Executive Committee



Steve Conklin, Chair Wynne Shaw, Vice Chair Jeff Baker, Secretary Colleen Whitlow, Treasurer Kevin Flynn, Immediate Past Chair Douglas W. Rex, Executive Director

AGENDA REGIONAL TRANSPORTATION COMMITTEE Tuesday, November 14, 2023 8:30 a.m. 1st Floor Aspen & Birch Conference Room *In-Person Meeting with Virtual Option for Public (via Zoom)

- 1. Call to Order
- 2. Public Comment
- 3. October 17, 2023 Regional Transportation Committee Meeting Summary (Attachment A)

INFORMATIONAL BRIEFINGS

- 4. Regional Transportation Committee Orientation (Attachment B) Jacob Riger, Manager, Multimodal Transportation Planning
- 5. 2022 Annual Report on Roadway Traffic Congestion in the Denver Region (Attachment C) Max Monk, Assistant Planner
- 2023 Active Modes Crash Report (Attachment D) Aaron Villere, Senior Active Transportation Planner

ADMINISTRATIVE ITEMS

- 7. Member Comment/Other Matters
 - Colorado Department of Transportation Report
 - Regional Transportation District Report
 - Regional Air Quality Council Report
- 8. Next Meeting December 19, 2023
- 9. Adjournment

Attendees can request additional aids or services, such as interpretation or assistive listening devices, by calling 303-480-6701 or emailing <u>ckennedy@drcog.org</u> Please notify DRCOG at least 48 hours in advance so we can coordinate your request.

ATTACH A

ATTACHMENT A

MEETING SUMMARY REGIONAL TRANSPORTATION COMMITTEE Tuesday, October 17, 2023 In-Person Meeting with Virtual Option for Public (via Zoom)

MEMBERS AND ALTERNATES PRESENT:

Darius Pakbaz (Alternate)	Colorado Department of Transportation
Karen Stuart	Colorado Department of Transportation
Yessica Holguin	Colorado Department of Transportation
Randy Weil	Denver Regional Council of Governments
Doug Rex	Denver Regional Council of Governments
Austin Ward	Denver Regional Council of Governments
Wynne Shaw (Vice Chair)	Denver Regional Council of Governments
Steve Conklin (Chair)	Denver Regional Council of Governments
Debra Johnson	Regional Transportation District
Brian Welch (Alternate)	Regional Transportation District
Kate Williams	Regional Transportation District
Vince Buzek	Regional Transportation District
Jeff Kullman	Regional Transportation District
Mike Silverstein	Regional Air Quality Council

ADDITIONAL ALTERNATES (OR MEMBERS AND ALTERNATES ATTENDING VIRTUALLY) PRESENT:

Michael Guzman Eula Adams (Alternate) Deborah Mulvey Ron Papsdorf (Alternate) Regional Transportation District Colorado Department of Transportation Denver Regional Council of Governments Denver Regional Council of Governments

Public: Miriam Aranoff, Jack Kroll, Classic Wagner, Eugene Howard

DRCOG Staff: Cam Kennedy, Brad Williams, Todd Cottrell, Aaron Villere, Alvan-Bidal Sanchez, Lauren Kirgis, Max Monk, Erik Braaten, Emily Lindsey, Jacob Riger, Greg MacKinnon, Steve Cook, Sang Gu Lee, Kalie Fallon, Pavlo Krokidis, Nora Kern, Ala Alnawaiseh, Josh Schwenk

<u>Call to Order</u> Chair Steve Conklin called the meeting to order at 8:30 a.m.

Public Comment There was no public comment.

Summary of September 19, 2023 Meeting The summary was accepted.

ACTION ITEMS

Transportation Improvement Program Policy Amendments

Josh Schwenk, Senior Planner, explained that the transportation planning process allows for Board-approved amendments to the current Transportation Improvement Program on

Regional Transportation Committee Summary October 17, 2023 Page 2

an as-needed basis. Typically, these amendments involve the addition or deletion of projects, or adjustments to existing projects and do not impact funding for other projects in the Transportation Improvement Program.

The amendments consolidate funding associated with the Colorado Highway 119 improvements into three Transportation Improvement Program projects:

- 1. Bus Rapid Transit elements within Boulder and Longmont led by the Regional Transportation District
- 2. Bikeway design led by Boulder County
- 3. Operational improvements, Bus Rapid Transit elements, and bikeway construction along the Colorado Highway 119 Diagonal Highway between Boulder and Longmont led by the Colorado Department of Transportation Region 4.

The proposed amendments to the *Fiscal Year 2024-2027 Transportation Improvement Program* have been found to conform with the State Implementation Plan for Air Quality.

Mr. Randy Weil moved to recommend the Board of Directors approve the attached project amendments to the *FY 2024-2027 Transportation Improvement Program*. The motion was seconded and passed unanimously.

Regional Transportation Operations and Technology Project Selection

Greg MacKinnon, Program Manager Transportation Operations, explained that the purpose of the set-aside is to fund the implementation of the *Regional Transportation Operations & Technology Strategic Plan*, which guides the region's near-term efforts to deploy technology tools and coordinated system procedures for the multimodal transportation system. In April 2023, the Denver Regional Council of Governments issued a call for letters of intent with full applications due July 7, 2023. 19 applications with a total federal request of \$19,271,778 were considered by the project review panel. The total recommended allocation is \$10,847,120 over the next three fiscal years. The unallocated funds are reserved for the next call-for-projects, which will be advanced to spring 2026 to allocate the remaining available funds.

Ms. Wynne Shaw moved to recommend the Board of Directors approve project allocations through the FY 2024-2027 Regional Transportation Operations & Technology Transportation Improvement Program Set-Aside and administratively modify the Transportation Improvement Program. The motion was seconded and passed unanimously.

Corridor Set Aside Selection

Nora Kern, Subarea and Project Planning Program Manager discussed that the Denver Regional Council of Governments hosted a call for letters of interest for the first two years of funding for the Corridor Planning Set Aside in July and August 2023. Four letters of interest were submitted for three different corridors. A selection committee composed of staff from the Denver Regional Council of Governments, Regional Transportation District, Colorado Department of Transportation Region 1, and Colorado Department of Transportation Region 4 reviewed and scored the four letters of interest. Regional Transportation Committee Summary October 17, 2023 Page 3

Ms. Jessica Myklebust inquired about who solicits consultant support. Ms. Kern replied that the Denver Regional Council of Governments would lead procurement and consultant management, but interested stakeholders could serve on a selection committee to help select the consultant.

Ms. Myklebust also asked about the timeframe for the completion of the study. Ms. Kern replied that currently, the timeframe is flexible, potentially 12-18 months for the study.

Chair Conklin inquired as to whether the corridors work will impede local work currently being done and Ms. Kern confirmed it will not, stating that these corridors are focused on identifying gaps and building a regional vision that connects all the different jurisdictions together.

Chair Conklin asked about the equity index and what goes into it. Ms. Kern replied that it looks at equity across the region by compiling results from three different scores – mobility challenges, economic factors, race and national origin, and merges those results together to present a deeper nuanced perspective of equity across the region.

Ms. Karen Stuart moved to recommend the Board of Directors approve funding the Sheridan Boulevard Vision Zero Corridor study and the East Colfax Bus Rapid Transit Extension study through the first two years of the Corridor Planning Transportation Improvement Program Set Aside. The motion was seconded and passed unanimously.

INFORMATIONAL BRIEFINGS

Regional Transportation Plan Cycle Amendments

Alvan-Bidal Sanchez, Regional Transportation Planning Program Manager, presented information about the Regional Transportation Plan Cycle Amendments process initiated in September 2023 with a call for amendments, which closed on October 3, 2023. Saff are reviewing the requested amendments and coordinating with external partners and project sponsors to discuss any further required project details. All proposed amendments must meet federal fiscal constraint requirements, meaning there must be reasonably expected funding to implement the proposed project. The 2050 RTP as amended must also meet federal air quality conformity requirements and state transportation greenhouse gas emission reduction requirements.

ADMINISTRATIVE ITEMS

Member Comment/Other Matters

 Colorado Department of Transportation Report – Ms. Yessica Holguin stated that the Transportation Commission Workshop will occur tomorrow, with six new commissioners having joined the Transportation Commission. Ms. Stuart added that the Colorado Department of Transportation has received a record \$179 million dollars of federal redistribution this year which will be used to fund vital projects across the state. Ms. Stuart also discussed the ongoing safety enforcement pilot program, Blissway, to prevent violations of people weaving in and out of toll and managed lanes. Within three weeks of the program starting in September, over 40,000 violations were captured. Regional Transportation Committee Summary October 17, 2023 Page 4

> Ms. Stuart mentioned that regarding the train derailment in Pueblo, the area cannot be cleaned up until a determination has been made by the National Transportation Safety Board regarding what the details of and fault for the derailment. Ms. Jessica Myklebust mentioned the Federal Bus Rapid Transit project has officially begun and the first public meeting was held for the I-270 Environmental Impact Statement. Mr. Darius Pakbaz stated that the initial report of House Bill 23-1101 which relates to the TPR Boundary and Administrative Study is nearing completion and should be done next month. Once completed, it will go to the Transportation Commission for review and action in January 2024, with a legislative deadline of June 2024.

Regional Transportation District Report – Mr. Vince Buzek stated that the third annual survey for customers and community members has been conducted. Over 70% of bus and rail customers are either "satisfied" or "very satisfied" with the service they have received, which covers everything from cleanliness to safety to arrival times. From the community perspective, almost 80% of respondents were non-users or seldom users of the Regional Transportation District's buses and trains and over 84% of those respondents believe that the Regional Transportation District provides value to the region. Further,87% believe that funding for the Regional Transportation District should be "somewhat greater" or "much greater" than current levels. Mr. Buzek thanked the leadership of GM/CEO Debra Johnson over the last three years and credited her as a major contributor to the positive results from the survey.

GM/CEO Johnson thanked Mr. Buzek for his statement and replied that the results are a collective effort regarding what the Regional Transportation District has been able to accomplish in the last several years. Next week the Regional Transportation District's Legislative and Government Relations Program will go before the Regional Transportation District's Board of Directors for action. To ensure the current transit network remains in good repair, necessary work on the rail lines is continuing so the current network can remain functional and safe.

 Regional Air Quality Council Report – Mr. Mike Silverstein stated that the Air Quality Control Commission is considering the updated Regional Air Quality Council's ozone planning efforts. Innovative regulatory initiatives regarding lawn and gardening equipment and oil and gas operations are being put forward to the Air Quality Control Commission and the results would be substantial if put in place. An additional proposal in front of the Air Quality Control Commission is that 80% of new vehicles sold in Colorado would be fully electric by 2032.

Next Meeting - November 14, 2023

Adjournment

There were no additional comments from members. The meeting adjourned at 9:32 a.m.

ATTACH B

ATTACHMENT B

To: Chair and Members of the Regional Transportation Committee

From: Jacob Riger, Manager, Multimodal Transportation Planning

Meeting Date	Agenda Category	Agenda Item #
November 14, 2023	Informational Briefing	4

SUBJECT

Regional Transportation Committee Orientation

PROPOSED ACTION/RECOMMENDATIONS

N/A

ACTION BY OTHERS

N/A

SUMMARY

The Regional Transportation Committee is the Denver Regional Council of Governments' Metropolitan Planning Organization committee that assists the Board of Directors by reviewing the work of the metropolitan transportation planning process and preparing regional transportation planning policy recommendations. The metropolitan planning agreement between the Denver Regional Council of Governments, Colorado Department of Transportation, and Regional Transportation District requires that the Board of Directors and Regional Transportation Committee concur on all decisions.

The Committee's membership, responsibilities, and procedures are described in the <u>Transportation Planning Framework</u> and documented in the <u>Committee Policy</u>, <u>Guidelines and Descriptions</u>.

Staff will provide a brief orientation to the Committee about the region's metropolitan transportation process and the Committee's role in that process.

PREVIOUS DISCUSSIONS/ACTIONS

PROPOSED MOTION

N/A

ATTACHMENT

Staff presentation

ADDITIONAL INFORMATION

If you need additional information, please contact Jacob Riger, Manager, Multimodal Transportation Planning, at 303-480-6751 or <u>jriger@drcog.org</u>



Jacob Riger, AICP Manager, Multimodal Transportation Planning

Sdrcog DENVER REGIONAL COUNCIL OF GOVERNMENTS

Regional Transportation Committee Orientation



Denver Regional Council of Governments





Regional success depends on partnerships



DRCOG **is not** a **regulator**.



We provide **policy** guidance.



We identify **best practices**.

We are a

convener.





We are a bridge between partner jurisdictions and agencies.

From a regional vision to an achievable reality



Federally directed responsibilities

Federal transportation authorization acts define all aspects of federal surface transportation policy (Bipartisan Infrastructure Law/Infrastructure Investment & Jobs Act)

- the Metropolitan Planning Organization leads the regional transportation planning process in urbanized areas
- requires specific products and activities
- must consider specific projects, strategies and services in the planning process

Other federal laws and regulations also apply, including Title VI of the Civil Rights Act, National Environmental Policy Act, the Clean Air Act, Americans with Disabilities Act



State directed responsibilities

• Under State law:

- Serves as the regional planning commission
- Empowered to make and adopt regional plans
- Required to develop a twenty-year transportation plan
- Complies with greenhouse gas (GHG) reduction rule
- Must approve any fixed guideway transit system proposed by the Regional Transportation District before construction can proceed
- Reviews roadway tolling proposals for inclusion in Fiscally Constrained Regional Transportation Plan
- Has representation on the Statewide Transportation Advisory Committee





As Metropolitan Planning Organization (MPO)

Continuing, cooperative and comprehensive performancebased transportation planning process

- **Unified Planning Work Program (UPWP)**
- **Regional Transportation Plan**
- Transportation Improvement Program (TIP)
- Congestion Management Process
- Air Quality conformity
- Federal law/regulatory compliance-maintain eligibility for federal funding





- Technical assistance
- Transportation modeling
- Corridor/subarea/community planning/project support
- Scenario planning
- Local transportation plan support
- Traffic Operations Program: signal coordination
- Transportation Demand Management Program
- Regional Traffic Count Program Database





Regional transportation planning is a cooperative process

















Metro Vision Regional Transportation Plan (RTP)



Integrates with Metro Vision framework (themes, outcomes and objectives)

- forecast population, employment, travel demand and other planning assumptions
- multimodal transportation system component profiles and strategies
- **financial plan** (costs and revenues)
- community engagement, environment and other topics



Transportation Improvement Program (TIP)

- Short-term planning program with specific and dedicated funding (like a local Capital Improvement Program)
- Contains all projects with federal and state transportation funding
- Region-directed funding through competitive grants every 4 years
 - Surface Transportation Block Grant (STBG)
 - Congestion Mitigation Air Quality (CMAQ)
 - Multimodal & Mitigation Options Fund (MMOF)
 - Carbon Reduction Program (CRP)
 - Transportation Alternatives (TA)
- Handful of "set-aside" programs with more frequent calls for projects
- Adjusted often through administrative modifications and policy amendments





Metropolitan transportation organization structure



Metropolitan planning agreement requires that the Board and Regional Transportation Committee concur

Board of Directors

Voting members are local elected officials

Regional Transportation Committee (RTC)

Voting membership is:

- DRCOG five members (board members, executive directors)
- CDOT four members (commissioners, executive directors)
- RTD four members (board members, general manager)
- others three members

Transportation Advisory Committee (TAC)

Voting membership is staff/representative of:

- counties and municipalities
- CDOT
- RTD
- DRCOG
- RAQC
- Via Mobility
- "special interests" (subject matter experts)
- TIP Policy Work Group
- Agency Coordination Team / Air Quality Interagency Consultation Group

Ad hoc committees

Regional Transportation Committee authority & responsibilities

Authority

Federal statute.

2001 memo of understanding.

DRCOG Board adopts committee description.

Responsibilities

Assists the DRCOG Board in regional transportation planning.

Prepares regional transportation planning policy recommendations for action by the DRCOG Board.

- Reviews transportation
 planning processes & products
- Reviews DRCOG TAC recommendations & makes recommendations to DRCOG Board
- Provides guidance, support & "champions" (e.g. safety)





Regional Transportation Committee membership

DRCOG (5): Board Chair, Vice Chair, 2 Board designees, Executive Director **CDOT (4):** 3 metro area Transportation Commissioners, Executive Director **RTD (4):** 3 Board members, General Manager/CEO **RAQC (1):** Executive Director **Other Members (3): Representing various transportation planning-related stakeholders Chair/Vice Chair:** DRCOG Board Chair, Vice Chair Members: 17 total Quorum: 12 members, including at least 2 each from DRCOG, CDOT, RTD **Voting:** 12 votes to carry an action



Continuing, Emerging & Future Issues and Challenges

- Growing population and employment
- Aging population

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- Equity and inclusion
- Housing and transportation
 - Transportation technology
- Transit system optimization/future of mobility
 - Mobility as a service
- Greenhouse gas emissions/air

quality

- Complete streets & multimodal safety
- Micromobility
- Future of TDM and telework 2020 census and TMA/UZA boundaries

Funding limitations





THANK YOU QUESTIONS?

Jacob Riger, AICP Manager, Multimodal Transportation Planning jriger@drcog.org 303-480-6751

ATTACH C

ATTACHMENT C

To: Chair and Members of the Regional Transportation Committee

From: Max Monk, Assistant Planner 303-480-6731 or Mmonk@drcog.org

Meeting Date	Agenda Category	Agenda Item #
November 14, 2023	Informational Briefing	5

SUBJECT

2022 Annual Report on Roadway Traffic Congestion in the Denver Region

PROPOSED ACTION/RECOMMENDATIONS

N/A

ACTION BY OTHERS

N/A

SUMMARY

The United States Department of Transportation requires all metropolitan planning organizations serving large populations to undertake a Congestion Management Process to monitor traffic congestion in the region. The Denver Regional Council of Governments conforms to this requirement through a process with two components: the calculation of congestion measurements for roadways in the region and the presentation of data within an annual report on traffic congestion. This process began in 2006.

Staff will provide an informational presentation of the 2022 Annual Report on Roadway *Traffic Congestion in the Denver Region*. This year's report addresses the following topics:

- Continued impacts of the COVID-19 pandemic on travel behavior
- Vehicle miles traveled
- Transit and shared micromobility ridership
- Congestion projections for 2050

A printed copy of the report will be made available at the meeting.

PREVIOUS DISCUSSIONS/ACTIONS N/A

PROPOSED MOTION

ATTACHMENTS

- 1. 2022 Annual Report on Roadway Traffic Congestion in the Denver Region
- 2. Staff presentation

ADDITIONAL INFORMATION

If you need additional information, please contact Max Monk, Assistant Planner, at (303) 480-6731 or <u>mmonk@drcog.org</u>; or Robert Spotts, Mobility Analytics Program Manager, at (303) 480-5626 or <u>rspotts@drcog.org</u>.



2022 Annual Report on Traffic Congestion in the Denver Region

Robert Spotts, Mobility Analytics Program Manager

Max Monk, Assistant Planner

November 2023

Congestion Management Process



Overview of the congestion management process

- A **federally-required process** to monitor the evolution of congestion in the region
- Components of DRCOG's process
 - Annual Report on Roadway Traffic Congestion in the Denver Region
 - Database of roadway attributes, traffic counts, and crash incidents
 - Multimodal data metrics

Agenda

1. 2022 trends and observations

- a) Vehicle miles traveled
- b) Transit ridership
- c) Shared micromobility usage
- 2. 2050 congestion projections
- 3. Shifting dynamics of commute corridors
- 4. Updates in the world of congestion



2022 Annual Report on Roadway Traffic Congestion in the Denver Region

November 2023



2022 Trends and Observations



Vehicle Miles Traveled (VMT)



Source: Denver Regional Council of Governments

Transit ridership



Shared Micromobility Usage



Source: Ride Report

Where freeway congestion is most severe





2050 Congestion Projections


2050 congestion projections

 Vehicle miles traveled per capita is projected to grow to 27 miles per day (compared to our MetroVision goal of 23 miles per day)

The cost of congestion in the region is expected to increase by 67% between 2022 and 2050



2050 congestion projections



12



Shifting Dynamics in Commuting

Overview of analysis

 Telework became a public health necessity during the pandemic

- Telework remains more frequent following the influence of the pandemic, especially so for office commuters
- "Have the dynamics on historic office commute corridors shifted?"
- Examination of travel time and traffic volume data before the pandemic and in 2022

Selected corridors



Morning commute from Lakewood to Denver



- Near 2019 traffic levels when considering all time periods
- 17% fewer vehicles during the a.m. peak
- Telecommuting and flexible schedules are a key explanation for this decrease

Mid-Aurora to Denver International Airport





- Denver International Airport had a record number of passengers in 2022
- 2019 traffic levels were surpassed during the busier travel months in 2022
- Between 2019 and 2022 the area experienced a 20% increase in jobs and a 6% increase in housing units
- Traffic along this corridor is expected to grow as new housing and jobs become available

Highlands Ranch to the Denver Tech Center



- Fewer trips than 2019 across all time periods
- 13% decrease in travel time and traffic delay along this corridor
- Some combination of telework and the completion of the C-470 managed lane would explain this shift



Updates in the World of Congestion

Updates in the world of congestion

- Discussion of communication between smartphones and traffic signals in Dallas
- **Production of a "digital twin"** modeling congestion live in Chattanooga
- Implementation of congestion pricing for streets south of 60th Street in New York City

Smarter traffic signaling in Dallas

- Smartphones network with each other and know where congestion exists
- Dallas is considering upgrading their traffic signals to tap into this network
- Data are expanding exponentially and hold potential for more efficient traffic management

"Digital Twin" traffic modeling in Chattanooga

- Through machine learning and real-time data, researchers from NREL and the DOE created a micromodel mirroring Chattanooga traffic conditions with precision
- The "digital twin" enabled planners to understand underlying causes of congestion and pinpoint specific areas of improvement
- For the analysis area, researchers observed a **32%** reduction in delay and a **16%** reduction in fuel spent idling

Congestion pricing in New York City

- Applies to all personal and commercial vehicles on streets below 60th Street in Manhattan
- Tolls will range from a low of \$5/driver overnight and a high of \$23/driver during peak periods
- Low-income drivers get a 25% discount – after ten trips, this increases to 50%
- Revenue generated from the tolls largely goes to the funding of MTA



Source: New York Metropolitan Transportation Council's Hub Bound Travel report

Bloomberg



Conclusion

Conclusion

- Denver Region ITS
- State household travel survey
- Transportation demand management
- Projects that facilitate travel choices to avoid congestion



Waytogo

Program of **DRCOG**







Thank you! Questions? Robert Spotts | Mobility Analytics Program Manager Max Monk | Assistant Planner MMonk@drcog.org (303) 480-6731

ATTACH D

ATTACHMENT D

To: Chair and Members of the Regional Transportation Committee

From: Aaron Villere, Senior Active Transportation Planner

Meeting Date	Agenda Category	Agenda Item #
November 14, 2023	Informational Briefing	6

SUBJECT

2023 Active Modes Crash Report

PROPOSED ACTION/RECOMMENDATIONS

N/A

ACTION BY OTHERS

N/A

SUMMARY

The 2023 Active Modes Crash Report provides a detailed analysis of bicycle- and pedestrian-involved crashes in the region between 2015 and 2019. The previous Bicycle and Pedestrian Crash Report,¹ published as an appendix to the Active Transportation Plan in 2019, assessed crashes among active mode users between 2011 and 2015.

The report provides both an analysis of crashes involving pedestrians and people bicycling and a summary of annual crash trends and detailed analysis of common causes of crashes. The report finds that:

- Between 2015 and 2019, pedestrians and bicyclists were involved in 3% of all crashes, but 22% of crashes resulting in death or severe injury.
- During the same time period, pedestrian-involved fatal and severe injury crashes increased 9% (outpacing the region's 5% population growth and 7% vehicle miles traveled growth). Bicycle-involved fatal and severe injury crashes fell 21%.
- Age and sociodemographic factors (such as economic, environmental, and demographic indicators) were found to correlate with active mode crash and injury risk.
- Most active mode crashes occurred in the urban and suburban contexts, and the majority took place on major arterial roadways.

The report explores street type contexts and pre-crash maneuvers to better understand the most common types of conflicts for both pedestrian- and bicyclist-involved crashes. These findings provide a current overview of active mode crash trends and add detail and texture to the crash type analysis conducted for the Taking Action on Regional Vision Zero plan.

Finally, because of the COVID-19 pandemic and limitations with available statewide crash data, the report concludes with a high-level overview of crash trends in the first two years of the pandemic, separate from the detailed analysis conducted for crashes between 2015 and 2019.

¹ https://drcog.org/sites/default/files/resources/ActiveTransportationPlan_BicycleandPedestrianCrashReport.pdf

Regional Transportation Committee November 14, 2023 Page 2

PREVIOUS DISCUSSIONS/ACTIONS N/A

PROPOSED MOTION

N/A

ATTACHMENTS

- 1. Staff presentation
- 2. Active Modes Crash Report

ADDITIONAL INFORMATION

If you need additional information, please contact Aaron Villere, Senior Active Transportation Planner, 303-480-5644 or <u>avillere@drcog.org</u>.



Active Modes Crash Report

Regional Transportation Committee

November 14, 2023

Aaron Villere Senior Active Transportation Planner



Active Modes Crash Report



What is the active modes crash report?

The Active Modes Crash Report uses regional crash data (from the Colorado Department of Revenue) to analyze crash trends and causes between 2015 and 2019.

Active mode users are...

- People walking, including people using mobility devices
- People bicycling
- People riding scooters

This report is an **update** to the 2019 Bicycle and Pedestrian Crash Report (2011-2015 data).

Active mode crash trends



Pedestrian crashes are increasing



Bicycle crashes are more complicated



Active mode crashes are over-represented



Speed amplifies crash severity



Speed amplifies crash severity







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Where posted speed was **35MPH** or greater, crashes were **50%** more likely to result in fatality or severe injury as at **20MPH**.



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Understanding active mode crashes



- Sex designation
- Age
- Sociodemographic factors
- Operator factors

Where did the crash occur?

- Land use context
- Location on street
- Street classification
- Intersection type
- Pre-crash maneuvers



<u>Who</u> Was Involved?

Who was involved by sex?

Men were more likely to be involved in fatal and severe injury crashes than women.

	Population				
		50%			
	Pedestrian fatal & severe injury crashes			٢	
Men			67%		Vomei
	Bicycle fatal &	severe injury cr	ashes		2
			77%		
0	0/	50/ 50	0/ 75		۵۵/
0	70 23	■ Male	Female	570 TUC	170

Men represented 67% of those involved in pedestrian fatal and severe injury crashes.

Men represented **77%** of those involved in **bicycle** fatal and severe injury crashes.

Who was involved by age?

People **over 65** were **52%** more likely than people aged **20 – 45** to have crashes result in death or severe injury.

Percent of active mode crashes resulting in a fatality or severe injury



Who was involved by sociodemographic factors?



Census tracts, highest-scoring quintile

Census tracts, lowest-scoring quintile

14

Who was involved when drugs & alcohol were suspected?

Alcohol was suspected in at least one person involved in 20% of pedestrian fatal and severe injury crashes.

Alcohol Suspected	Pedestrian- Involved	Bicycle- Involved	All Other Modes
All Crashes	11%	3%	4%
Fatal / Severe Injury Crashes	20%	6%	17%

Drugs or a	alcohol
------------	---------

increased the likelihood of fatality or severe injury among all modes and crashes.

Drugs Suspected	Pedestrian- Involved	Bicycle- Involved	All Other Modes	
All Crashes	2%	1%	1%	
Fatal / Severe Injury Crashes	4%	2%	6%	



Where Did Crashes Occur?



Pedestrian crashes by area type


Primary pedestrian crash types

41% of pedestrian intersection fatal and severe injury crashes involve **Left Turns**.

38% involve **Broadside** collisions.



Left Turn crash example

Broadside crash example

Pedestrian intersection crash locations



Bicycle crashes by area type



Bicycle intersection types



Crashes by time of day



Crashes by time of day



Crashes by time of day



Crashes by season



2020 & 2021: A new travel paradigm



2020 & 2021: A new travel paradigm







Thank you! Questions? Aaron Villere Senior Active Transportation Planner avillere@drcog.org 303-480-5644