



Admonition Statement

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RESOLUTION 2022-6 SAFETY GOALS FOR THE BIRMINGHAM METROPOLITAN PLANNING AREA

WHEREAS, the Birmingham Metropolitan Planning Organization (MPO) is committed to an eventual goal of zero for both roadway fatalities and serious injuries in the Birmingham Metropolitan Planning Area (MPA); and

WHEREAS, the MPO will endeavor to support the achievement of a Vision Zero goal by prioritizing safety policies, programs, and projects; and

WHEREAS, the MPO will strive to achieve a 20% reduction in fatalities and serious injuries in the Birmingham MPA by year 2033 with the performance measured as a 5-year rolling average compared to a baseline average from 2017-2021.

NOW THEREFORE, BE IT RESOLVED that the Birmingham MPO Policy Committee concurs with the recommended goals hereto.

Adopted this 10th day of August 2022.

Birmingham MPO Chair, Vice Chair, or Secretary

Charles Ball, Executive Director, RPCGB

Acronyms

ADECA Alabama Department of Economic and Community Affairs

ALDOT Alabama Department of Transportation

AoPP Areas of Persistent Poverty

AASHTO American Association of State Highway and Transportation Officials
ATRIP-II Alabama Transportation Rehabilitation and Improvement Program-II

ATI Alabama Transportation Institute

BJCTABirmingham Jefferson County Transit Authority

CAPS Center for Advanced Public Safety

CMAQ Congestion Mitigation and Air Quality Improvement Program

CO₂ Carbon Dioxide

CRP Carbon Reduction Program
DOT Department of Transportation
DUI Driving Under the Influence

EMA Emergency Management Agency
ETC Equitable Transportation Community
FHWA Federal Highway Administration

FTA Federal Transit Administration Capital Funds

HFST High Friction Surface Treatments **¡HICA!** Hispanic Interest Coalition of Alabama

HIN High Injury Network
HOA Heart of Alabama
HRRR High Risk Rural Roads

HSIP Highway Safety Improvement Program

INFRA Infrastructure for Rebuilidng America Discretionary Grant Program

KA Fatality and Incapacitating Injury

KSI Fatal and Serious Injury
LPA Local Public Agency
LRSI Local Road Safety Initiative
MPA Metropolitan Planning Area

MPO Metropolitan Planning Organization

NHS National Highway System

PCSi Proven Safety Countermeasure Initiative

PHB Pedestrian Hybrid Beacons

PROTECT Promoting Resilient Operations for Transformative, Efficient, and Cost Saving Transportation

RAISE Rebuilding American Infrastructure with Sustainability & Equity

RCP Reconnecting Communities Pilot Program

RPCGB Regional Planning Commission of Greater Birmingham RHCP Railway-Highway Crossings (Section 130) Program

RPO Regional Planning Organization
RRFB Rectangular Rapid Flashing Beacon

RTP Recreational Trails Program
RTP Regional Transportation Plan

SAP Safety Action Plan

SHSP Strategic Highway Safety Plan
SRTS Safe Routes to School Program
SS4A Safe Streets and Roads for All

SSA Safe System Approach

STBG Surface Transportation Block Grant
TAP Transportation Alternatives Program
TIP Transportation Improvement Program

UA The University of Alabama

UAB The University of Alabama at BirminghamUSDOT United States Department of Transportation

VRU Vulnerable Road User

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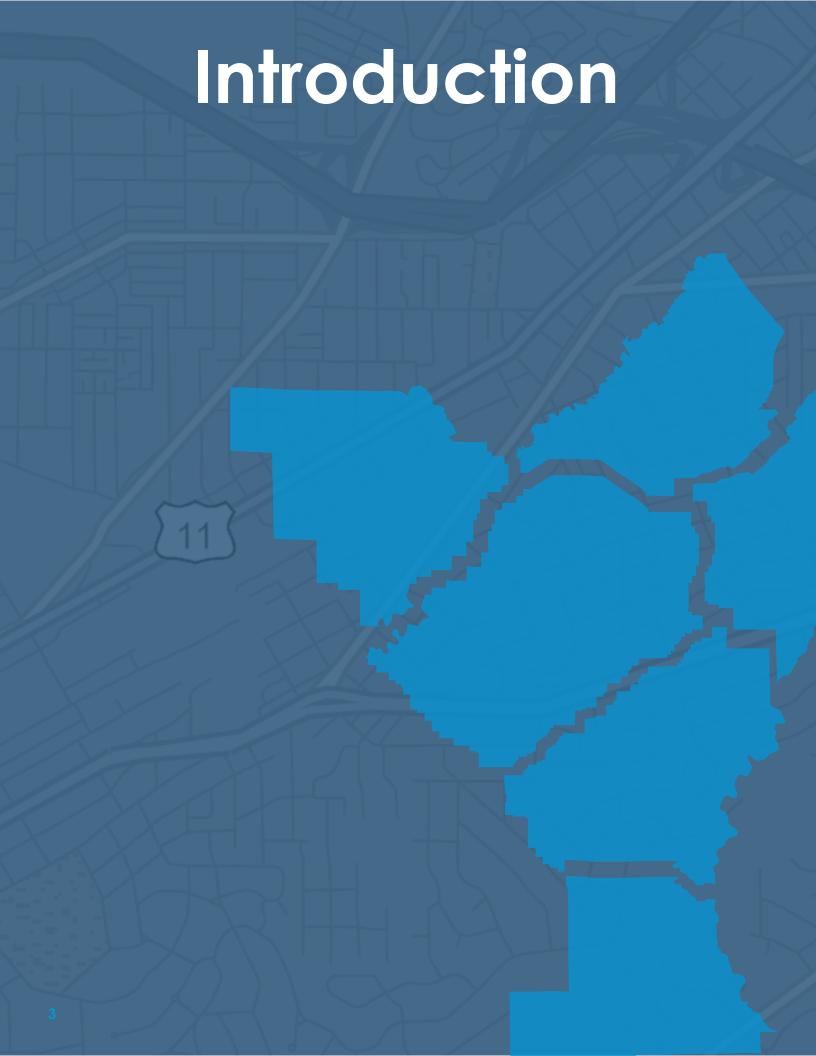
SS4A Task Force

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Jefferson County



Safety Action Plan Overview

The Regional Planning Commission of Greater Birmingham (RPCGB) has developed the Heart of Alabama (HOA) Safety Action Plan (SAP) to address the critical need to reduce fatal and serious injury crashes on the region's roadways. Covering six counties—Blount, Chilton, Jefferson, Shelby, St. Clair, and Walker—the RPCGB region is home to approximately 1.1 million residents.

The RPCGB leads innovative efforts in transportation planning, safety improvements, and community development for six counties and 84 communities in central Alabama. Through collaboration with local governments, citizens, non-profits, and the private sector, the RPCGB identifies cost-effective solutions to enhance regional growth and quality of life.

RPCGB Transportation and Safety Initiatives:

Transportation Planning: Coordinating the Transportation Improvement Program (TIP) to allocate federal and state funds for roadway and transit improvements in the metropolitan planning area (MPA), which includes all of Jefferson and Shelby counties and portion of Blount and St. Clair counties.

Safety Studies: Conducting safety analyses and developing corridor plans to address critical transportation challenges and improve roadway safety.

Sustainable Transit: Developing long-range urbanized area plans, greenway projects, and multimodal solutions to support safer, more efficient travel.

The development of an SAP expands on the current RPCGB efforts to prioritize and implement systemic safety countermeasures in the region. This proactive approach also supports improved project screening and selection, which positions the region for more effective and targeted safety improvements.

Ensuring safe, accessible, and efficient transportation across the region is central to the mission of the RPCGB. As geographic and transportation conditions vary across its rural, urban, and suburban jurisdictions, so do the safety needs of its residents.

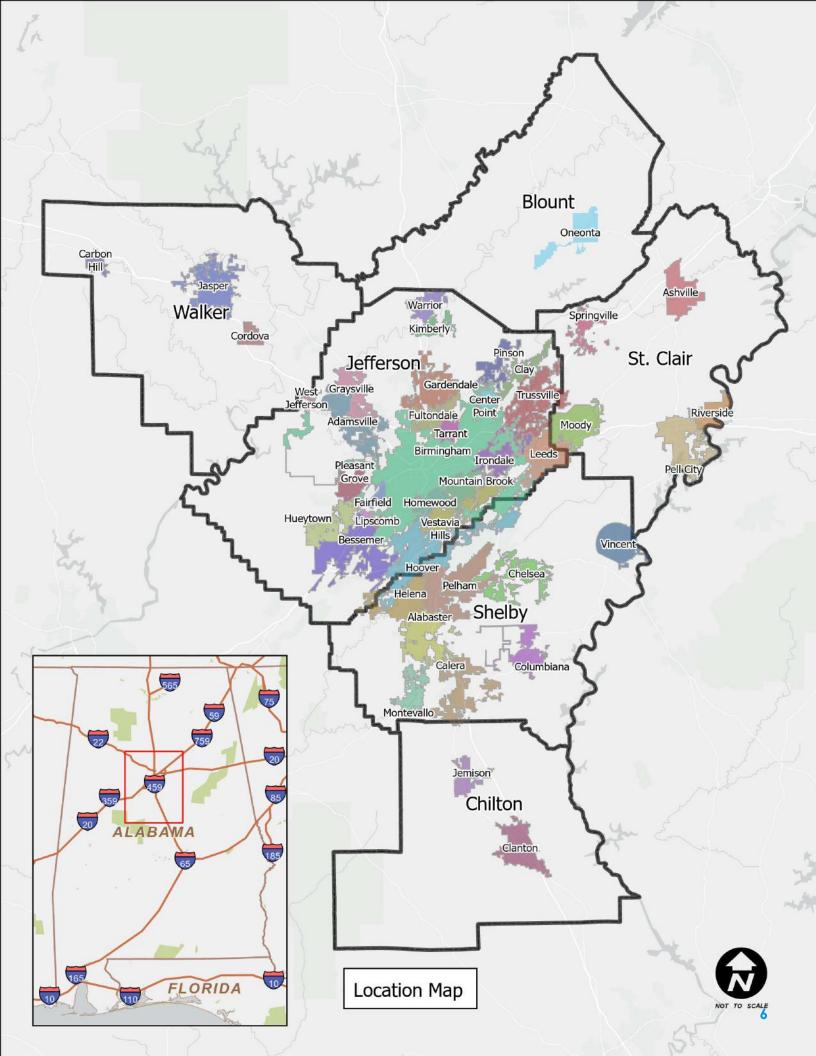
Between 2019 and 2023, 900 lives were lost, and 4,870 individuals sustained serious injuries in motor-vehicle-related crashes across the region. Recognizing that even one life lost is one too many, the RPCGB is committed to making significant improvements in roadway infrastructure and fostering a stronger culture of safety.

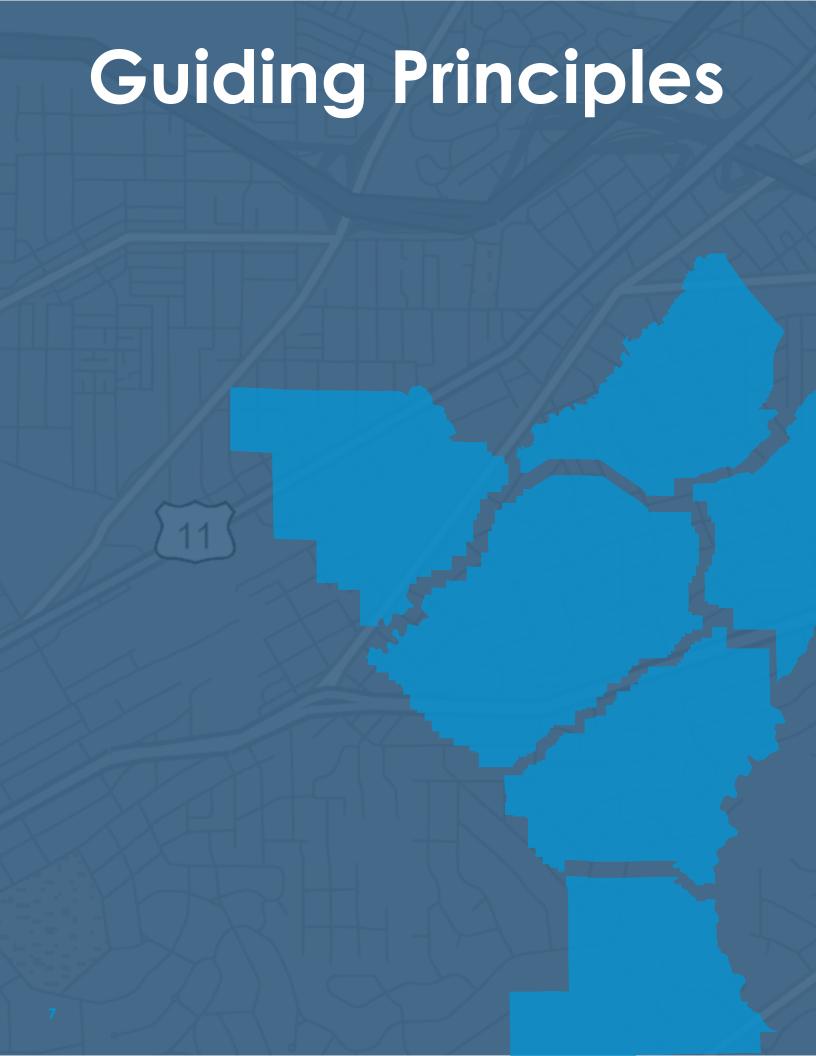
To guide these efforts, the RPCGB has established an ambitious goal: to achieve a 5% annual reduction in fatal and serious injuries, resulting in a 59% overall reduction by 2045 (based on 5-year average from 2019-2023). The HOA SAP outlines a comprehensive set of countermeasures and strategies to achieve this goal, which will create safer roads and communities for all.



Counties Cities Counties Cities Towns				
Blount	Oneonta	Allgood, Altoona, Blountsville, Cleveland, County Line, Garden City, Hayden, Highland Lake, Locust Fork, Nectar, Rosa, Snead, Susan Moore, and Trafford		
Chilton	Clanton and Jemison	Maplesville and Thorsby		
Jefferson	Adamsville, Bessemer, Birmingham, Brighton, Center Point, Clay, Fairfield, Fultondale, Gardendale, Graysville, Homewood, Hoover, Hueytown, Irondale, Kimberly, Leeds, Lipscomb, Mountain Brook, Pinson, Pleasant Grove, Tarrant, Trussville, Vestavia Hills, West Jefferson, Warrior	Brookside, Midfield, Morris, Sylvan Springs, and Trafford		
Shelby	Alabaster, Calera, Chelsea, Columbiana, Helena, Hoover, Montevallo, Pelham, and Vincent	Harpersville, Indian Springs Village, Westover, and Wilsonville		
St. Clair	Ashville, Moody, Pell City, Riverside, and Springville	Margaret, Odenville, Ragland, and Steele		
Walker	Jasper, Carbon Hill, and Cordova	Eldridge, Kansas, Nauvoo, Oakman, Parrish, Sipsey, and Sumiton		







The Safety Action Plan

The RPCGB developed this comprehensive SAP focused on reducing serious injuries and fatalities on our roadways. This plan focuses on vehicle crashes involving drivers, passengers, pedestrians, bicyclists, and other roadway users. The plan was developed through community and stakeholder collaboration to prioritize roadway and infrastructure improvements and to plan for future safety-focused initiatives.

The SAP integrates Vision Zero principles and the Safe System Approach (SSA). Vision Zero is a previously adopted national strategy aimed at eliminating serious injuries and fatalities on United States roadways. Vision Zero recognizes that people will make mistakes, and the transportation system and policies should be designed to ensure those mistakes do not lead to serious injuries or fatalities. Vision Zero is a multi-disciplinary approach that brings together not only engineers and planners, but also policymakers and other public stakeholders.

Although Vision Zero and SSA share common fundamental principles, the SSA delves into a sense of shared responsibility, redundancy in the system, and a proactive approach. While the SSA is a relatively new concept in the United States, the safety strategy has been implemented in other countries since the 1990's. The SSA aims to promote a culture of safety with the expectation that all users of the roadway system, regardless of mode, will be protected and that responsibility is shared with those who plan, build, maintain, and use the transportation system. This includes planners and engineers, as well as elected officials who oversee policy decisions that influence road safety.

TRADITIONAL APPROACH Prevent crashes Prevent death and serious injuries Improve human behavior Design for human mistakes/limitations Control speeding Reduce system kinetic energy Individuals are responsible Share responsibility React based on crash history Proactively identify and address risks

Six Principles of the SSA:

1. Deaths and serious injuries are unacceptable.

While no crashes are desirable, the SSA emphasizes a focus on crashes that result in death and serious injuries.

2. Humans make mistakes.

Road users will inevitably make mistakes, and those mistakes can lead to crashes. The expectation of the SSA is for the road system to be planned, designed, and operated to be forgiving of inevitable human mistakes, so that fatal and serious injury outcomes are unlikely to occur.

3. Humans are vulnerable.

Humans have limited ability to tolerate crash impacts before serious harm occurs. Although the exchange of kinetic energy in collisions among vehicles, objects, and road users has multiple determinants, applying the SSA involves managing and reducing that kinetic energy to avoid fatal and serious injury outcomes.

4. Responsibility is shared.

All stakeholders must work collaboratively to ensure that crashes don't lead to fatal or serious injuries.

5. Safety is proactive.

Transportation agencies should use proactive and data-driven tools to identify and mitigate underlying risks in the system, rather than waiting for crashes to occur and react afterwards.

6. Redundancy is crucial.

Reducing the risk of severe crash outcomes requires all parts of the system to be strengthened so that if one element fails, the other elements still protect road users.





The SSA considers five elements of a safe transportation system in an integrated and holistic approach.



1. Safe Roads:

Design roadway environments to mitigate human mistakes and account for injury tolerances, to encourage safer behaviors, and to facilitate safe travel by the most vulnerable users.

2. Safe Road Users:

Encourage safe, responsible driving and behavior by people who use our roads and create conditions that prioritize their ability to reach their destination unharmed.

3. Safe Speeds:

Promote safer speeds in all roadway environments through thoughtful, equitable, and context-appropriate roadway design, speed-limit setting, targeted education, outreach campaigns, and enforcement.

4. Safe Vehicles:

Expand the availability of vehicle systems and features that help to prevent crashes and minimize the impact of crashes on both occupants and non-occupants.

5. Post Crash Care:

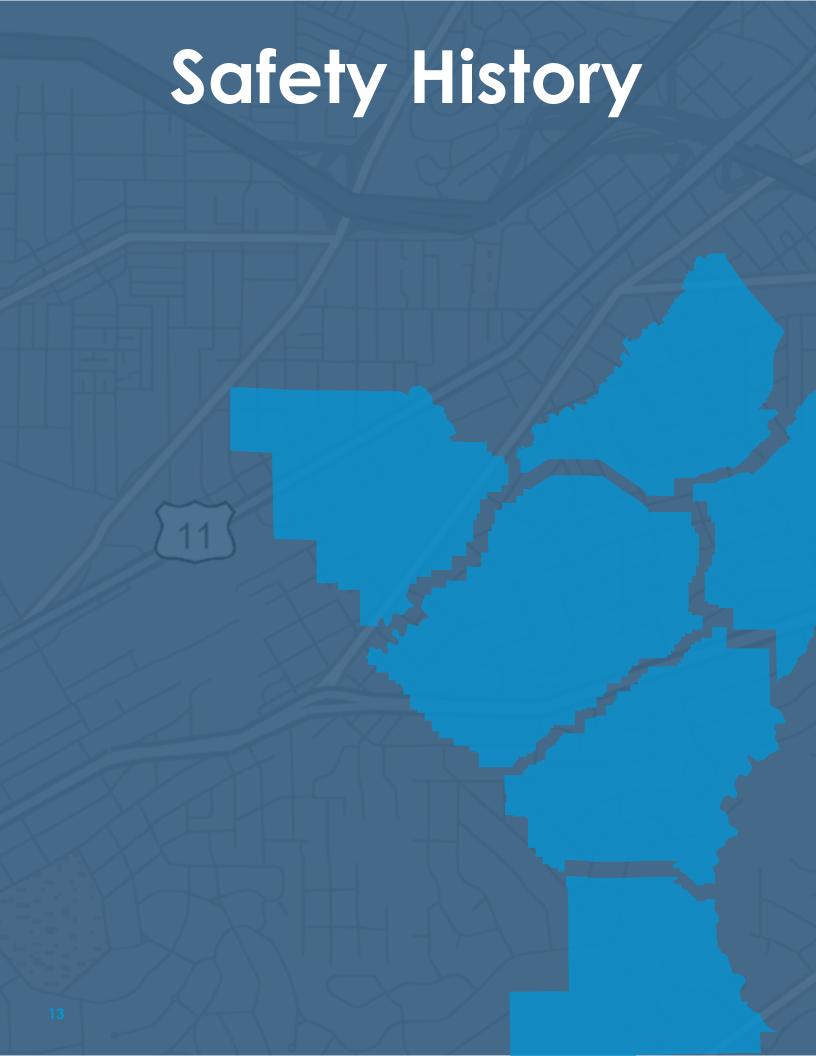
Enhance the survivability of crashes through expedient access to emergency medical care, while creating a safe working environment for vital first responders and preventing secondary crashes through robust traffic incident management practices.





While past safety efforts and strategies have aimed to eliminate crashes of all severities entirely to reach zero, the SSA prioritizes reducing fatalities and serious injuries resulting from these collisions. The road towards zero deaths and serious injuries should be focused on reducing the kinetic energy exchange to a tolerable limit for the human body. This important principle is at the core of successful implementation of the SSA as it relies on those responsible for designing and operating the road system. It is a given that human error is inevitable; it is essential to design and operate road infrastructure and vehicle technology to eliminate or significantly reduce the risk of death or serious injury. Reducing traffic deaths and serious injuries requires strengthening all five elements of the SSA.





Data Analysis

An in-depth safety review and data analysis was performed. The scope included all roadways within the six-county region of the RPCGB. The analysis covered crash data from 2019 to 2023. The analysis was completed by retrieving crash data from the Critical Analysis Reporting Environment (CARE) that is developed and maintained by the Center for Advanced Public Safety (CAPS) within The University of Alabama (UA).

Key Findings:

- The number of total crashes has gradually decreased, but the number of fatal and serious injury (KSI) crashes has held steady.
- Male drivers are 1.5 times more likely to be fatally or seriously injured.
- **54%** of all KSI crashes occurred on interstates or state roadways.
- **50%** of all local roadway/residential locale KSI crashes occurred in the City of Birmingham.
- 41% of KSI crashes occurred in dark conditions.
- The most common casual unit (CU) contributing circumstances for KSI crashes was Failure-to-Yield (9%) and Ran-off-the-Road (6%).
- The most common first harmful events for KSI crashes were collision with a vehicle in traffic (42%), and run-off-the-road or collision with fixed object (41%).
- Pedestrian and bicycle related crashes accounted for **9%** of the KSI crashes.
- **42%** of all pedestrian-involved crashes are KSI crashes.
- Single-vehicle crashes comprised 50% of KSI crashes.
- The most likely Manner of Crash where a driver or passenger is fatally injured is Single Vehicle, followed by Head-On, Rear-End, and Side Impact crashes.

High Injury Network

 A High Injury Network (HIN) analysis was conducted to identify intersections and roadway segments with the highest frequency of KSI crashes. The overall HIN accounts for only 5% of the region's centerline miles but represents 72% of the region's KSI crashes. A Vulnerable Road User (VRU) HIN was also created. The City of Birmingham had the highest concentration of crashes involving VRUs in the Region.



The final stage of developing the HIN involved assigning an Equivalent Property Damage Only (EPDO) score to each crash. This score is based on the collision's severity and is used to standardize the crash severity to a comparable level. The EPDO method assigns a value to each crash based on the KABCO injury severity scale and associated comprehensive crash cost. The crash cost is based on research conducted by FHWA, which develops national crash costs for use as default crash unit values. The purpose of the score is to prioritize projects based on the combination of crash frequency and severity.

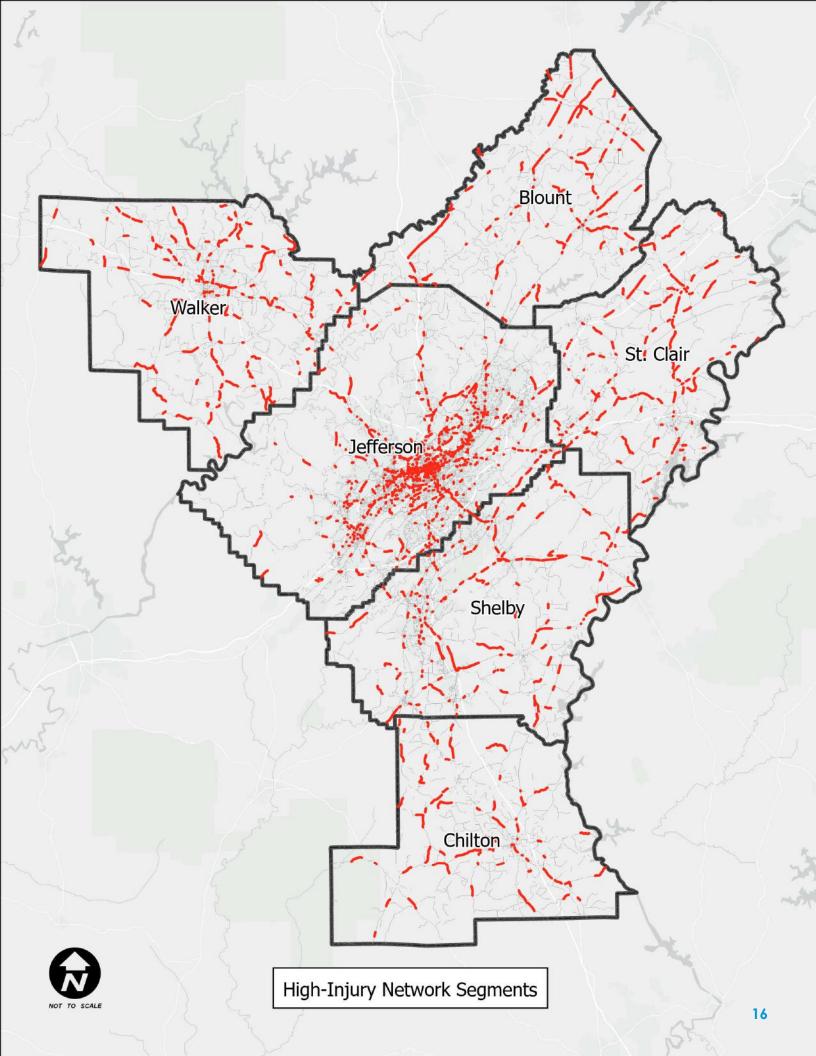
Using EPDO weighted values for crashes is a well-accepted procedure for developing HIN as outlined in the American Association of State Highway and Transportation Officials (AASHTO) Highway Safety Manual. EPDO values provide a standardized method to quantify and compare the severity of crashes by assigning weights to different crash severities based on their economic impact. This approach allows for a more comprehensive assessment of crash data, ensuring that locations with severe crashes are prioritized for safety improvements. By incorporating EPDO values, transportation agencies can effectively identify and address areas with frequent severe crashes, ultimately enhancing roadway safety and reducing the likelihood of severe injuries and fatalities.

The total cost for each crash severity is calculated by multiplying the number of crashes by the comprehensive cost. The weighted average cost, combining Fatal (K) and Suspected Serious Injury Crash (A), is then determined by dividing the total cost by the overall number of crashes. The Weighted Score is computed, assigning an equivalent value of 1 to the No Apparent Injury (O) crash severity. This score is established by dividing the Weighted Average Cost by the No Apparent Injury (O) Weighted Average Cost.

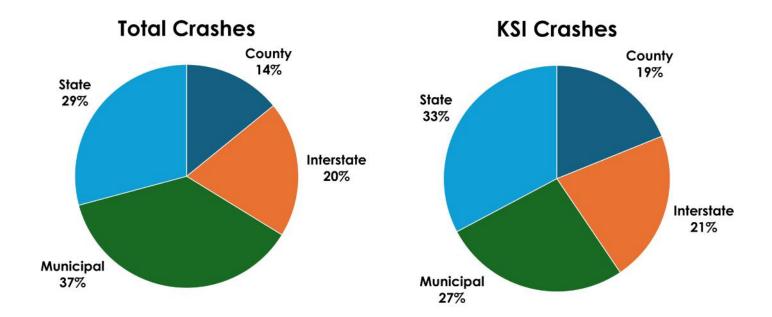
Integrating fatal and suspected serious injury crashes into a weighted score addresses the limitation of prioritizing solely based on fatal crashes. Relying only on fatal crash data might unintentionally undervalue the significance of serious injury crashes. Even though these crashes do not result in fatalities, they can have profound, life-altering consequences. Combining both types of crashes presents a more comprehensive narrative, aligning with the overarching goal of addressing and eliminating severe crash types.

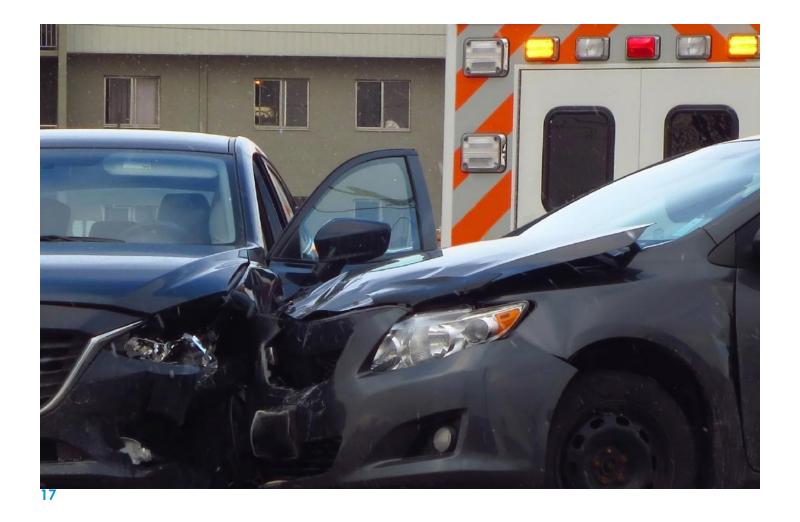
Each crash was assigned an EPDO-weighted score value, which was then linked to a specific roadway segment and intersection. This methodology allows for aggregating these scores at each segment and intersection, resulting in a comprehensive EPDO score. This process enabled a data-driven approach to analyze the road network for effective prioritization in safety improvement strategies across the study area. Interstate segments were excluded from this HIN analysis.

Total Cost, Weighted Average Cost, and Weighted Score Calculation:						
						Weighted Score
K	835	\$12,500,000	\$10,437,500,000	KA	\$3,381,732	676.3
А	3,471	\$1,188,200	\$4,124,242,200	NA.	φυ,υσ1,/ υZ	0/0.3
В	12,078	\$233,800	\$2,823,836,400	В	\$233,800	46.8
С	13,341	\$111,700	\$1,490,189,700	С	\$111,700	22.3
0	147,592	\$5,000	\$737,960,000	0	\$5,000	1.0
U	8,293	\$217,600	\$1,804,556,800	U	\$217,600	43.5

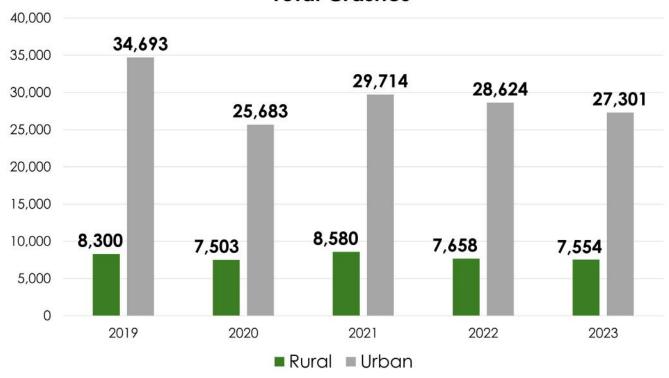


Crashes by Road Ownership

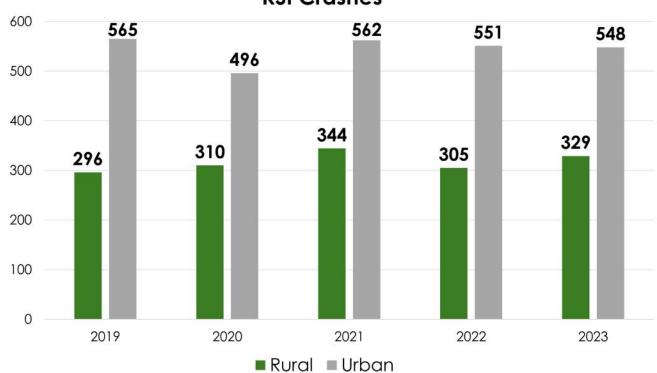














Negotiating Curves





3,635
Total Crashes



388Total KSI



- Over Speed Limit
- Driving Under the Influence (DUI)
- Driving Too Fast for Conditions

Safety Countermeasure*	Crash Reduction Factor**	Estimated Cost
Delineation	16 – 25%	\$
Cross-slope Correction	Varies	\$\$
Enhanced delineation and lighting	9 – 44%	\$

^{*}This list of countermeasures is not exhaustive; other or more suitable countermeasures may be required depending on specific site conditions and crash data.

**The Crash Reduction Factor is based on values obtained from the FHWA Crash Modification Factors Clearinghouse for various safety countermeasure applications.

Rural Trends



Left Turns





2,764
Total Crashes



57 Total KSI



- Failed to Yield Right-of-Way Making Left or U-Turn
- Failed to Yield Right-of-Way from Stop Sign
- Failed to Yield Right-of-Way from Traffic Signal

Safety Countermeasure*	Crash Reduction Factor**	Estimated Cost
Providing left turn or bypass lanes	5 – 35%	\$\$
Implementing corridor improvements consisting of indirect left-turn operations	35 – 59%	\$\$\$
Enhancement of traffic control devices	19 – 28%	\$

^{*}This list of countermeasures is not exhaustive; other or more suitable countermeasures may be required depending on specific site conditions and crash data.

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Head-On / Lane Departures





872Total Crashes



143 Total KSI



- Crossed Centerline
- Traveling Wrong Way
- DUI

Safety Countermeasure*	Crash Reduction Factor**	Estimated Cost
Centerline and edge line rumble strips	50 – 52%	\$
Providing right turn, left turn, or bypass lanes	20 – 31%	\$\$
Improving the roadside shoulder	20 – 25%	\$\$

^{*}This list of countermeasures is not exhaustive; other or more suitable countermeasures may be required depending on specific site conditions and crash data.

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Fixed Objects / Roadway Departures









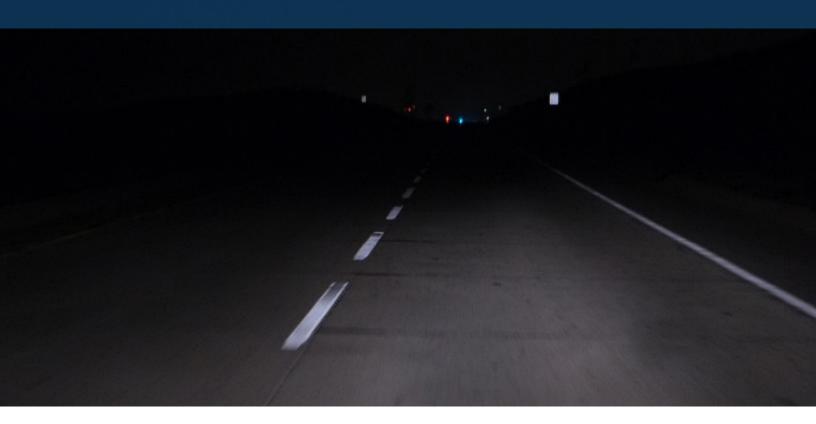
- Over Speed Limit
- DII
- Fatigue / Asleep

Safety Countermeasure*	Crash Reduction Factor**	Estimated Cost
Centerline and edge line rumble strips with edge line striping	8 – 39%	\$
Improving the roadside shoulder	20 – 25%	\$\$
Clear zone improvements	22 – 44%	\$\$\$

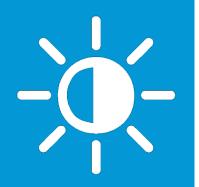
^{*}This list of countermeasures is not exhaustive; other or more suitable countermeasures may be required depending on specific site conditions and crash data.

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Rural Trends



Dark Hour





11,497 Total Crashes



Total KSI

101
Total VRU

- DUI
- Over Speed Limit
- Fatigue / Asleep

Safety Countermeasure*	Crash Reduction Factor**	Estimated Cost
For intersections, implementing signing, marking, and visibility improvements	11 – 44%	\$
Along segments, rumble strips, and enhanced roadway delineation	11 – 27%	\$
Provide intersection and roadway lighting	2 – 74%	\$\$\$

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Left Turns









- Failed to Yield Right-of-Way Making Left or U-Turn
- Failed to Yield Right-of-Way from Traffic Signal
- Failed to Yield Right-of-Way from Stop Sign

Safety Countermeasure*	Crash Reduction Factor**	Estimated Cost
Implementing the flashing yellow arrow operation	16 – 25%	\$ – \$\$
Implementing corridor improvements consisting of indirect left-turn operations	22 – 54%	\$\$\$
Road diets and road reconfiguration	19 – 49%	\$\$

^{*}This list of countermeasures is not exhaustive; other or more suitable countermeasures may be required depending on specific site conditions and crash data.
**The Crash Reduction Factor is based on values obtained from the FHWA Crash Modification Factors Clearinghouse for various safety countermeasure applications.



Negotiating Curves





2,475Total Crashes



144Total KSI



- Driving Too Fast for Conditions
- Aggressive Operation
- Crossed Centerline

Safety Countermeasure*	Crash Reduction Factor**	Estimated Cost
Delineation of the horizontal curve	8 – 30%	\$
Provide edge lines	11%	\$
Implement high friction surface treatments	Dry – 20% Wet – 39%	\$\$

^{*}This list of countermeasures is not exhaustive; other or more suitable countermeasures may be required depending on specific site conditions and crash data.

^{**}The Crash Reduction Factor is based on values obtained from the FHWA Crash Modification Factors Clearinghouse for various safety countermeasure applications.



Vulnerable Road Users





875Total Crashes



302



- Improper Crossing
- Unseen Object / Person / Vehicle
- Failed to Yield Right-of-Way (Various Forms)

Safety Countermeasure*	Crash Reduction Factor**	Estimated Cost
Crosswalk enhancements	7 – 57%	\$ - \$\$\$
Pedestrian indications and leading pedestrian intervals	19%	\$ - \$\$
Provide walkways, sidewalks, and paths for pedestrians and bicycle lanes for bicyclists	2 – 59%	\$ – \$\$\$

^{*}This list of countermeasures is not exhaustive; other or more suitable countermeasures may be required depending on specific site conditions and crash data.

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Side Impacts





25,822 Total Crashes



531Total KSI



- Ran Traffic Signal
- Failed to Yield Right-of-Way from Stop Sign
- Failed to Yield Right-of-Way Making Left or U-Turn

Safety Countermeasure*	Crash Reduction Factor**	Estimated Cost
For unsignalized intersections, the implementation of multiple low-cost countermeasures	10 – 27%	\$ - \$\$
For signalized intersections, the implementation of multiple low-cost countermeasures	15 – 50%	\$ - \$\$\$
Implementing corridor improvements consisting of indirect left-turn operations	22 – 54%	\$\$ - \$\$\$

^{*}This list of countermeasures is not exhaustive; other or more suitable countermeasures may be required depending on specific site conditions and crash data.
**The Crash Reduction Factor is based on values obtained from the FHWA Crash Modification Factors Clearinghouse for various safety countermeasure applications.



Older and Younger Drivers (15-25, 65+)





49,377 Total Crashes



834



- Misjudged Stopping Distance
- Followed Too Close
- Unseen Object / Person / Vehicle

Safety Countermeasure*	Crash Reduction Factor**	Estimated Cost
Application of enhanced signing and road markings	7 – 28%	\$ - \$\$
Addition of turn lanes and the reduction of intersection complexity	20 – 73%	\$\$ - \$\$\$
Enhanced roadway delineation and lighting	13 – 38%	\$\$ - \$\$\$

^{*}This list of countermeasures is not exhaustive; other or more suitable countermeasures may be required depending on specific site conditions and crash data.

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Public Engagement

A public involvement plan was developed and included three goals:



Create a consistent message about the project



Inform, educate, and invite collaboration



Establish communication channels and followers for ongoing messaging and education

These goals were accomplished through the following tasks:

Branding

A project logo was developed. Brand standards were developed for print, social media, and the project webpage.

Social Media

A communications content calendar was developed and social media posts were created throughout the duration of the project. The posts highlighted the SS4A program and encouraged safe travel behaviors.

Project Webpage

A <u>project webpage</u> was created that provided details on the SS4A program, the SSA, HOA's crash statistics and trends, task force members, project timeline, and Safety Champions in the region through video interviews.

Safety Action Task Force

A task force was assembled that included a broad, multidisciplinary team. Three task force meetings were held throughout the project, and the members helped to review and provide comments on the SAP.

Outreach to Local Elected Officials

Individual meetings were held with some of the local elected officials, and presentations were made at group meetings such as MPO advisory committees and the Jefferson County Mayor's Association.

Broad Public Outreach

Engagement with the general public was conducted through social media, the project website, and the project survey. The survey was distributed through social media and postcards. Targeted ads were designed to ensure there was representation from the entire HOA region. 1,105 survey responses were received from 105 out of the 114 zip codes (92%) in the HOA region.

Outreach to Disadvantaged Communities

Outreach was performed in two neighborhoods in disadvantaged areas – Thomas and West End – to help increase survey engagement and to determine these neighborhoods' specific transportation safety concerns.

Safe Streets and Roads for All (SS4A) is a program that provides money to address transportation safety needs in our communities.

The Regional Planning Commission of Greater Birmingham (RPCGB) has received an SS4A grant to prepare a **Safety Action Plan** for the **Heart of Alabama** region (Blount, Chilton, Jefferson, Shelby, St. Clair, and Walker Counties).



Why is a Safety Action Plan needed?

From 2019-2023, **900 lives were lost**, and **4,870** individuals sustained serious injuries in transportation-related crashes in the Heart of Alabama region.

Do you live or work within the six-county (Blount, Chilton, Jefferson, Shelby, St. Clair, and Walker Counties) study area?

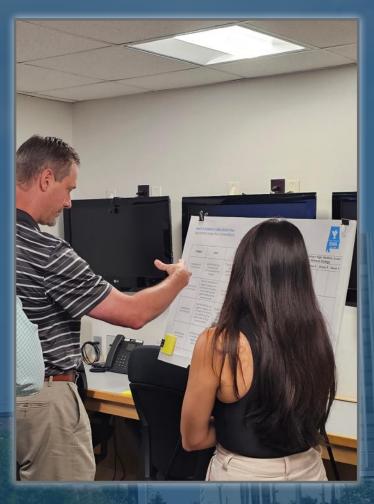
Scan to fill out our brief survey!





www.ss4aheartofalabama.com

The project team designed and printed bilingual postcards, available in both English and Spanish, for widespread distribution within the communities.







Regional Planning Commissio...

This month, we sat down with Yaquelin (Jacky) Herrera, a Safety & Quality Control Engineer at ALDOT, to learn more about her advocacy for transportation safety.

#SS4A #HeartofAlabama #SafetyChampion



What They Said

Thomas and West End neighborhood residents were asked what transportation safety improvement could be made that would bring the most positive change to their lives.

The items most often requested were:

- More enforcement
- Better maintenance
- Improved public transportation
- More sidewalks/bike lanes
- No large trucks allowed in their neighborhoods

Aggressive driving was the biggest transportationrelated issue those neighborhoods experienced. Exhibition driving is a known problem in Jefferson County and the City of Birmingham.





12,451

Facebook Reaches and Twitter Impressions



46

Task Force Members



1,105

Survey Responses



30

Engagement Events



105

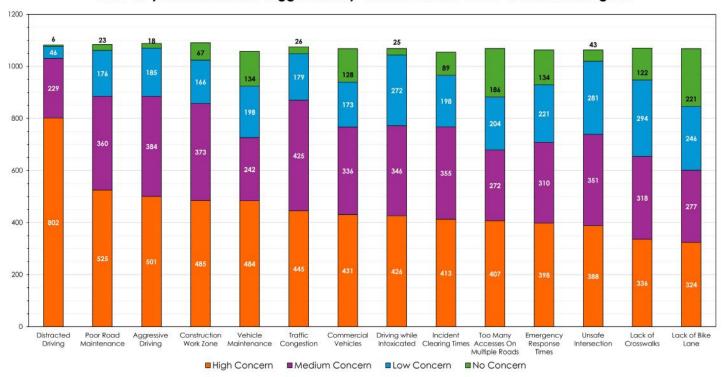
Zip Codes Represented in Survey



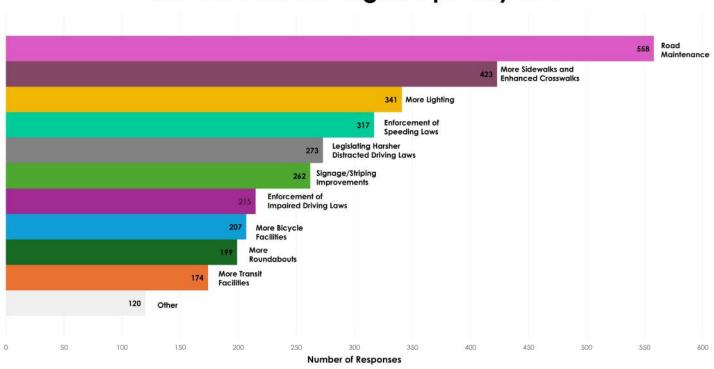
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Social Media Posts

What do you think are the biggest safety concerns in the Heart of Alabama region?



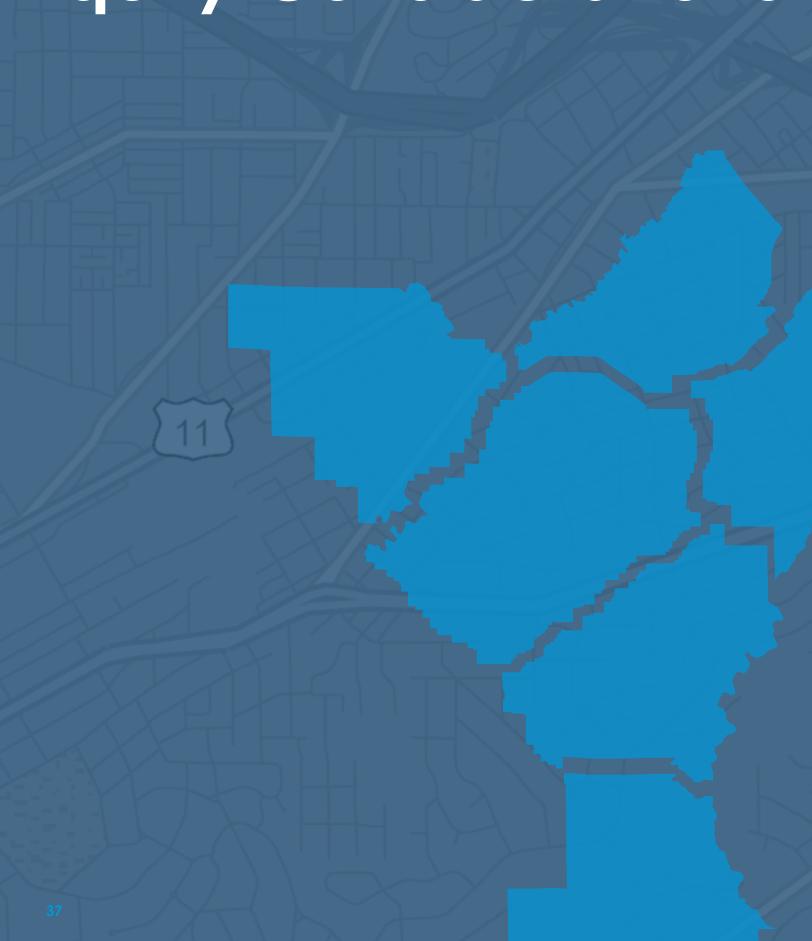
What should our highest priority be?



Community Outreach Events			
Date	Event	Location	Attendees
1/20/2023	Birmingham Safety Data Review	Birmingham DOT	City of Birmingham DOT Officials
1/24/2023	Hoover Safety Data Review	Hoover	City of Hoover Engineers
4/25/2023	St. Clair County Safety Data Review	St. Clair County	St. Clair County Engineers
6/14/2023	Blount County Safety Data Review	Blount County Public Works	Blount County Engineers
8/2/2023	Walker County Safety Data Review	Walker County Annex	Walker County Engineers
8/15/2023	Jefferson and Shelby County Safety Data Review	Shelby County	Jefferson and Shelby County Engineers and Planners
8/17/2023	Chilton County Safety Data Review	Chilton County	Chilton County Engineers
8/23/2023	Pelham Safety Data Review	Pelham	Pelham Engineers and Planners
8/31/2023	Safety Project Planning Training Session	RPCGB	Engineers, Planners, Public Works Officials
9/8/2023	Center Point Safety Data Review	Center Point	Center Point Public Officials
9/20/2023	Homewood Safety Data Review	Homewood	Homewood Engineers and Officials
9/22/2023	Vestavia Hills Safety Data Review	Vestavia Hills	Vestavia Hills Engineers
10/25/2023	MPO Technical Committee Meeting	RPCGB	Committee Members
10/26/2023	MPO Advisory Committee Meeting	RPCGB	Committee Members
11/3/2023	Mountain Brook Safety Data Review	Mountain Brook City Hall	Mountain Brook Public Officials
1/23/2024	Task Force Meeting #1	RPCGB	Task Force Members
2/26/2024	Subcommittee on Equity and Engagement	Virtual	Subcommittee members
5/1/ 2024 – 5/31/2024	Thomas Neighborhood Outreach	Thomas Churches and Neighborhood	Public
5/2/2024	RPCGB Annual Meeting - Project Update	Vulcan Park and Museum, Birmingham	MPO and Regional Planning Organization (RPO) Members
5/21/2024	Shelby County Legislative Wrap Up Reception	Shelby County	Public Officials and Chamber of Commerce Members
6/4/2024	Task Force Meeting #2	Virtual	Task Force Members
8/1/2024 – 9/15/2024	West End Neighborhood Outreach	West End Churches and Neighborhood	Public
8/7/2024	City of Argo Safety Data Review	Argo City Hall	Argo Public Officials
8/24/2024	City of Gardendale Safety Data Review	Gardendale City Hall	Gardendale Public Officials
9/17/2024	Task Force Meeting #3	Jefferson County EMA	Task Force Members
9/18/2024	Jefferson County Mayor's Association Meeting	Trussville Event Space	Jefferson County Mayors and Public Works Officials
10/16/2024	SS4A Panel	ALDOT Safety Conference - Gulf Shores	ALDOT and consultants
10/23/2024	MPO Transportation Technical Committee Meeting	RPCGB/Virtual	Committee Members
10/24/2024	MPO Advisory Committee Meeting	RPCGB/Virtual	Committee Members
10/30/2024	MPO Policy Committee Meeting	RPCGB	Committee Members
Duration of project	Survey	Online	Public
Duration of project	Social Media Posts	Online	Public



Equity Considerations



Disadvantaged Communities

This plan was developed with a focus on equitable strategies to reduce the number of KSI crashes. Crash data involving VRUs and vulnerable communities were examined closely. A VRU is a nonmotorist (typically a pedestrian, bicyclist, or person on a personal conveyance).

Disadvantaged census tracts were determined by using the United States Department of Transportation's (USDOT) Equitable Transportation Community (ETC) Explorer. This is an interactive web application that explores the cumulative burden disadvantaged communities experience resulting from underinvestment in transportation in the areas of Transportation Insecurity, Climate and Disaster Risk Burden, Environmental Burden, Health Vulnerability, and Social Vulnerability. It is designed to be effective in helping increase the understanding of how communities are experiencing transportation disadvantage at the local level. Further information on the ETC Explorer and its methodology can be found on the <u>USDOT website</u>.



Disadvantaged Census Tracts					
County	Centerline Miles in Disadvantaged Census Tracts	Centerline Miles in Non- Disadvantaged Census Tracts	% of Centerline Miles in Disadvantaged Census Tracts	% of Total Crashes in Disadvantaged Census Tracts	% of KSI Crashes in Disadvantaged Census Tracts
Blount	1,571	110	93%	97%	96%
Chilton	1,408	121	92%	96%	96%
Jefferson	2,414	3,947	38%	55%	60%
Shelby	764	1,738	31%	26%	40%
St. Clair	1,126	649	63%	62%	71%
Walker	1,732	322	84%	93%	87%

Vulnerable Communities Takeaways:

- KSI crashes were overrepresented in disadvantaged census tracts in the region.
- In all six counties, the percentage of KSI crashes in disadvantaged census tracts was higher than the percentage of centerline miles in disadvantaged census tracts.
- Based on the ETC Explorer, all of the counties except Jefferson County had their transportation insecurity component in the disadvantaged range.
- Chilton and Walker Counties' social vulnerability components were classified in the disadvantaged range.
- Walker County's health vulnerability component was in the disadvantaged range.
- Although Jefferson County includes census tracts considered disadvantaged, none of its five ETC components fell within the disadvantaged range. However, Jefferson County had the highest environmental burden component of the six counties.





47% of census tracts are considered disadvantaged in the HOA region.



Vulnerable Road Users Takeaways:

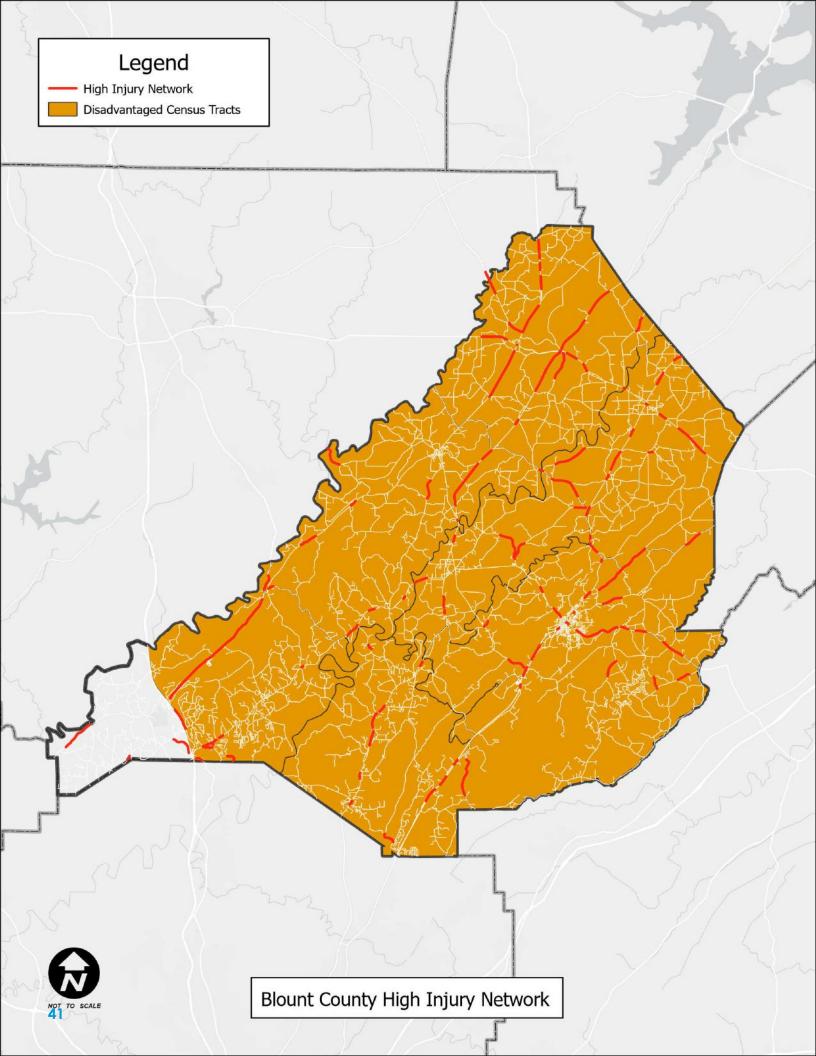
- Pedestrian-involved crashes represented less than 1% of all crashes, but 8% of all KSI crashes.
- 10% of Urban KSI Crashes involved pedestrians.
- Bicyclist-involved crashes represented less than 0.1% of all crashes, but 1% of all KSI crashes.
- The most common actions by nonmotorists were improper crossing, inroadway, not visible, and failure to yield right-of-way.
- Intersection-related pedestrian and bicycle crashes were overrepresented in urban areas.

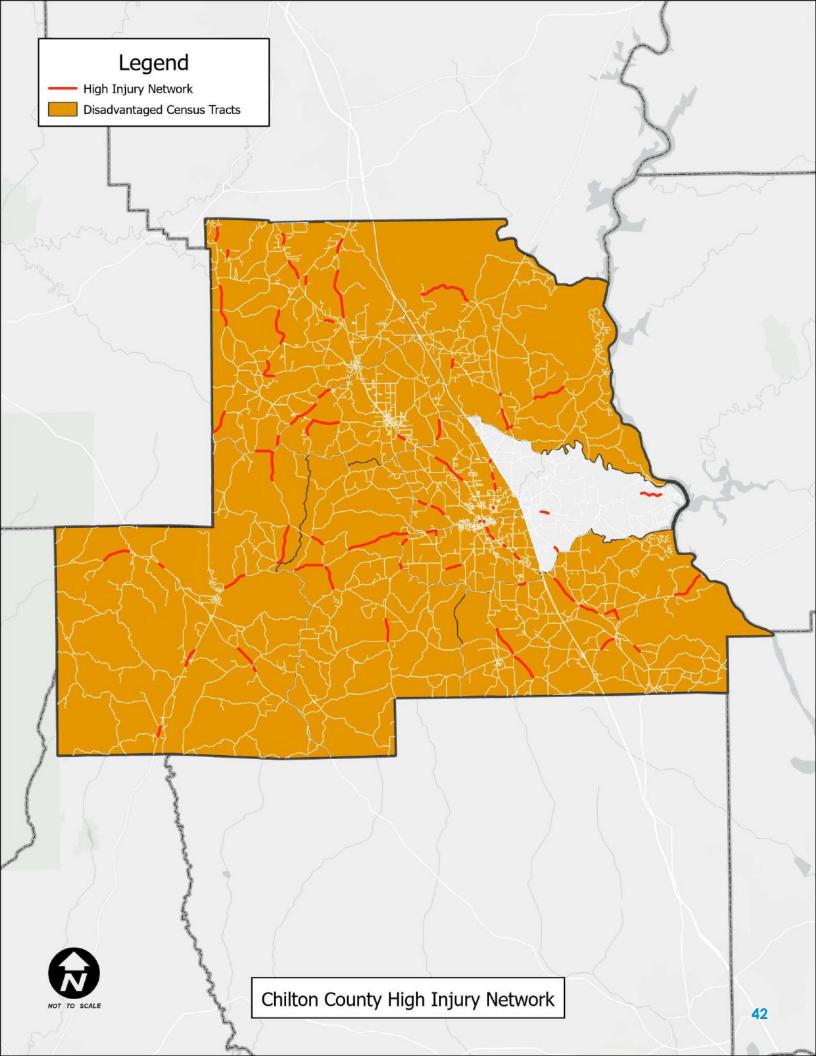


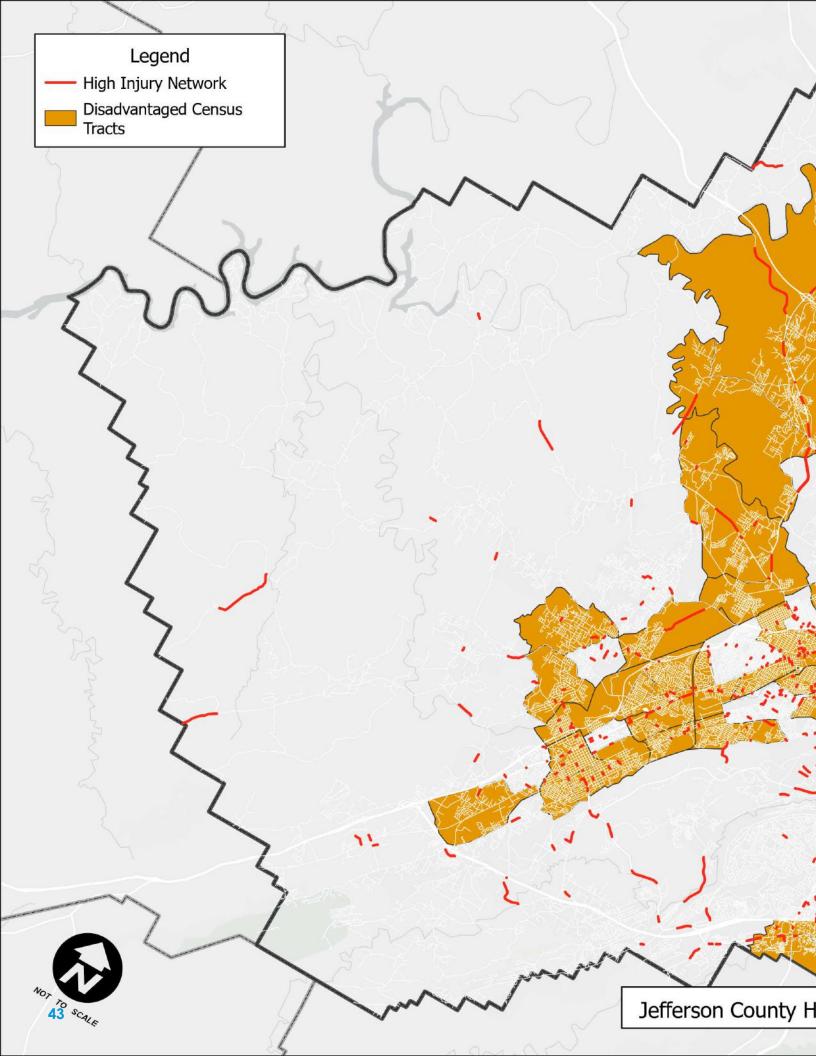


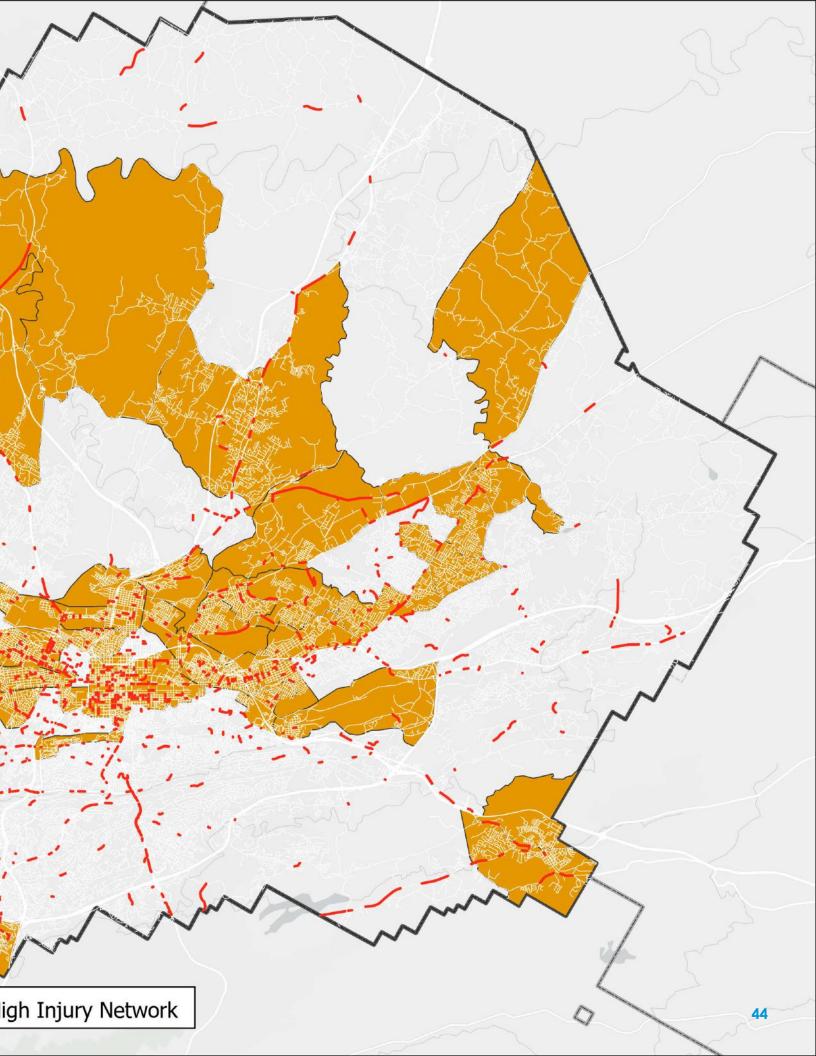
42% of all pedestrian-involved crashes result in fatalities or serious injuries to the pedestrian.

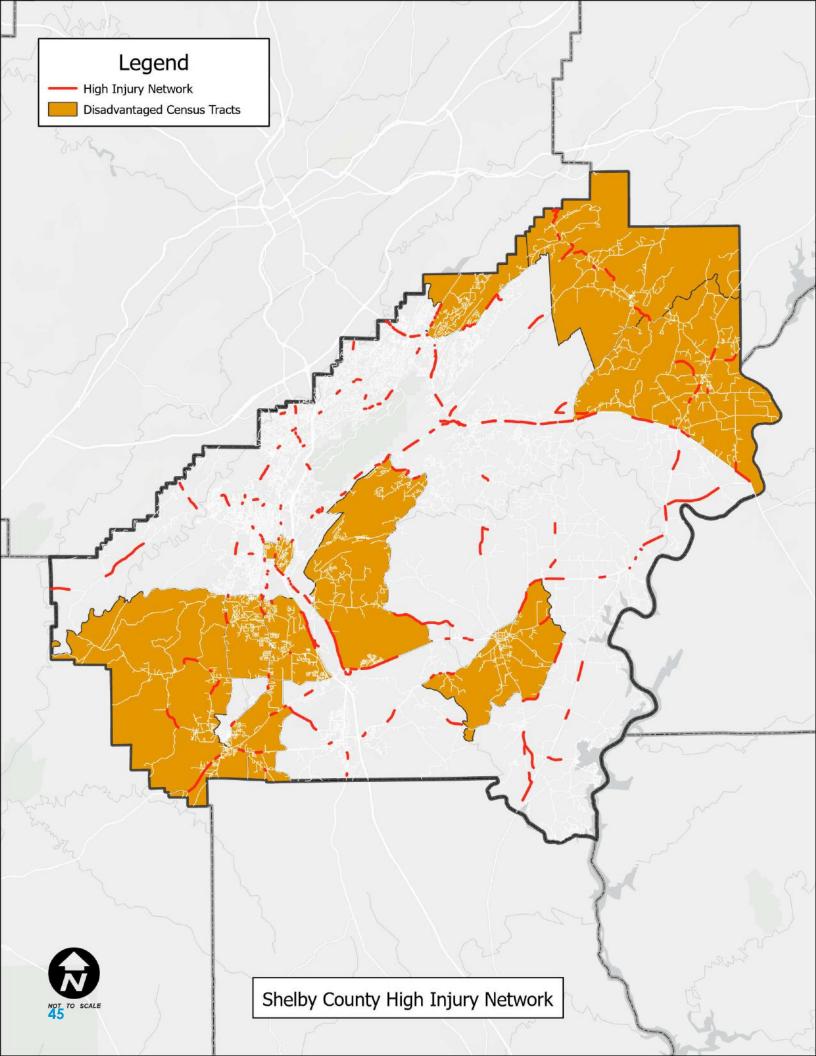


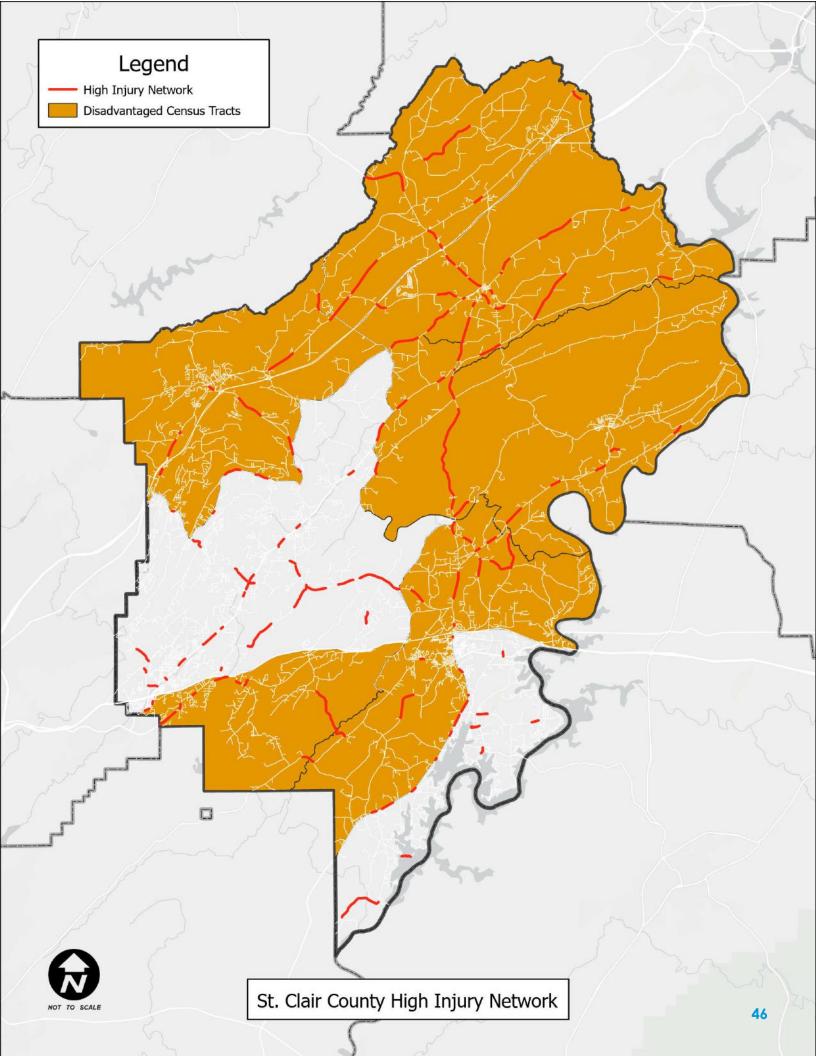


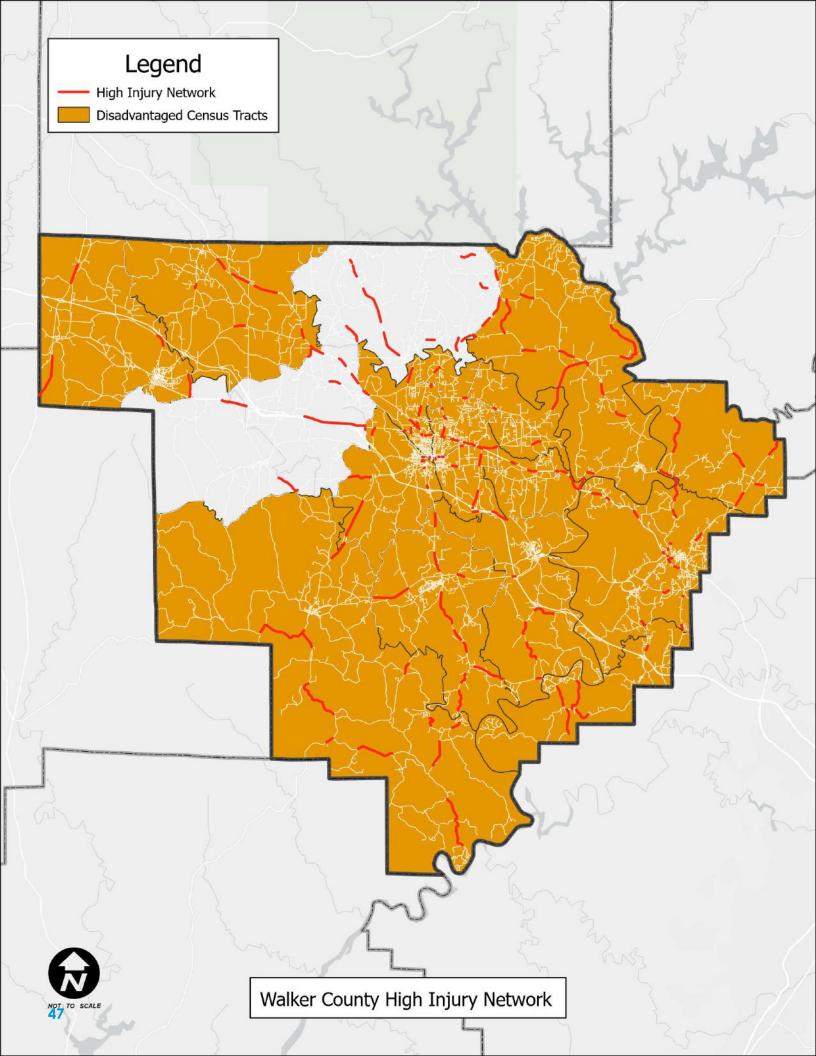




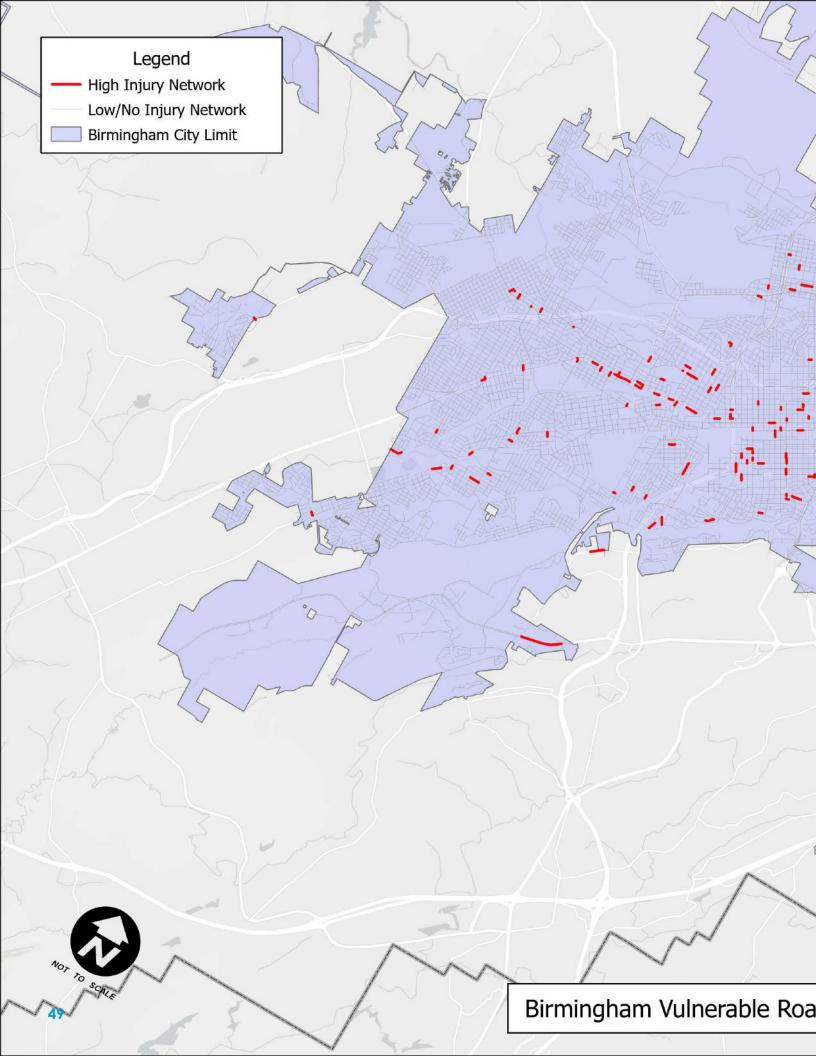


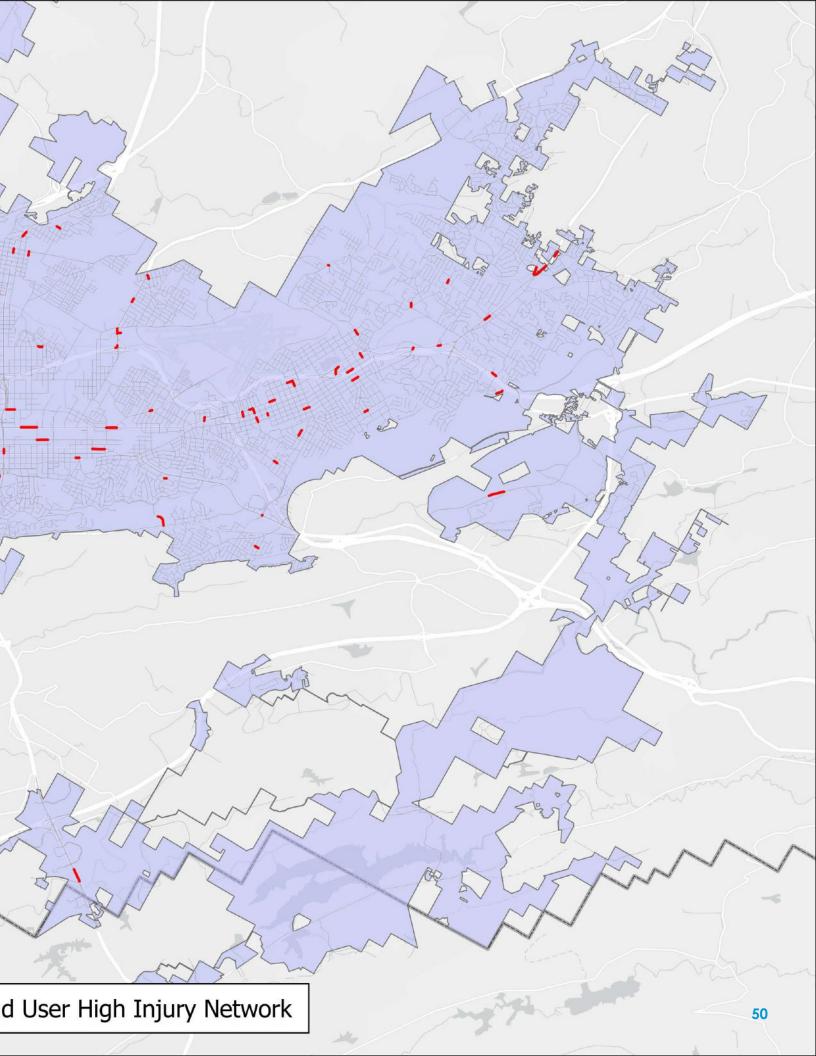


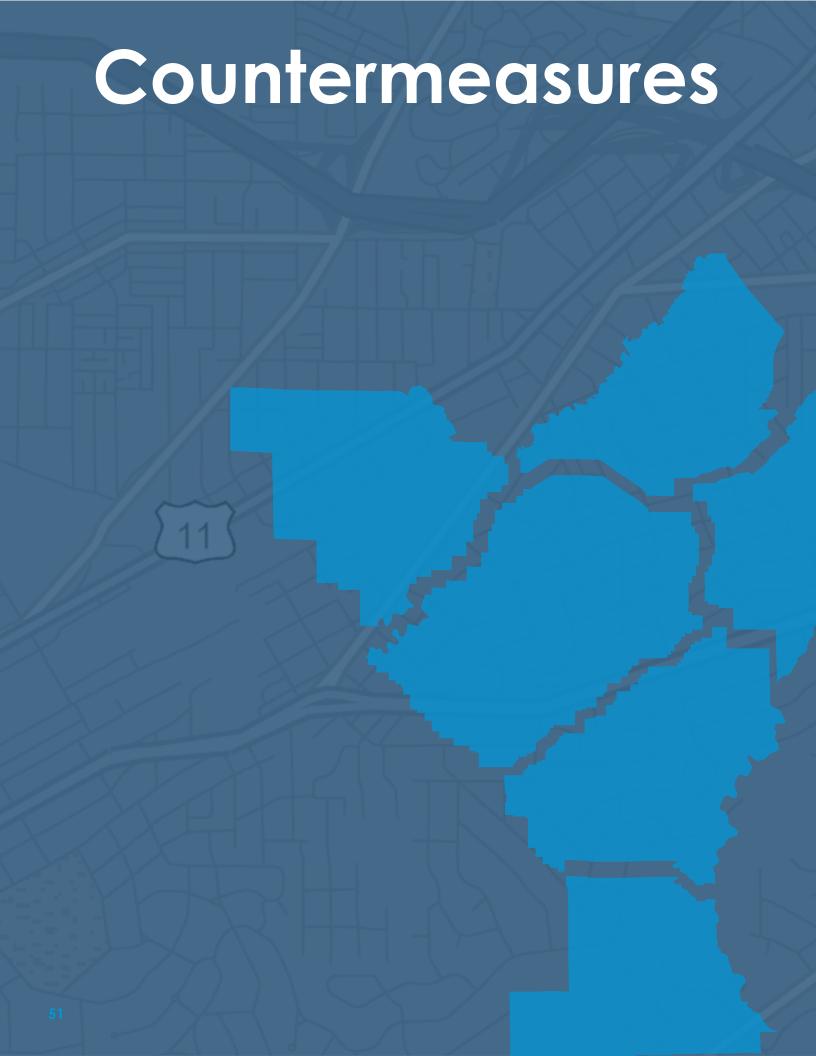












Countermeasures

Infrastructure countermeasures for the HOA Region were selected based on the SSA, the region's crash trends, community feedback, task force recommendations, and the Federal Highway Administration's (FHWA) Proven Safety Countermeasures initiative (PSCi). The PSCi is a toolbox of countermeasures and strategies that have proven to be effective in reducing roadway fatalities and serious injuries. Once implemented, these countermeasures can help to achieve the Safe Roads element of the SSA.

The selected urban and rural countermeasures are organized by the crash trend they are addressing and are summarized in the tables on the following pages. It is also noted if the countermeasure is a systemic or point application. Installing countermeasures systemically is a proactive approach to reducing fatal and serious injuries.



Selected Urban Countermeasures				
Crash Trend	Crash Data	Countermeasure	Cost per Location	Type of Application
Left Turn Maneuvers	321 KA Crashes 12% of Urban	Flashing yellow arrow signal heads	\$	Systemic
		Corridor access management	\$\$\$	Systemic
Maricovers		Roundabouts	\$\$\$	Point
	144 KA Crashes	Enhanced delineation for horizontal curves	\$	Systemic
Negotiating Curves		Wider edge lines	\$	Systemic
C017C3	5% of Urban	High friction surface treatments (HFST)	\$\$	Point
		Crosswalk visiblity enhancements	\$	Systemic
		Leading pedestrian interval	\$	Point
		Smart channel use at channelized right turns	\$\$	Point
Vulnerable	302 KA Crashes 12% of Urban	Rectangular rapid flashing beacons (RRFB)	\$	Point
Road Users		Pedestrian hybrid beacons (PHB)	\$\$	Point
		Road diets/road reconfiguration	\$\$	Point
		Walkways (sidewalks, trails)	\$\$	Point
		Bicycle lanes	\$\$	Point
	531 KA Crashes (20% of Urban)	Systemic application of multiple low- cost countermeasures at stop-controlled intersections	\$	Systemic
Side		Backplates with retroreflective borders	\$	Systemic
Impacts		Corridor access management	\$\$\$	Systemic
		Roundabouts	\$\$\$	Point
		Install lighting	\$\$	Point
	834 KA Crashes (31% of Urban)	Enhanced signage and road markings	\$	Systemic
		Intersection improvements	\$\$	Point
		Roadway lighting	\$\$	Point
Older and		Traffic signal timing	\$	Systemic
Younger Drivers		Roadway design	\$\$	Systemic
D117013	(31/3 31 313311)	Driver education and training	\$	Systemic
		Community transportation options	\$\$	Systemic
		Younger driver focused efforts	\$	Systemic

Key for Countermeasure Cost Amounts

- **\$\$\$** Requires extensive new facilities, staff, equipment, or publicity, or makes heavy demands on current resources.
- **\$\$** Requires some additional staff time, equipment, facilities, and/or publicity.
- **\$**-Can be implemented with current staff, perhaps with training; limited costs for equipment, facilities, and publicity.

Selected Rural Countermeasures				
Crash Trend	Crash Data	Countermeasure	Cost per Location	Type of Application
		Enhanced delineation for horizontal curves	\$	Systemic
	388 KA	Wider Edge Lines	\$	Systemic
		High friction surface treatments	\$\$	Point
Negotiating		Adjust cross-slope and superelevation	\$\$	Point
Curves	Crashes 24% of Rural	Rumble strips (centerline and edge line)	\$	Systemic
	21/0 01 110101	SafetyEdge	\$	Systemic
		Roadside design improvement at curves	\$\$	Point
		Remove obstacles near road	\$\$	Point
	57 KA	Flashing yellow arrow signal heads	\$	Systemic
Left Turn Maneuvers	Crashes	Corridor access management	\$\$\$	Systemic
Marieovers	4% of Rural	Roundabouts	\$\$\$	Point
		Rumble strips (centerline and edge line)	\$	Systemic
		Dedicated left- and right-turn lanes at intersections	\$\$	Point
Head-on/	143 KA	Improve shoulders	\$\$	Systemic
Lane	Crashes	Add passing or truck climbing lanes	\$\$\$	Point
Departures	9% of Rural	Use No Passing Zone Pennant and regulatory signs	\$	Systemic
		Add raised median or median barrier	\$\$	Point
		Construct a 2+1 roadway (passing lanes)	\$\$\$	Point
	871 KA Crashes 55% of Rural	Rumble strips (centerline and edge line)	\$	Systemic
		Wider Edge Lines	\$	Systemic
Fixed		Clear zone improvements	\$\$	Systemic
Object Crashes/		Improve shoulders	\$\$	Systemic
Roadway		Flatten slopes	\$\$	Systemic
Departures		Roadside design improvement at curves	\$\$	Point
		High friction surface treatments (HFST)	\$\$	Point
		SafetyEdge	\$	Systemic
	661 KA Crashes 42% of Rural	Oversized signs	\$	Systemic
		Overhead street names	\$	Systemic
		Advance street names	\$	Systemic
		Implement systemic signing and marking improvements at stop-controlled intersections	\$	Systemic
Dark Hours Related		Implement systemic signing and visibility improvements at signalized intersections	\$	Systemic
Keluleu		Enhanced delineation for horizontal curves	\$	Systemic
		Add roadway delineation along segments and ramps	\$	Systemic
		Rumble strips (centerline and edge line)	\$	Systemic
		Wider Edge Lines	\$	Systemic
		Add intersection or roadway lighting	\$\$	Point

Support Strategies

Support Strategies

Infrastructure countermeasures alone will not be sufficient to achieve the ambitious goals of this SAP. To be successful, the HOA region needs an improved culture where community members, leaders, policies, and decision-making all demonstrate a commitment to a safer transportation system. With the goal of a better safety culture in mind, an assessment of current policies and planning documents was conducted to benchmark the region's existing state of practice.

After benchmarking was performed, goals and strategies were developed with input from the Safety Action Task Force and stakeholder engagement. Goals were developed for four categories: community safety culture, planning and policy, leadership commitment, and data collection/analysis. The recommended strategies were prioritized as high or medium based on level of urgency. The tables on the

following pages summarize the recommended strategies and responsible party or program for each category. They also classifiy each strategy according to the SSA.

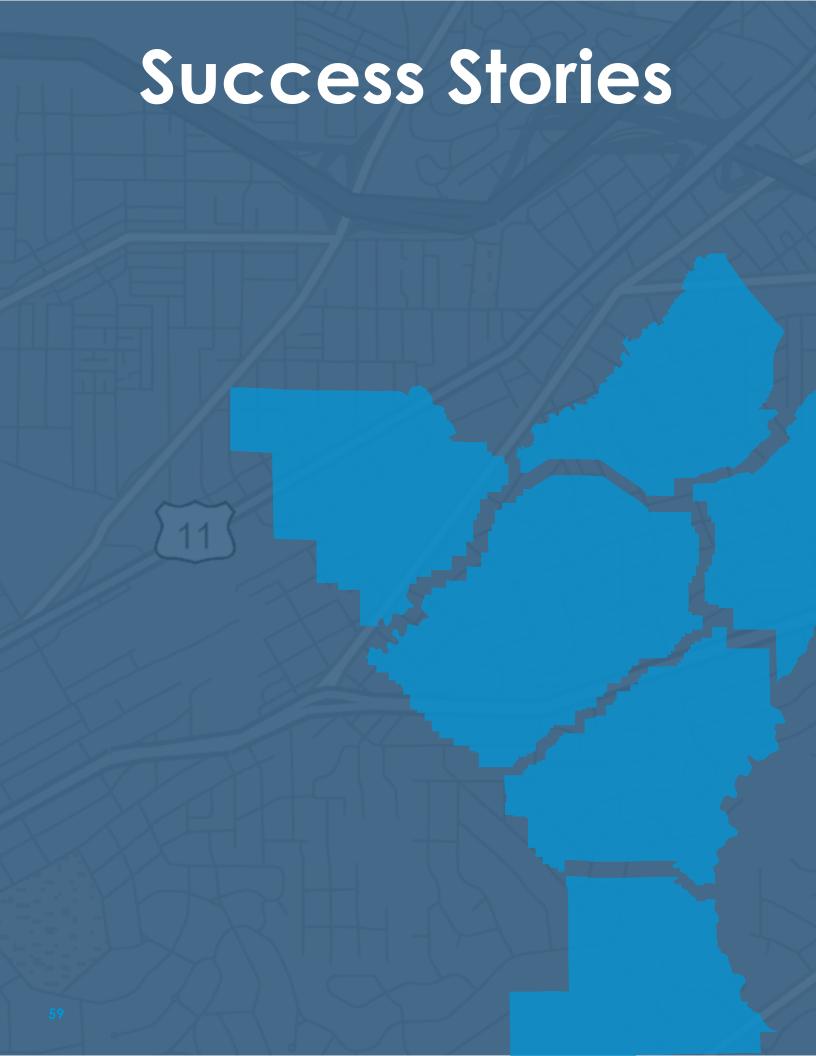


Background Planning & Policy Documents

Alabama Strategic Highway Safety Plan 4th Edition
Vulnerable Road User Safety Assessment
Birmingham 2050 Regional Transportation Plan
Active Transportation Plan for the Greater Birmingham Region
City of Birmingham Complete Streets Ordinance
City of Homewood Complete Streets Ordinance
Transportation Access to Substance Use Disorder Treatment in Walker County, AL
Areas of Persistent Poverty Transit Accessibility Project
Birmingham Community Framework Plans
City of Birmingham Comprehensive Plan
Alabama Speed Management Manual
Alabama DOT Local Public Agency (LPA) Road Design Policy

Community Safety Culture					
Goal	Strategy	Responsible Party or Program	Safe System Approach Element	Priority	
Improve the safety culture in the region	Drive a greater focus on transportation safety by incorporating requirements for safety consideration in the region's Transportation Improvement Program (TIP)	RPCGB	Safer Road User	High	
Improve driving skills of at-risk drivers	Provide safe driving education to young drivers and underserved communities through a high-fidelity driving simulator	UA/UAB Vehicle-Driver Simulation	Safer Road User	High	
		RPCGB			
Improve selection of safety countermeasures to produce safer responses among drivers	Evaluate driver reactions to various safety countermeasures and driving environments using a high-fidelity driving simulator	UA Vehicle-Driver Simulation RPCGB	Safer Road User Safer Roads	High	
	Planning &				
Goal		Responsible	Safe System		
Godi	Strategy	Party or Program	Approach Element	Priority	
Systematically plan and implement improvements to the region's high	Use the HIN map to prioritize corridors for detailed planning studies	Party or	Approach	Priority High	
Systematically plan and implement improvements to the region's high injury network Enhancing safety for VRUs in school zones across the	Use the HIN map to prioritize corridors for detailed planning	Party or Program RPCGB Local Agencies	Approach Element	Í	
Systematically plan and implement improvements to the region's high injury network Enhancing safety for VRUs in school	Use the HIN map to prioritize corridors for detailed planning studies Provide training on best practices for addressing safety issues in	Party or Program RPCGB Local Agencies ALDOT RPCGB	Approach Element Safer Roads Safer Speeds	High	
Systematically plan and implement improvements to the region's high injury network Enhancing safety for VRUs in school zones across the region. Encourage implementation of Complete Streets practices	Use the HIN map to prioritize corridors for detailed planning studies Provide training on best practices for addressing safety issues in school zones. Publish a model complete streets ordinance and encourage adoption by city and county	Party or Program RPCGB Local Agencies ALDOT RPCGB FHWA	Safer Speeds Safer Roads Safer Road User Safer Roads Safer Roads Safer Speeds	High High	

Leadership & Commitment					
Goal	Strategy	Responsible Party or Program	Safe System Approach Element	Priority	
Safety is regularly assessed and championed in the Region	Create a Safety Action Committee to regularly check performance metrics and communicate with safety	RPCGB UAB	Safer Roads Safer Road User	High	
Elected officials and agency leaders are champions for safety and achieving the goal of eliminating severe crashes	stakeholders Publish and distribute an annual Safety Spotlight newsletter to share lessons learned, performance metrics, and educational content	ATI RPCGB Safety Working Group	Safer Speeds Safer Roads Safer Road Users	High	
Elected officials and agency leaders are champions for safety and achieving the goal of eliminating severe crashes	Conduct a Regional Safety Summit every three years to report progress and celebrate successes	RPCGB UAB ATI	Safer Roads Safer Road Users	Medium	
Increase advocacy for safety-related legislation in Alabama	Research and develop policy statements on potential legislative actions that affect safety in the Birmingham Region	RPCGB Safety Working Group	Safer Roads Safer Road Users Safer Speeds Post-Crash Care Safer Vehicles	Medium	
	Data Collection &	Analysis			
Goal	Strategy	Responsible Party or Program	Safe System Approach Element	Priority	
Increase the use of safety data in decision-making at the local level	Sponsor training on CARE software at regular intervals	RPCGB CAPS	Safer Roads	High	
Use Data to Drive Decision-making	Update the HIN map every five years	RPCGB	Safer Roads Safer Road Users Safer Speeds	High	
Increase the use of safety data in decision-making at the local level	Provide training on road safety assessment and countermeasure selection	RPCGB FHWA ATI UAB	Safer Roads	Medium	



There are many success stories involving transportation safety projects in the HOA region:



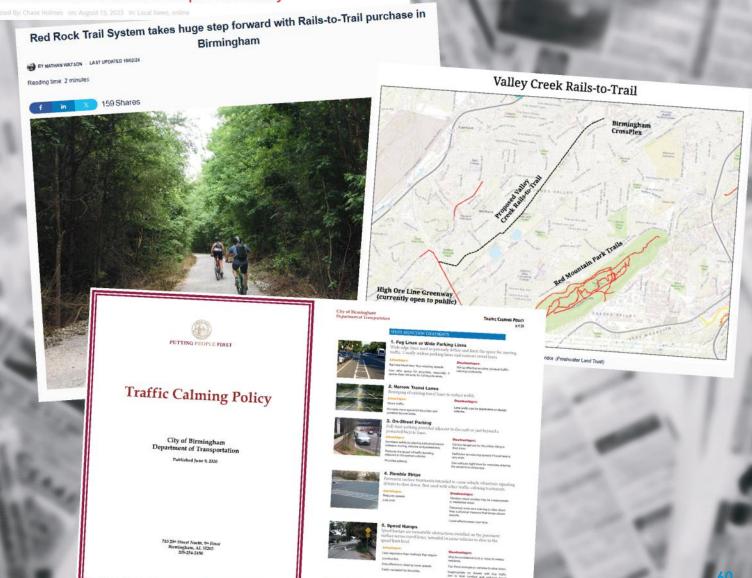
Photo of the new roundabout taken last Friday (Photo provided by Helen Hays)

NEWS

Birmingham gets \$14.5 million federal grant to turn 4th Ave. North into two-way street

Published: Mar. 11, 2024, 4:43 p.m.

New roundabout in Irondale to open Wednesday



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Performance Evaluation and Transparency

The RPCGB and its member governments are committed to making substantial progress toward a goal of zero traffic fatalities and serious injuries. The HOA SAP has established a goal of achieving a 5% per year reduction in fatal and serious injuries by the year 2045. If achieved, the total fatal and serious injuries in 2045 would equal 352, an almost 60% reduction from 2023 fatal and serious injuries and an almost 70% reduction from expected fatal and serious injuries if the status quo is not altered. Ongoing monitoring will be necessary to assess and support the effectiveness of the Action Plan.

Monitoring Progress

A Safety Action Committee will be established to evaluate and monitor the Action Plan. The Safety Action Committee will be responsible for monitoring performance metrics and reporting progress annually to the RPCGB's standing committees. The progress report will show performance metrics for each year since inception and will also track action items completed in the prior year.

Performance Metrics for the Heart of Alabama Region

Total Fatalities

Total Serious Injuries

Total Fatalities + Serious Injuries

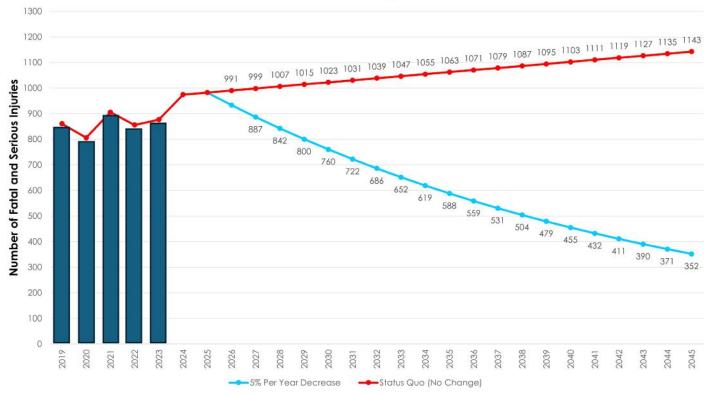
Non-motorized Fatalities + Serious Injuries

Total Fatalities + Serious Injuries in Transportation Disadvantaged Areas

Non-motorized Fatalities + Serious Injuries in Transportation Disadvantaged Areas

In addition to monitoring performance metrics on an annual basis, the Safety Action Committee will update the HIN mapping for the region every five years. The HIN maps will be provided to cities and counties and used to prioritize future transportation projects in the region.

Future Crash Projections



Transportation Funding Programs Multiple funding sources, listed below, are currently available for implementing transportation safety improvements.		
Safe Streets and Roads for All (SS4A)	 Authorized through 2026, it provides two grant categories suitable for implementing safety improvements: SS4A Demonstration Grants are for testing temporary safety improvement projects or strategies to determine future uses and benefits. SS4A Implementation Grants provide federal funds to execute projects and strategies outlined in a Safety Action Plan to address data-driven safety concerns. Eligible projects and strategies can be aimed at infrastructure, behavioral, or operational improvement actions. 	
Rebuilding American Infrastructure with Sustainability & Equity (RAISE) Discretionary Grant Program	RAISE provides funds for multimodal, multi-jurisdiction projects that have significant local or regional impact but are more difficult to support through traditional DOT programs.	
Transportation Alternatives Program (TAP)	TAP provides funding for programs and projects defined as transportation alternatives, including on- and off-road pedestrian and bicycle facilities, infrastructure projects for improving non-driver access to public transportation and enhanced mobility, community improvement activities, and environmental mitigation; recreational trail program projects; safe routes to school projects; and projects for planning, designing, or constructing boulevards and other roadways largely in the right-of-way of former Interstate System routes or other divided highways.	
Carbon Reduction Program (CRP)	Provides funds for projects designed to reduce transportation emissions, defined as carbon dioxide (CO ₂) emissions from on-road highway sources.	
Infrastructure for Rebuilding America Discretionary Grant Program (INFRA)	INFRA grants fund multimodal freight and highway projects of national or regional significance to improve the safety, efficiency, and reliability of the movement of freight and people in and across rural and urban areas.	
Reconnecting Communities Pilot Program (RCP)	Planning grants and capital construction grants, as well as technical assistance, to restore community connectivity through the removal, retrofit, mitigation, or replacement of eligible transportation infrastructure facilities.	
Federal Transit Administration Capital Funds (FTA)	Funds transit capital investments, including heavy rail, commuter rail, light rail, streetcars, and bus rapid transit.	
Areas of Persistent Poverty Program (AoPP)	Funds projects that provide access to transit in disadvantaged communities, including safety improvements.	
Congestion Mitigation and Air Quality Improvement Program (CMAQ)	Provides funds to States for transportation projects designed to reduce traffic congestion and improve air quality, particularly in areas of the country that do not attain national air quality standards.	
Highway Safety Improvement Program (HSIP)	HSIP is a core Federal-aid program to reduce traffic fatalities and serious injuries on all public roads, including non-State-owned roads and roads on tribal land. The HSIP requires a data-driven, strategic approach to improving highway safety on all public roads with a focus on performance.	

High Risk Rural Roads (HRRR)	The HRRR program focuses on improving safety on rural major or minor collectors and local roads with significant safety risks, as defined by each State's Strategic Highway Safety Plan. A Special Rule requires States to allocate funds to HRRRs if rural road fatality rates increase on these specific roadway facilitates.
Local Road Safety Initiative (LRSI)	The LRSI program provides funding to cities and counties for safety projects on locally owned public roads, targeting locations with significant safety risks in alignment with Alabama's Strategic Highway Safety Plan. Eligible projects focus on reducing fatal and serious injury lane departure and run-off-road crashes, prioritized by their potential to prevent crashes, mitigate crash occurrence, and minimize crash severity.
Railway-Highway Crossings (Section 130) Program (RHCP)	The Railway-Highway Crossings (Section 130) Program provides funds for the elimination of hazards at railway-highway crossings.
National Highway Performance Program (NHPP)	Provides support for the condition and performance of the National Highway System (NHS), for the construction of new facilities on the NHS, and to ensure that investments of Federal-aid funds in highway construction are directed to support progress toward the achievement of performance targets established in a state's asset management plan for the NHS.
Promoting Resilient Operations for Transformative, Efficient, and Cost Saving Transportation (PROTECT)	Used to help make surface transportation more resilient to natural hazards, including climate change, sea level rise, flooding, extreme weather events, and other natural disasters through support of planning activities, resilience improvements, community resilience and evacuation routes, and at-risk costal infrastructure.
Surface Transportation Block Grant Program (STBG)	Provides flexible funding that may be used by States and localities for projects to preserve and improve the conditions and performance on any Federal-aid highway, bridge and tunnel projects on any public road, pedestrian and bicycle infrastructure, and transit capital projects, including intercity bus terminals.
Safe Routes to School Program (SRTS)	SRTS provides funding for projects that improve safety for students going to school.
Recreational Trails Program (RTP)	A federal competitive grant program administered by the Alabama Department of Economic and Community Affairs (ADECA). Permissible uses include development of urban trail linkages, development of trailside and trailhead facilities, acquisition of easement for trail use, and construction of new trails.
Alabama Transportation Rehabilitation and Improvement Program-II (ATRIP-II)	Created in 2019 by the Rebuild Alabama Act this program is administered by ALDOT. Eligible projects include transportation projects that improve any state-maintained highway system. Projects with a primary focus on local roads are not eligible.
Rebuild Alabama Act / ALDOT Annual Grant Program	Provides the opportunity for cities and counties to partner with the State on larger projects where adequate local funding may not be available. There is not a specified or required match for local governments to take on, but any funds that local governments can leverage to team with ALDOT to fund a project could play a role in the decision-making process.





