

STAKEHOLDER INFORMATION SESSION & WORKSHOP

Northwest Illinois SS4A Safety Action Plan



SAFE
STREETS FOR ALL

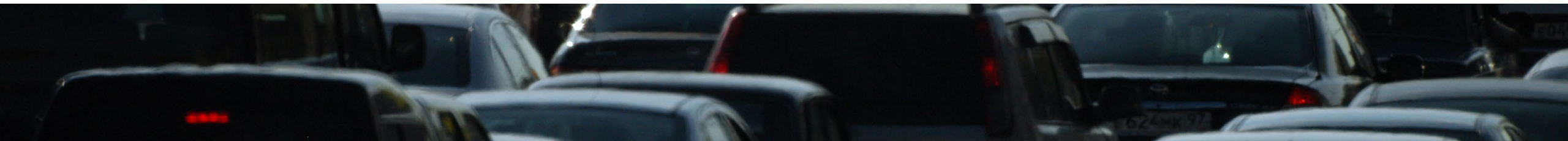
BLACKHAWK HILLS REGIONAL COUNCIL | CARROLL COUNTY | JO DAVIESS COUNTY
LEE COUNTY | OGLE COUNTY | STEPHENSON COUNTY | WHITESIDE COUNTY





TODAY'S AGENDA

- Safety Action Plan Overview & Background
- Purpose of the Safety Action Plan – Why is it valuable?
- Data Collection & Analysis
- Identifying Safety Issues and/or Areas of Concern
- Equity Considerations
- Goal Setting
- Timeline & What to Expect
- How to Reach Us



CONSULTING TEAM



Geri E. Boyer
PE

Principal In Charge



Jamy Lyne

Project Manager



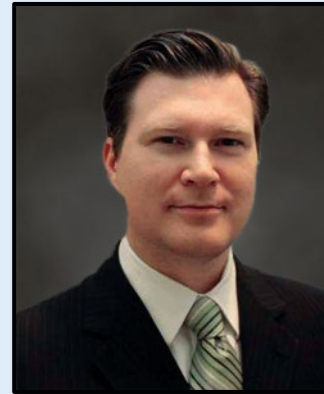
Bryan Donze
PE, RSP

Senior Engineer



Veronica Richfield
PE, PTOE, RSP2I

Deputy Project Manager



Sean Daly,
AICP, PTP

Deputy Project Manager



Adam Danczyk
PE, PTOE

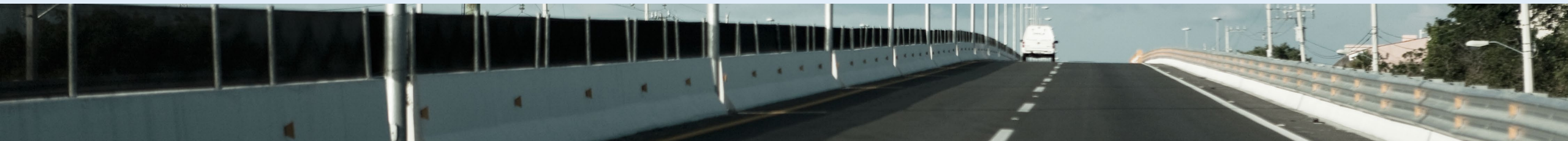
Senior Engineer



Sarah Wells

Public Involvement

NORTHWEST ILLINOIS SS4A SAFETY ACTION | STAKEHOLDER INFORMATION SESSION & WORKSHOP



AGENCY INTRODUCTIONS

Stephenson County
Dale Rasmussen

Carroll County
Sara Renkes

Jo Daviess County
Stephen Keefer

Lee County
David Anderson

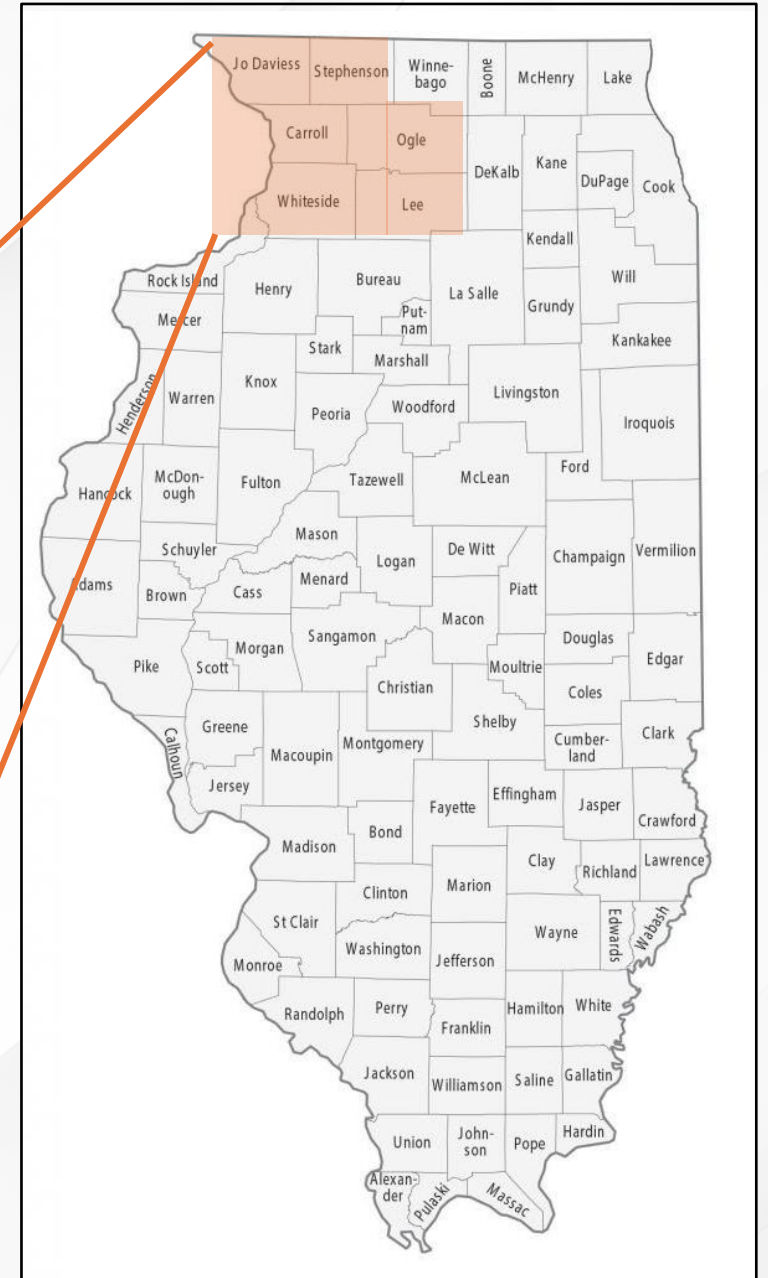
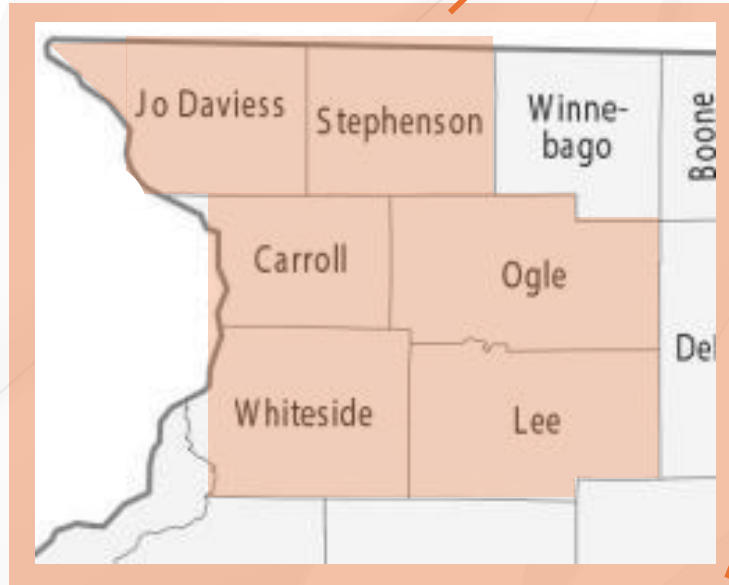
Ogle County
Jeremy Ciesiel

Whiteside County
Russ Renner

City of Freeport
Rob Boyer



BHRC
Daniel Payette
Abigail Ebelherr



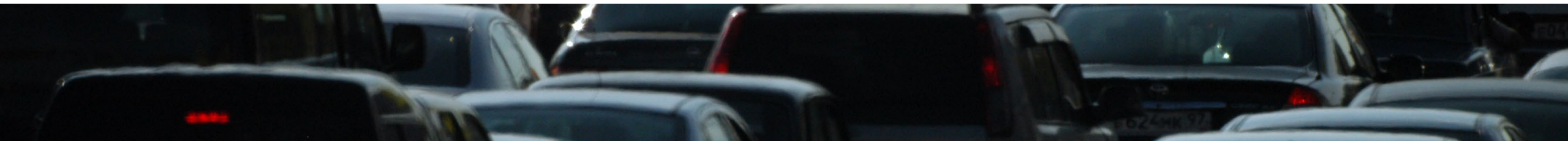


HOW TO REACH US

Project Website &
Comment Submission



Virtual Safety Issue
Interactive Map



A collage of three images: a dirt road in a rural landscape, a close-up of hands on a steering wheel, and a worker in a safety vest talking to a child.

STUDY WEBSITE

Safe Streets are for Everyone

The counties of Carroll, Jo Daviess, Lee, Ogle, Stephenson, and Whiteside, Illinois have partnered with the Blackhawk Hills Regional Council (BHRC) in order to develop a Safe Streets for All Safety Action Plan (SAP) for their region. This plan will serve as a framework to guide future infrastructure design. This page will be updated regularly and will serve as a timely, comprehensive resource for information regarding the development of the SAP. The Project Team will provide valuable information and materials for the public through this website, as well as solicit feedback and comments from residents, business owners, and stakeholders of Northwest Illinois.

The six counties and BHRC have chosen a reputable, well-established engineering firm to manage the development of the SAP. Kaskaskia Engineering Group, LLC (KEG) will be leading all efforts associated with the SAP. KEG specializes in traffic and safety engineering and design and is supported by a multidisciplinary team to provide a comprehensive, well-rounded SAP. They will be the main contact for the project and are able to assist with questions or concerns as the project progresses.

What is an SAP?

[LEARN MORE](#)



Project History

[LEARN MORE](#)

What is Safe Streets for All?

[LEARN MORE](#)



How Do I Get Involved?

[LEARN MORE](#)

RESOURCES & LINKS

BHRC Website

[Click Here](#)

Safe System Approach

[Click Here](#)

SS4A Grant Overview

[Click Here](#)

Stay in touch with us!

Fill out the contact form below to ensure you stay up-to-date with information, resources, and public events surround the SAP development. Please include any initial questions or safety concerns in the form below for the Project Team to address. We appreciate your interest!

Safety Action Plan Contact Form

Name (Required)

First

Last

Email (Required)

Enter Email

Confirm Email

Phone (Required)

(123) 456-7891

Address (Required)

Street Address

Address Line 2

City

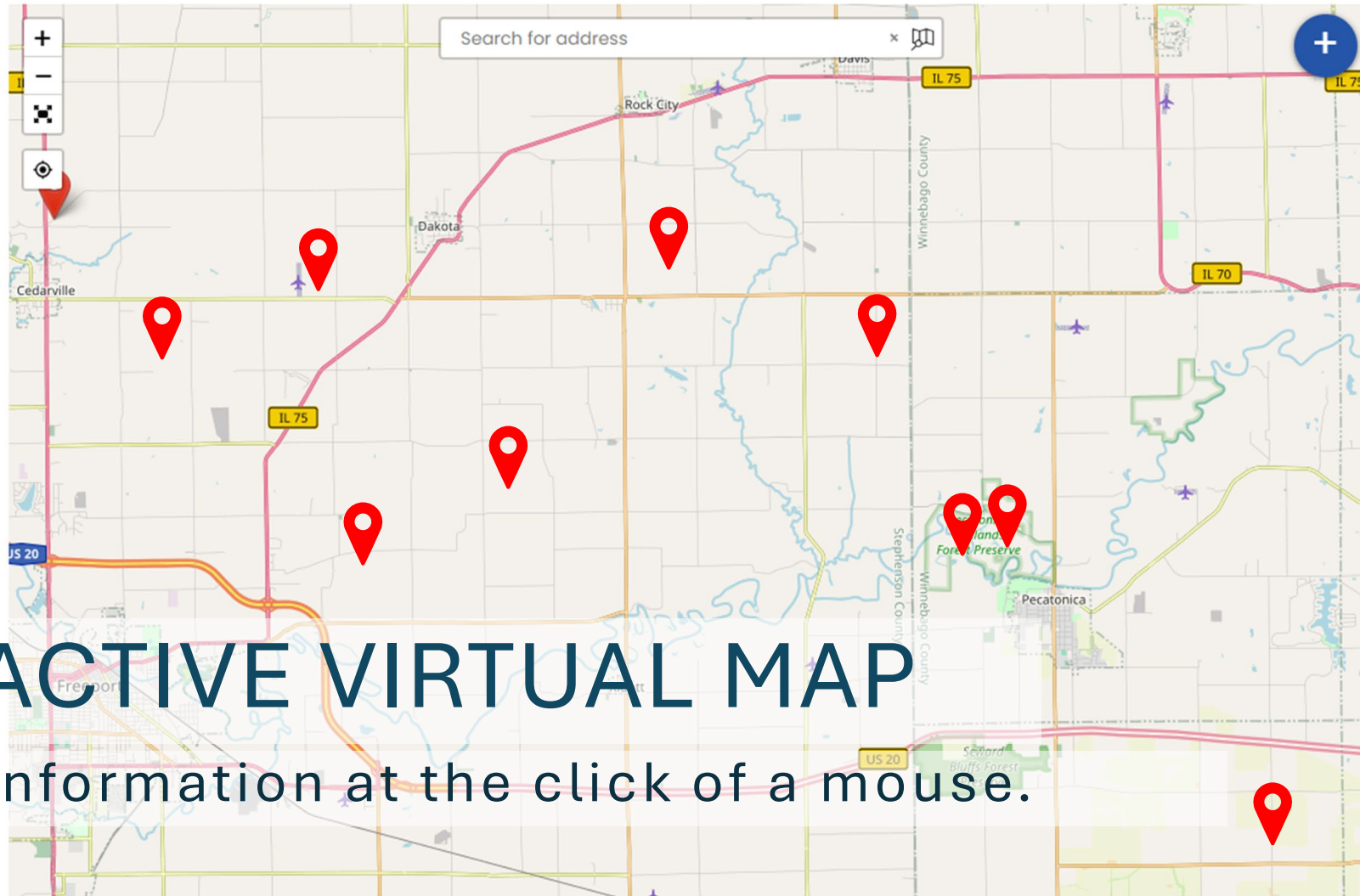
State / Province / Region

PROJECT WEBSITE

Educational Resources

Submit comments directly to Study Team

Click the Blue "+" on the Map Below to Submit a Safety Issue to the Study Team



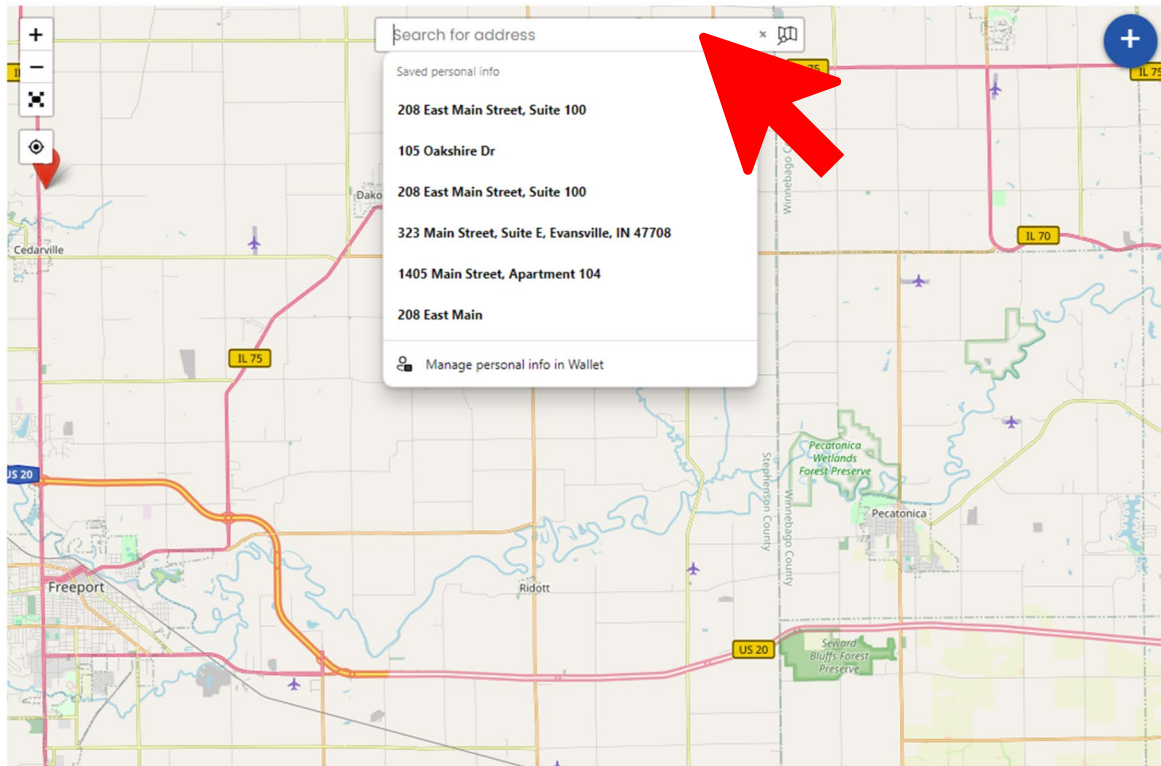
INTERACTIVE VIRTUAL MAP

Valuable information at the click of a mouse.

INTERACTIVE VIRTUAL MAP

Valuable information at the click of a mouse.

Click the Blue "+" on the Map Below to Submit a Safety Issue to the Study Team



- To search for a specific address, click the box at the top of the map.

INTERACTIVE VIRTUAL MAP

Valuable information at the click of a mouse.



- When you're ready to add a specific location with a transportation safety issue, click the blue circle "Add a Safety Issue".

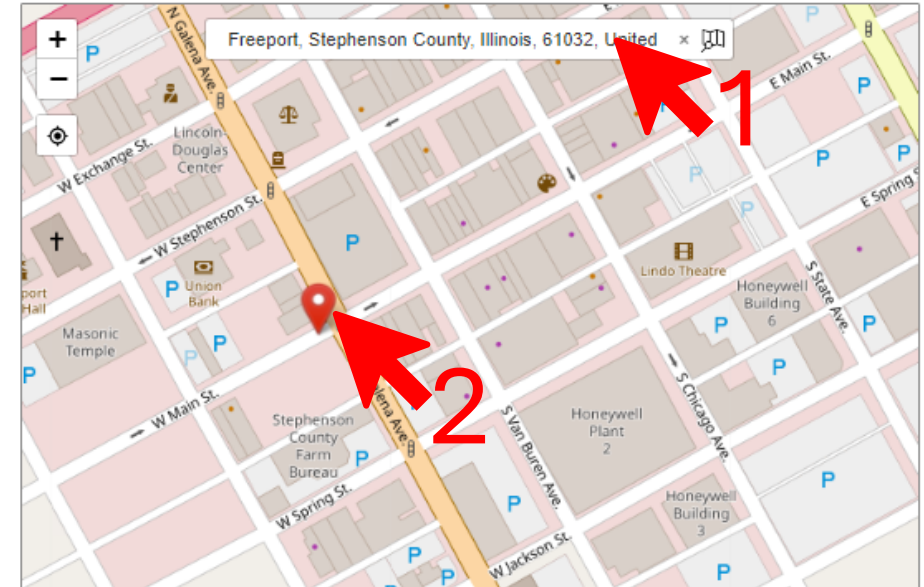
INTERACTIVE VIRTUAL MAP

Valuable information at the click of a mouse.

1. Search for a specific address to zoom in on the location
2. Click the map to “drop your pin” on the location you wish to submit to the Study Team
3. Give a brief “Title” to the location
4. Describe the issues you see for the Study Team to consider
5. Upload pictures of the infrastructure issue or location
6. Submit location to the Study Team
7. Refresh your screen to see your location populate on the map

Submit a Safety Issue to the Study Team

Click on the interactive map below to drop a “pin” where you have experience with or knowledge of safety issues on roadways, intersections, traffic signals, or other types of transportation infrastructure. Use the form below to enter details of the area, issues you have observed, and anything else you’d like to communicate to the Study Team. After you have submitted the location, refresh your screen to see your pin visible on the map.



West Main and S Galena Intersection

This intersection has bad visibility. Traffic builds up during rush hour on Main Street. Many accidents and pedestrian issues.

Upload media



Submit Location to Study Team

SAP OVERVIEW & BACKGROUND

SAP Goals: Region-Specific & Targeted

Current Problems

- ✓ Fatalities and injuries on a nationwide rise, including within this region
- ✓ Vast majority of fatalities and injuries are due to fixed-object crashes
- ✓ 22% of population is 65+

Regional Needs

- ✓ Evidence-based countermeasures
- ✓ Programmatic countermeasures
- ✓ Educational outreach
- ✓ Identification of corridors ideal for safety assessments
- ✓ Rural, automated enforcement

SAP OVERVIEW & BACKGROUND

Roadway Fatalities are on the Rise

- From 2019 to 2021, roadway fatalities increased **17.4%** nationally and **32.1%** in Illinois.
- The northwest Illinois region followed this upward trend, with fatalities increasing by **7.1%** in your six counties.



5 YEARS IN SIX COUNTIES

What is the economic impact of vehicle crashes?

From 2018 – 2022 vehicle crashes in the 6-county area had an estimated economic impact* of \$500 million.

*Estimated cost based on estimates made by the National Safety Council for 2021.

5 YEARS IN SIX COUNTIES

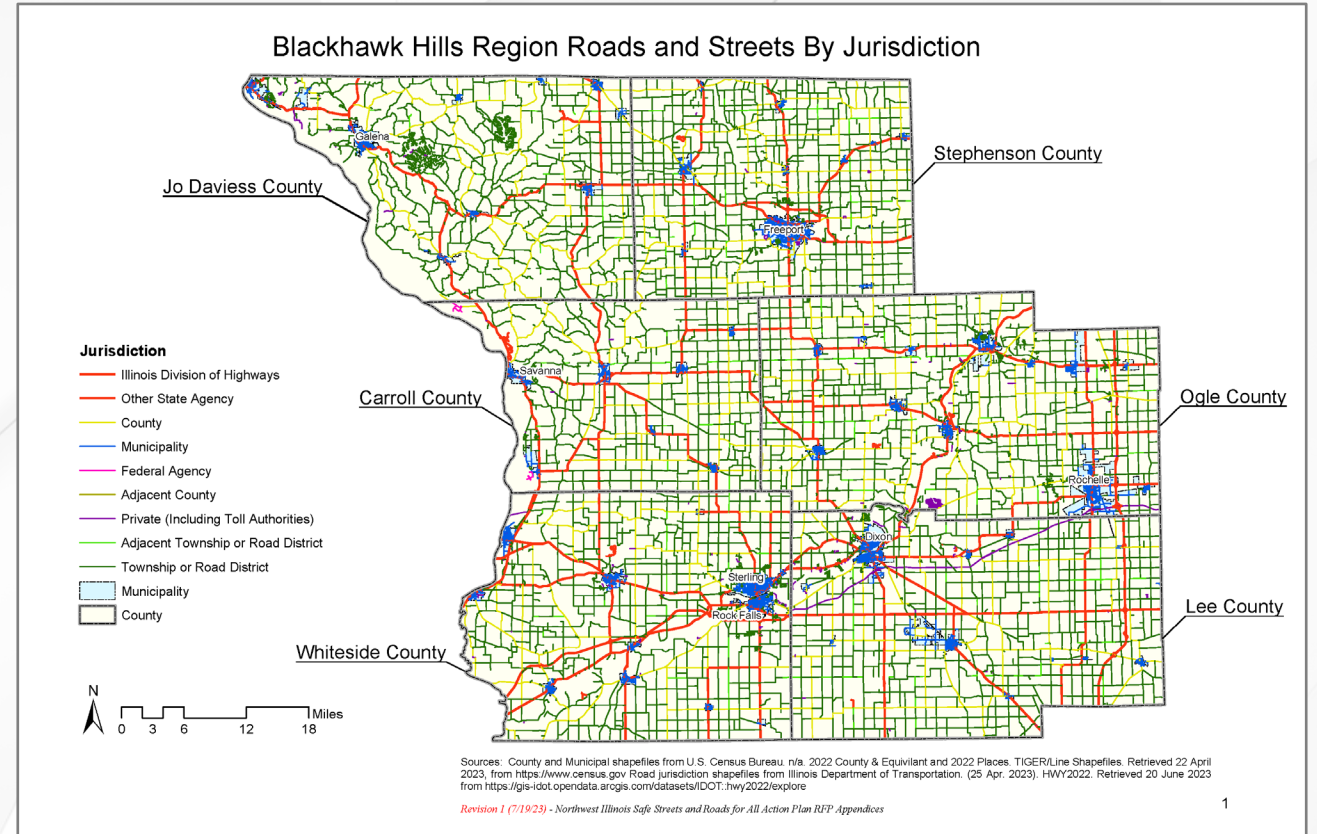
More than numbers...

DAMION, DILLON, CHARLES, WILLIAM, DAVID, GOLMAND, TERRANCE, ROBERT, MICHAEL, KEISHON, BETH, MILES, MANUEL, SARAH, BENNIE, GUNNER, OLIVIA, WANITA, AMY, WELDON, ALBERT, MELINDA, LAYCIE, EARL, LUCIOUS, KATRENA, ADAM, ISABELLA, MICHAEL, JEREMIAH, LAINE, JEREMY, JOSHUA, CAROLYN, RONNA, CARY, ALISHA, DANIELLE, BRITTANY, MATTHEW, OLIVER, JORDAN, HANNAH, EDWIN, BRENDA, GREGORY, KARL, KAP, GREGORY, NOAH, ANTHONY, CLARA, JEREMY, DYLAN, JEREMIAH, FIDEL, ALMAMY, PAMELA, SUTTON, RICARDO, BENJAMIN, EMMA, JOHN, LINDA, EMMA, MICHAEL, TIFFANY, NOAH, SCOTT, GEORGE, JOHN, LINDA, RODNEY, WILLIAM, LINDA, THEODORE, GARY, JOSHUA, TIFFANY, JOSHUA, OSCAR, ROBERT, MILO, JIMMY, ERNEST, DONNA, JONAH, LEE, TODD, DANA, RASHAUN, MICHAEL, KAMERON, JEFFREY, ASHTYNN, PHILIP, TIMOTHY, KARLIE, KAPONO, DANNY, NINA, ASHTYNN, LAILA, JURELL, FERNANDA, BERNARD, SYLVIA, ERNEST, SYRUS, ANDREW, PHILIP, ALEXIS, ASHTON, AVERY, ETHAN, CHRISTOPHER, KENNETH, RUTHELYN, ZACHERY, KENNETH, CODY, OSCAR, DOUGLAS, EDGAR, JOSHUA, DOUGLAS, ROBERT, AMBER, DOUGLAS, STEPHEN, WILLIAM, AIDAN, TAYSHA, CHANTEL, DENNIS, MICHELLE, KIMMUEL, TERRI, KANE, ETHAN, TAYSHA, JEROME, TERRI, BARBARA, MICHAEL, JAMES, BROOKE, RICHARD, BARBARA, TIMOTHY, MICHAEL, AIDAN, TODD, JEROME, LAVELL, KYARI, TAYSHA

SAP OVERVIEW & BACKGROUND

SS4A Funding Safety Measures

- These trends in NW Illinois prompted the **BHRC** and the **six counties** to apply for a Safe Streets for All (SS4A) grant in 2023.
- SS4A was established through the Bipartisan Infrastructure Law in 2022 and allocates \$5 billion to support initiatives through grants to prevent roadway deaths and serious injuries.



SAP OVERVIEW & BACKGROUND

What is SS4A?

The goal of an SS4A SAP is to develop a holistic, well-defined strategy to prevent roadway fatalities and serious injuries in a community, region, or Tribe. The program supports the goal of zero roadway deaths using the Safety System Approach.

Safe System Principles:

- Death and Serious Injuries are Unacceptable
- Humans Make Mistakes
- Humans Are Vulnerable
- Responsibility is Shared
- Safety is Proactive
- Redundancy is Crucial



SAP OVERVIEW & BACKGROUND

Safe System Elements



SAFER PEOPLE



SAFER VEHICLES



SAFER SPEEDS



SAFER ROADS



POST-CRASH CARE

SAP OVERVIEW & BACKGROUND

Safer People



Walk



Bike



Drive



Transit



Other

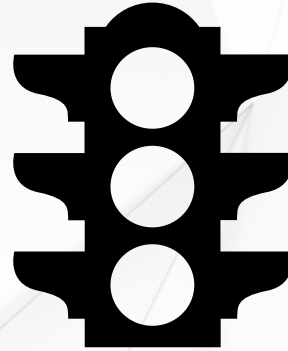
Content Source: FHWA; Source for all images: Fehr & Peers

SAP OVERVIEW & BACKGROUND

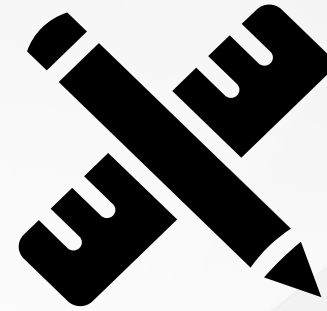
Safer People



**Not distracted
or impaired**



Follow rules



**Act within the
limits of the
road design**

SAP OVERVIEW & BACKGROUND

Safer Vehicles



Active safety

Measures to reduce the chance of a crash occurring

- Lane departure warning
- Autonomous emergency braking

Passive safety

Protective systems for when crashes do occur

- Seatbelts and airbags
- Crash-absorbing vehicle crumple zones

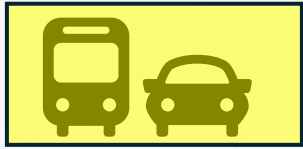
Other road user safety

Measures that protect other road users

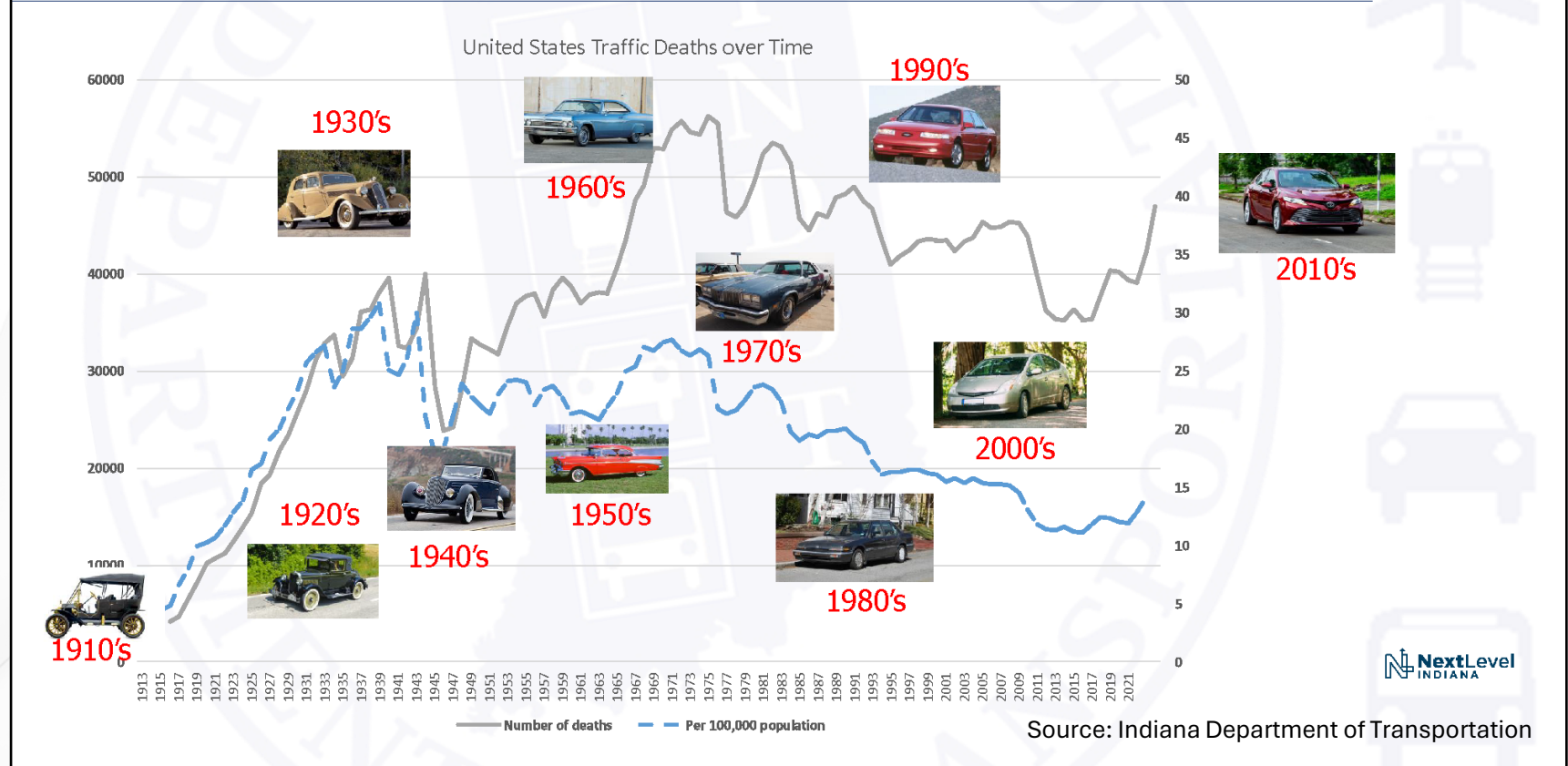
- Bicyclist and pedestrian detection
- Vehicle size and design

SAP OVERVIEW & BACKGROUND

Safer Vehicles



Traffic Safety Over Time

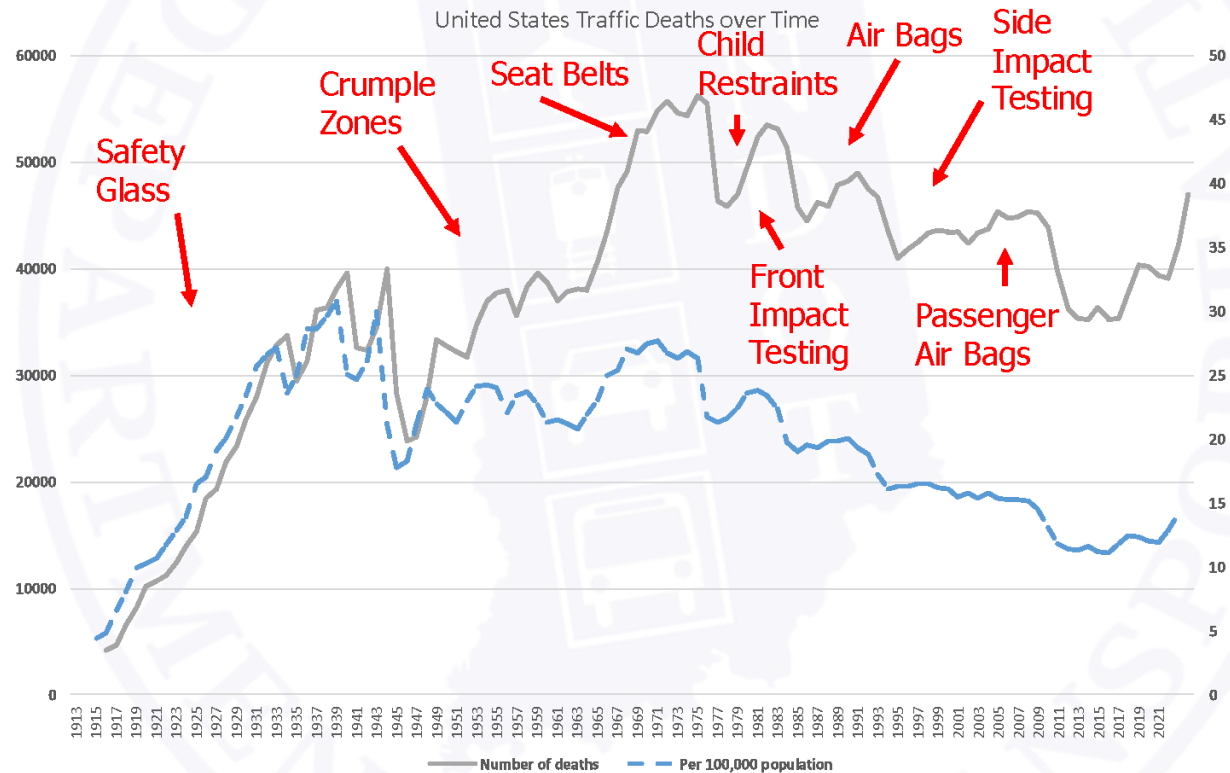


SAP OVERVIEW & BACKGROUND

Safer Vehicles



Traffic Safety Over Time

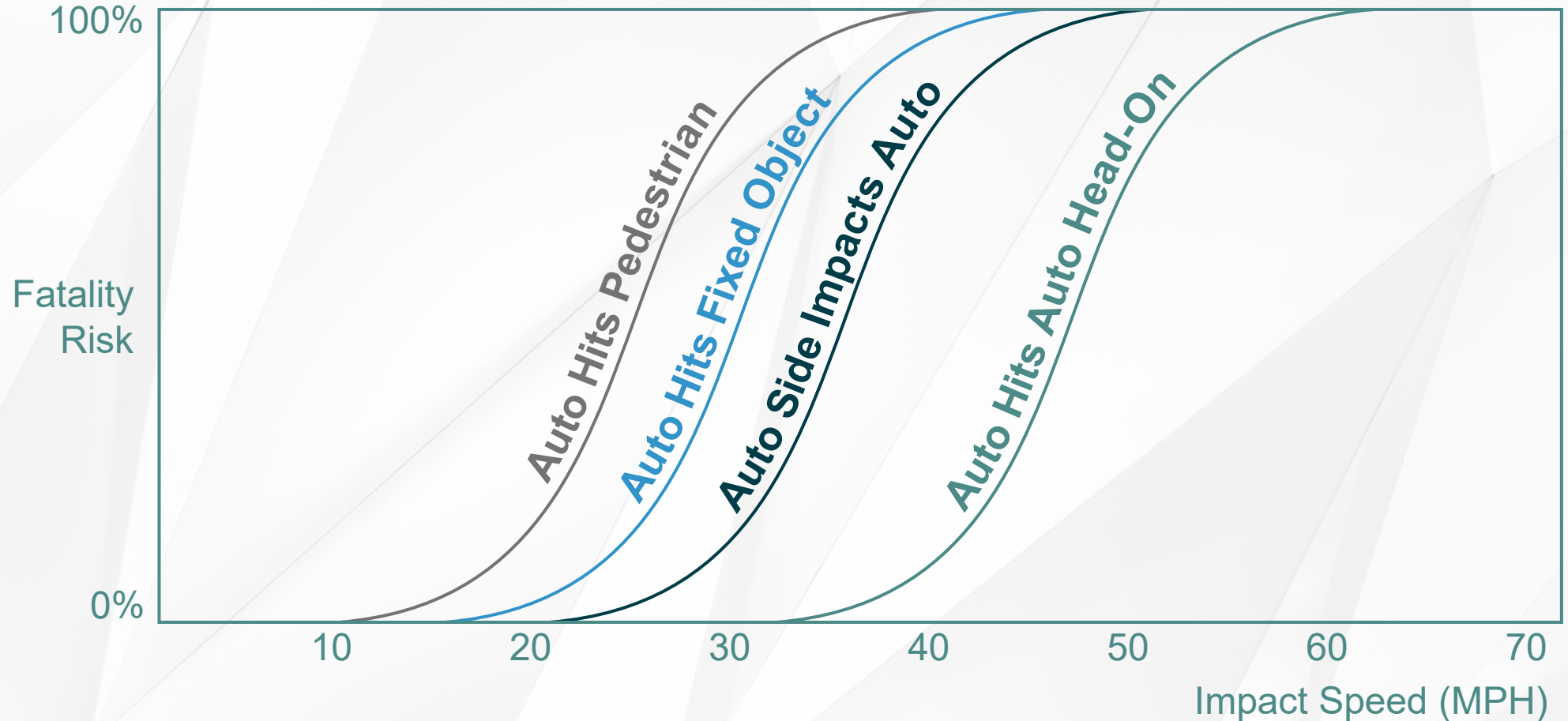


Source: Indiana Department of Transportation

SAP OVERVIEW & BACKGROUND

Safer Speeds

Source: FHWA



SAP OVERVIEW & BACKGROUND

Safer Speeds

Speed through typical intersection



Source: Fehr & Peers

Speed through Safe System intersection



Source: City of Carmel, IN



SAP OVERVIEW & BACKGROUND

Safer Roads

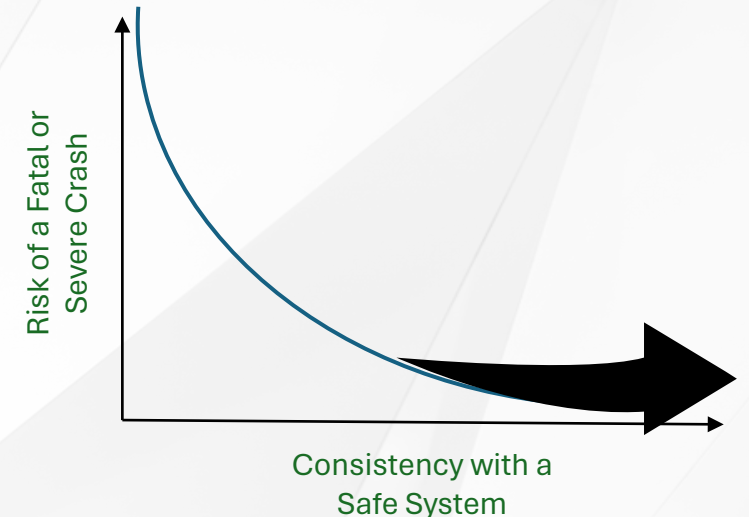


Safe roads are designed and operated to:

1. Prevent crashes among all users
2. Keep impacts on the human body at tolerable levels

Think of “Safe Roads” as a continuum – not an absolute

1. The aim is to design and operate roads to continuously approach toward creating a Safe System by implementing features appropriate for the intended and actual road use and speed environment
2. Reduce the likelihood of error
3. Reduce the consequences of error



SAP OVERVIEW & BACKGROUND

Safer Roads



Roadway Departure Crashes



**Solution:
Keep Vehicles
In Their Lane!**



Source: Indiana Department of Transportation

SAP OVERVIEW & BACKGROUND

Safer Roads

Managing Kinetic Energy Involves



Managing speed



Managing
crash angles



Managing crash
energy
distribution

SAP OVERVIEW & BACKGROUND

Safer Roads

Producing Effective FHWA Countermeasures Are Identified



[Pavement Friction Management](#)



[Enhanced Delineation for Horizontal Curves](#)



[Longitudinal Rumble Strips and Stripes on Two-Lane Roads](#)



[Median Barriers](#)



[Wider Edge Lines](#)



[Roadside Design Improvements at Curves](#)



[SafetyEdgeSM](#)



[Backplates with Retroreflective Borders](#)



[Systemic Application of Multiple Low-Cost Countermeasures at Stop-Controlled Intersections](#)



[Corridor Access Management](#)



[Road Diets \(Roadway Configuration\)](#)



[Lighting](#)

SAP OVERVIEW & BACKGROUND

Post Crash Care



**Crash
investigation**



**First
responders**

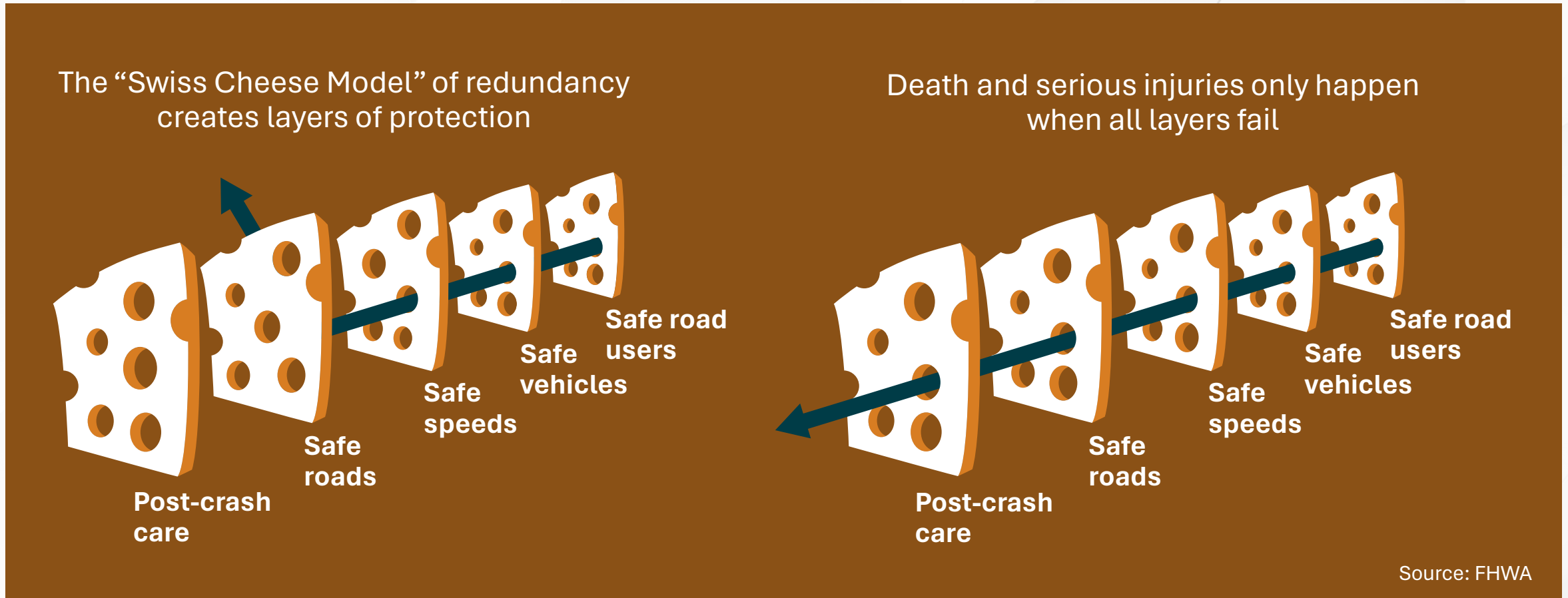


Medical care



SAP OVERVIEW & BACKGROUND

The Safe System Elements Create Redundancy



PURPOSE OF A SS4A SAFETY ACTION PLAN

Why is it valuable?

Traditional approach

Prevent crashes



Improve human behavior



Control speeding



Individuals are responsible



React based on crash history



Safe System approach

Prevent death and serious injuries

Design for human mistakes/limitations

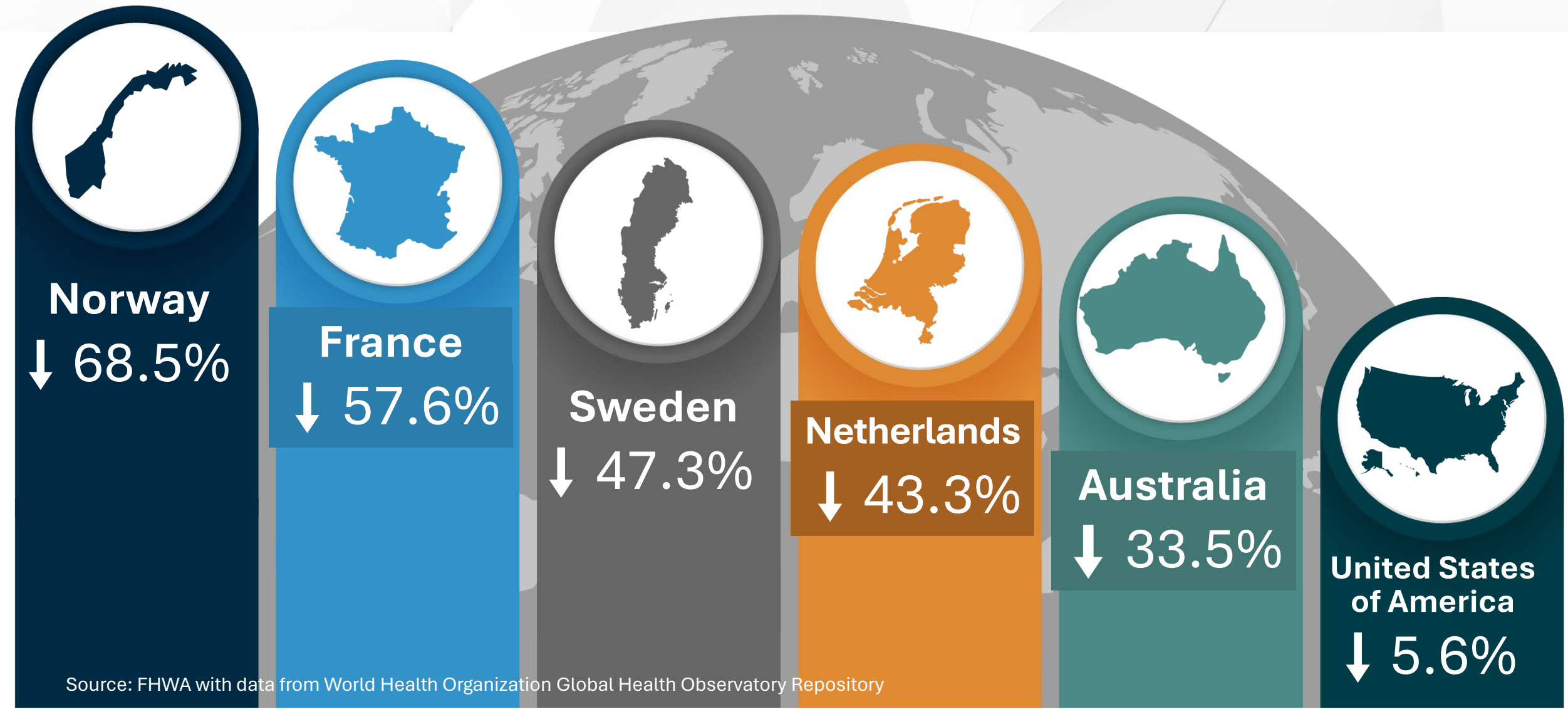
Reduce system kinetic energy

Share responsibility

Proactively identify and address risks

PURPOSE OF A SS4A SAFETY ACTION PLAN

Why is it valuable?



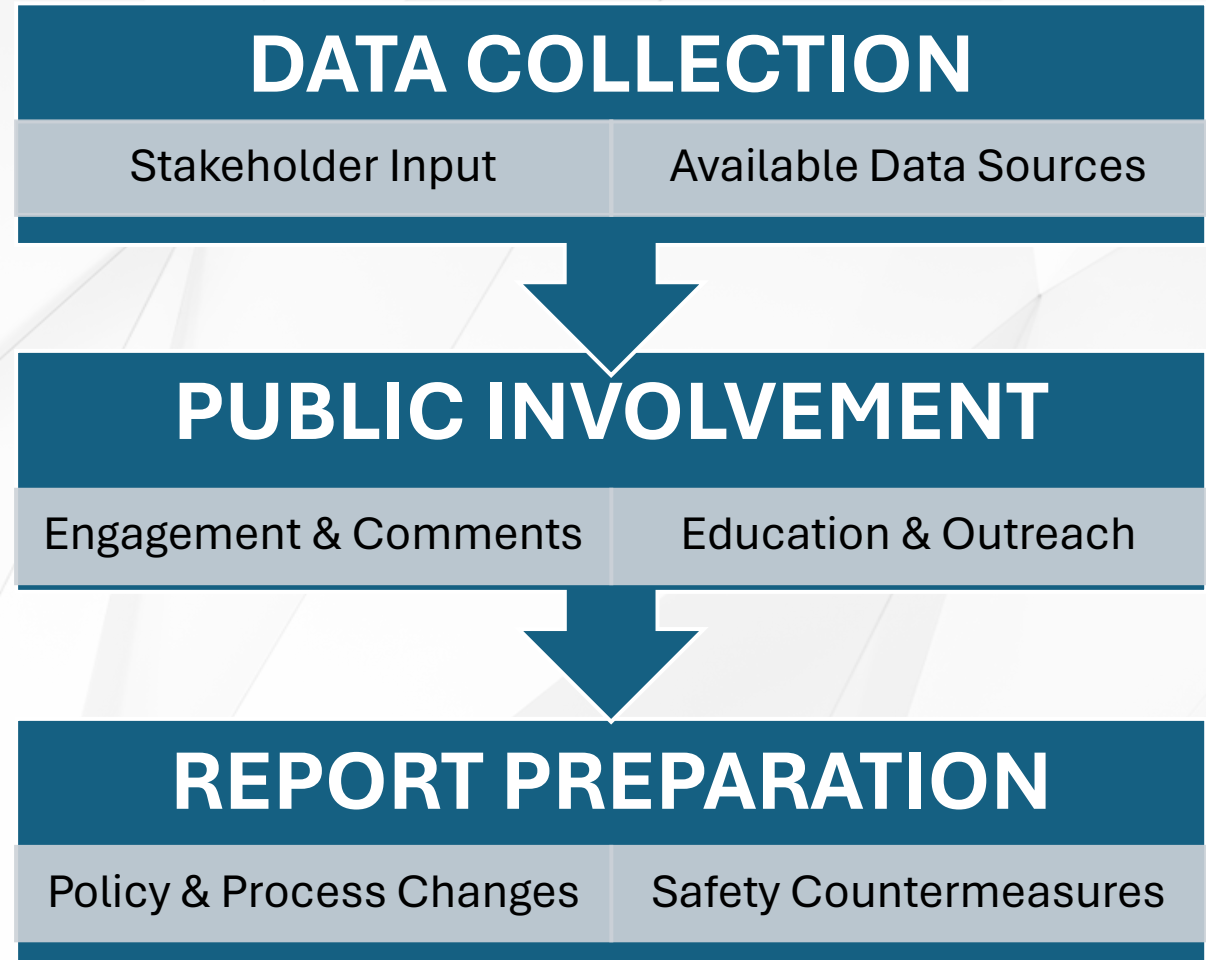
SAP OVERVIEW & BACKGROUND

What goes into the SAP?

The SAP will rely on data collected, surveys, and **stakeholder input** to suggest safety countermeasures that will be in accordance with SS4A program requirements.

The SAP will be used as a **guide** for future infrastructure, design, engineering, and policy.

The ultimate goal of SS4A programs is to reach **zero deaths**. This vision is going to take an **100% commitment**, not only from municipal leadership, but from the public as well.



DATA COLLECTION

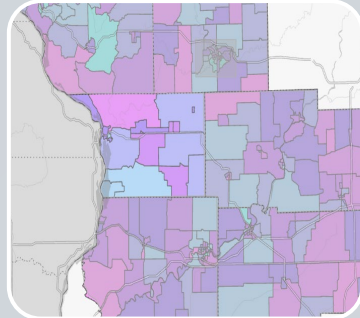
Data – what are we reviewing?



Crash Records

Source: Illinois
Department of
Transportation
(IDOT)
(2018-2022)

|
Data-Driven
Safety
Analysis



Demographics

Source: U.S. Census
Bureau, 5-Year
American
Community Survey
(2022)

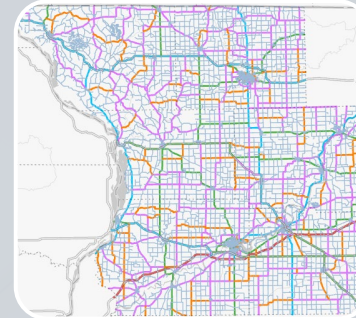
|
Equity
Analysis



Existing Plans and Policies

Source:
Participating
Agencies;
(Para)Transit,
Freight, Ped/Bike,
Complete Streets

|
Planning
Synergy



Roadway Network

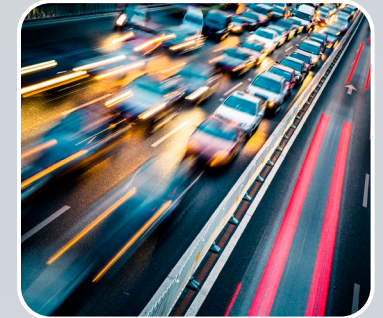
Source: IDOT Illinois
Highway System File
(2022)

|
High Risk
Locations
Geospatial
Identification



Stakeholder Input

Source: You
|
Local
Expertise



Average Speed Trends

Source: GPS Data
(Iteris)

|
Risk
Identification

IDENTIFYING SAFETY ISSUES

Where are the areas of concern?

Collision Reports

- Existing Conditions & Historical Trends

Crash Location

- Geospatial Identification

Risk Assessment

- Systemic/Specific Safety Needs

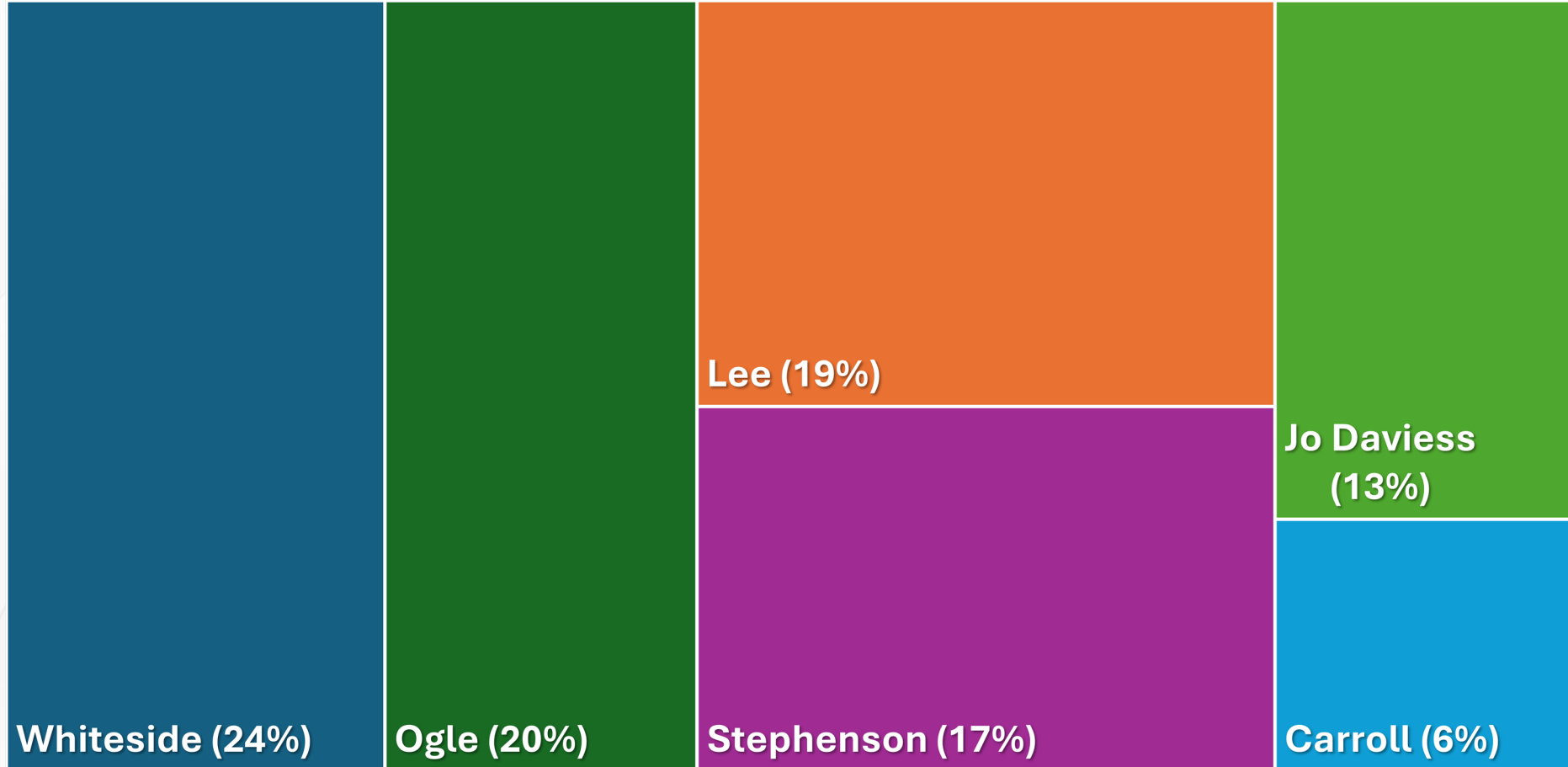
Roadway Data

- Location, Severity, & Contributing Factors



IDENTIFYING SAFETY ISSUES

Where are the crashes located?



IDENTIFYING SAFETY ISSUES

What are the crash types?



All Severities – 19,090 Crashes

- Animal (4917, 26%)
- Fixed Object (3902, 20%)
- Rear End (2062, 11%)



Pedestrian
& Bicyclist
Crashes

All Severities
159, <1%



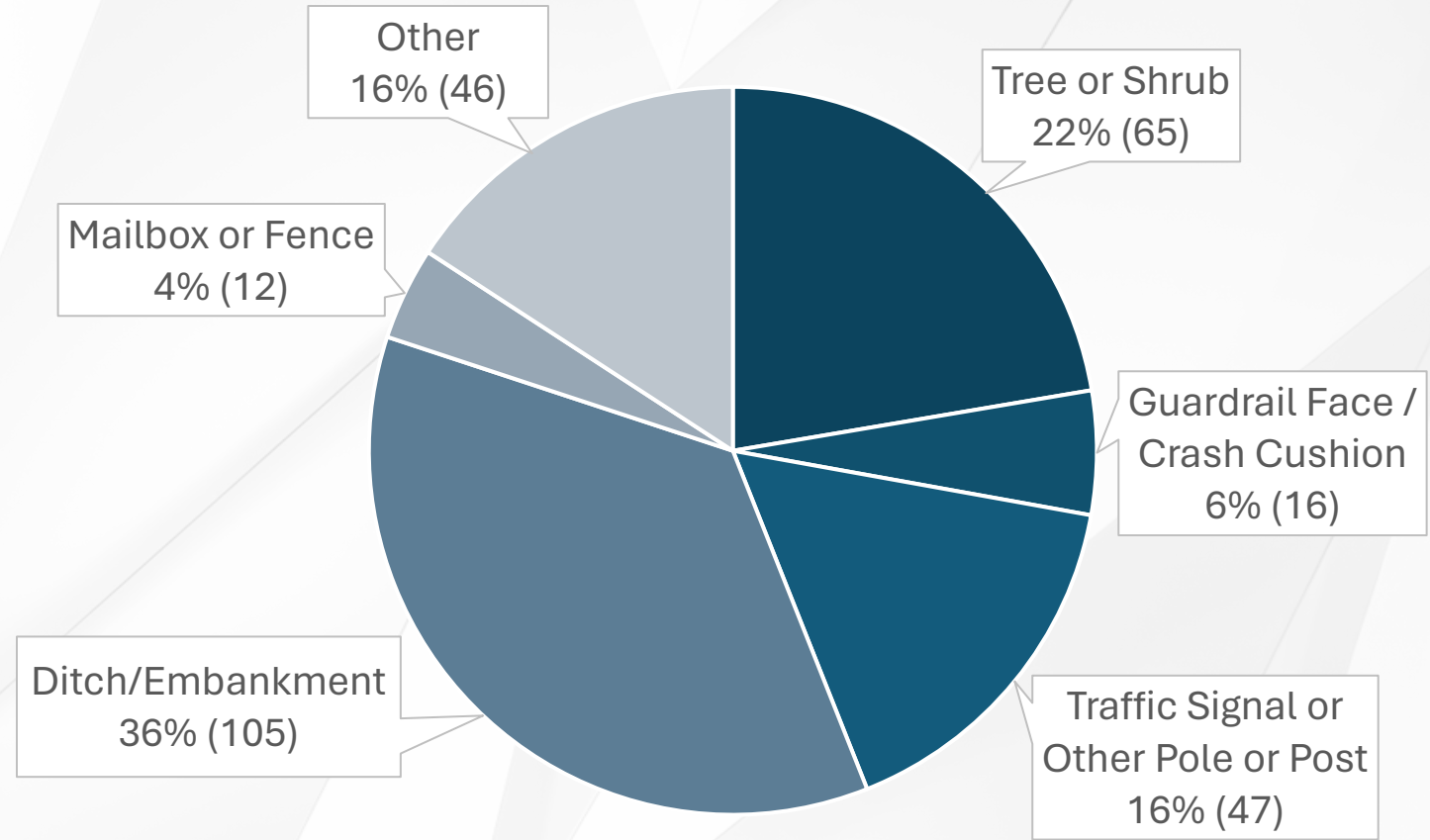
Fatal and Incapacitating Injury – 948 Crashes

- Fixed Object (276, 29%)
- Overturned (167, 18%)
- Angle (107, 11%)

Fatal and
Incapacitating Injury
53, 6%

IDENTIFYING SAFETY ISSUES

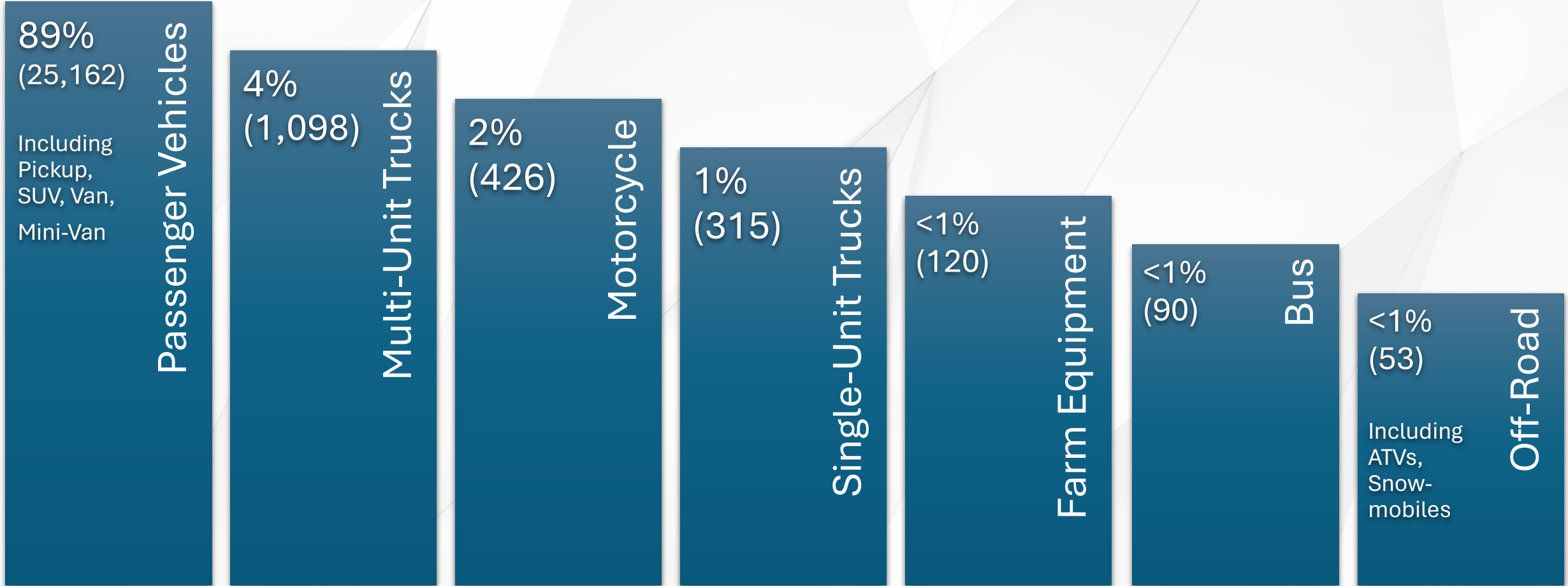
What are the fixed object types?



*Representing Fixed Object collision types with Fatal and Serious Injury severity

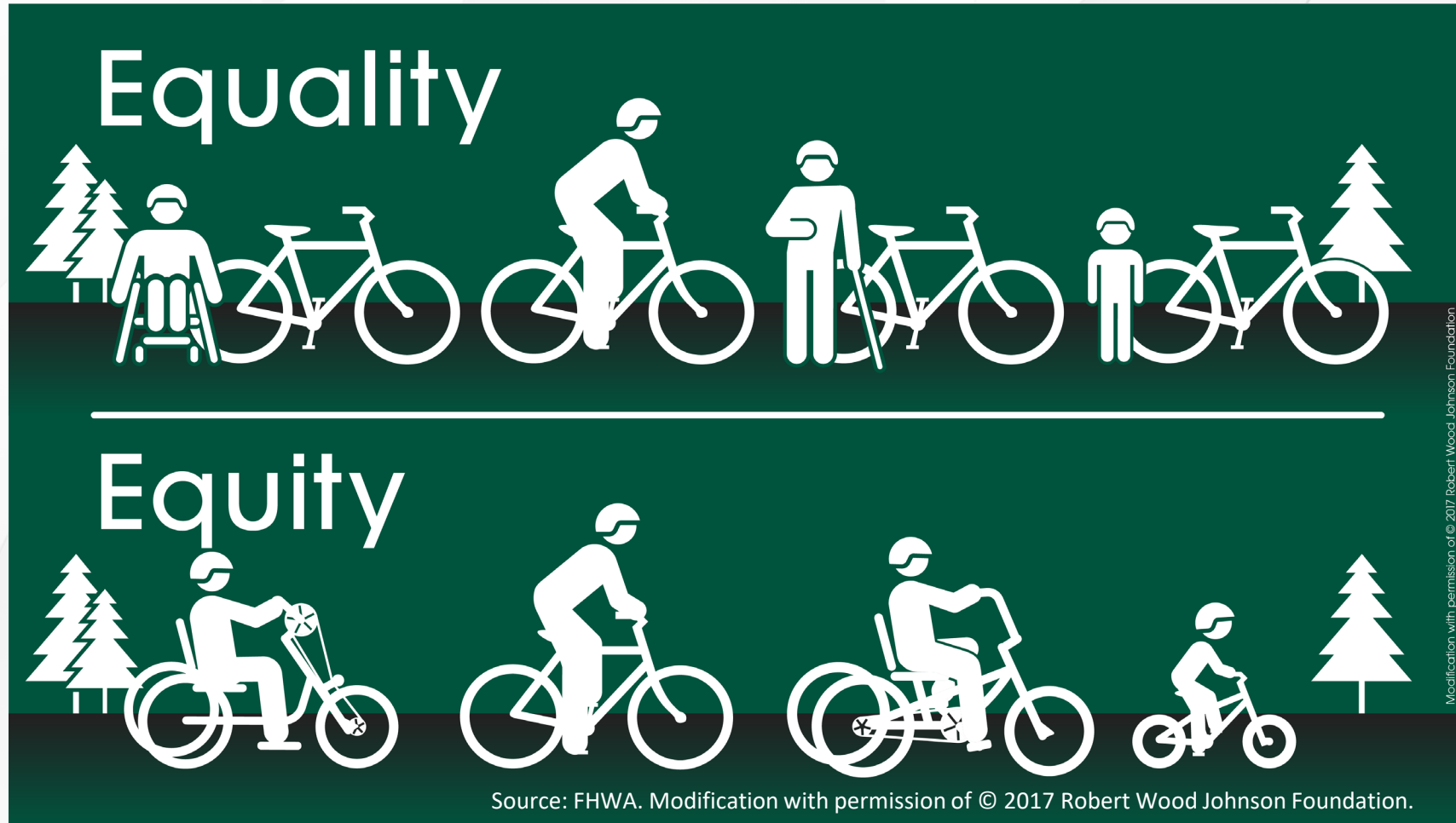
IDENTIFYING SAFETY ISSUES

What vehicle types are involved in crashes?



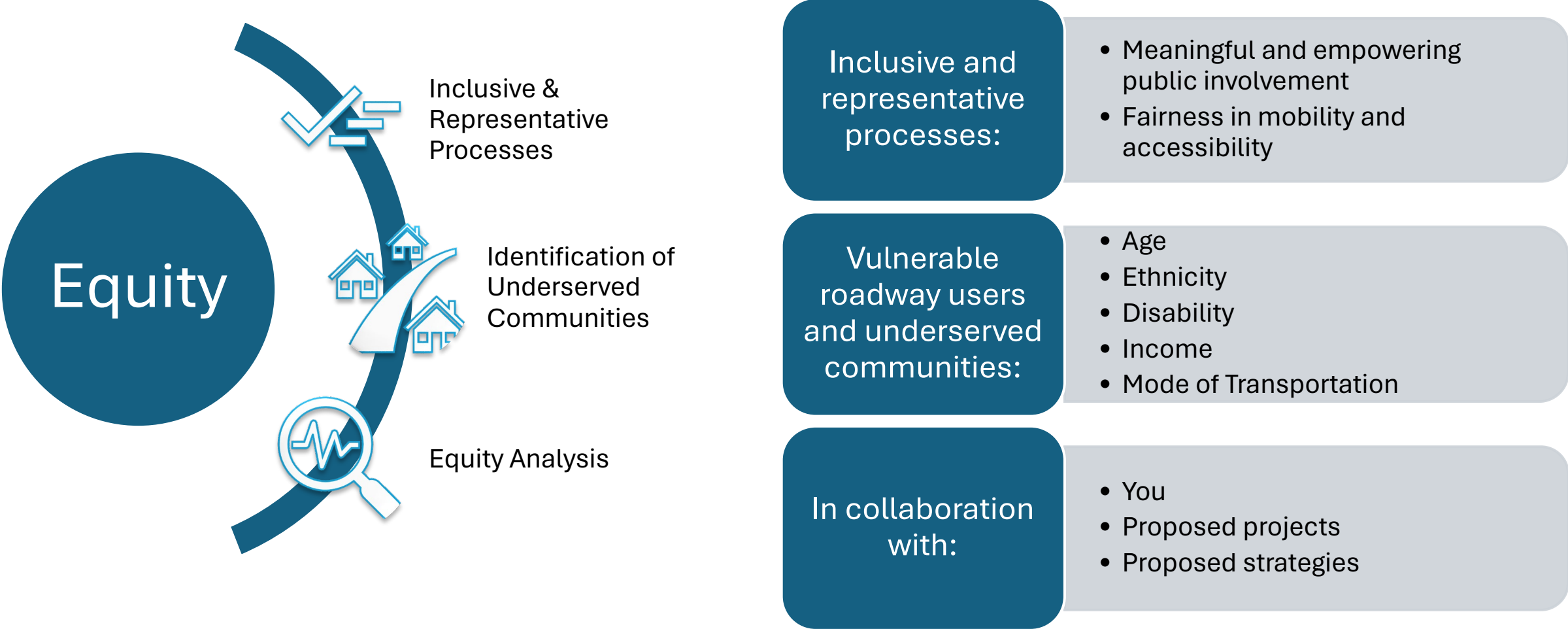
EQUITY CONSIDERATIONS

What demographics and/or equity considerations should we be cognizant about during the study?



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EQUITY CONSIDERATIONS

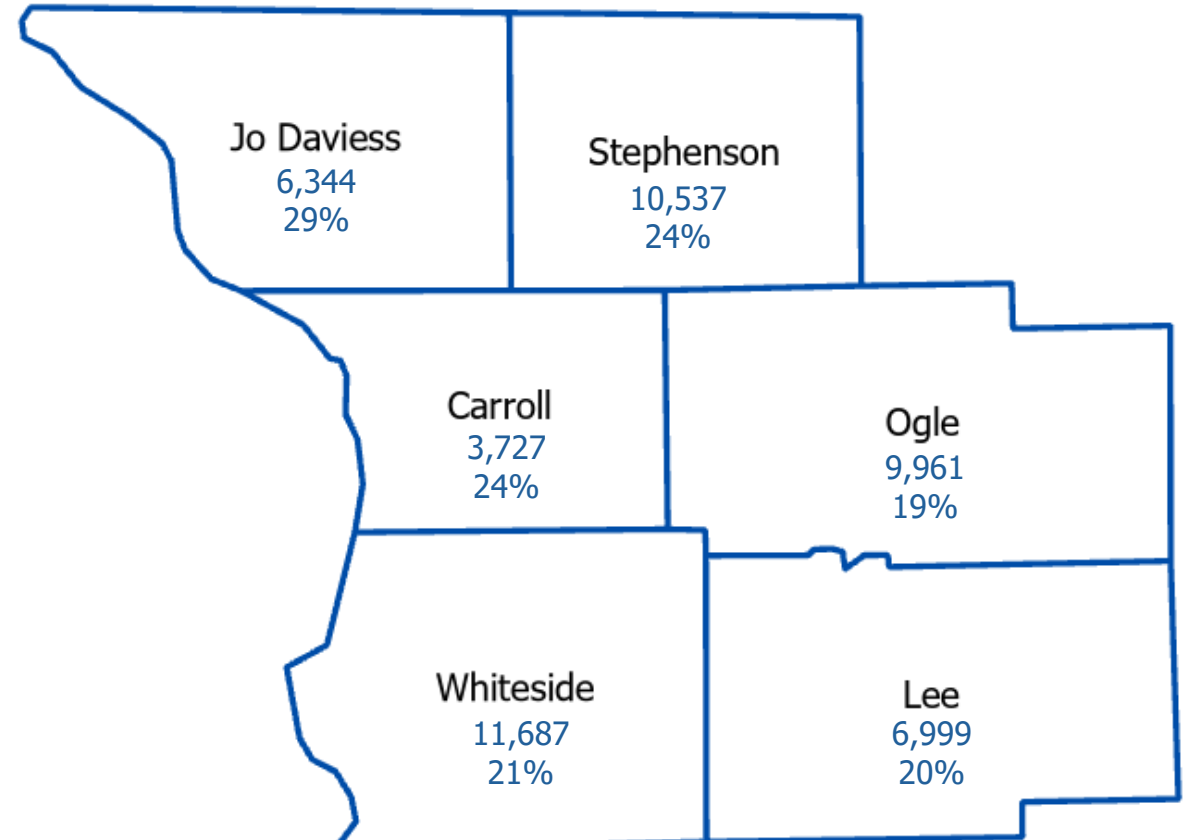


Vulnerable Users

Over Age 64

49,256 people

out of a total surveyed population of 223,480 (22%)
are over the age of 64



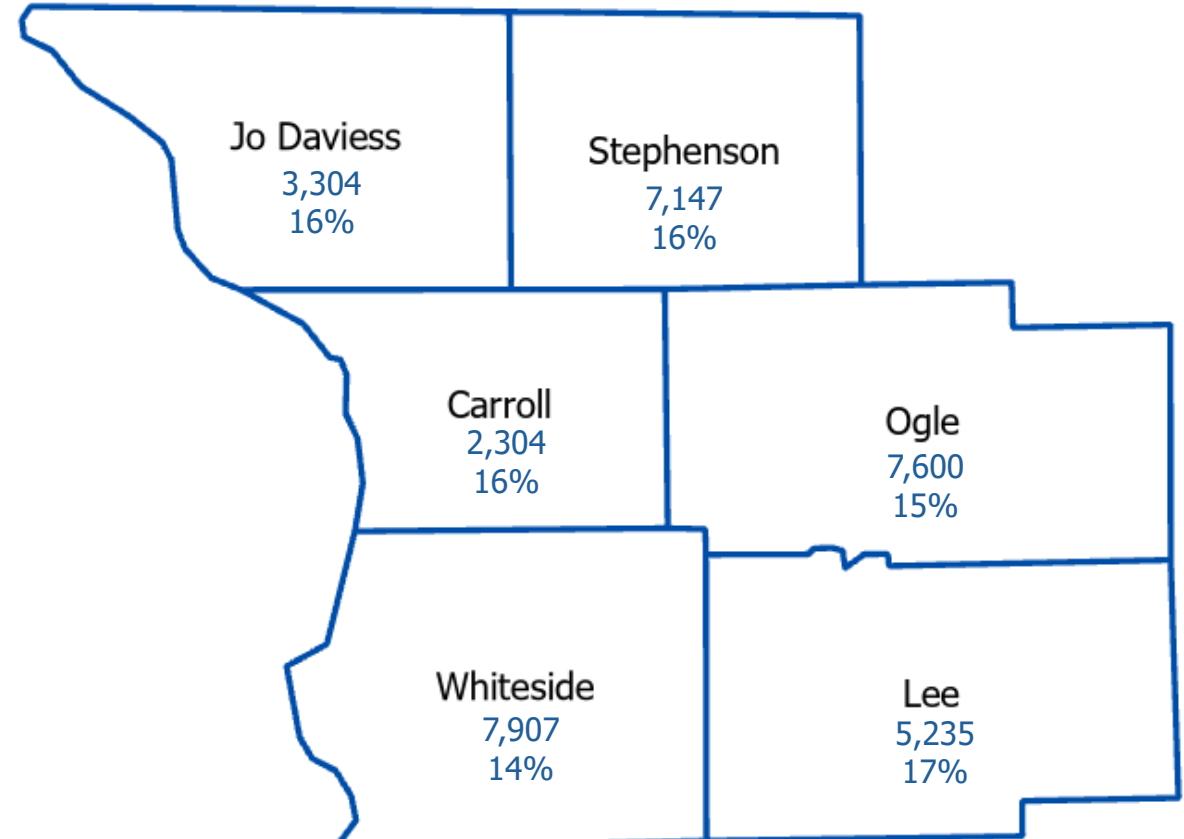
Source: U.S. Census Bureau
2018-2022 ACS 5-Year Estimates

EQUITY CONSIDERATIONS



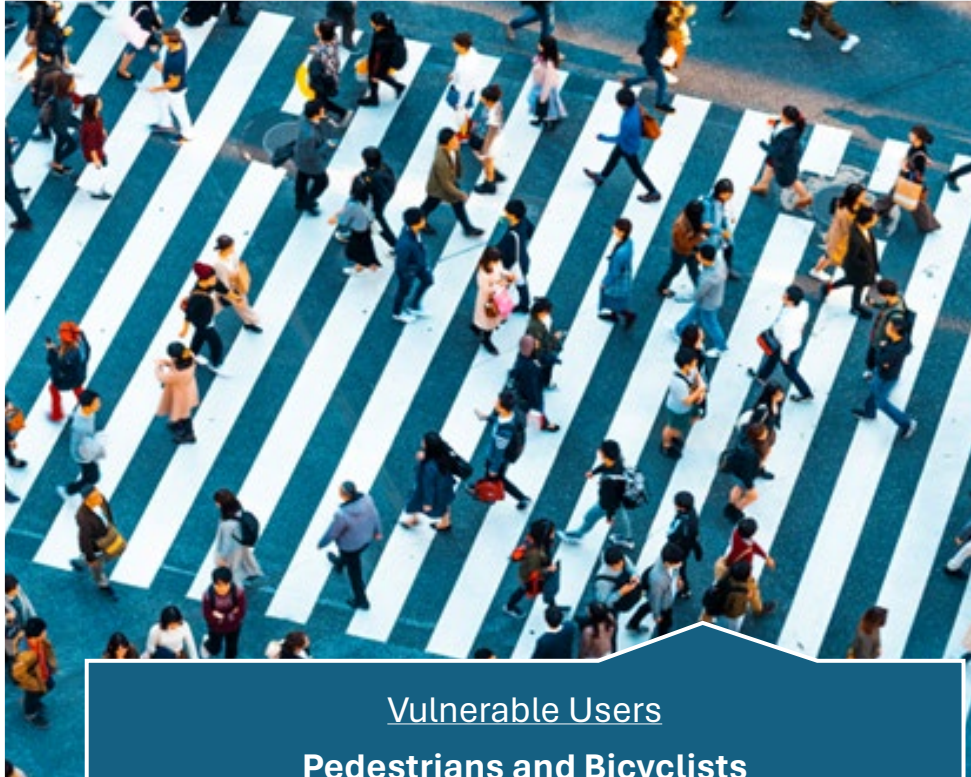
Vulnerable Users
Ambulatory or Visual Disability

33,498 people
out of a surveyed 217,618 total people (15%)
have an ambulatory, visual, or other disability



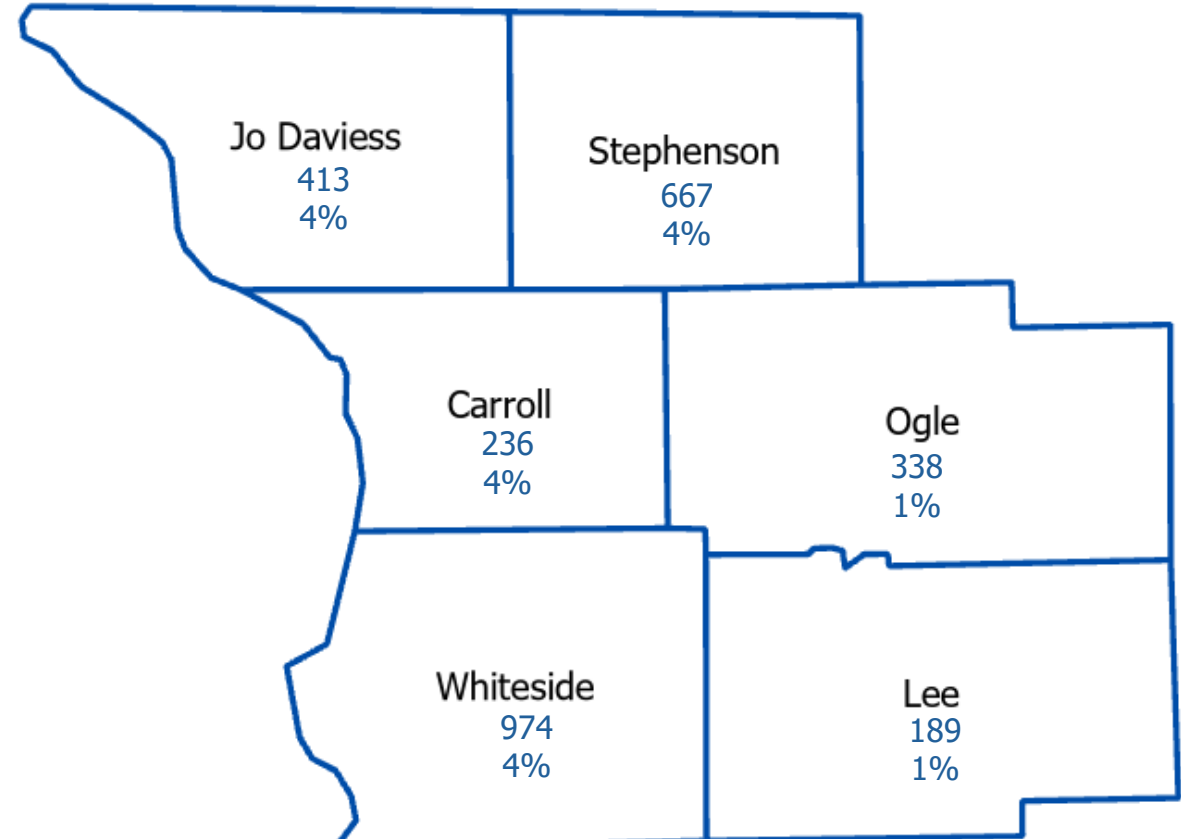
Source: U.S. Census Bureau
2018-2022 ACS 5-Year Estimates

EQUITY CONSIDERATIONS



Vulnerable Users
Pedestrians and Bicyclists

2,817 people
out of a total surveyed population 96,416 (3%)
reported biking or walking to work



Source: U.S. Census Bureau
2018-2022 ACS 5-Year Estimates

EQUITY CONSIDERATIONS

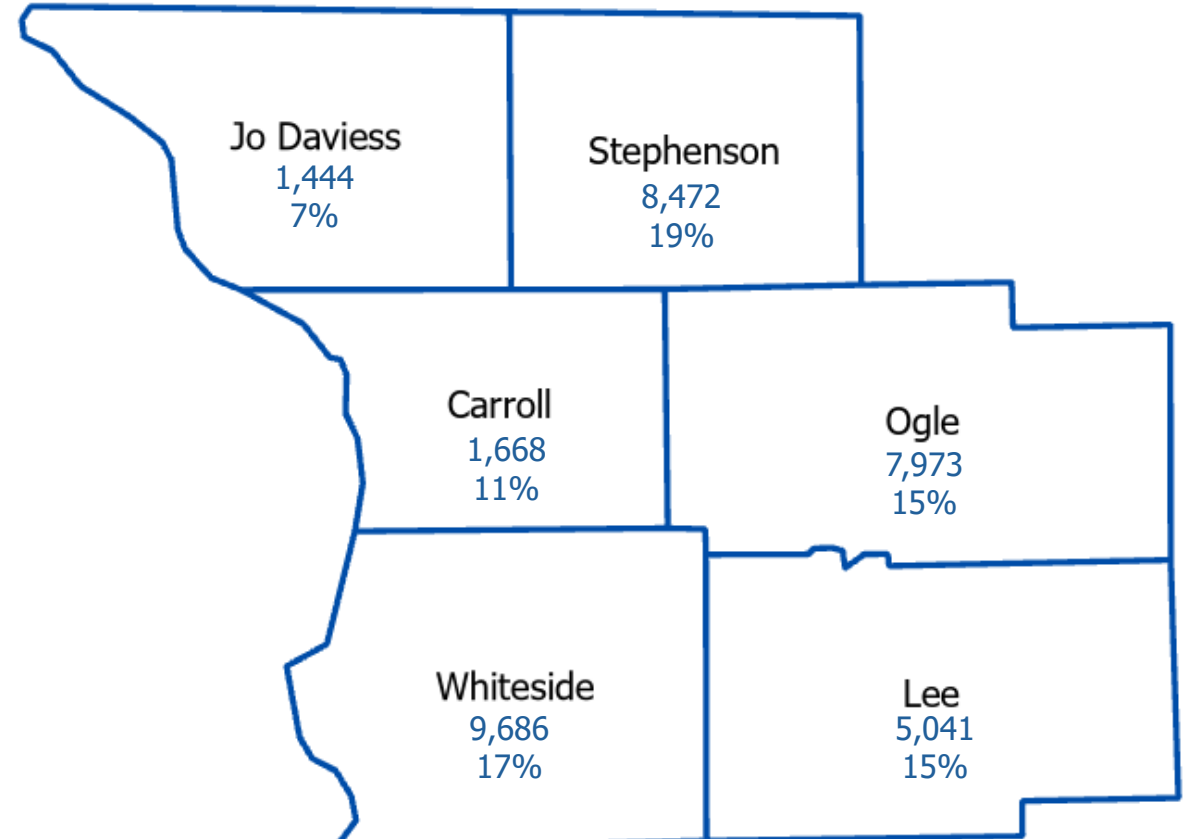


Historically Underserved Communities

Minority Ethnicities

34,284 people

out of a total surveyed population of 223,480 (15%)
are of minority ethnicity



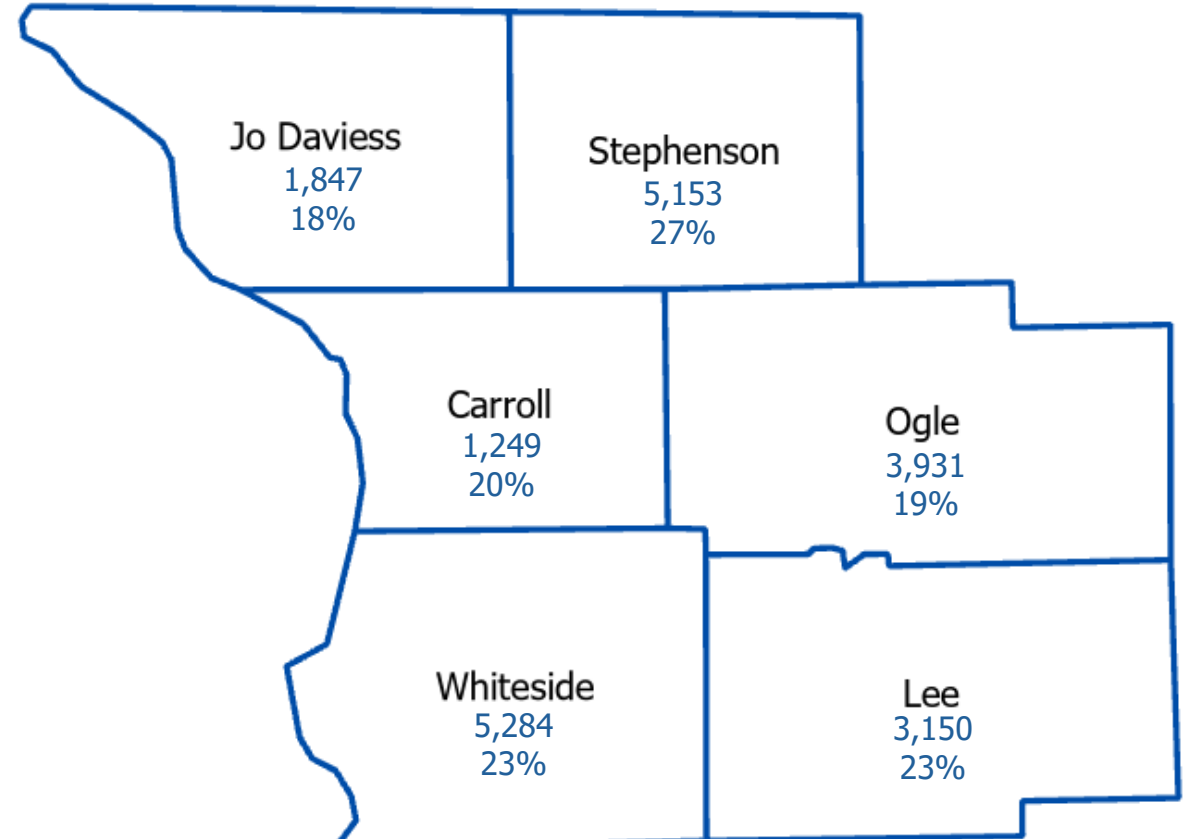
Source: U.S. Census Bureau
2018-2022 ACS 5-Year Estimates

EQUITY CONSIDERATIONS



Historically Underserved Communities
Low Income
20,614 households
out of a total 93,368 surveyed households (22%)
reported a median household income below \$30,000*

*2021 Illinois Poverty Line for a family of four is \$27,479

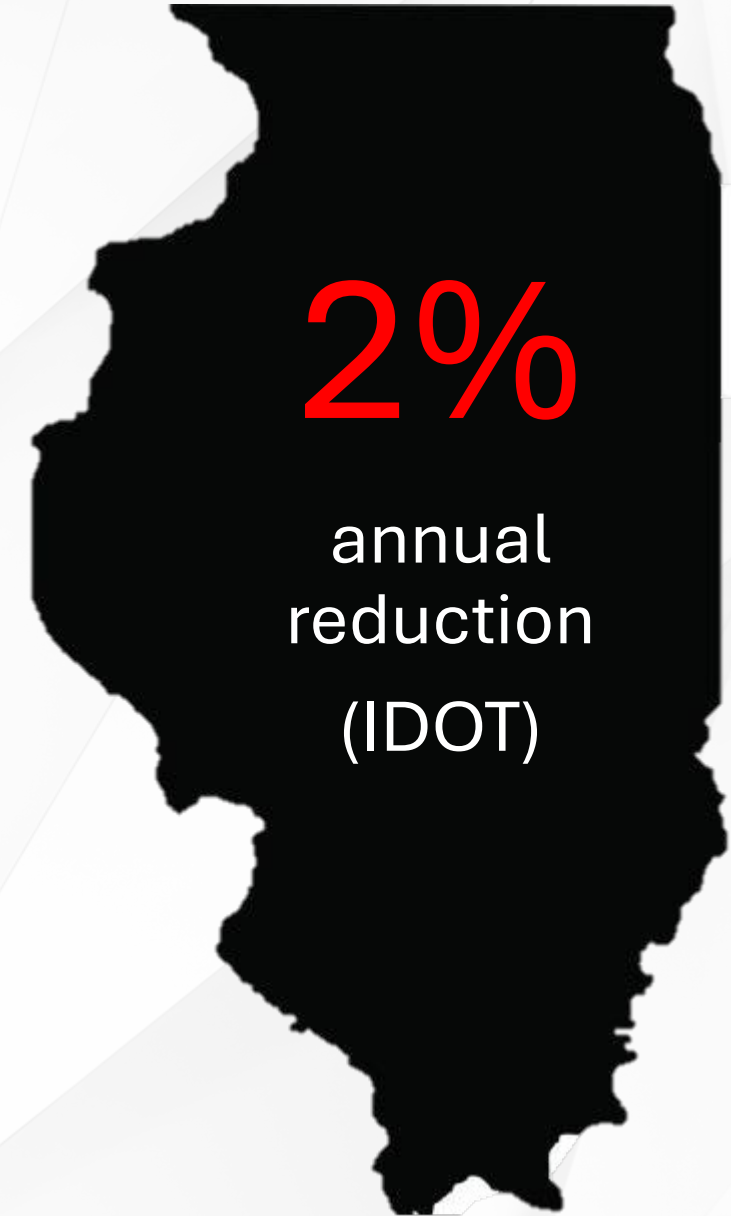


Source: U.S. Census Bureau
2018-2022 ACS 5-Year Estimates

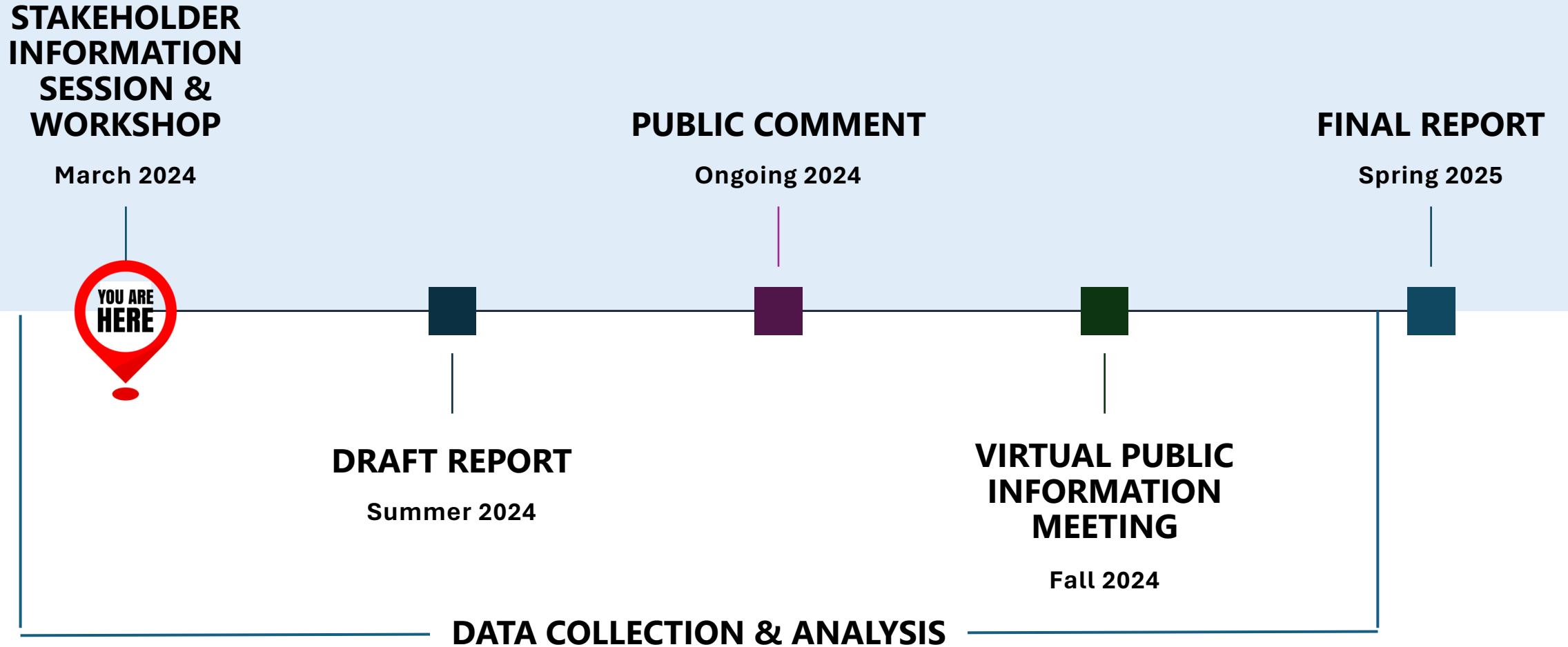
GOAL SETTING

Making roads safer and protecting users.

- ✓ Critical to meeting SS4A funding requirements.
- ✓ What do you need to consider for goal setting?
- ✓ Is it a percentage reduction over time?
- ✓ Match IDOT?



WHAT TO EXPECT



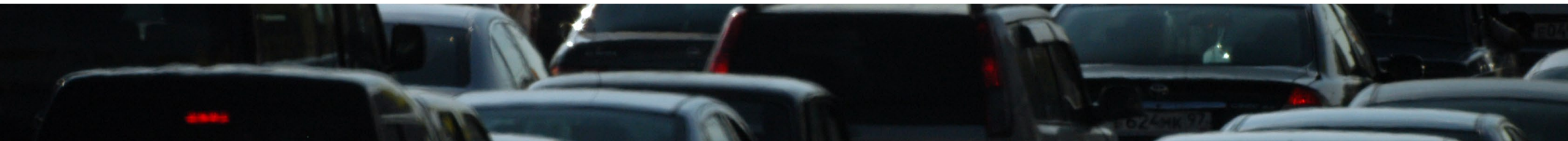


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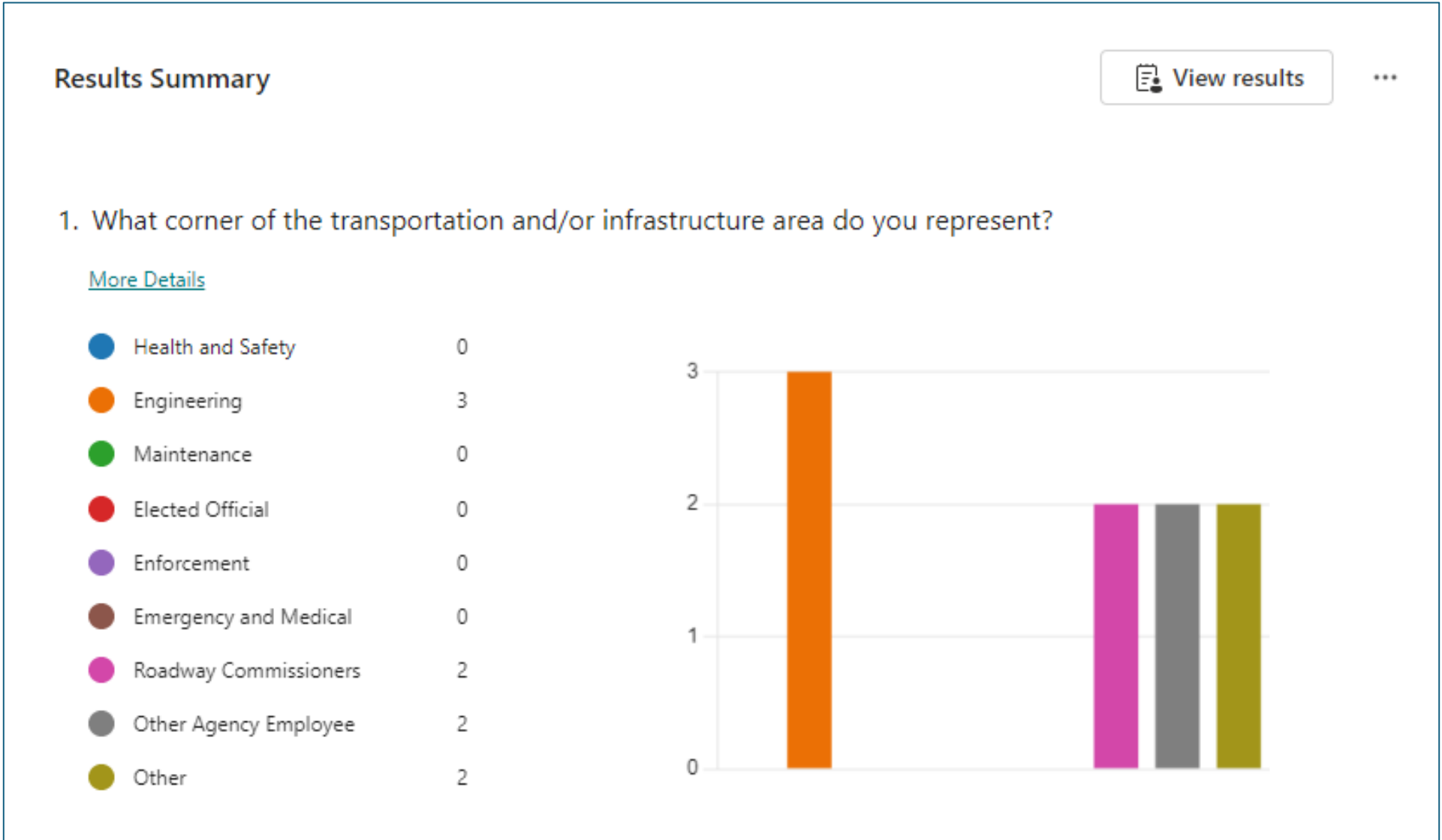
ATTENDEE POLL



**What corner of the
transportation and/or
infrastructure area do
you represent?**



POLL #1 RESULTS



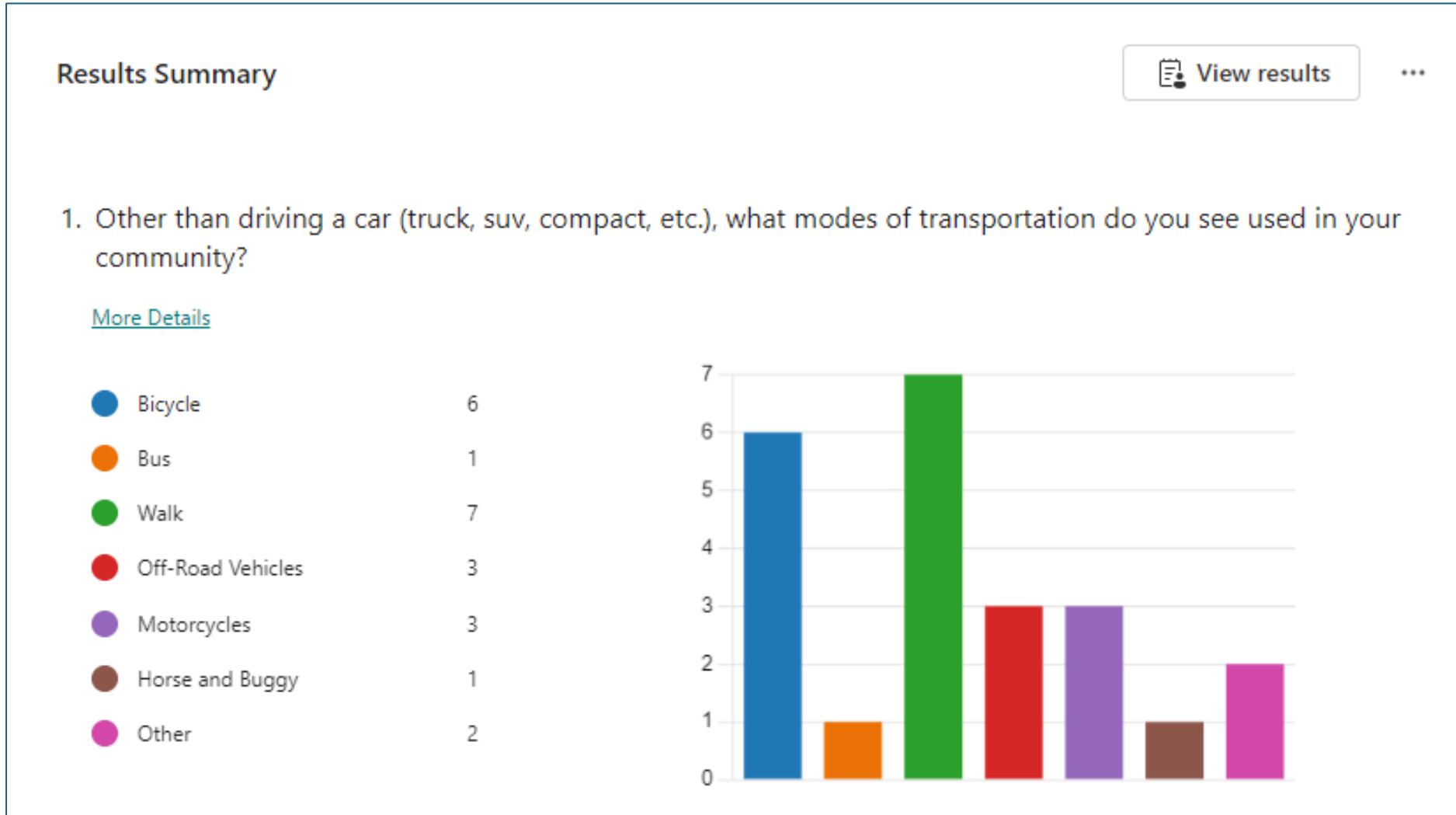
ATTENDEE POLL



Other than driving a car (truck, suv, compact, etc.), what modes of transportation do you see used in your community?



POLL #2 RESULTS



ATTENDEE POLL




**What behavioral
issues do you see as a
motorist and/or
pedestrian?**



POLL #3 RESULTS

Results Summary

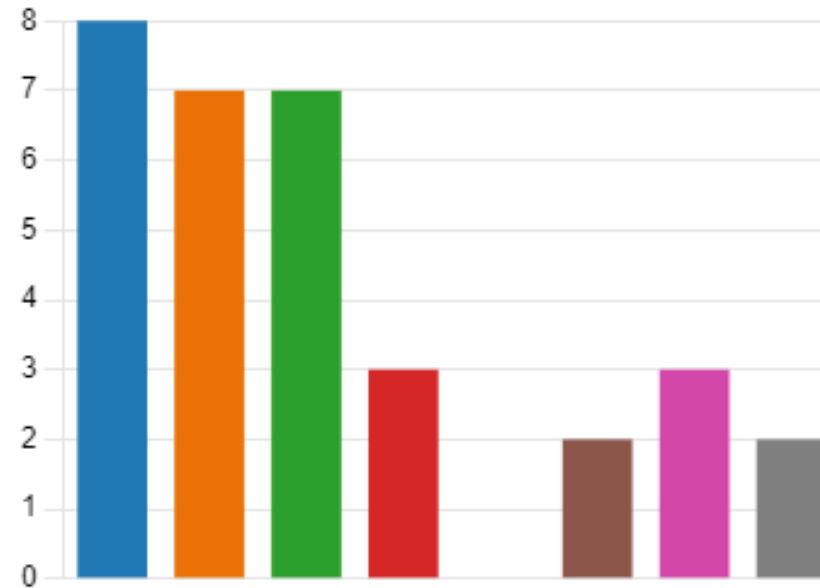
 View results



1. What behavioral issues do you see as a motorist and/or pedestrian?

[More Details](#)

 Phone Usage	8
 Speeding	7
 Not Adhering to Signage	7
 Impaired Driver or Pedestrian	3
 Seatbelts Not Used	0
 Unlicensed Drivers	2
 Red Light Running	3
 Other	2



ATTENDEE POLL



**What equity concerns
do you have in your
region/community?**



POLL #4 RESULTS

Results Summary

 View results



1. What equity concerns do you have in your region and/or community?

[More Details](#)

 Elderly Population	10
 Race	4
 Disabilities	6
 Pedestrians and Bicyclists	9
 Low Income Population	5
 Other	1

