

Mesa County

# Safety Action Plan

**Enhancing Roadway Safety in Our Community** 

# The Problem in Mesa County

## **The Problem in Mesa County**

Between 2016 and 2022...

2,458 Total crashes/yr

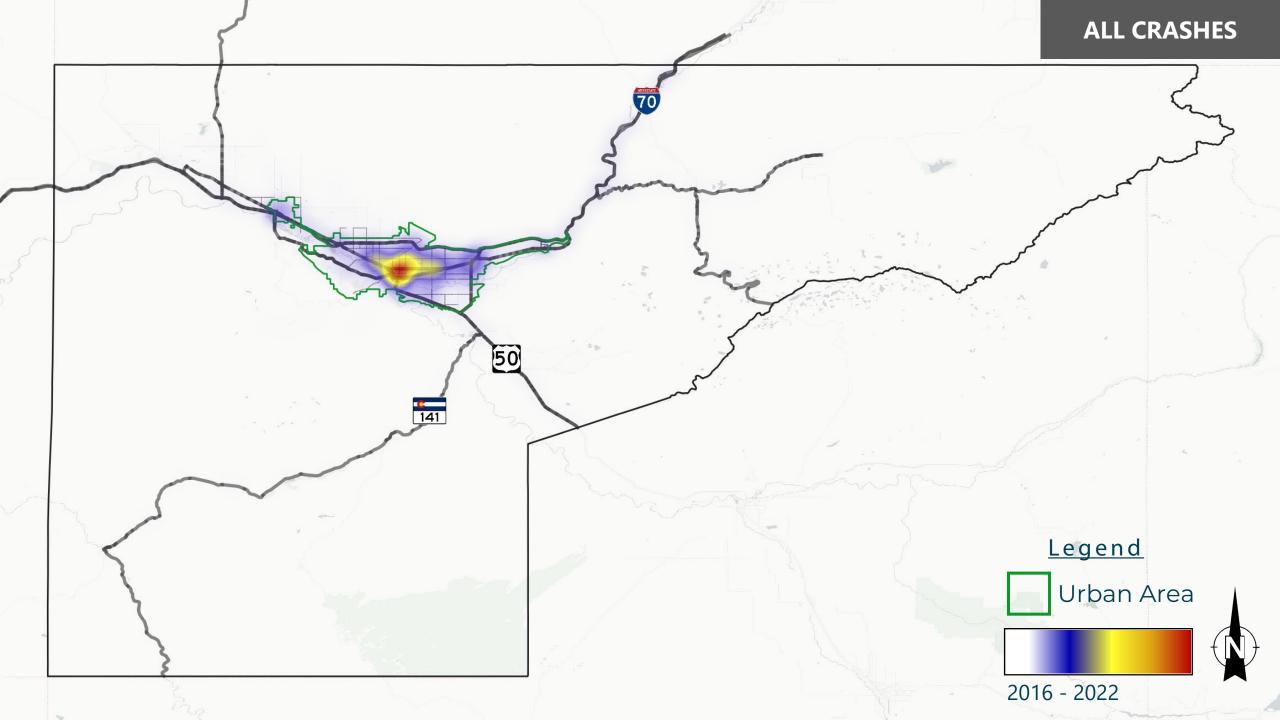
17,208 Total Crashes 3.45% KSI Rate

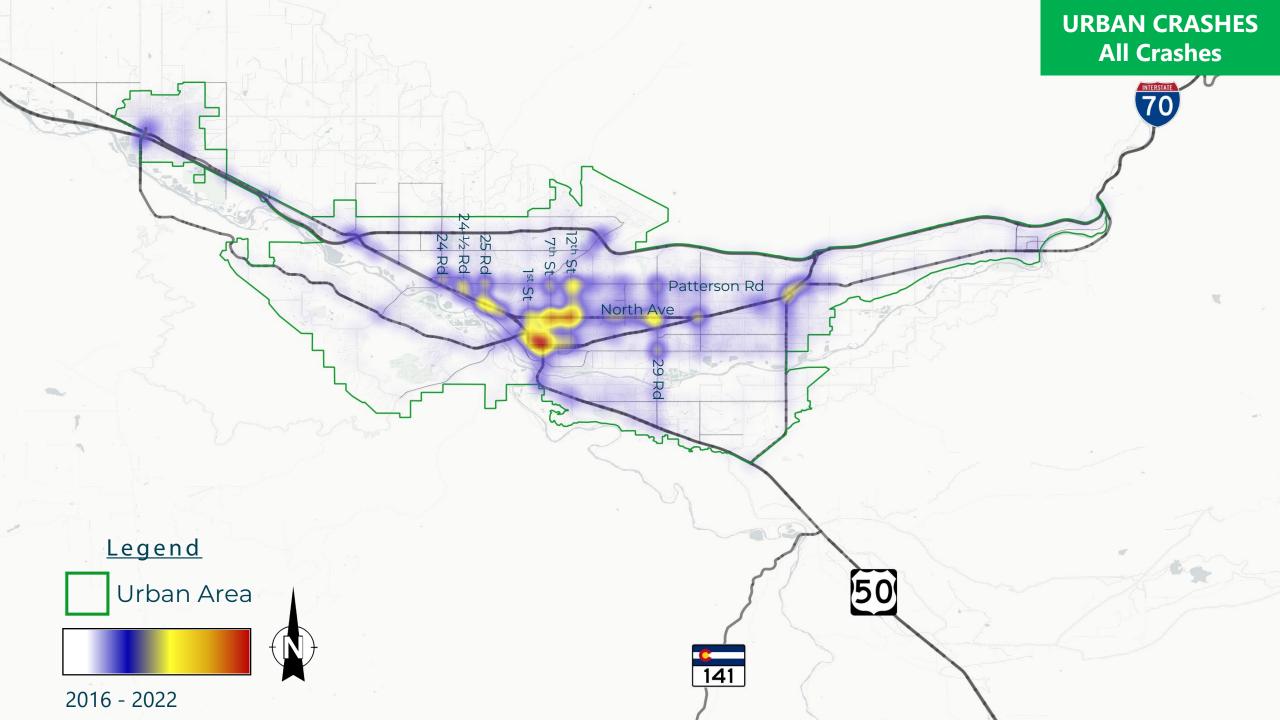
17 Fatal crashes/yr **Fatal Crashes** 

**68** Serious Injury crashes/yr **Serious Injury Crashes** 

In 2022, the crash rate in Colorado was 13.1 deaths per 100,000 people the crash rate in Mesa County was 17.6 deaths per 100,000 people







### Urban Crash Trends Mesa County, 2016-2022

#### **Crash Locations**



**60%** of urban crashes were intersection related. About half, **56%** of these crashes were at unsignalized intersections.

#### **Contributing Factors**



Impairment is a factor in 23% of urban fatal and serious injury crashes.



Speeding is a factor in **22%** of urban fatal and serious injury crashes. Aggressive driving is the most common contributing factor.



Urban areas accounted for **98%** of pedestrian and bicycle fatal and serious injury crashes.



31% of urban crashes involved drivers under the age of 25.



## Rural Crash Trends Mesa County, 2016-2022

#### **Crash Locations**



**85%** of rural crashes were non-intersection crashes. The majority, **73%** occurred on state highways.

#### **Contributing Factors**



Impairment is a factor in 22% of rural fatal and serious injury crashes.



Speeding is a factor in **44%** of rural fatal and serious injury crashes. Aggressive driving is the most common contributing factor.



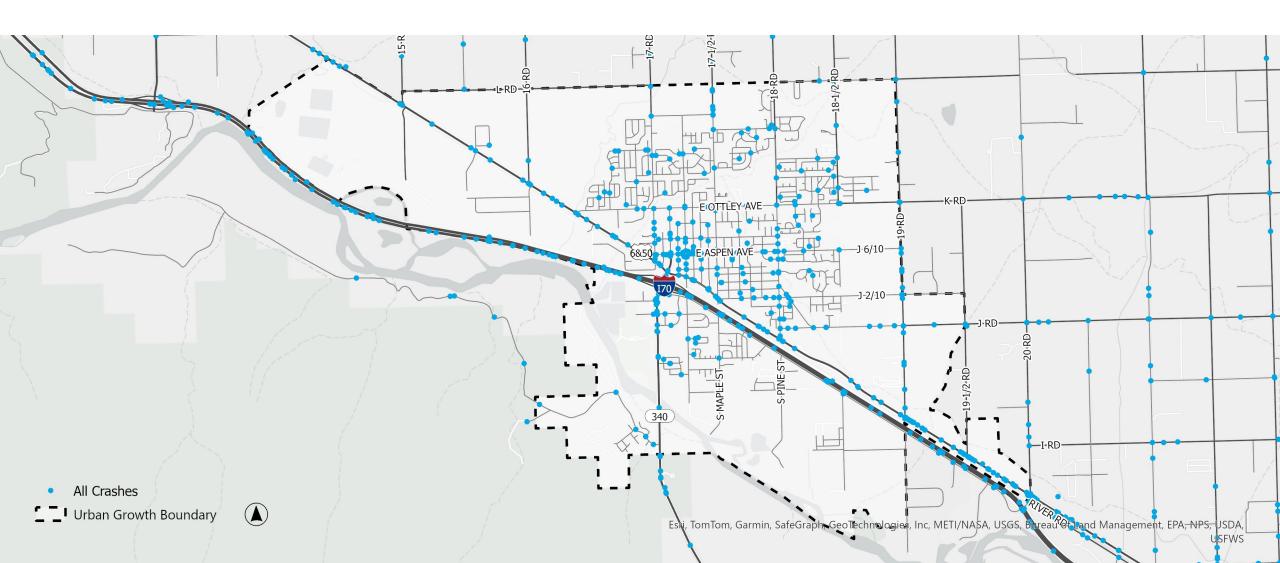
Rural areas accounted for 49% of fatal and serious injury motorcycle crashes.



Wild animals contribute to **12%** of rural fatal and serious injury crashes (that do not include a vehicle-to-vehicle collision).



# Crashes In/Near Fruita All Crashes 2016-2022



## Crashes In/Near Fruita Killed and Serious Injuries 2016-2022



# 12 The Solution



# Safe Streets and Roads for All (SS4A) Grant Program

In 2021, the Bipartisan Infrastructure Law established the SS4A program with \$5 Billion in appropriated funds between 2022 and 2026. The program provides financial support for the planning, infrastructure, behavioral, and operational initiatives to prevent death and serious injuries on roads and streets involving all roadway users.

# **Funding**



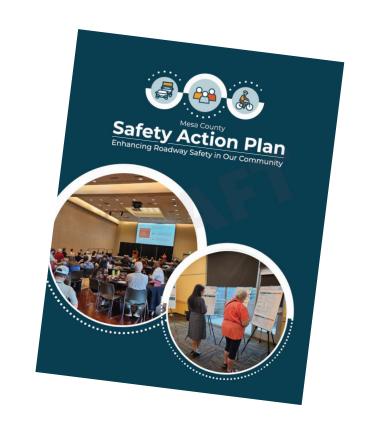
Local Funding = Joint Contributions from Mesa County, Grand Junction, Fruita, and Palisade



# **The Solution: Mesa County Safety Action Plan**

Aimed to identify solutions to reduce the number of deaths and serious injuries on our roads across Mesa County.

The Mesa County Safety Action Plan looked at local data and peer research and ultimately was built on a foundation of partnerships between a diverse group of stakeholders who strive to find solutions to make Mesa County roads safer for all users.





### **Valued Stakeholder Coordination**

#### **Government**

**Engineering & Planning** 

Maintenance

**Public Health** 

#### **Law Enforcement**

Colorado State Patrol

Mesa County Sheriffs Office

**Grand Junction Police Department** 

#### **Hospitals**

Intermountain Health – St. Mary's Community Hospital

#### **Education**

District 51 + Student Transportation for America CMU/CU Boulder

Non-Profit Mother's Against Drunk Driving



Not all stakeholders pictured



# Valued Public Input: Phase 1 March 18 – April 28, 2024



#### **Booths at Community Events**

- 1. Cesar Chavez Celebration
- 2. Sustainability and Adaptation Open House
- 3. Arbor Fest



754 Recorded Users



275 Survey Responses

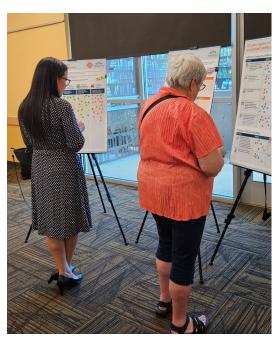


245 Map Comments

#### **Online Input Themes**

- 1. Speeding and Aggressive Driving
- 2. Traffic Signal Timing and Red-Light Runners
- 3. Enforcement and Education
- 4. Bicycle and Pedestrian Infrastructure

## Valued Public Input: Phase 2 August 6 – September 9, 2024





#### **Booths at Community Events + Open Houses**

- 1. Clifton National Night Out
- 2. Cops N Cars Car Show
- 3. Palisade Sunday Farmers Market
- 4. Unity in Community Festival
- 5. Central + Clifton Library Open House





450 Community Participants



35 Safety Pledge



60 Priority Board Responses



50 Strategy Board Responses

### **4 Focus Areas**

#### **Build Safe Streets**

Influences the physical design of urban and rural intersections and roadways.



# **Protect Vulnerable Road Users**

Protecting people walking, biking, rolling, and motorcyclists.



# Address Dangerous Behaviors

Focuses on influencing behaviors and attitudes. Addressing driving under the influence and speeding.



# **Create a Culture of Safety**

Creates a community-wide commitment to the Mesa County Safety Action Plan.





#### **Objectives**

Actions in this area will influence the physical design of urban and rural intersections and roadways.

**Objective 1:** Enhance intersection operations and visibility where conditions have been or could be a crash factor

**Objective 2:** Focus on proactively reducing severe crashes based on contextual factors

**Objective 3:** Ensure funding aligns with safety improvement projects

#### 7 strategies:

#### **6 Engineering**

- Continue work:
  - Lighting
- New work:
  - Develop & fund a road safety audit program
- Prioritize High Injury Network (HIN):
  - Signalized intersection improvements
  - Segments/Roadways
  - Funding

#### 1 Evaluation

- New work:
  - Finalize the High Risk Network (HRN) analysis



## **Protect Vulnerable Road Users**

#### **Objectives**

Actions in this area will protect people walking, people biking, people rolling, and motorcyclists.

**Objective 1:** Host targeted events and education campaigns for the general public that promote safe behaviors and increase awareness of traffic laws

**Objective 2:** Prioritize vulnerable road user improvements on High Injury Network (HIN) segments

**Objective 3:** Build upon Safe Routes to School (SRTS) efforts

#### 9 strategies:

#### 7 Engineering

- Continue work:
  - Bicycle facilities
  - Sidewalk facilities
  - Bus stop improvements
  - Mid-block crossing improvements
- New work:
  - Right turn/slip lane improvements
  - Update SRTS audits and new plans
- Prioritize HIN and HRN:
  - SRTS Programs

#### 2 Education & Engagement

- New/Expanded work:
  - Cycle Safety Summit
  - Education campaigns



# **Address Dangerous Behaviors**

#### **Objectives**

Actions in this area focus on influencing the behavior and attitudes of people traveling throughout Mesa County. These actions address driving under the influence and speeding.

Objective 1: Reduce speeding and red-light running

**Objective 2:** Host targeted events and education campaigns for the public that promote safe behaviors and increase awareness of traffic laws

#### 8 strategies:

#### 3 Enforcement

- Continue work and Prioritize HIN/HRN:
  - Surge Operations
  - Saturation Patrols
- New work:
  - Pilot Automated Enforcement

#### 2 Engineering

- New work:
  - Pilot Speed Feedback Signs
  - Video Monitoring

#### **3 Education & Engagement**

- New/Expanded work:
  - Education campaigns



# **Create a Culture of Safety**

#### **Objectives**

Actions in this area focus on creating a communitywide commitment to the Mesa County Safety Action Plan.

**Objective 1:** Unite, equip, and empower multidisciplinary leaders to actively work together in pursuit of implementing the Mesa County Safety Action Plan

**Objective 2:** Support a transparent and data driven safety crash analysis

#### 6 strategies:

#### **Cross-Cutting**

- New work:
  - Fund a Safety Action Plan Coordinator
  - Evolve the Stakeholder Working Group to a Transportation Safety Task Force
  - Use and update the crash dashboard
  - Annual reporting and community input
  - Transportation Symposium

#### Continue/Prioritize

Coordination with CDOT on HIN and funding partnerships

# Plan Implementation & Next Steps



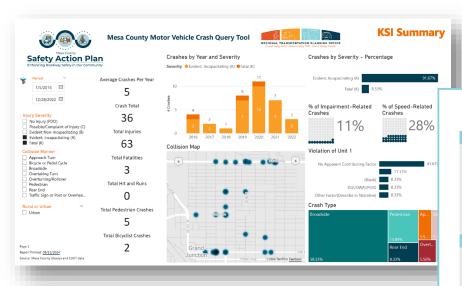
# **Future Funding Opportunities**

After completion of the Mesa County Safety Action Plan, additional funding is available and will be pursued to implement recommendations from the plan.



# **Complementary Tools & Resources**

Dashboard **Engineering Toolbox Project Cards** 



#### **Intersection Lighting**

#### Description:

Evaluate lighting conditions at intersection crosswalks and intersection approaches to ensure illumination standards are met, positive crosswalk lighting is provided and pedestrian level lighting is provided where appropriate. Actions to mitigate lighting deficiencies include installation of new light posts and enhancement/replacement of existing luminaries.

#### When/Where to Use:

This tool addresses night-time collisions, in particular involving vulnerable road users. It should be used when there is a lighting gap or insufficient lighting, and prioritized in areas of over-represented crashes during dark lighted conditions are identified at an intersection.

Associated Crash Type: Night-Time



**Effectiveness Prioritization Score:** 

40 / 50

Intersection lighting is associated with up to 42% reduction in nighttime injury crashes involving pedestrians.

Effectiveness Source: https://highways.dot.gov/safety/proven-safety-countermeasures/lighting

#### 7th Street & **Elm Avenue**

7th Street and Flm Avenue is a four-legged minor stop-controlled intersection with the east and westbound approaches stopping. There is on-street parking on the west leg turn lane in the center of the roadway on

because the KSI % was 37.5% over the study

#### SEVERE CRASH SUMMARY Crashes by Year and Injury Severity









The severe crash type at this intersection varies. There is an existing flashing beacon and striped crosswalk on the north leg of the intersection, which is recommended for enhancement to a High-Intensity Activated Crosswalk (HAWK) or a signalized intersection to improve safety and visibility for pedestrians. The crosswalk is recommended on the north side to avoid conflicts with the northbound left-turn movement, which is expected to have higher traffic volumes than the southbound left turns. Additionally, crosswalks are proposed for the east and west legs to facilitate pedestrian movement from the minor street to the signalized crossing. To further enhance pedestrian comfort and safety, bulb-outs and median islands are recommended to shorten the crossing distance and provide refuge, improving pedestrian safety and comfort.

#### PLANNING LEVEL COST ESTIMATE

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	Planning, Design, Development Assistate	27%		Т



**Enhancing Roadway Safety in Our Community** 

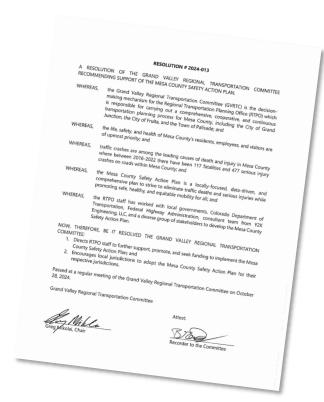
# **Today's Request & Upcoming Coordination**

#### **Regional Support: Resolution**

√ 10/28: Grand Valley Regional Transportation Committee

#### **Local Support: Resolutions**

- √ 11/12: Mesa County Board of County Commissioners
- ✓ 11/12: Palisade Board of Trustees
- 11/19: Fruita City Council
- 11/20: Grand Junction City Council





# THANK YOU!

### **Questions, Comments, or Feedback?**

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