



# Comprehensive Safety Action Plan

Transportation Advisory Board  
May 21<sup>st</sup>, 2024





# AGENDA

- Safety Analysis Work to Date
- Phase One Public Engagement Update
- Next Steps
- Q&A

City of Mesa

**ROAD**     
**SAFETY** 

01

Safety Analysis  
Work to Date



# High Risk Network

- Segments
- Collision History
  - Severity (Fatal, Severe, Minor, Possible Injury)
  - Vulnerable Mode (Ped, Bike, Motorcycle)
  - Vulnerable Age (<18 or 65+)
  - Federal Disadvantaged Community designation
  - Results in a Collision Score
- Risk Factors
  - Segments with 6 or more overlapping factors

Traffic Volume  
30K+

4+ Lanes

40+ MPH  
Posted Speed  
Limit

Within 1,000'  
of a School

Two-Way-Left-  
Turn-Lanes

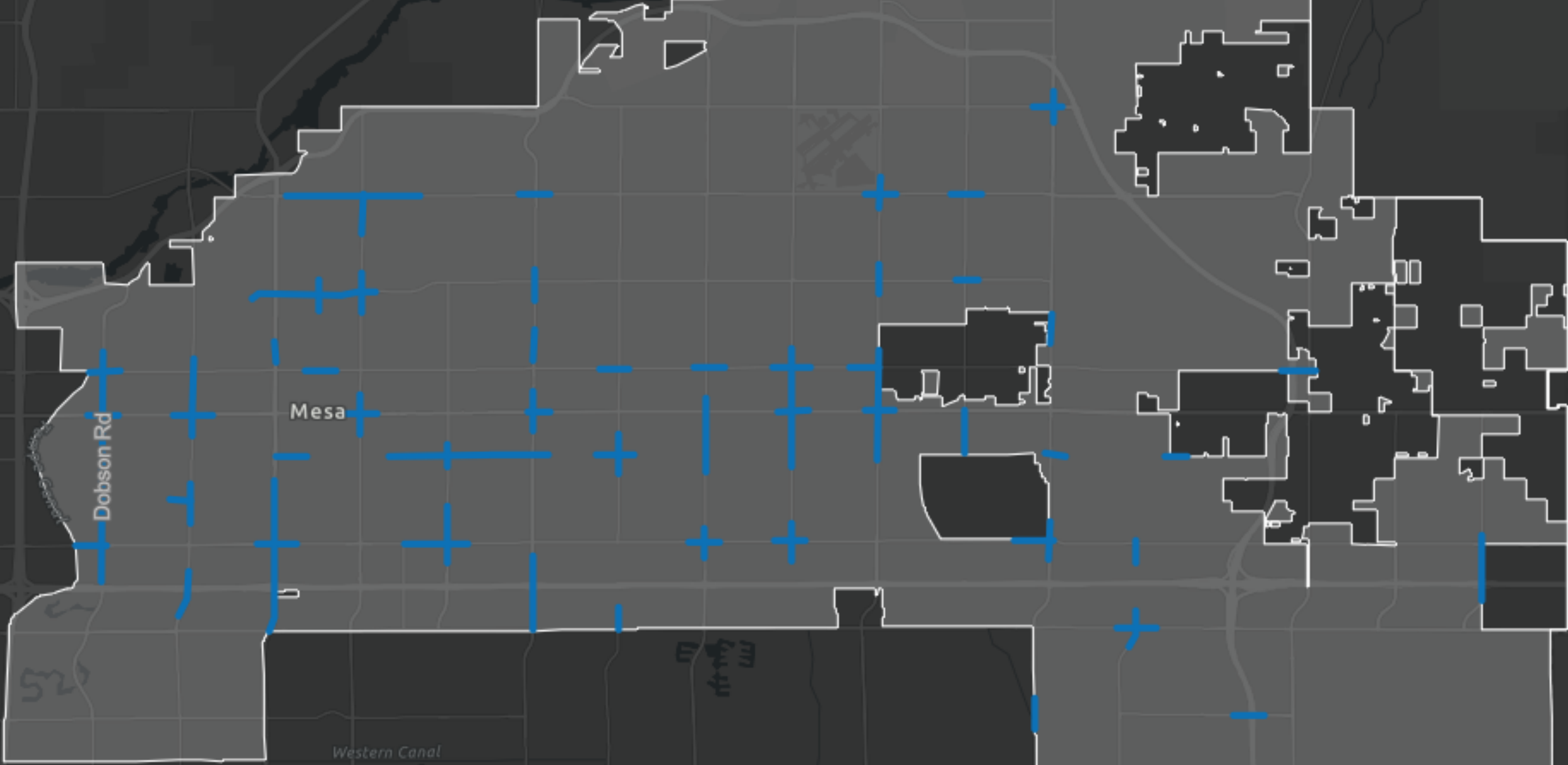
Commercial  
Land Use

Major  
Intersections

Traffic Signals



# 95<sup>th</sup> Percentile High Risk Network







# Risk Factor Segments

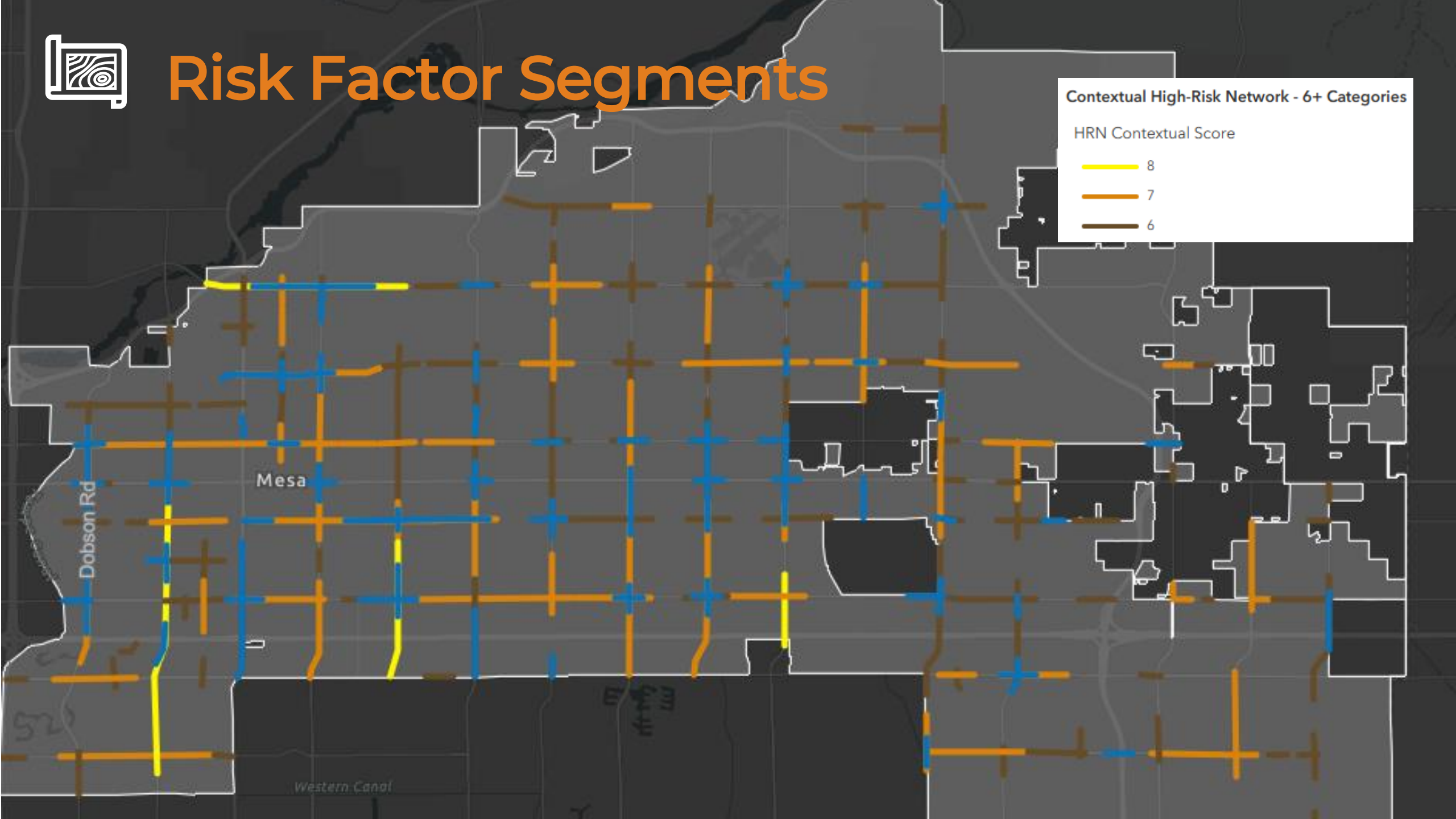
Contextual High-Risk Network - 6+ Categories

HRN Contextual Score

8

7

6





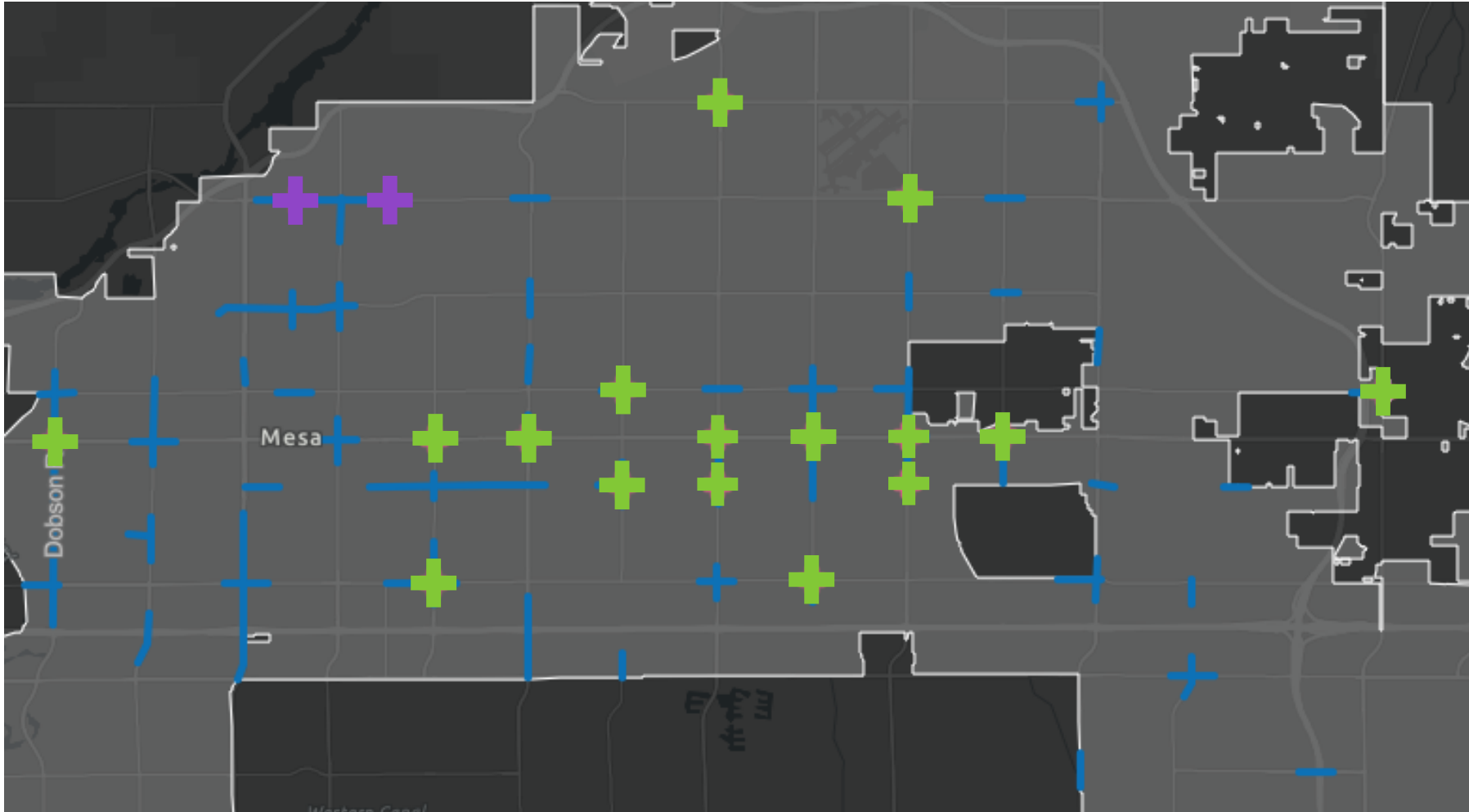
# High Risk Network

## Statistics Summary

HRN Component	Length	Share of Total KSI	Citywide Arterial Share	Citywide Collector Share	Share of Total Network	Share in DAC
Collision History (95 <sup>th</sup> )	<b>36 miles</b>	<b>39%</b>	<b>12.4%</b>	<b>0.4%</b>	<b>2%</b>	<b>67%</b>
Collision History (90 <sup>th</sup> )	68 miles	53%	21.4%	2.7%	5%	58%
Risk Factors	125 miles	67%	40.3%	5.0%	8%	18%



# Predictive Safety Analysis



- GREEN  
Highest Ranked  
Arterial - Arterial  
Intersections
- PURPLE  
Highest Ranked  
Collector - Arterial  
Intersections

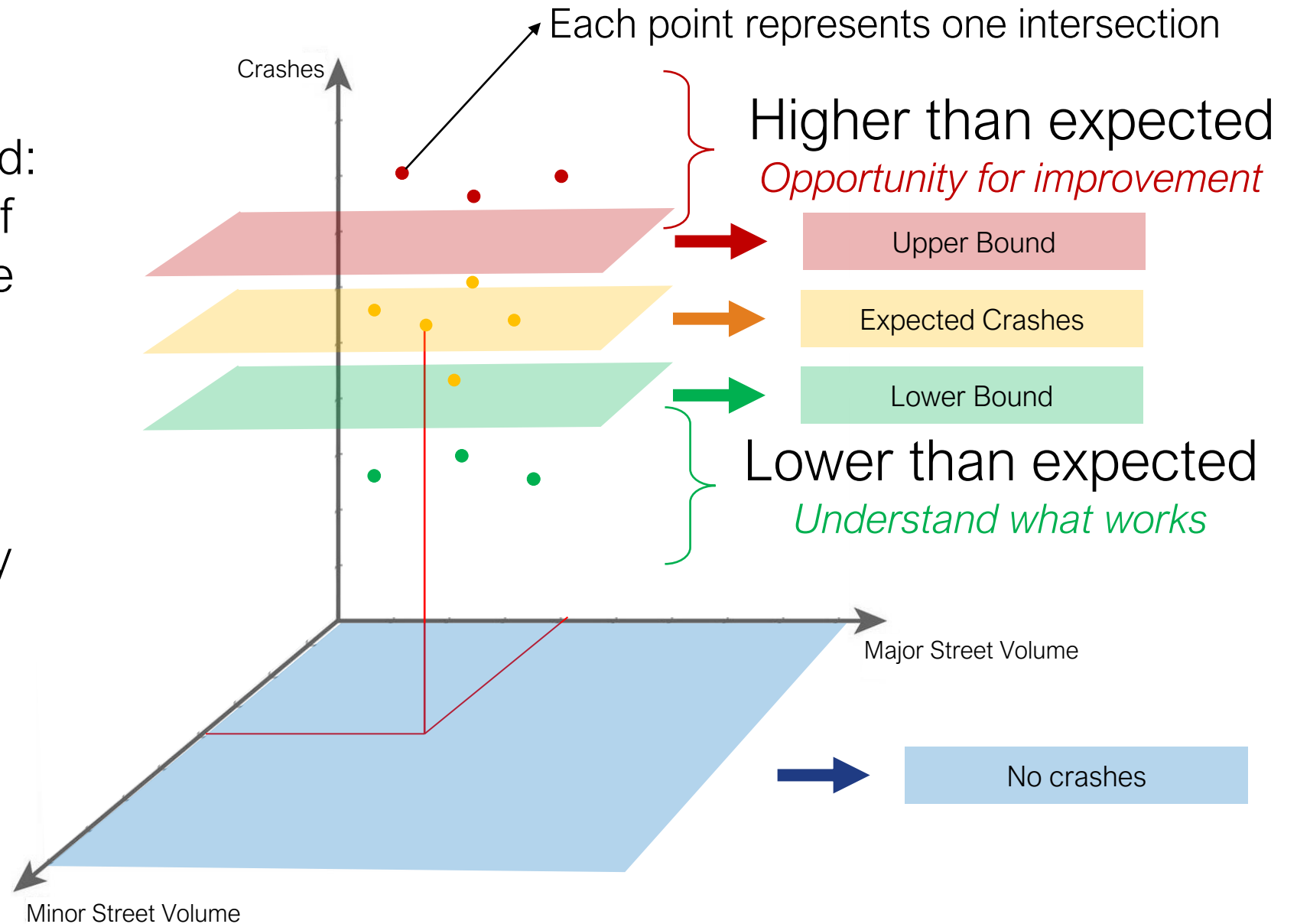




# Predictive Safety Analysis

2 factors are considered:  
Volume and number of  
crashes on each of the  
streets

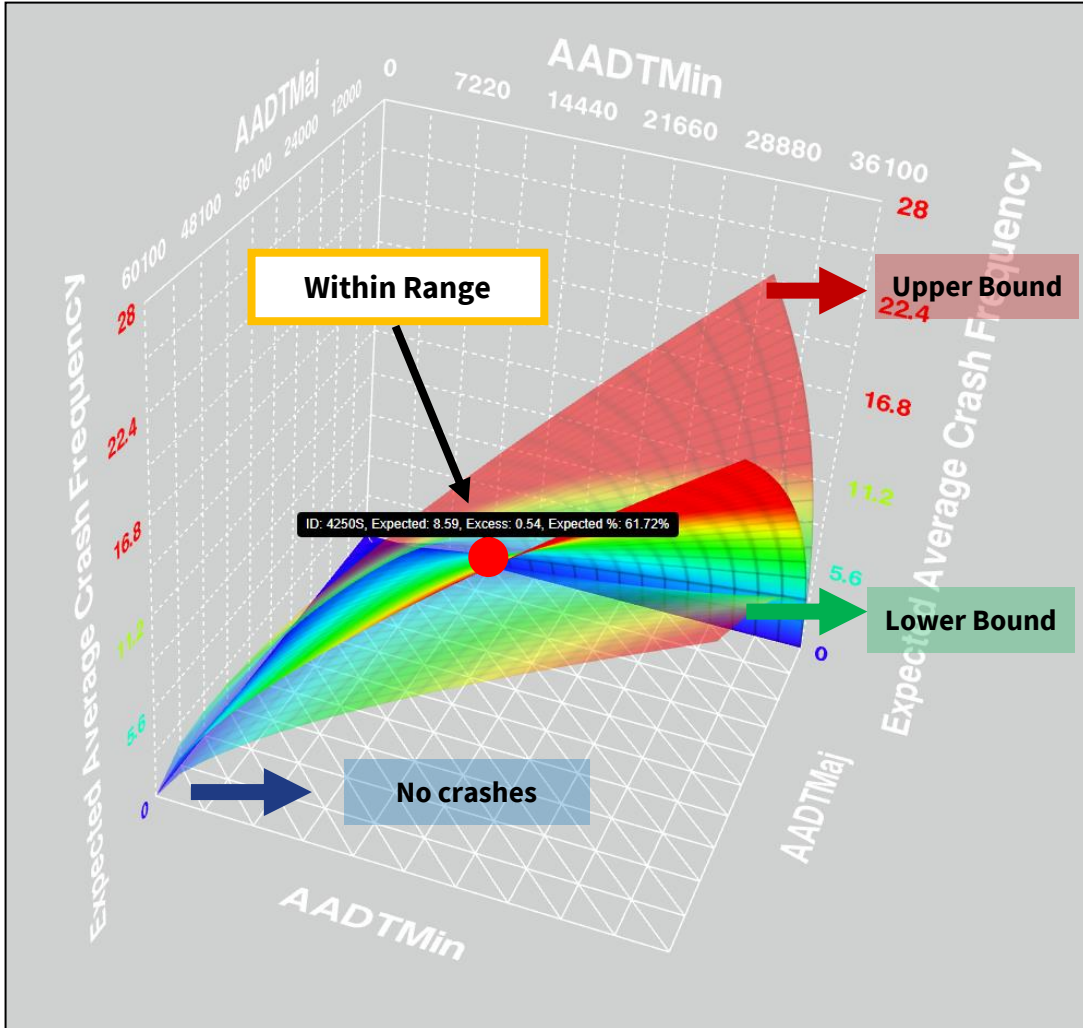
To calculate a third  
factor: crash frequency



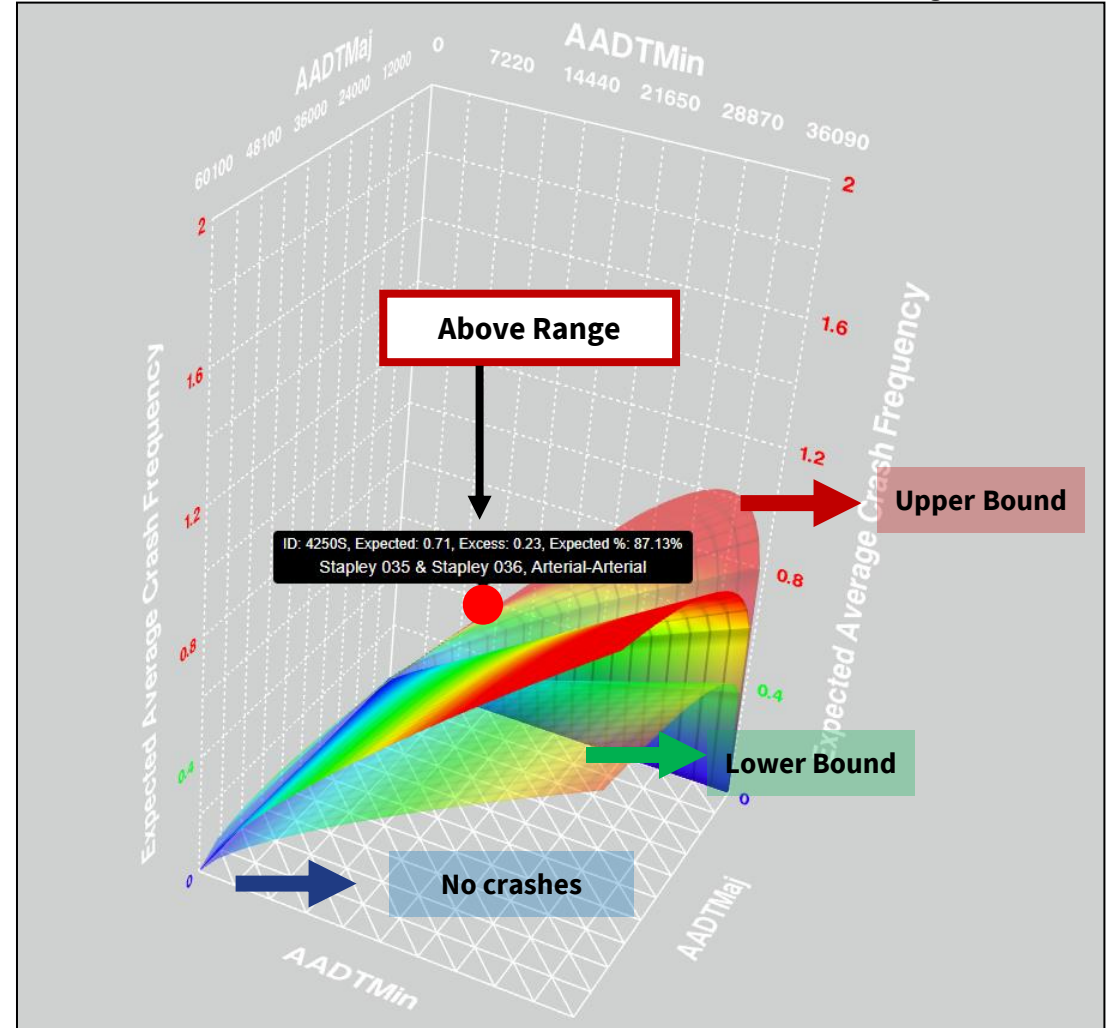


# Predictive Safety Analysis

## Arterial-Arterial: All Crashes



## Arterial-Arterial: Fatal and Serious Injury





# Collision Profiles



Failed to Yield violations on streets with 40+ MPH posted speed

Head on collisions

Pedestrian collisions at signals on 6+ lane streets

Pedestrian collisions between 6 PM and midnight in commercial areas

Collisions involving drivers age 65+

Collisions involving alcohol or drugs

Bike angle collisions at intersections (signalized and unsignalized)

Bike and Pedestrian collisions involving people 17 and under

Motorcycle and vehicle-only collisions involving left turns at signals without fully protected lefts

Motorcycle collisions at unsignalized intersections on arterials

Motorcycle single vehicle collisions





# Collision Profiles & Injury Severity

<b>Collision Profiles</b>	<b>Share of Citywide KSI</b>
<b>Failed to Yield violations on streets with 40+ MPH posted speed</b>	31.27%
<b>Collisions involving drivers age 65+</b>	23.47%
<b>Collisions involving alcohol or drugs</b>	21.22%
<b>Motorcycle and vehicle-only collisions involving left turns at signals without fully protected lefts</b>	19.37%

*63% of the time someone is seriously injured or killed, it is one or more of these four collision profiles*

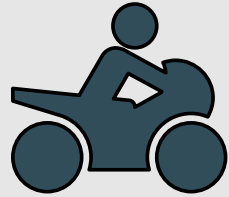
*KSI = Killed or Seriously Injured*



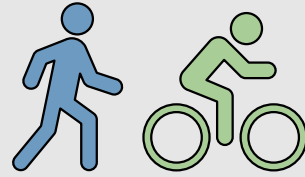
# Preliminary Road Safety Focus Areas



Vulnerable Ages  
(<18 & 65+)



Motorcycle



Vulnerable Road  
Users (Ped &  
Bike)



Arterial  
Segments



Behavior

City of Mesa

**ROAD**     
**SAFETY** 

02

Phase I Public  
Engagement  
Update





# Online Survey



## City of Mesa Road Safety Plan

Moving Mesa Towards Safer Streets

Open

### City of Mesa Comprehensive Safety Action Plan

Please take this short survey to help the study team understand transportation and mobility safety concerns that are important to you.

Enter to win \$100 gift card! Fill out this survey and include your email address.

Please note this survey will close on May 31, 2024.



### What is a Comprehensive Safety Action Plan?

The Comprehensive Safety Action Plan (CSAP) will serve as a roadmap for *Moving Mesa Towards Safer Streets*, including identifying road safety strategies and projects, and fostering a community-wide culture of safety. The CSAP is assessing the main risk factors of deadly and serious crashes, using feedback from the public and detailed data analysis. This will enhance the city's efforts to prevent motor vehicle crashes through safety planning and education, redesigned streets and updates to policies and operations.

#### 1. Thinking of your experience traveling in Mesa, do you agree that Mesa streets are safe?

- Strongly Agree
- Agree
- Neutral
- Disagree
- Strongly Disagree

#### 2. Which areas are of greatest safety concern to you? Rank the following strategies in order from most concerning to least concerning by dragging the options from the left list to the right block.

Intersections

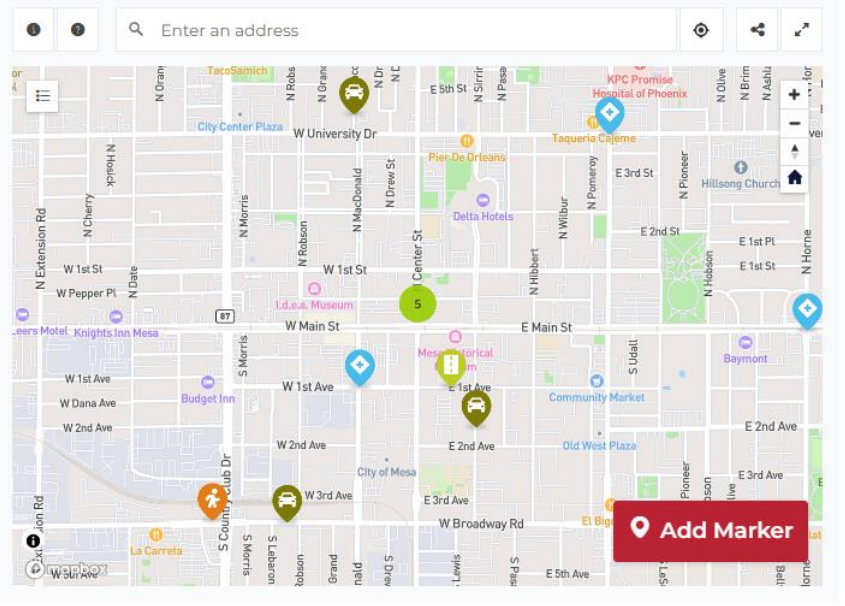
### Map Safety Issues in Mesa

For additional information on how to use the interactive map, please click on the info or help icons which are located to the left of the address search bar."

Click the red "Add Marker" box and use your mouse to drop a marker on the map to share where you have safety concerns in Mesa. Then, select the topic of your comment from the drop down menu. You can also add a comment in the field that appears beneath the drop down menu.

For additional information on how to use the interactive map, please click on the instructions icon located to the left of the address search bar.

138 contributions so far



[www.mesasafeststreets.com](http://www.mesasafeststreets.com)





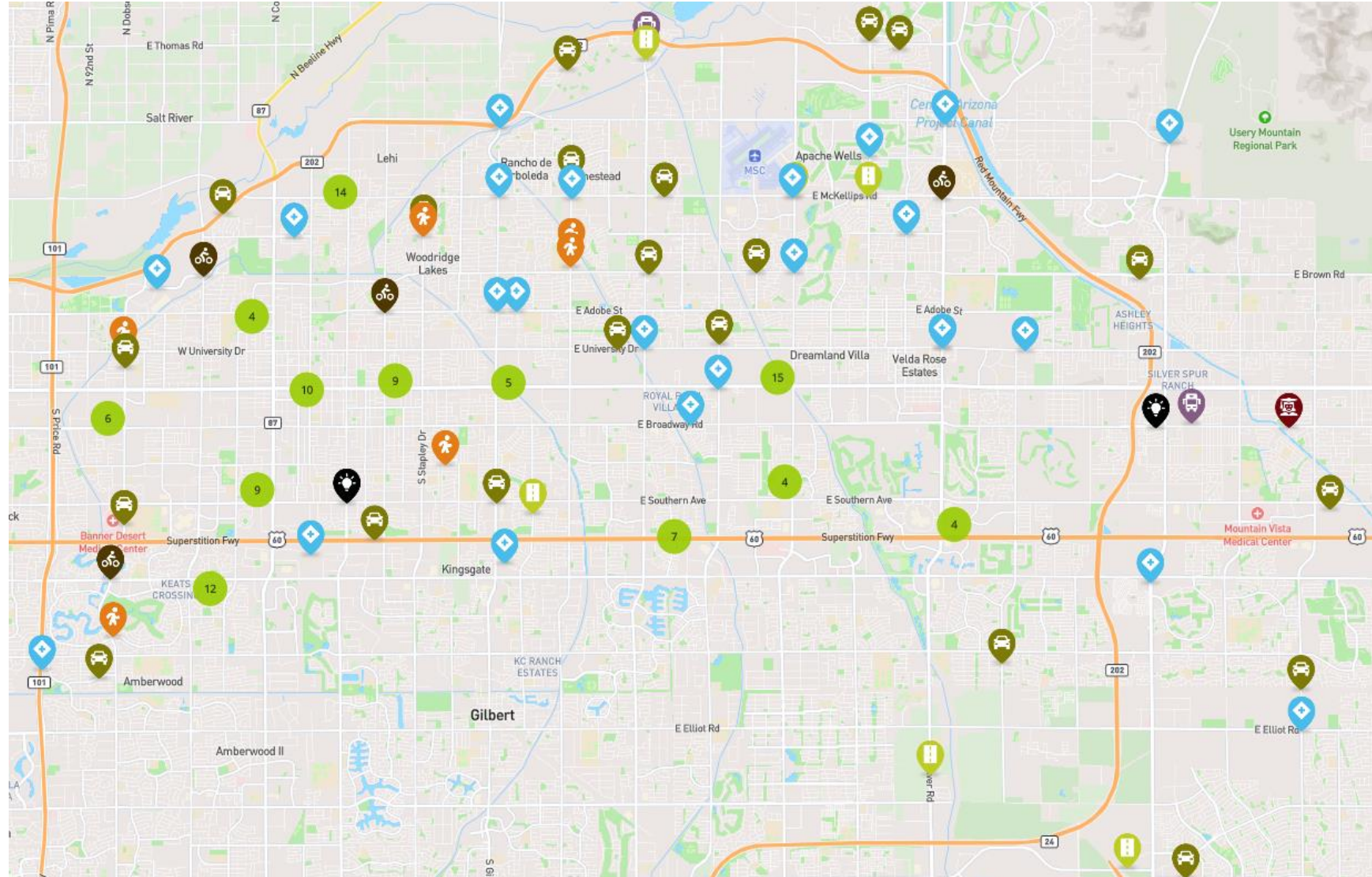


# Preliminary Survey Results

To Date:

**1,453** Surveys Submitted

**529** Map Comments



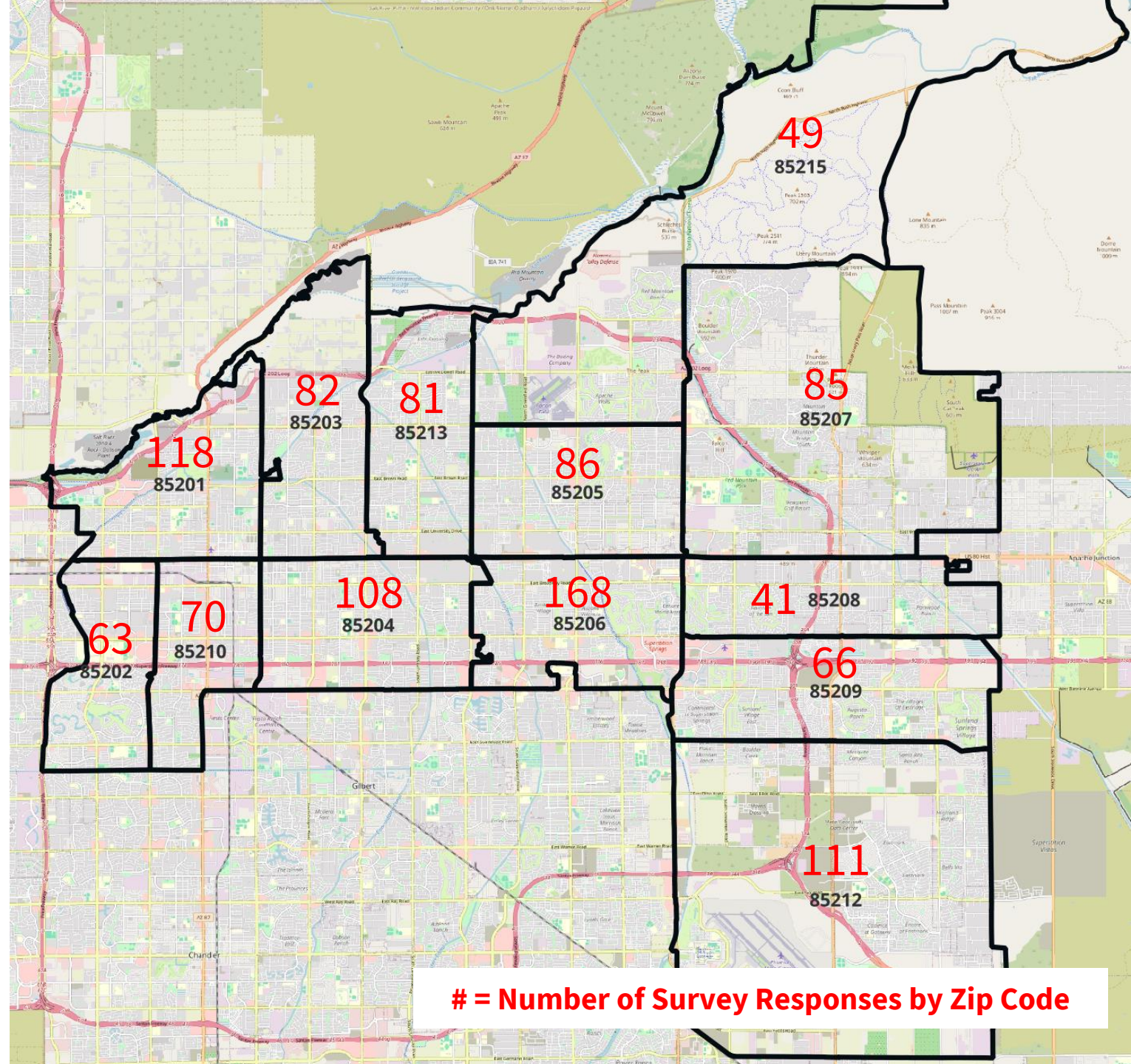


# Survey Results by Area

Zip Code	Survey Responses	% of response
85206	168	14.89%
85201	118	10.46%
85212	111	9.84%
85204	108	9.57%
85205	86	7.62%
85207	85	7.54%
85203	82	7.27%
85213	81	7.18%
85210	70	6.21%
85209	66	5.85%
85202	63	5.59%
85215	49	4.34%
85208	41	3.63%

Total - 1128\*

\*does not include survey responses from individuals who live outside of the City limits



**# = Number of Survey Responses by Zip Code**



City of Mesa

**ROAD**     
**SAFETY** 

03

Next Steps

# NEXT STEPS



We are here

IDENTIFY FOCUS  
AREAS AND  
STRATEGIES



DEVELOP AND  
PRIORITIZE  
PROJECTS

Summer/Fall '24



PUBLIC  
ENGAGEMENT  
PHASE 2

Fall '24



POST PLAN  
SUPPORT AND  
OUTREACH

2025



PREPARE DRAFT  
AND FINAL PLAN

Winter '24/'25



SS4A GRANT  
2025



City of Mesa

**ROAD**     
**SAFETY** 

04+

Q & A







# Social Media Video

