

AGENDA
REGIONAL TRANSPORTATION COMMITTEE
Tuesday, February 15, 2022
8:30 a.m.
VIDEO/WEB CONFERENCE
Denver, CO

1. Call to Order
2. Public Comment
3. January 18, 2022 RTC Meeting Summary
(Attachment A)

ACTION ITEMS

4. Amending the FY 2022-2023 Unified Planning Work Program (UPWP)
(Attachment B) Josh Schwenk, Assistant Planner
5. FY 2022-2025 Transportation Improvement Program (TIP) Policy Amendments
(Attachment C) Josh Schwenk, Assistant Planner
6. FY 2022-2023 Transportation Demand Management (TDM) Services Set-Aside Project Funding Recommendations
(Attachment D) Nisha Mokshagundam, Way to Go Manager
7. 2022 Federal Safety Targets
(Attachment E) Alvan-Bidal Sanchez, Transportation Planner

INFORMATIONAL BRIEFING

8. 2050 Regional Transportation Plan (RTP) Amendments Update
(Attachment F) Jacob Riger, Long Range Transportation Planning Manager

ADMINISTRATIVE ITEMS

9. Member Comment/Other Matters
10. Next Meeting – March 15, 2022
11. Adjournment

ATTACH A

ATTACHMENT A

MEETING SUMMARY
REGIONAL TRANSPORTATION COMMITTEE
Tuesday, January 18, 2022
Note: Meeting held virtually via Zoom

MEMBERS PRESENT:

Karen Stuart	Colorado Department of Transportation
Don Stanton	Colorado Department of Transportation
Yessica Holguin	Colorado Department of Transportation
Kathleen Bracke (Alternate)	Colorado Department of Transportation
Claire Levy	Denver Regional Council of Governments
Doug Rex	Denver Regional Council of Governments
Wynne Shaw	Denver Regional Council of Governments
Ron Papsdorf (Alternate)	Denver Regional Council of Governments
Kevin Flynn (Vice Chair)	Denver Regional Council of Governments
Shelley Cook	Regional Transportation District
Kate Williams	Regional Transportation District
Vince Buzek	Regional Transportation District
Debra Johnson	Regional Transportation District
Jeffery Kullman	Michael Baker International
Mike Silverstein	Regional Air Quality Council

Others Present:

Bill Van Meter (Alternate)	Regional Transportation District
Rebecca White (Alternate)	Colorado Department of Transportation

Public: Allison Cutting, Hilary Simmons, Roy Howard, Mark Northrop, Jan Rowe, Jesse Zamora, Deborah Mulvey

DRCOG Staff: Todd Cottrell, Emily Lindsey, Alvan-Bidal Sanchez, Cam Kennedy, Sang Gu Lee, Jacob Riger, Brad Calvert, Matthew Helfant, Josh Schwenk, Melissa Balding, Robert Spotts, Emily Kleinfelter, Steve Cook, Ala Nawaiseh, Ashley Summers

Call to Order

Vice Chair Kevin Flynn called the meeting to order at 8:33 a.m.

Public Comment

There was no public comment.

Summary of December 14, 2021 Meeting

The summary was accepted.

ACTION ITEMS

Transportation Improvement Program (TIP) FY 2021 Project Delays Report

Todd Cottrell, Senior Planner, Short Range Transportation Planning, informed the committee the *FY 2020-2023 Policy on TIP Preparation* document identifies expectations for project initiation and policy for addressing delays for projects/phases with DRCOG-allocated federal funding. Timely initiation of TIP projects/phases is an important objective of the Board. Delays, tie up scarce federal funds that could have been programmed to other projects.

At the end of Federal FY 2021 (September 30, 2021), DRCOG staff reviewed the implementation status of DRCOG-selected projects/phases with CDOT and RTD. DRCOG staff discussed with sponsors the reason(s) for the delays and identified action plans demonstrating the sponsor's commitment to timely initiation. The TIP Project Delays Report for FY 2021 summarized the reasons for delays and actions proposed by sponsors to get the project or phase(s) initiated.

Kate Williams MOVED to recommend to the Board actions proposed by DRCOG staff regarding TIP project delays for Fiscal Year 2021. The motion was seconded and passed unanimously.

Policy and process for selecting and programming Transportation Improvement Program (TIP) projects for FY 2022 through FY2027

Todd Cottrell informed the committee that in early 2021, DRCOG staff began working to develop a TIP Policy document and associated project application covering the programming of projects for FY 2024-2027. Three factors led staff to consider adjustments to the "normal" TIP process: 1) new Multimodal and Mitigation Options Funds (MMOF) under SB21-260, 2) state greenhouse gas (GHG) emissions reduction rulemaking, and 3) the total current and future anticipated funding available under the Infrastructure Investment and Jobs Act (IIJA).

Staff outlined the following parts to the TIP process governing the project selection process for FY2022 to FY2027.

- The TIP Policy: The document is used to guide and instruct how the TIP process takes place. Using the adopted FY 2020-2023 TIP Policy as a template, edits have been suggested in track-changes. These proposed edits have been informed by discussions with stakeholders and TAC that occurred since April. High-level changes include:
 - Capital project eligibility
 - Set-aside programs
 - Replaced "focus areas" with "2050 RTP project and program investment priorities"
 - Regional Share (20% minimum match and project and program eligibility)
 - Subregional Share (funding targets calculations updated and project and program eligibility)
 - Revised to remove references to any specific TIP (proposed to be called the "Policies for TIP Program Development")
- Recommended TIP Programming Process: Use two parallel "tracks" or applications to solicit applications.
 - The STBG track will solicit and select projects eligible for federal Surface Transportation Block Grant (STBG) funds, and the
 - Air Quality and Multimodal track will solicit and select projects eligible under the state MMOF program and federal Congestion Mitigation/Air Quality (CMAQ) program, Transportation Alternatives (TA) program, and Carbon Reduction Program (CRP). The funds will be combined to lower the local match for applicants.
- TIP Applications: Both applications are structurally the same but depending on which call is being held for which years, one or both "tracks" (and therefore applications) may be used, and

applicants will use the application that best suits the project type being submitted. Major changes from the FY2020-2023 TIP application that apply to both tracks include:

- replacing the previous High-Medium-Low scoring with a zero-to-five-point scale,
- replacing the previous TIP Focus Areas with the 2050 MVRTP Priorities,
- adding a new project readiness section, and
- general edits and restructuring of questions.

Mr. Ron Papsdorf noted on page 48 of 171 in the RTC packet, there should be a change on the fourth bullet point. The second sentence in the bullet should read “Federal CRP funds are for projects that support a reduction in greenhouse gas emissions” rather than “...reduction in transportation reductions”. Commissioner Claire Levy inquired if there were other changes that needed to be taken into consideration and Mr. Papsdorf noted in the last RTC meeting, Commissioner Yessica Holguin requested including language relating to equity. The application forms did include that language, but additional language regarding equity was incorporated into the policy document to better highlight that.

Kate Williams MOVED to recommend to the Board the draft *Policies for TIP Program Development* document and the draft Air Quality/Multimodal and STBG TIP Applications with recognition of the wording change as requested by Mr. Papsdorf. The motion was seconded and passed unanimously.

Transportation Advisory Committee Seniors Special Interest Seat

Jacob Riger, Manager, Long Range Transportation Planning, informed the committee there are seven special interest members on the Transportation Advisory Committee (TAC) providing expertise on issues relating to the regional transportation planning process. There is currently a vacancy for the Seniors member (who represents the interests of older adults) due to a recent retirement. DRCOG staff conducted a competitive application process, and a candidate was nominated by the Board Chair. To address this vacancy, Board Chair Ashley Stolzmann nominated Hilary Simmons, Executive Director of A Little Help, a non-profit that helps older adults maintain independent living at home by connecting them with neighbors to help with activities of daily living. With RTC approval, the appointment becomes effective with the January TAC meeting.

Director Kate Williams stated her support for Hilary Simmons. Claire Levy MOVED to confirm the appointment of Hilary Simmons as the Seniors special interest member on the Transportation Advisory Committee. The motion was seconded and passed unanimously.

INFORMATIONAL BRIEFING

2050 Regional Transportation Plan Greenhouse Gas Revisions Kickoff

Jacob Riger discussed that the state GHG emission reduction rule requires DRCOG to revise the 2050 RTP by October 1, 2022. DRCOG will need to demonstrate the plan meets the GHG emission reduction targets for the DRCOG region specified in the final rule or be subject to spending restrictions for certain funding types. DRCOG is soliciting routine project-based

amendments to the 2050 RTP. Staff issued the solicitation for project-based amendments on December 15, 2021, with a submittal deadline of January 14, 2022.

Concurrently, CDOT will be conducting its “4P” process as part of its 10-Year Plan review. CDOT is also soliciting input on targeted project-based changes to the 10-Year Plan through this process. Because the 10-Year Plan is incorporated into the 2050 RTP, staff from DRCOG and CDOT are working together to maximize coordination and integration of these planning processes.

All proposed project-based changes to DRCOG’s 2050 RTP and CDOT’s 10-Year Plan must meet federal fiscal constraint requirements. Additionally, any proposed project-based changes to the 10-Year Plan must first be amended within the 2050 RTP so the 10-Year Plan and 2050 RTP project investments remain consistent.

DRCOG staff anticipates conducting the GHG analysis using this overall approach to comply with the GHG rule requirements for the 2050 RTP:

1. Verify GHG emission results of the currently adopted fiscally constrained 2050 RTP.
2. Attempt to reach the GHG reduction targets by evaluating reductions from:
 - a. Program investments in the fiscally constrained 2050 RTP, such as transit, safety, bicycle/pedestrian, and other programs and non-project-defined investments.
 - b. Conceptual policy-level changes that could provide further GHG emission reduction benefits, such as regional growth and development.
 - c. Strategic fiscally constrained project and program investment changes that provide additional GHG emission reduction benefits
3. If needed, document other mitigation strategies to deploy that are not covered above to meet GHG emission reduction targets (which would require documentation and tracking per the GHG rule in a “Mitigation Action Plan”).

This process will involve DRCOG using its regional travel model and the Colorado Dept. of Public Health and Environment (CDPHE) running the GHG emissions model. DRCOG and CDPHE will also be conducting an air quality conformity determination for ozone and PM-10 as is federally required whenever DRCOG updates or amends the RTP.

ADMINISTRATIVE ITEMS

Member Comment/Other Matters

Executive Director, Doug Rex, welcomed Ms. Claire Levy to RTC and pointed out the uniqueness of the committee. The RTC is structured for the partners in the Metropolitan Planning Organization (MPO) – DRCOG, CDOT and RTD to all have a voice. Mr. Rex also congratulated Mr. Vince Buzek for being selected to chair the RTD Board. Lastly, Mr. Rex thanked DRCOG staff for their dedication and attention to detail on the upcoming TIP Call and RTP Update.

Next Meeting – February 15, 2022

Adjournment

The meeting adjourned at 9:26 a.m.

ATTACH B

ATTACHMENT B

To: Chair and Members of the Regional Transportation Committee

From: Josh Schwenk, Assistant Planner, Transportation Planning & Operations
jschwenk@drcog.org

Meeting Date	Agenda Category	Agenda Item #
February 15, 2022	Action	4

SUBJECT

Amending the *FY 2022-FY 2023 Unified Planning Work Program (UPWP)*.

PROPOSED ACTION/RECOMMENDATIONS

DRCOG staff recommends approval of the proposed FY 2022-FY 2023 UPWP amendments.

ACTION BY OTHERS

[January 24, 2022](#) – TAC recommended approval

SUMMARY

The *FY 2022-FY 2023 Unified Planning Work Program (UPWP)* describes the transportation planning activities to be conducted in the Denver region. The UPWP, prepared biennially, is the two-year work program for the MPO and serves as the management tool for scheduling, budgeting, and monitoring the planning activities of participating entities. The FY 2022-FY 2023 UPWP was adopted in July 2021.

Periodically, amendments to the UPWP are necessary to accurately reflect work to be performed or to comply with changes in federal law. This amendment includes the addition of tasks required under the recently passed federal Infrastructure Investment and Jobs Act (IIJA) and addressing updated federal planning emphasis areas recently released by the US Department of Transportation. The proposed amendments to the document are shown in the track changes version of the FY 2022-FY 2023 UPWP (see attachment).

The 2022 and 2023 Unified Planning Work Program includes investment of resources in corridor planning and community-based transportation planning as important initiatives to implement the 2050 Regional Transportation Plan. Increased state funding for multimodal projects through SB21-260 along with increased federal infrastructure funding through the IIJA necessitate accelerating these efforts to ensure compliance with state and federal spending timeframes and ensure alignment between specific project funding decisions and RTP priorities.

The federal IIJA increases funding for several formula and discretionary grant programs and creates several new discretionary and formula grant programs that align with DRCOG priorities. These include Complete Streets, Congestion Relief, Healthy Streets, Reconnecting Communities, Safe Streets & Roads for All and SMART. The proposed amendments allocate resources to efforts that will position the region to pursue and manage these programs and new planning requirements.

In addition, SB21-260 along with new state transportation planning GHG emissions reductions rules require that DRCOG perform significant new transportation planning work to ensure compliance with their requirements.

Additional details regarding the amendment will be reviewed at the meeting.

PREVIOUS DISCUSSIONS/ACTIONS

N/A

PROPOSED MOTION

Move to recommend to the Board amendments to the *FY 2022-FY 2023 Unified Planning Work Program*.

ATTACHMENT

Amended FY 2022-FY 2023 Unified Planning Work Program (in track-changes)

ADDITIONAL INFORMATION

If you need additional information, please contact Josh Schwenk, Assistant Planner, Transportation Planning and Operations Division at jschwenk@drcog.org.

Denver Regional Council of Governments

FY 2022 and FY 2023

**UNIFIED PLANNING
WORK PROGRAM**
FOR THE DENVER REGION

Adopted
July 21, 2021

Amended February 16, 2022

ABSTRACT

TITLE: FY 2022 and FY 2023 Unified Planning Work Program for the Denver Region

AUTHOR: Denver Regional Council of Governments

SUBJECT: Joint transportation planning work program for the Denver Regional Council of Governments, Colorado Department of Transportation, and Regional Transportation District

DATE: Adopted July 21, 2021
Amended February 16, 2022

SOURCE OF COPIES: Communications and Marketing
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or from the [DRCOG website](#)

NUMBER OF PAGES: 45

ABSTRACT: The Unified Planning Work Program describes and facilitates coordination of all urban transportation and transportation-related planning activities anticipated within the DRCOG Region for the 2-year period October 1, 2021 through September 30, 2023 (federal fiscal years 2022 and 2023)

Preparation of this report has been financed in part through grants from the Federal Transit Administration and the Federal Highway Administration of the U.S. Department of Transportation.

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I. ACRONYM GLOSSARY

The following acronyms are commonly used by the Denver Regional Council of Governments or appear in this document:

AARP	American Association of Retired Persons
ACS	American Community Survey
ADA	Americans with Disabilities Act
ADT	Average Daily Traffic
AHC	Accountable Health Community
AMP	Advanced Mobility Partnership
AMPO	Association of Metropolitan Planning Organizations
APA	American Planning Association
APCD	Air Pollution Control Division
AQCC	Air Quality Control Commission
<u>BIL</u>	<u>Bipartisan Infrastructure Law</u>
BRT	Bus Rapid Transit
CAA	Clean Air Act
CDOT	Colorado Department of Transportation
CDPHE	Colorado Department of Health and Environment
CFR	Code of Federal Regulations
CMAQ	Congestion Mitigation / Air Quality funding
CMPI	Community Mobility Planning and Implementation Set-Aside
CO	Carbon Monoxide
CPG	Consolidated Planning Grant
<u>CRP</u>	<u>Carbon Reduction Program</u>
DM/NFR	Denver Metro/North Front Range Nonattainment Area
DOLA	Department of Local Affairs
DRAPP	Denver Regional Aerial Photography Project
DRDC	Denver Regional Data Consortium
DRCOG	Denver Regional Council of Governments
DRMAC	Denver Regional Mobility & Access Council
EJ	Environmental Justice
EPA	Environmental Protection Agency
FAST Act	Fixing America's Surface Transportation Act
FHWA	Federal Highway Administration
FTA	Federal Transit Administration
FY	Fiscal Year
GIS	Geographic Information Systems
HH	Household(s)
HOT	High Occupancy/Toll Lanes
HOV	High Occupancy Vehicle Lanes
HPMS	Highway Performance Monitoring System
ICG	Interagency Consultation Group
IGA	Interagency Governmental Agreement
<u>IJA</u>	<u>Infrastructure Investment and Jobs Act</u>
IRIS	Inventory Road Information System

ITS	Intelligent Transportation Systems
LEP	Limited English Proficiency
LRS	Linear Referencing System
MAP-21	Moving Ahead for Progress in the 21 st Century Act
MMOF	Multimodal Options Fund
MOA	Memorandum of Agreement
MOU	Memorandum of Understanding
MOVES	Motor Vehicle Emission Simulator
MPO	Metropolitan Planning Organization
MVRTP	Metro Vision Regional Transportation Plan
NAAQS	National Ambient Air Quality Standards
NEPA	National Environmental Policy Act
NFRMPO	North Front Range Metropolitan Planning Organization
NHS	National Highway System
NOx	Nitrogen Oxide
PBPP	Performance-Based Planning and Programming
PEL	Planning and Environmental Linkages
PM	Particulate Matter
PPB	Parts Per Billion
PPM	Parts Per Million
RRS	Regional Roadway System
RAQC	Regional Air Quality Council
RTC	Regional Transportation Committee
RTD	Regional Transportation District
RTO&T	Regional Transportation Operations & Technology
SIP	State Implementation Plan
<u>SMART</u>	<u>Strengthening Mobility and Revolutionizing Transportation</u>
SOV	Single Occupancy Vehicle
STAMP/UC	Station Area Master Plan/Urban Center Set-Aside
STBG	Surface Transportation Block Grant
STIP	State Transportation Improvement Program
<u>STRAHNET</u>	<u>Strategic Highway Network</u>
TA	Transportation Alternatives
TAC	Transportation Advisory Committee
TAM	Transit Asset Management
TAZ	Transportation Analysis Zone
TDM	Transportation Demand Management
TIP	Transportation Improvement Program
Title VI	Title VI of the 1964 Civil Rights Act
TMA	Transportation Management Area
TMA's	Transportation Management Associations
TOD	Transit Oriented Development
TPD	Tons Per Day
TRB	Transportation Research Board
TRIPS	Transportation Regional Improvement Projects & Survey
ULI	Urban Land Institute
UPWP	Unified Planning Work Program
USC	United States Code

USDOT United States Department of Transportation
VMT Vehicle Miles Traveled
VOC Volatile Organic Compounds

II. INTRODUCTION

PURPOSE

The Unified Planning Work Program (UPWP) describes the proposed multimodal transportation planning activities to be conducted in the Denver region during FY 2022 and FY 2023 (October 1, 2021 through September 30, 2023). The UPWP is administered by the Denver Regional Council of Governments (DRCOG) in accordance with the [Memorandum of Agreement](#) (MOA) between DRCOG, the Colorado Department of Transportation (CDOT), and the Regional Transportation District (RTD). The MOA coordinates transportation decision-making in the region. Additionally, the planning and decision making process is defined through a guiding document titled [Transportation Planning in the Denver Region](#).

The UPWP is prepared biennially and serves as the basis by which Federal Highway Administration (FHWA) and Federal Transit Administration (FTA) urban transportation planning funds are spent in the region. Additionally, the UPWP is the management tool for scheduling, budgeting, and monitoring the planning activities of participating entities.

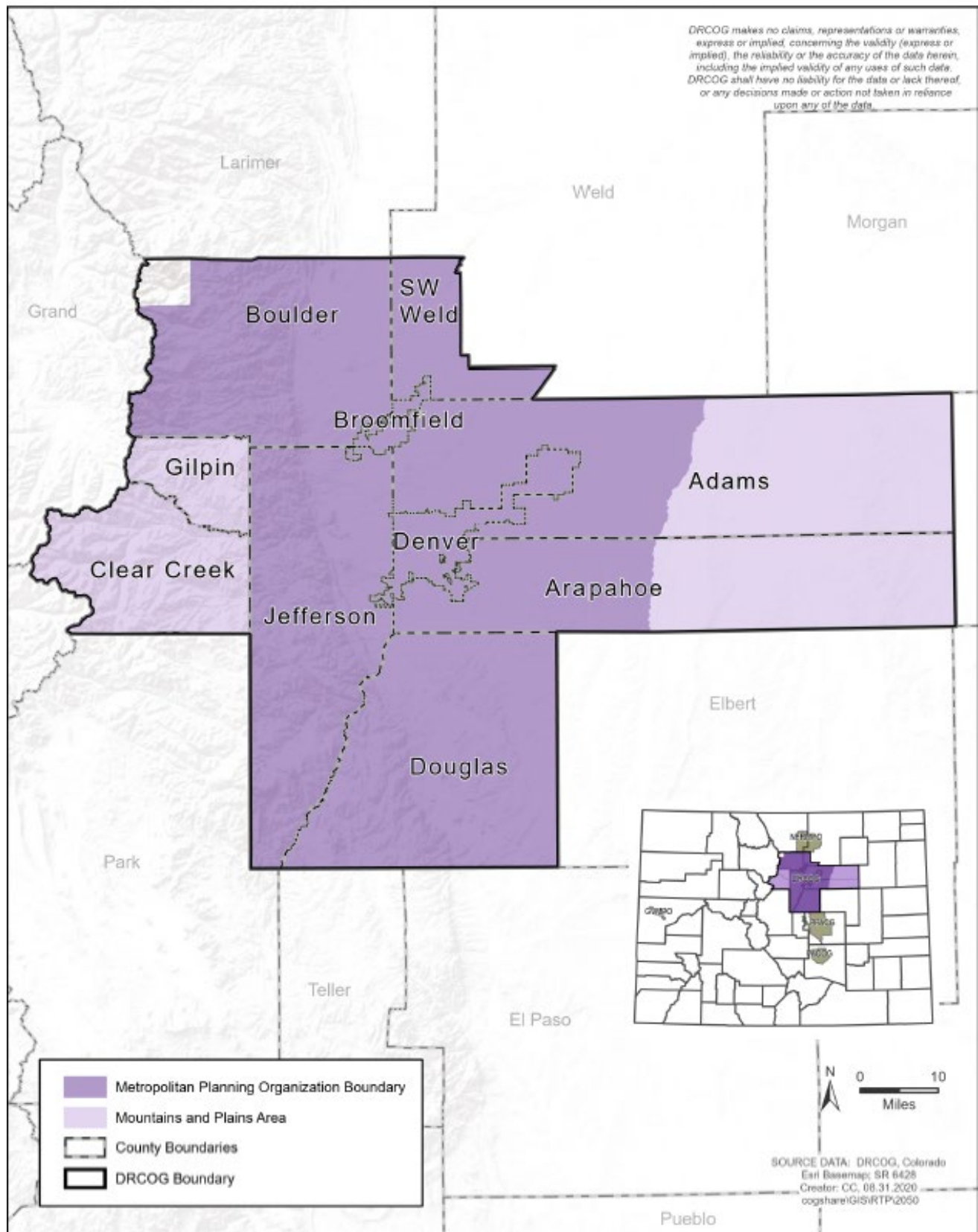
BACKGROUND

DRCOG is the designated Metropolitan Planning Organization (MPO) for the region's Transportation Management Area (TMA) (see Figure 1). As such, DRCOG is the recipient of federal urban transportation planning funds and is responsible for facilitating the metropolitan transportation planning process and for coordinating the activities of the other participating agencies that carry out UPWP activities. DRCOG works with local governments, regional agencies, and the state to determine how the federal urban transportation planning funds will be spent.

DRCOG, CDOT, and RTD signed a MOA in May 2018 that coordinates transportation decision-making in the region. The Regional Transportation Committee (RTC), made up of representatives from these three agencies, assists the DRCOG Board of Directors in carrying out the transportation planning process. These three agencies, working through the RTC, have approved and maintained a document titled [Transportation Planning in the Denver Region](#) that defines how the planning and decision making process works.

Figure 1. Transportation Management Area

Denver Regional Council of Governments (DRCOG)



III. REGIONAL TRANSPORTATION PLANNING CONTEXT

The DRCOG Metro Vision Plan and companion Metro Vision Regional Transportation Plan (MVRTP), define the future growth, development, and transportation investment framework for the region. CDOT, RTD, and local governments implement many important projects and services that greatly impact how people travel, where and how development occurs, and the quality of life in the Denver region.

GUIDELINES FOR PLANNING ACTIVITIES

Federal Transportation Planning Factors

The Infrastructure Investment and Jobs Act (IIJA) Fixing America's Surface Transportation (FAST) Act was signed into law in December November 20212015. It carries forward the planning principles of its predecessor, the Fixing America's Surface Transportation (FAST) Act Moving Ahead for Progress in the 21st Century Act (MAP-21), signed into law in 20125, with one modification (the addition of housing under Planning Factor 5). MPOs are required to consider ten planning factors in the transportation planning process. Substantial work is anticipated during FY 2022-2023 in consideration of these planning requirements. Below is a description of each planning factor and a summary of FY 2022-2023 planning activities applicable to each.

1. Support the economic vitality of the metropolitan area, especially by enabling global competitiveness, productivity, and efficiency.

- Activity 2.3 – coordination of planning efforts with neighboring regions to address interregional issues and opportunities
- Activity 3.1 – implement Metro Vision Plan, a shared vision of the metro area
- Activity 3.3, 3.6, 5.4, 5.5, 6.1, 6.5, 6.6, and 6.7 – promote the development of a multimodal transportation system
- Activity 3.7 – maintain and implement regional multimodal freight plan
- Activity 4.3 – monitor the progress status and results of TIP projects
- Activity 5.1 and 5.2 – enhance the effectiveness of the region's existing transportation system
- Activity 7.1 to 7.4 – maintain relevant data to better understand current and future travel patterns

2. Increase the safety of the transportation system for motorized and nonmotorized users.

- Activity 3.6 – develop strategies to improve safety of bicycle and pedestrian travelers
- Activity 4.1 – continue to support safety as a factor in the evaluation of TIP projects
- Activity 4.3 – monitor multimodal improvements in the DRCOG area
- Activity 5.2 and 5.3 – participate in incident management related committees/events
- Activity 5.4 – maintain crash data; prepare safety analyses and encourage the development of appropriate mitigation strategies

3. **Increase the security of the transportation system for motorized and nonmotorized users.**
 - Activity 2.2 and 2.3 – continue coordination with regional stakeholders
 - Activity 4.3 – monitor multimodal improvements in the DRCOG area
 - Activity 5.2 and 5.3 – promote the use of technology to enhance the security of roadway infrastructure
 - Activity 5.3 – coordinate with homeland security and emergency management related agencies and committee
 - Activity 7.1 and 7.4 – maintain an inventory of regional base maps and datasets
4. **Increase the accessibility and mobility options available to people and for freight.**
 - Activity 3.2 – support regional and local scenario analysis to study the impacts of alternative land use and development patterns
 - Activity 3.4 – monitor the performance of the transportation system
 - Activity 3.6 – maintain and implement regional active transportation plan and continue travel demand management (TDM) activities
 - Activity 3.7 – maintain and implement regional multimodal freight plan
 - Activity 5.1 and 5.2 – promote operational efficiencies of the existing roadway system
 - Activity 5.5 – develop strategies to implement advanced transportation technologies
 - Activity 6.1 – maintain and update the Coordinated Public Transit-Human Services Transportation Plan
 - Activity 6.2 to 6.7 – continue to assess transit needs and promote transit options
5. **Protect and enhance the environment, promote energy conservation, and improve quality of life, and promote consistency between transportation improvements and state and local planned growth, housing, and economic development patterns.**
 - Activity 1.4 and 2.3 – coordinate with CDOT, RTD, and local governments with regard to transportation network improvements; provide support to regional NEPA and other environmental efforts
 - Activity 2.1 and 2.2 – maintain contact with area citizens with a focus on receiving input to improve the transportation system and quality of life for the metro area
 - Activity 2.3 – incorporate housing into the metropolitan planning process
 - Activity 3.1 – implement Metro Vision Plan, a shared vision of the metro area; evaluate the social, environmental, land use, and economic impacts of transportation plans
 - Activity 3.5 – conduct air quality conformity determinations on transportation investments identified in the TIP and MVRTP; continue to host Interagency Consultation Group (ICG) meetings
 - Activity 3.6 – promote non-motorized forms of transportation
 - Activity 6.2 to 6.7 – continue to assess transit needs and promote transit options
6. **Enhance the integration and connectivity of the transportation system, across and between modes, and for people and freight.**
 - Activity 1.4 and 2.3 – coordinate with CDOT, RTD, and local governments with regard to transportation network improvements
 - Activity 3.3 – maintain 2050 MVRTP

- Activity 3.7 – maintain and implement regional multimodal freight plan
 - Activity 5.1 – continue a congestion management process that integrates transportation operations, travel demand management, and intelligent transportation systems (ITS) as mitigation tools
 - Activity 5.5 – develop strategies to implement advanced transportation technologies
 - Activity 6.2 to 6.7 – continue to assess transit needs and promote transit options
 - Activity 7.1 and 7.4 – maintain an inventory of regional base maps and datasets
- 7. Promote efficient system management and operation.**
- Activity 1.4 and 2.3 – coordinate with CDOT, RTD, and local governments with regard to transportation network improvements
 - Activity 3.4 – monitor the performance of the transportation system
 - Activity 4.3 – monitor the progress and results of TIP projects
 - Activity 5.1 and 5.2 – promote operational efficiencies of the existing roadway system
 - Activity 5.5 – develop strategies to implement advanced transportation technologies
 - Activity 7.1 and 7.4 – maintain an inventory of regional base maps and datasets
 - Activity 7.2 and 7.3 – analyze future travel demand
- 8. Emphasize the preservation of the existing transportation system.**
- Activity 4.3 – monitor the progress and results of TIP projects
 - Activity 5.1 – continue a congestion management process that integrates transportation operations, travel demand management, and intelligent transportation systems (ITS) as mitigation tools
 - Activity 5.2 – enhance the effectiveness of the region’s existing transportation system
 - Activity 7.1 and 7.4 – maintain an inventory of regional base maps and datasets that provide information about transportation facility condition
- 9. Improve resiliency and reliability of the transportation system and reduce or mitigate stormwater impacts of surface transportation.**
- Activity 2.3 – provide support to regional NEPA and other environmental efforts
 - Activity 5.1 – continue a congestion management process that integrates transportation operations, travel demand management, and intelligent transportation systems (ITS) as mitigation tools
 - Activity 5.2 – enhance the effectiveness of the region’s existing transportation system
 - Activity 6.2 to 6.7 – continue to assess transit needs and promote transit options
- 10. Enhance travel and tourism.**
- Activity 2.3 – coordination of planning efforts with neighboring regions to address interregional issues and opportunities
 - Activity 3.6 – monitor efforts, provide assistance, and prepare products that support pedestrian and bicycle transportation activities
 - Activity 5.2 – enhance the effectiveness of the region’s existing transportation system
 - Activity 6.1 to 6.7 – improve local and regional transit access and mobility through increased planning and coordination

Federal Planning Emphasis Areas

Both FHWA and FTA require the metropolitan transportation planning process be responsive to federal planning emphasis areas, if any exist. Currently, there are none covering FY 2022-2023. If at any time during the fiscal years of this UPWP new planning emphasis areas are identified, they will be amended into this document. On December 30, 2021, FHWA and FTA jointly released a set of eight planning emphasis areas. Planning emphasis areas are designed to ensure MPOs' planning activities address national goals and priorities. Below is a description of each planning emphasis area and a summary of FY 2022-2023 planning activities applicable to each.

1. Tackling the Climate Crisis – Transition to a Clean Energy, Resilient Future

- Activity 3.5 – assess and work to reduce transportation based emissions
- Activity 3.6 – develop strategies to support bike and pedestrian travelers, as well as other transportation demand management strategies to reduce single occupant vehicle use
- Activity 3.9 – identify opportunities for Healthy Streets projects to mitigate negative impacts of the transportation system, especially for low-income and disadvantaged communities
- Activity 5.5 – develop strategies to implement advanced transportation technologies, including electric vehicles
- Activity 6.2 to 6.7 – continue to assess transit needs and promote transit options
- Activity 7.4 – Improve methods of calculating greenhouse gas emissions

2. Equity and Justice⁴⁰ in Transportation Planning

- Activity 1.4 – incorporate guidance around community involvement, environmental justice, Title VI, Limited English Proficiency, and ADA Access requirements
- Activity 2.1 – explore equity based community outreach opportunities
- Activity 2.3 – incorporate housing into the metropolitan planning process
- Activity 3.5 – identify opportunities for Healthy Streets projects to mitigate negative impacts of the transportation system, especially for low-income and disadvantaged communities
- Activity 3.6 – develop strategies to support bike and pedestrian travelers, as well as other transportation demand management strategies to reduce single occupant vehicle use
- Activity 3.8 – identify opportunities to mitigate barriers caused by existing transportation infrastructure
- Activity 3.9 – develop community-based transportation plans to prioritize mobility options for low-income and disadvantaged communities
- Activity 4.2 – manage and select projects through the Transportation Improvement Program set-asides, including Human Services Transportation
- Activity 5.4 – identify and prioritize safety improvements in line with Taking Action on Regional Vision Zero
- Activity 6.1 – Coordinate with the Area Agency on Aging, manage and select projects for FTA Section 5310 funding and maintain and update the Coordinated Transit Plan

- Activity 6.2 to 6.7 – continue to assess transit needs, promote transit options, and plan for transit oriented development

3. Complete Streets

- Activity 3.6 – develop strategies to support bike and pedestrian travelers, as well as maintain, update, and implement the Complete Streets Toolkit
- Activity 3.8 – identify opportunities to mitigate barriers caused by existing transportation infrastructure
- Activity 6.2 to 6.7 – continue to assess transit needs and promote transit options

4. Public Involvement

- Activity 1.4 – incorporate guidance around community involvement, environmental justice, Title VI, Limited English Proficiency, and ADA Access requirements
- Activity 2.1 – implement the Public Engagement Plan to ensure involvement of the public in the development of DRCOG’s planning products, including through virtual methods
- Activity 3.9 – develop community-based transportation plans to prioritize mobility options for low-income and disadvantaged communities

5. Strategic Highway Network (STRAHNET)/US Department of Defense Coordination

- Activity 2.3 - Coordinate with CDOT and the US Department of Defense to identify any needed updates to the federal-aid highway system, including to the Strategic Highway Network (STRAHNET).

6. Federal Land Management Agency Coordination

- Activity 2.3 – work with federal partners to strengthen coordination around transportation issues on federal land

7. Planning and Environmental Linkages

- Activity 2.3 – participate in Planning and Environmental Linkage studies in the region
- Activity 3.8 – lead or coordinate corridor plans for priority regional multimodal corridors

8. Data and Transportation Planning

- Activity 2.2 – host Denver Regional Data Collective
- Activity 3.2 – provide data to assist local planning initiatives, including Denver Regional Visual Resources, and collect data related to Metro Vision performance management
- Activity 3.4 – compile data associated with federal performance measure to set or revise targets, evaluate performance, and publish the data as part of performance reports
- Activity 3.6 – Monitor, evaluate, and compile bicycle use counts conducted by CDOT and local governments across the region. Maintain facility inventory, databases, and monitor new sources, methodologies, and applications for providing information

- Activity 4.3 – Maintain and update the TRIPS project database and TIP web map
- Activity 5.1 – Prepare public information and outreach documents/presentations, including Congestion management Program data, whitepapers, and data briefs
- Activity 5.2 – Maintain and update webmaps on traffic signals and other applicable efforts
- Activity 5.4 – Geocode and perform quality checks on crashes in the Denver region that are off the state highway system, as data is made available. House and update the annual crash database of all crashes in the region and disseminate data
- Activity 6.1 - Compile ongoing transit service data from RTD to use for the travel model, plans, reports, and other activities as needed
- Activities 7.1 to 7.5 – develop, maintain, and share data resources for the use of DRCOG staff and partners around the region

Planning Priorities

For the FY 2022-2023 UPWP, many of the planning priorities for DRCOG are related to implementing the 2050 Metro Vision Regional Transportation Plan. This includes developing the new FY 2024-2027 Transportation Improvement Program and associated call for projects, developing priority project and corridor strategies, and implementing and maintaining DRCOG’s various modal plans and related activities.

The FY 2024-2027 Transportation Improvement Program will directly implement many of the priorities of the 2050 MVRTP through the funding priorities established in the TIP Policy. Developing the TIP includes the following tasks:

- Significant engagement with DRCOG’s committees and Board of Directors to develop the FY 2024-2027 TIP Policy document, including discussions of potential changes to project scoring, focus areas, set-asides, and other policy elements,
- Holding regional and subregional calls for projects to solicit project applications from sponsor agencies,
- Working with the subregional forums and scoring panels, as well as DRCOG’s committees and Board to select projects for funding,
- Analyzing selected projects for environmental justice and federal performance measure impacts, and
- Preparing and adopting the FY 2024-2027 TIP document.

The 2050 Metro Vision Regional Transportation Plan identifies several important program and project priorities to achieve the region’s desired outcomes. During this UPWP, DRCOG will take steps to further define these projects and work with partners to develop priority projects and corridor strategies.

Several DRCOG planning documents need further updates or implementation activities to advance the priorities in the 2050 MVRTP. Some of these activities include:

- Review and updates to the Taking Action on Regional Vision Zero plan High-Injury Network and Critical Corridors, as well as supporting the implementation activities of the Vision Zero Work Group,
- Denver Regional Active Transportation Plan implementation activities such as the Complete Streets Toolkit and other associated activities,

- Continued implementation of transportation technology improvements associated with Mobility Choice Blueprint, including activities of the Micromobility Work Group and Advanced Mobility Partnership.

DRCOG Nondiscrimination and Accessibility

Transportation planning activities must be consistent with Title VI of the Civil Rights Act of 1964 and additional nondiscrimination statutes. DRCOG continues to update the Disadvantaged Business Enterprise Program, originally prepared in 1999, as needed. In 2017, DRCOG completed new Title VI complaint procedures. In 2018, DRCOG adopted a Title VI Implementation Plan and a Limited English Proficiency (LEP) Plan. In 2019, the Title VI Implementation Plan was updated and the DRCOG Americans with Disabilities Act (ADA) Program Access Plan was developed. ~~DRCOG staff has begun the process to update the Title VI Implementation Plan, LEP Plan, and ADA Program Access Plan, with anticipated adoption in~~ were each updated again in September 2021. The current versions of these documents are available on DRCOG's [website](#) for public access. In addition, DRCOG continues to participate in the Colorado Unified Certification Program that was approved by the US Department of Transportation (USDOT) in April 2004.

Federal Quadrennial Review Comments

Every four years FHWA and FTA perform a review of the metropolitan transportation planning process conducted by DRCOG, CDOT, and RTD. The last review was completed in 2020. Recommendations from that review are incorporated in this document, as appropriate. The next review will be completed in 2024.

Integrate the Congestion Management Program Process

Traffic congestion has been recognized for its impacts on the region's economy, environment, quality of life, and public health. It can influence decisions on where to live or work and impact the price of goods and services. DRCOG works with local, state, and national partners, creating plans and programs that seek ways to alleviate congestion and help people and businesses avoid or adapt to traffic congestion.

Relationship to Air Quality Planning

Outcomes, objectives, targets, and initiatives related to air quality are fully incorporated in the adopted MVRTP. The MVRTP explicitly names addressing air quality as one of the region's priorities. The plan advocates the development of a bus rapid transit system, projects, and programs to reduce travel demand and provide alternatives to single occupancy vehicle travel, and better connected trail network.

The planning process is responsive to federal clean air legislation. Clean Air Act (CAA) amendments were passed by Congress in November 1990, and require that the TIP and the MVRTP show conformity with state implementation plans (SIP) for air quality.

Air quality conformity has been demonstrated for the current 2022-2025 TIP and the 2050 MVRTP.

In 2008, the U.S. Environmental Protection Agency (EPA) lowered the National Ambient Air Quality Standards (NAAQS) for ground-level ozone to 0.075 parts per million (ppm) from the 1997 standard of 0.085 ppm. On April 30, 2012, the EPA designated Denver Metro/North Front Range (DM/NFR) Area as marginal nonattainment under the 2008

ozone standard (0.075 ppm). The marginal nonattainment designation did not impose any new planning requirements on the State of Colorado. The DM/NFR Area failed to meet the standard before 2015 and was reclassified as moderate nonattainment. As a result, an updated Ozone SIP was completed and submitted to the state legislature in early 2017, including lowered motor vehicle emission budgets. EPA found the new budgets adequate in March 2018. In 2019, EPA reclassified the DM/NFR Area as serious nonattainment of the 2008 standard and an updated SIP is under development.

In 2015, the EPA lowered the NAAQS for ground-level ozone again to 0.070 ppm. On June 4, 2018, EPA published a final rule designating the DM/NFR Area as marginal nonattainment for the 2015 ozone NAAQS, effective August 3, 2018. A SIP for the 2015 ozone NAAQS was developed and approved in 2020.

The DM/NFR 8-hour Ozone Nonattainment Area for both the 2008 and 2015 ozone NAAQS standards covers the counties of: Adams, Arapahoe, Boulder, Broomfield, Denver, Douglas, Jefferson, and parts of Larimer and Weld Counties that have the highest concentration of emissions.

The regional transportation planning process has been organized to ensure communication and coordination between air quality and transportation agencies. The DRCOG transportation committee structure is defined in the MPO MOA. The companion document, *Transportation Planning in the Denver Region* and an MOA between DRCOG and the Regional Air Quality Council (RAQC) further define the positions on specific committees. The RAQC and Air Pollution Control Division (APCD) staffs are full participants in the air quality technical work of the planning program.

An [MOA](#) was signed by DRCOG, the North Front Range MPO (NFRMPO), RAQC, and APCD in 2015 that defines specific roles and responsibilities of DRCOG, NFRMPO, RAQC, the Air Quality Control Commission (AQCC), and APCD with respect to coordination of activities and technical responsibilities. DRCOG is responsible for preparing transportation data to be used for air quality modeling associated with conformity determinations. The APCD is responsible for conducting air quality modeling and mobile source emission calculations.

Since the 8-Hour Ozone conformity process involves three regional transportation planning agencies, a separate [MOA](#) addressing this process was signed in March 2008 by the Colorado Department of Public Health and Environment (CDPHE), CDOT, RAQC, Upper Front Range Transportation Planning Region, NFRMPO, and DRCOG. This MOA outlines agency roles, methods for determining conformity, and procedures for compiling model results from the three planning regions.

STATUS OF DRCOG PLANNING DOCUMENTS

The following table lists the most recent status (as of June 2021) of the Metro Vision Plan, the MVRTP, Transportation Improvement Program (TIP), and other associated planning documents.

Document	Action/Date
<u>Metro Vision Plan</u>	Amended May 2019
<u>2050 Metro Vision Regional Transportation Plan</u>	Adopted April 2021
<u>2022-2025 Transportation Improvement Program</u>	Adopted Amended April June 2021
<u>Taking Action on Regional Vision Zero</u>	Adopted June 2020
<u>Regional Multimodal Freight Plan</u>	Adopted May 2020
<u>Denver Regional Active Transportation Plan</u>	Adopted January 2019
<u>Denver Regional Intelligent Transportation Systems Deployment Program</u>	Adopted June 2014
<u>Coordinated Transit Plan</u>	Adopted April 2021
<u>DRCOG Section 5310 Program Management Plan</u>	Amended May 2021
<u>Title VI Implementation Plan</u>	Updated Adopted September August 2021 19
<u>DRCOG ADA Program Access Plan</u>	Developed Adopted August September 2021 19
<u>Limited English Proficiency Plan</u>	Adopted April September 2021 18
<u>Public Engagement Plan</u>	Adopted May 2019

FY 2020-2021 ACCOMPLISHMENTS

Major activities completed in the 2020-2021 UPWP include:

Public Engagement and Outreach

- Developed, promoted, and hosted the Citizens' Academy (fall 2019, fall 2020, and spring 2021) both in person and virtually.

- Undertook numerous public engagement strategies throughout the development of the 2050 MVRTP, including
 - Published summaries of public input heard during each phase of engagement.
 - Convened two new advisory groups, a Youth Advisory Panel and a Civic Advisory Group.
 - Developed an informational video.
 - Held the public comment period and public hearing.
- Conducted online survey, developed an interactive comment map, and solicited public comments on an online engagement site for Taking Action on Regional Vision Zero. Developed and promoted Vision Zero pledge.
- Solicited input for the Coordinated Transit Plan through an online survey and through interactive polling at stakeholder meetings.
- Conducted public hearing and public comment period for 2040 MVRTP amendment.
- Solicited public comments on an online engagement site for the adoption of the Regional Multimodal Freight Plan.
- Solicited input on the Regional Complete Streets Toolkit through an interactive map and questionnaire.
- Conducted public hearing and public comment period for 2022-2025 TIP.
- Partnered with Academy for Lifelong Learning to design and host an adult learning course on regional trends, issues, and current transportation planning efforts.
- Completed [2020 Public Engagement Annual Report](#)

Local Government and Stakeholder Education, Outreach, and Support

- Developed interactive map and promoted opportunity to local government stakeholders to provide input on the Small Area Forecast.
- Developed and delivered numerous educational presentations and trainings (e.g., AMPO/FHWA GIS Working Group, hosted Denver-Boulder Regional Climate Action Planning Workshop, hosted UrbanSim Users Conference, GIS Colorado, Special District Association, AARP Livable Communities Placemaking Workshop, etc.).
- Hosted 12 Idea Exchanges, or similar events in partnership with aligned organizations (University of Colorado-Denver, APA Colorado).
- Assisted University of Utah research team with federally-funded study of polycentric development that feature Denver, Portland and Seattle case studies.
- Held orientation meetings with local government staff and elected officials to discuss coordination with DRCOG staff, committees, and other opportunities to collaborate.
- Hosted meetings with local governments to review preliminary 2050 small-area forecast and gather additional feedback, data, and information needed to complete final product.
- Hosted eight meetings of the Denver Regional Data Consortium (DRDC), an open and voluntary committee made up of GIS professionals interested in collaborative data initiatives.
- Participated in county-wide transportation technical committees and forums.

FAST Act Performance Measure Reporting

- Adopted revised PM2 Infrastructure Condition targets.
- Adopted 2021 Public Transportation Agency Safety Plan targets.
- Adopted 2020 and 2021 PM1 Safety targets.
- Developed a System Performance Report for the 2040 MVRTP.
- Updated the System Performance Report for the 2050 MVRTP.
- Completed the CMAQ Performance Plan: Mid-Performance Period Progress Report.
- Developed a performance-based planning and programming webpage.
- Completed and signed a revised transit MOU with CDOT and RTD that addresses process, roles, and coordination for transit asset and transit safety targets (Pending—due June 2021).

Air Quality and Conformity

- Monitored the State Air Quality Control Commission (AQCC) notices, documents, and hearings related to the state Low Emission Vehicle and Zero Emission Vehicle executive orders.
- Coordinated with air quality partners on detailed conformity procedures and facilitated Interagency Consultation Group meetings.
- Completed conformity determinations (*modeling and report*) for 2020 Amended 2040 MVRTP and 2020-2023 TIP and new 2050 MVRTP and 2022-2025 TIP.

Metro Vision Plan

- Developed overall strategy to amend Metro Vision plan in 2021 to ensure alignment with MVRTP, and other regional planning initiatives.
- Completed Boomer Bond Assessments with Castle Pines, Edgewater, and Boulder.
- Served on numerous steering committees pursuing efforts aligned with Metro Vision plan (e.g., Metro Denver Nature Alliance, ULI Urban Mobility and Development, GIS in The Rockies Conference Board of Directors, Executive Committee of Regional and Intergovernmental Planning Division of the American Planning Association, etc.).
- Collaborated with regional planning organizations around the country to host *2020 Regional Futures Forum* in October 2020.
- Sponsored and supported Technical Advisory Panel (TAP) in partnership with ULI Colorado (*Revitalizing Longmont's Great Western Sugar Mill*).
- Created and maintained a more robust web presence for *Metro Vision*, including hosting performance measure reporting, community highlights, featuring searchable resources and plans and publicizing upcoming events and opportunities.
- Recognized local and regional efforts as part of the 2020 *Metro Vision* awards, including award solicitation and review and documentation of innovative activities for replication by other communities and stakeholders.
- Prepared analysis related to the “gaps” between final 2050 small-area forecast and aspirational future outlined in *Metro Vision*.
- Provided socioeconomic modeling inputs and other technical guidance to numerous local land use and transportation planning studies.
- Developed and published numerous Regional Data Briefs (i.e., Regional growth deceleration, Migration, COVID-19's effects on workers, etc.).

- Developed data and completed analysis for annual Metro Vision performance measure reporting (2018 and 2019 reports).

Metro Vision Regional Transportation Plan

- Administered 2020 amendments to the 2040 MVRTP (adopted July 2020).
- Developed and conducted scenario analysis.
- Worked with TAC to develop a project solicitation and evaluation framework.
- Solicited candidate projects from local and regional agency project sponsors.
- Worked with CDOT and RTD to evaluate candidate projects.
- Held three public meetings during the 30-day public review period for the draft 2050 MVRTP.
- Presented on the draft 2050 MVRTP at 25+ public meetings across the region.
- Prepared and adopted 2050 MVRTP (adopted April 2021).

Pedestrian and Bicycle Planning

- **Bicycle Facility Inventory**
 - Coordinated the update of GIS inventory and mapping of bicycle facilities, including new schema development and migration, documentation, and inventory mapping.
- **TIP Bicycle and Pedestrian Projects**
 - Conducted annual requests for status updates on TIP-funded bicycle and pedestrian projects.
- **Active Transportation Plan**
 - Coordinated with transportation management associations to include greater emphases on bicycling.
 - Included Active Transportation emphasis areas (Pedestrian Focus Areas, Short Trip opportunity Zones and Active Transportation Corridors) in regional interactive maps.
 - Presented to interest group on components of the Active Transportation Plan.
 - Hosted FHWA Bikeway Selection Guide Workshop in October 2019.
 - Participated on Colorado Safe Routes to School Advisory Committee.
- **Regional Bicycle Use Count Program**
 - Completed white paper on count implementation options.
 - Developed recommendation for next steps, including ongoing short duration counts at TIP project locations, development of a data management plan, and potential web-map/database to share count data with partners.
 - Conducted short duration counts at selected TIP project sites.
 - Collected annual bicycle and pedestrian counts from DRCOG's local jurisdictions.
 - Implemented an online regional bicycle and pedestrian count platform.
- **Regional Complete Streets Toolkit**
 - Held a project kick off meeting and 3 steering committee meetings with regional stakeholders.
 - Held 4 focus group meetings with local government for direction on developing regional street typologies.
 - Held a project development workshop with local jurisdictions with existing Complete Street policies for direction on project development guidance to be included in the toolkit.
 - Created Regional Street Typologies, that were also included in the 2050 MVRTP.

- Created a public questionnaire and interactive public engagement map, over 375 questionnaire responses and 725 map comments received.
- Regional Complete Streets Toolkit adoption summer 2021.

Transportation Improvement Program (TIP)

- **TIP Set-Asides**
 - Station Area Master Plan/Urban Center (STAMP/UC) Set-Aside
 - Worked with project sponsors to navigate initial contracting process with CDOT.
 - Travel Demand Management (TDM) Set-Aside
 - Monitored previously selected TDM set-aside projects.
 - Administered the project selection process and facilitated project review panel work.
 - Worked with FHWA and CDOT to refine scopes.
 - Community Mobility Planning and Implementation (CMPI) Set-Aside
 - Coordinated with FY20-21 CMPI sponsors to navigate initial contracting process with CDOT.
 - Continued to monitor/provide oversight for CDOT administration – taking part in individual project technical advisory committees or stakeholder-level meetings.
 - Updated eligibility rules and selection process document for FY22-23 CMPI set-aside.
 - Held one informational webinar, application workshop before opening call.
 - Human Service Transportation Set-Aside
 - Awarded and administered contracts for this funding source with community transportation providers and other project sponsors.
 - Regional Transportation Operations & Technology (RTO&T) Set-Aside
 - Completed project solicitation, evaluation, and selection of projects for the 2020-2023 RTO&T set-aside program.
- **2020-2023 TIP**
 - Processed amendments and administrative modifications to the TIP.
 - Analyzed projects for delay and reported out to committees and Board.
 - Completed annual listings of projects obligated in FY 2019 and FY 2020.
- **2022-2025 TIP**
 - Developed and adopted the TIP document in April 2021.
 - Worked through the waiting list process with the subregional forums to program additional funding from project returns and COVID funding; amended the TIP to reflect the new/revised projects.
 - Held a supplemental call for projects to add projects to subregional waitlists.
- **2024-2027 TIP**
 - Began discussions with DRCOG's committees to update rules, processes, and policies for both the regional and subregional calls for projects.

DRCOG Congestion Management Process

- Completed 2018 Report on Traffic Congestion.
- Completed 2019 Report on Traffic Congestion.
- Updated traffic count inventory.

- Completed Data Brief on COVID-19's Effects on Traffic Volumes.

Regional Travel Demand Management (TDM) Planning

- Calculated air quality benefits for TDM set-aside infrastructure and non-infrastructure projects.

Regional Transportation Operations & Technology

- Facilitated implementation of projects selected in the 2017 RTO Improvement Program call for projects.
- Completed update and maintenance of Regional ITS Architecture.
- Participated on several new mobility and technology initiatives, including the Mobility Choice Blueprint and the Advanced Mobility Partnership.
- Participated and assisted with local, regional, state, and federal Transportation Incident Management efforts.

Transportation Security Planning

- Conducted extensive dialogue and coordination with local, regional, state, and federal partners regarding operations, security, and new technologies.

Transportation Safety Planning

- Prepared Taking Action on Regional Vision Zero, a safety action plan for the Denver region (adopted June 2020).
- Held 6 Regional Vision Zero Stakeholder Committee meetings.
- Head 4 local agency meetings in different locations in the Denver region.
- Created a public survey and interactive public engagement map, over 3300 survey submissions received, and 1,000 locations identified through the interactive map.
- Partnered with CDOT to initiate Safer Main Streets.
- Worked with FHWA and CDOT to host and promote trainings on pedestrian safety.
- Convened a Regional Vision Zero Working group that meets monthly to discuss Denver region safety issues.
- Created a Vision Zero Safety Pledge to promote citizens to practice safer behaviors while traveling on regional roadways.
- Implemented a Regional Vision Zero Education Campaign to promote Vision Zero and educate the public on needed behavior changes to reduce fatalities and serious injuries.

Transportation Technology Planning and Advanced Mobility Partnership

- Facilitated and hosted quarterly regional Micromobility Work Group meetings.
- Released Shared Micromobility in the Denver Region document detailing local agency considerations for regional consistency when implementing shared micromobility programs.
- Launched multi-agency, cross-jurisdictional shared micromobility data pilot, using Ride Report.
- Hosted day-long Mobility Data Specification Workshop for regional stakeholders.
- Participated in statewide and regional efforts including Colorado Electric Vehicle Coalition Micromobility Subgroup, CDOT Emerging Mobility Impact Policy Committee,

University of Denver Mobility Beyond Being Smart: Freight Workshop, APA Colorado MURP Panel, Denver Electric Vehicle Steering Committee, Colorado Smart Cities Alliance Deployment Board Workshop, and Moving People Forward conference presentations.

- Participated in national mobility efforts including the Open Mobility Foundation member, SAE's Mobility Data Collaborative member, Urbanism Next Conference presenter, Transportation Research Board (TRB) annual paper review and conference attendance, TRB Standing Committee on Transportation Planning for Small and Medium Sized Communities member, TRB Standing Committee on Transportation Planning Policy and Processes member, and MPO Peer Exchange on Vision Zero participants.
- Participated in the Technical Advisory Committee for Urbanism Next's "Perfecting Policy with Pilots: New Mobility and AV Urban Delivery Pilot Project Assessment" report.
- Participated as Civic Lead alongside academic and community partners in the National Science Foundation's Civic Innovation Challenge (Valverde Movement Project) phase 1 led by University of Colorado Denver
- Launched Advanced Mobility Partnership (AMP) in December 2019.
- Built, launched, and maintained AMP website.
- Facilitated and hosted monthly meetings of the AMP Working Group, quarterly meetings of the AMP Executive Committee, and nine Focus Area Steering Committee meetings during summer 2020 in areas of (1) Shared Mobility, (2) System Operations and (3) Data and Data Sharing.
- Developed AMP Next Steps document detailing initial scopes for priority tactical actions.
- Worked with three capstone students to explore (1) complete streets and safety and (2) mobility data privacy.

Regional Transit/Human Service Transportation Planning and Coordination

- Completed initial work, including pilot of "trip exchange" for human service transportation through Veterans Transportation and Community Living Initiative grant.
- Awarded funding and administered Human Service Transportation and FTA 5310 projects.
- Continued to provide technical assistance for corridor studies including two multimodal studies for different sections of Federal Blvd.
- Coordinated with DRCOG's Accountable Health Community (AHC) team on the development of an AHC-required report - *Denver Regional Accountable Health Community: Strategies and Recommendations for Transportation Service Improvements*.

Develop and Maintain Information Systems

- Completed the 2020 annual data collection process, gathering data from local governments to assemble regional datasets, and initiated 2021 process.

- Developed numerous GIS datasets in support of local and regional planning efforts (i.e., ACS vulnerable populations, bike counts, CDOT Inventory Road Information System (IRIS), CDOT Linear Referencing System (LRS), compiled local zoning, crash data, high-injury network, critical corridors, etc.).
- Launched new Experience Builder webmaps (i.e., traffic signals, TIP, etc.) and updated other web-based data catalogs and visualizations.
- Published new and updated data to the Regional Data Catalog.
- Hosted DRDC meetings.
- Completed the 2018 Planimetric Project.
- Completed the 2020 Denver Regional Aerial Photography Project (DRAPP).
- Developed agency-wide Data Privacy Policy related to collection, storage, analysis and reporting of protected data.
- Reviewed and verified selected statistical area boundaries for 2020 Census data tabulation following U.S. Census Bureau guidelines and criteria.

Develop and Maintain Land Use Modeling and Forecasting Systems

- Evaluated and pursued land use model datasets, including adhering to user agreements when transitioning away from proprietary data and preparing other datasets to support land use model (i.e., Longitudinal Employer-Household Data).
- Improved the estimation of capacity for more households and employment based on local zoning instead of regional zoning categories.
- Compiled approved plans and plats from local governments for incorporation in land use model forecasts (scheduled development dataset).
- Incorporated data on observable household and employment growth for improvements to forecast from base year to 2018.
- Developed 2050 small-area scenario forecasts (households and employment) for MVRTP scenario analysis using regional control totals, including alternative land use patterns anchored to *Metro Vision*.
- Developed and published final 2050 small-area forecasts (households and employment) using county control totals, including local government review of preliminary results.
- Developed web comment map to collect local government feedback preliminary small-area forecasts (approximately 600 comments received from 29 local governments).
- Reworked the script that transforms the UrbanSim model outputs for use in DRCOG's travel model.

Transportation Modeling and Forecasting

- Conducted travel model runs to create inputs for two air quality determination cycles.
- Completed major update and re-validation of the travel demand model (Focus Version 2.3) that significantly improved the model results for all modes of travel.
- Conducted several travel model runs and tabulated outputs for the 2050 MVRTP Scenario Analyses.
- Provided the Focus travel model, specific output results, and assistance to partner agencies and consultants for use in over a dozen major corridor and interchange studies.

Regional Transportation Dataset/Data Platform

- Completed initial discovery and engagement work in support of exploring the development of a regional mobility data platform detailed in a Discovery Report, Case Study Report and Survey Report.

IV. DRCOG PLANNING ACTIVITIES

DRCOG may acquire consultant services in completing planning activities in this UPWP.

OBJECTIVE 1.0 PROGRAM ADMINISTRATION AND COORDINATION

Administer the core Metropolitan Planning Organization (MPO) transportation planning program.

Activity 1.1 Direct Program Management

Purpose: Provide effective administration of the DRCOG transportation planning process including management of DRCOG planning staff and grants.

Tasks:

- Supervise DRCOG personnel assigned MPO planning work. Monitor staff work on the UPWP
- Monitor internal strategic management and performance measurement system
- Prepare and maintain adequate records of correspondence, purchasing, and contracts
- Routine personnel, office, and administrative activities

Participants: DRCOG

Activity 1.2 DRCOG Staff Training and Development

Purpose: Provide DRCOG staff with the necessary training and development to perform their jobs efficiently and effectively.

Tasks:

- Provide training in-house and offsite for DRCOG staff
- Attend webinars
- Attend virtual in-state and out-of-state conferences

Participants: DRCOG

Activity 1.3 Unified Planning Work Program

Purpose: Develop and maintain the Unified Planning Work Program in compliance with applicable federal laws.

Tasks:

- Manage and administer the FY2022-2023 Unified Planning Work Program
- Develop and adopt the FY2024-2025 Unified Planning Work Program
- Evaluate progress on the UPWP

Deliverables:

2022

- FY 2021 UPWP end-of-year report
- FY 2022 UPWP mid-year report

2023

- FY 2022 UPWP end-of-year report
- FY 2023 UPWP mid-year report
- FY 2024-FY 2025 UPWP

Participants: DRCOG (lead), CDOT, RTD, and local governments

Activity 1.4 MPO Compliance

Purpose: Ensure the metropolitan transportation planning process is conducted in compliance with applicable federal and state laws.

Tasks:

- Support and participate in DRCOG's transportation policy, planning, and programming committees with agendas, meeting logistics, maintenance of membership, and miscellaneous communications
- Incorporate guidance and participate in procedural efforts involving state and federal agencies on the regional transportation planning process, including addressing public involvement, environmental justice, and Title VI/Limited English proficiency/ADA Access
- Address items that were contained within the 2020 joint FHWA and FTA Quadrennial Review of the MPO Planning Process

Participants: DRCOG (lead), CDOT, RTD, APCD, RAQC

OBJECTIVE 2.0 PLANNING COORDINATION AND OUTREACH

Increase participation and support of the public in the planning process and engage with the transportation planning activities of partner agencies to address the transportation and development issues of the region and ensure outcomes that are consistent with Metro Vision goals and policies.

Activity 2.1 DRCOG Public Engagement and Outreach

Purpose: Inform stakeholders and the general public about DRCOG's plan and program development and implementation processes, provide opportunities for them to participate in planning and policy decisions by conveying their opinions to DRCOG staff and Board members, and provide educational resources to about DRCOG and planning in general.

Tasks:

- Implement engagement and outreach strategies identified in the Public Engagement Plan and monitor and evaluate the effectiveness
- Conduct public hearings, forums, meetings, workshops, and others to gather input and public comment and/or inform the public regarding major planning products identified in the UPWP
- Create and maintain various DRCOG web pages and other communications materials to inform the public of adopted documents, program amendments, and opportunities to offer comments. Revitalize DRCOG web properties through a website refresh project
- Hold the Citizens' Academy, a program to educate participants about regional issues and empower them to participate in civic decision-making
- Investigate the feasibility of methods to increase public involvement, including integrating interactive virtual technologies and exploring additional equity-based community outreach opportunities
- Give presentations or short courses to community, advocacy, and other interest groups, as requested

Deliverables:

2022

- Annual Report of Public Engagement Activities

2023

- Annual Report of Public Engagement Activities

Participants: DRCOG (lead), CDOT, RTD, and local governments

Activity 2.2 Local Government and Stakeholder Education, Outreach, and Support

Purpose: Provide education, outreach, and support to local governments and other stakeholders.

Tasks:

- Educate local governments and other interested parties about the DRCOG transportation planning process, federal regulations, and associated documents
- Meet with local governments about their transportation planning issues and needs and provide support and technical assistance as necessary
- Meet and coordinate with local governments, and their planning and development partners, about local planned growth and development patterns; seek feedback on small area forecasts of households and employment, as needed

- Facilitate forums and educational opportunities for local government staff, data professionals, and other stakeholders to collaborate and exchange information
- Pilot a new transportation-land use connection technical assistance program for local agencies
- Host and convene the DRDC, an open and voluntary committee made up of GIS professionals interested in collaborative data initiatives

Participants: DRCOG (lead), CDOT, RTD, and local governments

Activity 2.3 Regional Planning Coordination

Purpose: Maintain the working relationship and coordination of planning efforts between DRCOG and its local governments, planning partners, and neighboring transportation agencies to address transportation issues and opportunities.

Tasks:

- Maintain communication, coordinate, and exchange information with partners on planning for transportation facilities and services adjacent to mutual border; attend Statewide MPO Committee meetings; coordinate with neighboring MPOs on growth and development forecasting; work with federal partners to strengthen coordination around transportation issues on federal lands
- Host the Agency Coordination Team (ACT) and Interagency Consultation Group (ICG), and participate in CDOT and RTD regularly-scheduled meetings in order to facilitate communication among planning partners
- Monitor, participate, and assist with statewide or interregional transportation planning activities, corridor studies, NEPA studies, Planning & Environmental Linkage Studies (PELs), and funding opportunities. Implement or incorporate outcomes into planning documents as appropriate
- Provide model components and outputs to planning partners, local governments, or consultants conducting NEPA or other studies
- Participate in and/or monitor the state transportation-related enterprises and committees including High-Performance Transportation Enterprise, Statewide Bridge Enterprise, CDOT Transit & Rail Advisory Committee, CDOT Efficiency & Accountability Committee, State Transportation Advisory Committee, Southwest Chief & Front Range Passenger Rail Commission, and others as appropriate
- Participate in regional transportation funding initiative
- Consult with housing agencies and incorporate housing into the transportation planning process
- Coordinate with CDOT and the US Department of Defense to identify any needed updates to the federal-aid highway system, including to the Strategic Highway Network (STRAHNET).

Participants: DRCOG (lead), CDOT, RTD

OBJECTIVE 3.0 LONG RANGE AND MULTIMODAL PLANNING

Develop, refine, and implement the region’s long range plans – Metro Vision and the Metro Vision Regional Transportation Plan – as well as the various modal plans which help to implement their principles, to enhance and improve the quality of life in the DRCOG region.

Activity 3.1 Metro Vision Plan – Collaboration and Implementation Assistance

Purpose: Work with local and regional partners to maintain and implement Metro Vision.

Tasks:

- Convene and facilitate local governments to form issue- and/or geography-based cohorts to identify and pilot initiatives affecting growth, development, economic vitality, and quality of life
- Participate in regional partnerships that advance Metro Vision outcomes and objectives through direct involvement, sponsorship, events, workshops, or other collaboration
- Maintain Metro Vision through member-sponsored plan amendments as well as other amendments to ensure consistency between Metro Vision and other regional initiatives
- Build the capacity of local governments and other stakeholders to implement Metro Vision by creating, curating, and/or sharing self-assessment tools, case studies, and other implementation resources
- Organize attention around key geographies identified in Metro Vision and the MVRTP for use in regional and local planning and implementation activities (i.e., urban centers)

Deliverables:

2022

- Amendments (if any) to Metro Vision

2023

- Amendments (if any) to Metro Vision

Participants: DRCOG (lead), local governments, CDOT, RTD

Activity 3.2 Metro Vision Plan – Research and Performance Management

Purpose: Research and share data and information that may illustrate progress toward and issues faced in achieving plan outcomes.

Tasks:

- Routinely analyze and share progress on Metro Vision outcomes, including documentation of successes, ongoing challenges, and regional issues
- Provide data, tools, and information that support local and regional plans and initiatives to address regional issues and help achieve Metro Vision
- Collect, compile, and purchase data in support of Metro Vision performance measurement
- Develop, maintain, and update the Denver Regional Visual Resources that allow internal and external users to explore and consume information

- Work with local governments and other stakeholders to understand the need for data, tools, and other enhancements that improve the ability to explore, consume, and contribute to regional data products
- Support regional and local scenario analysis, including impacts of alternative land use and development patterns

Deliverables:

2022

- Metro Vision performance measure status report
- Community and Legislative Profiles redesign and update
- Regional Data Briefs

2023

- Metro Vision performance measure status report
- Community and Legislative Profiles update
- Regional Data Briefs

Participants: DRCOG (lead), local governments, CDOT, RTD, DOLA

Activity 3.3 Metro Vision Regional Transportation Plan

Purpose: Maintain the 2050 MVRTP.

Tasks:

- Solicit and process (if needed) amendments to the 2050 MVRTP annually or as needed; assist local governments and other project sponsors with plan amendment questions and procedures
- Work with local governments, CDOT, RTD, and other stakeholders to initiate and participate in project development activities to begin implementing 2050 MVRTP project and program investment priorities
- Provide travel model data results in support of 2050 MVRTP amendments
- Begin update process to MVRTP document

Deliverables:

2022

- Amendments (if any) to the 2050 MVRTP

2023

- Amendments (if any) to the 2050 MVRTP

Participants: DRCOG (lead), CDOT, RTD, local governments, and other stakeholders and partner agencies

Activity 3.4 Federal Performance Measure Reporting

Purpose: Update, compile, and report on the implementation of federally-required performance measures related to regional transportation planning processes.

Tasks:

- Compile data associated with transportation performance measures for PM1, PM2, PM3, Transit Asset Management, and Public Transportation Agency Safety Plan
- Work with planning partners to set or revise targets and develop baselines for each federal performance measure
- Prepare performance measure reports, and/or assist CDOT with preparing performance measure reports

- Prepare/update CMAQ performance plan of TIP-funded projects
- Work to integrate performance measures into other DRCOG work products, as appropriate

Deliverables:

2022

- Target reporting for federally required performance measures
- CMAQ performance plan

2023

- Target reporting for federally required performance measures

Participants: DRCOG (lead), CDOT, RTD

Activity 3.5 Air Quality and Conformity

Purpose: Complete air quality conformity determinations associated with transportation facilities identified in the TIP and the 2050 MVRTP (a finding of conformity is a federal requirement and a prerequisite to the adoption or amendment of the TIP or MVRTP).

Tasks:

- Monitor federal and state legislation regarding new standards, requirements, or procedures impacting transportation. Assist air quality agencies (i.e., APCD, RAQC), as needed
- Monitor the readings and trends of criteria pollutants in relation to established attainment standards
- Host the Interagency Consultation Group (ICG) in order to facilitate better communication among planning partners and make air quality process decisions
- Prepare highway and transit networks (DRCOG), update planning assumptions, perform air quality conformity model runs (DRCOG and APCD), and review highway networks (CDOT) and transit networks (RTD) associated with amendments of the 2050 MVRTP
- Provide travel model data results in support of air quality conformity analyses
- Prepare air quality conformity findings (DRCOG) and assess findings (APCD and AQCC) associated with amendments to the MVRTP
- Participate in the development of the new ozone State Implementation Plan (SIP) (carryover from FY 2020-2021 UPWP)
- Continue with activities associated with the Regional Haze SIP
- Assist with local and regional analyses of emissions, greenhouse gases, and other air quality topics
- Coordinate with the State on developing a Carbon Reduction Strategy
- Evaluate opportunities and priorities for reducing on-road highway source carbon dioxide emissions
- Assess opportunities for Healthy Streets projects; identify regional heat islands, tree cover, and impervious surfaces, etc., especially in low income and disadvantaged communities

Deliverables:

2022

- Conformity Determination Reports for MVRTP amendments (as needed)

2023

- Conformity Determination Reports for MVRTP amendments (as needed)

Participants: DRCOG (lead), APCD, RAQC, AQCC, RTD, CDOT

Activity 3.6 Active Transportation and TDM Planning

Purpose: Monitor efforts, provide assistance, and prepare products that support active transportation activities and transportation demand management (TDM) services consistent with the MVRTP.

Tasks:

- Monitor progress on TIP-funded and other active transportation and TDM projects
- Monitor, evaluate, and compile bicycle use counts conducted by CDOT and local governments across the region. Maintain facility inventory, databases, and monitor new sources, methodologies, and applications for providing information
- Continue regional active transportation meetings/summits to facilitate communication and provide educational opportunities
- Respond to requests for assistance including participating in CDOT’s Safe Routes to School program development and project selection process, as requested
- Maintain, update, and continue implementation activities for the Active Transportation Plan and Regional Complete Streets Toolkit and develop metrics of implementation status
- Conduct, develop, coordinate, and monitor other activities such as level of traffic stress assessment, regional wayfinding, “last-mile” studies, and TDM project benefit calculation methodology
- Begin development of new Regional TDM Short-Range Plan

Deliverables:

2022

- Regional bicycle facility inventory
- Report on status of TIP-funded active transportation and TDM projects

2023

- Regional bicycle facility inventory
- Report on status of TIP-funded active transportation and TDM projects

Participants: DRCOG (lead), RTD, CDOT, TMAs, local governments

Activity 3.7 Regional Freight Planning

Purpose: Monitor efforts, provide assistance, and prepare products that support freight activities.

Tasks:

- Maintain and update as needed the DRCOG Regional Multimodal Freight Plan
- Participate in the National Highway Freight Program project selection process and designate Critical Urban Freight Corridors (as needed) based on project selection
- Participate in Freight Advisory Council meetings
- Review critical urban freight corridors and identify opportunities for additional designations

Participants: DRCOG (lead), CDOT, local governments

Activity 3.8 Corridor Planning

Purpose: Lead or coordinate corridor plans for priority regional multimodal corridors.

Tasks:

- Solicit proposals for corridor planning projects from local agencies and community groups and select initial project proposals
- Procure consultant services for development of planning recommendations
- Develop engagement materials to communicate program goals and services
- Lead/coordinate corridor plans
- Reconnecting Communities Assessment - Identify priority opportunities for projects to retrofit or mitigate existing facilities that create barriers to community connectivity

Deliverables:

2023

- Corridor Plan

Participants: DRCOG (lead), RTD, CDOT, local governments, community organizations

Activity 3.9 Community Based Transportation Plans

Purpose: Lead or coordinate community based transportation plans to improve mobility options for low-income and disadvantaged populations through grassroots efforts to identify local communities' most important transportation challenges and develop strategies to overcome them.

Tasks:

- Solicit proposals for community based transportation plan projects from local agencies and community groups and select initial project proposals
- Procure consultant services for development of planning recommendations
- Develop engagement materials to communicate program goals and services
- Lead/coordinate plans

Deliverables:

2022

- Community Based Transportation Plan #1

2023

- Community Based Transportation Plan #2

Participants: DRCOG (lead), RTD, CDOT, local governments, community organizations

OBJECTIVE 4.0 PROJECT PROGRAMMING

Identify and implement priorities within the metropolitan area by effectively developing and managing the Transportation Improvement Program.

Activity 4.1 Prepare Transportation Improvement Program

Purpose: Prepare the TIP by identifying projects to be funded with federal resources and other regionally significant projects.

Tasks:

- Conduct discussions and adopt 2024-2027 TIP Policy
- Conduct calls for projects associated with 2024-2027 TIP
- Prepare the 2024-2027 TIP document for committee review and Board adoption by Spring 2023

Deliverables:

2022

- Adopt 2024-2027 TIP Policy document

2023

- Adopt 2024-2027 TIP document

Participants: DRCOG (lead), RTD, CDOT, local governments

Activity 4.2 Transportation Improvement Program Set-Asides

Purpose: Set policy, select projects, and maintain and monitor the TIP Set-Asides to be funded with federal resources.

Tasks:

- Set procedures for each Set-Aside, as necessary
- Conduct call for projects for each Set-Aside and amend selected projects into the adopted TIP
- Coordinate with project sponsors and CDOT to ensure successful implementation of selected projects

Deliverables:

2022

- Adopt policies, procedures, and projects for the TDM and Human Services Transportation Set-Asides

2023

- Adopt policies, procedures, and projects for the RTO&T Set-Aside

Participants: DRCOG (lead), RTD, CDOT, local governments

Activity 4.3 Transportation Improvement Program Management

Purpose: Maintain and monitor the TIP by identifying projects to be funded with federal resources and other regionally significant projects.

Tasks:

- Prepare amendments and monthly administrative modifications to the current TIP, and maintain an up-to-date version of the current TIP document on DRCOG's website and in the Transportation Regional Improvement Projects and Survey (TRIPS) database, as necessary

- Conduct appropriate project programming activities when additional revenues are made available or decreased, including additional Calls for Projects as warranted
- Provide financial and project coordination assistance to implementing agencies and project sponsors
- Conduct activities with CDOT and local governments to continuously refine the IGA, contracting, and federal aid processes
- Monitor the progress status and results of TIP projects including how COVID-19 has impacted projects
- Maintain and update the TRIPS project database and TIP web map

Deliverables:

2022

- Amendments and administrative modifications, as necessary
- FY 2021 Projects Delayed Report
- FY 2021 Annual Listing of Obligated Projects

2023

- Amendments and administrative modifications, as necessary
- FY 2022 Projects Delayed Report
- FY 2022 Annual Listing of Obligated Projects

Participants: DRCOG (lead), RTD, CDOT, local governments

OBJECTIVE 5.0 TRANSPORTATION SYSTEMS OPERATIONS

Implement regional priorities through strategies to improve the safety and effectiveness of the existing transportation system, explore innovative solutions, and protect air quality.

Activity 5.1 DRCOG Congestion Management Process

Purpose: Administer the Denver region's federally-required multimodal and multi-approach Congestion Management Process.

Tasks:

- Update the Congestion Mitigation Program databases annually
- Update formulas and factors for delay calculations, as needed. Evaluate new data sources and methodologies (i.e., INRIX, HERE, StreetLight)
- Prepare public information and outreach documents/presentations, including Congestion management Program data, whitepapers, and data briefs
- Maintain performance tracking report on TIP-funded roadway projects
- Evaluate opportunities for innovative, integrated, and multimodal solutions to congestion relief in the Denver region

Deliverables:

2022

- Annual Report of Traffic Congestion in the Denver Region

2023

- Annual Report of Traffic Congestion in the Denver Region

Participants: DRCOG (lead), CDOT, RTD, TMOs, public highway authorities

Activity 5.2 Regional Transportation Operations & Technology

Purpose: Provide a regional transportation operations perspective to the Metro Vision planning process, assure conformance with the Regional ITS Architecture, and lead inter-jurisdictional and interagency coordination on transportation technology deployment and day-to-day transportation system operations.

Tasks:

- Facilitate and participate in meetings and activities of the Regional Transportation Operations Working Group and other transportation incident management committees
- Monitor transportation technology deployment to ensure compliance with 23 CFR Part 940, including coordination with state and federal project clearance and the systems engineering analysis evaluation
- Assist project sponsors with DRCOG Regional ITS Architecture coordination as requested and implementation of RTO&T Set-Aside projects
- Maintain the DRCOG Regional ITS Architecture with participation of relevant stakeholders while coordinating with neighboring architectures, and incorporate technology and operations strategies into all applicable DRCOG activities and products
- Monitor and participate on national, state, regional, and local mobility technology efforts
- Maintain and update webmaps on traffic signals and other applicable efforts
- Coordinate with Advanced Mobility Partnership on regional transportation technology vision & implementation of AMP-championed initiatives

Deliverables:

2022

- Annual update to the DRCOG Regional ITS Architecture
- Updates (as needed) to the Regional Transportation Operations and Technology Plan

2023

- Final selection of projects for the RTO&T Set-Aside (FY 2024-26)
- Annual update to the DRCOG Regional ITS Architecture
- Updates (as needed) to the RTO&T Plan

Participants: DRCOG (lead), FHWA, CDOT, RTD, public highway authorities, public safety agencies, local governments (traffic, public safety, and information technology elements)

Activity 5.3 Transportation Security Planning

Purpose: Participate in security-related activities and develop planning products/methods that will be used to consider security in the process to identify, evaluate, and fund transportation projects.

Tasks:

- Participate on federal and state agency committees dealing with security and transportation, as requested
- Monitor and respond to federal rulemaking and guidance documents
- Liaise with the boards of Colorado's North Central All-Hazards Region and the Denver Urban Area Security Initiative
- Refine roles, establish and maintain relationships to existing documents and protocols (i.e., incident management plans, evacuation plans, training/exercise planning, and Regional ITS Architecture), and determine further activities with local stakeholders

Participants: DRCOG (lead), CDOT, RTD, local governments, Colorado Department of Public Safety, Division of Homeland Security and Emergency Management (North Central Region and Northeast Region), and others

Activity 5.4 Transportation Safety Planning

Purpose: Incorporate safety data and analyses into transportation planning and public awareness activities.

Tasks:

- Geocode and perform quality checks on crashes in the Denver region that are off the state highway system, as data is made available. House and update the annual crash database of all crashes in the region and disseminate data
- Prepare crash and safety analyses, as needed
- Respond to requests for information
- Coordinate with corridor planning initiatives on safety-related aspects
- Maintain, implement, and update Taking Action on Regional Vision Zero, including hosting monthly Regional Vision Zero Work Group meetings to coordinate implementation activities
- Identify priority initiatives in Taking Action on Regional Vision Zero and prioritize 2050 MVRTP safety projects for opportunities under the Federal Safe Streets and Roads for All grant program

Deliverables:

2022

- Update Taking Action on Regional Vision Zero High Injury Network

Participants: DRCOG (lead), CDOT, Colorado Department of Revenue

Activity 5.5 Innovative Mobility Planning

Purpose: Initiate, participate in, and support transportation technology and innovative mobility planning and strategic work in the Denver region, including implementation of tactical actions and other recommendations of the Mobility Choice Blueprint report and planning process, including work with the Advanced Mobility Partnership.

Tasks:

- Work with stakeholders to implement Mobility Choice Blueprint recommendations and other transportation technology and innovative mobility programs, policies, research, and projects in the region
- Host and coordinate Advanced Mobility Partnership Executive Committee (quarterly), Working Group (monthly), and Steering Committee meetings
- Host and lead the regional Micromobility Work Group
- Implement regional shared micromobility framework and procedures, including shared micromobility data platform project and technical support for member governments
- Monitor and provide educational opportunities to highlight transportation technology-related pilots, programs, and services in the region
- Participate in national conversations on mobility data through the Open Mobility Foundation and other industry organizations
- Evaluate and identify potential regional demonstration projects focused on advanced technologies and systems to improve transportation efficiency and safety for potential funding under the Federal SMART program

Deliverables:

2022

- Shared micromobility data platform pilot evaluation
- Regional inventory of emerging and innovative mobility programs, projects and pilots

Participants: DRCOG (lead), CDOT, RTD, local governments

OBJECTIVE 6.0 PUBLIC TRANSPORTATION PLANNING

Plan and operate rapid transit corridors, the regional bus network, and transit facilities.

Activity 6.1 Regional Transit/Human Service Transportation Planning and Coordination

Purpose: Improve regional transit access and mobility through increased planning and coordination.

Tasks:

- Work with the Denver Regional Mobility and Access Council (DRMAC), DRCOG's Area Agency on Aging (AAA), Local Coordinating Councils (LCCs), and other stakeholders to coordinate human service transportation
- Compile ongoing service data from RTD to use for the travel model, plans, reports, and other activities as needed
- Maintain a performance tracking report on TIP funded transit projects
- Continue TIP Set-Aside implementation with CDOT of the Human Services Set-Aside and FTA 5310 funding in the Denver-Aurora Urbanized Area
- Maintain and update Project Management Plan for 5310 Program
- Maintain and update Coordinated Public Transit-Human Services Transportation Plan (Coordinated Transit Plan)

Participants: DRCOG (lead), RTD, CDOT, DRMAC and others

Activity 6.2 FasTracks Review and Assessment

Purpose: Review and assess the status of FasTracks with respect to State Senate Bill 90-208 (SB-208) as directed by the DRCOG Board (such as through Resolution #14, 2013).

Tasks:

- Complete the review and assessment of RTD FasTracks Change Report(s), as needed (If consultant assistance is required for DRCOG financial plan review of an RTD Change Report, RTD would provide funding for the financial consulting effort)
- Based on DRCOG review and assessment of RTD Change Report(s), take further action pursuant to SB-208, and/or amend the 2050 MVRTP, if needed
- Provide RTD's annual FasTracks Status Report to the DRCOG Board (due annually to DRCOG by May 1st)

Deliverables:

2022

- DRCOG review and assessment of RTD Change Report(s), when/if submitted by RTD. If needed, subsequent SB-208 action and/or 2050 MVRTP amendment
- RTD 2022 FasTracks Annual Status Report

2023

- DRCOG review and assessment of RTD Change Report(s), when/if submitted by RTD. If needed, subsequent SB-208 action and/or 2050 MVRTP amendment
- RTD 2023 FasTracks Annual Status Report

Participants: DRCOG, RTD

Activity 6.3 RTD Local Government Planning Process

Purpose: Provide a mechanism that incorporates the input of local governmental jurisdictions into the RTD Mid-term Financial Plan/FTA Program of Projects and other RTD planning activities.

Tasks:

- Gather input from local government representatives for RTD’s Mid-term Financial Plan capital projects and annual service plan changes
- Conduct coordinated public involvement efforts associated with RTD products such as environmental studies and other planning activities

Participants: RTD (lead), local governments, DRCOG

Activity 6.4 RTD Financial Planning

Purpose: To prepare the RTD Mid-term Financial Plan/FTA Program of Projects for the 2023-2028 and the 2024-2029 time frames.

Task:

- Forecast revenues and expenditures
- Evaluate the RTD base system and the FasTracks program

Deliverables:

2022

- 2023-2028 Mid-term Financial Plan for input into the TIP

2023

- 2024-2029 Mid-term Financial Plan for input into the TIP

Participants: RTD

Activity 6.5 RTD Base System Planning

Purpose: Provide base system-level planning for the rapid transit corridors, the regional bus network, and transit facilities.

Tasks:

- Continue oversight of base system planning process
- Conduct other assorted engineering, planning, and environmental activities

Participants: RTD (Lead), DRCOG, CDOT

Activity 6.6 Transit Facility Planning

Purpose: Research and report on Park-n-Ride use and plan for and implement transit oriented development in conjunction with the planning and development of FasTracks and at existing transit stations and Park-n-Rides. This is done in partnership with local government jurisdictions, the development community, and other key stakeholders.

Tasks:

- Prepare quarterly Park-n-Ride use reports and biannual user distribution geocoding and mapping
- Participate in local jurisdiction land-use planning processes for station areas
- Pursue joint development at RTD transit stations where practical and consistent with local government land use plans and state law governing eminent domain and RTD operations
- Monitor and evaluate transit priority implementation in the region
- CDOT and RTD led Mobility Hub planning at priority locations identified in partnership among RTD, CDOT, and DRCOG
- Benchmark Transit Oriented Development (TOD) activity in annual status report and FasTracks Quality of Life study
- Provide ongoing TOD education and outreach

- Support facility planning

Deliverables:

2022

- Mobility Hub plan(s) (carryover from FY 2020-2021 UPWP)
- State of transit priority implementation report

Participants: RTD (lead), CDOT, DRCOG, local governments

Activity 6.7 FasTracks Program Management and Planning Assistance

Purpose: Oversee and manage engineering, planning, environmental, project controls, and construction management activities for FasTracks (consultant assistance may be required).

Tasks:

- Prepare necessary environmental documentation for Northwest Rail Corridor Starter Service
- Prepare basic design plans to determine station locations, environmental impacts and costs for Northwest Rail Corridor Starter Service
- Prepare FasTracks Change Report(s) for DRCOG

Deliverables:

2022

- FasTracks Change Report (if needed)

2023

- FasTracks Change Report (if needed)

Participants: RTD and DRCOG

OBJECTIVE 7.0 PLANNING DATA AND MODELING

Acquire and maintain critical data and forecasting tools to support the region's transportation and land use planning activities.

Activity 7.1 Develop and Maintain Information Systems

Purpose: Provide regional resources for the research, development, and deployment of tools and technologies, and provide data and information that support UPWP activities.

Tasks:

- Develop, maintain, and update data, tools, applications, and visualizations that allow internal and external users to explore and consume information
- Coordinate the acquisition of regional datasets (i.e., DRAPP, Regional Planimetric Data Projects, Regional Land Use Land Cover Projects, Regional Lidar Projects, etc.)
- Maintain internal processes and infrastructure in support of data, application, and tool development
- Complete the local data collection and regional dataset creation efforts
- Maintain inventory of protected data and perform audits to ensure data is properly handled

Deliverables:

2022

- Agency-wide cloud storage data and document migration (carryover from FY 2020-2021 UPWP)
- Annual local data inventory
- 2020 Denver Regional Planimetric Project deliverables (carryover from FY 2020-2021 UPWP)
- 2020 Regional Land Cover Project deliverables

2023

- 2022 DRAPP deliverables
- Annual local data inventory

Participants: DRCOG (lead), local governments

Activity 7.2 Land Use Modeling and Forecasting

Purpose: Maintain, operate, and enhance the land use modeling and forecasting tools.

Tasks:

- Collect, compile, and purchase data to update and improve UrbanSim model inputs (i.e., employment, zoning/development constraints, scheduled development)
- Document, automate, and improve model input and output processing workflows and storage routines
- Coordinate with the State Demography Office at DOLA in their updates to household and employment control totals
- Improve the ability of UrbanSim to handle multiple, complex control total options
- Update UrbanSim choice models (i.e., specification, estimation, and calibration) and pursue other improvements and enhancements to the UrbanSim model as needed
- Coordinate with other MPOs and peer agencies using the UrbanSim model

- Prepare new forecast runs annually in anticipation of potential amendment cycles; incorporate feedback from local governments as needed

Deliverables:

2022

- Small-area forecast data on the Regional Data Catalog when reviewed and used in an amendment cycle (if any)

2023

- Small-area forecast data on the Regional Data Catalog when reviewed and used in an amendment cycle (if any)

Participants: DRCOG (lead), local governments, DOLA

Activity 7.3 Transportation Modeling and Forecasting

Purpose: Maintain, operate, expand, and refine the transportation modeling and forecasting tools.

Tasks:

- Provide travel model data results in support of requests by planning partners, local governments, and private firms
- Continue efforts to improve and streamline Focus, DRCOG’s regional travel demand forecasting model, including work with RTD and CDOT to evaluate methods for improving model components
- Evaluate travel demand data sources (U.S. Census, CDOT, RTD, and others) for use in model component validation efforts
- Align Focus with UrbanSim model inputs (carryover from FY 2020-2021 UPWP)
- Evaluate implementing the Caliper Highway/Transit Master Network (for maintaining different projects) or other model process enhancements (carryover from FY 2020-2021 UPWP)
- Maintain a cohesive storage area to keep all travel model related files including documentation, scenario analysis, calibrations, and inputs and outputs for MVRTP Cycle runs
- Participate on CDOT-led Statewide Travel Surveys Project in 2022 (DRCOG’s funding contribution split between FY2021 and FY2022) (carryover from FY 2020-2021 UPWP); work with consultant on travel survey results report for DRCOG region. Begin preparation of public facing summary document of travel survey results
- Update the Commercial Vehicle Travel Model following completion of the statewide travel surveys (carryover from FY 2020-2021 UPWP)
- Conduct modeling research and documentation

Deliverables:

2022

- Updated and validated Focus model runs and output data files used for air quality conformity determinations and other studies

2023

- Fully recalibrated and validated Focus model incorporating outputs of the statewide travel surveys
- Model runs and output data files used for air quality conformity determinations and other studies

Participants: DRCOG (lead), CDOT, RTD

Activity 7.4 Maintain Transportation and Related Data

Purpose: Obtain, maintain, and distribute transportation and related data to be used in the regional transportation planning process.

Tasks:

- Collect and process local government receipts and expenditure data, state and local roadway inventory data, and bridge data from CDOT, incorporating it into DRCOG databases
- Collect and process traffic counts from CDOT and all member governments and consultants, perform quality control, add to the traffic count database, and update traffic count webmap
- Improve methods for calculations of greenhouse gas and air quality measures
- Collect transit ridership, Park-n-Ride lot user data, and other transit-related data from RTD
- Obtain bridge and pavement condition data from CDOT and local governments, as needed
- Edit the transportation information database per plan amendment and update various travel model networks staging respectively

Deliverables:

2023

- Transportation Improvement Survey

Participants: DRCOG (lead), CDOT, RTD, local governments

Activity 7.5 Regional Mobility Data Platform

Purpose: Identify opportunities and tools to effectively collect, manage, and maintain transportation data from transportation providers.

Tasks:

- Work with AMP partners to refine concept and use cases for a regional mobility data platform
- Explore different models and identify data management practices for a regional mobility data platform
- Prepare concept paper

Deliverables:

2022

- Regional mobility data platform concept paper

Participants: DRCOG (lead), CDOT, RTD, local governments

V. OTHER MAJOR PLANNING ACTIVITIES

The following sections describe other major planning activities that will be ongoing during FY 2022-2023.

Identified in a previous/current Transportation Improvement Program

SPONSOR	DESCRIPTION
Roadway and/or Transit-Related Study (Corridor/Interchange/Operational Studies/EA/EIS)	
Adams County	<ul style="list-style-type: none"> I-270 Corridor Environmental Assessment (carryover from FY 2020-2021 UPWP)
Arapahoe County	<ul style="list-style-type: none"> Parker Rd. PEL Study: Mississippi Ave. to Hampden Ave. (carryover from FY 2020-2021 UPWP) US-85 PEL Study: C-470 to I-25 (carryover from FY 2020-2021 UPWP)
Aurora	<ul style="list-style-type: none"> 13th Ave. Corridor Multimodal Mobility Study (carryover from FY 2020-2021 UPWP)
Boulder County	<ul style="list-style-type: none"> US-287 BRT Feasibility & Safety Study: Longmont to Broomfield
Broomfield	<ul style="list-style-type: none"> Active Transportation Wayfinding Pilot (carryover from FY 2020-2021 UPWP) Broomfield Transit Needs Assessment & Pilot Project (carryover from FY 2020-2021 UPWP) Midway Blvd. Multimodal Corridor Action Plan (carryover from FY 2020-2021 UPWP) SH-7 Preliminary and Environmental Engineering US-287/120th Ave. Multimodal & Safety Study (carryover from FY 2020-2021 UPWP)
CDOT Region 1	<ul style="list-style-type: none"> C-470: Wadsworth to I-70 (carryover from FY 2020-2021 UPWP)
CDOT Region 4	<ul style="list-style-type: none"> SH-52 PEL Study: SH-119 to I-76 (carryover from FY 2020-2021 UPWP)
Commerce City	<ul style="list-style-type: none"> 88th Ave. NEPA Study: I-76 to Hwy 2
Denver	<ul style="list-style-type: none"> Transit Speed & Reliability on Federal Blvd. (carryover from FY 2020-2021 UPWP)
Englewood	<ul style="list-style-type: none"> US-285 Congestion Management Study (carryover from FY 2020-2021 UPWP)
Jefferson County	<ul style="list-style-type: none"> Front Range Trail Study (carryover from FY 2020-2021 UPWP) Jefferson County Bike Master Plan Update (carryover from FY 2020-2021 UPWP)
Littleton	<ul style="list-style-type: none"> Broadway Corridor Study
Lone Tree	<ul style="list-style-type: none"> I-25/Lincoln Ave. Traffic and Mobility Improvements (carryover from FY 2020-2021 UPWP)
RAQC	<ul style="list-style-type: none"> Ozone State Implementation Plan (SIP) Modeling Study (carryover from FY 2020-2021 UPWP)
RTD	<ul style="list-style-type: none"> Mobility as a Service: Implementing an Open-Ticketing Platform (carryover from FY 2020-2021 UPWP) RTD T2 Comprehensive Plan (carryover from FY 2020-2021 UPWP) Underserved Transit Needs Study

Planning-Related Studies

Adams County	<ul style="list-style-type: none"> • SW County Sidewalk Community Prioritization Planning (carryover from FY 2020-2021 UPWP)
Boulder	<ul style="list-style-type: none"> • Curbside Management Policy and Program (carryover from FY 2020-2021 UPWP)
Castle Rock	<ul style="list-style-type: none"> • Downtown Alley Master Plan (carryover from FY 2020-2021 UPWP)
Denver	<ul style="list-style-type: none"> • Mobility Choice Network • Passenger Amenity Program
Edgewater	<ul style="list-style-type: none"> • Sheridan Corridor Master Plan: Sloan's Lake (carryover from FY 2020-2021 UPWP)
Sheridan	<ul style="list-style-type: none"> • Safe Stops Through Sheridan
Thornton	<ul style="list-style-type: none"> • Eastlake Streetscape Conceptual Plan (carryover from FY 2020-2021 UPWP)
West Colfax BID	<ul style="list-style-type: none"> • Colfax Viaduct Planning Study (carryover from FY 2020-2021 UPWP)

Colorado Department of Transportation, Division of Transportation Development – State Planning and Research Program (Summary)

SPONSOR	DESCRIPTION
CDOT	<ul style="list-style-type: none"> • Greenhouse Gas Planning and Reporting • Inland Port Study • Maintain / Update 10-Year Plan • State Freight and Passenger Rail Plan Update • Truck Parking Planning and Outreach

Non-Federally Funded & Local Governments Planning Activities

SPONSOR	DESCRIPTION	ESTIMATED COST
Arapahoe County	<ul style="list-style-type: none"> • Fiber Optic Master Plan 	\$125,000
Bennett	<ul style="list-style-type: none"> • SH-79 Access Control Plan • Town Transportation Plan 	\$25,000 \$150,000
Boulder County	<ul style="list-style-type: none"> • Coordinated Human Services Transportation Plan • E County Line Rd/WCR-1 Master Plan • Peak Ride Volunteer Driver Plan • RTD Rail Regional Trail Master Plan • School Travel and Housing Engagement Study • Technology Education Program 	\$80,000 \$250,000 \$50,000 \$300,000 \$50,000 \$50,000
Castle Rock	<ul style="list-style-type: none"> • SH-86 Corridor Study: Franktown to US-85 (carryover from FY 2020-2021 UPWP) 	\$1,000,000
Commerce City	<ul style="list-style-type: none"> • Comprehensive Plan Update • Economic Development Strategic Plan Update • Parks, Recreation, Golf Master Plan Update • Transportation Master Plan Update 	\$300,000 \$67,000 \$150,000 \$200,000
Denver	<ul style="list-style-type: none"> • Colfax BRT NEPA (carryover from FY 2020-2021 UPWP) • Denver Strategic Transportation Plan/Denver Moves Everyone (carryover from FY 2020-2021 UPWP) • Downtown Denver Moves: Transit Phase 2 (carryover from FY 2020-2021 UPWP) • Far Northeast Next Steps Study • Federal Boulevard Alternatives Analysis (carryover from FY 2020-2021 UPWP) • Montbello Transit Service Study • Speed and Reliability Network Study • TDM Plan • West Area Plan (carryover from FY 2020-2021 UPWP) 	\$4,550,000 \$4,000,000 \$312,000 \$250,000 \$316,000 \$62,000 \$350,000 \$250,000 \$370,000
Englewood	<ul style="list-style-type: none"> • Transportation Master Plan 	\$180,000
Jefferson County Open Space	<ul style="list-style-type: none"> • Accessibility Audit and Transition Plan 	\$200,000
Lafayette	<ul style="list-style-type: none"> • Multimodal Transportation Plan (carryover from FY 2020-2021 UPWP) 	\$250,000
Louisville	<ul style="list-style-type: none"> • Comprehensive Plan Update 	\$250,000
Thornton	<ul style="list-style-type: none"> • Parks and Open Space Plan 	No Cost Estimate

APPENDIX A
PROGRAM FINANCING TABLES

Table 1. FY 2022 and FY 2023 UPWP Revenue Sources

Funding Source	Recipient	Federal Funding	DRCOG		RTD		Total
			Cash Match	In-Kind Match			
FY 2022 CPG*	DRCOG	\$ 5,055,654	\$ 262,736	\$ 788,209	\$	\$ 6,106,600	
FY 2023 CPG	DRCOG	\$ 6,686,783	\$ 347,504	\$ 1,042,513	\$	\$ 8,076,800	
FY 2020/FY 2021 Carryover	DRCOG	\$ 6,037,474	\$ 313,761	\$ 941,282	\$	\$ 7,292,516	
Total Available Funding		\$ 17,779,911	\$ 924,001	\$ 2,772,004	\$	\$ 21,475,916	

*\$1,500,000 in federal funds are being held back at CDOT for DRCOG's FY2022 contribution towards the Statewide Travel Survey. (Total contribution is \$2 million, \$500,000 in FY2021 and \$1,500,000 in FY2022)
 NOTE: FY 2022 and FY 2023 CPG Federal Funding represent estimates based on the Infrastructure Investment and Jobs Act (2021) and will be refined when final apportionments are complete.

Table 2. FY 2022 and FY 2023 Anticipated UPWP Expenditures

FY 2022/2023 UPWP Objectives and Activities		Total Expenditures*								Total Anticipated Expenditures
		FY 2022				FY 2023				
		Total FY 2022	DRCOG Cash Match	RTD In-Kind Match	CPG (federal)	Total FY 2023	DRCOG Cash Match	RTD In-Kind Match	CPG (federal)	
Objective	1.0 Program Administration	\$ 1,036,401	\$ 44,591	\$ 133,774	\$ 858,037	\$ 1,072,578	\$ 46,148	\$ 138,443	\$ 887,988	\$ 2,108,980
Activity	1.1 Direct Program Management	\$ 523,660	\$ 22,530	\$ 67,591	\$ 433,538	\$ 543,224	\$ 23,372	\$ 70,117	\$ 449,735	\$ 1,066,884
Activity	1.2 DRCOG Staff Training and Development	\$ 329,035	\$ 14,157	\$ 42,470	\$ 272,408	\$ 337,769	\$ 14,532	\$ 43,597	\$ 279,639	\$ 666,804
Activity	1.3 Unified Planning Work Program	\$ 111,634	\$ 4,803	\$ 14,409	\$ 92,421	\$ 116,289	\$ 5,003	\$ 15,010	\$ 96,275	\$ 227,922
Activity	1.4 MPO Compliance	\$ 72,073	\$ 3,101	\$ 9,303	\$ 59,669	\$ 75,297	\$ 3,240	\$ 9,719	\$ 62,339	\$ 147,370
Objective	2.0 Planning Coordination and Outreach	\$ 1,132,731	\$ 48,736	\$ 146,207	\$ 937,788	\$ 1,180,164	\$ 50,777	\$ 152,330	\$ 977,057	\$ 2,312,895
Activity	2.1 DRCOG Public Engagement and Outreach	\$ 436,450	\$ 18,778	\$ 56,335	\$ 361,337	\$ 454,173	\$ 19,541	\$ 58,622	\$ 376,010	\$ 890,623
Activity	2.2 Local Government and Stakeholder Education, Outreach and Support	\$ 409,174	\$ 17,605	\$ 52,814	\$ 338,755	\$ 426,762	\$ 18,361	\$ 55,084	\$ 353,316	\$ 835,936
Activity	2.3 Regional Planning Coordination	\$ 287,107	\$ 12,353	\$ 37,058	\$ 237,696	\$ 299,228	\$ 12,874	\$ 38,623	\$ 247,731	\$ 586,336
Objective	3.0 Long Range Planning	\$ 3,043,990	\$ 130,968	\$ 392,903	\$ 2,520,119	\$ 3,253,458	\$ 139,980	\$ 419,940	\$ 2,693,538	\$ 6,297,448
Activity	3.1 Metro Vision Plan-Collaboration and Implementation Assistance	\$ 574,763	\$ 24,729	\$ 74,188	\$ 475,846	\$ 593,897	\$ 25,552	\$ 76,657	\$ 491,687	\$ 1,168,660
Activity	3.2 Metro Vision Plan-Research and Performance Management	\$ 194,678	\$ 8,376	\$ 25,128	\$ 161,174	\$ 202,703	\$ 8,721	\$ 26,164	\$ 167,817	\$ 397,381
Activity	3.3 Metro Vision Regional Transportation Plan	\$ 508,246	\$ 21,867	\$ 65,602	\$ 420,777	\$ 530,467	\$ 22,823	\$ 68,470	\$ 439,174	\$ 1,038,713
Activity	3.4 Federal Performance Measure Reporting	\$ 110,175	\$ 4,740	\$ 14,221	\$ 91,214	\$ 114,980	\$ 4,947	\$ 14,841	\$ 95,192	\$ 225,155
Activity	3.5 Air Quality and Conformity	\$ 156,724	\$ 6,743	\$ 20,229	\$ 129,752	\$ 163,736	\$ 7,045	\$ 21,134	\$ 135,557	\$ 320,460
Activity	3.6 Active Transportation and TDM Planning	\$ 302,195	\$ 13,002	\$ 39,006	\$ 250,187	\$ 377,514	\$ 16,243	\$ 48,728	\$ 312,544	\$ 679,709
Activity	3.7 Regional Freight Planning	\$ 45,947	\$ 1,977	\$ 5,931	\$ 38,040	\$ 48,003	\$ 2,065	\$ 6,196	\$ 39,742	\$ 93,950
Activity	3.8 Corridor Planning	\$ 895,116	\$ 38,512	\$ 115,537	\$ 741,067	\$ 962,879	\$ 41,428	\$ 124,284	\$ 797,167	\$ 1,857,995
Activity	3.9 Community Based Transportation Plans	\$ 256,144	\$ 11,021	\$ 33,062	\$ 212,062	\$ 259,279	\$ 11,155	\$ 33,466	\$ 214,657	\$ 515,424
Objective	4.0 Project Programming	\$ 484,608	\$ 20,850	\$ 62,551	\$ 401,207	\$ 493,555	\$ 21,235	\$ 63,706	\$ 408,614	\$ 978,162
Activity	4.1 Prepare Transportation Improvement Program	\$ 147,003	\$ 6,325	\$ 18,974	\$ 121,704	\$ 136,969	\$ 5,893	\$ 17,679	\$ 113,397	\$ 283,972
Activity	4.2 Transportation Improvement Program Set-Asides	\$ 171,629	\$ 7,384	\$ 22,153	\$ 142,091	\$ 175,242	\$ 7,540	\$ 22,619	\$ 145,083	\$ 346,871
Activity	4.3 Transportation Improvement Program Management	\$ 165,976	\$ 7,141	\$ 21,423	\$ 137,412	\$ 181,344	\$ 7,802	\$ 23,407	\$ 150,134	\$ 347,320
Objective	5.0 Transportation Operations	\$ 846,618	\$ 36,426	\$ 109,277	\$ 700,915	\$ 806,748	\$ 34,710	\$ 104,131	\$ 667,907	\$ 1,653,366
Activity	5.1 DRCOG Congestion Management Process	\$ 163,858	\$ 7,050	\$ 21,150	\$ 135,658	\$ 171,016	\$ 7,358	\$ 22,074	\$ 141,584	\$ 334,874
Activity	5.2 Regional Transportation Operations and Technology	\$ 89,989	\$ 3,872	\$ 11,615	\$ 74,502	\$ 94,015	\$ 4,045	\$ 12,135	\$ 77,835	\$ 184,004
Activity	5.3 Transportation Security Planning	\$ 8,290	\$ 357	\$ 1,070	\$ 6,864	\$ 8,661	\$ 373	\$ 1,118	\$ 7,171	\$ 16,952
Activity	5.4 Transportation Safety Planning	\$ 450,684	\$ 19,391	\$ 58,172	\$ 373,121	\$ 393,273	\$ 16,921	\$ 50,762	\$ 325,591	\$ 843,957
Activity	5.5 Innovative Mobility Planning	\$ 133,797	\$ 5,757	\$ 17,270	\$ 110,771	\$ 139,783	\$ 6,014	\$ 18,043	\$ 115,726	\$ 273,580
Objective	6.0 Public Transportation Planning	\$ 650,812	\$ 28,001	\$ 84,004	\$ 538,808	\$ 657,559	\$ 28,291	\$ 84,874	\$ 544,393	\$ 1,308,372
Activity	6.1 Regional Transit/Human Service Transportation Planning and Coordination	\$ 76,827	\$ 3,305	\$ 9,916	\$ 63,605	\$ 80,265	\$ 3,453	\$ 10,360	\$ 66,451	\$ 157,092
Activity	6.2 FasTracks Review and Assessment	\$ 17,081	\$ 735	\$ 2,205	\$ 14,141	\$ 17,845	\$ 768	\$ 2,303	\$ 14,774	\$ 34,926
Activity	6.3 RTD and CDOT Local Government Planning Process	\$ 13,938	\$ 600	\$ 1,799	\$ 11,539	\$ 14,561	\$ 626	\$ 1,879	\$ 12,055	\$ 28,499
Activity	6.4 RTD Financial Planning	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Activity	6.5 RTD Base System Planning	\$ 11,569	\$ 498	\$ 1,493	\$ 9,578	\$ 12,087	\$ 520	\$ 1,560	\$ 10,007	\$ 23,656
Activity	6.6 Transit Facility Planning	\$ 531,397	\$ 22,863	\$ 68,590	\$ 439,944	\$ 532,802	\$ 22,924	\$ 68,771	\$ 441,106	\$ 1,064,199
Activity	6.7 FasTracks Program Management and Planning Assistance	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Objective	7.0 Support Systems for Planning	\$ 1,911,813	\$ 82,256	\$ 246,767	\$ 1,582,790	\$ 1,977,376	\$ 85,077	\$ 255,230	\$ 1,637,069	\$ 3,889,189
Activity	7.1 Develop and Maintain Information Systems	\$ 666,535	\$ 28,678	\$ 86,033	\$ 551,824	\$ 689,446	\$ 29,663	\$ 88,990	\$ 570,792	\$ 1,355,980
Activity	7.2 Land Use Modeling and Forecasting	\$ 493,057	\$ 21,214	\$ 63,641	\$ 408,202	\$ 506,492	\$ 21,792	\$ 65,376	\$ 419,325	\$ 999,549
Activity	7.3 Transportation Modeling and Forecasting	\$ 517,868	\$ 22,281	\$ 66,844	\$ 428,743	\$ 539,426	\$ 23,209	\$ 69,626	\$ 446,590	\$ 1,057,293
Activity	7.4 Maintain Transportation and Related Data	\$ 104,912	\$ 4,514	\$ 13,541	\$ 86,856	\$ 109,213	\$ 4,699	\$ 14,097	\$ 90,418	\$ 214,125
Activity	7.5 Regional Mobility Platform	\$ 129,443	\$ 5,569	\$ 16,708	\$ 107,166	\$ 132,799	\$ 5,714	\$ 17,141	\$ 109,944	\$ 262,241
FY 2022/2023 Anticipated Expenditures		\$ 9,106,974	\$ 391,828	\$ 1,175,483	\$ 7,539,663	\$ 9,441,438	\$ 406,218	\$ 1,218,654	\$ 7,816,566	\$ 18,548,411

*Total expenditures include CPG, cash match, and RTD in-kind match.

Anticipated Unused FY 22/23 Contract Funds (Carryover to FY 24/25) \$ 2,927,505

Note: In-kind match provided by RTD for transit-related activities is proportionately distributed among all UPWP activities.

TOTAL Funding Available \$ 21,475,916

ATTACH C

ATTACHMENT C

To: Chair and Members of the Regional Transportation Committee

From: Josh Schwenk, Assistant Planner, Transportation Planning & Operations
jschwenk@drcog.org

Meeting Date	Agenda Category	Agenda Item #
February 15, 2022	Action	5

SUBJECT

FY 2022-2025 Transportation Improvement Program (TIP) Amendments.

PROPOSED ACTION/RECOMMENDATIONS

DRCOG staff recommends approval of the proposed amendments because they comply with the current TIP amendment procedures, as contained within the Board-adopted [2020-2023 TIP Policy](#).

ACTION BY OTHERS

[January 24, 2022](#) – TAC Recommended Approval

SUMMARY

DRCOG's transportation planning process allows for Board-approved amendments to the current Transportation Improvement Program (TIP) on 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 TIP.

The TIP projects to be amended are shown below and listed in Attachment 1. The proposed amendments to the [FY 2022-2025 Transportation Improvement Program](#) have been found to conform with the State Implementation Plan for Air Quality.

TIP Amendments

- **2020-068** **I-270 Corridor Environmental Assessment**
Increase funding and scope.
- **New Project** **I-70 Floyd Hill**
Add new project.

PREVIOUS DISCUSSIONS/ACTIONS

N/A

PROPOSED MOTION

Move to recommend to the Board the attached amendments to the *2022-2025 Transportation Improvement Program (TIP)*.

ATTACHMENT

1. Proposed TIP amendments

ADDITIONAL INFORMATION

If you need additional information, please contact Josh Schwenk, Assistant Planner, Transportation Planning and Operations Division at jschwenk@drcog.org.

2020-068: Add \$30,000,000 in state Legislative funding and adjust scope to include preconstruction and early action projects

Existing

Title: **I-270 Corridor Environmental Assessment**

Project Type: **Roadway/Transit Studies**

TIP-ID: **2020-068**

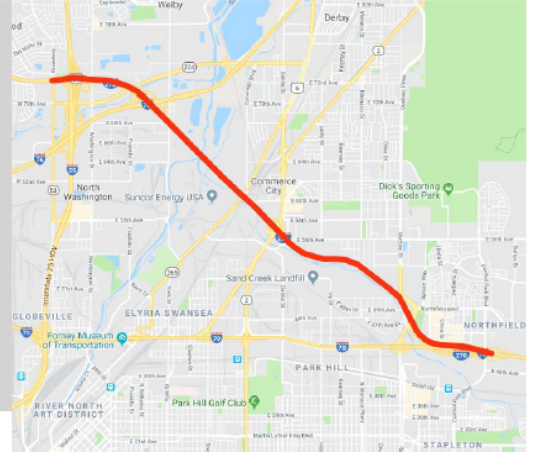
STIP-ID:

Open to Public: **2022**

Sponsor: **Adams County**

Project Scope

Environmental Assessment and preliminary design to address safety, reliability, and operational issues along the entire corridor.



Affected Municipality(ies)
Commerce City
Denver
Unincorporated

Affected County(ies)
Adams
Denver

Performance Measures	
<input checked="" type="checkbox"/>	Bridge Condition
<input checked="" type="checkbox"/>	Congestion
<input checked="" type="checkbox"/>	Freight Reliability
<input checked="" type="checkbox"/>	Pavement Condition
<input checked="" type="checkbox"/>	Safety
<input type="checkbox"/>	Transit Assets
<input type="checkbox"/>	Transit Safety
<input checked="" type="checkbox"/>	Travel Time Reliability

Amounts in \$1,000s	Prior Funding	FY22	FY23	FY24	FY25	Future Funding	Total Funding
Federal (STBG)		\$0	\$0	\$0	\$0		
State		\$0	\$0	\$0	\$0		
Local		\$0	\$0	\$0	\$0		
Total	\$5,300	\$0	\$0	\$0	\$0	\$0	\$5,300

Revised

Title: **I-270 Corridor Improvements**

Project Type: **Roadway Operational Improvements**

TIP-ID: **2020-068**

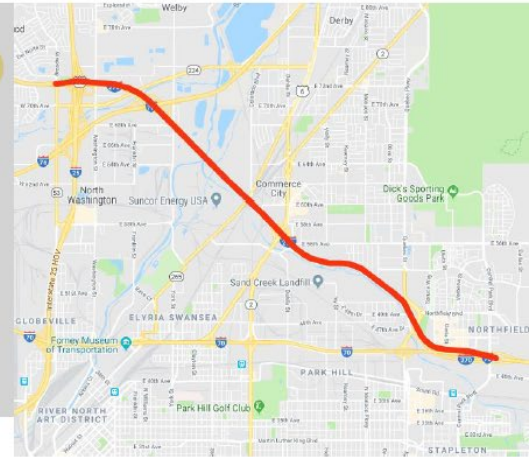
STIP-ID:

Open to Public: **2025**

Sponsor: **Adams County**

Project Scope

Environmental Assessment, **preconstruction activities**, and early action projects to address safety, reliability, and operational issues along the entire corridor.



Amounts in \$1,000s	Prior Funding	FY22	FY23	FY24	FY25	Future Funding	Total Funding
Federal		\$0	\$0	\$0	\$0	\$0	
Federal (STBG)		\$0	\$0	\$0	\$0	\$0	
State		\$0	\$0	\$0	\$0	\$0	
State (Leg)		\$5,000	\$15,000	\$10,000	\$0	\$0	
Local		\$0	\$0	\$0	\$0	\$0	
Total	\$5,300	\$5,000	\$15,000	\$10,000	\$0	\$0	\$35,300

New Project: Add new project for the Jefferson County (MPO) portion of the I-70 Floyd Hill project. Total project cost is \$11,000,000

New Project

Title: **I-70 Floyd Hill Improvements**

Project Type: **Roadway Operational Improvements**

TIP-ID: **Request**

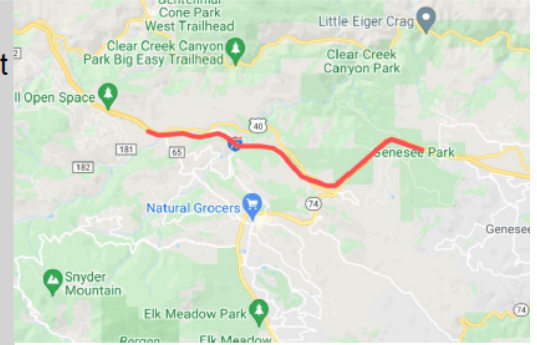
STIP-ID:

Open to Public: **2024**

Sponsor: **CDOT Region 1**

Project Scope

Construct improvements associated with the portion of the I-70 Floyd Hill project within Jefferson County, including Genesee wildlife crossing, US-40/CR-65 roundabout, and other early action elements.



Affected Municipality(ies)

Unincorporated

Affected County(ies)

Jefferson

Performance Measures

- Bridge Condition
- Congestion
- Freight Reliability
- Pavement Condition
- Safety
- Transit Assets
- Transit Safety
- Travel Time Reliability

Amounts in \$1,000s	Prior Funding	FY22	FY23	FY24	FY25	Future Funding	Total Funding
Federal		\$0	\$0	\$0	\$0		
State (Leg)		\$3,000	\$8,000	\$0	\$0		
Local		\$0	\$0	\$0	\$0		
Total		\$0	\$3,000	\$8,000	\$0	\$0	\$11,000

ATTACH D

ATTACHMENT D

To: Chair and Members of the Regional Transportation Committee

From: Nisha Mokshagundam, Way to Go Manager
303-480-6777 or nmokshagundam@drcog.org

Meeting Date	Agenda Category	Agenda Item #
February 15, 2022	Action	6

SUBJECT

FY 2020-2023 Transportation Demand Management (TDM) Services set-aside project funding recommendations

PROPOSED ACTION/RECOMMENDATIONS

Staff recommends approval of the projects proposed by the TDM set-aside Project Review Panel

ACTION BY OTHERS

[January 24, 2022](#) – TAC Recommended Approval

SUMMARY

The [2020-2023 TIP Policy](#) established \$1.8 million in federal funds for TDM non-infrastructure projects over the four-year period. The 2022-2023 call for projects was for \$900,000 plus \$74,000 returned from the previous cycle, for a total of \$974,000. The purpose of the TDM Services set-aside is to support marketing, outreach and research projects that reduce traffic congestion and improve air quality.

In September 2021, after conducting a workshop for potential applicants, DRCOG issued a call for letters of intent, followed by a call for applications which were due October 25, 2021. A total of 11 final applications were submitted for consideration (Attachment 2), with a total request for federal funding of \$1,451,113.

Staff convened a review panel consisting of three internal and five external participants who first submitted project scores based on approved criteria, then met to review and discuss each project. Separately, DRCOG technical staff scored projects based on data-driven elements. The panel convened twice in December 2021 and January 2022 to review and discuss, and in January a final ranking and funding recommendation was put forth.

The review panel recommends the following projects for funding:

Project Sponsor	Project Title	Recommended Award
Transportation Solutions	Pandemic Recovery and TDM Marketing Campaign	\$173,859
Community Cycles	Ride by Ebike	\$82,790
West Corridor	Culturally Sensitive Encouragement and Marketing Campaigns	\$82,790

West Corridor	Colfax Safety Project Outreach	\$28,976
Downtown Denver Partnership	Denver Open Streets	\$254,726
City of Aurora & NETC	Aurora Aerotropolis/I-70 Corridor TDM Program Development and Implementation	\$107,627
Commuting Solutions	Expansion of B-Cycle Bikeshare System - Feasibility Study	\$66,232
DRMAC	Getting There Travel Training	\$177,000
Recommendation Total		\$974,000
Planning Funding Available		\$974,000

PREVIOUS DISCUSSIONS/ACTIONS

[June 28, 2021](#) - TAC recommended approval of the eligibility rules and process
[July 20, 2021](#) - RTC recommended approval of eligibility rules and process
[July 21, 2021](#) - Board approved eligibility rules and process

PROPOSED MOTION

Move to recommend to the Board the eight recommended projects be funded through the TDM Services Set-Aside of the DRCOG 2020–2023 TIP.

ATTACHMENTS

1. Staff presentation
2. List of all project submissions

ADDITIONAL INFORMATION

If you need additional information, please contact Nisha Mokshagundam, Way to Go Manager, at (303) 480-6777 or nmokshagundam@drco.org.

FISCAL YEAR 2022-2023 TRANSPORTATION DEMAND MANAGEMENT SERVICES SET-ASIDE

Funding recommendations

Nisha Mokshagundam

Way to Go Manager

Denver Regional Council of Governments

nmokshagundam@drcog.org

Steve Erickson

Communications and Marketing Director

Denver Regional Council of Governments

serickson@drcog.org

Purpose: to support marketing, outreach and research projects that reduce single-occupant vehicle travel

Program goals:

- Reduce traffic congestion.
- Improve air quality.
- Pilot new approaches to transportation demand management.
- Support healthy and active choices.
- Improve awareness and access to mobility options for people of all ages, incomes and abilities.

Funding available 2022-2023 call:

- \$900,000 from 2-year set-aside, plus:
- \$74,000 in returned funds from 2021
- Total: **\$974,000**

Approved criteria and process:

- Review panel scored on criteria focused on vehicle miles of travel reduction, innovation and replicability.
- Staff scored on data-driven elements such as DRCOG urban centers, environmental justice areas and short-trip opportunity zones.
- Review panel convened to discuss, rank and recommend projects.

DRCOG review panel included internal and external stakeholders:

- **DRCOG:**

- Communications and Marketing, Way to Go Manager
- Communications and Marketing, Research and Program Evaluation
- Transportation Planning and Operations, Transportation Technology Strategist

- **External panelists:**

- Colorado Department of Transportation
- Regional Air Quality Council
- Colorado Department of Public Health and Environment
- Regional Transportation District
- Mile High Connects

Application timeline:

- **Sept. 10, 2021:** DRCOG hosts application workshop
- **Sept. 24, 2021:** Letters of Intent due
- **Oct. 1, 2021:** Letters of Concurrence due to CDOT or RTD (if required)
- **Oct. 25, 2021:** applications due
- **November, December and January:** panel discussion, scoring and recommendations

DRCOG received 11 applications.

Total federal request: \$1,451,113



RECOMMENDED PROJECTS



RECOMMENDED PROJECTS

Project sponsor	Project title	Recommended award
Transportation Solutions	Pandemic Recovery and TDM Marketing Campaign	\$173,859
Community Cycles	Ride By e-Bike	\$82,790
West Corridor	Culturally-Sensitive Encouragement and Marketing Campaigns	\$82,790
West Corridor	Colfax Project Safety Outreach	\$28,976
Downtown Denver Partnership	Denver Open Streets	\$254,726
City of Aurora and NETC	Aurora Aerotropolis/I-70 Corridor TDM Program Development and Implementation	\$107,627
Commuting Solutions	Expansion of B-Cycle Bikeshare System Feasibility Study	\$66,232
DRMAC	Getting There Travel Training	\$177,000
Recommendation total		\$974,000
Funding available		\$974,000

Move to recommend to the Board the eight recommended projects be funded through the **TDM Services Set-Aside** of the **DRCOG 2020–2023 TIP**.



THANK YOU!
QUESTIONS?

Nisha Mokshagundam
nmokshagundam@drcog.org

Steve Erickson
serickson@drcog.org

FY 2022-2023 TDM Services Set-Aside Applications and Funding Recommendation

Project Sponsor	Project Title	Project Overview
Transportation Solutions	Pandemic Recovery and TDM Marketing Campaign	This proposal seeks to encourage employers in the Cherry Creek and Glendale neighborhoods to offer transportation benefit packages to employees as a recruitment and retention incentive. Project sponsors will assess employee commute needs through surveys, home-end density maps and focus groups, while employers will pay for transportation benefit packages. Sponsors anticipate participation due to many Cherry Creek employees soon losing free parking.
Community Cycles	Ride By e-Bike	Building on the success of the sponsor's Colorado Energy Office-funded Can Do Colorado program providing e-bikes to essential workers, this proposal aims for widespread outreach and marketing of e-bike commutes for longer distances by offering individualized, long-term commuter support. Boulder's in-commutes of 17 miles or more can be challenging on a standard bicycle, but safe and pleasant by e-bike using connected multi-use paths.
West Corridor	Culturally-Sensitive Encouragement and Marketing Campaigns	Residents of the Westwood, Athmar Park and Valverde neighborhoods face barriers to health including being constrained by the High Injury Network (HIN). The neighborhoods are also on DOTI's equity index, and promoting safe transportation options in these neighborhoods can have a positive impact. To engage effectively with the community, project sponsors propose developing marketing materials in Spanish and Vietnamese, improving access to safe travel options. The program targets historically underrepresented groups.
West Corridor	Colfax Project Safety Outreach	Lakewood will invest \$12,000,000 in safety improvements along Colfax Ave. from Sheridan to Wadsworth but have not planned for a travel demand strategy. The proposed project will aim to engage Colfax businesses beyond what the TMA sponsor's current resources allow, helping employers better understand how workers and customers travel to their businesses, and how they will benefit from the infrastructure changes, ultimately reducing business resistance to the safety project.

FY 2022-2023 TDM Services Set-Aside Applications and Funding Recommendation

Downtown Denver Partnership	Denver Open Streets	Over a two-year period, project sponsors propose hosting eight events to inform the public about active transportation and Transportation Demand Management. Key to incentivizing participation is the creation of "ciclovias," streets closed to vehicular traffic but open to pedestrians and cyclists. The ciclovias will span three miles in Denver and highlight the connectivity of the city's Five Points and Baker neighborhoods.
City of Aurora and NETC	Aurora Aerotropolis/I-70 Corridor TDM Program Development and Implementation	This proposal seeks to develop a TDM program to serve the rapidly-growing Aerotropolis/I-70 Corridor area in Aurora. Key to the project's success are development of a leadership and organizational structure and establishment of program boundary and target area. Sponsors will work with local business and stakeholders to identify program goals and strategies including analyses, employer outreach and workshops. The program will target industrial, manufacturing, and logistics workers historically underserved by TDM efforts.
Commuting Solutions	Expansion of B-Cycle Bikeshare System Feasibility Study	Project sponsors will work with local governments from nine jurisdictions in the US 36/northwest metro region and B-Cycle (e-bike bikeshare vendor) to research the viability of launching, operating and maintaining an electric bikeshare program for that region. Sponsors will work with stakeholders to gain public support for the program by highlighting bikeshare as a critical first and final mile strategy. The program will expand access to communities not typically served by electric bikeshare.
DRMAC	Getting There Travel Training	DRMAC's Getting There Travel Training (GTTT) teaches people to feel comfortable using multimodal transportation options like biking, riding scooters and taking transit. The program was initially designed to reach older adults and people with disabilities. Today, it's expanded to serve communities including immigrants and refugees, low-income residents and students at local high schools who can be taught early how transportation choices can produce cleaner air. Funding will allow them to continue the program.

FY 2022-2023 TDM Services Set-Aside Applications and Funding Recommendation

Project Sponsor	Project Title	Recommended Award
Transportation Solutions	Pandemic Recovery and TDM Marketing Campaign	\$173,859.00
Community Cycles	Ride by Ebike	\$82,790.00
West Corridor	Culturally Sensitive Encouragement and Marketing Campaigns	\$82,790.00
West Corridor	Colfax Safety Project Outreach	\$28,976.00
Downtown Denver Partnership	Denver Open Streets	\$254,726.00
City of Aurora & NETC	Aurora Aerotropolis/I-70 Corridor TDM Program Development and Implementation	\$107,627.00
Commuting Solutions	Expansion of B-Cycle Bikeshare System - Feasibility Study	\$66,232.00
DRMAC	Getting There Travel Training	\$177,000.00
West Corridor	Using New Commute Planning Tool to Promote Non-SOV Travel in Platte Valley and SW Denver	\$124,235.00
Transportation Solutions	Micromobility District Formation Study and Program Launch	\$120,045.00
City of Arvada	City of Arvada Big Data TDM Strategy	\$183,794.00
Recommendation Total		\$974,000.00
Planning Funding Available		\$974,000.00

ATTACHE

ATTACHMENT E

To: Chair and Members of the Regional Transportation Committee

From: Alvan-Bidal Sanchez, Transportation Planner
720-278-2341 or ASanchez@drcog.org

Meeting Date	Agenda Category	Agenda Item #
February 15, 2022	Action	7

SUBJECT

2022 Federal Safety Targets.

PROPOSED ACTION/RECOMMENDATIONS

Staff recommends setting the proposed 2022 federal safety targets.

ACTION BY OTHERS

[January 24, 2022](#) – TAC Recommended Approval

SUMMARY

Federal legislation requires State DOTs and MPOs to set targets and report on progress towards achieving the targets for several topics in support of a performance-based approach to transportation planning and programming. These topics include safety, infrastructure condition (pavement and bridge), system performance, transit asset management, and transit safety. The safety targets are unique in that they must be set on an annual basis.

PM1: Safety Performance

DRCOG must set the safety targets based on a 5-year rolling average. Federal guidance encourages targets to be realistic and achievable. DRCOG has until February 27, 2022 to set and then report the 2022 safety targets to CDOT. The proposed 2022 targets are:

Safety Performance Measures	5-Year Rolling Average
	Targets (2018-2022)
Number of fatalities	249
Rate of fatalities per 100 million VMT	0.915
Number of serious injuries	1,703
Rate of serious injuries per 100 million VMT	6.247
Number of non-motorized fatalities and serious injuries	361

When the Board of Directors adopted *Taking Action on Regional Vision Zero* in 2020, DRCOG committed to a target of zero traffic fatalities and serious injuries. Based on guidance from the Board of Directors at the December 2020 meeting, DRCOG's target is zero fatalities by 2040, and a target of zero serious injuries by 2045. The proposed 2022 safety targets are based on those horizon year targets. Staff will review the methodologies, update progress on achieving previous safety targets, and explain the proposed 2022 safety targets at the February RTC meeting.

PREVIOUS DISCUSSIONS/ACTIONS

N/A

PROPOSED MOTION

Move to recommend to the Board the 2022 federal safety targets.

ATTACHMENT

1. DRCOG Staff Presentation

ADDITIONAL INFORMATION

If you need additional information, please contact Alvan-Bidal Sanchez, Transportation Planner at 720-278-2341 or ASanchez@drcog.org



Federal Performance Measures and Targets: Safety Performance

Regional Transportation Committee
February 15, 2022

Alvan-Bidal Sanchez, AICP
he/him/his

Federal performance areas



PM1: Safety performance



PM2: Infrastructure condition



PM3: System performance, freight, and CMAQ



TAM: Transit Asset Management



PTASP: Public Transportation Agency Safety Plan

Federal Highway Administration

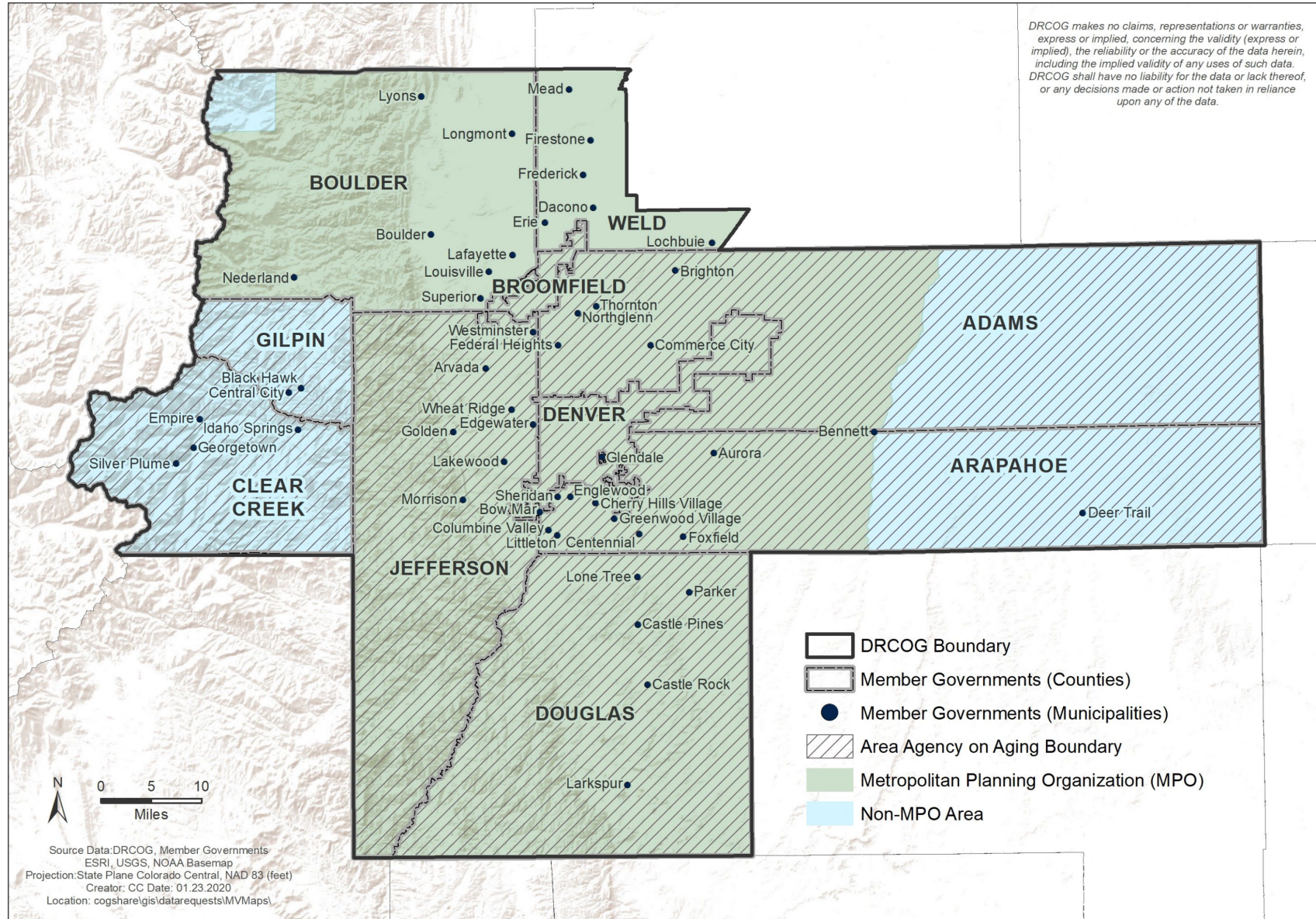
Federal Transit Administration

PM1: safety performance overview

- **Area** – Individual targets for **all public roads, developed and adopted annually**
(Covers the DRCOG MPO Region only)
- **Data** – Provided by CDOT, CDOT geo-locates “on-system” data and DRCOG geo-locates “off-system” data
- **Performance measures** –
 - Number of fatalities
 - Rate of fatalities per 100 million vehicle miles traveled
 - Number of serious injuries
 - Rate of serious injuries per 100 million vehicle miles traveled
 - Number of non-motorized fatalities and serious injuries
- **Calculation** –
 - 5-Year rolling average of 5 individual, consecutive points of data
- **Federal guidance** –
 - Targets should be realistic and achievable, not aspirational
 - DRCOG can support CDOT’s state targets or set our own for the region



DRCOG Planning Program Areas



Status on achieving safety targets

Estimated 250 fatalities in 2020

Estimated 306 fatalities in 2021

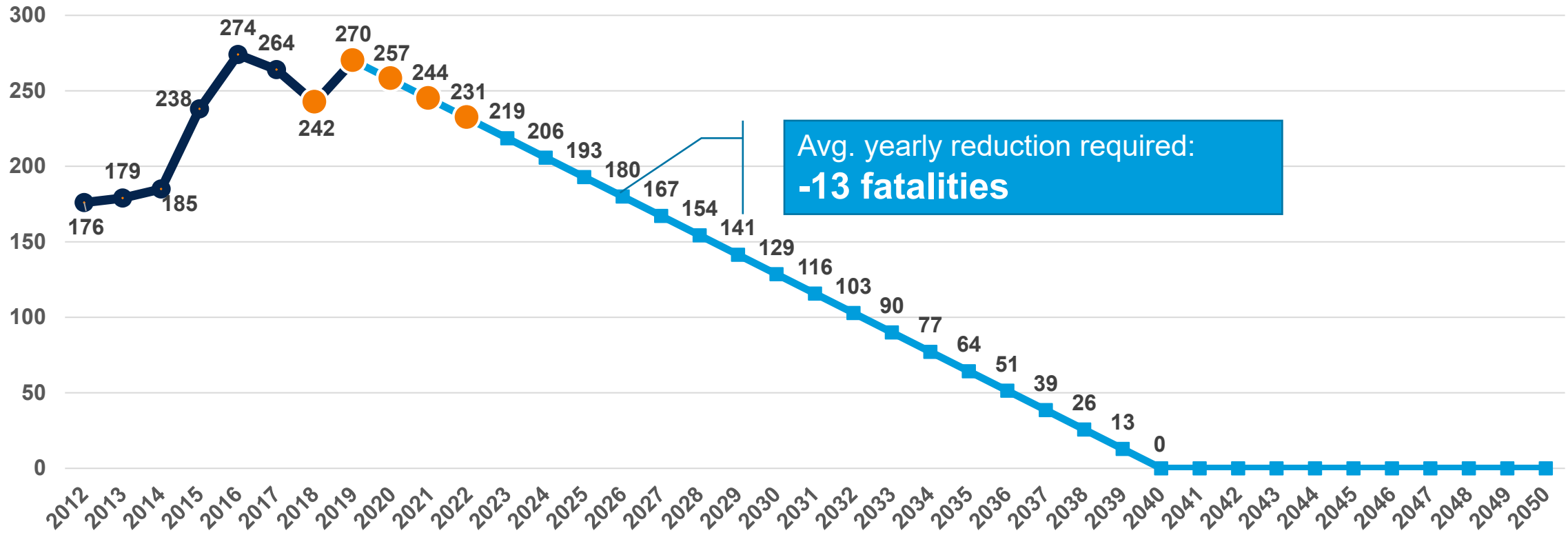
Performance Measures	2018 (2014-2018)		2019 (2015-2019)		2020 (2016-2020)		2021 (2017-2021)	
	Targets	Achieved	Targets	Achieved	Targets	Achieved	Targets	Achieved
Fatalities	242	✓	256	✗	259	⌚	255	⌚
Fatality rate	0.90	✓	0.93	✓	0.90	⌚	0.89	⌚
Serious injuries	1,948	✓	1,953	✓	1,814	⌚	1,733	⌚
Serious injury rate	7.20	✓	6.97	✓	6.36	⌚	6.02	⌚
Non-motorized fatalities and serious injuries	346	✗	344	✗	366	⌚	372	⌚

Actions towards achieving safety targets

- **Taking Action on Regional Vision Zero** adopted in June 2020
- The **Regional Complete Streets Toolkit** adopted in October 2021
- The 2050 RTP includes over **\$600 million in Arterial Safety and Regional Vision Zero Projects and Programs**
- 2022-25 TIP includes **118 TIP Projects at \$919.6 million** that will improve safety
- Created a **Vision Zero Safety Pledge**
- Conducted a “**Slow Speeding**” campaign
- Hired DRCOG’s **first dedicated Safety Planner**
- Ongoing **Regional Vision Zero Work Group** meetings
- Participated in FHWA’s **MPO Safety Planning Peer Exchange**
- CDOT Regions 1 and 4 **Bicycle-Pedestrian Safety Studies**
- DRCOG and Colorado identified as a **Focus Area** through FHWA’s **Focused Approach to Safety**

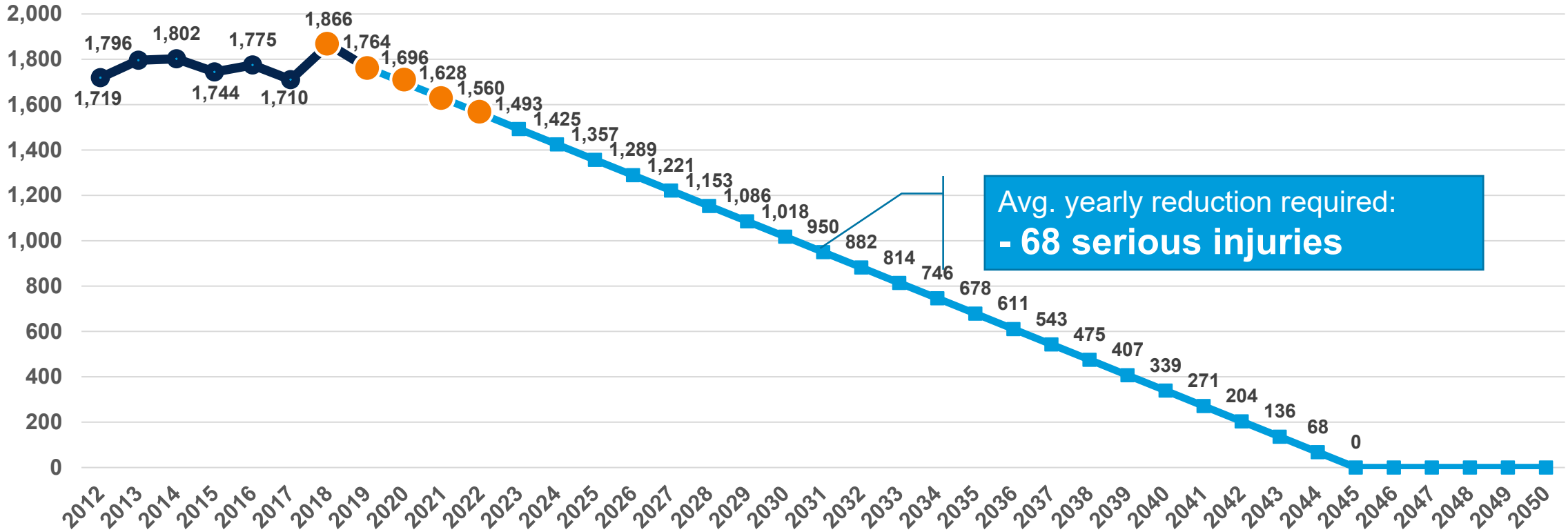


Achieving zero fatalities by 2040



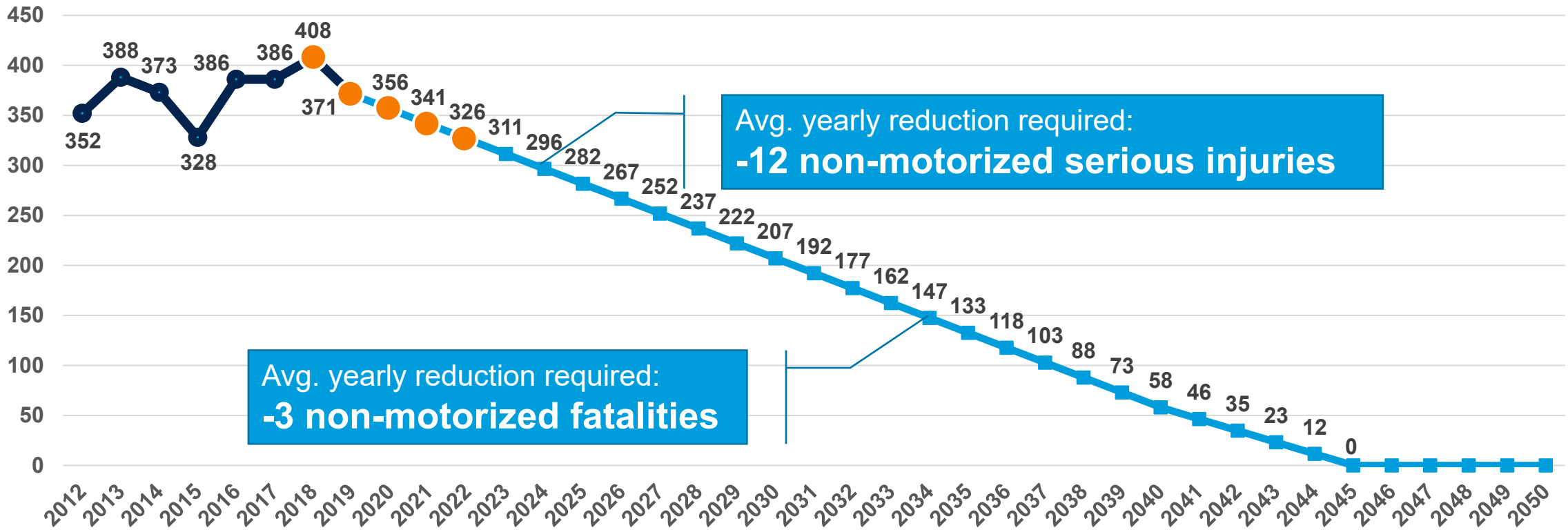
Year	2018	2019	2020	2021	2022	Calculating target
Number of fatalities	242	270	257	244	231	$(242+270+257+244+231)/5 = \mathbf{249}$

Achieving zero serious injuries by 2045



Year	2018	2019	2020	2021	2022	Calculating target
Number of serious injuries	1,866	1,764	1,696	1,628	1,560	$(1,866+1,764+1,696+1,628+1,560)/5 = \underline{\underline{1,703}}$

Achieving zero non-motorized fatalities and serious injuries



Year	2018	2019	2020	2021	2022	Calculating target
Number of non-motorized fatalities & serious injuries	408	371	356	341	326	$(408+371+356+341+326)/5 = \underline{\underline{361}}$

Proposed 2022 safety targets

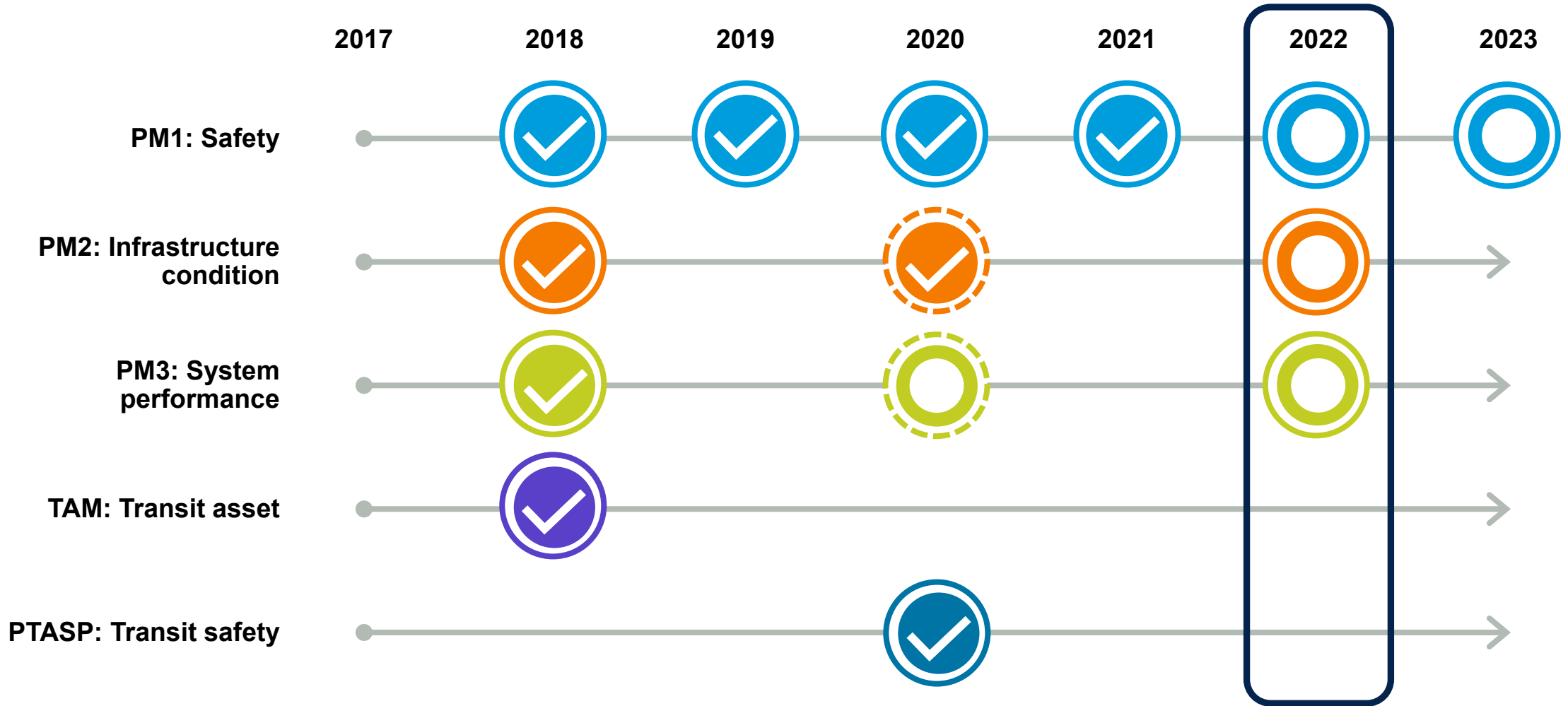
Performance measures	2022 targets (2018-2022)
Number of fatalities	249
Rate of fatalities per 100 million vehicle miles traveled	0.915
Number of serious injuries	1,703
Rate of serious injuries per 100 million vehicle miles traveled	6.247
Number of non-motorized fatalities and serious injuries	361

Safety targets schedule

- Transportation Advisory Committee: **January 24**
- Regional Transportation Committee: **February 15**
- Board of Directors: **February 16**
- **Deadline to submit: February 27**



Future performance measures



MPO action taken



MPO action required



MPO action possible pending CDOT action

Requested motion

Move to recommend to the Board the 2022 federal safety targets.





Alvan-Bidal Sanchez, AICP
Transportation Planner
direct: (720) 278-2341
email: asanchez@drcog.org

ATTACH F

ATTACHMENT F

To: Chair and Members of the Transportation Advisory Committee

From: Jacob Riger, Manager, Long Range Transportation Planning
303-480-6751 or jriger@drcog.org

Meeting Date	Agenda Category	Agenda Item #
February 15, 2022	Informational Briefing	8

SUBJECT

2050 Regional Transportation Plan (2050 RTP) project-based amendments update.

PROPOSED ACTION/RECOMMENDATIONS

N/A

ACTION BY OTHERS

N/A

SUMMARY

SB21-260 and the state [GHG emission reduction rule](#) require DRCOG to revise the 2050 RTP by October 1, 2022. The revised 2050 RTP needs to demonstrate that the plan will meet the GHG emission reduction targets specified in the rule for the DRCOG region. As part of this “GHG revision” process, DRCOG also solicited routine project-based amendments to the 2050 RTP (major changes to existing projects in the fiscally constrained 2050 RTP). Staff issued the solicitation in mid-December, with amendment requests due for most of the region on January 14, 2022. (Given the devastating Marshall Fire, DRCOG staff extended the deadline for four jurisdictions in Boulder County until January 28th.)

The amendment requests received so far are shown in Attachment 1. As part of amending the 2050 RTP, DRCOG will conduct fiscal constraint analysis and transportation and air quality conformity modeling for the plan’s regional roadway and rapid transit networks to meet federal requirements. Additionally, the 2050 RTP as adopted and as proposed to be amended will be analyzed for regional GHG emissions to demonstrate compliance with the GHG rule’s emission reduction requirements.

Fiscal constraint, air quality conformity, and GHG emissions analysis results, along with the revised 2050 RTP, will be presented in documents for public, stakeholder, and state (Air Pollution Control Division and Transportation Commission) review in mid-2022. This process will culminate in a 30-day public comment period and public hearing, with anticipated DRCOG Board adoption of the revised 2050 RTP in August 2022.

PREVIOUS DISCUSSIONS/ACTIONS

N/A

PROPOSED MOTION

N/A

ATTACHMENT

1. 2050 RTP project-based amendments received

ADDITIONAL INFORMATION

If you need additional information, please contact Jacob Riger, Manager, Long Range Transportation Planning, at 303-480-6751 or jriger@drcog.org

Requestor	Project and Description	Current Cost	Proposed Cost	Difference	Current RTP Status	Proposed Project Amendment
CDOT Region 1	I-70 Floyd Hill eastbound improvements: Eastbound interchange improvements with frontage road extension from the Hidden Valley interchange to U.S. Route 6 interchange	\$250.0	\$250.0	\$0.0	2030-2039	Move to the 2020-2029 Staging Period
CDOT Region 1	I-70 Floyd Hill westbound improvements: Addition of a new express travel lane from the top of Floyd Hill to Veterans Memorial Tunnels, and eastbound auxiliary lane from the bottom to top of Floyd Hill	\$450.0	\$450.0	\$0.0	2030-2039	Move to the 2020-2029 Staging Period
CDOT Region 1	I-270: New managed lanes	\$500.0	\$500.0	\$0.0	2030-2039	Move to the 2020-2029 Staging Period
Aurora	I-70/Quail Run Rd Interchange: Add new interchange	\$0.0	\$38.2	\$38.2	NA	Add new project
Boulder County	SH-119 BRT: Bus rapid transit service and supporting safety/ multimodal corridor improvements	\$250.0	\$250.0	\$0.0	2030-2039	Move to the 2020-2029 Staging Period. Add "including a separated bikeway" to the end of the project description. Also include a bullet point in the Bicycle/ Pedestrian column in the project's multimodal project elements.
Boulder County	SH-119 BRT Extension: Bus rapid transit service and supporting safety/ multimodal improvements	\$100.0	\$100.0	\$0.0	2030-2039	Move to the 2020-2029 Staging Period. Add "including the Firestone-Longmont Mobility Hub" to the end of the project description. Also include a bullet point in the Bicycle/ Pedestrian column in the project's multimodal project elements.
Boulder County	SH-66: Widen from 2 to 4 lanes (Hover St. to Main St.) and operational/safety improvements from Lyons to Longmont in alignment with PEL	\$10.0	\$10.0	\$0.0	2030-2039	Split the project between the 2020-2029 (Hover to Main) and 2030-2039 (Lyons to Hover) Staging Period.
Boulder County	US-36: Corridor safety improvements	\$20.0	\$20.0	\$0.0	2020-2029	Move this project from the Arterial safety/Regional Vision Zero category to the Active Transportation category.
Broomfield	SH-7: Multimodal corridor improvements	\$100.0	\$100.0	\$0.0	2030-2039	Move to the 2020-2029 Staging Period
Denver	Federal Blvd. BRT: Bus rapid transit service and supporting safety/ multimodal improvements	\$94.0	\$94.0	\$0.0	2030-2039	Move to the 2020-2029 Staging Period
Denver	South Platte River Trail: Complete missing links and upgrade trail section	\$50.0	\$50.0	\$0.0	2030-2039	Split the project between the 2020-2029 and 2030-2039 Staging Period