Executive Committee

Ashley Stolzmann, Chair
Kevin Flynn, Vice Chair
Steve Conklin, Secretary
Wynne Shaw, Treasurer
John Diak, Immediate Past Chair
Douglas W. Rex, Executive Director

AGENDA

TRANSPORTATION ADVISORY COMMITTEE
Monday, June 28, 2021
1:30 p.m.
VIDEO/WEB CONFERENCE
Denver, CO

1. Call to Order

2. Public Comment

3. May 24, 2021 TAC Meeting Summary
   (Attachment A)

ACTION ITEMS

4. FY 2022-2023 Transportation Demand Management (TDM) Services Set-Aside Eligibility
   (Attachment B) Steve Erickson, Communications & Marketing Director

5. Unified Planning Work Program (UPWP) for the Denver Region
   (Attachment C) Josh Schwenk, Assistant Planner

INFORMATIONAL BRIEFINGS

6. Shared Micromobility in the Denver Region
   (Attachment D) Emily Lindsey, Transportation Technology Strategist

7. Potential Revisions to Metro Vision Performance Measures and Targets
   (Attachment E) Robert Spotts, Manager, Mobility Analytics Program

8. FY 2024-2027 TIP Policy Elements: Project Scoring and Project Readiness
   (Attachment F) Todd Cottrell, Senior Transportation Planner

9. 2021 RAISE Grant Requests
   (Attachment G) Ron Papsdorf, Division Director, Transportation Planning & Operations

ADMINISTRATIVE ITEMS

10. Comment/Other Matters
    - AMP Working Group Update

11. Next Meeting - July 26, 2021

12. Adjournment

ATTACH A

MEETING SUMMARY
TRANSPORTATION ADVISORY COMMITTEE
Monday, May 24, 2021
Note: Meeting held virtually via Zoom

MEMBERS (OR VOTING ALTERNATES) PRESENT:

Kent Moorman (Chair)	Adams County – City of Thornton
Brook Svoboda	Adams County – City of Northglenn
David Gaspers	Denver, City and County
Melanie Choquette	Denver, City and County
Ron Papsdorf	Denver Regional Council of Governments
Art Griffith	Douglas County
John Cotton	Douglas County – City of Lone Tree
Bryan Weimer	Arapahoe County
Jeff Dankenbring	Arapahoe County – City of Centennial
Phil Greenwald	Boulder County – City of Longmont
Steve Durian (Vice Chair)	Jefferson County
Debra Baskett	Jefferson County – City of Westminster
Carol Buchanan	Senior Special Interest Seat
Bill Sirois	Regional Transportation District
David Ulane	Aviation Special Interest Seat
Aaron Bustow (Ex Officio)	Federal Highway Administration
Carson Priest	TDM/Non-Motorized Special Interest Seat
Brodie Ayers (Alternate)	CDOT DTR
Heather Paddock	CDOT Region 4
Paul Jesaitis	CDOT Region 1
Rick Pilgrim	Environment Special Interest Seat
Frank Bruno	Non-RTD Transit Special Interest Seat
Jessica Ferko (Alternate)	RAQC
Kristin Kenyon (Alternate) (Ex Officio)	FTA
Sarah Grant (Alternate)	Broomfield, City & County
Stephen Strohminger	Non-MPO Area – Gilpin County
Kelly Heaton	Freight Special Interest Seat

OTHERS PRESENT:

Megan Davis (Alternate)	Boulder County – City of Louisville
Tom Schomer (Alternate)	Broomfield County
Jim Eussen (Alternate)	CDOT Region 4
Jessica Myklebust (Alternate)	CDOT Region 1
Chris Quinn (Alternate)	RTD
Mac Callison (Alternate)	Arapahoe County – City of Aurora
Jean Sanson (Alternate)	Boulder, City & County
Maria D'Andrea (Alternate)	Arapahoe County – City of Englewood
George Hohlacov (Alternate)	Aviation Special Interest Seat
Ken Johnstone (Alternate)	Jefferson County – City of Wheat Ridge
Mike Whiteaker (Alternate)	Jefferson County – City of Westminster
Christopher Montoya (Alternate)	Adams County – City of Brighton
Eugene Howard (Alternate)	Denver, City & County

Public: Danny Herrmann, Jordan Rudel, Jan Rowe, Julie George, Lauren Pulver, Larry Nimmo, Lisa Nguyen, Myron Hora, Noe Martinez, Chris Chovan, Sharon Terranova, Ed Parks, Erik Sabina, Aaron Willis, Jesse Zamora, Wayne Chuang

DRCOG staff: Steve Cook, Alvan-Bidal Sanchez, Cam Kennedy, Emily Lindsey, Josh Schwenk, Sang Gu Lee, Robert Spotts, Ala Alnawaiseh, Todd Cottrell, Jacob Riger, Lawrence Tilong, Andy Taylor, Melissa Balding, Steve Erickson, Derrick Webb, Geoffrey Chiapella

Call to Order
Chair Kent Moorman called the meeting to order at 1:31 p.m.

Public Comment
Chair Moorman informed TAC that DRCOG has switched its digital platform to Zoom and discussed the functionality of this new platform and how the meeting would be conducted.

Summary of the April 26, 2021 TAC meeting,
The summary was accepted.

ACTION ITEMS

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

Todd Cottrell, Senior Transportation Planner, informed the committee that DRCOG's transportation planning process allows for Board-approved amendments to the current Transportation Improvement Program (TIP) on an as-needed basis. Typically, these amendments involve the addition or deletion of projects, or adjustments to existing projects and do not impact funding for other projects in the TIP. The proposed amendments to the *FY 2022-2025 Transportation Improvement Program* have been found to conform with the State Implementation Plan for Air Quality.

TIP Amendments

- **2008-076**   **Region 1 FASTER Pool**
  Add 33 new pool projects, adjust cost on two existing pool projects, and remove seven pool projects. Add $59,000,000 in FASTER Safety funds.

- **2016-057**   **Region 1 RPP Pool**
  Add new pool project.

- **2020-098**   **I-70 Noise Walls**
Add $6,100,000 in RPP funds to existing project

Bryan Weimer MOVED to recommend to the Regional Transportation Committee the proposed amendments to the FY *2022-2025 Transportation Improvement Program* (TIP). The motion was seconded and passed unanimously.

INFORMATIONAL BRIEFINGS

FY 2022-2023 Transportation Demand Management (TDM) Set-Aside Eligibility

Steve Erickson, Communications & Marketing Director, informed the committee the FY 2020-2023 TIP Policy established $1.8 million in federal funds for TDM non-infrastructure projects over the four-year period. Eligible projects include marketing and outreach, as well as market research. He then summarized the proposed process and criteria for selecting TDM non-infrastructure projects for fiscal years 2022 and 2023. The primary goal of these projects is to reduce traffic congestion and improve air quality, and to pilot projects that will demonstrate the effectiveness of an approach

that might be scaled or replicated across the region. There were several questions about the eligibility and selection process. This item will be an action item at the June 2021 TAC meeting.

<u>Metro Vision Plan Transportation Measure/Target Amendments</u>

Jacob Riger, Long Range Transportation Planning Manager, Andy Taylor, Regional Planning Manager, Robert Spotts, Mobility Analytics Program Manager, and Melissa Balding, Mobility Analytics Planner, discussed with the committee the Metro Vision Plan's transportation-related performance measures and targets to reflect the outcomes and priorities of the 2050 Regional Transportation Plan (RTP) and related DRCOG planning efforts (such as *Taking Action on Regional Vision Zero*). Chapter 4 of the 2050 RTP documents initial concepts for amending the Metro Vision Plan measures and/or targets. The relationship of both plans is critical as the 2050 RTP is one of the primary methods to implement the transportation theme of Metro Vision.

Of Metro Vision's 16 performance measures, nine are transportation (or transportation-related) measures. Of these nine measures, staff is exploring updates to five measures and/or targets:

- Traffic fatalities
- Travel time variation
- Person delay
- Surface transportation greenhouse gas emissions
- Housing and transportation costs

Additionally, staff is interested in exploring new measures and targets relating to transit service quality and active transportation. Any changes to measures and targets within Metro Vision would ultimately occur during an amendment process to the Metro Vision Plan later this year. The committee asked several questions and provided input about the proposed measures and changes, which staff will incorporate into an updated item for the June TAC meeting.

<u>FY 2024-2027 Transportation Improvement Program (TIP) Policy Development: Regional Share Project Eligibility</u>

Todd Cottrell, Senior Transportation Planner, conversed with the committee and provided an overview of the previous discussions and further staff recommendations regarding the Regional/Subregional Share funding split for the 2024-2027 TIP.

The funding split for the FY 2020-2023 TIP process was 20% to the Regional Share and 80% to the Subregional Share. The Subregional Share was then further broken down to each subregion target based on the proportion of the average of each county's population, VMT, and employment as compared to the regional total. The previous cycle's discussion and eventual recommendation and action of this funding split was one of the most critical in the development of the Dual Model process. If the funding for DRCOG to allocate for this upcoming TIP cycle is similar to the 2022-2025 TIP, the Regional Share allocation would be approximately $57 million.

Based on the discussion at the April TAC meeting on the Regional Share, DRCOG staff is recommending the split for the FY 2024-2027 TIP remain the same based on the following:

- The proposed changes to the FY 2024-2027 TIP Regional Share eligibility (at the time of this memo) are projected to remain similar to the FY 2020-2023 TIP.
- State and federal transportation funding actions are largely unknown at this time. Future funding action and allocations may dictate revisiting this split before the 2024-2027 TIP Policy is adopted in January 2022.

<u>2021-2022 Statewide Multimodal Travel Survey Project</u>
Steve Cook, Mobility Analytics and Operations Manager, along with Erik Sabina, CDOT Information Management Branch Manager, presented to the committee that over the next two years, several survey components will be designed and administered to obtain information on household, business, and visitor travel characteristics throughout the state. CDOT has hired a consultant team to conduct this major project.

This summer, a detailed survey work plan will be prepared. Survey instruments and procedures will be designed and evaluated via pilot test surveys in the fall and winter. The design process is very important as this is when specific survey questions about household characteristics and travel attributes are defined. The majority of surveying is expected to take place in 2022. Further small-scale annual surveys will likely be administered in the future to monitor changing trends in travel patterns. Example survey components will likely include:
- Traditional household diary surveys
- Smartphone-based travel tracking surveys
- Visitor intercept and self-administered surveys (e.g., DIA and other visitor destinations)
- Rental car use
- Surveys on household and business package deliveries
- Incorporation of travel data from "big data" sources

Results from travel surveys are used to calibrate the statewide and MPO travel demand models, such as DRCOG's Focus model. The results are also used for project evaluation and selection processes and to create information documents for decisionmakers, public, and the media.

<u>CDOT Mobility Hub Program and Project Status</u>
Emily Lindsey, Transportation Technology Strategist, along with Sharon Terranova, Planning Manager, CDOT Division of Transit and Rail, and Ed Parks, Senior Transportation Planner, AECOM, presented to the committee that CDOT has a statewide mobility hub strategy, which includes the development of a and implementation of mobility hub projects throughout Colorado. Several of these mobility hubs are in the Denver region and funded through Senate Bill 267.

INFORMATIONAL ITEM

<u>US House Transportation Reauthorization Earmark Requests</u>
Ron Papsdorf, Division Director, Transportation Planning & Operations, and Kent Moorman, Chair, directed the committee to review the informational item in the packet.

ADMINISTRATIVE ITEMS

<u>Member Comment/Other Matters</u>
- AMP Working Group update

Carson Priest, TDM – Nonmotorized Special Interest Seat representative, provided an AMP Working Group update to the committee. The group met early this month and got updates regarding the system operations focus area and participated in a mentimeter polling exercise regarding that work. There was also a robust discussion about the future of telework and in-person work in the region.

Cam Kennedy, Division Assistant, informed the committee members that a Title VI survey would be sent to their email inbox upon the conclusion of this TAC meeting and encouraged them to complete the voluntary and anonymous survey to help DRCOG meet federal requirements.

<u>Next Meeting – June 28, 2021</u>

<u>Adjournment</u>
There were no additional comments from members. The meeting adjourned at 4:06 p.m.

ATTACH B

To: Chair and Members of the Transportation Advisory Committee

From: Steve Erickson, Communications & Marketing Director
           303-480-6716 or serickson@drcog.org

Meeting Date	Agenda Category	Agenda Item #
June 28, 2021	Action	4

SUBJECT

FY 2022-2023 *Transportation Demand Management* (TDM) Services Set-Aside Eligibility

PROPOSED ACTION/RECOMMENDATIONS

Staff recommends approval of the eligibility rules and criteria for selecting projects to be funded through the DRCOG *Transportation Demand Management* (TDM) Services set-aside through the *2020-2023 Transportation Improvement Program* (TIP)

ACTION BY OTHERS

July 18, 2018 – Board approved 2020-2023 TIP Policy (*Table 2. 2020-2023 TIP Set-Aside Programs*)

SUMMARY

The FY2020-2023 TIP Policy established $1.8 million in federal funds for TDM non-infrastructure projects over the four-year period. Eligible projects include marketing and outreach, as well as market research. Staff will present the proposed process and criteria for selecting TDM non-infrastructure projects for fiscal years 2022 and 2023. The primary goal of these projects is to reduce traffic congestion and improve air quality, and secondarily to pilot projects that will demonstrate effectiveness of an approach that might be scaled or replicated across the region.

The FY 2022–2023 call for projects will be for $900,000. Next steps include approvals by Regional Transportation Committee, and the DRCOG board, with a call for projects in fall 2021.

PREVIOUS DISCUSSIONS/ACTIONS

May 24, 2021 – TAC informational briefing on TDM non-infrastructure projects eligibility rules and selection process

PROPOSED MOTION

Move to recommend to the Regional Transportation Committee the eligibility rules and evaluation process for selecting non-infrastructure (marketing, outreach and research) projects to be funded through the TDM Services set-aside of the FY2020-2023 Transportation Improvement Program (TIP).

ATTACHMENTS

1. TDM Services set-aside *Eligibility Rules and Selection Process* document
2. Staff presentation

ADDITIONAL INFORMATION

If you need additional information, please contact Steve Erickson, Communications & Marketing Director, at (303) 480-6716 or serickson@drcog.org.

FY 22-23 Transportation Demand Management (TDM) Services Set-Aside
Eligibility and Selection Criteria

Presented by:
Steve Erickson

TAC-June 28, 2021

Table 2. 2020-2023 TIP Set-Aside Programs

Set-Aside Programs	4-Year DRCOG-allocated Funding Allocations for the 2020-2023 TIP	Calls for Projects
Community Mobility Planning and Implementation	**$4,800,000** • $2,000,000 for small area planning and/or transportation studies • $2,800,000 for small infrastructure projects	Calls for Projects for both are tentatively scheduled for the summer of 2019 and 2021.
TDM Services	**$13,400,000** • $8,800,000 for the DRCOG Way to Go program • $2,800,000 for 7 regional TMAs partnership @ $100,000/year • $1,800,000 for TDM non-infrastructure projects	Calls for Projects for the TDM non-infrastructure projects are tentatively scheduled for the summer of 2019 and 2021.
Regional Transportation Operations & Technology (traffic signals and ITS)	**$20,000,000**	Calls for Projects are tentatively scheduled for the Fall of 2019 and 2021.
Air Quality Improvements	**$7,200,000** Regional Air Quality Council (RAQC) will receive: • $4,800,000 for vehicle fleet technology • $1,800,000 for an ozone outreach and education program • $600,000 in FY20 for an ozone SIP modeling study	
Human Service Transportation	**$4,000,000** • $4,000,000 to improve service and mobility options for vulnerable populations by funding underfunded/underserved trips and rolling stock expansion.	Calls for Projects are tentatively scheduled for the summer of 2019 and 2021.

TDM services program purpose and goals

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

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

Funding available 2022 – 2023 call

- **$900,000** for 2 year-projects

Eligibility

Project sponsors must be eligible to be direct recipients of federal transportation funds. Private, for-profit companies (e.g., contractors, suppliers, or consultants) are **not eligible.**

Project sponsors must also be in good standing with the State of Colorado via the Secretary of State's business database: http://www.sos.state.co.us/pubs/business/businessHome.html

All scopes of work must adhere to the federal STBG program guidance.

Project sponsors must pledge local matching funds or in-kind .

Letter of Intent

Application

Application Process

START HERE
1. Attend a Mandatory TDM Service Application Workshop

2. Identify the project concept and begin early discussions w/DRCOG staff

3. Submit a Letter of Intent

4. Discuss Letter of Intent with DRCOG Staff

5. Applicants Invited to Apply

6. Submit Application

7. Project Review and Scoring

8. Recommendation to DRCOG committees and Board of Directors
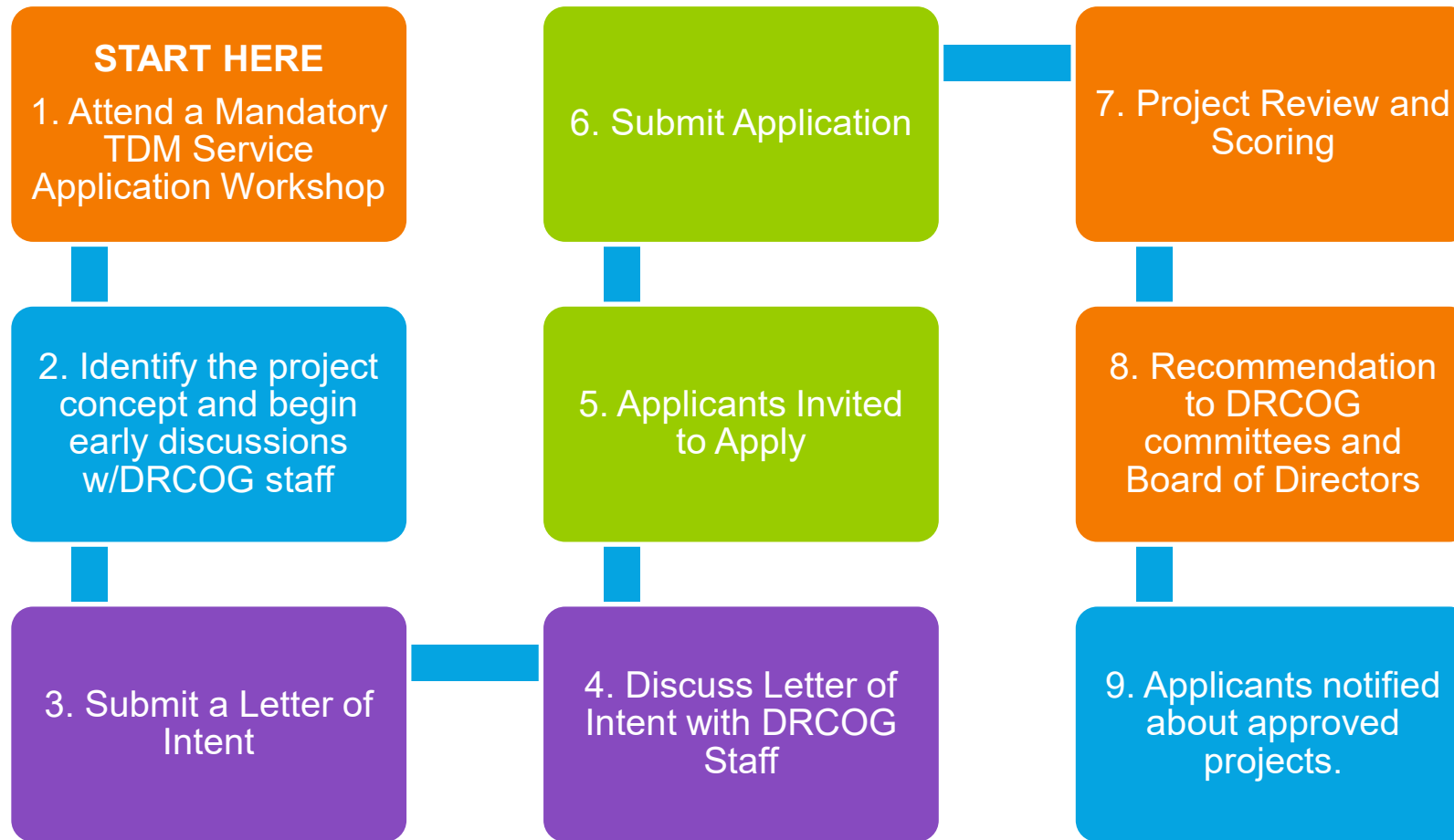
9. Applicants notified about approved projects.

1. **DRCOG review panel includes internal and external stakeholders**
   - Panel **may include** staff from DRCOG divisions:
     - Communications and Marketing (Way to Go)
     - Area Agency on Aging
     - Transportation Planning and Operations
     - Regional Planning and Development
   - Panel **may include** external stakeholders and subject matter experts:
     - Federal Highways Administration
     - Colorado Dept. of Transportation
     - Colorado Department of Public Health and Environment
     - Regional Air Quality Council, RTD, other TDM professionals

2. **Each member of the panel will review the applications and assign points to the criteria based on information contained in the application – Section A**

3. **In addition to review committee scoring on evaluation criteria, DRCOG will score based on data-driven criteria as shown in Section B**

4. **Panel will convene to discuss applications and reach consensus** on a recommended list of projects

5. **Panel will recommend list of projects to be funded through the set-aside for review and approval by DRCOG committees and Board of Directors**

Criteria and Weighting

- **Review Panel Scoring (75% of total)**
  - VMT reduction
  - Level of innovation and uniqueness
  - Replicability
  - Access
  - Funding effectiveness
  - Project and applicant readiness
  - Timing/synergy of project

- **DRCOG data-driven scoring (25% of total)**
  - Short trip opportunity potential
  - Environmental justice area
  - Serves DRCOG designated Urban Center
  - Financial partners
  - Local Match

Move to recommend to the Regional Transportation Committee the eligibility rules and evaluation process for selecting non-infrastructure (marketing, outreach and research) projects to be funded through the TDM Services set-aside of the FY2020-2023 Transportation Improvement Program (TIP)

THANK YOU!

Steve Erickson

Director, Communications and Marketing

serickson@drcog.org

303.480.6716

<p style="text-align: center;">TDM Services Set-Aside</p>
<p style="text-align: center;">FY 2022 and FY 2023 Projects</p>

Eligibility Rules and Selection Process

Program Purpose

The *TDM Services* set-aside was developed to support marketing, outreach and research projects that reduce single occupant vehicle (SOV) travel and ultimately reduce traffic congestion and improve regional air quality. The specific goals of the *TDM Services* set-aside are listed below.

Program Goals

- Reduce single occupant vehicle travel
- Reduce traffic congestion
- Improve regional air quality
- Pilot new approaches to transportation demand management (TDM)
- Improve awareness of and access to mobility options for people of all ages, incomes and abilities

Sponsor Eligibility Requirements

- Project sponsors must be eligible to be direct recipients of federal transportation funds. These include local governments, governmental agencies and nonprofits. Non-local government sponsors must include documentation of support from the applicable local government(s) where the project is located. Private, for-profit companies (e.g., contractors, suppliers, or consultants) are not eligible.
- Project sponsors must also be in good standing with the State of Colorado via the Secretary of State's business database: http://www.sos.state.co.us/pubs/business/businessHome.html
- All scopes of work must adhere to the federal Surface Transportation Block Grant program guidance: https://www.fhwa.dot.gov/specialfunding/stp/.
- Project sponsors must pledge local matching funds or in-kind match.

Project Eligibility Requirements

Funding background

The 2020-2023 TIP Policy established $1.8 million in federal funds for TDM non-infrastructure projects over the four-year period. The 2022-2023 call for projects will be for $900,000.

Eligible project types

Applications must be for new projects or activities which implement TDM strategies that reduce SOV travel and ultimately contribute to reducing traffic congestion and improving regional air quality. Applicants must demonstrate how their project/program will have a direct impact on reducing SOV travel, improving air quality, and reducing traffic congestion. Eligible project types may include, but are not limited to:

- Public education, marketing and outreach promoting or expanding use of non-SOV mobility
- Innovative projects that pilot and demonstrate effectiveness of approach.
- Market research that helps identify opportunities to promote non-SOV mobility

Funding Requirements

Applicants may request funding for up to two years for federal fiscal years 2022 and 2023. There is no funding minimum or maximum. However, a single entity will not be awarded more than 50% of the available funds. Project sponsors should clearly describe how the funding request is supported by the work proposed for the project.

A local cash or in-kind match of at least 17.21% of the total project cost is required (federal share equals 82.79%). CDOT is the steward of these funds and does not track overmatch. If a sponsor wants to commit more funding to the project on their own, they may do so.

Application Process

1. **Attend a mandatory TDM Services set-aside pre-application workshop**
2. **Identify the project concept and begin early discussions with DRCOG staff** (strongly encouraged, not required)
3. **Submit a letter of intent**

   With a multi-step application process, interested applicants should submit a letter of intent and include applicant's contact information, a project description and estimated project cost. Supplemental materials will be accepted if they contribute to the understanding of project being proposed.

4. **Letter of intent discussion**

   DRCOG staff will review the letter of intent and request additional information as needed. Applicants will be contacted by staff to discuss the proposal before next steps are taken. This will include screening of project proposals for eligibility, identification of potential partners and or project links, and an opportunity to discuss proposed project outcomes. If the letter of intent is accepted, sponsors will be invited to apply.

5. **Invited applicants, complete and submit an application**

   Applications should be submitted along with letters of support from impacted or participating entities. No more than two applications per sponsor will be accepted. Per CDOT requirements, the application requires a mandatory Risk Assessment form to be submitted along with the application.

6. **Project review, scoring and recommendation**

   Applications will be reviewed and scored based on the set-aside evaluation criteria. The project review panel will prepare a recommendation to present to DRCOG's Transportation Advisory Committee and Regional Transportation Committee for a recommendation prior to a presentation to the Board of Directors for approval.

7. **Applicants are notified about approved projects**

Project Funding Evaluation and Selection Process

DRCOG will establish a project review panel to assist with scoring and evaluating projects. Participants may include staff from DRCOG divisions:

- Transportation Planning and Operations
- Regional Planning and Development
- Communications and Marketing (Way to Go)
- Area Agency on Aging, and/or
- Executive Office

The review panel will also include external stakeholders and subject matter experts who may represent:

- Federal Highway Administration

- Colorado Department of Transportation
- Colorado Department of Public Health and Environment
- Regional Air Quality Council
- Regional Transportation District
- Transportation demand management professionals

Each member of the panel will review the applications and assign points to the criteria based on information contained in the project application forms. See section A below.

In addition, DRCOG staff will score based on data-driven criteria listed in section B below.

The panel will convene to discuss the applications and scoring and reach consensus on the list of recommended projects to be funded by the *TDM* services set-aside. The recommended list of projects will be taken through DRCOG committees for review and final approval by the DRCOG Board of Directors.

Evaluation criteria

TDM Evaluation Criteria				
A. Scored by Project Review Panel				
Criterion	**Category**	**Specific Measure (if applicable)**	**Scoring**	**Points (Max)**
1	**Motor Vehicle Trip and VMT Reduction Potential** (Based on attributes provided in application specific to infrastructure and to non-infrastructure projects)	Vehicle Trips, VMT	1 – Low <range> 25 – High **consider reliability and realism of attributes and assumptions used to reflect decreased VMT and improve air quality	25
2	**Level of Innovation and Uniqueness** (uniqueness of project type, market geographic area, market population/demographics)		1 – Does not reach new market or is continuation of existing service/project/campaign; very similar to past endeavors <range> 15 – Totally new (market/connections/project type) and unique; project reaches completely new area and/or serves/targets a new demographic; project is unlike anything tried in the region in the past	15
3	**Replicability**		If successful, can the project be replicated to benefit more areas of the region? 1 – The concept or approach has little or no application beyond the defined project area and timeline <range> 12- The concept or approach offers great promise to be replicated in part or in whole across the region	12
4	**Access**		Project improves access to mobility options for people of all ages, incomes, abilities, etc. 1- The project will primarily benefit a limited demographic group <range> 8- The project clearly demonstrates benefits to people across the socio-economic, age and ability spectrums	8
5	**Funding Effectiveness Potential**	Project Cost/User Base	1 – Higher cost for smaller user base <range> 5 – Lower cost for larger user base **consider reliability and realism of assumptions used in the calculation of results	5

6	**Project & Applicant Readiness**		1 – Sponsor just getting started, extensive additional coordination required <range> 5 – Sponsor is ready to go and an experienced partner in TDM projects; coordination between agencies is strong; right of way has been acquired	5
7	**Timing/Synergy of Project**		1 – Benefits may be years out, undeveloped area, no link to roadway or transit project <range> 5 – Immediate benefits/link to major roadway/rapid transit project; project coincides with an immediate major construction project (traffic congestion) or opening of new rapid transit line/segment	5
			TOTAL PROJECT REVIEW COMMITTEE	75
B. Measured/Scored by DRCOG Staff:				*Max*
8	**Short Trip Opportunity Potential**	Is the project within a short trip opportunity zone? *Short trip opportunity zones defined in DRCOG Active Transportation Plan	1 – Project is not located in a short trip opportunity zone range based on percent of project area that is identified as a short trip opportunity zone, normalized based on projects submitted 7 – Project area serves short trip opportunity zone(s)	7
9	**Environmental Justice Area**	EJ Population (Minority, Low-Income)	1 – Does not serve any EJ area range based on percent of project area that is identified as an EJ area, normalized based on projects submitted 6 – Entirely in EJ area	6
10	**Serves DRCOG Designated Urban Centers** (UCs)	Urban Centers: Existing and Emerging Dataset	1 – No Urban Centers range based on percent of project area that is identified as an urban center, normalized based on projects submitted 6 – Strongly serves/focuses on established UCs	6
11	**Financial Partners**		0 – No other financial partners 2 – One additional financial partner 3 – If two+ partners (must be identified in application as funding match partners)	3
12	**Local Match**		0 – Any "in-kind" 3 – All cash	3
			TOTAL DRCOG STAFF REVIEW	25
			TOTAL PROJECT REVIEW COMMITTEE	75
			TOTAL	100

Award Conditions

- Funding provided to local government sponsors should not replace existing local funding for staff.

- Applicants should not request funding for projects, activities, or services that are currently performed by other agencies or government entities. Applicants should not request funding for projects, activities, or services that are currently performed by, or may compete with, the private sector.

- All project scopes of work are subject to review and approval by DRCOG and CDOT.

- Each applicant awarded funds will sign an IGA and enter into a contract with the Colorado Department of Transportation (CDOT) to implement the project depending on the type, location and other characteristics of the project. CDOT is the ultimate steward of these federal funds. CDOT will specify requirements for status reporting and reimbursement requests.

- Each awarded project sponsor will be required to attend reimbursement training (approximately 4 hours) that defines the documentation required for tracking expenses and requesting reimbursement.

- Project sponsors will be expected to work closely with Way to Go, the regional TDM brand, to identify synergies and cross-promotion opportunities.

- Each awarded project sponsor will be required to attend a post-project debrief with DRCOG staff, and to submit a final report.

- Projects must be completed within two years from the contract start date.

- Project sponsors will work with DRCOG, CDOT, RTD (as appropriate), and FHWA/FTA to ensure that the project is being implemented in accordance with federal requirements.

ATTACH C

To: Chair and Members of the Transportation Advisory Committee

From: Josh Schwenk, Assistant Planner
        jschwenk@drcog.org

Meeting Date	Agenda Category	Agenda Item #
June 28, 2021	Action	5

SUBJECT

FY2022 and FY2023 Unified Planning Work Program (UPWP) for the Denver Region

PROPOSED ACTION/RECOMMENDATIONS

Recommend to the Regional Transportation Committee the draft *FY2022-FY2023 Unified Planning Work Program for the Denver Region*

ACTION BY OTHERS

N/A

SUMMARY

The Unified Planning Work Program (UPWP) outlines the transportation planning activities and tasks to be conducted within the region with federal transportation planning funds. The document also lists other major transportation planning activities performed by local governments and partner agencies.

The new FY2022 and FY2023 UPWP outlines activities to be conducted from October 1, 2021 through September 30, 2023, and was prepared with input from CDOT, RTD, and local government staff. It represents over $18 million in planned expenditures with over 70 deliverables.

Some key priorities over the next two years include:
- Administer the core Metropolitan Planning Organization transportation planning program and the metropolitan transportation planning process is conducted in compliance with applicable federal and state laws and regulations.
- Maintain and implement Metro Vision and the 2050 Regional Transportation Plan.
- Collect and disseminate regional bicycle facility counts.
- Prepare and adopt the FY2024-2027 Transportation Improvement Program (TIP) Policy.
- Conduct calls for projects and prepare and adopt the 2024-2027 TIP.
- Update, compile and report on the implementation of federally-required transportation performance measures.
- Maintain the regional transportation operations program and update the DRCOG Regional Intelligent Transportation Systems Architecture.
- Maintain and continue implementing the Taking Action on Regional Vision Zero Plan.
- Maintain and continue implementing the Active Transportation Plan.
- Lead/coordinate corridor plans for priority regional multimodal corridors.
- Lead/coordinate community-based transportation plans to improve mobility options for low-income and disadvantaged populations.

PREVIOUS DISCUSSIONS/ACTIONS

April 5, 2021 – TAC

PROPOSED MOTION

Move to recommend to the Regional Transportation Committee the draft *FY2022-FY2023 Unified Planning Work Program* (UPWP).

ATTACHMENTS

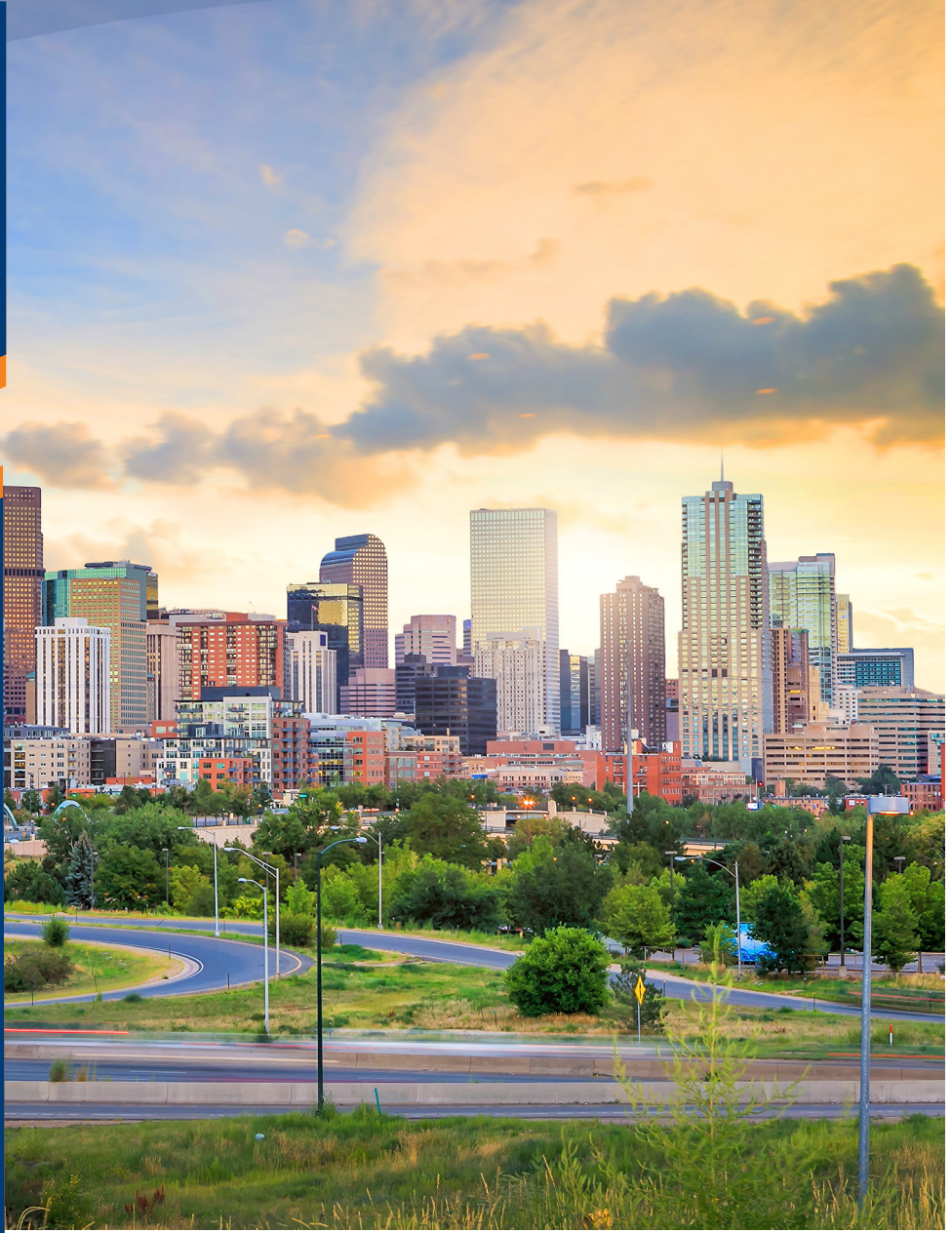1. Draft *FY2022-FY2023 Unified Planning Work Program* (UPWP)
2. Staff presentation

ADDITIONAL INFORMATION

If you need additional information, please contact Josh Schwenk, Assistant Planner, at jschwenk@drcog.org.

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2022-2023 UNIFIED PLANNING WORK PROGRAM

for the Denver region

Denver Regional Council of Governments

FY 2022 and FY 2023
UNIFIED PLANNING WORK PROGRAM
FOR THE DENVER REGION

DRAFT
June 28, 2021

ABSTRACT

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

AUTHOR: Denver Regional Council of Governments

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

DATE: Adopted ▆▆▆▆▆▆

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Denver Regional Council of Governments
1001 17th St., Suite 700
Denver, CO 80202
(303) 455-1000
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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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FIGURE / TABLES

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
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
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
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 21st 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
SOV	Single Occupancy Vehicle
STAMP/UC	Station Area Master Plan/Urban Center Set-Aside
STBG	Surface Transportation Block Grant
STIP	State Transportation Improvement Program
TA	Transportation Alternatives
TAC	Transportation Advisory Committee
TAM	Transit Asset Management
TAZ	Transportation Analysis Zone
TDM	Transportation Demand Management
TIP	Transportation Improvement Program
Title VI	Title VI of the 1964 Civil Rights Act
TMA	Transportation Management Area
TMAs	Transportation Management Associations
TOD	Transit Oriented Development
TPD	Tons Per Day
TRB	Transportation Research Board
TRIPS	Transportation Regional Improvement Projects & Survey
ULI	Urban Land Institute
UPWP	Unified Planning Work Program
USC	United States Code
USDOT	United States Department of Transportation
VMT	Vehicle Miles Traveled
VOC	Volatile Organic Compounds

II. INTRODUCTION

PURPOSE

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

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

BACKGROUND

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

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

Figure 1. Transportation Management Area
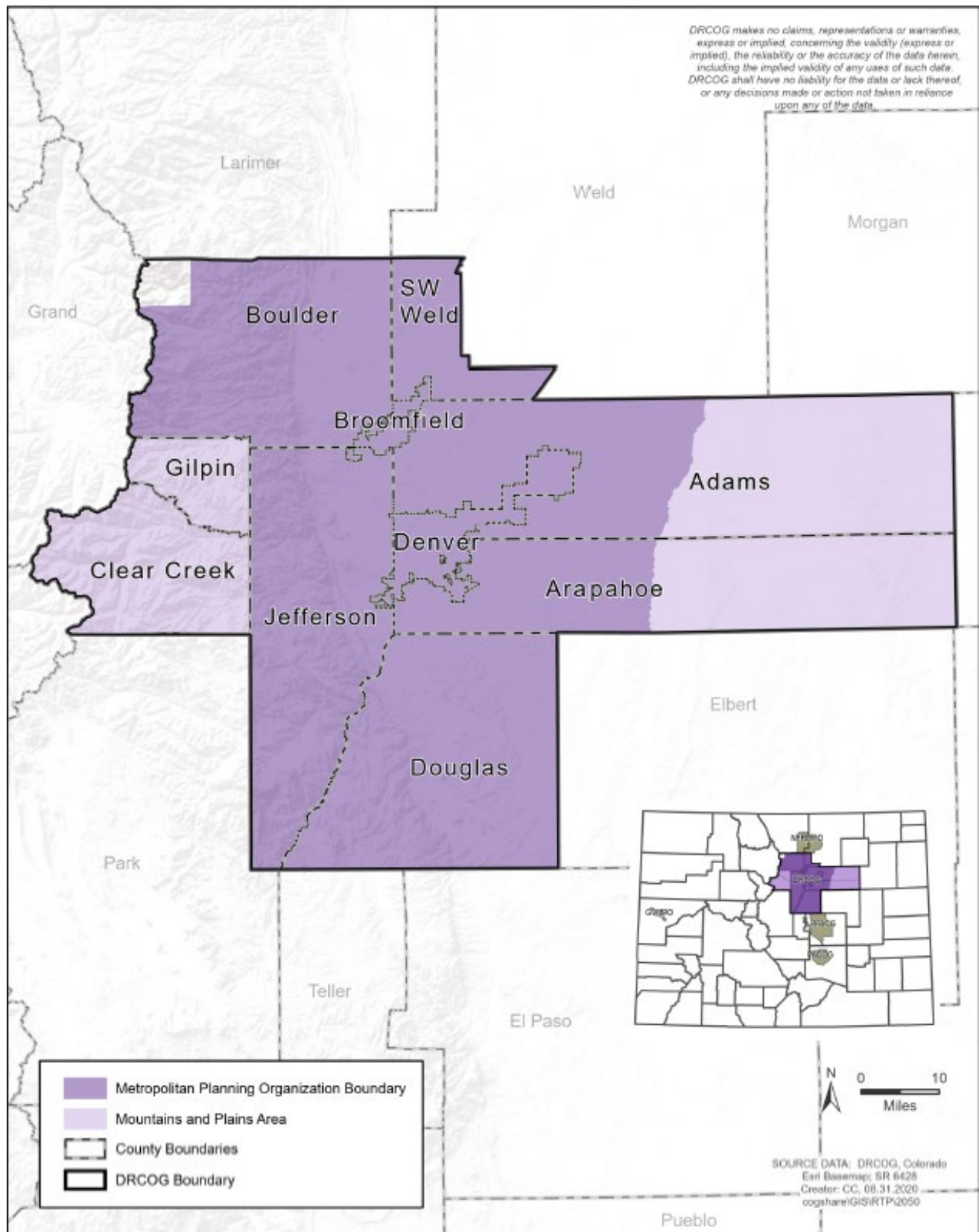
III. REGIONAL TRANSPORTATION PLANNING CONTEXT

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.

<div align="center">

GUIDELINES FOR PLANNING ACTIVITIES

</div>

Federal Transportation Planning Factors

The Fixing America's Surface Transportation (FAST) Act was signed into law in December 2015. It carries forward the planning principles of its predecessor, Moving Ahead for Progress in the 21st Century Act (MAP-21), signed into law in 2012. 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 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 3.1 – implement Metro Vision Plan, a shared vision of the metro area; evaluate the social, environmental, land use, and economic impacts of transportation plans
   - Activity 3.5 – conduct air quality conformity determinations on transportation investments identified in the TIP and MVRTP; continue to host Interagency Consultation Group (ICG) meetings
   - Activity 3.6 – promote non-motorized forms of transportation
   - Activity 6.2 to 6.7 – continue to assess transit needs and promote transit options

6. **Enhance the integration and connectivity of the transportation system, across and between modes, and for people and freight.**
   - Activity 1.4 and 2.3 – coordinate with CDOT, RTD, and local governments with regard to transportation network improvements
   - Activity 3.3 – maintain 2050 MVRTP
   - Activity 3.7 – maintain and implement regional multimodal freight plan
   - Activity 5.1 – continue a congestion management process that integrates transportation operations, travel demand management, and intelligent transportation systems (ITS) as mitigation tools

- Activity 5.5 – develop strategies to implement advanced transportation technologies
- Activity 6.2 to 6.7 – continue to assess transit needs and promote transit options
- Activity 7.1 and 7.4 – maintain an inventory of regional base maps and datasets

7. **Promote efficient system management and operation.**
   - Activity 1.4 and 2.3 – coordinate with CDOT, RTD, and local governments with regard to transportation network improvements
   - Activity 3.4 – monitor the performance of the transportation system
   - Activity 4.3 – monitor the progress and results of TIP projects
   - Activity 5.1 and 5.2 – promote operational efficiencies of the existing roadway system
   - Activity 5.5 – develop strategies to implement advanced transportation technologies
   - Activity 7.1 and 7.4 – maintain an inventory of regional base maps and datasets
   - Activity 7.2 and 7.3 – analyze future travel demand

8. **Emphasize the preservation of the existing transportation system.**
   - Activity 4.3 – monitor the progress and results of TIP projects
   - Activity 5.1 – continue a congestion management process that integrates transportation operations, travel demand management, and intelligent transportation systems (ITS) as mitigation tools
   - Activity 5.2 – enhance the effectiveness of the region's existing transportation system
   - Activity 7.1 and 7.4 – maintain an inventory of regional base maps and datasets that provide information about transportation facility condition

9. **Improve resiliency and reliability of the transportation system and reduce or mitigate stormwater impacts of surface transportation.**
   - Activity 2.3 – provide support to regional NEPA and other environmental efforts
   - Activity 5.1 – continue a congestion management process that integrates transportation operations, travel demand management, and intelligent transportation systems (ITS) as mitigation tools
   - Activity 5.2 – enhance the effectiveness of the region's existing transportation system
   - Activity 6.2 to 6.7 – continue to assess transit needs and promote transit options

10. **Enhance travel and tourism.**
    - Activity 2.3 – coordination of planning efforts with neighboring regions to address interregional issues and opportunities
    - Activity 3.6 – monitor efforts, provide assistance, and prepare products that support pedestrian and bicycle transportation activities
    - Activity 5.2 – enhance the effectiveness of the region's existing transportation system
    - Activity 6.1 to 6.7 – improve local and regional transit access and mobility through increased planning and coordination

Federal Planning Emphasis Areas

Both FHWA and FTA require the metropolitan transportation planning process be responsive to federal planning emphasis areas, if any exist. Currently, there are none covering FY 2022-2023. If at any time during the fiscal years of this UPWP new planning emphasis areas are identified, they will be amended into this document.

Planning Priorities

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

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

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

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

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

- Review and updates to the Taking Action on Regional Vision Zero plan High-Injury Network and Critical Corridors, as well as supporting the implementation activities of the Vision Zero Work Group,
- Denver Regional Active Transportation Plan implementation activities such as the Complete Streets Toolkit and other associated activities,
- Continued implementation of transportation technology improvements associated with Mobility Choice Blueprint, including activities of the Micromobility Work Group and Advanced Mobility Partnership.

DRCOG Nondiscrimination and Accessibility

Transportation planning activities must be consistent with Title VI of the Civil Rights Act of 1964 and additional nondiscrimination statutes. DRCOG continues to update the Disadvantaged Business Enterprise Program, originally prepared in 1999, as needed. In

2017, DRCOG completed new Title VI complaint procedures. In 2018, DRCOG adopted a Title VI Implementation Plan and a Limited English Proficiency (LEP) Plan. In 2019, the Title VI Implementation Plan was updated and the DRCOG Americans with Disabilities Act (ADA) Program Access Plan was developed. DRCOG staff has begun the process to update the Title VI Implementation Plan, LEP Plan, and ADA Program Access Plan, with anticipated adoption in September 2021. The current versions of these documents are available on DRCOG's website for public access. In addition, DRCOG continues to participate in the Colorado Unified Certification Program that was approved by the US Department of Transportation (USDOT) in April 2004.

Federal Quadrennial Review Comments

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

Integrate the Congestion Management Program Process

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

Relationship to Air Quality Planning

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

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

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

In 2008, the U.S. Environmental Protection Agency (EPA) lowered the National Ambient Air Quality Standards (NAAQS) for ground-level ozone to 0.075 parts per million (ppm) from the 1997 standard of 0.085 ppm. On April 30, 2012, the EPA designated Denver Metro/North Front Range (DM/NFR) Area as marginal nonattainment under the 2008 ozone standard (0.075 ppm). The marginal nonattainment designation did not impose any new planning requirements on the State of Colorado. The DM/NFR Area failed to meet the standard before 2015 and was reclassified as moderate nonattainment. As a result, an updated Ozone SIP was completed and submitted to the state legislature in early 2017, including lowered motor vehicle emission budgets. EPA found the new budgets adequate in March 2018. In 2019, EPA reclassified the DM/NFR Area as serious nonattainment of the 2008 standard and an updated SIP is under development.

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

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

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

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

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

STATUS OF DRCOG PLANNING DOCUMENTS

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

Document	Action/Date
Metro Vision Plan	Amended May 2019
2050 Metro Vision Regional Transportation Plan	Adopted April 2021
2022-2025 Transportation Improvement Program	Amended June 2021
Taking Action on Regional Vision Zero	Adopted June 2020
Regional Multimodal Freight Plan	Adopted May 2020
Denver Regional Active Transportation Plan	Adopted January 2019
Denver Regional Intelligent Transportation Systems Deployment Program	Adopted June 2014
Title VI Implementation Plan	Updated August 2019
DRCOG ADA Program Access Plan	Developed August 2019
Limited English Proficiency Plan	Adopted April 2018
Public Engagement Plan	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**
  - o 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**
  - o Conducted annual requests for status updates on TIP-funded bicycle and pedestrian projects.
- **Active Transportation Plan**
  - o Coordinated with transportation management associations to include greater emphases on bicycling.
  - o Included Active Transportation emphasis areas (Pedestrian Focus Areas, Short Trip opportunity Zones and Active Transportation Corridors) in regional interactive maps.
  - o Presented to interest group on components of the Active Transportation Plan.
  - o Hosted FHWA Bikeway Selection Guide Workshop in October 2019.
  - o Participated on Colorado Safe Routes to School Advisory Committee.
- **Regional Bicycle Use Count Program**
  - o Completed white paper on count implementation options.
  - o 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.
  - o Conducted short duration counts at selected TIP project sites.
  - o Collected annual bicycle and pedestrian counts from DRCOG's local jurisdictions.
  - o Implemented an online regional bicycle and pedestrian count platform.
- **Regional Complete Streets Toolkit**
  - o Held a project kick off meeting and 3 steering committee meetings with regional stakeholders.
  - o Held 4 focus group meetings with local government for direction on developing regional street typologies.
  - o 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.
  - o Created Regional Street Typologies, that were also included in the 2050 MVRTP.
  - o Created a public questionnaire and interactive public engagement map, over 375 questionnaire responses and 725 map comments received.
  - o Regional Complete Streets Toolkit adoption summer 2021.

Transportation Improvement Program (TIP)

- **TIP Set-Asides**

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

DRCOG Congestion Management Process

- Completed 2018 Report on Traffic Congestion.
- Completed 2019 Report on Traffic Congestion.
- Updated traffic count inventory.
- Completed Data Brief on COVID-19's Effects on Traffic Volumes.

Regional Travel Demand Management (TDM) Planning

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

Regional Transportation Operations & Technology

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

Transportation Security Planning

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

Transportation Safety Planning

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

Transportation Technology Planning and Advanced Mobility Partnership

- Facilitated and hosted quarterly regional Micromobility Work Group meetings.
- Released Shared Micromobility in the Denver Region document detailing local agency considerations for regional consistency when implementing shared micromobility programs.
- Launched multi-agency, cross-jurisdictional shared micromobility data pilot, using Ride Report.
- Hosted day-long Mobility Data Specification Workshop for regional stakeholders.
- Participated in statewide and regional efforts including Colorado Electric Vehicle Coalition Micromobility Subgroup, CDOT Emerging Mobility Impact Policy Committee, University of Denver Mobility Beyond Being Smart: Freight Workshop, APA Colorado MURP Panel, Denver Electric Vehicle Steering Committee, Colorado Smart Cities Alliance Deployment Board Workshop, and Moving People Forward conference presentations.

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

Regional Transit/Human Service Transportation Planning and Coordination

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

Develop and Maintain Information Systems

- Completed the 2020 annual data collection process, gathering data from local governments to assemble regional datasets, and initiated 2021 process.
- Developed numerous GIS datasets in support of local and regional planning efforts (i.e. ACS vulnerable populations, bike counts, CDOT Inventory Road Information System (IRIS), CDOT Linear Referencing System (LRS), compiled local zoning, crash data, high-injury network, critical corridors, etc.).

- Launched new Experience Builder webmaps (i.e. traffic signals, TIP, etc.) and updated other web-based data catalogs and visualizations.
- Published new and updated data to the Regional Data Catalog.
- Hosted DRDC meetings.
- Completed the 2018 Planimetric Project.
- Completed the 2020 Denver Regional Aerial Photography Project (DRAPP).
- Developed agency-wide Data Privacy Policy related to collection, storage, analysis and reporting of protected data.
- Reviewed and verified selected statistical area boundaries for 2020 Census data tabulation following U.S. Census Bureau guidelines and criteria.

Develop and Maintain Land Use Modeling and Forecasting Systems

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

Transportation Modeling and Forecasting

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

Regional Transportation Dataset/Data Platform

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

IV. DRCOG PLANNING ACTIVITIES

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

OBJECTIVE 1.0   PROGRAM ADMINISTRATION AND COORDINATION

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

Activity 1.1   Direct Program Management

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

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

Participants: DRCOG

Activity 1.2   DRCOG Staff Training and Development

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

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

Participants: DRCOG

Activity 1.3   Unified Planning Work Program

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

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

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

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

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

Activity 1.4   MPO Compliance

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

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

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

OBJECTIVE 2.0   PLANNING COORDINATION AND OUTREACH

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

Activity 2.1   DRCOG Public Engagement and Outreach

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

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

Deliverables:

2022
- Annual Report of Public Engagement Activities

2023
- Annual Report of Public Engagement Activities

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

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

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

Tasks:
- Educate local governments and other interested parties about the DRCOG transportation planning process, federal regulations, and associated documents
- Meet with local governments about their transportation planning issues and needs and provide support and technical assistance as necessary

- Meet and coordinate with local governments, and their planning and development partners, about local planned growth and development patterns; seek feedback on small area forecasts of households and employment, as needed
- Facilitate forums and educational opportunities for local government staff, data professionals, and other stakeholders to collaborate and exchange information
- Pilot a new transportation-land use connection technical assistance program for local agencies
- Host and convene the DRDC, an open and voluntary committee made up of GIS professionals interested in collaborative data initiatives

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

Activity 2.3   Regional Planning Coordination

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

Tasks:
- Maintain communication, coordinate, and exchange information with partners on planning for transportation facilities and services adjacent to mutual border; attend Statewide MPO Committee meetings; coordinate with neighboring MPOs on growth and development forecasting
- Host the Agency Coordination Team (ACT) and Interagency Consultation Group (ICG), and participate in CDOT and RTD regularly-scheduled meetings in order to facilitate communication among planning partners
- Monitor, participate, and assist with statewide or interregional transportation planning activities, corridor studies, NEPA studies, Planning & Environmental Linkage Studies (PELs), and funding opportunities. Implement or incorporate outcomes into planning documents as appropriate
- Provide model components and outputs to planning partners, local governments, or consultants conducting NEPA or other studies
- Participate in and/or monitor the state transportation-related enterprises and committees including: High-Performance Transportation Enterprise, Statewide Bridge Enterprise, CDOT Transit & Rail Advisory Committee, CDOT Efficiency & Accountability Committee, State Transportation Advisory Committee, Southwest Chief & Front Range Passenger Rail Commission, and others as appropriate
- Participate in regional transportation funding initiative

Participants: DRCOG (lead), CDOT, RTD

OBJECTIVE 3.0   LONG RANGE AND MULTIMODAL PLANNING

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

Activity 3.1   Metro Vision Plan – Collaboration and Implementation Assistance

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

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

Deliverables:

2022
- Amendments (if any) to Metro Vision

2023
- Amendments (if any) to Metro Vision

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

Activity 3.2   Metro Vision Plan – Research and Performance Management

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

Tasks:
- Routinely analyze and share progress on Metro Vision outcomes, including documentation of successes, ongoing challenges, and regional issues
- Provide data, tools, and information that support local and regional plans and initiatives to address regional issues and help achieve Metro Vision
- Collect, compile, and purchase data in support of Metro Vision performance measurement

- Develop, maintain, and update the Denver Regional Visual Resources that allow internal and external users to explore and consume information
- Work with local governments and other stakeholders to understand the need for data, tools, and other enhancements that improve the ability to explore, consume, and contribute to regional data products
- Support regional and local scenario analysis, including impacts of alternative land use and development patterns

Deliverables:
2022
- Metro Vision performance measure status report
- Community and Legislative Profiles redesign and update
- Regional Data Briefs

2023
- Metro Vision performance measure status report
- Community and Legislative Profiles update
- Regional Data Briefs

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

Activity 3.3 Metro Vision Regional Transportation Plan

Purpose: Maintain the 2050 MVRTP.

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

Deliverables:
2022
- Amendments (if any) to the 2050 MVRTP

2023
- Amendments (if any) to the 2050 MVRTP

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

Activity 3.4   Federal Performance Measure Reporting

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

Tasks:
- Compile data associated with transportation performance measures for PM1, PM2, PM3, Transit Asset Management, and Public Transportation Agency Safety Plan
- Work with planning partners to set or revise targets and develop baselines for each federal performance measure
- Prepare performance measure reports, and/or assist CDOT with preparing performance measure reports
- Prepare/update CMAQ performance plan of TIP-funded projects
- Work to integrate performance measures into other DRCOG work products, as appropriate

Deliverables:

2022
- Target reporting for federally required performance measures
- CMAQ performance plan

2023
- Target reporting for federally required performance measures

Participants: DRCOG (lead), CDOT, RTD

Activity 3.5   Air Quality and Conformity

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

Tasks:
- Monitor federal and state legislation regarding new standards, requirements, or procedures impacting transportation. Assist air quality agencies (i.e., APCD, RAQC), as needed
- Monitor the readings and trends of criteria pollutants in relation to established attainment standards
- Host the Interagency Consultation Group (ICG) in order to facilitate better communication among planning partners and make air quality process decisions
- Prepare highway and transit networks (DRCOG), update planning assumptions, perform air quality conformity model runs (DRCOG and APCD), and review highway networks (CDOT) and transit networks (RTD) associated with amendments of the 2050 MVRTP
- Provide travel model data results in support of air quality conformity analyses
- Prepare air quality conformity findings (DRCOG) and assess findings (APCD and AQCC) associated with amendments to the MVRTP
- Participate in the development of the new ozone State Implementation Plan (SIP) (carryover from FY 2020-2021 UPWP)
- Continue with activities associated with the Regional Haze SIP

- Assist with local and regional analyses of emissions, greenhouse gases, and other air quality topics

Deliverables:
2022
- Conformity Determination Reports for MVRTP amendments (as needed)
2023
- Conformity Determination Reports for MVRTP amendments (as needed)

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

Activity 3.6   Active Transportation and TDM Planning
Purpose: Monitor efforts, provide assistance, and prepare products that support active transportation activities and transportation demand management (TDM) services consistent with the MVRTP.

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

Deliverables:
2022
- Regional bicycle facility inventory
- Report on status of TIP-funded active transportation and TDM projects
2023
- Regional bicycle facility inventory
- Report on status of TIP-funded active transportation and TDM projects

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

Activity 3.7   Regional Freight Planning

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

Tasks:
- Maintain and update as needed the DRCOG Regional Multimodal Freight Plan
- Participate in the National Highway Freight Program project selection process and designate Critical Urban Freight Corridors (as needed) based on project selection
- Participate in Freight Advisory Council meetings

Participants: DRCOG (lead), CDOT, local governments

Activity 3.8   Corridor Planning

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

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

Deliverables:
2023
- Corridor Plan

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

Activity 3.9   Community Based Transportation Plans

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

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

Deliverables:
2022
- Community Based Transportation Plan #1

2023
- Community Based Transportation Plan #2

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

OBJECTIVE 4.0   PROJECT PROGRAMMING

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

Activity 4.1   Prepare Transportation Improvement Program

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

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

Deliverables:
2022
- Adopt 2024-2027 TIP Policy document

2023
- Adopt 2024-2027 TIP document

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

Activity 4.2   Transportation Improvement Program Set-Asides

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

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

Deliverables:
2022
- Adopt policies, procedures, and projects for the TDM and Human Services Transportation Set-Asides

2023
- Adopt policies, procedures, and projects for the RTO&T Set-Aside

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

Activity 4.3   Transportation Improvement Program Management

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

Tasks:
- Prepare amendments and monthly administrative modifications to the current TIP, and maintain an up-to-date version of the current TIP document on

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

Deliverables:

2022
- Amendments and administrative modifications, as necessary
- FY 2021 Projects Delayed Report
- FY 2021 Annual Listing of Obligated Projects

2023
- Amendments and administrative modifications, as necessary
- FY 2022 Projects Delayed Report
- FY 2022 Annual Listing of Obligated Projects

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

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

Deliverables:

2022
- Annual Report of Traffic Congestion in the Denver Region

2023
- Annual Report of Traffic Congestion in the Denver Region

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

Activity 5.2   Regional Transportation Operations & Technology

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

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

Deliverables:

2022
- Annual update to the DRCOG Regional ITS Architecture
- Updates (as needed) to the Regional Transportation Operations and Technology Plan

2023
- Final selection of projects for the RTO&T Set-Aside (FY 2024-26)
- Annual update to the DRCOG Regional ITS Architecture
- Updates (as needed) to the RTO&T Plan

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

Activity 5.3   Transportation Security Planning

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

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

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

Activity 5.4   Transportation Safety Planning

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

Tasks:
- Geocode and perform quality checks on crashes in the Denver region that are off the state highway system, as data is made available. House and update the annual crash database of all crashes in the region and disseminate data
- Prepare crash and safety analyses, as needed
- Respond to requests for information
- Coordinate with corridor planning initiatives on safety-related aspects
- Maintain, implement, and update Taking Action on Regional Vision Zero, including hosting monthly Regional Vision Zero Work Group meetings to coordinate implementation activities

Deliverables:
2022
- Update Taking Action on Regional Vision Zero High Injury Network

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

Activity 5.5   Innovative Mobility Planning

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

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

Deliverables:
2022
- Shared micromobility data platform pilot evaluation
- Regional inventory of emerging and innovative mobility programs, projects and pilots

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

OBJECTIVE 6.0   PUBLIC TRANSPORTATION PLANNING

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

Activity 6.1   Regional Transit/Human Service Transportation Planning and Coordination

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

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

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

Activity 6.2   FasTracks Review and Assessment

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

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

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

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

Participants: DRCOG, RTD

Activity 6.3   RTD Local Government Planning Process

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

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

Participants: RTD (lead), local governments, DRCOG

Activity 6.4   RTD Financial Planning

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

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

Deliverables:

2022
- 2023-2028 Mid-term Financial Plan for input into the TIP

2023
- 2024-2029 Mid-term Financial Plan for input into the TIP

Participants: RTD

Activity 6.5   RTD Base System Planning

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

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

Participants: RTD (Lead), DRCOG, CDOT

Activity 6.6   Transit Facility Planning

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

Tasks:
- Prepare quarterly Park-n-Ride use reports and biannual user distribution geocoding and mapping
- Participate in local jurisdiction land-use planning processes for station areas
- Pursue joint development at RTD transit stations where practical and consistent with local government land use plans and state law governing eminent domain and RTD operations

- Monitor and evaluate transit priority implementation in the region
- CDOT and RTD led Mobility Hub planning at priority locations identified in partnership among RTD, CDOT, and DRCOG
- Benchmark Transit Oriented Development (TOD) activity in annual status report and FasTracks Quality of Life study
- Provide ongoing TOD education and outreach
- Support facility planning

Deliverables:
2022
- Mobility Hub plan(s) (carryover from FY 2020-2021 UPWP)
- State of transit priority implementation report

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

Activity 6.7   FasTracks Program Management and Planning Assistance

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

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

Deliverables:
2022
- FasTracks Change Report (if needed)
2023
- FasTracks Change Report (if needed)

Participants: RTD and DRCOG

OBJECTIVE 7.0   PLANNING DATA AND MODELING

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

Activity 7.1   Develop and Maintain Information Systems

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

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

Deliverables:

2022
- Agency-wide cloud storage data and document migration (carryover from FY 2020-2021 UPWP)
- Annual local data inventory
- 2020 Denver Regional Planimetric Project deliverables (carryover from FY 2020-2021 UPWP)
- 2020 Regional Land Cover Project deliverables

2023
- 2022 DRAPP deliverables
- Annual local data inventory

Participants: DRCOG (lead), local governments

Activity 7.2   Land Use Modeling and Forecasting

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

Tasks:
- Collect, compile, and purchase data to update and improve UrbanSim model inputs (i.e., employment, zoning/development constraints, scheduled development)
- Document, automate, and improve model input and output processing workflows and storage routines
- Coordinate with the State Demography Office at DOLA in their updates to household and employment control totals
- Improve the ability of UrbanSim to handle multiple, complex control total options

- Update UrbanSim choice models (i.e. specification, estimation, and calibration) and pursue other improvements and enhancements to the UrbanSim model as needed
- Coordinate with other MPOs and peer agencies using the UrbanSim model
- Prepare new forecast runs annually in anticipation of potential amendment cycles; incorporate feedback from local governments as needed

Deliverables:
2022
- Small-area forecast data on the Regional Data Catalog when reviewed and used in an amendment cycle (if any)

2023
- Small-area forecast data on the Regional Data Catalog when reviewed and used in an amendment cycle (if any)

Participants: DRCOG (lead), local governments, DOLA

Activity 7.3   Transportation Modeling and Forecasting
Purpose: Maintain, operate, expand, and refine the transportation modeling and forecasting tools.

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

Deliverables:
2022
- Updated and validated Focus model runs and output data files used for air quality conformity determinations and other studies

2023
- Fully recalibrated and validated Focus model incorporating outputs of the statewide travel surveys
- Model runs and output data files used for air quality conformity determinations and other studies

Participants: DRCOG (lead), CDOT, RTD

Activity 7.4   Maintain Transportation and Related Data
Purpose: Obtain, maintain, and distribute transportation and related data to be used in the regional transportation planning process.

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

Deliverables:
2023
- Transportation Improvement Survey

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

Activity 7.5   Regional Mobility Data Platform
Purpose: Identify opportunities and tools to effectively collect, manage, and maintain transportation data from transportation providers.

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

Deliverables:
2022
- Regional mobility data platform concept paper

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

V. OTHER MAJOR PLANNING ACTIVITIES

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

Identified in a previous/current Transportation Improvement Program

SPONSOR	DESCRIPTION
Roadway and/or Transit-Related Study (Corridor/Interchange/Operational Studies/EA/EIS)	
Adams County	• I-270 Corridor Environmental Assessment (carryover from FY 2020-2021 UPWP)
Arapahoe County	• Parker Rd. PEL Study: Mississippi Ave. to Hampden Ave. (carryover from FY 2020-2021 UPWP) • US-85 PEL Study: C-470 to I-25 (carryover from FY 2020-2021 UPWP)
Aurora	• 13th Ave. Corridor Multimodal Mobility Study (carryover from FY 2020-2021 UPWP)
Boulder County	• US-287 BRT Feasibility & Safety Study: Longmont to Broomfield
Broomfield	• Active Transportation Wayfinding Pilot (carryover from FY 2020-2021 UPWP) • Broomfield Transit Needs Assessment & Pilot Project (carryover from FY 2020-2021 UPWP) • Midway Blvd. Multimodal Corridor Action Plan (carryover from FY 2020-2021 UPWP) • SH-7 Preliminary and Environmental Engineering • US-287/120th Ave. Multimodal & Safety Study (carryover from FY 2020-2021 UPWP)
CDOT Region 1	• C-470: Wadsworth to I-70 (carryover from FY 2020-2021 UPWP)
CDOT Region 4	• SH-52 PEL Study: SH-119 to I-76 (carryover from FY 2020-2021 UPWP)
Commerce City	• 88th Ave. NEPA Study: I-76 to Hwy 2
Denver	• Transit Speed & Reliability on Federal Blvd. (carryover from FY 2020-2021 UPWP)
Englewood	• US-285 Congestion Management Study (carryover from FY 2020-2021 UPWP)
Jefferson County	• Front Range Trail Study (carryover from FY 2020-2021 UPWP) • Jefferson County Bike Master Plan Update (carryover from FY 2020-2021 UPWP)
Littleton	• Broadway Corridor Study
Lone Tree	• I-25/Lincoln Ave. Traffic and Mobility Improvements (carryover from FY 2020-2021 UPWP)
RAQC	• Ozone State Implementation Plan (SIP) Modeling Study (carryover from FY 2020-2021 UPWP)
RTD	• Mobility as a Service: Implementing an Open-Ticketing Platform (carryover from FY 2020-2021 UPWP) • RTD T2 Comprehensive Plan (carryover from FY 2020-2021 UPWP) • Underserved Transit Needs Study

Planning-Related Studies	
Adams County	• SW County Sidewalk Community Prioritization Planning (carryover from FY 2020-2021 UPWP)
Boulder	• Curbside Management Policy and Program (carryover from FY 2020-2021 UPWP)
Castle Rock	• Downtown Alley Master Plan (carryover from FY 2020-2021 UPWP)
Denver	• Mobility Choice Network • Passenger Amenity Program
Edgewater	• Sheridan Corridor Master Plan: Sloan's Lake (carryover from FY 2020-2021 UPWP)
Sheridan	• Safe Stops Through Sheridan
Thornton	• Eastlake Streetscape Conceptual Plan (carryover from FY 2020-2021 UPWP)
West Colfax BID	• Colfax Viaduct Planning Study (carryover from FY 2020-2021 UPWP)

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

SPONSOR	DESCRIPTION
CDOT	• Greenhouse Gas Planning and Reporting • Inland Port Study • Maintain / Update 10-Year Plan • State Freight and Passenger Rail Plan Update • Truck Parking Planning and Outreach

Non-Federally Funded & Local Governments Planning Activities

SPONSOR	DESCRIPTION	ESTIMATED COST
Arapahoe County	• Fiber Optic Master Plan	$125,000
Bennett	• SH-79 Access Control Plan • Town Transportation Plan	$25,000 $150,000
Boulder County	• Coordinated Human Services Transportation Plan • E County Line Rd/WCR-1 Master Plan • Peak Ride Volunteer Driver Plan • RTD Rail Regional Trail Master Plan • School Travel and Housing Engagement Study • Technology Education Program	$80,000 $250,000 $50,000 $300,000 $50,000 $50,000
Castle Rock	• SH-86 Corridor Study: Franktown to US-85 (carryover from FY 2020-2021 UPWP)	$1,000,000
Commerce City	• Comprehensive Plan Update • Economic Development Strategic Plan Update • Parks, Recreation, Golf Master Plan Update • Transportation Master Plan Update	$300,000 $67,000 $150,000 $200,000
Denver	• Colfax BRT NEPA (carryover from FY 2020-2021 UPWP) • Denver Strategic Transportation Plan/Denver Moves Everyone (carryover from FY 2020-2021 UPWP) • Downtown Denver Moves: Transit Phase 2 (carryover from FY 2020-2021 UPWP) • Far Northeast Next Steps Study • Federal Boulevard Alternatives Analysis (carryover from FY 2020-2021 UPWP) • Montbello Transit Service Study • Speed and Reliability Network Study • TDM Plan • West Area Plan (carryover from FY 2020-2021 UPWP)	$4,550,000 $4,000,000 $312,000 $250,000 $316,000 $62,000 $350,000 $250,000 $370,000
Englewood	• Transportation Master Plan	$180,000
Jefferson County Open Space	• Accessibility Audit and Transition Plan	$200,000
Lafayette	• Multimodal Transportation Plan (carryover from FY 2020-2021 UPWP)	$250,000
Louisville	• Comprehensive Plan Update	$250,000
Thornton	• Parks and Open Space Plan	No Cost Estimate

APPENDIX A

PROGRAM FINANCING TABLES

Table 1. FY 2022 and FY 2023 UPWP Revenue Sources

Funding Source	Recipient	Federal Funding	DRCOG Cash Match	RTD In-Kind Match	Total
FY 2022 CPG*	DRCOG	$3,934,875	$204,491	$613,473	$4,752,839
FY 2023 CPG	DRCOG	$5,176,724	$269,028	$807,085	$6,252,837
FY 2020/FY 2021 Carryover	DRCOG	$6,457,620	$335,595	$1,006,785	$7,800,000
Total Available Funding		**$15,569,219**	**$809,114**	**$2,427,343**	**$18,805,676**

*$1,500,000 in federal funds are being held back at CDOT for DRCOG's FY2022 contribution towards the Statewide Travel Survey.

(Total contribution is $2 million, $500,000 in FY2021 and $1,500,000 in FY2022)

Table 2. FY 2022 and FY 2023 Anticipated UPWP Expenditures

FY 2022/2023 UPWP Objectives and Activities		Total FY 2020	FY 2022 DRCOG Cash Match	FY 2022 RTD In-Kind Match	FY 2022 CPG (federal)	Total FY 2021	FY 2023 DRCOG Cash Match	FY 2023 RTD In-Kind Match	FY 2023 CPG (federal)	Total Anticipated Expenditures
Objective	1.0 Program Administration	$ 893,404	$ 38,439	$ 115,316	$ 739,649	$ 925,004	$ 39,798	$ 119,395	$ 765,811	$ 1,818,408
Activity	1.1 Direct Program Management	$ 456,536	$ 19,642	$ 58,927	$ 377,966	$ 473,638	$ 20,378	$ 61,135	$ 392,125	$ 930,173
Actvity	1.2 DRCOG Staff Training and Development	$ 264,251	$ 11,369	$ 34,108	$ 218,773	$ 271,366	$ 11,676	$ 35,027	$ 224,664	$ 535,617
Activity	1.3 Unified Planning Work Program	$ 105,437	$ 4,536	$ 13,609	$ 87,291	$ 109,815	$ 4,725	$ 14,174	$ 90,916	$ 215,252
Activity	1.4 MPO Compliance	$ 67,181	$ 2,890	$ 8,671	$ 55,619	$ 70,186	$ 3,020	$ 9,059	$ 58,107	$ 137,367
Objective	2.0 Planning Coordination and Outreach	$ 906,759	$ 39,013	$ 117,040	$ 750,705	$ 945,321	$ 40,672	$ 122,017	$ 782,631	$ 1,852,080
Activity	2.1 DRCOG Public Engagement and Outreach	$ 348,182	$ 14,981	$ 44,942	$ 288,260	$ 362,268	$ 15,587	$ 46,760	$ 299,922	$ 710,451
Activity	2.2 Local Government and Stakeholder Education, Outreach and Support	$ 312,972	$ 13,466	$ 40,397	$ 259,110	$ 326,929	$ 14,066	$ 42,198	$ 270,665	$ 639,901
Activity	2.3 Regional Planningn Coordination	$ 245,604	$ 10,567	$ 31,701	$ 203,336	$ 256,124	$ 11,020	$ 33,059	$ 212,045	$ 501,728
Objective	3.0 Long Range Planning	$ 2,147,644	$ 92,402	$ 277,207	$ 1,778,034	$ 2,468,103	$ 106,190	$ 318,570	$ 2,043,343	$ 4,615,747
Activity	3.1 Metro Vision Plan-Collaboration and Implementation Assistance	$ 531,456	$ 22,866	$ 68,598	$ 439,992	$ 549,290	$ 23,633	$ 70,900	$ 454,757	$ 1,080,746
Activity	3.2 Metro Vision Plan-Research and Performance Management	$ 140,036	$ 6,025	$ 18,075	$ 115,936	$ 146,301	$ 6,295	$ 18,884	$ 121,123	$ 286,338
Activity	3.3 Metro Vision Regional Transportation Plan	$ 356,885	$ 15,355	$ 46,065	$ 295,465	$ 372,627	$ 16,032	$ 48,097	$ 308,498	$ 729,512
Activity	3.4 Federal Performance Measure Reporting	$ 79,767	$ 3,432	$ 10,296	$ 66,039	$ 83,336	$ 3,586	$ 10,757	$ 68,994	$ 163,103
Activity	3.5 Air Quality and Conformity	$ 121,420	$ 5,224	$ 15,672	$ 100,524	$ 126,852	$ 5,458	$ 16,373	$ 105,021	$ 248,272
Activity	3.6 Active Transportation and TDM Planning	$ 267,297	$ 11,500	$ 34,501	$ 221,295	$ 275,752	$ 11,864	$ 35,593	$ 228,295	$ 543,049
Activity	3.7 Regional Freight Planning	$ 27,520	$ 1,184	$ 3,552	$ 22,784	$ 28,752	$ 1,237	$ 3,711	$ 23,804	$ 56,272
Activity	3.8 Corridor Planning	$ 428,816	$ 18,450	$ 55,349	$ 355,017	$ 690,235	$ 29,697	$ 89,092	$ 571,445	$ 1,119,051
Activity	3.9 Community Based Transportation Plans	$ 194,446	$ 8,366	$ 25,098	$ 160,982	$ 194,958	$ 8,388	$ 25,164	$ 161,406	$ 389,405
Objective	4.0 Project Programming	$ 414,724	$ 17,843	$ 53,530	$ 343,350	$ 441,404	$ 18,991	$ 56,974	$ 365,438	$ 856,128
Activity	4.1 Prepare Transportation Improvement Program	$ 109,009	$ 4,690	$ 14,070	$ 90,248	$ 114,070	$ 4,908	$ 14,724	$ 94,438	$ 223,078
Activity	4.2 Transportation Improvement Program Set-Asides	$ 139,739	$ 6,012	$ 18,037	$ 115,690	$ 145,991	$ 6,281	$ 18,844	$ 120,866	$ 285,729
Activity	4.3 Transportation Improvement Program Management	$ 165,976	$ 7,141	$ 21,423	$ 137,412	$ 181,344	$ 7,802	$ 23,407	$ 150,134	$ 347,320
Objective	5.0 Transportation Operations	$ 676,668	$ 29,114	$ 87,341	$ 560,214	$ 694,788	$ 29,893	$ 89,680	$ 575,215	$ 1,371,457
Activity	5.1 DRCOG Congestion Management Process	$ 157,134	$ 6,761	$ 20,282	$ 130,091	$ 164,090	$ 7,060	$ 21,180	$ 135,850	$ 321,224
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	$ 343,989	$ 14,800	$ 44,400	$ 284,788	$ 347,299	$ 14,943	$ 44,828	$ 287,529	$ 691,288
Activity	5.5 Innovative Mobility Planning	$ 77,267	$ 3,324	$ 9,973	$ 63,969	$ 80,723	$ 3,473	$ 10,419	$ 66,831	$ 157,990
Objective	6.0 Public Transportation Planning	$ 613,442	$ 26,393	$ 79,180	$ 507,869	$ 618,518	$ 26,612	$ 79,835	$ 512,071	$ 1,231,960
Activity	6.1 Regional Transit/Human Service Transportation Planning and Coordinatio	$ 54,378	$ 2,340	$ 7,019	$ 45,020	$ 56,811	$ 2,444	$ 7,333	$ 47,034	$ 111,189
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	$ 516,476	$ 22,221	$ 66,664	$ 427,591	$ 517,213	$ 22,253	$ 66,759	$ 428,201	$ 1,033,689
Activity	6.7 FasTracks Program Management and Planning Assistance	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Objective	7.0 Support Systems for Planning	$ 1,696,173	$ 72,978	$ 218,934	$ 1,404,262	$ 1,755,047	$ 75,511	$ 226,533	$ 1,453,004	$ 3,451,220
Activity	7.1 Develop and Maintain Information Systems	$ 581,029	$ 24,999	$ 74,996	$ 481,034	$ 601,375	$ 25,874	$ 77,622	$ 497,878	$ 1,182,404
Activity	7.2 Land Use Modeling and Forecasting	$ 400,520	$ 17,232	$ 51,697	$ 331,590	$ 411,179	$ 17,691	$ 53,073	$ 340,415	$ 811,699
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	$ 87,285	$ 3,755	$ 11,266	$ 72,263	$ 90,935	$ 3,912	$ 11,737	$ 75,285	$ 178,220
Activity	7.5 Regional Mobility Platform	$ 109,472	$ 4,710	$ 14,130	$ 90,632	$ 112,132	$ 4,824	$ 14,473	$ 92,834	$ 221,604
FY 2022/2023 Anticipated Expenditures		$ 7,348,814	$ 316,183	$ 948,548	$ 6,084,083	$ 7,848,186	$ 337,668	$ 1,013,005	$ 6,497,514	$ 15,197,000

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

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

Anticipated Unused FY 22/23 Contract Funds (Carryover to FY 24/25) $ 3,608,676

TOTAL Funding Available $ 18,805,676

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DENVER REGIONAL COUNCIL OF GOVERNMENTS

2022-2023 Unified Planning Work Program
Denver Regional Council of Governments
1001 17th St., Suite 700
Denver, CO 80202

drcog.org
303-455-1000

FY 2022-2023 UNIFIED PLANNING WORK PROGRAM (UPWP)

Josh Schwenk, Assistant Planner

1

WHAT IS THE 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)

- Prepared biennially to demonstrate how Federal Highway Administration (FHWA) and Federal Transit Administration (FTA) urban transportation planning funds are spent in the region

- Management tool for scheduling, budgeting and monitoring the planning activities of DRCOG and partner agencies

CONTEXT OF UPWP DEVELOPMENT

- Federally-directed activities and tasks

  - Regional Transportation Plan

  - Transportation Improvement Program

  - Congestion Management Process

  - Air quality conformity modeling

- Federal transportation planning factors

- Metro Vision

- Metro Vision Regional Transportation Plan

3

OVERVIEW OF THE 2022-2023 UPWP

2020-2021 ACCOMPLISHMENTS

- Conducted three iterations of Citizens' Academy

- Adopted 2050 Metro Vision Regional Transportation Plan

- Adopted Taking Action on Regional Vision Zero

- Completed Regional Complete Streets Typologies

- Adopted FY 2022-2025 Transportation Improvement Program (TIP) and began discussions of 2024-2027 TIP

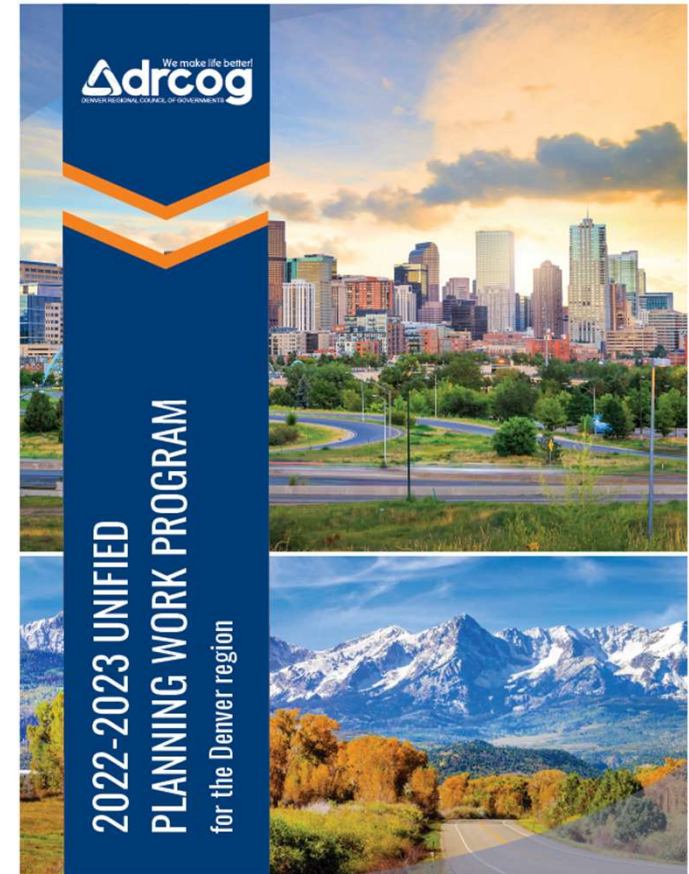- Completed 2018 Regional Planimetric Project, 2020 Denver Regional Aerial Photography Project

2022-2023 UPWP DOCUMENT STRUCTURE

Objective

Activity

Tasks & Deliverables

2022-2023 UPWP DOCUMENT STRUCTURE

- Objective 1.0 – **Program Administration and Coordination** - Administer the core Metropolitan Planning Organization (MPO) transportation planning program

- 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

- 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

- Objective 4.0 – **Project Programming** - Identify and implement priorities within the metropolitan area by effectively developing and managing the Transportation Improvement Program

- 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

- Objective 6.0 – **Public Transportation Planning** - Plan and operate rapid transit corridors, the regional bus network, and transit facilities

- 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

2022-2023 UPWP HIGHLIGHTS

- Develop the Policy, hold Regional and Subregional calls for projects, and prepare the **FY 2024-2027 Transportation Improvement Program**

- Define projects and strategies to implement **2050 Metro Vision Regional Transportation Plan** program and project priorities

- Updates and implementation activities related to several of DRCOG's key planning documents:

    - **Taking Action on Regional Vision Zero**

    - **Denver Regional Active Transportation Plan**

    - **Mobility Choice Blueprint**

- Lead/coordinate **corridor plans** for priority regional multimodal corridors

- Lead/coordinate **community-based transportation plans** to improve mobility options for low-income and disadvantaged populations

- 2020 Denver Regional **Planimetric** Project, 2020 Regional **Land Cover** Project, and 2022 Denver Regional **Aerial Photography** Project

THANK YOU!

QUESTIONS?

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

ATTACH D

ATTACHMENT D

To: Chair and Members of the Transportation Advisory Committee

From: Emily Lindsey, Transportation Technology Strategist, Transportation
                Planning & Operations 303-480-5628 or elindsey@drcog.org

Meeting Date	Agenda Category	Agenda Item #
June 28, 2021	Informational Briefing	6

SUBJECT

Shared Micromobility in the Denver Region

PROPOSED ACTION/RECOMMENDATIONS

N/A

ACTION BY OTHERS

N/A

SUMMARY

DRCOG, state, regional and local partners have been collaborating on micromobility in
the Denver region for several years. Through coordination and discussion at DRCOG's
Micromobility Work Group meetings, staff developed considerations for implementing
and maintaining regional consistency of shared micromobility programs. These are
documented by policy area in the Shared Micromobility in the Denver Region report.[1]

As part of a regional approach to shared micromobility, DRCOG and several partners in
the region launched a shared micromobility data collaborative, where partner agencies
can view, analyze and monitor shared micromobility data from programs in the region
using Ride Report. At the June TAC meeting, the committee will be briefed on shared
micromobility in the Denver region and on the shared micromobility data collaborative
project.

PREVIOUS DISCUSSIONS/ACTIONS

N/A

PROPOSED MOTION

N/A

ATTACHMENTS

1. Staff Presentation

ADDITIONAL INFORMATION

If you need additional information, please contact Emily Lindsey, Transportation
Technology Strategist, Transportation Planning & Operations, at 303-480-5628 or
elindsey@drcog.org.

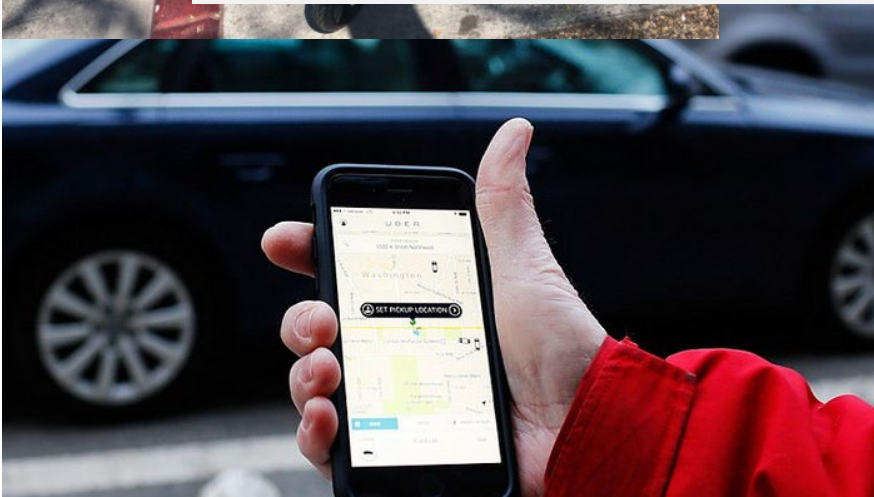[1] https://drcog.org/sites/default/files/resources/MICROMOBILITY_DEC_2020.pdf

small, human- and electric-powered transportation solutions like bikes and scooters
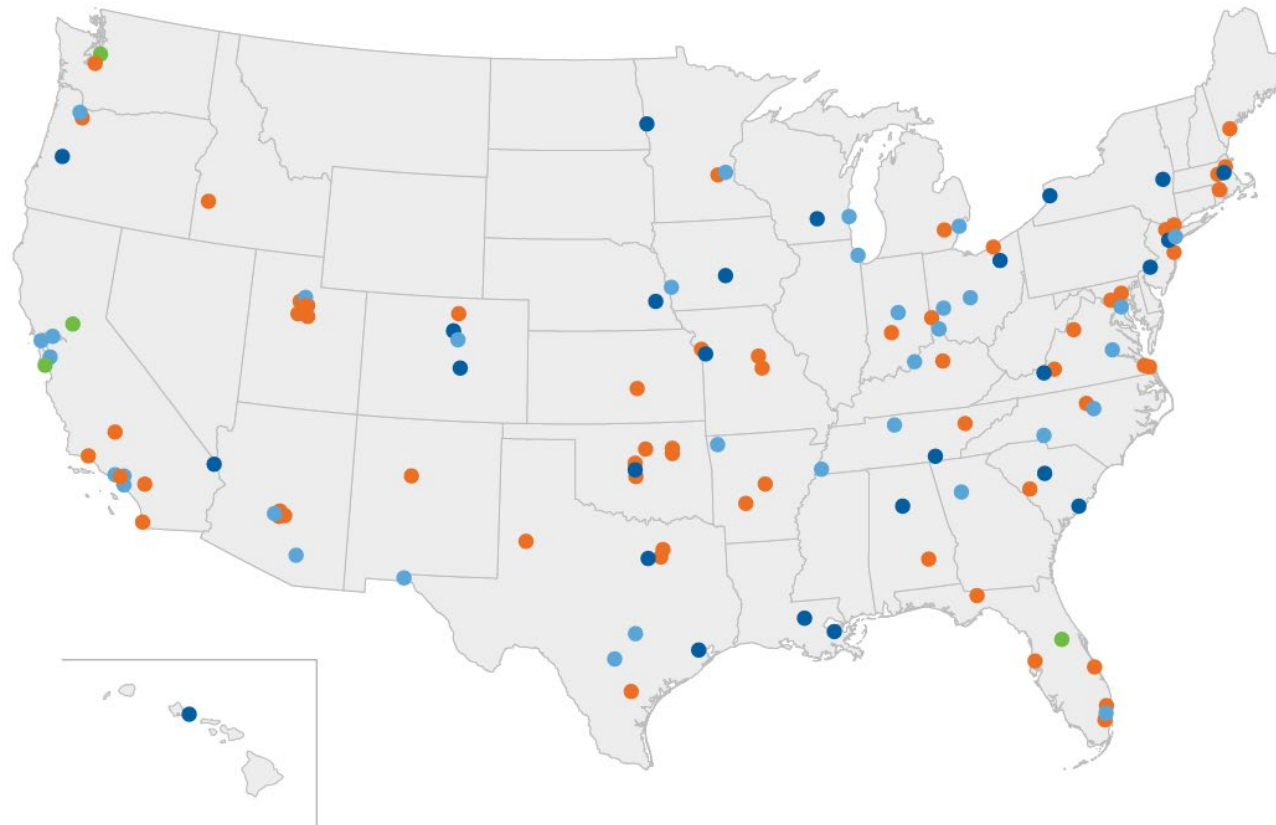
SHARED MICROMOBILITY IN THE US

SHARED MICROMOBILITY ACROSS THE US

As of 12/31/2019. Source: NACTO

- Station-based systems only
- Both dockless & station-based systems
- Dockless scooters and/or bikes only
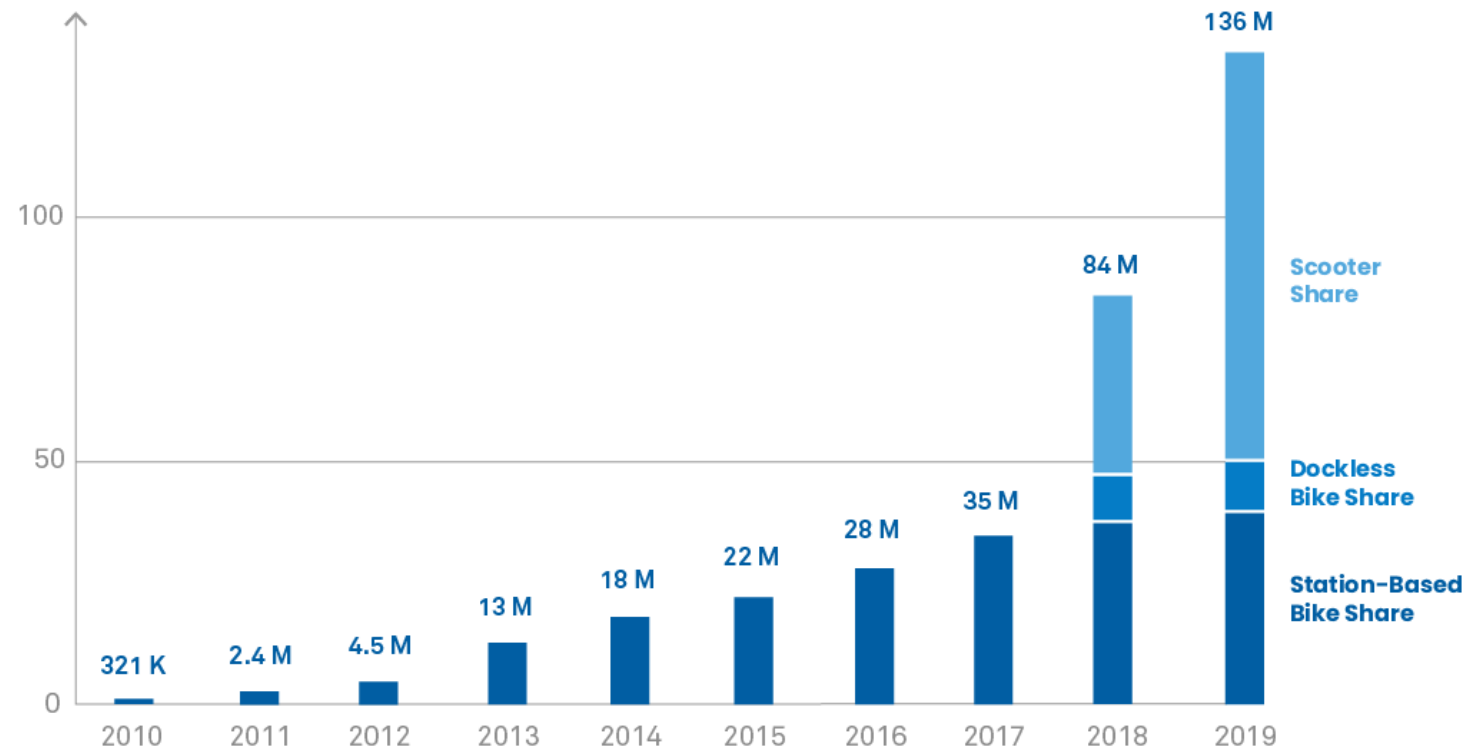- Dockless bikes only
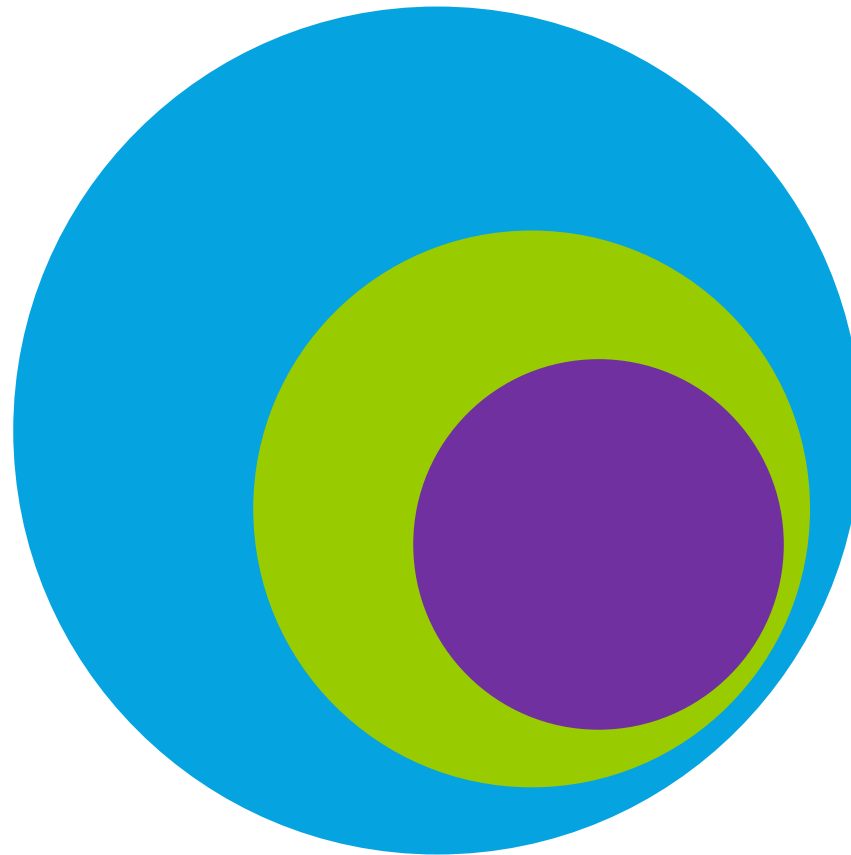
3

TRIP GROWTH NATIONWIDE

SHARED MICROMOBILITY RIDERSHIP GROWTH FROM 2010–2019,
IN MILLIONS OF TRIPS

Source: NACTO

CONNECTIONS TO METRO VISION OUTCOMES AND CIVIC GOALS

Micromobility services potentially offer support to achievement of local and regional targets such as:

- Access to jobs and services
- Air quality improvements
- Congestion reduction
- Mode shift
- Vehicle miles traveled reduction

Rapid pace of innovation requires a flexible and coordinated approach.

MICROMOBILITY WORK GROUP

In March 2019, DRCOG staff convened a **regional Micromobility Work Group**, made up of staff from local agencies, CDOT, RTD and federal partners.

For a year, the group met **monthly**, now the group meets **quarterly**.

MPO DISCUSSIONS

- Metro – Portland, OR

- Puget Sound Regional Council (PSRC) – Seattle, WA

- Southern California Association of Governments (SCAG) – Los Angeles, CA

- Chicago Metropolitan Agency for Planning (CMAP) – Chicago, IL

- San Diego Association of Governments (SANDAG) – San Diego, CA

In addition to staff-level MPO discussions, DRCOG and Metro (Portland, OR) hosted a web-based **peer exchange for local government entities**.

WORK GROUP POLICY AREAS FOR DISCUSSION

Each policy discussion included **national practices** and **sub-areas** listed below. Group started with discussion on "Getting Started" to help outline the steps prior to policy area discussion.

1. General Provisions
- Mechanisms
- Total Permits/Operators
- Fee Structure
- Dedication of Revenue

2. Operations
- Fleet Size
- Fleet Makeup
- Geographic Distribution
- Enforcement

3. Equipment & Safety
- Helmet Requirement
- User Requirement

4. Parking & Street Design
- Parking Requirements
- Parking Infrastructure
- Operational Domain

5. Equity
- Equitable Distribution
- Non-digital/Credit-free Access
- Adaptive Equipment

6. Communications & Community Engagement
- Education Efforts
- Community Engagement

7. Data
- Data Ownership
- Methods of Data Collection
- Data Verification
- Potential Data to Collect

8. Evaluation Metrics
- Crashes
- User Compliance
- Comfort of Routes/ Availability of Low Stress Routes
- Speed
- Accessibility
- Trip Purpose

SHARED MICROMOBILITY IN THE DENVER REGION
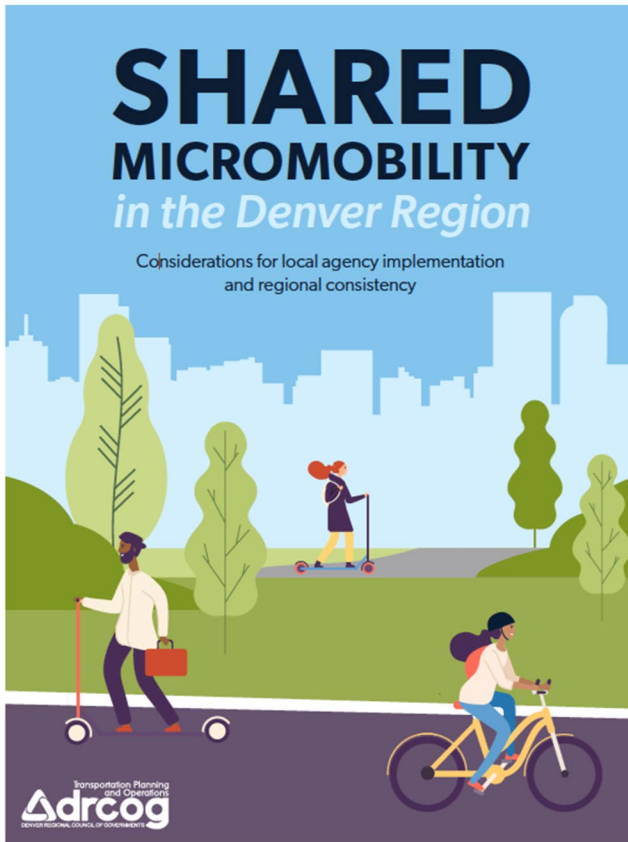
- Shared Micromobility Intro
- Regional Micromobility Work Group
- Shared Micromobility in the Denver Region
- Pilot Programs
- Regulatory Environment
- Areas for Collaboration
  - Coordination
  - Data and Privacy
  - Operations
  - Equipment and Safety
  - Equity
  - Communications and Community Engagement

Consistent, regional approach is a priority

➤ Working alongside local and regional partners, DRCOG evaluated several options for a **shared platform pilot** and selected **Ride Report**. DRCOG hosted kickoff with partner agencies in February 2020.

➤ Features include: **dashboard**, **maps**, **routes**, **charts** and **operator-facing dash**. Custom geographies can be uploaded for monitoring and evaluating programs. *Demo is available for those interested.*

➤ Currently, City and County of Denver and City of Aurora are participating alongside DRCOG, CDOT and RTD. Adding new partners as programs come online.

USE CASES

- Developed with Micromobility Work Group

- Examples include: day-to-day program management, parking/corral locations, trip metrics, goal/outcome success

SINGLE SOURCE OF TRUTH

- Impacts across jurisdictions and ROW owners
- Consistent calculations for key metrics
- Operator dashboards
- Shared regional metrics
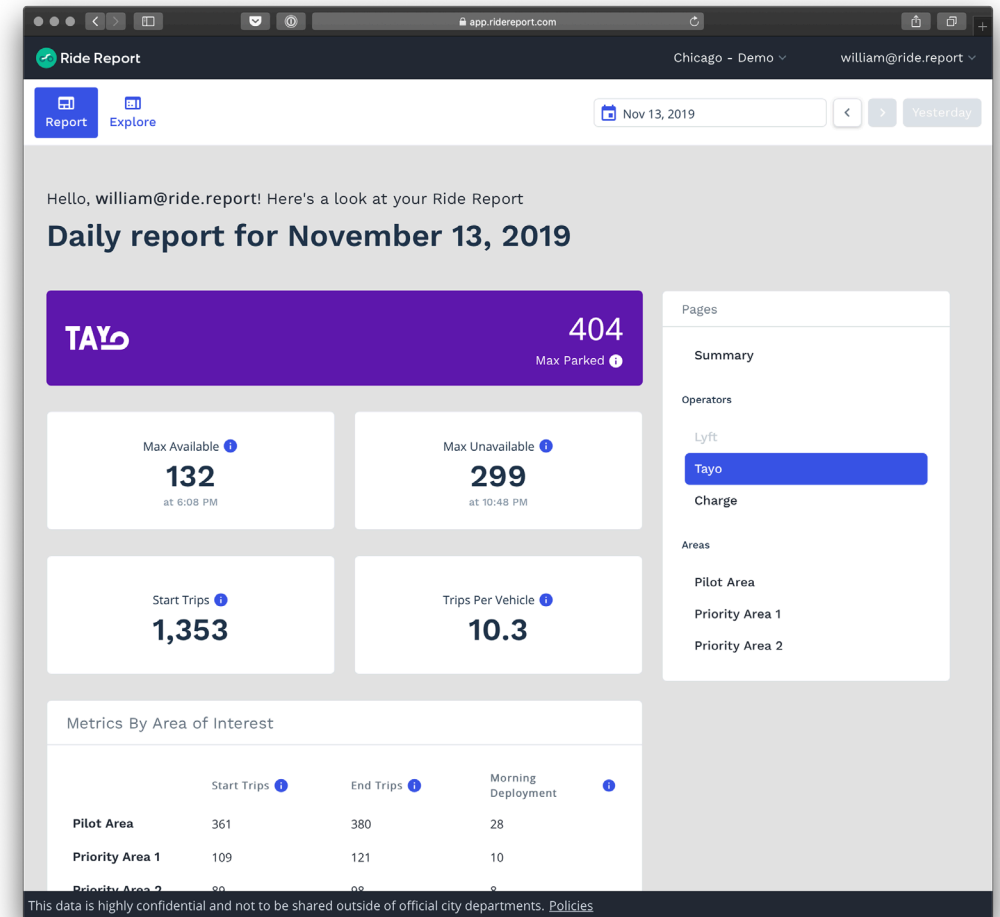
DATA APPROACH

- Uses Mobility Data Specification (MDS) data
- Ongoing monitoring
- Privacy protocols
- Risk mitigation
- Already limited staff time; adds easy-to-use tools
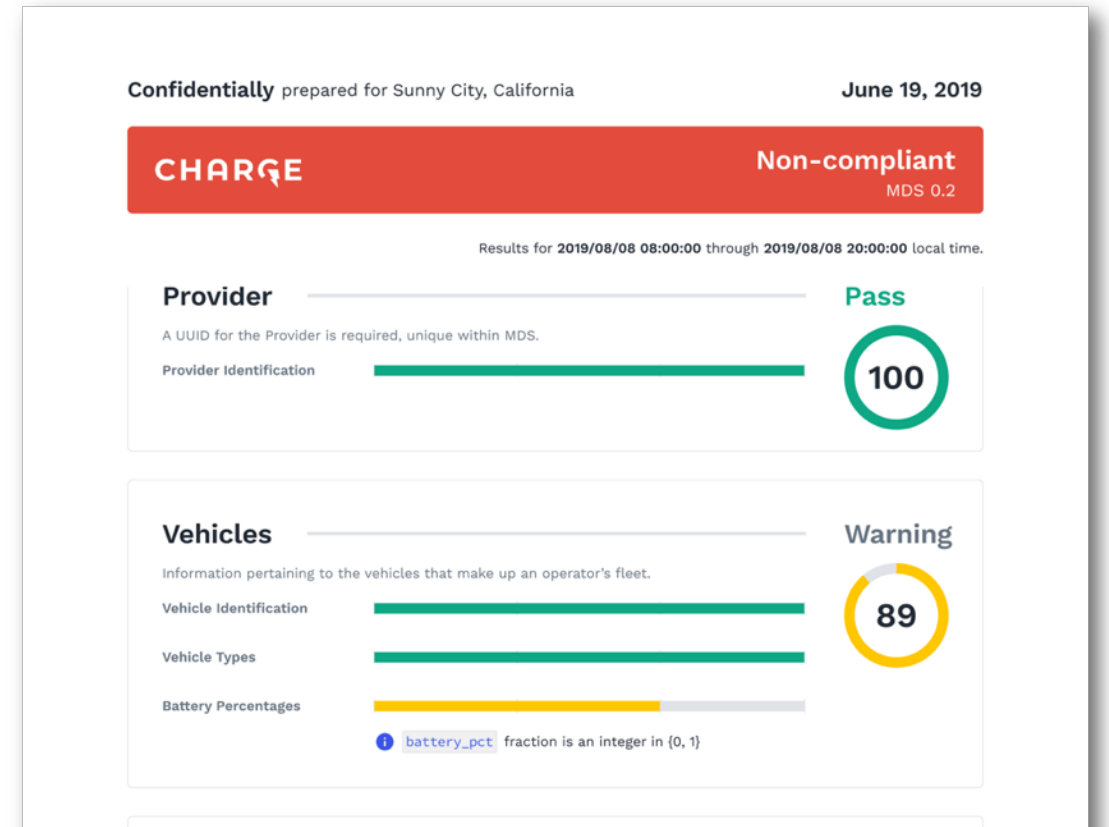
SHARED MICROMOBILITY DATA PLATFORM – JOIN US!

In addition to CDOT and RTD, DRCOG is also working with Denver, Aurora and Boulder.

Is your community considering implementing a shared micromobility program?

Reach out for a demo, policy assistance and to learn more.

Emily Lindsey, AICP

Transportation Technology Strategist

Transportation Planning and Operations Division

elindsey@drcog.org

ATTACHMENT E

To: Chair and Members of the Transportation Advisory Committee

From: Robert Spotts, Manager, Mobility Analytics Program
            303-480-5626 or rspotts@drcog.org

Meeting Date	Agenda Category	Agenda Item #
June 28, 2021	Informational Briefing	7

SUBJECT
Potential Revisions to Metro Vision Performance Measures and Targets.

PROPOSED ACTION/RECOMMENDATIONS
N/A

ACTION BY OTHERS
N/A

SUMMARY
In May, the TAC provided input on potential modifications and additions to Metro Vision's transportation-related performance measures to align with the adopted 2050 MVRTP as well as other DRCOG and regional planning efforts. The topic was also reviewed by the DRCOG Board at its June 16, 2021 meeting. Based on this feedback, DRCOG staff is providing recommendations for the TAC to review which will ultimately be incorporated into amendments to the Metro Vision Plan later this year. The proposed modifications are summarized below:

Remove person hours of delay (PHD) measure
Staff is recommending removing the Person Hours of Delay per Capita measure. The PHD measure generalizes and averages across millions of people, and possibly conflicts with other Metro Vision targets (such as non-SOV mode share to work). Severe congestion impacts for some populations may be diluted through the PHD measure, making it difficult to understand the real impact.

Rebrand and expand Travel Time Variation (TTV) Measure
Staff recommends "rebranding" TTV to make the term and values more relatable and understandable. Instead of Travel Time Variation measured with a ratio (i.e 1.22), staff recommends a name change to "Extra Travel Time During Rush Hour" with a percentage change (i.e. +22%).

Staff also recommends adding a complementary measure that tracks mid-afternoon congestion titled "Extra Travel Time During Mid-Afternoon". This measure repeats an understandable, meaningful concept and assesses the duration of congestion in a "typical," non-rush hour period. Off-peak congestion has a large impact on freight and other economic activity, the ability to flex work hours to avoid congestion, and may require different mitigation strategies than peak-period congestion.

Traffic fatalities
As part of adoption of *Taking Action on Regional Vision Zero*, DRCOG committed to a target of zero fatalities and serious injuries. Based on consultation with the DRCOG Board, staff is proposing to amend the existing Metro Vision measure and target:
- Existing measure and target: Less than 100 fatalities annually by 2040
- Proposed measures and targets: Zero fatalities by 2040; Zero serious injuries by 2045

New measure: Active Transportation Corridor Mileage Completion
Staff proposes to track progress towards completion of the regional active transportation corridors, as defined by the Active Transportation Plan. The measure is achievable, action-based and influenceable with transportation funding.

New measure: High Comfort Share of Active Transportation Facilities
Staff proposes to track the quality of facilities – which is important for tracking usability of facilities. It considers that not all facilities are created equal and emphasizes making facilities accessible to a broader spectrum of users.

The staff presentation contains additional information about proposed measure/target concepts for discussion. DRCOG is seeking agreement on the modifications and will finalize proposed targets and language for the modifications in a future meeting.

PREVIOUS DISCUSSIONS/ACTIONS

May 24, 2021 - TAC discussion of Metro Vision Performance Measures and Targets

PROPOSED MOTION

N/A

ATTACHMENTS

1. Staff presentation

ADDITIONAL INFORMATION

If you need additional information, please contact Robert Spotts, Manager, Mobility Analytics Program at 303-480-5626 or rspotts@drcog.org.

METRO VISION PLAN AMENDMENTS

TRANSPORTATION ADVISORY COMMITTEE

June 28, 2021

Robert Spotts

1

INTRODUCTION

- **Context**: Staff has been discussing with DRCOG Board potential amendments to Metro Vision Plan outcomes, objectives, measures, targets, & strategic initiatives

- **Rationale**: Update Metro Vision (adopted in 2017) and align to recent DRCOG & regional planning efforts

- **Schedule**: Formal Metro Vision Plan amendment process to occur later in 2021

PROPOSED CHANGES TO MEASURES AND TARGETS

Three Modifications:

- Rebrand TTV title and expand into two distinct measures
  - "Extra Travel Time During Rush Hour"
  - "Extra Travel Time During Mid-Afternoon"
- Remove Person Hours of Delay per Capita
- Modified target for traffic fatalities and serious injuries

- **Two New Measures/Targets:**
  - Active Transportation Corridor Mileage Completion
  - High Comfort Share of Facilities

NEXT METRO VISION AMENDMENT CYCLE...

One Modification:

- Surface transportation-related greenhouse gas emissions per capita
  - Wait to incorporate MPO-specific policies and rules designed to reduce greenhouse gas pollution from the transportation sector

One New Measure/Target:

- Transit service quality
  - Focus on transit quality/usefulness
  - Wait to incorporate Reimagine RTD study findings

REBRAND TTV LANGUAGE

Current Measure:

Regional Measure	Baseline	2040 Target
Average travel time variation (TTV) (peak vs. off-peak)	1.22 (2014)	Less than 1.30

Staff proposal:

Regional Measure	Baseline	2040 Target
Extra Travel Time During Rush Hour	+22% (2014)	Less than +30%

PREVIOUS OPTIONS TO REPLACE DAILY PERSON DELAY PER CAPITA

Metric	Measure	2020 Estimate*	Forecasted 2040**
Off Peak Travel in Severe Congestion	How much mid-day off peak travel occurs in severe congestion (in PMT).	15%	32%
Network with Extended Congestion	How much of the network has extended congestion (in miles).	15%	27%
Travel in Extended Congestion	How much of the PMT in the region occurs on roadways with extended congestion.	28%	48%
Network with Bad Mobility Grade	Percent of Lane Miles of the Regional Roadways System with a DRCOG Mobility Grade of D or F	19%	33%

REPLACE DAILY PERSON DELAY PER CAPITA

Current Measure:

Measure	Baseline	2040 Target
Daily person delay per capita	6 minutes (2017)	Less than 9 minutes

Staff proposal:

- Eliminate PHD Measure
  - Difficult to understand/conceptualize
- Create a complimentary measure "Extra Travel Time During Mid-Afternoon"
  - Repeats understandable, meaningful concept
  - Measures mid-afternoon congestion where different strategies to reduce VMT/congestion may be more impactful
  - Measures "peak spreading" and duration of congestion

RECOMMENDED REVISED CONGESTION MEASURES

Measure	Description	Baseline (2019)	2040 Base (To be updated to 2050)
Extra Travel Time During Rush Hour	Average additional congestion-related travel time people in vehicles experience from 5-6pm.	+25%	+41%
Extra Travel Time During Mid-Afternoon	Average additional congestion-related travel time people in vehicles experience from 2-3pm.	+12%	+21%

NEW TARGET: TRAFFIC FATALITIES

In Metro Vision (as of May 2019)		
Measure	**Baseline**	**2040 Target**
Number of traffic fatalities	185 (2014)	Fewer than 100 annually

Staff proposal (previous Board direction):

- Zero fatalities by **2040**

- Zero serious injuries by **2045**

NEW MEASURES: ACTIVE TRANSPORTATION

Staff proposals:

- New measure/target to focus on **active transportation implementation**

Insight from June 16 Board:
- opportunity to **use both** measures?
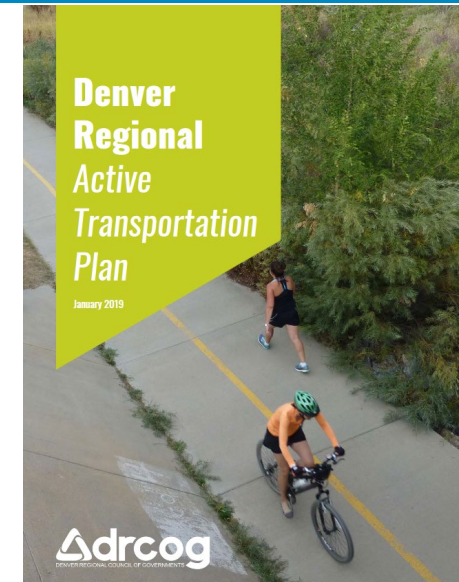
Measure	Description
Active Transportation Corridor Mileage Completion	Share (%) of the active transportation corridor mileage completed
High Comfort Share of Facilities (Separated bike lanes, off-street, and bicycle boulevards)	Share (%) of the network that is high comfort facilities

Denver Regional Active Transportation Plan

January 2019

drcog
DENVER REGIONAL COUNCIL OF GOVERNMENTS

DISCUSSION

- DRCOG is seeking agreement on the modifications and will finalize proposed targets and language for the modifications in a future meeting.

Three Modifications:

- Rebrand TTV title and expand into two distinct measures
  - "Extra Travel Time During Rush Hour"
  - "Extra Travel Time During Mid-Afternoon"
- Remove Person Hours of Delay per Capita
- Modified target for traffic fatalities and serious injuries

- **Two New Measures/Targets:**

  - Active Transportation Corridor Mileage Completion
  - High Comfort Share of Facilities

THANK YOU!

QUESTIONS?

ATTACH F

To: Chair and Members of the Transportation Advisory Committee

From: Todd Cottrell, Senior Transportation Planner
         303-480-6737 or tcottrell@drcog.org

Meeting Date	Agenda Category	Agenda Item #
June 28, 2021	Informational Briefing	8

SUBJECT
FY 2024-2027 TIP Policy Elements: Project Scoring and Project Readiness.

PROPOSED ACTION/RECOMMENDATIONS
N/A

ACTION BY OTHERS
N/A

SUMMARY
Staff presents two topics for TAC input: potential adjustments to the project scoring methods and how to incorporate project readiness into the FY 2024-2027 TIP process.

Project Scoring
DRCOG has identified two main elements to the question of how project applications are scored:
    1) the roles of DRCOG staff and the subregional forums, and
    2) the scoring methods used.

The following section will review the existing processes and offer DRCOG staff recommendations for possible adjustments.

Regional Share Scoring Roles and Process: The Regional Share scoring roles were discussed at the May TAC meeting and are included within the Regional Share discussion. Regional share applications are submitted directly from the applicants to DRCOG staff, where each eligible application is evaluated and scored by approximately a dozen DRCOG staff. These scores are then averaged.

A project review panel that includes representation from each subregional forum considers the technical scores and other factors to prioritize the eligible applications and develop a funding recommendation to the MPO committees and DRCOG Board.

Staff recommendation: No changes in this scoring process.

Subregional Share Scoring Roles and Process: The Subregional Share scoring and project recommendation process is coordinated by the forums. Each applicant submits their application(s) to their individual forum(s). Forum members then score, discuss, prioritize, and recommend projects to the MPO committees and DRCOG Board.

Forums also have the option to allow DRCOG staff to score their projects instead. In addition, each forum can include additional questions in their application that applicants must answer in addition to all questions from the Subregional Share application. The

responses to these questions also assist the forum in scoring, prioritizing, and recommending projects.

Staff recommendation:
1) *Subregional forum members should not be allowed to score their agency's submitted projects. The slightly reduced number of scorers per application should not affect the overall average score given to each project.*

2) *Individual subregional forum scores will be anonymized and submitted to DRCOG staff for review and quality control. DRCOG staff will review and give focus to outlier scores that are "highly unique" in comparison to the other scores received. Scores will not be adjusted by DRCOG.*

Scoring Method:
Part Two of the Regional and Subregional Share applications have four weighted sub-sections. Project scorers apply a "high, medium, or low" score to each question based on the answer in relation to predetermined definitions of what constitutes a high, medium, or low score in each sub-section. In addition, the scorers are asked to score projects in relation to the other applications scored.

On the spreadsheet that records the scores, the high-medium-low score is translated to a "3, 2, or 1", with 3 equaling high, and 1 being low. Once all the scoring for a project is completed and the weighting is applied, a final score between 3 and 1 is produced. In the FY20220-2023 TIP cycle, the average score for funded projects ranged from 1.9 to 2.5, indicating 0.6 points was the average separation between the highest and lowest funded project.

Staff Recommendation:
1) *Eliminate reference to "High, Medium, or Low".*
2) *Apply a score range from 5 to 1 (5=high, 1=low).*

Part 2: Incorporating Project Readiness into the TIP Application Process
Project readiness, or the ability of a project to proceed through development and implementation, is important to DRCOG and its planning partners. TIP projects that are delayed or worse, cancelled, "hold" federal funds and prevent other important projects from moving forward.

DRCOG offers the following recommendations and topics for discussion on how to incorporate project readiness into the application process:

1. Application cost estimates and inflation rate (staff recommendation)
   Each applicant will use a standardized CDOT-supplied inflation rate and submit a CDOT-supplied cost estimate form with each application. Using a consistent inflation rate and cost estimate method should assist in keeping all project cost estimates similar and to the standards that CDOT would use for their own projects.

2. <u>Review and update Part 1 of the TIP application</u> (staff recommendation)
   Part 1 of the application asks for project information pertaining to project readiness, including listing project elements and the status of the proposed projects. Adjustments can be made to this section to further identify a projects' readiness.

3. <u>Add a new "project readiness" scoring section in Part 2 of the application</u> (staff recommendation, with specific application text to be determined based on TAC input)
   Add a new scoring section in Part 2 of the application for project readiness, with an overall weighting that is perhaps 5-10% (subject of future discussions). Project readiness considerations may include:
   - previous preconstruction elements funded through DRCOG,
   - application is for a single phase (i.e., design only, construction only, etc.),
   - amount or type of anticipated right of way impacts (construction easements, partial or full acquisitions, vacant land, structures, etc.),
   - IGA process can be completed with just an option letter,
   - Status of project within an approved Capital Improvement Program (CIP),
   - project manager federal-aid project experience,
   - status of non-federal match,
   - status of or impacts to utilities, railroad, ROW, historic resources, etc.
   - level of public support for the project, and
   - level of internal or external project review for potential "pitfalls".

PREVIOUS DISCUSSIONS/ACTIONS
April 26, 2021 TAC
May 24, 2021 TAC

PROPOSED MOTION
N/A

ATTACHMENTS
1. Staff Presentation
2. 24-27 TIP Schedule – Updated June 2021

ADDITIONAL INFORMATION
If you need additional information, please contact Todd Cottrell, at 303-480-6737 or tcottrell@drcog.org.

PROJECT SCORING

- Two Elements:

    1. Scoring roles (by DRCOG and forums)

    2. Scoring methods

REGIONAL SHARE SCORING AND PROCESS

- Discussed previously in Regional Share discussions:

  - Applications submitted to DRCOG to score

  - ~Dozen staff score individually, then averaged

  - Average score and other factors then used by project review panel to develop recommendation to committees/Board

- Staff Recommendation: No changes

SUBREGIONAL SHARE SCORING AND PROCESS

- Process coordinated by Forums

  - Applications submitted to forums

  - Forum then scores, discuss, prioritize, and recommend to DRCOG committees and Board

  - Forum has option to ask DRCOG staff to score projects

  - Forum has option to include additional questions

- Staff Recommendation:

  1. Subregional forum members may not score their own projects

  2. After forums score (before discussions), sent to DRCOG staff for quality control checks and review

SCORING METHOD

- Existing Method:

- Scorers apply a "High, Medium, or Low" to each scored question based on response in comparison to:

  1) pre-determined definitions within application, and

  2) in comparison to other application responses to the same question

- Translated to "3-2-1" on scoring sheet

  - FY2020-23 TIP: average funded projects ranged from 1.9 - 2.5

SCORING METHOD

- Staff Recommendation:

  - Eliminate reference to "High, Medium, Low"

  - Use a score range of 1 to 5 (low to high)

- Why?

  - Numerical values are used to calculate score

  - Wider range should allow for further definition between projects (0.6 = everyone except Adams; Adams = 1.6)

DISCUSSION

Any questions or discussion on scoring roles or methods?

PROJECT READINESS

- The status of a project to ensure it is ready for development and implementation

  - Under-developed project applications: project delays, cost overruns, cancellations

  - Funding could have gone to other projects

- Recommendations and topics for discussions...

PROJECT READINESS

➢ Application cost estimates and inflation rates:

❑ Staff Recommendation: standardized CDOT-supplied cost estimate method and inflation rate

- Will assist in keeping all applications consistent and aligned with CDOT/federal aid standards

➢ Part 1 of TIP application:

❑ Staff Recommendation: text updates (key project elements, current status, etc.)

➢ Part 2 of the TIP Application (scoring section)

❑ Staff Recommendation (with TAC input): add new scoring section (5-10% weighting)

- previous preconstruction elements funded through DRCOG,
- application is for a single phase (i.e., design only, construction only, etc.),
- amount or type of anticipated right of way impacts (construction easements, partial or full acquisitions, vacant land, structures, etc.),
- IGA process can be completed with just an option letter,
- Status of project within an approved Capital Improvement Program (CIP),
- project manager federal-aid project experience,
- status of non-federal match,
- status of or impacts to utilities, railroad, ROW, historic resources, etc.
- level of public support for the project, and
- level of internal or external project review for potential "pitfalls".

DISCUSSION

Any questions or discussion on readiness issues?

DISCUSSION

ATTACHMENT C

2024-2027 TIP Schedule (as of June 2021)

TIP Policy Document

	2021 Apr	May	Jun	July	Aug	Sept	Oct	Nov	Dec	2022 Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	2023 Jan	Feb	Mar	Apr
Dual Model Overview				O																					
Regional Share/Panel				O	X																				
Regional/Subregional Funding Split				O	X		X	X																	
Project Scoring (Roles, Method)			▩	▩			X																		
Project Readiness			▩	▩			X																		
Incorporating DRCOG Plans				▩	▩		X																		
Focus Areas				▩	R		X																		
TIP Set-Asides				▩	▩		X																		
Sumitting for Regional/Subregional						▩			X																
Cancelled Projects by Sponsor						▩			X																
Project Delays						▩			X																
Minimum Project Size							▩		X																
Subregional Breakdown Formula							▩		X																
Draft Application							▩		X																
Draft Policy Document								▩	▩	X															

Calls for Projects, Recommendations, and Action

	2021 Apr	May	Jun	July	Aug	Sept	Oct	Nov	Dec	2022 Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	2023 Jan	Feb	Mar	Apr
Regional Share Call for Projects											▨	▨													
R.S. Application Review (staff/panel)												▨	▨	▨											
Regional Rec/Action														▨	X										
Subregional Share Call for Projects																▨	▨								
Subregional Review/Rec. by Forums																	▨	▨							
Subregional Rec/Action																				X					
Staff Prepares Draft TIP																		▨	▨	▨	▨	▨	▨		
Public Hearing Draft TIP Released																							▨		
Draft 2024-2027 TIP - Public Hearing																								X	
2024-2027 TIP Adoption																									X

Legend:

TAC/TAC Work Session	▩ (gray)	Board Work Session	O
Activity	▨ (yellow)	DRCOG Board	X
		Board Retreat	R

ATTACH G

ATTACHMENT G

To: Chair and Members of the Transportation Advisory Committee

From: Ron Papsdorf, Division Director, Transportation Planning & Operations
           303-480-6747 or rpapsdorf@drcog.org

Meeting Date	Agenda Category	Agenda Item #
June 28, 2021	Informational Briefing	9

SUBJECT
2021 RAISE Grant Requests

PROPOSED ACTION/RECOMMENDATIONS
N/A

ACTION BY OTHERS
N/A

SUMMARY
The U.S. Department of Transportation (DOT) has published a Notice of Funding Opportunity (NOFO) to apply for $1 billion in Fiscal Year (FY) 2021 discretionary grant funding through the Rebuilding American Infrastructure with Sustainability and Equity (RAISE) grants. RAISE, formerly known as BUILD and TIGER, has awarded over $8.935 billion in grants to projects in all 50 states, the District of Columbia and Puerto Rico since 2009.

DRCOG staff requested that any project sponsor anticipating applying for a RAISE grant in the Denver region provide information to DRCOG for information and discussion, not approval, at the June 28 meeting.

An information form was distributed to all local governments and partner agencies on June 4 with a request to return information by noon, June 18, 2021. DRCOG received three submittals, two for planning projects and one for a construction project. DRCOG staff intend to not provide letters of support for any project not presented at this meeting or that are not consistent with the 2050 Metro Vision Regional Transportation Plan.

PREVIOUS DISCUSSIONS/ACTIONS
April 26, 2021 – TAC Discussion

PROPOSED MOTION
N/A

ATTACHMENTS
  1. RAISE Grant Information Submittals (link)

ADDITIONAL INFORMATION
If you need additional information, please contact Ron Papsdorf, Division Director, Transportation Planning & Operations, at 303-480-6747 or rpapsdorf@drcog.org.