

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

Amended August 17, 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

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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)

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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
BIL	Bipartisan Infrastructure Law
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
CRP	Carbon Reduction Program
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
IIJA	Infrastructure Investment and Jobs Act
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 <sup>st</sup> 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
SMART	Strengthening Mobility and Revolutionizing Transportation
SOV	Single Occupancy Vehicle
STAMP/UC	Station Area Master Plan/Urban Center Set-Aside
STBG	Surface Transportation Block Grant
STIP	State Transportation Improvement Program
STRAHNET	Strategic Highway Network
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 Civil Rights Act of 1964
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  
VOC

Vehicle Miles Traveled  
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.

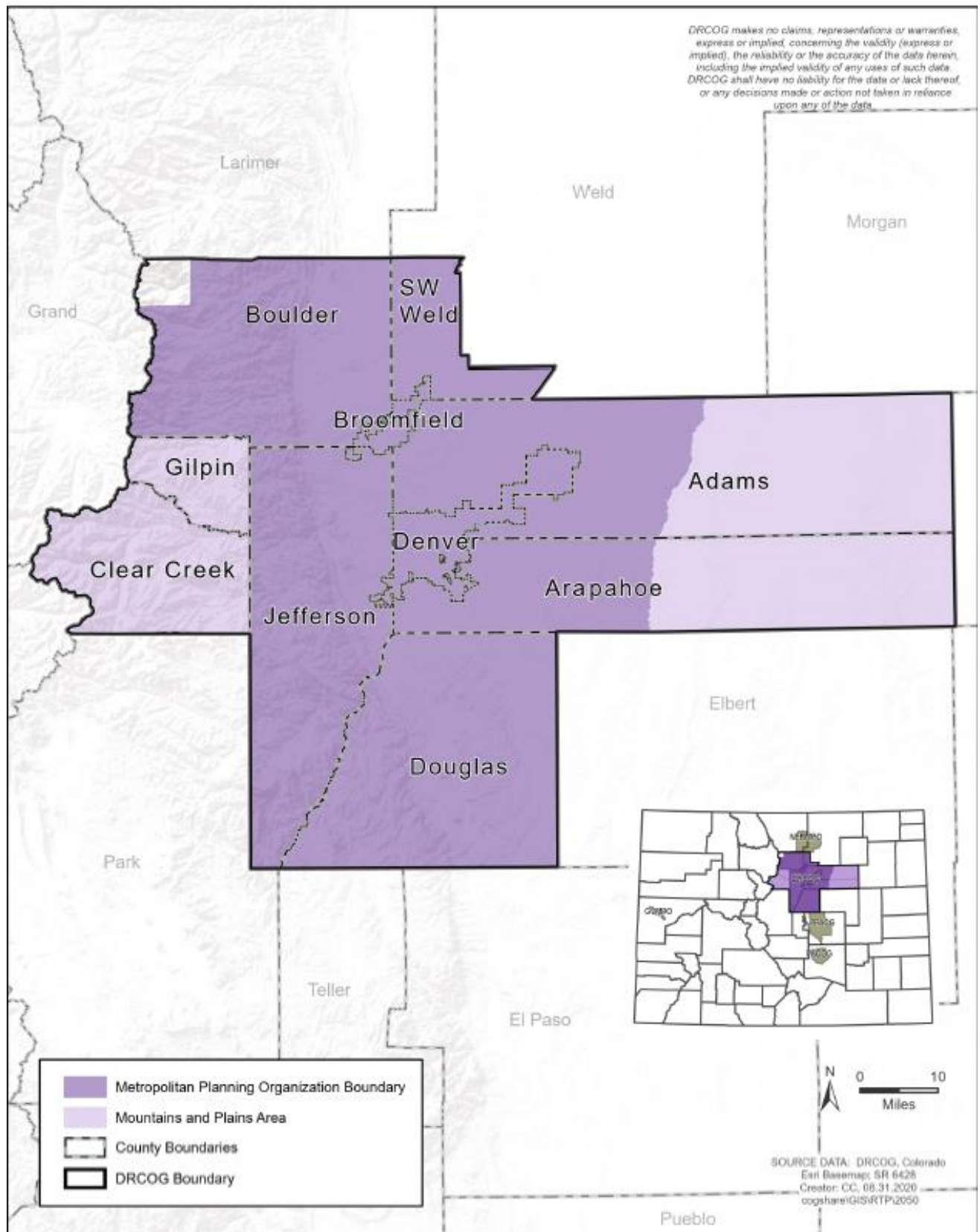
### BACKGROUND

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) was signed into law in November 2021. It carries forward the planning principles of its predecessor, the Fixing America's Surface Transportation (FAST) Act, signed into law in 2015, 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**

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 Justice<sup>40</sup> 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 Consortium
- 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 programming additional funds to the current FY 2022-2025 Transportation Improvement Program (TIP) and developing the new FY 2024-2027 TIP, developing priority project and corridor strategies, and implementing and maintaining DRCOG's various modal plans and related activities.

Additional funding through the IJJA to program the current and FY 2024-2027 TIP will directly implement many of the priorities of the 2050 MVRTP through the funding priorities established in the *Policies for TIP Program Development* (TIP Policy). Developing the TIP includes the following tasks:

- Significant engagement with DRCOG's committees and Board of Directors to develop the *Policies for TIP Program Development* 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:

- Continued implementation of the action initiatives of the Taking Action on Regional Vision Zero plan and supporting the implementation activities of the Regional 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. The Title VI Implementation Plan, LEP Plan, and ADA Program Access Plan 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 2022) of the Metro Vision Plan, the MVRTP, Transportation Improvement Program (TIP), and other associated planning documents.

<b>Document</b>	<b>Action/Date</b>
<a href="#"><u>Metro Vision Plan</u></a>	Amended May 2019
<a href="#"><u>2050 Metro Vision Regional Transportation Plan</u></a>	Adopted April 2021
<a href="#"><u>2022-2025 Transportation Improvement Program</u></a>	Adopted April 2021
<a href="#"><u>Taking Action on Regional Vision Zero</u></a>	Adopted June 2020
<a href="#"><u>Regional Complete Streets Toolkit</u></a>	Adopted October 2021
<a href="#"><u>Regional Multimodal Freight Plan</u></a>	Adopted May 2020
<a href="#"><u>Denver Regional Active Transportation Plan</u></a>	Adopted January 2019
<a href="#"><u>Denver Regional Intelligent Transportation Systems Deployment Program</u></a>	Adopted June 2014
<a href="#"><u>Coordinated Transit Plan</u></a>	Adopted April 2021
<a href="#"><u>DRCOG Section 5310 Program Management Plan</u></a>	Amended May 2021
<a href="#"><u>Title VI Implementation Plan</u></a>	Adopted September 2021
<a href="#"><u>DRCOG ADA Program Access Plan</u></a>	Adopted September 2021
<a href="#"><u>Limited English Proficiency Plan</u></a>	Adopted September 2021
<a href="#"><u>Public Engagement Plan</u></a>	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 October 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 in person and 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 and amend as necessary

**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
- Update the Transportation Planning in the Denver Region document and accompanying Planning MOA
- Develop and implement new equity analysis methodology that complies with state and federal regulations
- Address items that were contained within the 2020 joint FHWA and FTA Quadrennial Review of the MPO Planning Process

### **Deliverables:**

2022

- Updated complaint procedures and forms
- Updated Transportation Planning in the Denver Region and Planning MOA

2023

- FY 2022 Title VI and Local Agency Assurances
- FY 2022 Nondiscrimination Status Report

**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 Civic 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/Front Range Passenger Rail District Board, 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, high-opportunity areas)

**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 associated with the GHG update to the 2050 MVRTP
- Prepare associated GHG Transportation Report
- Prepare associated Mitigation Action Plan (if necessary)

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 plans

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 track metrics of implementation status
- Continue implementing the Regional Complete Streets Toolkit, including prioritizing complete streets safety investments in accordance with the IJJA, as well as maintain, amend, and update the Toolkit's Street Typology
- 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 Strategic Plan

### **Deliverables:**

2022

- Regional Complete Streets StoryMap
- Complete Streets prioritization framework
- 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
- Amendments to regional Active Transportation Corridors
- Regional TDM Strategic Plan
- Amendments to the Regional Street Typology
- Complete streets network analysis

**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 and 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 and state resources and other regionally significant projects.

**Tasks:**

- Conduct discussions and adopt the *Policies for TIP Program Development*
- Conduct calls for projects associated with 2024-2027 TIP
- Prepare the 2024-2027 TIP document for public review, committee recommendation, and Board adoption by Fall 2023

**Deliverables:**

2022

- Adopt *Policies for TIP Program Development* 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 Calls 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 FY 20-23 TIP TDM and Human Services Transportation set-asides

2023

- Adopt policies, procedures, and projects for the appropriate FY 24-27 TIP set-asides

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

### **Activity 4.3 Transportation Improvement Program Management**

**Purpose:** Maintain and monitor the adopted TIP by identifying projects to be funded with federal and state 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 an additional Regional and Subregional Call for Projects to program funding identified through the passage of the IIJA and state legislature
- 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; maintain and expand DRCOG’s Regional Vision Zero Program.

**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
- Apply for state/federal grants to improve crash data collection/analysis, safety planning implementation, and related activities, including implementation activities associated with the “405c” NHTSA grant awarded to DRCOG for FY 2022 and FY 2023
- Participate in federal initiatives, including Focused Approach to Safety, Vulnerable Users, and Safe Systems Approach

**Deliverables:**

2022

- Update Taking Action on Regional Vision Zero High Injury Network as needed

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

**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 inventory and StoryMap
- Regional shared micromobility dashboard
- Shared micromobility data platform pilot evaluation
- Regional inventory of transportation technology-related pilot programs and projects

**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 1<sup>st</sup>)

**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 timeframes.

**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

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

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

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

<b>SPONSOR</b>	<b>DESCRIPTION</b>
<b>CDOT</b>	<ul style="list-style-type: none"> <li>• Greenhouse Gas Planning and Reporting</li> <li>•</li> <li>• Urban Arterials Study</li> <li>• Maintain / Update 10-Year Plan</li> <li>• Colorado Freight Plan Update</li> <li>• Truck Parking Planning and Outreach</li> <li>• Mountain Rules Truck Safety Videos (Hot Brakes, Chaining, Construction Zone Safety)</li> </ul>

## Non-Federally Funded & Local Governments Planning Activities

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

**APPENDIX A**  
**PROGRAM FINANCING TABLES**

Table 1. FY 2022 and FY 2023 UPWP Revenue Sources

Funding Source	Recipient	Federal Funding	DRCOG Cash Match	RTD In-Kind Match	Total
FY 2022 CPG*	DRCOG	\$ 4,507,712	\$ 312,214	\$ 936,642	\$ 5,756,568
FY 2023 CPG	DRCOG	\$ 6,129,948	\$ 318,566	\$ 955,699	\$ 7,404,213
FY 2020/FY 2021 Carryover	DRCOG	\$ 4,702,634	\$ 244,390	\$ 733,171	\$ 5,680,196
<b>Total Available Funding</b>		<b>\$ 15,340,294</b>	<b>\$ 875,171</b>	<b>\$ 2,625,512</b>	<b>\$ 18,840,977</b>

\*\$1,500,000 in federal funds are being held back at CDOT for DRCOG's FY2022 contribution towards the Statewide Travel (Total contribution is \$2 million, \$500,000 in FY2021 and \$1,500,000 in FY2022)

**Table 2. FY 2022 and FY 2023 Anticipated Expenditures**

FY 2022/2023 UPWP Objectives and Activities		Total Expenditures*								Total Anticipated Expenditures
		FY 2022				FY 2023				
		Total FY 2022	DRCOG Cash		RTD In-Kind	CPG (federal)	Total FY 2023	DRCOG Cash		
Match	Match		Match	Match	Match			Match	CPG (federal)	
<b>Objective</b>	<b>1.0 Program Administration</b>	\$ 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
<b>Objective</b>	<b>2.0 Planning Coordination and Outreach</b>	\$ 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
<b>Objective</b>	<b>3.0 Long Range Planning</b>	\$ 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
<b>Objective</b>	<b>4.0 Project Programming</b>	\$ 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
<b>Objective</b>	<b>5.0 Transportation Operations</b>	\$ 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
<b>Objective</b>	<b>6.0 Public Transportation Planning</b>	\$ 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	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>Objective</b>	<b>7.0 Support Systems for Planning</b>	\$ 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
<b>FY 2022/2023 Anticipated Expenditures</b>		<b>\$ 9,106,974</b>	<b>\$ 391,828</b>	<b>\$ 1,175,483</b>	<b>\$ 7,539,663</b>	<b>\$ 9,441,438</b>	<b>\$ 406,218</b>	<b>\$ 1,218,654</b>	<b>\$ 7,816,566</b>	<b>\$ 18,548,411</b>

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

Anticipated Unused FY 22/23 Contract Funds (Carryover to FY 24/25) \$ 292,566

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

TOTAL Funding Available \$ 18,840,977

