

# The 2025–2029 Strategic Highway Safety Plan

Minnesota TZD Annual Conference

Rochester, MN November 15, 2023

11/22/2023

# Introductions



Hannah Johnson

Professional Transportation Planner





**Derek Leuer** 

State Traffic Safety Engineer





Abdullahi Abdulle

Transportation Equity Planning Coordinator



11/22/2023

Agenda

Time	Торіс
9:45 – 9:55	SHSP Overview (Hannah Johnson)
9:55 – 10:15	Statewide Crash Data (Derek Leuer)
10:15 – 10:30	Equity and Engagement (Abdullahi Abdulle)
10:30 - 10:40	Bringing it Together (Hannah Johnson)
10:40 - 11:00	Q&A

# But First...

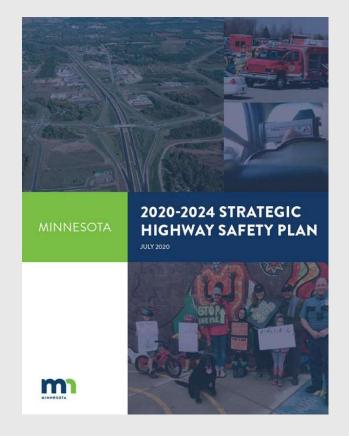






#### The Minnesota Strategic Highway Safety Plan (SHSP)

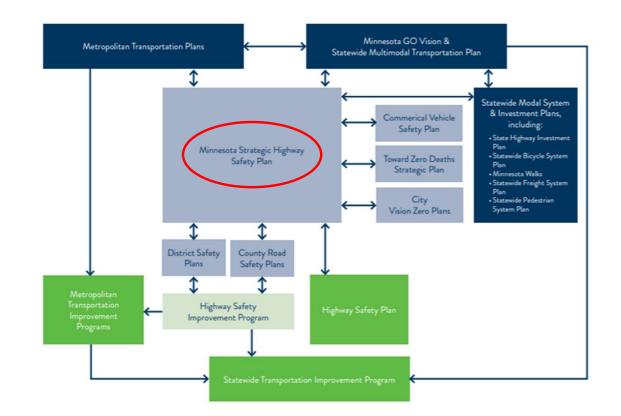
- Sets statewide direction to reduce traffic *fatalities and serious injuries* for all roadway users
- Recognizes that a single crash can have multiple contributing factors
- Promotes partnerships to positively impact safety
- Is informed by data *and* input from traffic safety professionals and advocates from many disciplines
- Is required by federal law and updated every 5 years



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## The Minnesota Strategic Highway Safety Plan (SHSP)

- Federally required but not just a checkbox for Minnesota
- Sets spending priorities for HSIP and HSP
- Relevant for all traffic safety partners: *state, county, local*
- Helps feed traffic safety elements of other plans



### What's inside the current SHSP?

- Crash Data and Trends
- Engagement Results
- Focus Areas
- Priorities
- Action-Oriented Strategies to Reduce Crashes

#### ACTION ORIENTED STRATEGIES: CORE FOCUS AREAS

TIMEFRAME	тастіс	
TIMEFRAME	IACIIC	
STRATEGY 1	INCREASE PUBLIC AWARENESS TO REDUCE IMPAIRED DRIVING	
ON-GOING	T1.1. Increase public awareness of the dangers of impaired driving through media campaigns targeting issues and high-risk driver groups. Use crash data analysis and market research to identify high-risk driver groups. Use full range of print, digital, broadcast and electronic material distribution methods for public awareness purposes.	
ON-GOING	T1.2 Tailor messaging to emphasize personal responsibility so all drivers know that even a little impairment can be dangerous.	
ON-GOING	T1.3 Include evidence-based information about the effects of drugs other than alcohol on driver impairment. Improve data collection and analysis for impaired driving offenses related to drugs other than alcohol.	
YEARS 1-2	T1.4 Develop a uniform public complaint reporting form for use in a "See Something, Say Something" initiative to identify suspected habitually impaired drivers and to identify alcohol retailers that serve underage persons.	
STRATEGY 2		
STRATEGT 2	SUPPORT COMMUNITY-BASED INITIATIVES TO KEEP IMPAIRED DRIVERS OFF THE ROAD	
ON-GOING	SUPPORT COMMUNITY-BASED INITIATIVES TO KEEP IMPAIRED DRIVERS OFF THE ROAD T2.1 Promote expansion and use of safe ride home options.	
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ON-GOING YEARS 1-2	T2.1 Promote expansion and use of safe ride home options. T2.2 Implement best practice models of privately-sponsored public transit safe ride programs.	,
ON-GOING YEARS 1-2 YEARS 1-2	T2.1 Promote expansion and use of safe ride home options.         T2.2 Implement best practice models of privately-sponsored public transit safe ride programs.         T2.3 Develop a template for community-based Place of Last Drink data collection and analysis.         T2.4 Identify and implement successful approaches to partnering with alcohol retailers and servers to prevent over-serving and to reduce alcohol sales to underage persons. Increase community-based efforts to prevent	,

# 2025-2029 SHSP: Timeline







# Minnesota Crash Data Overview

# **Crash Focus Areas**



#### Minnesota Statewide - Crash Focus Areas

2018 to 2022 (preliminary) fatal and serious injury crashes on trunk highways

		Minnesota Statewide				
		All R	oadways	Trunk	Highways	
	Total Severe Crashes	8,930	100%	2,647	30%	
	Intersection	4,385	49%	1,098	41%	
	Lane Departure	3,860	43%	1,176	44%	
as	Run-Off-Road	2,840	32%	816	31%	
Areas	Head-On	1,020	11%	360	14%	
Core	Impaired	2,469	28%	735	28%	
U	Speed	2,080	23%	689	26%	
	Unbelted	1,331	15%	524	20%	
	Inattentive	747	8%	252	10%	
	Older Driver	1,645	18%	602	23%	
	Motorcycle	1,511	17%	408	15%	
ы	Younger Driver	1,423	16%	356	13%	
Strategic	Non-motorist	1,380	15%	254	10%	
Strat	Pedestrian	1,045	12%	207	8%	
	Bicyclist	335	4%	47	2%	
	Commercial Vehicles	774	9%	428	16%	
	Work Zone	197	2%	99	4%	
D	Unlicensed	1,809	20%	528	20%	
ecte	Trains	20	0%	3	0%	
Connected	Deer/Animal	186	2%	52	2%	
0	Winter Weather	1,014	11%	385	15%	

#### Minnesota Statewide - Crash Focus Areas

2018 to 2022 (preliminary) fatal and serious injury crashes on all local roads

Í		Minnesota Statewide				
		All R	oadways	All Local Roads		
	Total Severe Crashes	8,930	100%	6,283	70%	
	Intersection	4,385	49%	3,287	52%	
	Lane Departure	3,860	43%	2,684	43%	
as	Run-Off-Road	2,840	32%	2,024	32%	
Are	Head-On	1,020	11%	660	11%	
Core Areas	Impaired	2,469	28%	1,734	28%	
U	Speed	2,080	23%	1,391	22%	
	Unbelted	1,331	15%	807	13%	
	Inattentive	747	8%	495	8%	
	Older Driver	1,645	18%	1,043	17%	
	Motorcycle	1,511	17%	1,103	18%	
U	Younger Driver	1,423	16%	1,067	17%	
Strategic	Non-motorist	1,380	15%	1,126	18%	
Stra	Pedestrian	1,045	12%	838	13%	
	Bicyclist	335	4%	288	5%	
	Commercial Vehicles	774	9%	346	6%	
	Work Zone	197	2%	98	2%	
p	Unlicensed	1,809	20%	1,281	20%	
ecte	Trains	20	0%	17	0%	
Connected	Deer/Animal	186	2%	134	2%	
0	Winter Weather	1,014	11%	629	10%	

# Statewide Crash Data – Summary

	Fatal and Serious Injury Crashes = 8,188 over 5 years (2014-2018)									
1	Intersections	47%	6	Motorcyclists	17%	12	Head-On	11%		
7	Single Vehicle Run off	31%	7	Unbelted Occupants	16%	13	Commercial Vehicles	9%		
2	the Road	3170	<b>′</b>	Younger Drivers	16%	10		970		
3	Impairment	25%	9	Unlicensed Drivers	14%	14	Bicyclists	4%		
4	Speed	20%	10	Inattention	13%	15	Work Zones	2%		
5	Older Drivers	18%	11	Pedestrians	12%	16	Trains	0.4%		

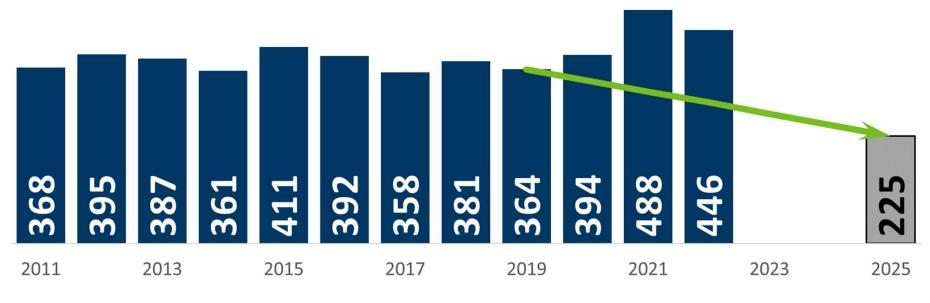
# Statewide Crash Data – Summary

Fai	Fatal and Serious Injury Crashes = <b>8,930</b> over 5 years (2018-2022 - Preliminary) – Up 9% over previous 5 years								
1	Intersections	49%	6	Older Drivers	18%	11	Head-On	11%	
2	Single Vehicle Run off the Road	32%	7	Motorcycles	17%	12	<b>Commercial Vehicles</b>	9%	
3	Impairment	28%	8	Younger Drivers	16%	13	Inattention	8%	
4	Speed	23%	9	Unbelted Occupants	15%	14	Bicyclists	4%	
5	Unlicensed Drivers	20%	10	Pedestrians	<b>12%</b>	15	Work Zones	2%	
						16	Trains	0.2%	

# Statewide Progress Toward SHSP Goal

2022 crashes preliminary as of 04/14/2023

## Minnesota Progression to 225 in 2025



# Greater Minnesota Progress Toward SHSP Goal

2022 crashes preliminary as of 04/14/2023



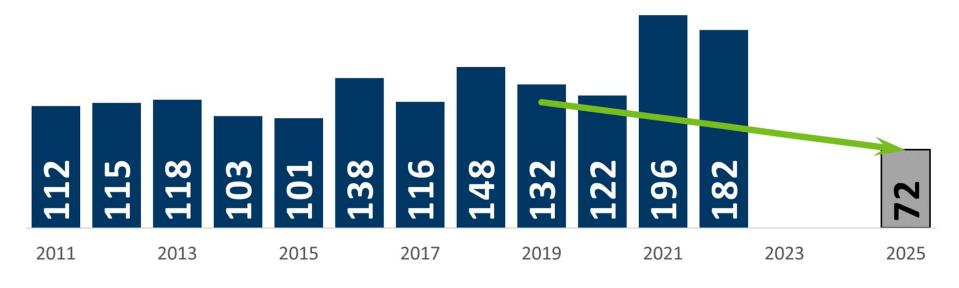
Greater Minnesota Progression to 225 in 2025

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# Metro Region Progress Toward SHSP Goal

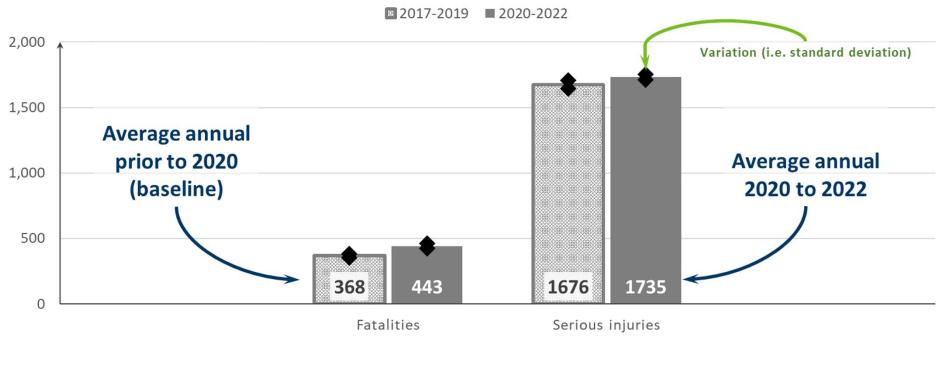
2022 crashes preliminary as of 04/14/2023

## Metro Regional Progression to 225 in 2025



# Trends Pre-/Post-2020

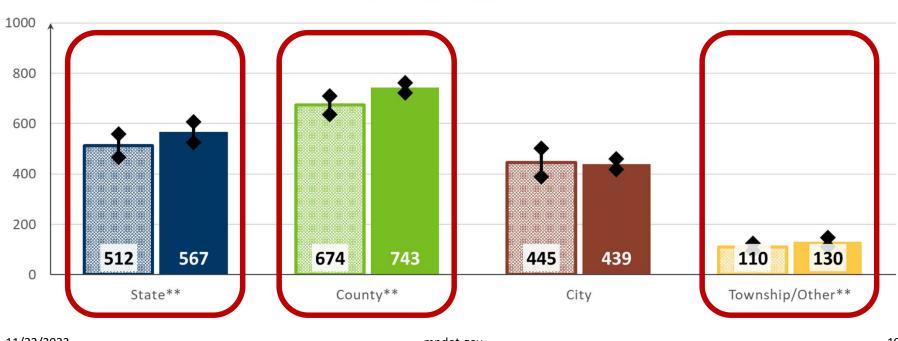




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# Roadways | All Public Roads

2022 crashes preliminary as of 04/14/2023

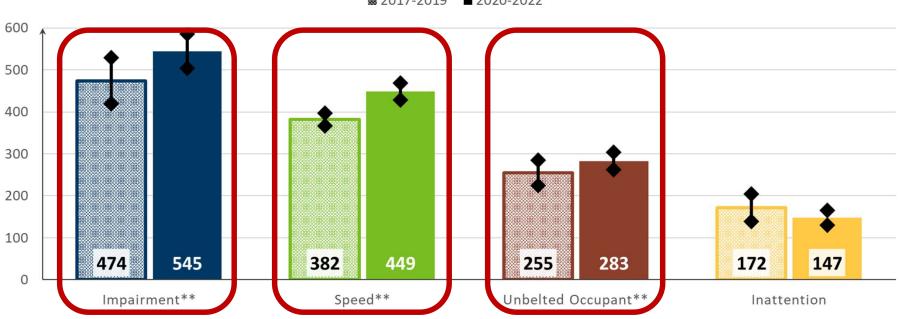


Average annual fatal and serious injury crashes by roadway jurisdiction *\*\* denotes a percent change greater than the percent change in all fatal and serious injury crashes* 

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# Behaviors | All Public Roads

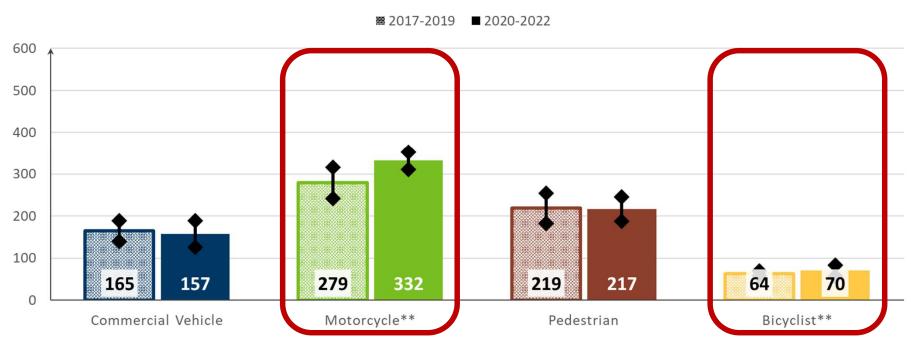
2022 crashes preliminary as of 04/14/2023



Average annual fatal and serious injury crashes in behavior focus areas \*\* denotes a percent change greater than the percent change in all fatal and serious injury crashes

# Modes | All Public Roads

2022 crashes preliminary as of 04/14/2023



Average annual fatal and serious injury crashes in modal focus areas \*\* denotes a percent change greater than the percent change in all fatal and serious injury crashes

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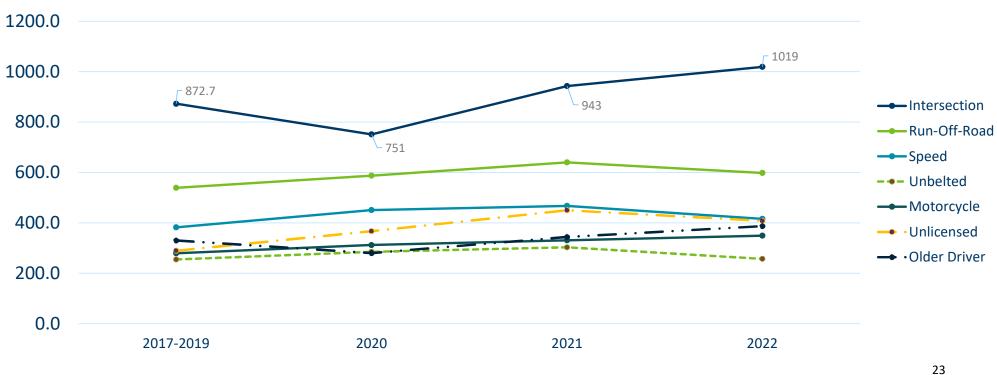
# Statewide Trends

2022 crashes preliminary as of 04/14/2023



# Statewide Crash Data – Summary

Fatal and Serious Injury Crashes = **8,930** over 5 years (2018-2022 - Preliminary) – Up 9% over previous 5 years



SHSP Focus Areas (2018-2022)

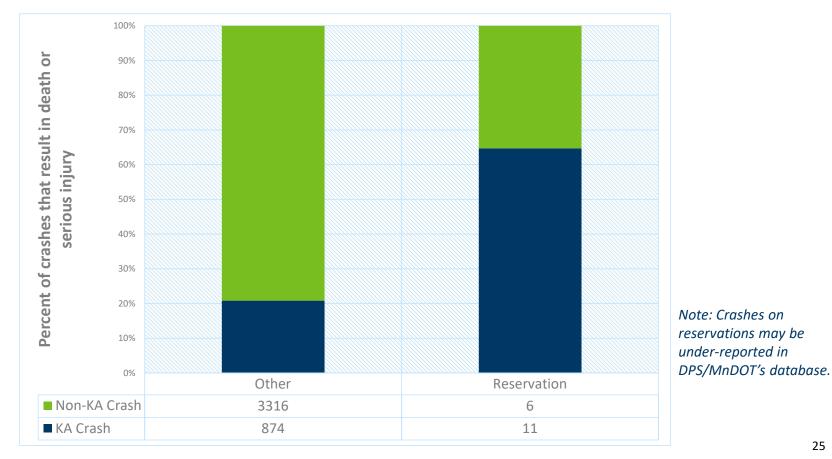
# Key Takeaways | All Public Roads

2022 crashes preliminary as of 04/14/2023

- A. Fatal and serious injury crashes 2020-2022 greater than 2017-2019
  - +8% relative to baseline
- B. Crash types greater than baseline <u>and</u> trending up:
  - Impairment, [Speed greater than baseline but may have plateaued]
  - Motorcycle, Bicyclist
  - Unlicensed Driver, Younger Driver, Older Driver
  - Intersection/Interchange, Run-off-road, Head-on
- C. There were 12 counties with ZERO fatalities!

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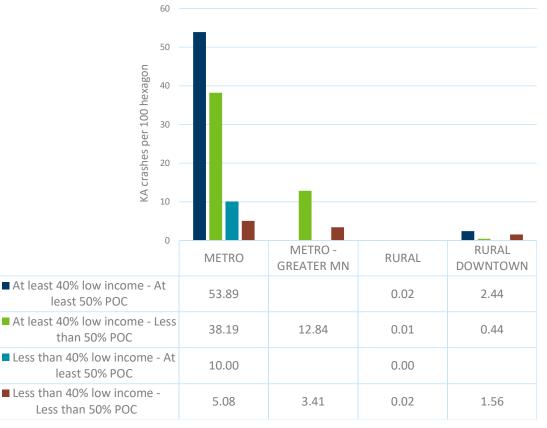
## Crashes by SPACE Demographic Inputs and Severity: Reservations



## Crashes by Demographic Inputs: BIPOC Communities + Low Income



Areas where a majority of residents are Black, Indigenous, and People of Color have almost **9x** as many fatal and injury pedestrian crashes per square mile as majority white areas.







Equity and Engagement

11 MnDOT acknowledges the transportation system and agency decisions have underserved, excluded, harmed, and overburdened some communities. We understand some of our past decisions denied Black and Indigenous communities as well as people with disabilities the full participation of transportation benefits. These and other underserved communities have historically carried disproportionate burdens of transportation decisions.

MnDOT is committed to creating an equitable transportation system

Transportation equity means the benefits and burdens of transportation systems, services and spending are fair and just, which historically has not been the case. Transportation equity requires ensuring underserved communities, especially Black, Indigenous and People of Color, share in the power of decision making.

# **Other Definitions**

## Fair and Just

### • Fair

Everyone has access to transportation outcomes that are free from bias and discrimination

## • Just

Taking proactive measures to ensure benefits are adequately accessible to underserved communities

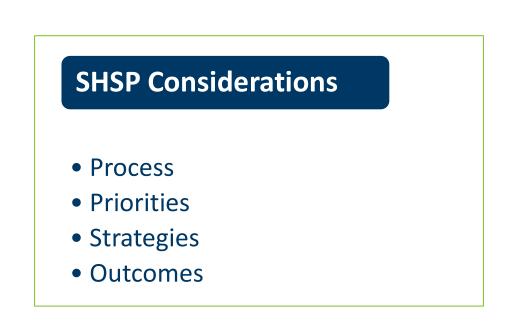
## **Underserved Communities**

- Share a characteristic or geography
- Have been systematically denied opportunities to participate in economic, social and civic life
- May be based on racial, gender, sexual orientation, geographic, disability, income, and other characteristics
- These characteristics often overlap, increasing the impact experienced

# Equity in the SHSP

## Equity Stakeholder Intersectionality

- ✓ Underrepresented
- ✓ Underserved
- ✓ Experience safety disparities



# Engagement and the 2025-2029 SHSP



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# What's New for the 2025-2029 SHSP?

# 2025-2029 SHSP: Requirements

- Vulnerable Roadway User Safety Assessment
  - IIJA requirement due November 15, 2023
  - Update required for SHSP
- Fiscal Year (FY) 2021 Older Drivers and Pedestrians Special Rule: 23 U.S.C
- Highway Safety Improvement Program (HSIP) Implementation Plan



# 2025-2029 SHSP: Included

- Advisory Council on Traffic Safety
- Best practices review
- Equity integration
- Better engagement (more options)
- More region-specific data/tactics
- More action orientation
- Dashboard pilot



# 2025-2029 SHSP: Process and Content

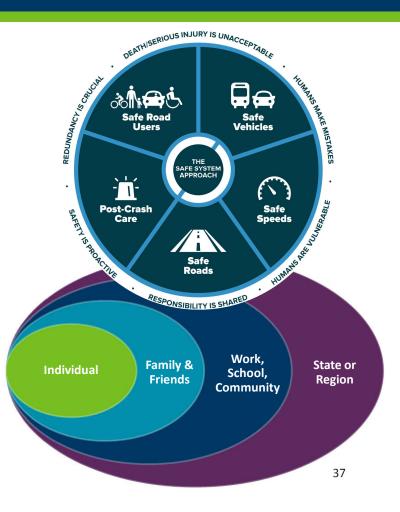
## Strategies around TZD 2.0

- Safe System Approach
- Traffic Safety Culture (Addressing Beliefs, Positive Community Norming)
- Empowering Regions, Local Community Engagement
- Data, Analytics, Research

## Incorporate identified safety needs

- District and County Safety Plan Updates
- Vulnerable Road User Safety Assessment
- How to fit with new DPS HSP approach (3-yr)

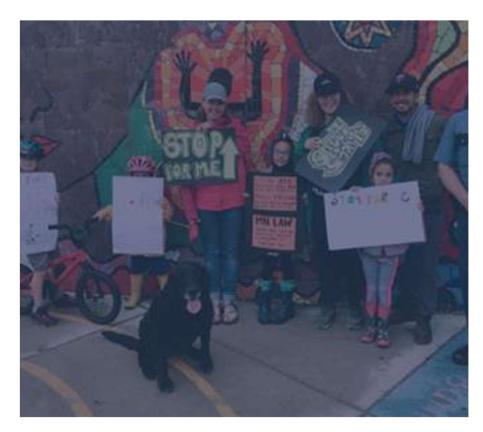
## • How do we take resources into account?



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# 2025-2029 SHSP: Implementation

- Statewide engagement map for public to input Ideas
- Action Teams develop strategies/ tactics by Focus Area
- Use engagement process to create awareness of TZD and Priority Safety Issues (be strategic)
- Should strategies/tactics be specific to regions? Set priorities for each region?



# And Finally...



# DEPARTMENT OF TRANSPORTATION

# Discussion

mndot.gov

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