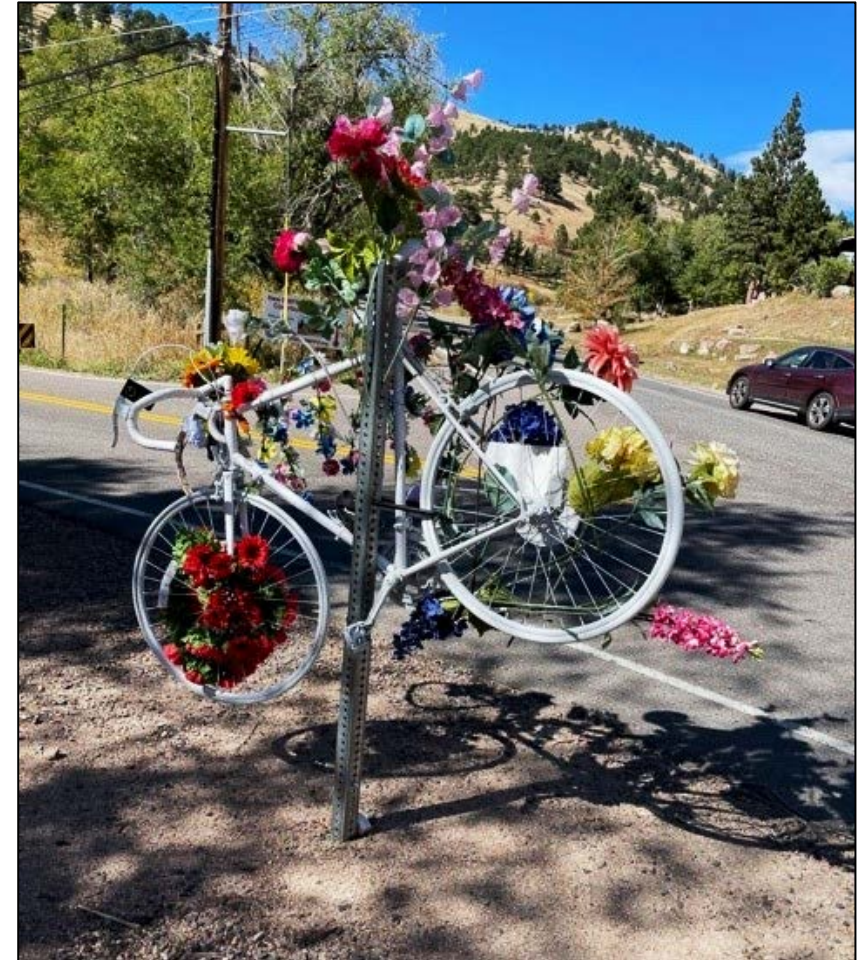


Vision Zero Update

March 8, 2023

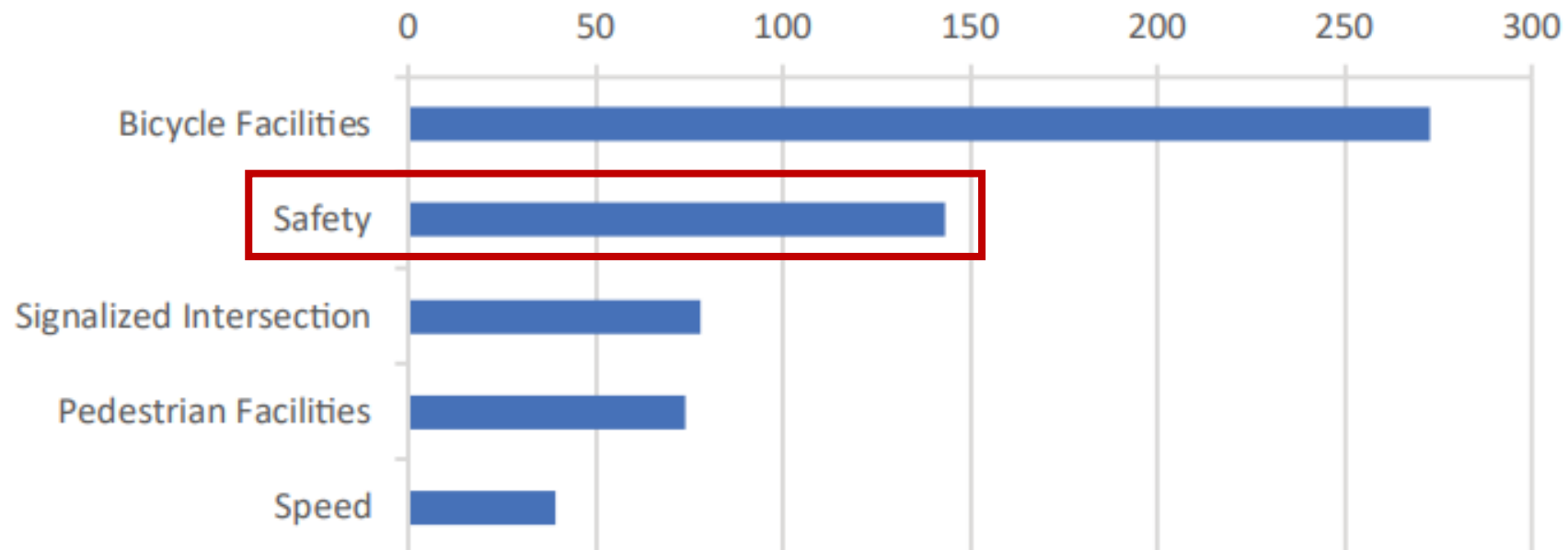
Departments & Offices Presenting:

- Community Planning & Permitting
- County Attorney's Office
- Commissioner's Office
- Public Works
- Sheriff's Office
- District Attorney's Office



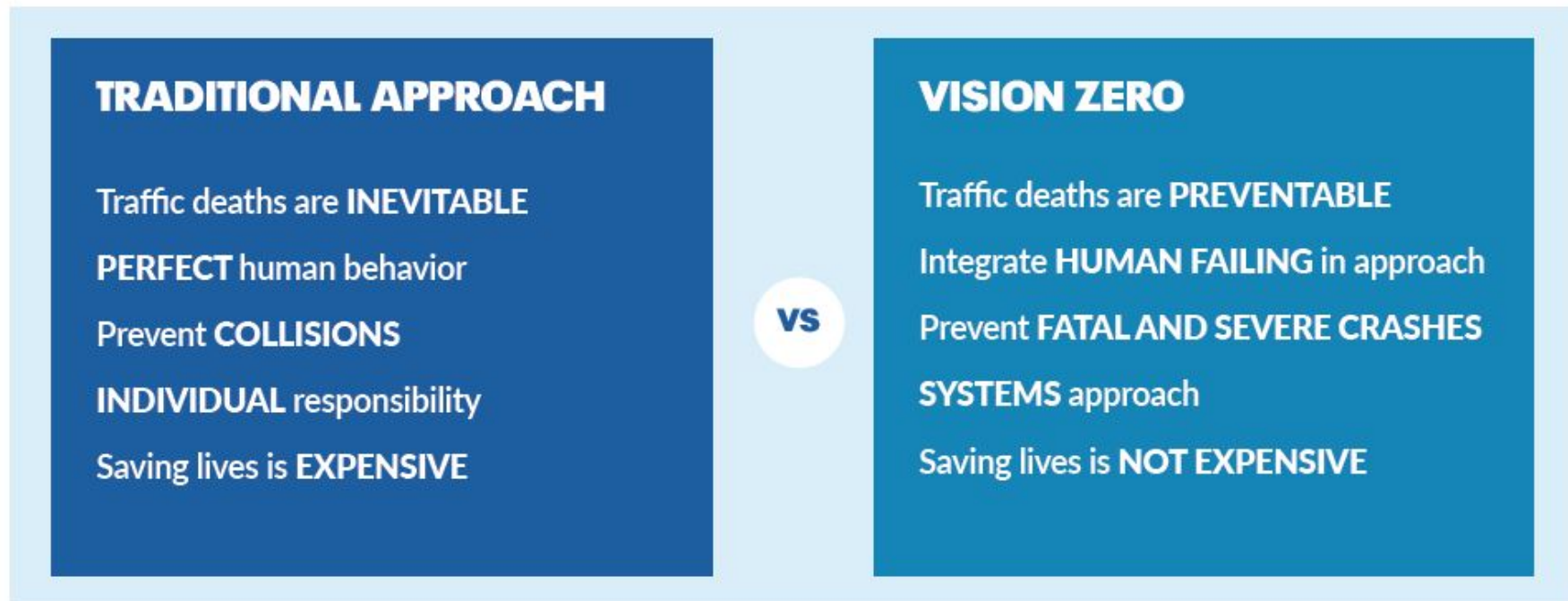
2020 Transportation Master Plan

Boulder County 2020 Transportation Master Plan (TMP)
Public Comments, by Category



What is Vision Zero?

A fundamental shift in philosophy and approach to traffic safety built on the foundation that **no loss of life is acceptable.**



Boulder County's Vision Zero Goal

- Eliminate serious injuries and fatal traffic crashes in unincorporated Boulder County by 2035

Equity

Vision Zero Safe Routes to School Action Plan

- Establish an equity-based prioritized list for traffic safety assessments and improvements at schools

Safer Streets & Roads For All (SS4A) Grant: Boulder County Vision Zero Action Plan

- Equity Assessment
- A focus on Vulnerable Road Users



2022 Transportation Sales Tax

Boulder County Transportation Sales Tax Program List of Proposed Projects with Project Descriptions			
	Project Cost	Lev.	Sales Tax
(5,000) (5,000)			
MULTIMODAL SAFETY & RESILIENCY PROJECTS			
1 South Boulder Road Reconstruction – Boulder to Louisville Includes safety improvements at Cherryvale; asphalt paving from Manhattan to Cherryvale; new underpass for city trail; new fencing; and pedestrian facilities.	\$ 14,100	10%	\$ 12,700
2 Mountain Road Safety & Repairs (Lee Hill, Sugarloaf, Sunshine) Safety improvements and repairs to Sugarloaf Road, Lee Hill Drive and Sunshine Canyon. Includes sections of uphill shoulder, upgraded guardrail, new pavement and striping.	\$ 9,800	0%	\$ 9,800
3 Niwot Road Shoulders – 79th Street to US 287 Reconstruct Niwot Road to improve shoulder width and multiuse path from 79th Street out to the US 287 park-n-ride.	\$ 8,100	0%	\$ 8,100
4 Eldora Ski Road Reconstruction – CR 130 to Eldora Ski Area Reconstruct road to reduce erosion damage and road stability. Reconstruct the majority of road, replace guardrail and widen sections of uphill shoulder.	\$ 5,800	0%	\$ 5,800
5 Highway 66 Improvements – Main to Hover (Longmont) Multimodal improvements to 1.5 miles of CO 66 from Main Street (US287) to Hover Street including multiuse path. Provides County support for CDOT / City partnership.	\$ 15,200	80%	\$ 3,050
6 120th Street Bridge Replacement over Coal Creek (Lafayette) Replace current three span bridge with larger structure to pass the 100-year event, restore creek and allow for improved multimodal access.	\$ 11,800	75%	\$ 2,950
7 East County Line Rd Buffered Shoulders – Hwy 66 to 17th Ave (Longmont) Widen East County Line Road from Highway 66 to 17th Street in the City of Longmont. Add buffered bike lanes and a multiuse path along the west side of the road.	\$ 11,600	75%	\$ 2,900
8 61st Street / Valmont Road Intersection Safety Improvements Reconstruct intersection to improve user safety. Fix intersection geometry and add auxiliary turn lanes for all users on 61st and bicyclists on Valmont.	\$ 2,700	0%	\$ 2,700
9 95th Street Buffered Shoulders – Yellowstone to Larimer County Reconstruct 95th Street between Yellowstone Road and the county line to include seven-foot paved shoulders on both 95th and Yellowstone.	\$ 2,300	0%	\$ 2,300
10 Isabelle Road Shoulders – 95th Street to US 287 Reconstruct road with five-foot paved shoulder from 95th Street to US 287 to provide a continuous facility between Boulder and Erie.	\$ 2,300	0%	\$ 2,300
11 East County Line Rd Shoulders – Pike to Niwot Road Provide buffered shoulders from St Vrain Creek to Oxford Road and 5-foot shoulders from Oxford to Niwot Road. Roundabouts at Oxford, WCR 16.5 and Niwot Road.	\$ 4,300	50%	\$ 2,150
12 79th Street Shoulders – Hwy 52 to Lookout Road Reconstruct road to add 4' shoulder in each direction between Lookout Road and Highway 52.	\$ 1,900	0%	\$ 1,900
13 East County Line Rd Safety & Resiliency – Hwy 52 to Coal Creek (Erie) Replace two bridges over Coal Creek and reconstruct two miles of County Line Road in the Town of Erie to improve safety and resiliency against large flood events.	\$ 8,200	80%	\$ 1,650
14 Vision Zero Program Implementation Program Funding to implement ongoing safety improvement recommendations from the County's Vision Zero Action Plan.	\$ 750	0%	\$ 750
15 McCaslin / Marshall Intersection Safety Improvements (Superior) Assist town with bicycle and pedestrian safety improvements at signalized intersection.	\$ 1,000	90%	\$ 100

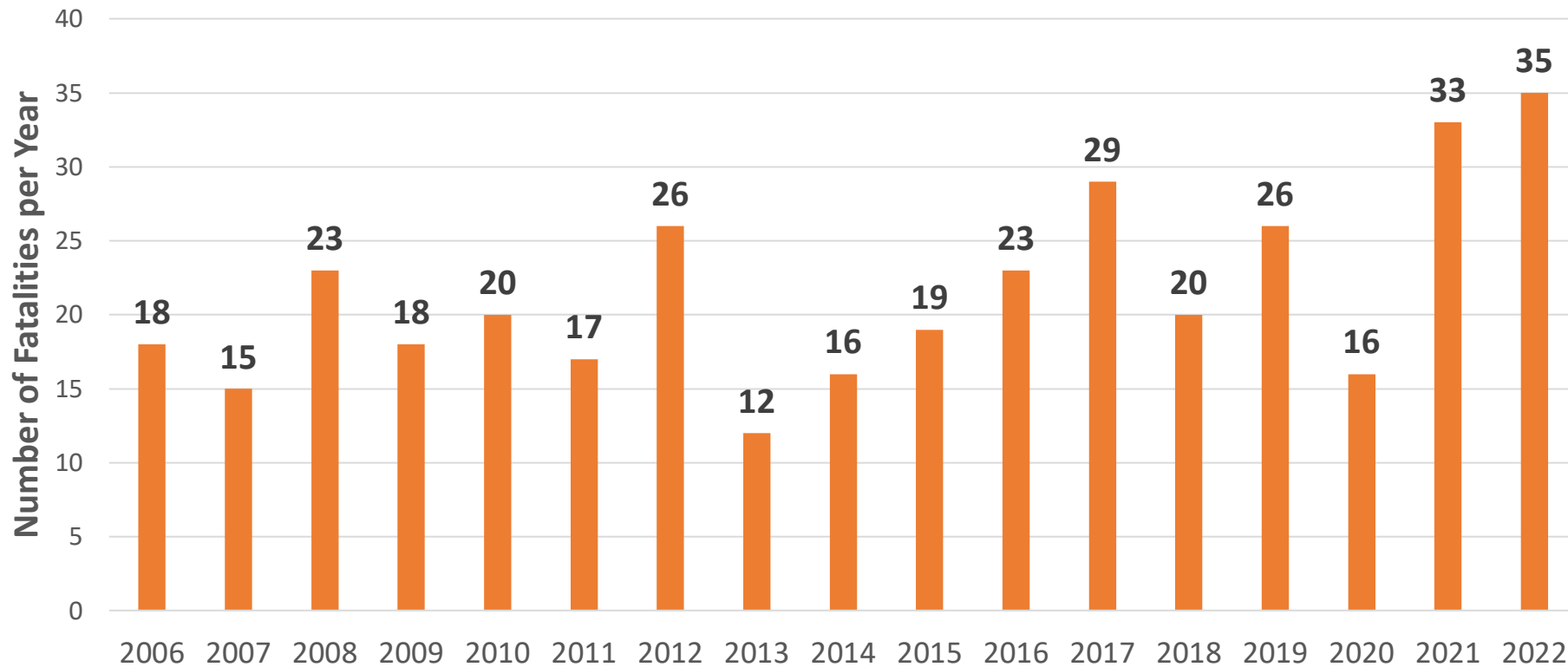
Boulder County Transportation Sales Tax Program List of Proposed Projects with Project Descriptions			
	Project Cost	Lev.	Sales Tax
(106,000) (106,000)			
REGIONAL CORRIDORS			
16 Colorado 119 Bus Rapid Transit and Commuter Bikeway Local funding to incentivize partial implementation of new bus rapid transit, multiuse path / bikeway and intersection safety improvements along CO 119 from Boulder to Longmont. Estimated cost of all improvements is \$388 million.	\$ 106,000	95%	\$ 5,300
17 Colorado 7 Bus Rapid Transit, Commuter Bikeways and Intersection Safety Local funding to incentivize partial implementation of new bus rapid transit, multiuse path / bikeway and intersection safety improvements along CO 7 from Boulder to Broomfield. Estimated cost of all improvements is \$435 million.	\$ 20,000	90%	\$ 2,000
18 Colorado 42 Multimodal Corridor and Safety Improvements Local funding to assist with implementation of multimodal improvements along the CO 42 corridor, including new path between Hecla and Short. Estimated cost of all improvements is \$136 million.	\$ 20,000	90%	\$ 2,000
19 US 287 Bus Rapid Transit, Intersection Safety and Commuter Bikeway Local funding to incentivize partial implementation of new bus rapid transit, multiuse path / bikeway and intersection safety improvements along US 287 from Boulder to Longmont. Estimated cost of all improvements is \$560 million.	\$ 10,000	90%	\$ 1,000
20 South Boulder Road Planning Study - Lafayette to Boulder Planning and Environmental Linkages (PEL) study to identify recommendations for Bus Rapid Transit, Commuter Bikeway, roadway system management improvements, and safety improvements.	\$ 1,000	50%	\$ 500
REGIONAL TRAILS & BIKEWAY PROJECTS			
21 Boulder-to-Erie Regional Trail (BERT) Trail between Erie and Boulder within or near the old UP rail corridor currently owned by RTD.	\$ 9,500	60%	\$ 3,800
22 North Foothills / US 36 Multiuse Path / Bikeway New multiuse path / bikeway along the US36 corridor north of Boulder connecting Boulder to Highway 66 and Lyons.	\$ 30,000	90%	\$ 3,000
23 Longmont-to-Boulder Trail – Jay Road / Spine Road Multiuse Path New multiuse path along Jay Road and Spine Road to complete a missing link in the Longmont-to-Boulder Regional Trail between Boulder and Gunbarrel.	\$ 2,400	25%	\$ 1,800
24 75th Street Trail Connection – Boulder-to-Erie regional trail to Jay Road Trail connection along 75th Street linking Gunbarrel community with the Heatherwood-Walden Trail, Walden Ponds and Sawhill Ponds trails.	\$ 1,700	0%	\$ 1,700
25 St. Vrain Greenway Trail – Longmont to Lyons Construct missing links in the St Vrain Greenway regional trail between Longmont and Lyons as per the 2004 Master Plan.	\$ 7,800	80%	\$ 1,550
26 US36 Bikeway Connections (Superior & Louisville) Construct new multiuse path connections under McCaslin Boulevard at Tract H, a new path along McCaslin at Caliente, and a new bikeway connection to Dyer Road.	\$ 6,000	75%	\$ 1,500
27 County Road 130 Trail to Nederland High School Soft surface trail connection between Nederland and the Nederland Middle-Senior High School along CR130. Also accesses backside of West Magnolia USFS trail system.	\$ 2,000	50%	\$ 1,000
28 Boulder Canyon Trail Enhancements Provide aesthetic treatments to CDOT-constructed trail to improve functionality, safety and use. Includes construction of a new pedestrian bridge to city trailhead.	\$ 1,200	25%	\$ 900

Boulder County Transportation Sales Tax Program List of Proposed Projects with Project Descriptions			
	Project Cost	Lev.	Sales Tax
(550) (550)			
PROJECT LIST (CONT.)			
29 Highway 66 Bikeway – Lyons to 95th Street Bikeway connections parallel to Highway 66. Will provide links between future frontage roads by new construction / road improvement projects.	\$ 5,400	90%	\$ 550
30 Lafayette-to-Boulder Bike/Ped Connection Plan Planning study for future east-west bicycle and pedestrian connection between Lafayette and Boulder.	\$ 600	50%	\$ 300
LOCAL TRANSIT SERVICES & SUPPORT PROJECTS			
31 East County On-Demand Transit Service (Lafayette, Erie, Louisville, Superior) Fare-free on-demand transit service for southeast boulder county communities.	\$ 9,800	50%	\$ 4,900
32 Fare-free Lafayette Fare-free on-demand transit service in Lafayette area.	\$ 7,700	50%	\$ 3,850
33 FLEX service – Fort Collins to Boulder via Longmont Inter-agency transit service between Ft Collins and Boulder.	\$ 18,800	80%	\$ 3,750
34 Gunbarrel On-Demand Transit Service On-demand transit service in the Gunbarrel area.	\$ 7,500	90%	\$ 750
35 Lyons to Boulder Peak-Period Transit Partnership with RTD to provide peak-hour service between Lyons and Boulder.	\$ 1,500	50%	\$ 750
36 Lyons to Longmont On-Demand Transit Service Limited/on-demand service to and from Lyons to Longmont.	\$ 1,500	50%	\$ 750
37 Gold Hill Climb Fare-free commuter transit service between Gold Hill, Salina and Boulder.	\$ 1,500	50%	\$ 750
38 Mountain Area On-Demand Transit Service On-demand transit service for mountain communities.	\$ 1,200	50%	\$ 600
TRANSPORTATION MOBILITY PROGRAMS			
39 Community Transportation Partnerships Matching grant support for community-based mobility programs to leverage federal funding sources for community transportation service providers to improve accessibility for vulnerable and underserved populations, as per the County's human services plan.	\$ 13,500	80%	\$ 2,700
40 Transit Education and Equitable TDM Support Transit pass support, travel training and education services for large employers, school districts and housing authority clients, as per County's coordinated human services plan.	\$ 1,900	0%	\$ 1,900
41 Active Transportation Education Programs School-based multimodal and active transportation education. Includes safe-routes to school programs and public engagement on equitable transportation outcomes, as per the County's coordinated human services plan.	\$ 800	0%	\$ 800
<i>Total Mobility / Safety / Resiliency (15 projects, 55%)</i> \$ 99,850 \$ 59,200 <i>Regional Corridors (5 projects, 10%)</i> \$ 157,000 \$ 10,800 <i>Regional Trails & Bikeways (10 projects, 15%)</i> \$ 66,600 \$ 16,100 <i>Local Transit Support (8 projects, 15%)</i> \$ 49,500 \$ 16,100 <i>Mobility Programs (3 projects, 5%)</i> \$ 16,200 \$ 5,400 <i>Program Administration (11%)</i> \$ 13,300 \$ 13,300			
TOTAL PROGRAM (41 PROJECTS) \$ 402,450 70% \$ 120,900			

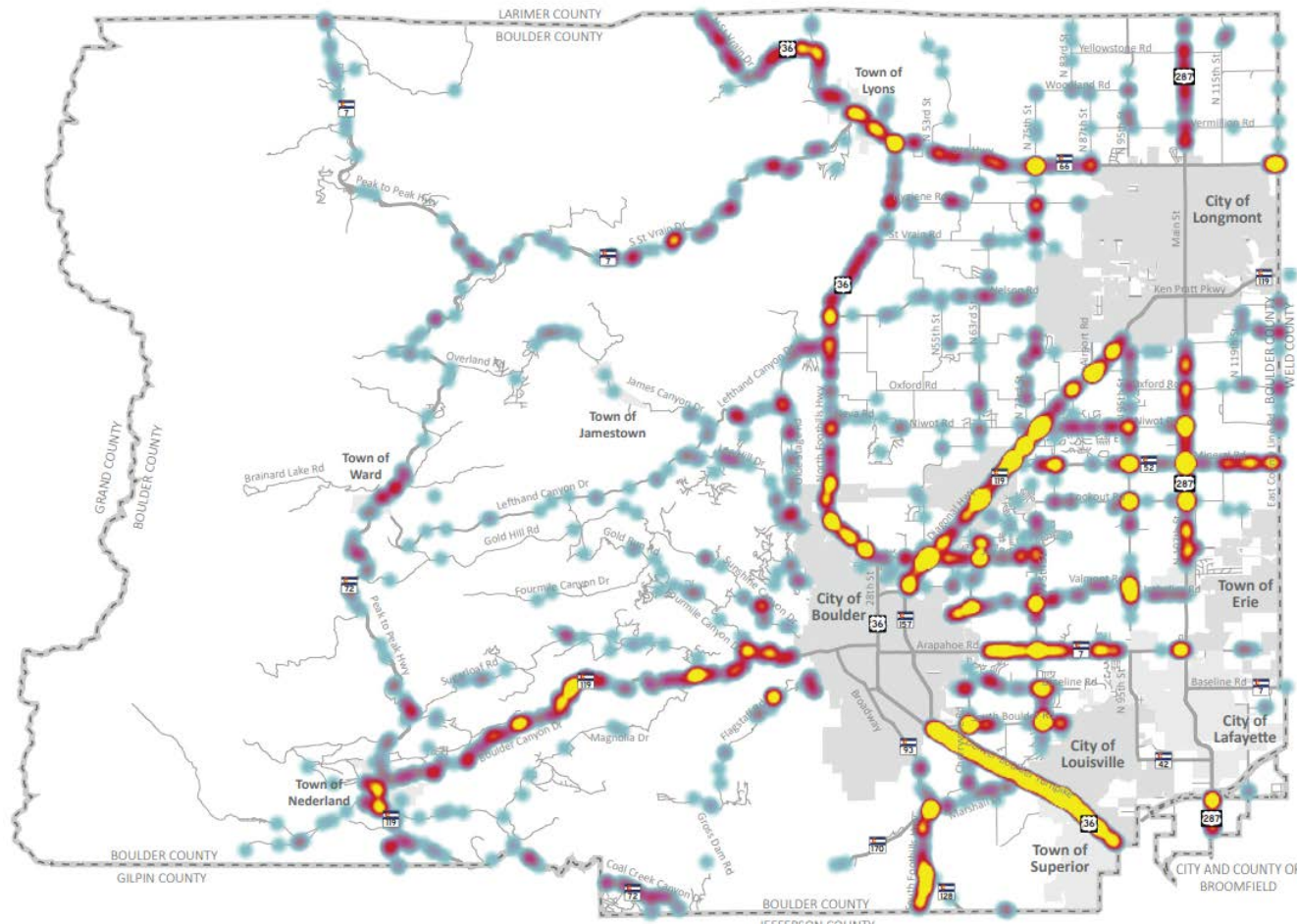


Evaluation

Traffic Crash Fatalities in Boulder County, 2006-2022



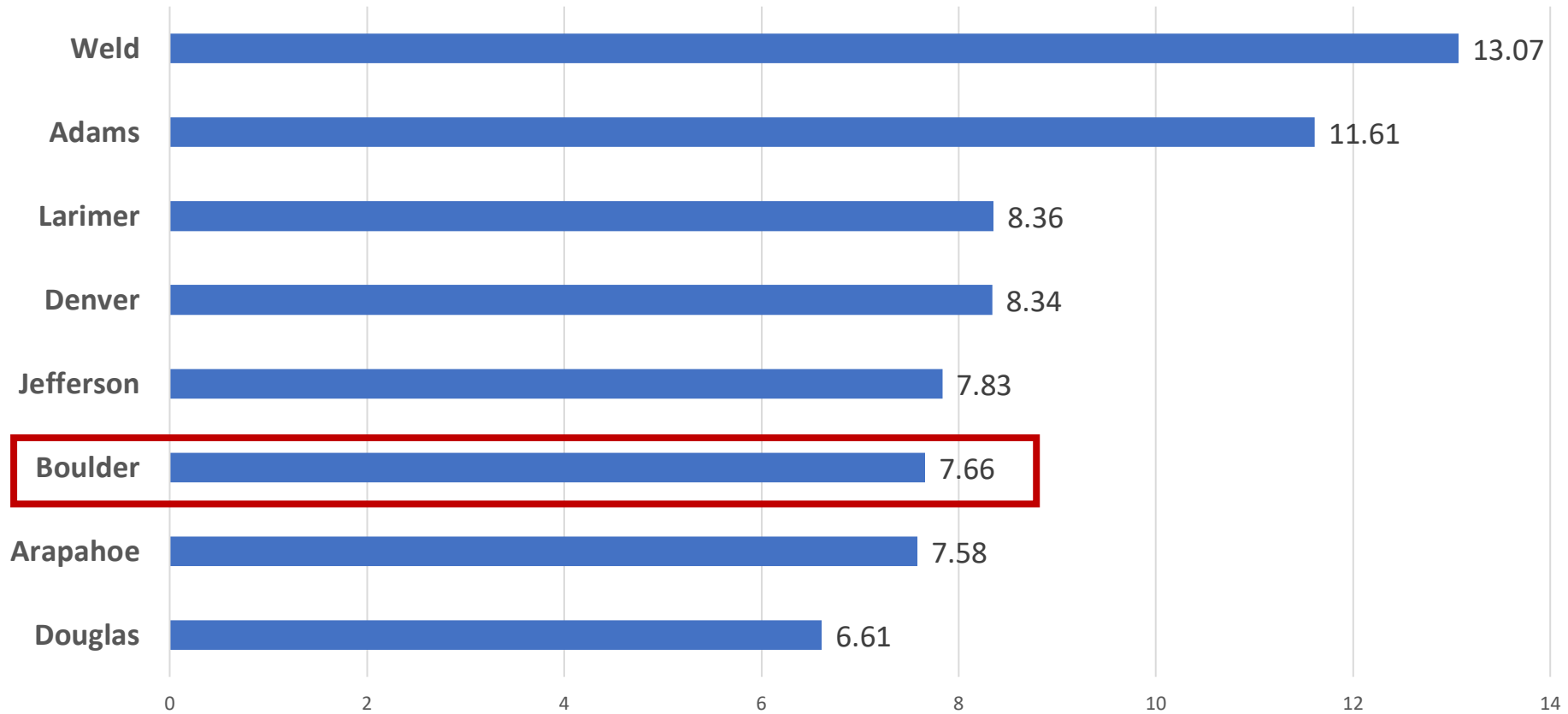
Evaluation



- Heatmap of all injury or fatal crashes in unincorporated Boulder County & the mountain towns, 2009-2018

Evaluation

Traffic Crash Fatalities per 100,000 Population



Evaluation

Overview of Major Crash Trends

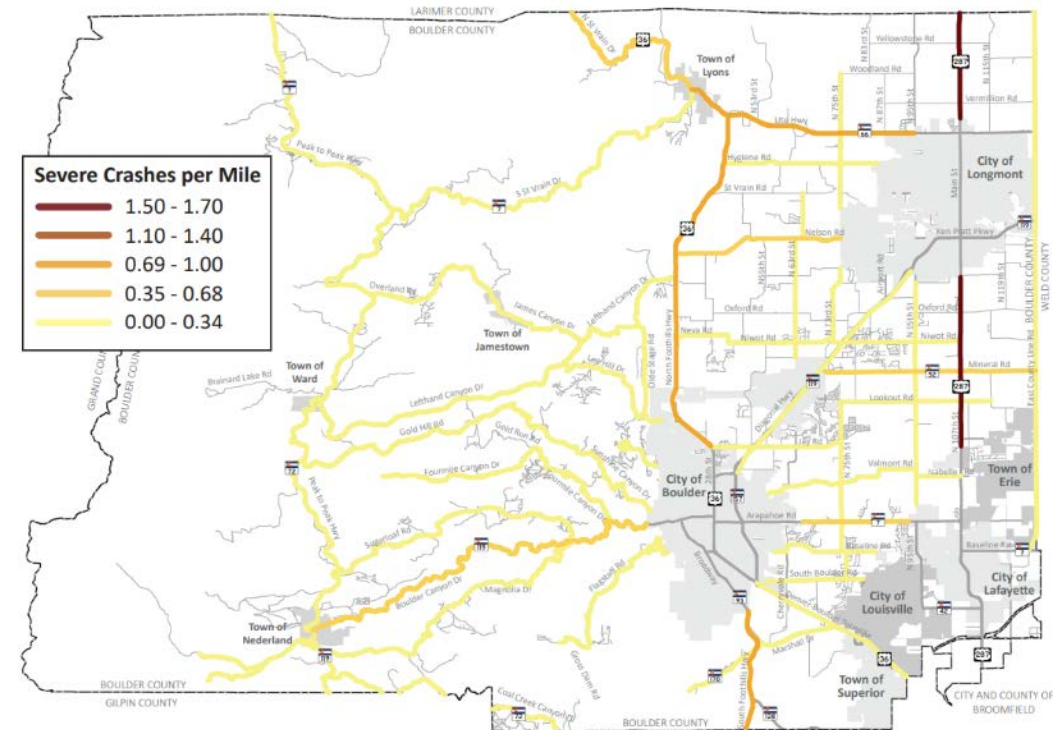
- Centerline Crossing on US 287
- Bicycle- Motor Vehicle
 - Bicyclist Hit from Behind
 - Bicyclist Hit by Turning Motor Vehicle at Intersections
- Broadside & Approach Turn at Intersections
- Single Vehicle
 - Impairment-Related
 - Motorcycle

Centerline Crossing Crashes on US 287

- US 287 Safety Study
- HSIP Grant Application for Median Barrier



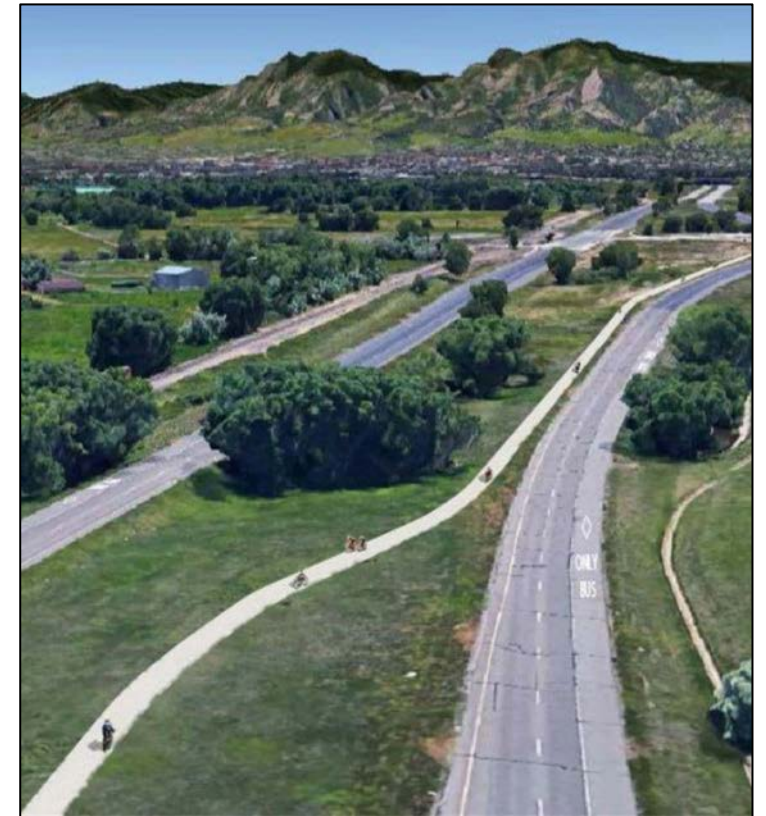
Severe Head On/Sideswipe Opposite Direction Crashes in Unincorporated Boulder County & Mountain Towns, 2009-2018, by Corridor



Bicycle-Motor Vehicle Crashes

Bicyclist Hit from Behind

1. Space in the Roadway: Paved Shoulders, Buffered Shoulders, New Bike Lanes
 - 71st St
 - 120th St
 - South Boulder Rd in Lafayette
2. Separate Facilities on CDOT Highways
 - US 36 Bikeway
 - 119 Bikeway
 - US 36 / North Foothills Bikeway



Bicycle-Motor Vehicle Crashes

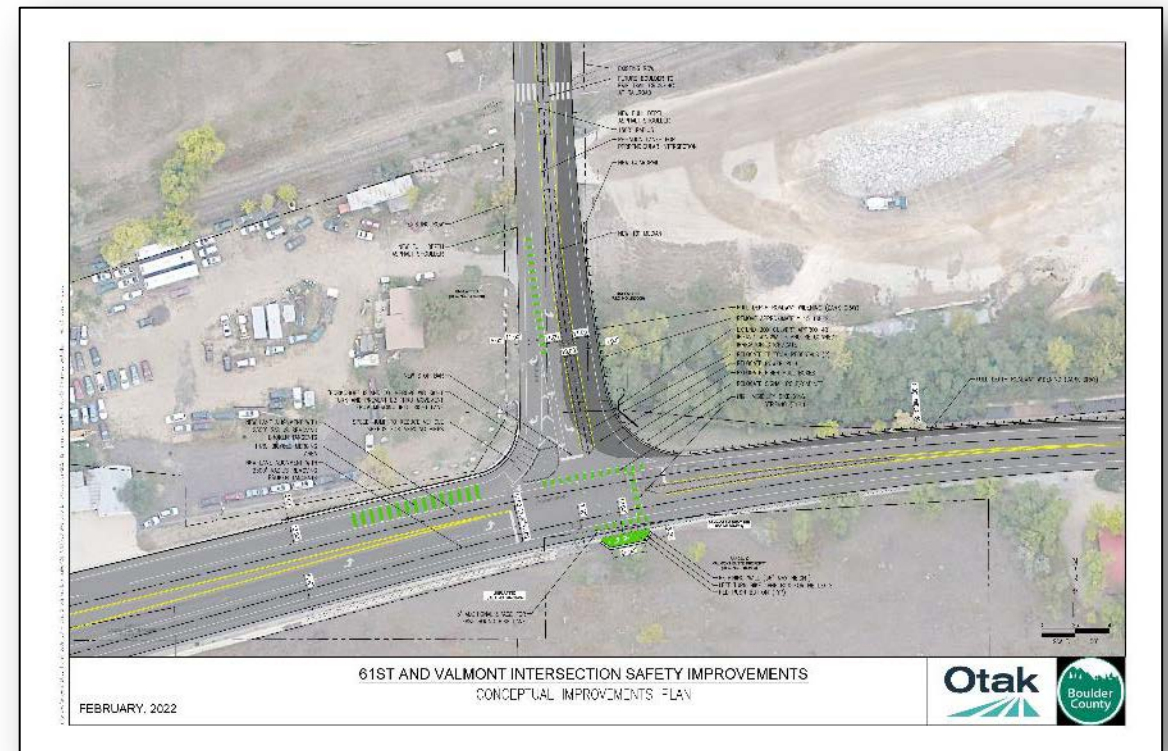
Bicyclist Hit by Turning Motor Vehicle at Intersections

1. Highlighting Conflict Zones: Skip striping in intersections and/or green pavement markings

- Jay Rd
- US 287 & Isabelle
- 61st & Valmont

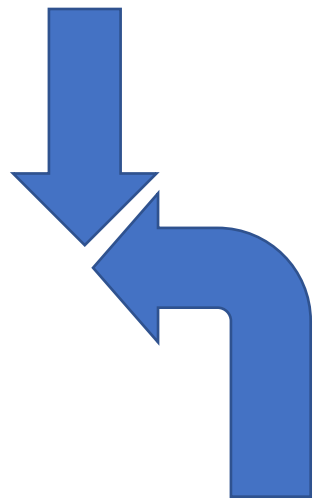
2. Separate Facility for Bicyclists

- US 36/ North Foothills

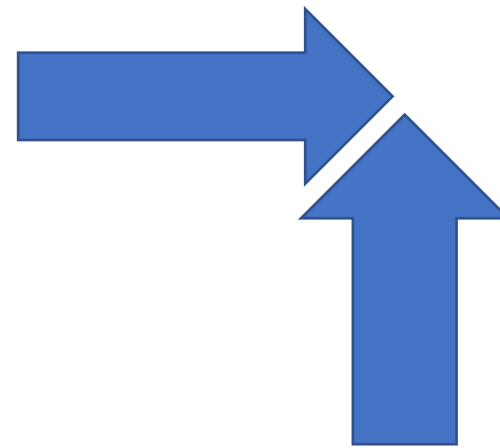


Broadside & Approach Turn Crashes at Intersections

- Approach Turn



- Broadside (“T-Bone”)



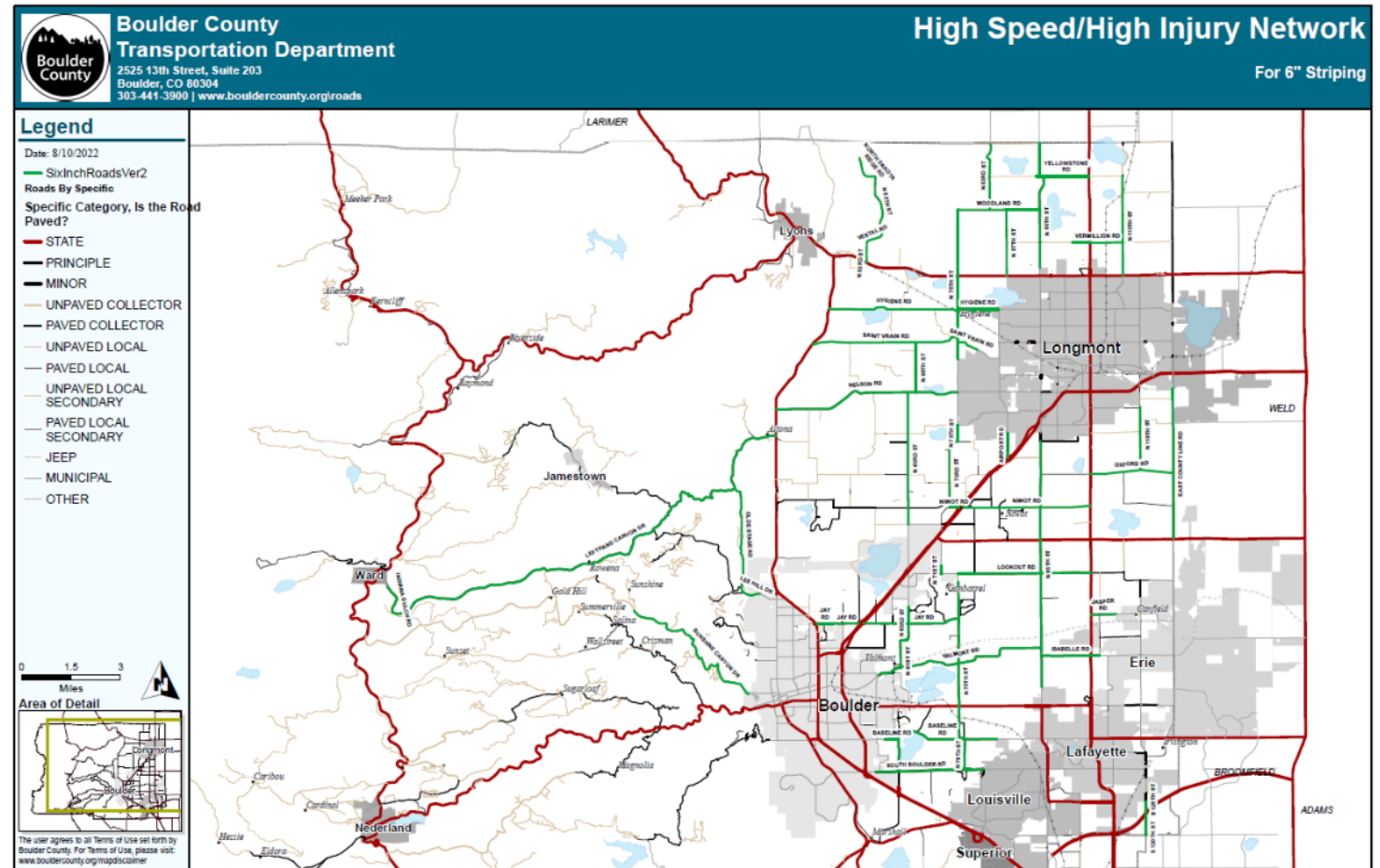
Broadside & Approach Turn Crashes at Intersections

- US 287 & Isabelle Rd
- 95th St & Lookout Rd
- CO 119



Single vehicle crashes

- 6" Edgeline Striping on County Roads



Education



Vision Zero Community Partnership Meeting

October 18th, 2022



Enforcement

- Boulder County Sheriff's Office
- Colorado State Patrol



Traffic Safety Program

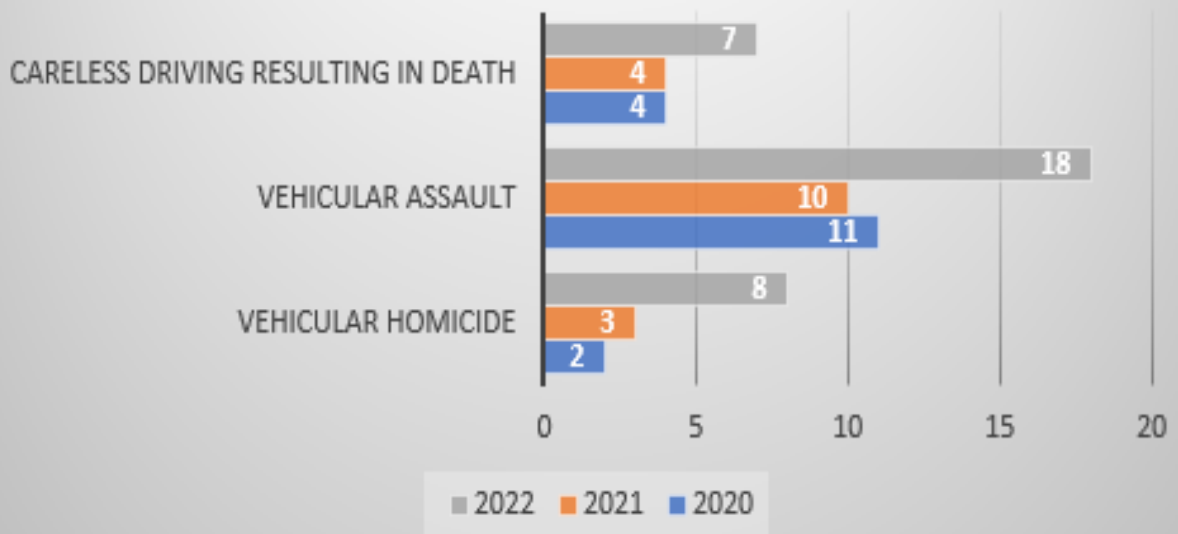
Office of the District Attorney
20th Judicial District | Boulder County

Christian Gardner-Wood, Division Chief
Community Protection Division

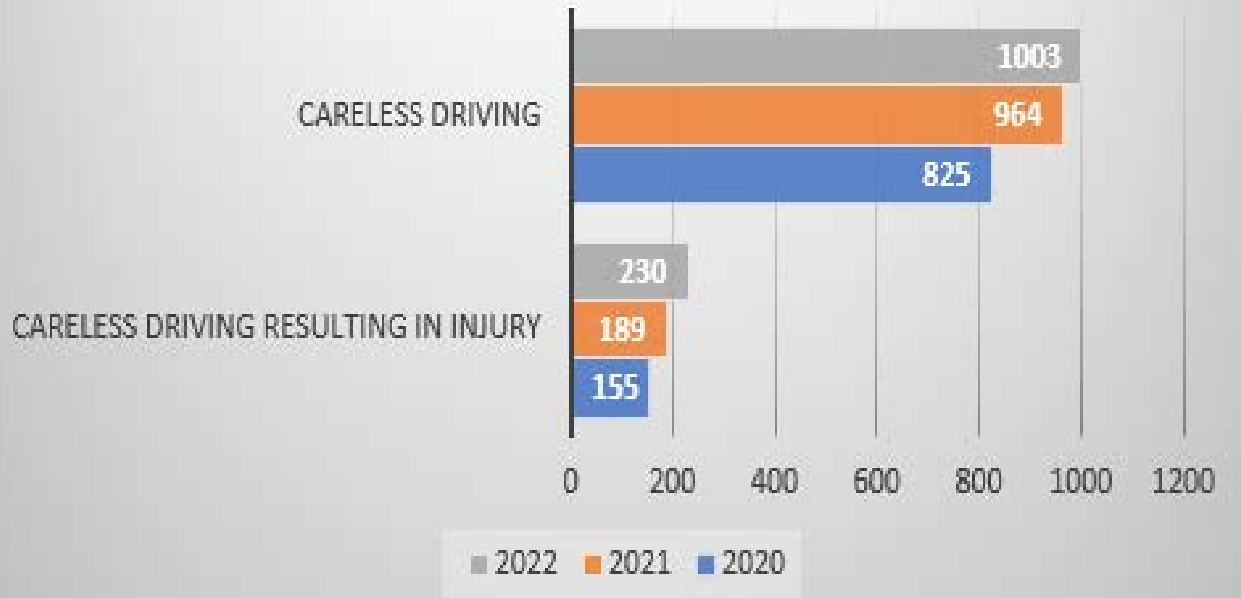




Vehicular Homicide, Vehicular Assault, and Careless Resulting in Death



Careless Driving and Careless Resulting in Injury



TRAFFIC SAFETY PROGRAM

PROBLEM: We continue to see far too many **TRAFFIC CRASHES** causing serious bodily injury and **VEHICULAR FATALITIES**, many with speeding as a significant factor. We revamped our traffic plea-bargains to address equity concerns and to increase accountability and education.

GOAL: Decrease speeding and other dangerous driving behavior through the addition of **RESTORATIVE JUSTICE PRACTICES** and increased **EDUCATION**, especially for young people, to help community members develop a better **AWARENESS** and **UNDERSTANDING** of the risks and harms of speeding to increase **COMMUNITY SAFETY** and **PREVENT FUTURE OFFENSES**. Additionally, this initiative seeks to address financial inequities and expands access to public service and education without increased costs to participants.

PROGRAM: The Traffic Safety Program offers a DMV-point reduction and minimal fines for defendants who plead guilty to speeding and participate. It includes a **RESTORATIVE CONVERSATION** and **TRAFFIC SAFETY CLASSES** and/or **COMMUNITY SERVICE**. The **RESTORATIVE CONVERSATION** is a 1:1 conversation that emphasizes the impacts of speeding and distracted driving on the community and asks people to reflect on what happened, what they have learned, who may be affected by their behavior, and steps to repair harm and change behavior. Failure to complete results in a Motion for Contempt of Court.



Legislative Updates

Boulder County's 2023 State Legislative Agenda:

Support state, regional, and local government efforts to improve safety on roadways to achieve vision zero safety goals, including for people using all modes of travel, especially vulnerable roadway users such as pedestrians and cyclists.

2023 Legislative Session:

- Automated Vehicle Identification Systems (AVIS) Bill



DRCOG Regional Vision Zero

DRCOG's Vision Zero Pledge:

<https://drcog.org/regional-vision-zero-pledge>

DRCOG Vision Zero Video:

<https://youtu.be/M4MuD14q7k0>



For more information

Boulder County's
Vision Zero Website:

[bouldercounty.gov/transportation/
multimodal/vision-zero](https://bouldercounty.gov/transportation/multimodal/vision-zero)



Questions for the BOCC

- **Does the BOCC support the current TMP Vision Zero safety goal and performance metric?**
 - TMP Goal: Ensure Safety for All Modes; Provide for transportation system development and operations that result in safe and secure travel by all modes and that enable prompt and effective emergency response
 - TMP Performance metric: Eliminate serious injuries and fatal traffic crashes in unincorporated Boulder County by 2035
- **Do you have questions or would you like more information on the county's Vision Zero safety initiatives, including Evaluation, Engineering, Enforcement, and Legislative topics?**
- **What suggestions would you like to see added to the county's work to achieve Vision Zero?**