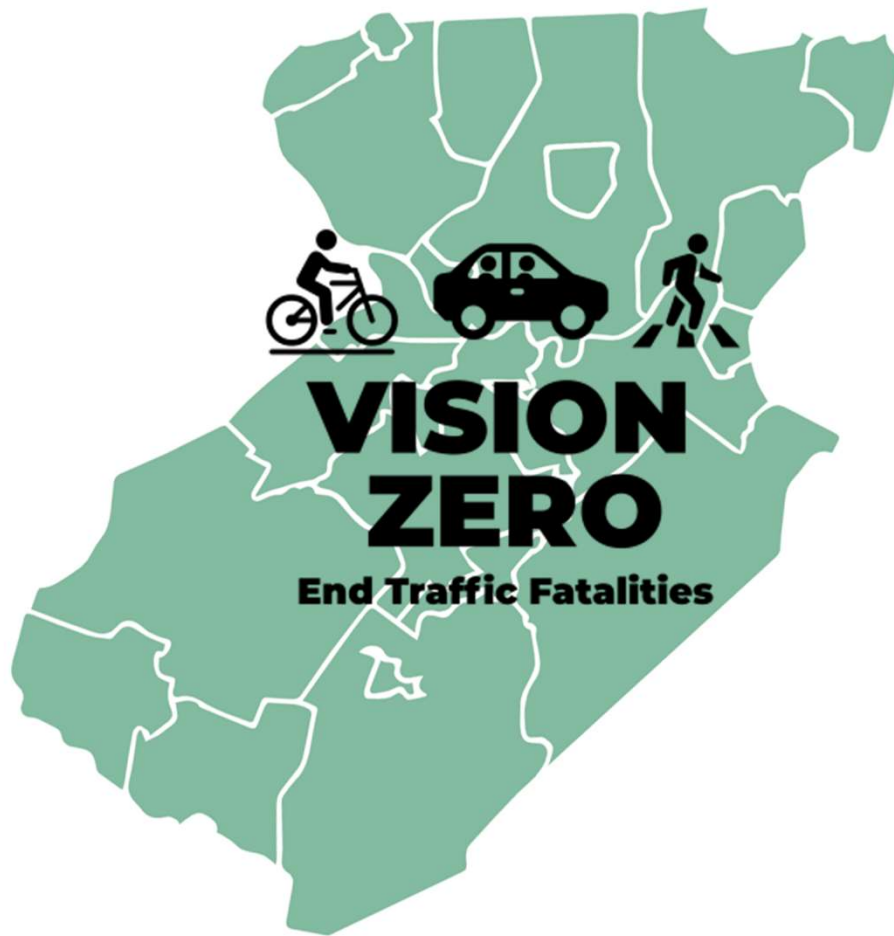
HIGH VISIBILITY
CROSSWALKS

DAYLIGHTING

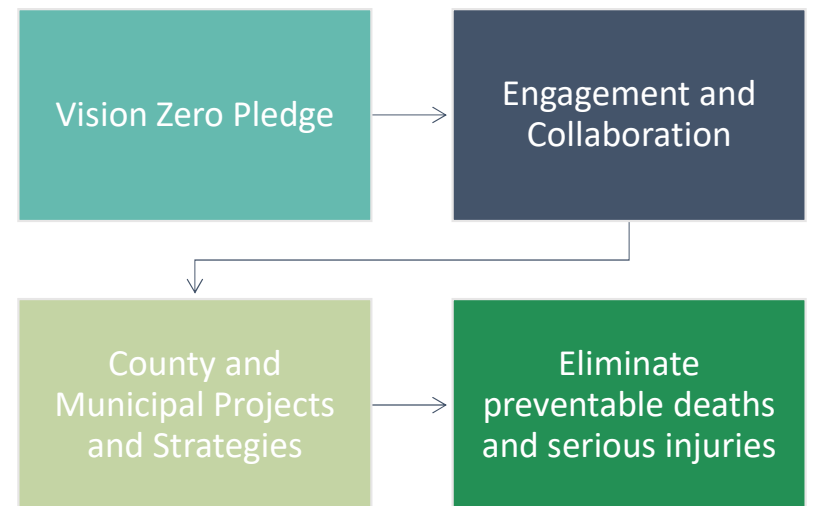
ADA



HOW IS VISION ZERO IMPLEMENTED?

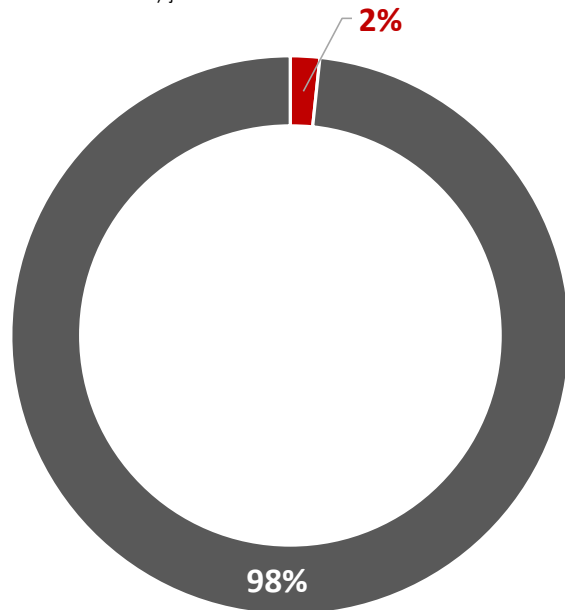


VISION ZERO ACTION PLAN



2010-2019 Crashes in Middlesex County

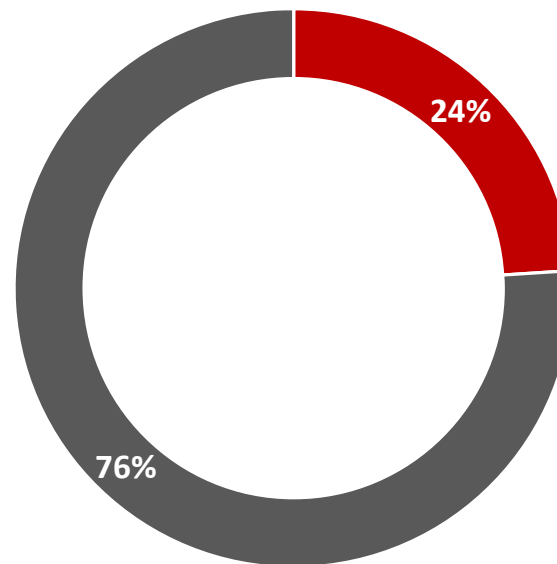
*Includes all roadway jurisdictions from 2010-2019



291,440 Traffic Crashes

Bicycle and Pedestrian Crashes
5,014 Bicycle and Ped. Crashes

Vehicle Crashes
286,427 Vehicle Crashes



1,434 Fatal and Serious Injury Crashes (FSIs)

Bicycle and Pedestrian Crashes
347 Bicycle and Ped. FSI Crashes

Vehicle Crashes
1,087 Vehicle FSI

On Average, the County Saw:

2 Crashes/Hour

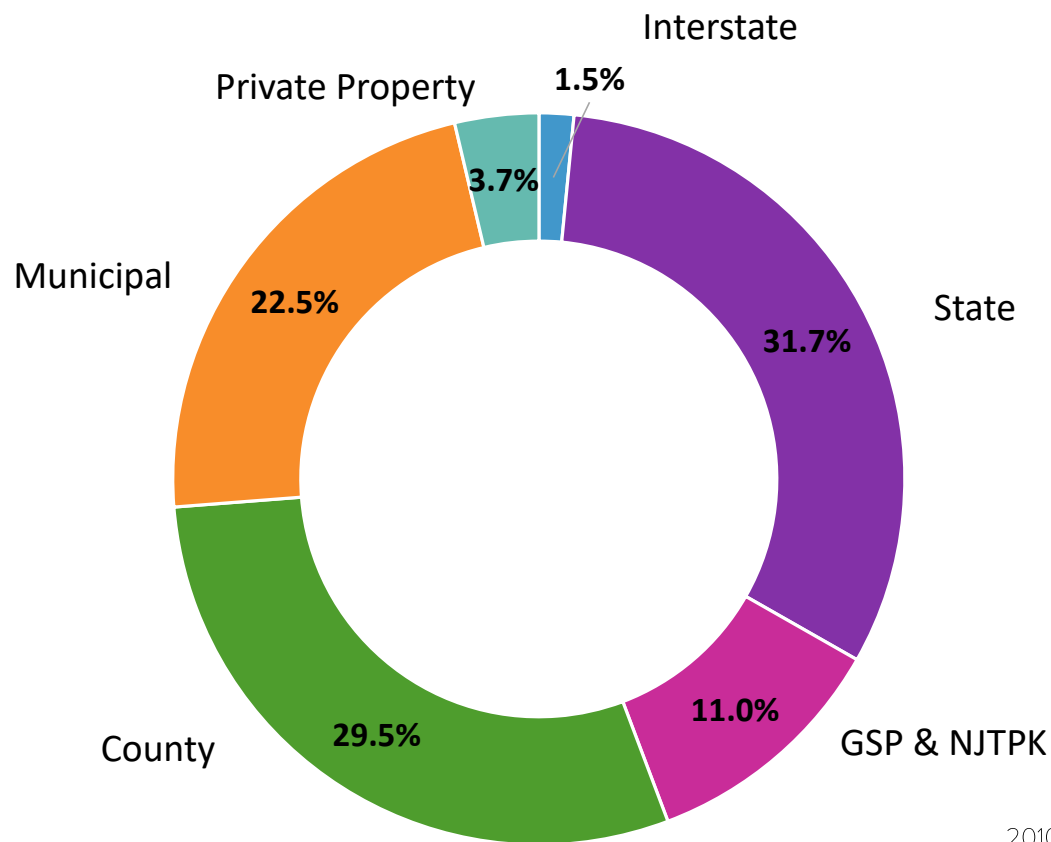
4 Fatalities/Month

8 Incapacitations/Month

23 Injuries/Month



FATAL & SERIOUS INJURY CRASHES BY ROADWAY JURISDICTION



2010-2019 Crashes in Middlesex County
* Includes all roadway jurisdictions from 2010-2019



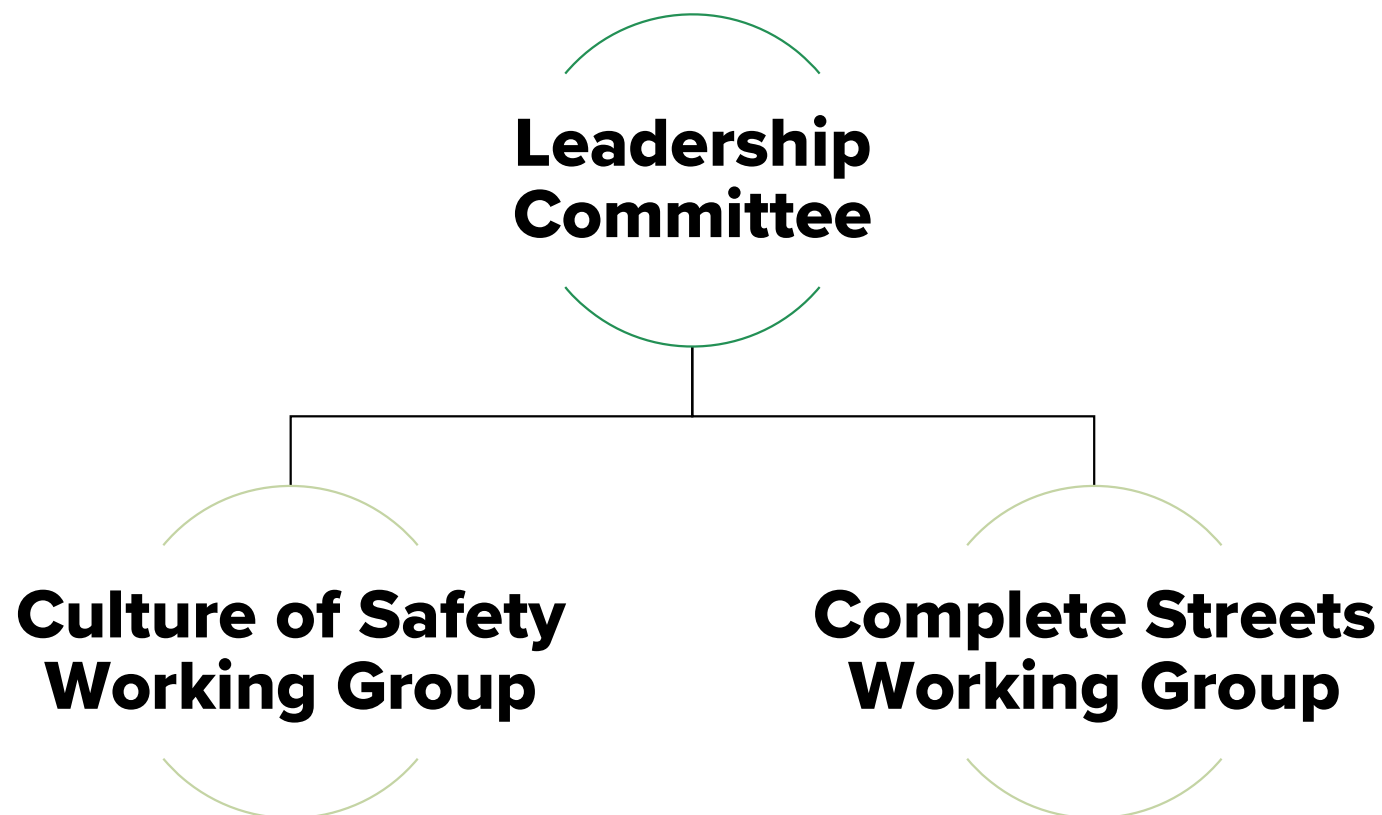


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VISION ZERO PARTNERSHIP



PARTNERSHIP OVERVIEW



VISION ZERO.

PARTNERSHIP



Leadership Committee

Drive the planning process



Ownership



Facilitate **Champions**



Implement change across jurisdictions





2022 USDOT NATIONAL ROADWAY SAFETY STRATEGY

SS4A



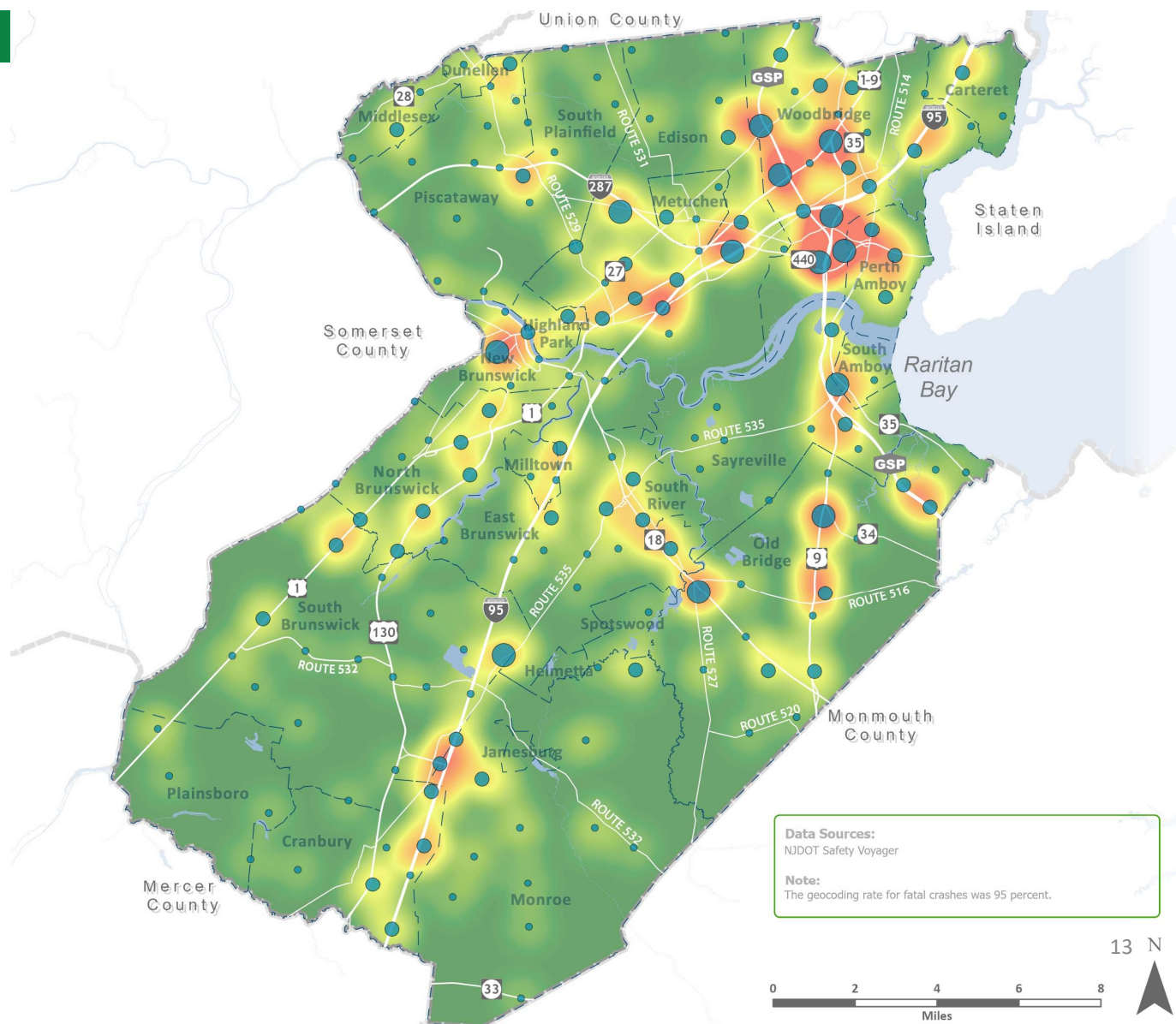
FATAL CRASHES HOTSPOT MAP

2010-2019

Number of Fatal Crashes

- 1 - 2
- 3 - 5
- 6 - 9

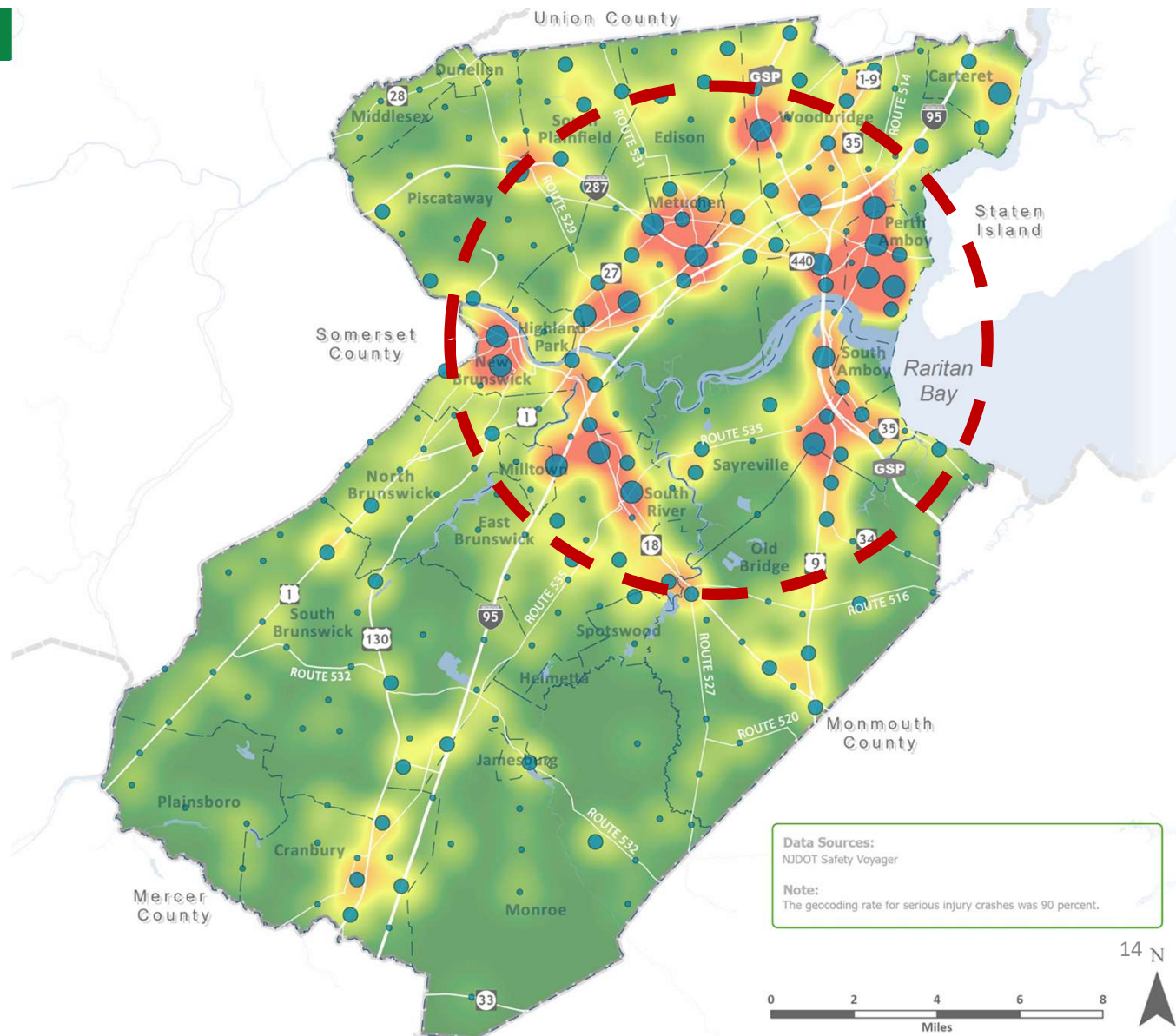
Fatal Crashes per Square Mile



SERIOUS INJURY CRASHES HOTSPOT MAP

Number of Serious Injury Crashes

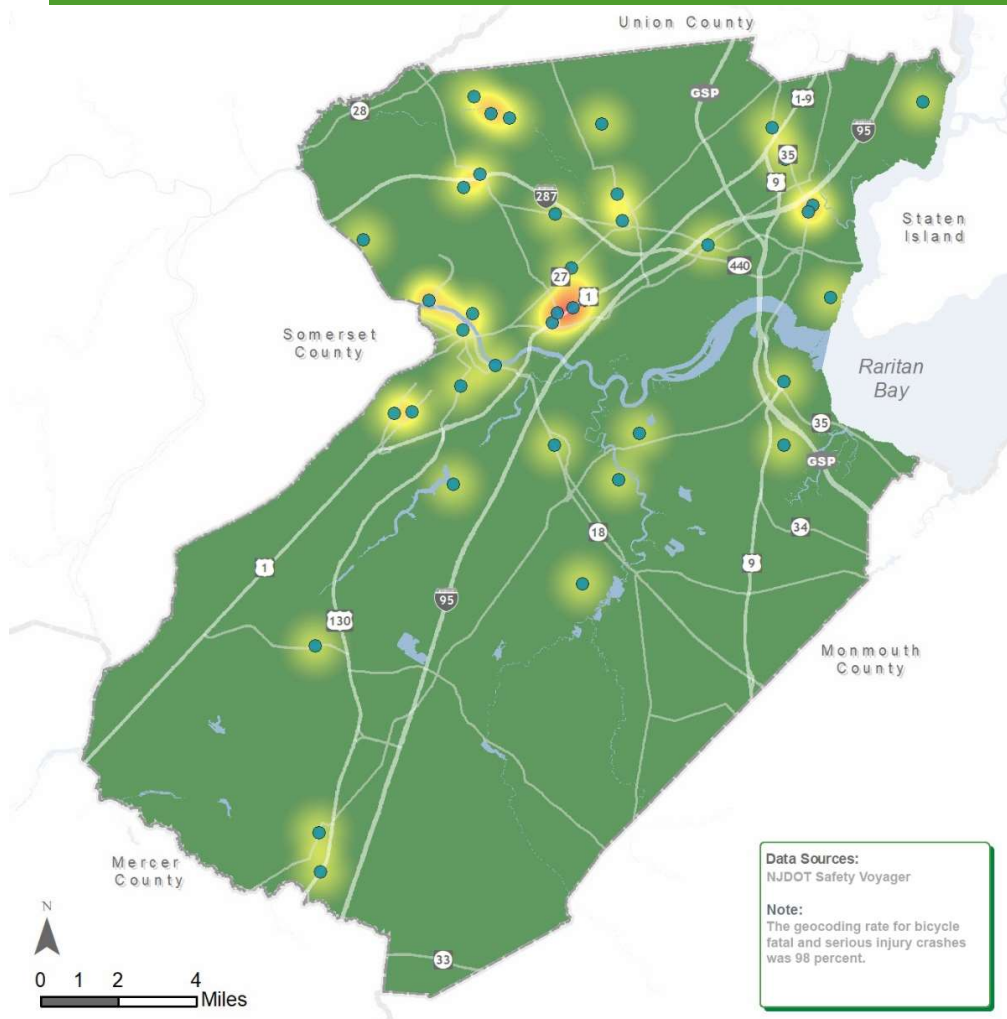
- ### Serious Injury Crashes per Square Mile



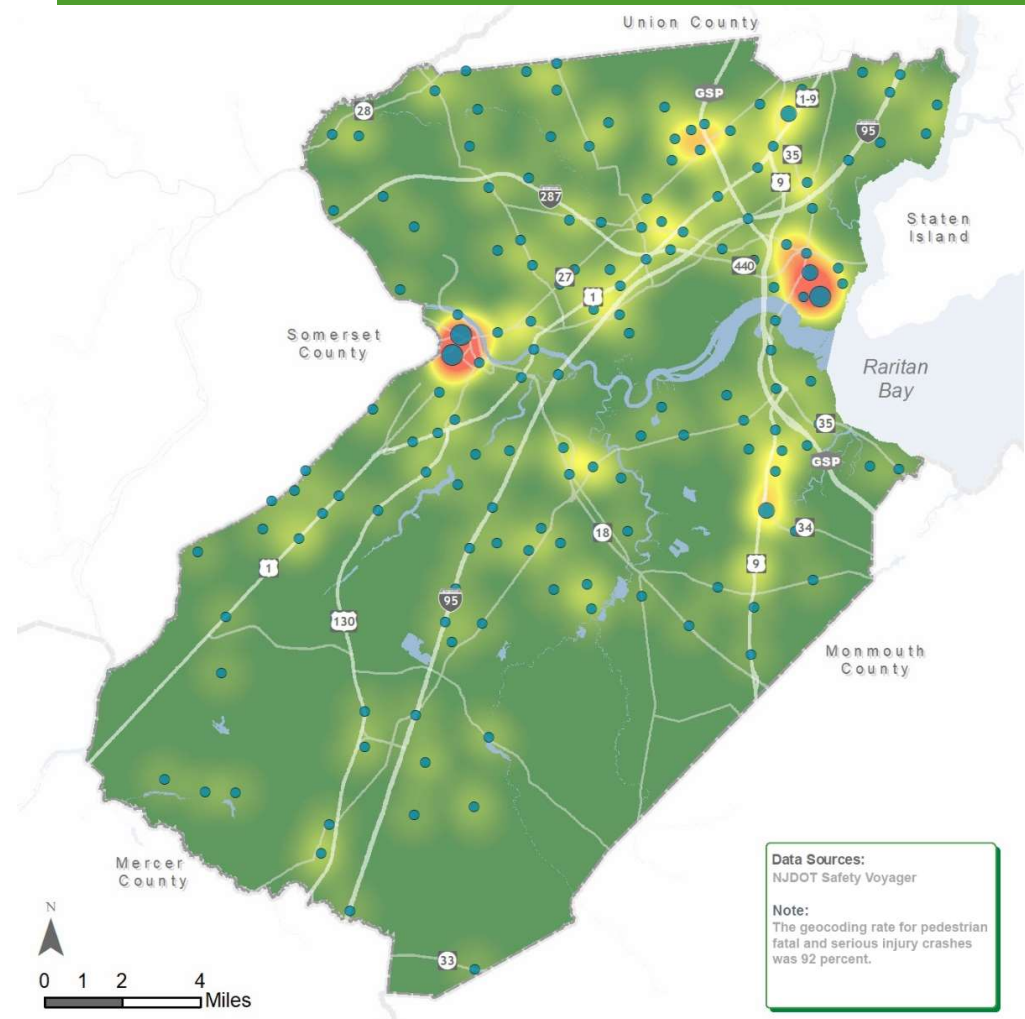
Note:
The geocoding rate for serious injury crashes was 90 percent.

3. TARGETING THE PROBLEM | PRESENT DATA AND ANALYSIS – CRASH DATA

Bicycle Fatal & Serious Injury Crash Hotspots 2010-2019



Pedestrian Fatal & Serious Injury Crash Hotspots 2010-2019



TARGETING THE PROBLEM

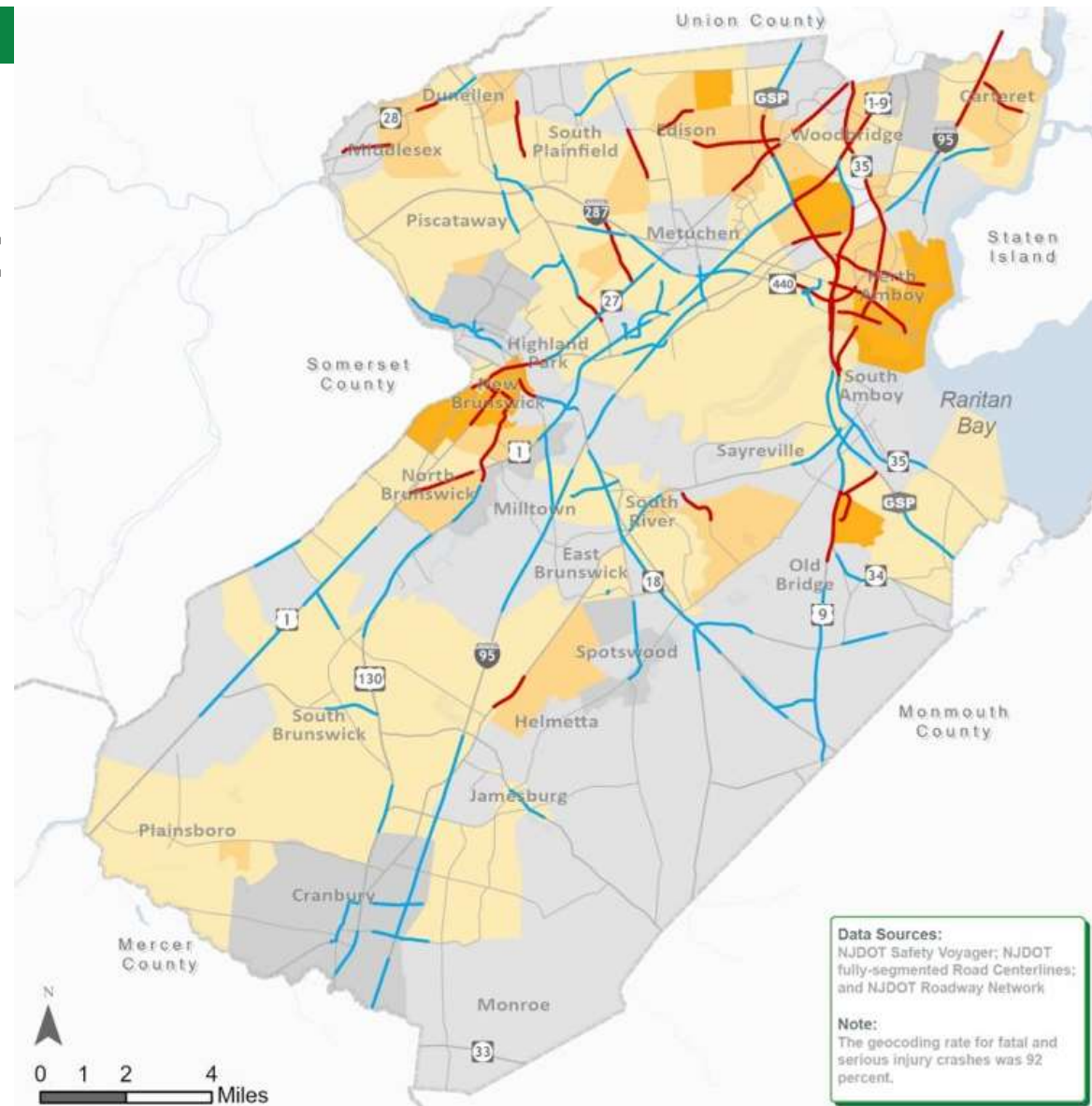
HIN BY INDICATORS OF POTENTIAL DISADVANTAGE

Weighted High Injury Network, 2010-2019

- In the Top 2 IPD Intervals
- Not In the Top 2 IPD Intervals

Indicators of Potential Disadvantage (IPD) by Census Tract

- Well Below Average (< -1.5 Std. Dev.)
- Below Average (-1.5 - -0.5 Std. Dev.)
- Average (-0.5 - 0.5 Std. Dev.)
- Above Average (0.5 - 1.5 Std. Dev.)
- Well Above Average (> 1.5 Std. Dev.)



HIGH INJURY NETWORK (HIN)



Identifies roadway locations that account for a disproportionate share of **fatal and serious injury crashes (FSIs)**.



Data driven



Helps prioritize investments



Equity





ZERO

Fatalities & Serious Injuries by 2040



WHAT WILL SUCCESS LOOK LIKE

-GOALS-

1. SAFER STREETS

- Design streets and transportation networks to be safe and comfortable for all users.

2: SAFER SPEEDS

- Set roadway speed limits based on surrounding land use and activities focusing on vulnerable users.

3: SAFER ROAD USERS

- Foster a culture of safety, responsibility, and awareness within Middlesex County.

4: SAFER VEHICLES

- Utilize the latest vehicle systems and safety features for the County fleet. Support the development of new safety features.



WHAT WILL SUCCESS LOOK LIKE

-GOALS-

5: POST CRASH RESPONSE AND CARE

- Improve crash response time and data collection.

6: FOCUS ON EQUITY

- Ensure equitable distribution of all traffic safety investments and benefits using a data-based approach

7: DEVELOP STRONG PARTNERSHIPS

- Implement the Vision Zero Action in collaboration with municipalities, non-profits, and state and regional agencies.

8: COMMUNITY ENGAGEMENT

- Work with Middlesex County community members to obtain feedback.



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NEXT STEPS...





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Complete Streets Working Group





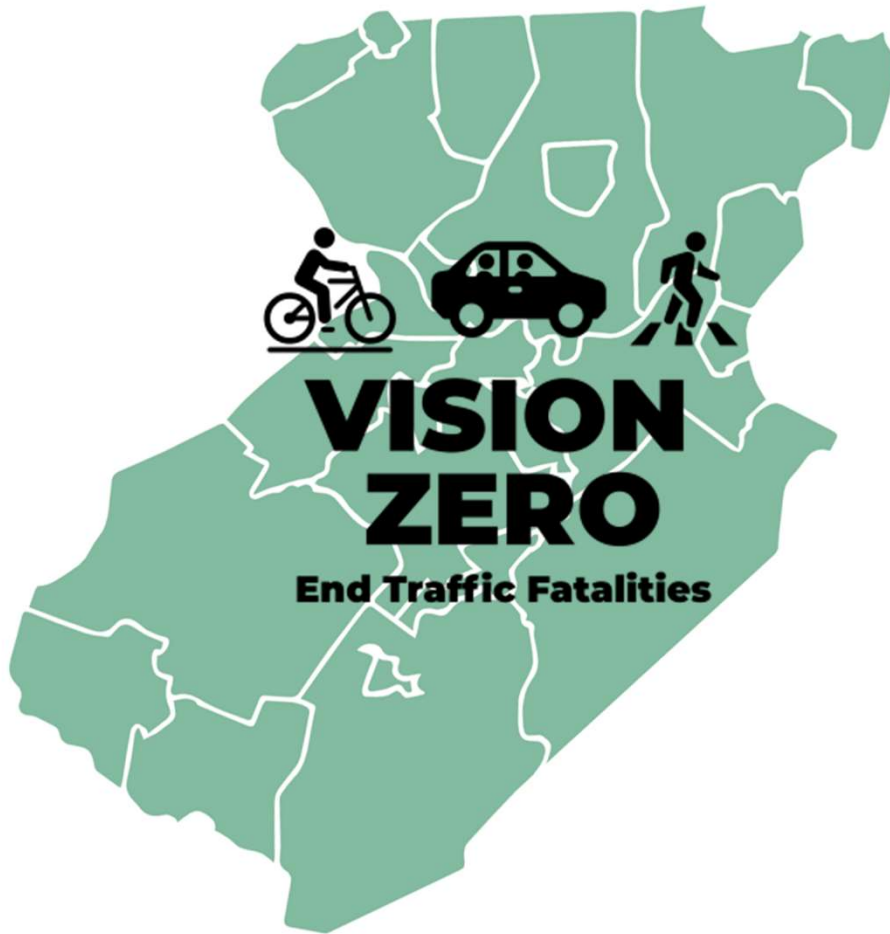
VISION ZERO.

Overview

1. Introduction Existing Efforts
2. Identified Safety Problems
3. Strategies and Projects
4. Performance Measures and Measuring Success
5. Next Steps
6. Adjournment



1. INTRODUCTION



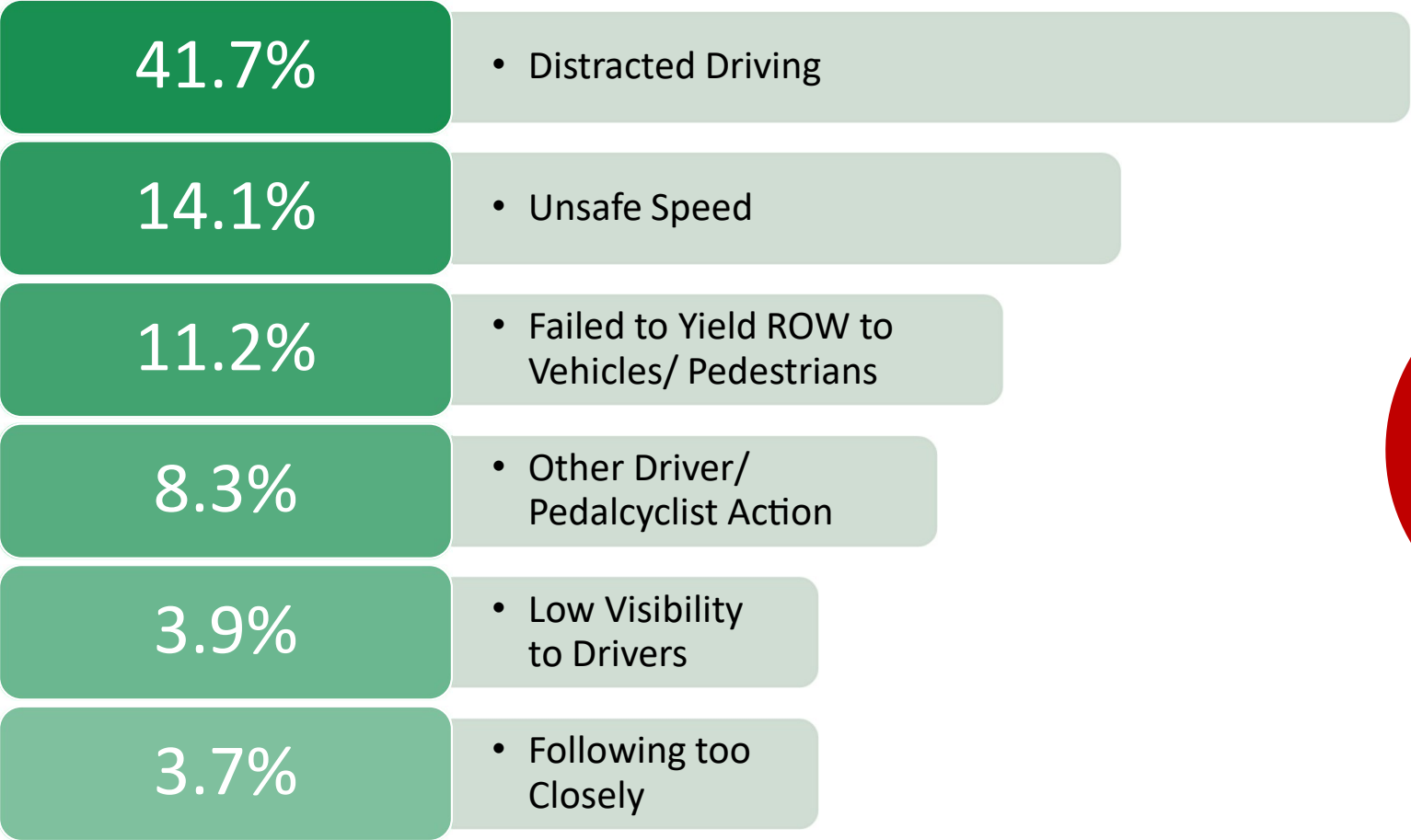
Purpose of this Meeting

- Engage critical stakeholders in the development of the Complete Streets aspects of the Vision Zero Action Plan



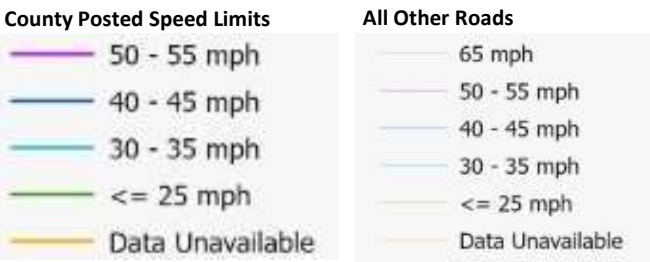
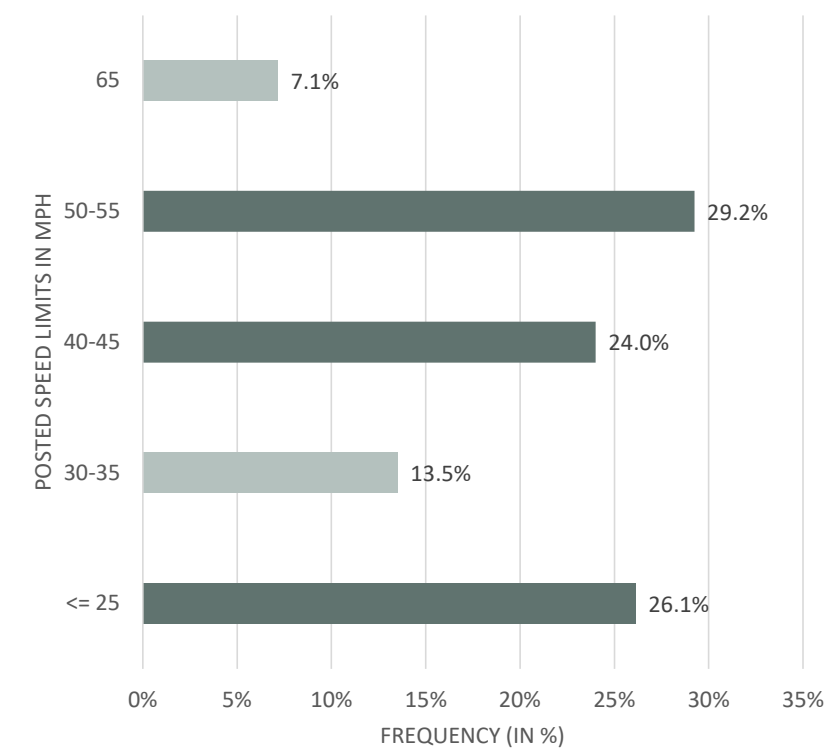
3. IDENTIFIED SAFETY PROBLEMS

TOP 6 FACTORS CONTRIBUTING TO HIGH-SEVERITY CRASHES, ALL MODES



3. IDENTIFIED SAFETY PROBLEMS

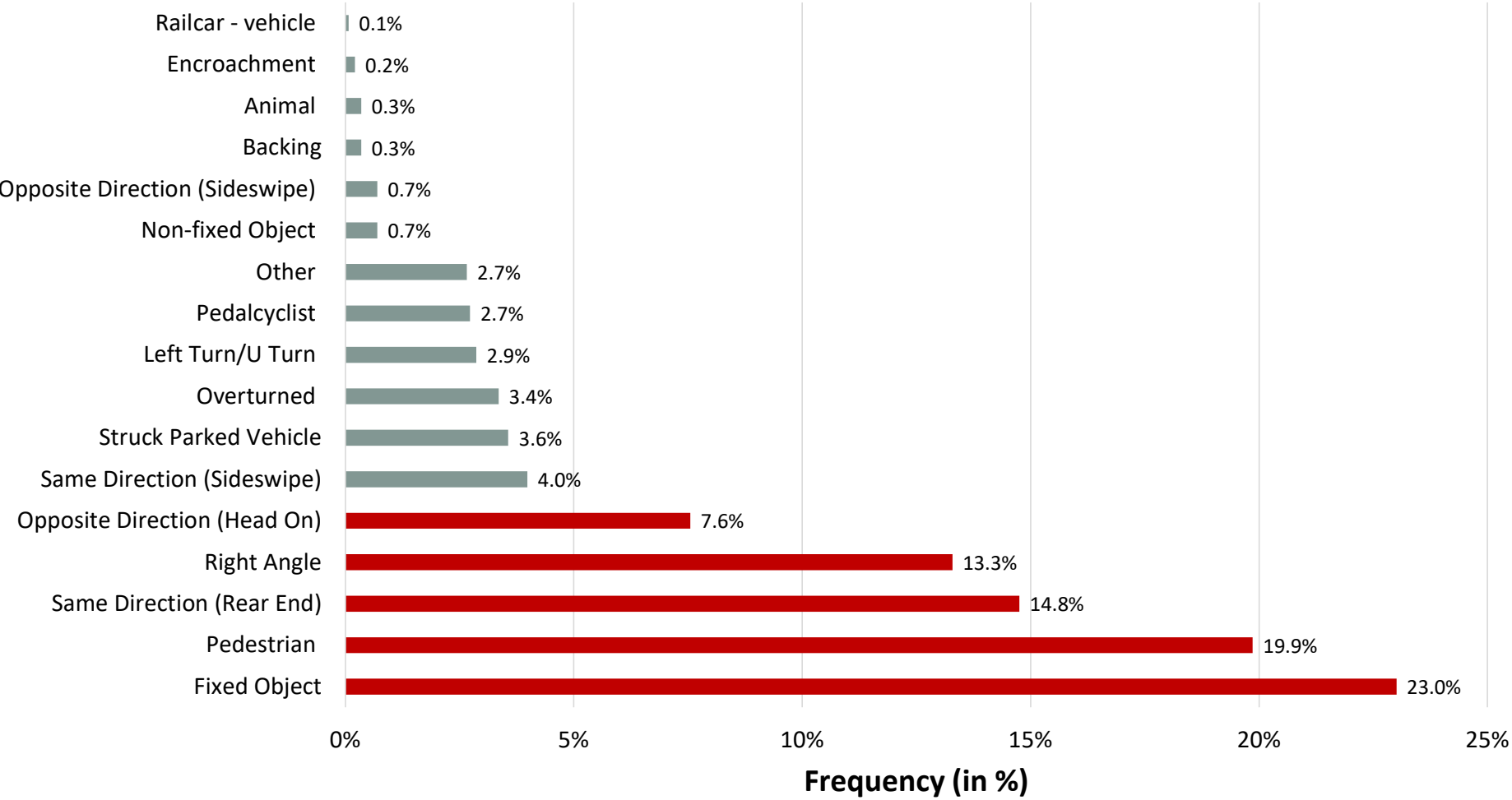
POSTED SPEED LIMITS MAP



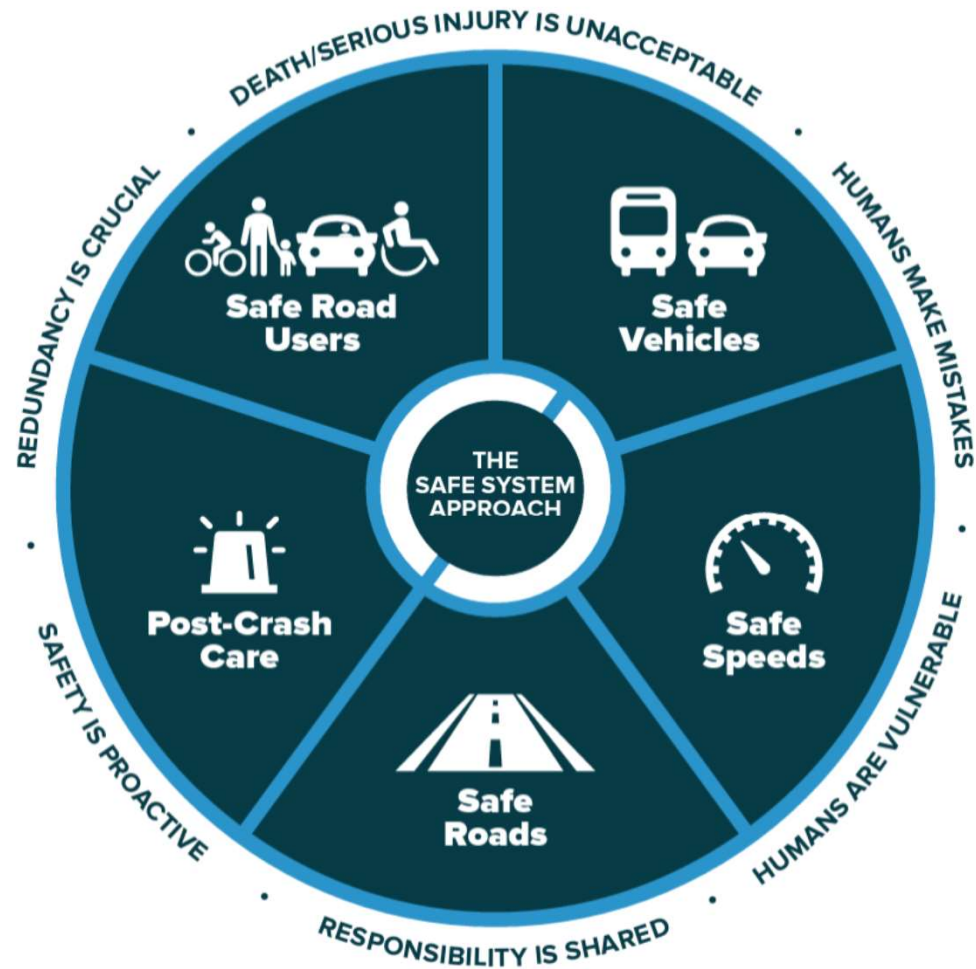
3. IDENTIFIED SAFETY PROBLEMS

CRASH TYPES

2010-2019



THE SAFE SYSTEM APPROACH



COMPLETE STREETS WORKING GROUP HANDOUT

1. INTRODUCTION

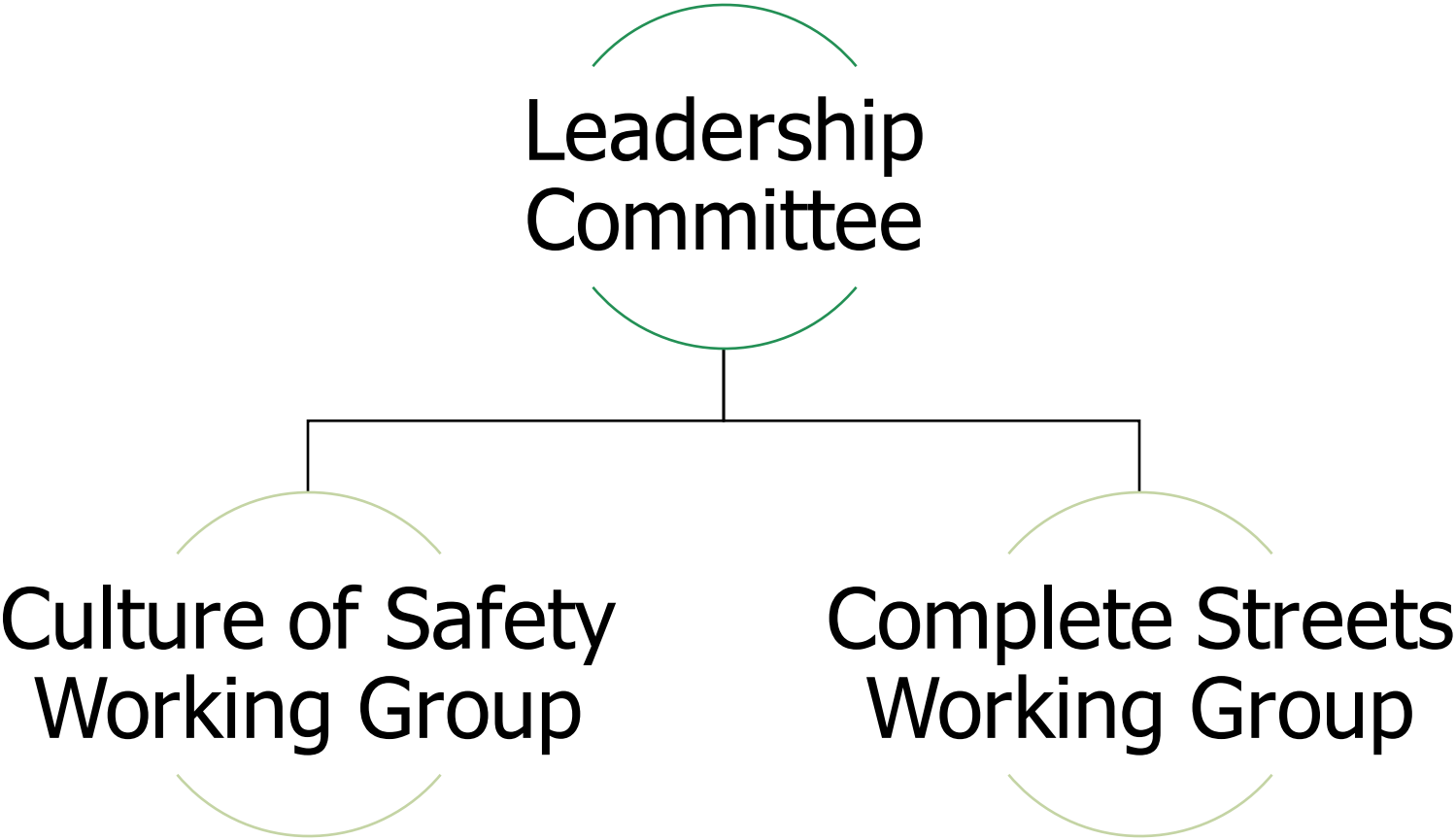


VISION ZERO.

COUNTY AND
MUNICIPAL LEADERS

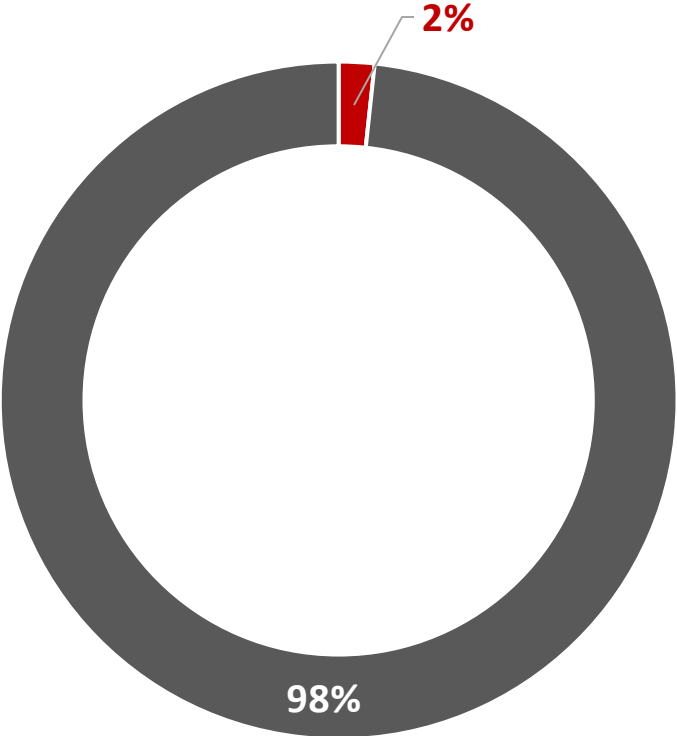
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VISION ZERO PARTNERSHIP



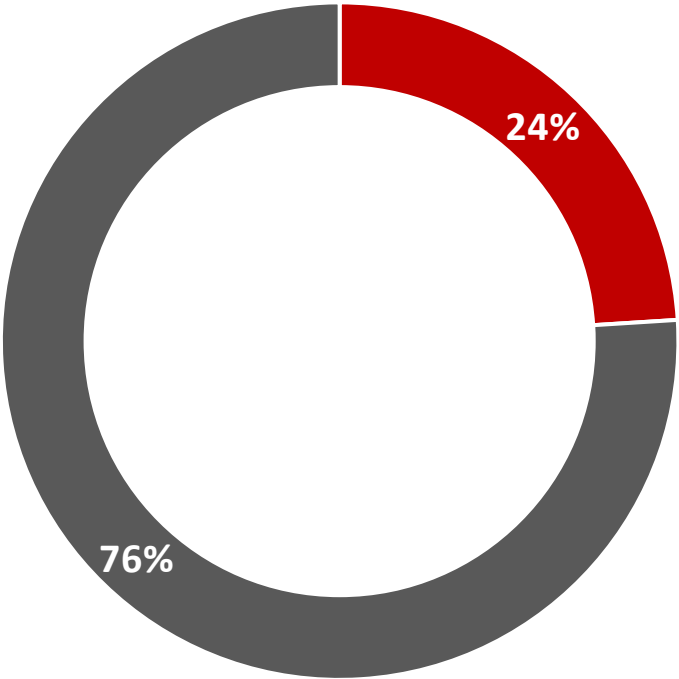
2010-2019 Crashes in Middlesex County

*Includes all roadway jurisdictions from 2010-2019



291,440 Traffic Crashes

-  **Bicycle and Pedestrian Crashes**
5,014 Bicycle and Ped. Crashes
-  **Vehicle Crashes**
286,477 Vehicle Crashes



1,340 Fatal and Serious Injury Crashes (FSIs)

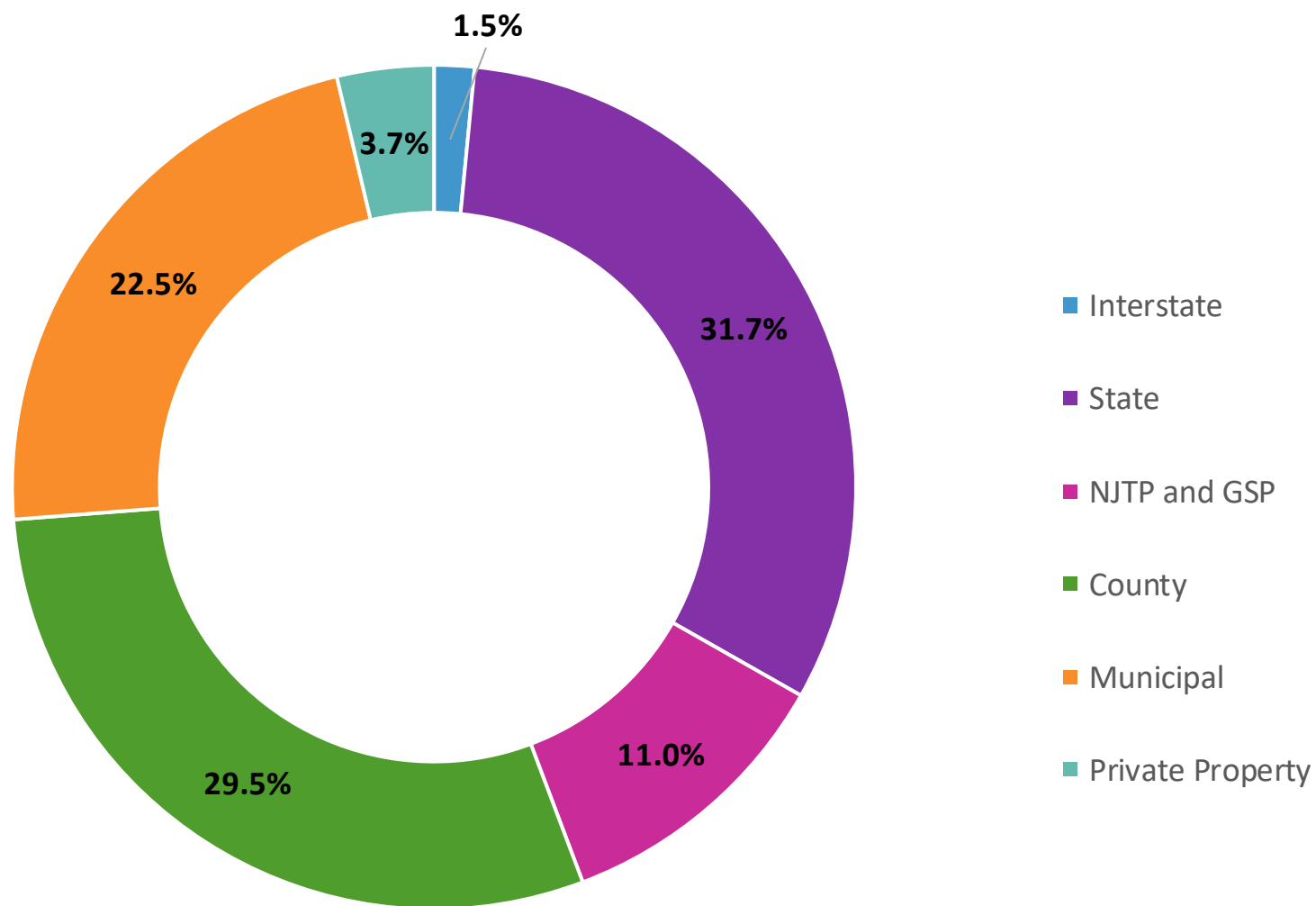
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-  **Vehicle Crashes**
1,087 Vehicle FSI

On Average, the County Saw:

- 2** Crashes/Hour
- 4** Fatalities/Month
- 8** Incapacitations/Month
- 23** Injuries/Month



Fatal & Serious Injury Crashes by Roadway Jurisdiction



2010-2019 Crashes in Middlesex County
* Includes all roadway jurisdictions from 2010-2019



WHAT’S ALREADY BEING DONE?

VISION ZERO.

Please rank the following based on importance:

SAFE SYSTEM APPROACH	1	2	3	4	5
SAFE ROADS Designing to accommodate human mistakes and injury tolerances, e.g., physically separating people traveling at different speeds, dedicated times for different users, safety alerts.					
SAFE SPEEDS Reducing speeds reduces impact forces, provides drivers with stopping time, and improves visibility, reducing the severity of injuries and death.					
SAFE ROAD USERS Facilitating the safe behavior of everyone who walks, bikes, drives, rides transit, or uses other modes through policy and environmental changes that support education and encouragement programs.					
SAFE VEHICLES Designed and regulated to minimize the occurrence and severity of collisions.					
SAFE POST CRASH RESPONSE & CARE Ensuring crash victims receive emergency care quickly to minimize impacts, facilitating processes to locate, stabilize and transport them, including forensic analysis at the crash site, traffic incident management, and other activities.					

SAFE ROADS

Please rank the following projects/strategies:

1. Intersections Enhancements and Redesign (e.g. Improve Lighting Levels, Implement LPIs, Modify Signal Timing)
2. Bicycle and Pedestrian Network Projects
3. Complete Streets Networks
4. County Roundabout Pilot Program
5. Safety Countermeasures Program
6. County Complete Streets Design Guide
7. Design Standards and Guides
8. Coordinate with the NJ SHSP
9. Follow State Guidance Documents
10. Curbside Management Program
11. Multimodal Planning & Transit
12. Funding for Low-Cost Improvements
13. Regular Program Updates
14. Ongoing data collection and analyses
15. Pilot / Demonstration Projects

SAFE SPEEDS

Please rank the following projects/strategies:

1. Speed Management Policy
2. Roadway Design Standards For Speed Management
3. Traffic calming policies

DESTINATION
2040

VISION ZERO.

WHAT DEFINES SUCCESS?

DESTINATION
2040

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WHAT DEFINES SUCCESS?

WHAT DID WE MISS?

SAFE ROADS

SAFE SPEEDS



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Culture of Safety Working Group

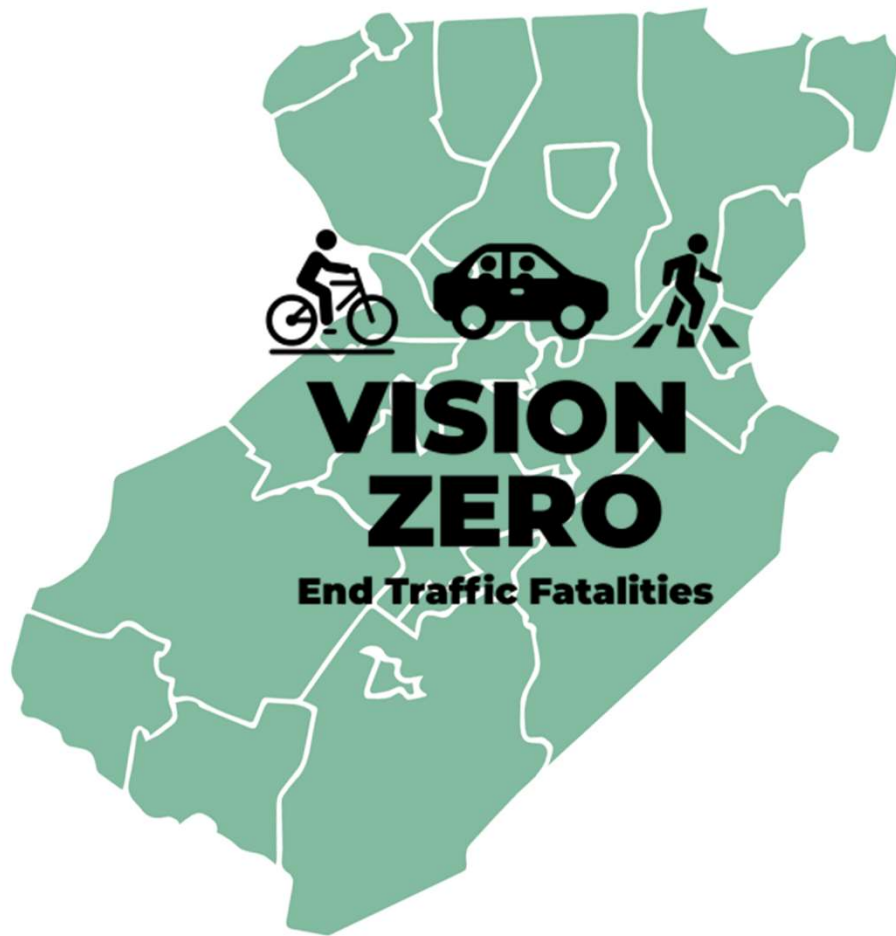


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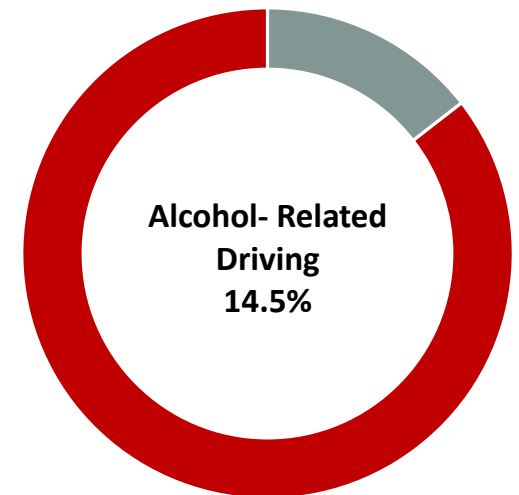
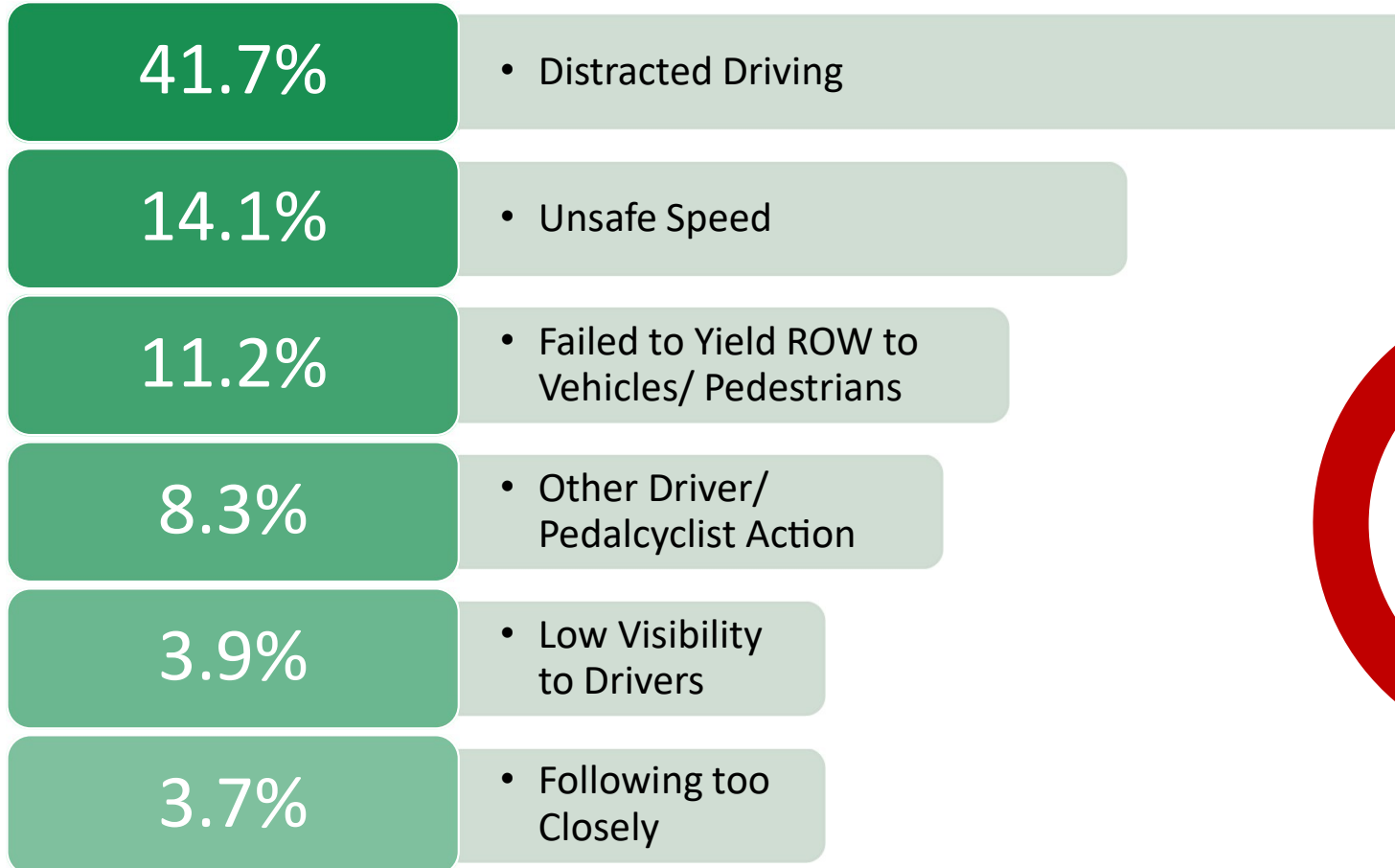
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- Engage critical stakeholders in the development of the Culture of Safety aspects of the Vision Zero Action Plan



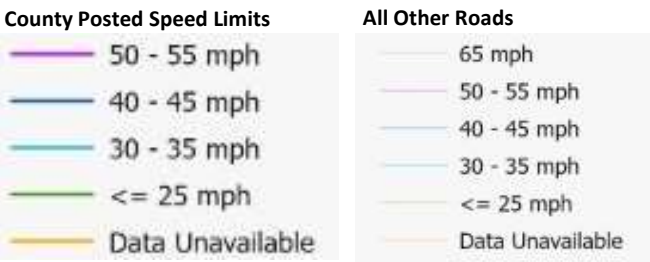
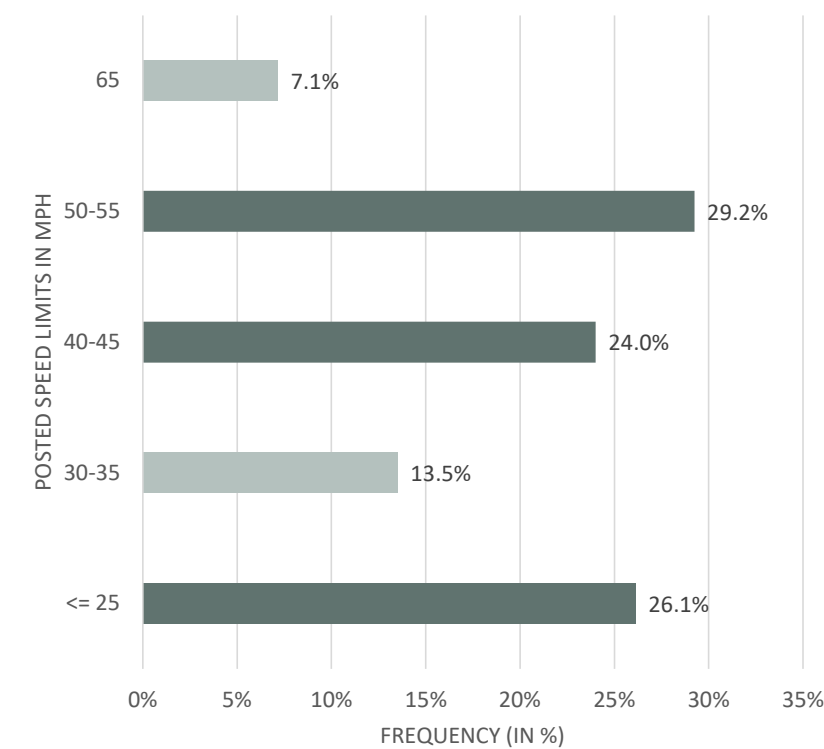
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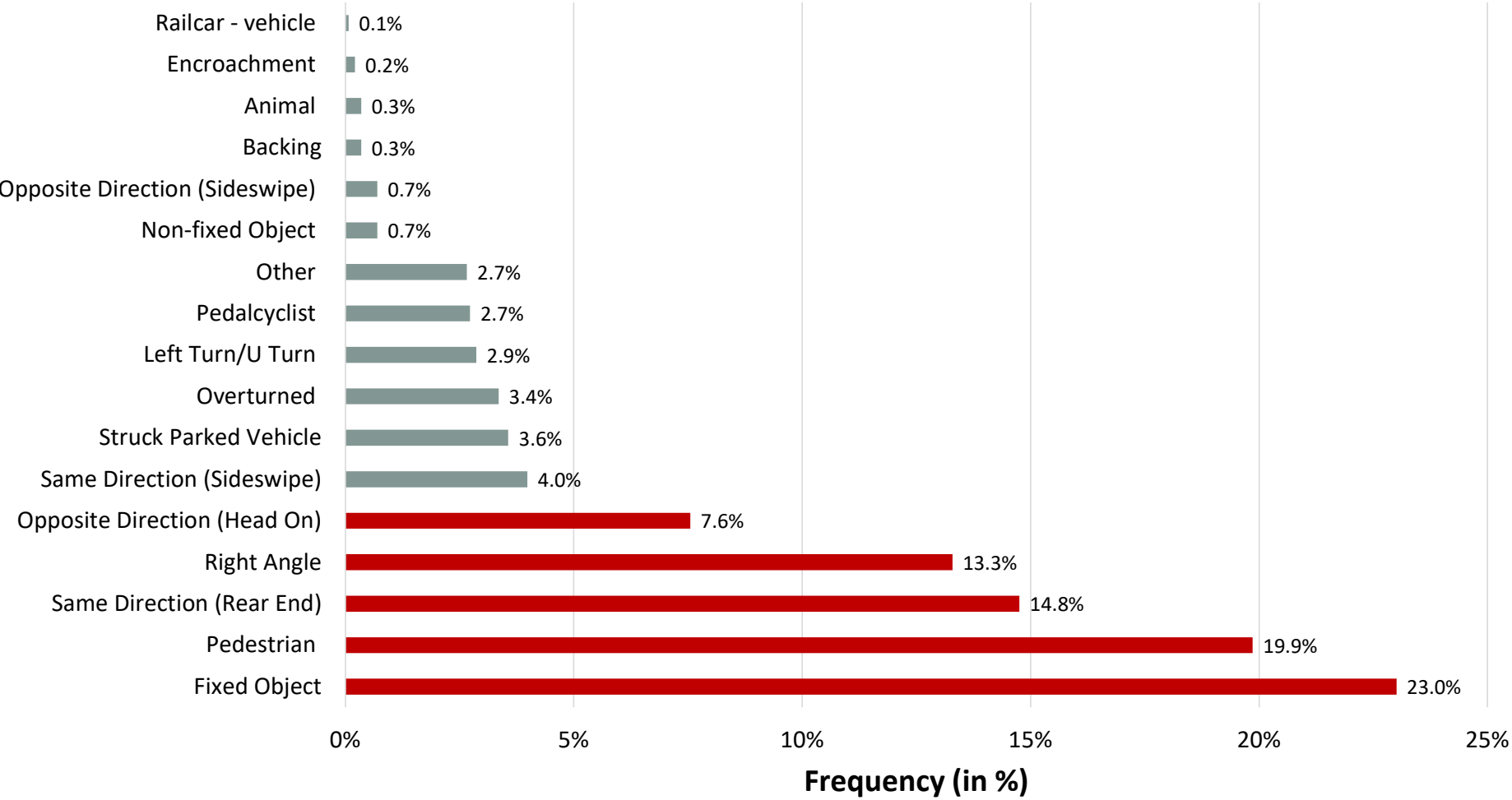
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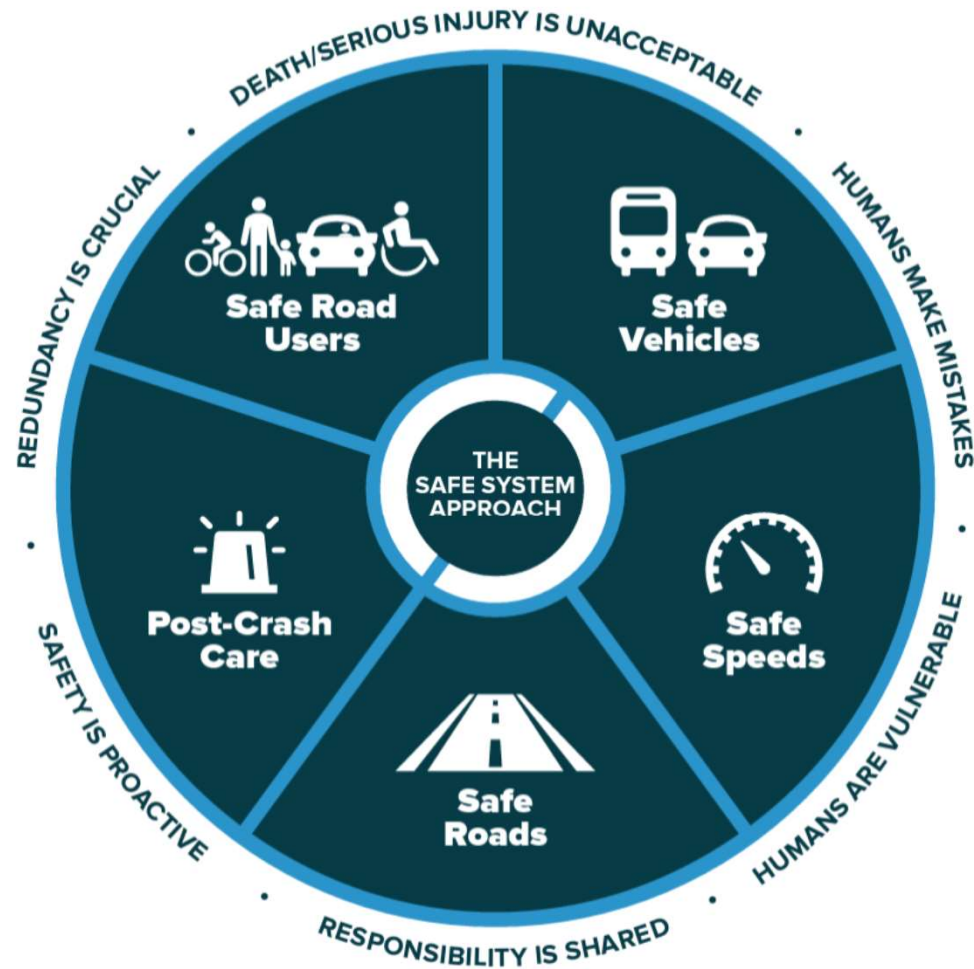
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THE SAFE SYSTEM APPROACH



CULTURE OF SAFETY WORKING GROUP HANDOUT

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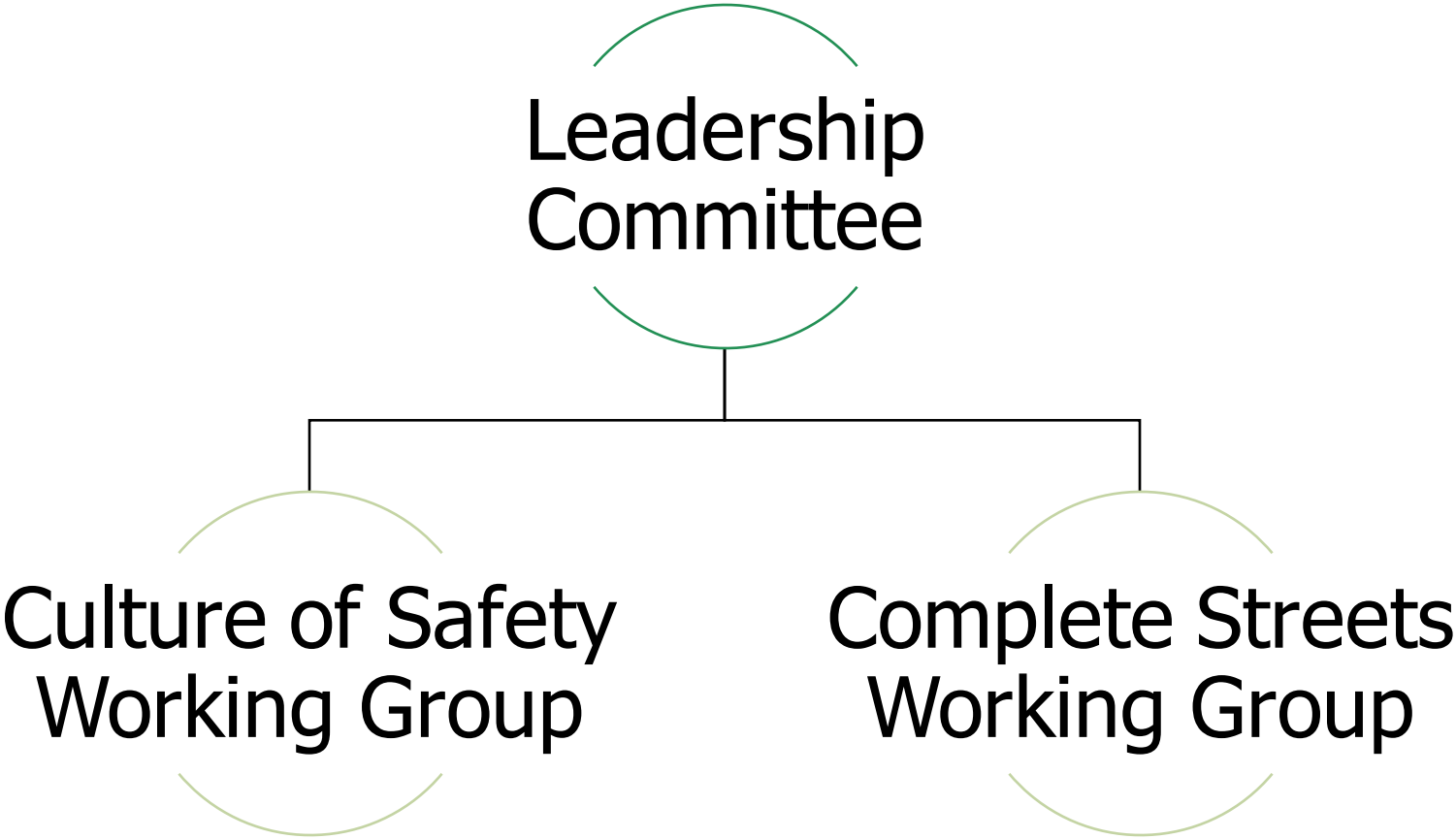


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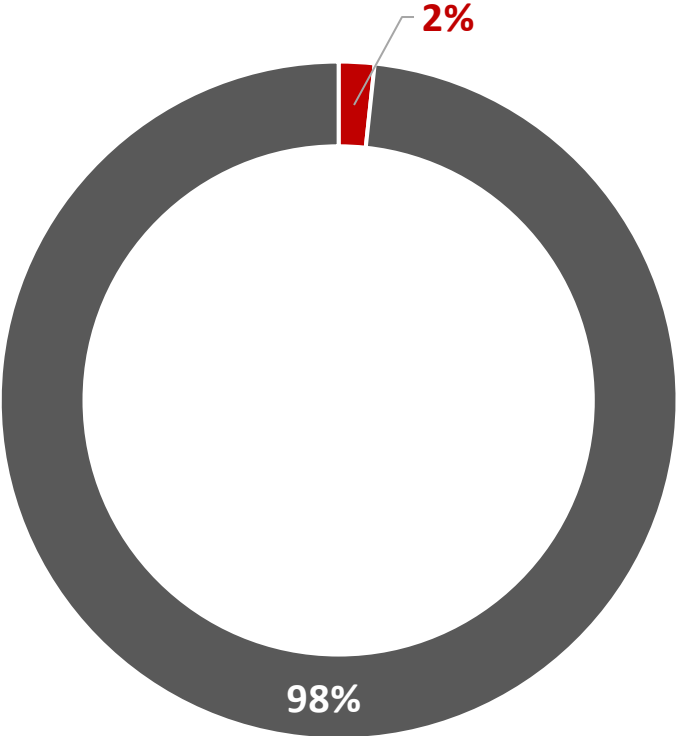
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VISION ZERO PARTNERSHIP



2010-2019 Crashes in Middlesex County

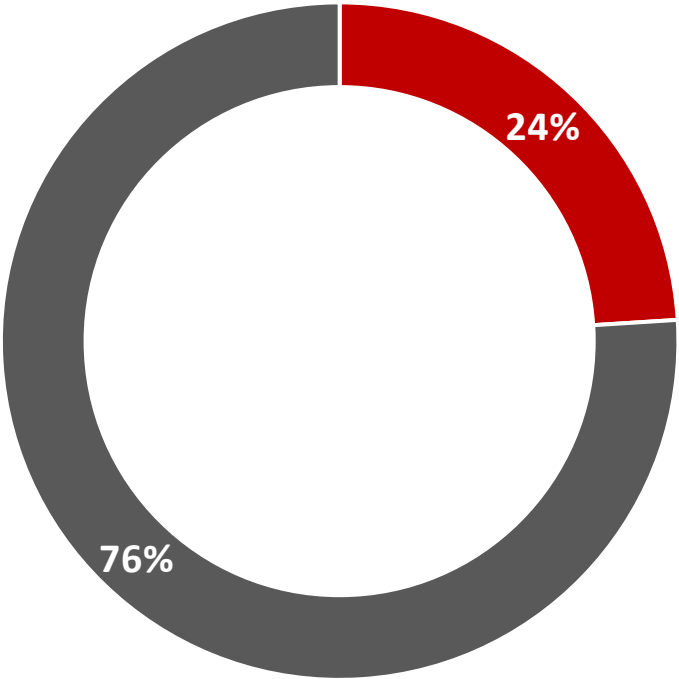
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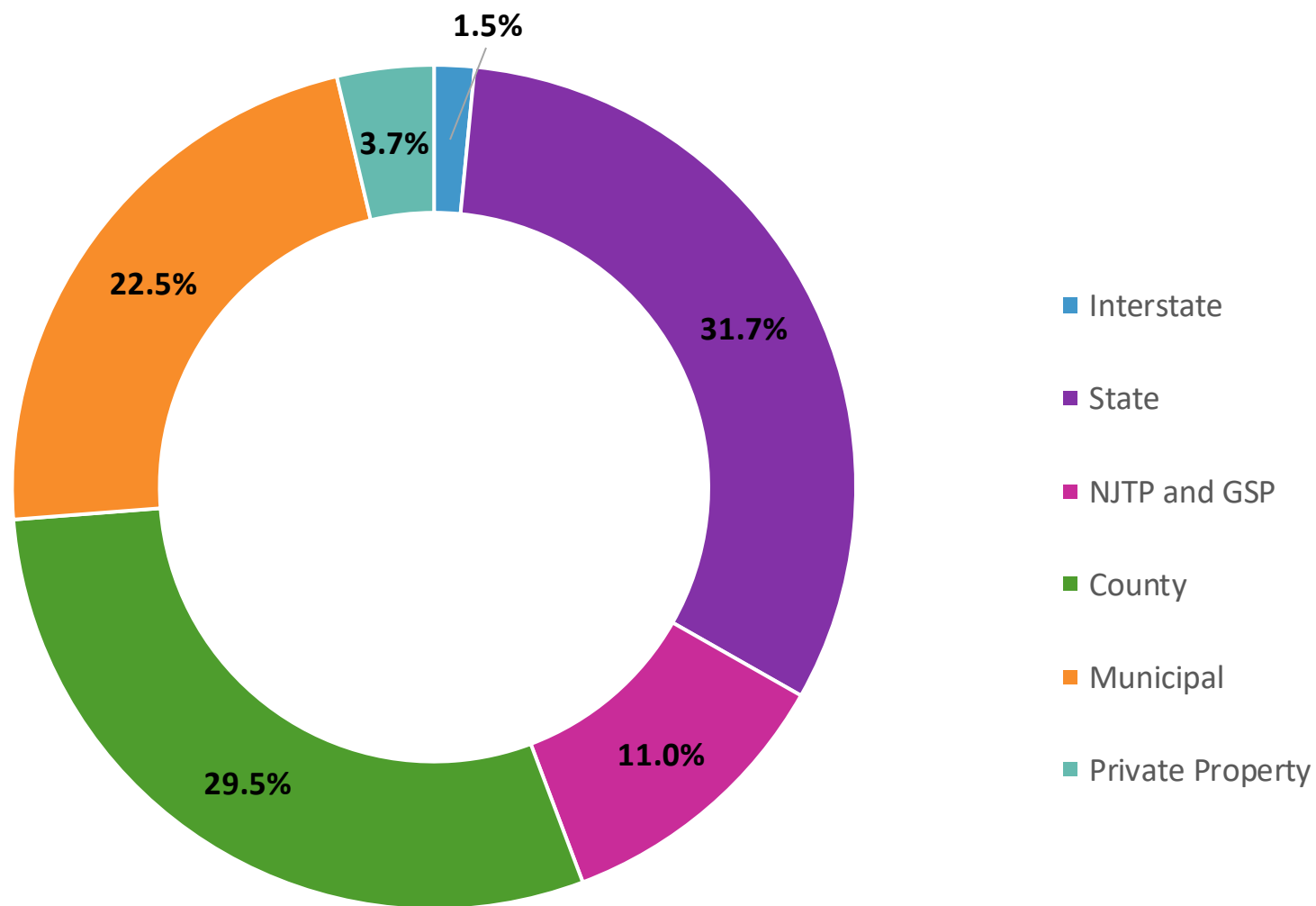
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SAFE SPEEDS

Please rank the following projects/strategies:

1. Vision Zero Education for the Community
2. Outreach and Engagement Strategies and platforms for Vision Zero
3. Driver Education & Vision Zero (e.g. Distracted Driving, Unsafe Speed Training, etc.)
4. Safe Routes to School & Vision Zero
5. Community Ambassadors database
6. Collaboration with Community Groups and Ambassadors
7. End Impaired Driving Deaths
8. Community-based enforcement strategies
9. Vision Zero Training for Law Enforcement
10. Vision Zero County Staff Training
11. Support structured fines for traffic violations so that low-income people do not bear a disproportionate financial burden.
12. EJ population engagement strategies
13. Pilot demonstration projects
14. Vision Zero task force

SAFE VEHICLES

Please rank the following projects/strategies:

1. Safer County Vehicle Fleet
2. AV Technology Task Force
3. Right-Size County Vehicle Fleet
4. DataCity Smart Mobility Testing Corridor
5. Safe post-crash response

SAFE POST-CRASH RESPONSE AND CARE

Please rank the following projects/strategies:

1. Prompt Medical Service
2. Establish a rapid response team
3. Data sharing and coordination

What did we miss?

SAFE SPEEDS

SAFE VEHICLES

SAFE POST-CRASH RESPONSE AND CARE

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