

# DRCOG End-of-Year UPWP Status Report

## FY 2021 Unified Planning Work Program Activity

October 1, 2020 through September 30, 2021

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### Activity 1.1 Direct Program Management

Activity 1.1 Tasks	Activity 1.1 Status
Supervise DRCOG personnel assigned MPO planning work. Monitor staff work on the UPWP and evaluate progress	<ul style="list-style-type: none"> <li>• Ongoing</li> </ul>
Implement internal strategic management and performance measurement system	<ul style="list-style-type: none"> <li>• Developed draft activity tracking tool</li> <li>• Prepared quarterly performance measures</li> </ul>
Prepare and maintain adequate records of correspondence, purchasing, and contracts	<ul style="list-style-type: none"> <li>• Ongoing</li> </ul>
Routine personnel, office, and administrative activities	<ul style="list-style-type: none"> <li>• Interviewed, hired, and provided onboarding activities for multiple positions (division assistant, assistant planner, senior planner, transportation planner, research assistant, GIS specialist, software developer)</li> <li>• Performance planning/evaluations</li> <li>• Participate in organizational conversations related to improving recruitment ads and outward facing recruitment web pages</li> </ul>

### Activity 1.2 DRCOG Staff Training and Development

Activity 1.2 Tasks	Activity 1.2 Status
Provide training in-house and offsite for DRCOG staff, including a new in-house training module, Go1/Auzmor	<ul style="list-style-type: none"> <li>• Participated in in-house and off-site trainings:               <ul style="list-style-type: none"> <li>○ National Highway Institute ITS Awareness Web-based Training</li> <li>○ Zoom training</li> <li>○ CDOT Local Agency process training</li> <li>○ Workstyles team building exercise (multiple)</li> <li>○ Researched training courses in qualitative research (mobile ethnography, online focus groups, and social media tracking)</li> </ul> </li> </ul>
Attend webinars	<ul style="list-style-type: none"> <li>• Attended webinars related to UPWP tasks and federal metropolitan planning factors, including:               <ul style="list-style-type: none"> <li>○ AMPO Public Involvement Working Group webinars</li> <li>○ Denver Metro Clean Cities webinar: Connected and Autonomous Vehicles Energy and Mobility Improvements</li> <li>○ Life in the Green Lane: Micromobility Innovations from the Sacramento Area Council of Governments webinar</li> <li>○ TRB webinar: How we move matters</li> <li>○ Atlanta Regional Commission webinar: The Demand for the Curb and How We Manage It</li> <li>○ Urbanism Next webinar: How emerging technologies and the</li> </ul> </li> </ul>

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Activity 1.2 Tasks	Activity 1.2 Status
	<p>pandemic are shaping parking demand, supply, and policy</p> <ul style="list-style-type: none"><li>○ What will stick? Assessing COVID's Impacts on Cities</li><li>○ SAE Webinar: Protecting Pedestrians from AVs</li><li>○ TRB Webinar on Gender, Growing and Coping in a Pandemic</li><li>○ Preparing for Transportation's Zero Emissions Future</li><li>○ Where the Sidewalk Ends: Curb Management of Commercial Delivery</li><li>○ Equity in Transportation with Tamika Butler</li><li>○ MPO Socio-economic modeling forums (hosted by MAG and PSRC)</li><li>○ MPO GIS</li><li>○ ArcGIS Pro training series for new hires</li><li>○ GCoM USA Helpdesk webinar series</li><li>○ Rocky Mountain Land Use Institute-RoundUp series</li><li>○ American Planning Association Regional Futures Forum</li><li>○ Recreation-Growth Forum – Implications Wheel and Next Steps</li><li>○ Colorado Transit 101</li><li>○ FHWA ADA Webinars (State DOT and MPO)</li><li>○ Assessment on the Effectiveness of Performance-Based Planning and Programming</li><li>○ MPO Equity Working Groups (multiple)</li><li>○ TOOLBOX Peer Networking: Advancing Equity in Regional Transportation Planning</li><li>○ A Conversation on Ending Single-Family Zoning</li><li>○ South Platte waterfront development – virtual focus group</li><li>○ State Demography Office Webinar: Review of 2020</li><li>○ Webinar on Pilot Program for Transit-Oriented Development Planning FY2021 NOFA</li></ul>

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Activity 1.2 Tasks	Activity 1.2 Status
Attend in-state and out-of-state conferences	<ul style="list-style-type: none"> <li>• Attended in-state and out-of-state conferences related to UPWP tasks and federal metropolitan planning factors, including:               <ul style="list-style-type: none"> <li>○ International Association for Public Participation Annual North American Conference (virtual)</li> <li>○ Rocky Mountain Land Use Institute annual conference 2021 (virtual)</li> <li>○ AMPO Annual Conference (virtual)</li> <li>○ CommuteCon 2021 (virtual)</li> <li>○ Colorado Smart Cities Alliance Civic Lab (virtual)</li> <li>○ CDOT Annual TIM Conference (virtual)</li> <li>○ Urbanism Next 2021 (virtual)</li> <li>○ E-mobility Equity Conference (virtual)</li> <li>○ Micromobility World Conference (virtual)</li> <li>○ State Demography Summit (virtual)</li> <li>○ GIS in the Rockies Conference (virtual)</li> <li>○ Consortium for Scenario Planning Conference (virtual)</li> <li>○ 2021 Colorado Planning Conference (in-person)</li> </ul> </li> </ul>

### Activity 1.3 Unified Planning Work Program

Activity 1.3 Tasks	Activity 1.2 Status
Manage and administer the FY2020-2021 Unified Planning Work Program	<ul style="list-style-type: none"> <li>• Processed an amendment to the <a href="#">FY2020-2021 UPWP</a> (February 2021)</li> <li>• Monitored UPWP activities, tasks, and deliverables</li> </ul>
Develop and adopt the FY2022-2023 Unified Planning Work Program	<ul style="list-style-type: none"> <li>• Adopted <a href="#">FY2022-2023 UPWP</a> in July 2021</li> </ul>

Activity 1.3 Deliverables	2021
FY 2020 UPWP end-of-year report	<ul style="list-style-type: none"> <li>• Completed and distributed <a href="#">end-of-year report</a></li> </ul>
FY 2021 UPWP mid-year report	<ul style="list-style-type: none"> <li>• Completed and distributed <a href="#">mid-year report</a></li> </ul>
FY 2022-FY 2023 UPWP	<ul style="list-style-type: none"> <li>• Adopted <a href="#">FY2022-2023 UPWP</a> in July 2021</li> </ul>

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### Activity 2.1 MPO Compliance

Activity 2.1 Tasks	Activity 2.1 Status
<p>Support and participate in DRCOG's transportation policy, planning, and programming committees with agendas, meeting logistics, maintenance of membership, and miscellaneous communications</p>	<ul style="list-style-type: none"> <li>• Held 10 Regional Transportation Committee (RTC) meetings, 10 Transportation Advisory Committee (TAC) meetings and 1 special TAC work session, 12 DRCOG Board meetings, 8 Board Work Sessions, 9 Agency Coordination Team (ACT) meetings, and 9 (air quality) Interagency Coordination Group (ICG) meetings</li> <li>• Prepared ~400 agenda memos and associated attachments</li> </ul>
<p>Facilitate the planning and implementation of transportation projects and services, while strengthening the working relationships among the MPO partner agencies</p>	<ul style="list-style-type: none"> <li>• AMPO GIS and Data Visualization Working Group (Leadership Team)</li> <li>• In consultation with AMPO, FHWA, and Volpe developed working agenda for peer exchange (June 2021)</li> <li>• Serve on TRB's Standing Committee on Transportation Planning Policy and Processes</li> <li>• Serve on AMPO's Emerging Technologies Working Group</li> <li>• Facilitate quarterly meetings of peer-MPOs on new mobility services and technology</li> <li>• Serve on the Executive Committee of the APA Regional and Intergovernmental Planning Division. The Division's work program is focused on building and strengthening relationships among the nation's regional planning organizations (COGs/MPOs)</li> <li>• MPO socioeconomic modeling forum and forum planning group (multiple)</li> <li>• Provided input/overview of DRCOG's recent/historic scenario analysis to peer MPO</li> <li>• Peer Exchange: DRCOG and Wasatch Front Regional Council</li> <li>• Peer Exchange: DRCOG and MAPC on UrbanSim block model</li> <li>• Peer Exchange: DRCOG and ARC on planning/tools for virtual awards celebrations</li> <li>• Multi-agency TOD discussion between CDOT, DRCOG, and RTD</li> </ul>
<p>Host the Agency Coordination Team (ACT) and Interagency Consultation Group (ICG), and participate in CDOT and RTD quarterly meetings in order to facilitate communication among planning partners</p>	<ul style="list-style-type: none"> <li>• Hosted ACT/ICG meetings and independent ICG meetings</li> <li>• Attended R4/DRCOG quarterly meetings</li> <li>• Held TIP/STIP-only CDOT R1/DRCOG quarterly meetings between planning staff</li> </ul>

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Activity 2.1 Tasks	Activity 2.1 Status
Incorporate guidance of state and federal agencies on the regional transportation planning process	<ul style="list-style-type: none"> <li>Completed preparation of RTP revision procedures</li> <li>Participated in conversations with CDOT and other MPOs related to state GHG reduction targets and MPO planning process</li> </ul>
Participate on procedural efforts such as the definition of the functional highway classification system, national highway system, and planning boundaries	<ul style="list-style-type: none"> <li>Analyzed and provided comments on the proposed changes to the 2020 Census Urban Areas classification</li> <li>Participated in session organized by NARC, AMPO, and NADO focused on urban area classification providing feedback to Census Bureau staff</li> </ul>
Address items that were contained within the 2016 joint FHWA and FTA Quadrennial Review of the MPO Planning Process	<ul style="list-style-type: none"> <li>Complete. Addressed during the 2020 Quadrennial Review.</li> </ul>
Participate in joint FHWA and FTA Quadrennial Review of the MPO Planning Process	<ul style="list-style-type: none"> <li>Complete.</li> </ul>

Activity 2.1 Deliverables	2021
Update <i>Transportation Planning in the Denver Region</i>	<ul style="list-style-type: none"> <li>Began major update of document, timed to incorporate new federal infrastructure bill and to coincide with new MOA. Updates include:               <ul style="list-style-type: none"> <li>Kickoff meetings with CDOT/RTD management, FHWA and FTA, and interagency technical team</li> <li>Developing draft document design template</li> </ul> </li> </ul>

## Activity 2.2 Public Engagement and Outreach

Activity 2.2 Tasks	Activity 2.2 Status
Conduct forums, meetings, workshops, and others to gather input and/or inform the public regarding major planning products identified in the UPWP	<ul style="list-style-type: none"> <li>2050 RTP:               <ul style="list-style-type: none"> <li>Civic Advisory Group and Youth Advisory Panel meetings</li> <li>Developed virtual open house</li> <li>Public meetings and stakeholder group meetings for draft document</li> <li>Subregional transportation forum meetings</li> </ul> </li> <li>Conduct monthly Regional Vision Zero work group meetings</li> </ul>

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Activity 2.2 Tasks	Activity 2.2 Status
<p>Hold public hearings and facilitate public comment periods associated with MVRTP and Metro Vision Plan amendments, FasTracks reviews, new TIPs, and other topics; monitor and compile comments and input received</p>	<ul style="list-style-type: none"> <li>• Held public comment period for the 2050 RTP</li> <li>• Held public comment period for 2022-2025 TIP</li> <li>• 2050 MVRTP public hearing</li> <li>• 2022-2025 TIP public hearing</li> <li>• Conducted 30-day public comment period for draft Complete Streets Toolkit (adoption anticipated in October 2021)</li> <li>• Developed comment map for 2050 MVRTP comment period</li> </ul>
<p>Inform the public of adopted documents, program amendments, and opportunities to offer comments via DRCOG’s website</p>	<ul style="list-style-type: none"> <li>• The public was informed about the opportunity to provide comment for the 2050 RTP, 2022-2025 TIP, and draft Complete Streets Toolkit through eblasts, the DRCOG website, a virtual open house, and DRCOG social media pages</li> </ul>
<p>Investigate the feasibility of methods to increase public involvement</p>	<ul style="list-style-type: none"> <li>• Adapted engagement strategy for draft 2050 RTP to include virtual engagement methods due to the COVID-19 pandemic</li> <li>• Internally explored ways to provide additional public outreach and comments during the FY2024-2027 TIP cycle, not just after projects have been selected</li> </ul>
<p>Explore equity-based community outreach opportunities and funding sources</p>	<ul style="list-style-type: none"> <li>• Conducted forum on Environmental Justice and Transportation during 2050 RTP public comment period</li> <li>• Provided input and consultation to metro area philanthropic organization with new grantmaking emphasis in areas of equity and transportation</li> <li>• Collaborated with team of universities and other regional partners on National Science Foundation grant focused on transportation equity</li> <li>• Submitted initial grant application to increase DRCOG’s interpretation and translation resources</li> </ul>
<p>Explore continuation of Civic Advisory Group and Youth Advisory Panel</p>	<ul style="list-style-type: none"> <li>• Continuation of these groups is being considered but not yet determined</li> </ul>



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<p>Hold the Citizens' Academy, a program to educate participants about regional issues and empower them to participate in civic decision-making</p>	<ul style="list-style-type: none"><li>• Held a virtual seven-week Citizens' Academy in fall 2020 with nearly 40 participants and bringing in over 20 different local experts to speak about pressing regional issues, including transportation</li><li>• Promoted application period and prepared for spring 2021 virtual academy with 40+ participants</li><li>• Held a virtual seven-week Citizens' Academy in spring 2021 with more than 40 participants. The spring 2021 Academy included the following topics: economic vitality, regional growth trends, tackling grand challenges, transportation, history of planning and development in Denver region, recent Downtown Denver development trends, affordable housing, civic engagement, and health equity</li><li>• Provided guidance and support to numerous Academy participants as they developed their Individual Action Plan</li><li>• Hosted State of the Region: A Citizens' Academy Refresher mini-conference for Citizens' Academy alumni (September). Sessions focused on demographics, affordable housing, and transportation</li><li>• Developed rebranding plan and approach – transition from Citizens' Academy to Civic Academy</li></ul>

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Activity 2.2 Tasks	Activity 2.2 Status
Give presentations to community, advocacy, and other interest groups, as requested	<ul style="list-style-type: none"><li>• Presented to various groups including:<ul style="list-style-type: none"><li>○ DRMAC 2/2</li><li>○ Longmont Transportation Advisory Board 2/8</li><li>○ RTD Citizens Advisory Committee 2/17</li><li>○ Way to Go TMAs 2/18</li><li>○ Advisory Committee on Aging 2/19</li><li>○ Arvada Transportation Committee 2/24</li><li>○ Golden Transportation Advisory Board 2/25</li><li>○ Littleton Transportation Mobility Board 2/25</li><li>○ Accountable Health Communities Advisory Group 3/2</li><li>○ Denver Streets Partnership Steering Committee 3/5</li><li>○ Boulder County Local Coordinating Council 3/8</li><li>○ Boulder Transportation Advisory Board 3/8</li><li>○ Denver Inter-Neighborhood Cooperation 3/11</li><li>○ Metro Mayors' Caucus 1/21 and 9/15</li><li>○ Smart Cities Connect Fall Conference and Expo 10/29</li><li>○ North Area Transportation Alliance (2050 small-area forecast) 12/17</li><li>○ Young Leaders of the Americas Initiative 1/21</li><li>○ CU-Denver: URPL 5050 Urban Development (two sections) 2/9 and 2/10</li><li>○ City of Englewood: Sustainability Resources 3/24</li></ul></li></ul>
Create and maintain various DRCOG web pages and other communications materials	<ul style="list-style-type: none"><li>• Maintained all the following main landing web pages, and all associated pages under, including:<ul style="list-style-type: none"><li>○ <a href="#">Metro Vision</a></li><li>○ <a href="#">Data, Maps and Modeling</a></li><li>○ <a href="#">Regional Data Catalog</a></li><li>○ <a href="#">Transportation Planning</a></li><li>○ <a href="#">AMP</a></li><li>○ Online public engagement site and project-based sites</li></ul></li><li>• Completed a project to ensure ADA compliance on our sites</li></ul>

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Activity 2.2 Tasks	Activity 2.2 Status
Continue to research, integrate, and implement interactive internet-based technologies and other methods to support the public participation process, as necessary and appropriate	<ul style="list-style-type: none"> <li>Produced interactive map that captured public input for MVRTP and Regional Complete Streets Toolkit</li> <li>Incorporated Social Pinpoint tool to support online engagement efforts</li> <li>Utilized interactive polling tool, Mentimeter, to support participation in virtual meetings</li> <li>Created several online engagement pages using Social Pinpoint to solicit feedback</li> </ul>
Maintain and update DRCOG's plans and documents addressing public involvement, environmental justice, and Title VI/Limited English proficiency	<ul style="list-style-type: none"> <li>Trained DRCOG staff on our Limited English Proficiency plan and procedures</li> <li>Held introduction training to staff on Civil Rights (Title VI, LEP, ADA) requirements and procedures</li> <li>Completed update of public engagement plan to include more details on virtual meetings</li> <li>Completed update of Title VI Implementation Plan, Limited English Proficiency Plan, and ADA Program Access Plan</li> <li>Created standardized and uniform maps for Title VI/LEP update</li> <li>Began development of document accessibility procedures</li> </ul>
Implement engagement and outreach strategies identified in the updated Public Engagement Plan	<ul style="list-style-type: none"> <li>Implemented a variety of different engagement and outreach strategies for the MVRTP and Regional Complete Streets Toolkit, including interactive online mapping, paid social media advertising, surveys, continuation of new advisory groups, and extensive use of Social Pinpoint online engagement tool</li> </ul>
Evaluate the effectiveness of public engagement efforts	<ul style="list-style-type: none"> <li>The annual report of DRCOG's public engagement activities for 2020 includes an evaluation section which analyzes the effectiveness of our engagement efforts undertaken based on the criteria adopted in our public engagement plan</li> </ul>
As requested, conduct DRCOG-led short courses on Metro Vision and the transportation planning process	<ul style="list-style-type: none"> <li>None during this period</li> </ul>

Activity 2.2 Deliverables	2021
Summaries of public meetings, hearings, and workshops	<ul style="list-style-type: none"> <li><a href="#">Public Engagement 2020 Annual Report</a>, presented to the Board in <a href="#">May 2021</a></li> </ul>

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### Activity 2.3 Local Government and Stakeholder Education, Outreach, and Support

Activity 2.3 Tasks	Activity 2.3 Status
Educate local governments and other interested parties about the DRCOG transportation planning process, federal regulations, and associated documents	<ul style="list-style-type: none"> <li>Ongoing</li> </ul>
Meet with local governments about their transportation planning issues and needs	<ul style="list-style-type: none"> <li>Attended Subregional Forums</li> <li>Held debrief meetings with local governments and other applicants that applied for, but were not awarded, FY22-23 Community Mobility Planning and Implementation funding</li> </ul>
Meet with local governments, and their planning and development partners, about local planned growth and development patterns	<ul style="list-style-type: none"> <li>Met with staff and consultants updating the Lowry Trusts Master Plans</li> <li>Met with Port Colorado development team</li> </ul>
Provide support for communities as they prepare transportation and other plans and studies, including reviewing consultant scopes of service, ensuring final plan consistency with Metro Vision and the MVRTP	<ul style="list-style-type: none"> <li>Attended ongoing JEFFTAAG, JPAC, STRAC, and NATA meetings</li> <li>Attended CDOT and local agency TIP project meetings (Broomfield and Denver)</li> <li>Attended subregional technical committees and forums to gain recommendations, in addition to informing them of ongoing DRCOG activities</li> <li>Participated on Denver's EV Steering Committee</li> <li>Participated on Lone Tree's Mobility Hub project team</li> <li>Participated on Boulder's Curbside Management Policy and Program project team</li> <li>Attended Commerce City Comprehensive Plan Technical Assistance Committee</li> <li>Eastlake Streetscape Conceptual Plan Technical Steering Committee (City of Thornton)</li> <li>Review work in progress for CMPI projects: Colfax Viaduct Planning Study (West Colfax BID), Castle Rock Downtown Alley Master Plan</li> </ul>
Develop and distribute data, web maps, and informational products at the local and regional level (e.g., Community Profiles, Legislative Profiles)	<ul style="list-style-type: none"> <li>Updated Community Profiles and Legislative Profiles visualizations with new data</li> <li>Refreshed webmaps on the Regional Data Catalog using new technology (ESRI Experience Builder)</li> <li>Added new/updated datasets to the Regional Data Catalog, including: TMAs, Unincorporated Areas, Municipal Boundaries, DRAPP project tiles with downloadable imagery, Colorado Metropolitan Planning Organizations, Vulnerable Populations, Census school districts, Parks and Open Space, Housing, Crashes, Counties</li> </ul>

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Activity 2.3 Tasks	Activity 2.3 Status
Facilitate forums for data professionals in the region to collaborate on GIS data and information (e.g., Denver Regional Data Consortium)	<ul style="list-style-type: none"> <li>• Presented about virtual engagement efforts at March 31 AMPO GIS &amp; Data Working Group webinar</li> <li>• Held Regional Data Consortium meetings and issued newsletters</li> </ul>
Develop and distribute factsheets, reports, white papers, brochures, and other collateral materials needed to communicate critical regional issues to the Board, regional stakeholders, and the public	<ul style="list-style-type: none"> <li>• Maintained webpages (including factsheets) for data acquisition projects (<a href="#">imagery</a>, <a href="#">lidar</a>, <a href="#">planimetric data</a>, <a href="#">land use land cover</a>)</li> <li>• Data Brief – Regional growth deceleration</li> <li>• Data Brief – COVID Traffic</li> </ul>
Work collaboratively across jurisdictions, agencies, and organizations to conduct stakeholder outreach and engagement processes to better inform and involve communities in planning and decisions that impact them	<ul style="list-style-type: none"> <li>• Held Quarterly Managers Forums</li> </ul>
Facilitate/host webinars and other educational events	<ul style="list-style-type: none"> <li>• Small Communities Hot Topics Forum</li> <li>• APA – Regional Intergovernmental Planning Division Futures Forum (DRCOG among primary organizers)</li> <li>• Hosted workshop for local government staff in advance of Front Range Waste Diversion request for grant applications</li> <li>• Idea Exchange Webinars:               <ul style="list-style-type: none"> <li>○ Clearing the Air – Climate Actions to Reduce GHG Pollution</li> <li>○ Rethinking Parking Policy for TOD</li> <li>○ Green from the ground up: The Sustainable Neighborhood Network</li> </ul> </li> </ul>

### Activity 2.4 Interregional, Regional, and Corridor Planning Coordination

Activity 2.4 Tasks	Activity 2.4 Status
Maintain communication and exchange information with other regional stakeholders, including neighboring counties and the state on transportation, land use, and economic development issues	<ul style="list-style-type: none"> <li>• Maintained communication and exchanged information</li> </ul>
Coordinate with neighboring counties, MPOs, and TPRs 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	<ul style="list-style-type: none"> <li>• Attended all statewide MPO and STAC meetings</li> </ul>
Monitor, participate, and assist with statewide or interregional transportation planning activities, corridor studies, NEPA studies, PELs, and funding opportunities	<ul style="list-style-type: none"> <li>• Attended, provided information for, and monitored numerous interregional studies</li> </ul>

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Activity 2.4 Tasks	Activity 2.4 Status
Provide model components and outputs to planning partners, local governments, or consultants conducting NEPA or other studies	<ul style="list-style-type: none"> <li>• Provided model information for:               <ul style="list-style-type: none"> <li>○ Local Plans: Thornton, Arapahoe County, Denver, RTD, and Firestone</li> <li>○ Studies: SH-119 T&amp;R, US-285 &amp; Broadway Interchange, I-270 Corridor Improvements, Colfax Transit Implementation, I-70 &amp; Harvest Rd Interchange, and Smoky Hill Rd Study</li> </ul> </li> </ul>
Participate and provide technical support in regional NEPA/environmental and Planning and Environment Linkages (PEL) efforts and/or similar regional and corridor planning efforts, as necessary. Implement or incorporate outcomes into planning documents as appropriate	<ul style="list-style-type: none"> <li>• Attended, provided information for and/or monitored regional planning efforts, including:               <ul style="list-style-type: none"> <li>○ US-85 N Interchanges, Belleview EA, I-25 Central Corridor, 1601s (Harvest, Airpark-Watkins), Front Range Rail EIS, I-270 Traffic Study, Floyd Hill, SH-52 PEL, East 88th Ave, Santa Fe Dr. PEL, N. I-25: SH-7 to SH-66, I-270 Corridor Improvements Study, East Colfax BRT, and I-76/WCR 8 Interchange</li> </ul> </li> </ul>
Participate in and/or monitor the state transportation-related enterprises and committees including: High-Performance Transportation Enterprise, Statewide Bridge Enterprise, CDOT Transit and Rail Advisory Committee, CDOT Efficiency and Accountability Committee, the State Transportation Advisory Committee (STAC), the SW Chief & Front Range Passenger Rail Commission, and others as appropriate	<ul style="list-style-type: none"> <li>• Attended all TRAC meetings</li> <li>• Attended all scheduled STAC meetings</li> <li>• Attended monthly meetings of the Colorado Southwest Chief &amp; Front Range Passenger Rail Commission</li> <li>• Began initial activities to identify process to appoint DRCOG members to Front Range Passenger Rail District by early 2022</li> <li>• Attended meetings of the HPTE Central 70 Tolling Equity Program</li> </ul>
Participate in regional transportation funding initiative	<ul style="list-style-type: none"> <li>• Attended meetings with Metro Mayors Council and others regarding potential regional transportation strategies, needs, and options</li> </ul>

## Activity 2.5 FAST Act Performance Measure Reporting

Activity 2.5 Tasks	Activity 2.5 Status
Compile data associated with performance measures for PM1, PM2, PM3, TAM, and PTASP	<ul style="list-style-type: none"> <li>• Compiled and analyzed data received from CDOT for FHWA Fast Act performance measures</li> </ul>
Work with CDOT, RTD, FHWA, and FTA to set or revise targets and develop baselines for each FAST Act-required performance-based planning measure for the DRCOG MPO Planning Area	<ul style="list-style-type: none"> <li>• Coordinated with CDOT on reevaluation of DRCOG-supported PM targets</li> <li>• Coordinated with RTD on new PTASP targets</li> <li>• Adopted 2021 PM1 Safety targets</li> <li>• Adopted 2021 PTASP targets</li> <li>• Adopted revised four-year PM2 infrastructure condition targets</li> </ul>

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Activity 2.5 Tasks	Activity 2.5 Status
Prepare performance measure reports, and/or assist CDOT with preparing performance measure reports, for FAST Act performance measures	<ul style="list-style-type: none"> <li>Worked with CDOT to develop the CMAQ Mid-Period Performance Plan</li> <li>Worked with CDOT to develop the 2050 MVRTP Systems Performance Report</li> </ul>
Maintain performance tracking reports on TIP-funded projects	<ul style="list-style-type: none"> <li>Ongoing</li> </ul>
Prepare/update CMAQ performance plan of TIP-funded projects	<ul style="list-style-type: none"> <li>Worked with CDOT to develop the CMAQ Mid-Period Performance Plan</li> </ul>

Activity 2.5 Deliverables	2021
FAST Act-required performance measures	<ul style="list-style-type: none"> <li>2021 PTASP targets adopted</li> <li>2021 PM1 Safety targets adopted</li> <li>Revised four-year PM2 infrastructure condition targets</li> </ul>
Fast Act performance measures report	<ul style="list-style-type: none"> <li>2050 MVRTP System Performance Report completed</li> <li>CMAQ Mid-Period Performance Progress Report completed</li> </ul>

### Activity 2.6 Air Quality and Conformity

Activity 2.6 Tasks	Activity 2.6 Status
Monitor federal and state legislation regarding new standards, requirements, or procedures impacting transportation. Assist air quality agencies (i.e., APCD, RAQC), as needed	<ul style="list-style-type: none"> <li>Ongoing</li> <li>Assisted with modeling analyses for inventory and emission calculations for Ozone SIP</li> </ul>
Monitor the readings and trends of criteria pollutants in relation to established attainment standards	<ul style="list-style-type: none"> <li>Ongoing</li> </ul>
Host the Interagency Consultation Group (ICG) in order to facilitate better communication among planning partners and make air quality process decisions	<ul style="list-style-type: none"> <li>Hosted several ICG meetings</li> </ul>
Collect annual Regulation 16 Street Sanding and Sweeping reports and prepare a summary (RAQC)	<ul style="list-style-type: none"> <li>Ongoing</li> </ul>
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 2040 MVRTP	<ul style="list-style-type: none"> <li>No amendments conducted</li> <li>An air quality conformity run and analysis was performed for the new 2050 MVRTP.</li> </ul>
Provide travel model data results in support of air quality conformity analyses	<ul style="list-style-type: none"> <li>The 2050 MVRTP travel model data results were provided to APCD</li> </ul>
Prepare air quality conformity findings (DRCOG) and assess findings (APCD and AQCC) associated with amendments to the MVRTP	<ul style="list-style-type: none"> <li>The 2050 MVRTP air quality conformity findings were completed</li> </ul>
Participate in the development of the new ozone State Implementation Plan (SIP)	<ul style="list-style-type: none"> <li>Ongoing</li> </ul>



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Activity 2.6 Tasks	Activity 2.6 Status
Continue with activities associated with the Regional Haze SIP	<ul style="list-style-type: none"> <li>Ongoing</li> </ul>
Assist with local and regional analyses of emissions, greenhouse gases, and other air quality topics	<ul style="list-style-type: none"> <li>Assisted Louisville, Broomfield, Northglenn, Denver, Boulder, and regional GHG inventory efforts</li> </ul>
Activity 2.6 Deliverables	2021
Annual Conformity Determination Reports	<ul style="list-style-type: none"> <li>Conformity determination reports were completed for the 2050 MVRTP and 22-25 TIP</li> </ul>

### Activity 3.1 Metro Vision Plan – Collaboration and Implementation Assistance

Activity 3.1 Tasks	Activity 3.1 Status
Collect, compile, and purchase data in support of Metro Vision collaboration and implementation activities	<ul style="list-style-type: none"> <li>Purchased employment data from QCEW in support of Metro Vision metrics</li> <li>Completed the 2021 annual data collection for gathering information from local governments</li> </ul>
Develop and provide decision-support tools to local jurisdictions, regional partners, and the public	<ul style="list-style-type: none"> <li>Advised external partner on user engagement strategy in support of new decision support tool designed to identify and protect high-priority conservation areas</li> </ul>
Provide individualized technical assistance to communities for the purposes of implementing Metro Vision	<ul style="list-style-type: none"> <li>Participated in Commerce City Comprehensive Plan Technical Advisory Committee</li> <li>Preparations with Longmont staff for Council Work Session focused on future of transportation planning and coordination</li> </ul>
Work with local governments and other stakeholders to form issue- and/or geography-based cohorts to identify and pilot initiatives affecting growth, development, economic vitality, and quality of life	<ul style="list-style-type: none"> <li>Initiated local government cohort focused on inclusionary zoning – held three meetings during reporting period</li> </ul>



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Activity 3.1 Tasks	Activity 3.1 Status
<p>Participate on steering committees, advisory groups, leadership teams, etc. for aligned organizations and initiatives; participate in regional partnerships that advance Metro Vision outcomes and objectives</p>	<ul style="list-style-type: none"> <li>• Staff served on:               <ul style="list-style-type: none"> <li>○ Metro DNA executive and steering committees</li> <li>○ ULI Colorado Urban Mobility and Development (formerly TOD) Committee</li> <li>○ American Planning Association – Regional and Intergovernmental Planning Division (Exec. Committee)</li> <li>○ American Planning Association – Foresight Community</li> <li>○ Geospatial Skills Study (co-founding member)</li> <li>○ GIS in the Rockies Board of Directors</li> <li>○ Lifelong Colorado Steering Committee</li> <li>○ Two university-led consortiums seeking funding through the National Science Foundation (Civic Innovation Lab)</li> <li>○ RAQC Climate Advisory Workgroup</li> <li>○ Colorado Outdoor Regional Partnerships – Plan Development Coalitions</li> <li>○ HB21-1271 Incentives Grant Program</li> <li>○ Interview: Use and influence of health-related indicators in transportation planning (Portland State)</li> </ul> </li> </ul>
<p>Sponsor events, organize workshops, and collaborate with organizations that are working to support Metro Vision outcomes (e.g., Metro Vision Idea Exchanges)</p>	<ul style="list-style-type: none"> <li>• Conducted remote versions of Metro Vision Idea Exchanges:               <ul style="list-style-type: none"> <li>○ Clearing the Air – Climate Actions to Reduce GHG Pollution (Jan-21)</li> <li>○ Rethinking Parking Policy for TOD (Mar-21)</li> <li>○ Green from the ground up: The Sustainable Neighborhood Network (Jun-21)</li> </ul> </li> <li>• Jointly conducted solicitation with Urban Land Institute (ULI) for DRCOG-sponsored Technical Advisory Panels</li> <li>• ULI DRCOG-sponsored Technical Advisory Panel conducted for Commerce City at 72<sup>nd</sup> Station (report forthcoming)</li> </ul>
<p>Coordinate with local governments on member-sponsored plan amendments (e.g., new urban centers, other policy amendments)</p>	<ul style="list-style-type: none"> <li>• Outlined Metro Vision amendment process for Board of Directors, which includes member-sponsored opportunity</li> <li>• Consulted Board of Directors on potential staff-initiated amendments to Metro Vision (plan reorganization, performance measure revisions, etc.)</li> </ul>

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Activity 3.1 Tasks	Activity 3.1 Status
Develop Metro Vision plan amendments that ensure consistency between 2050 Metro Vision Regional Transportation Plan and Metro Vision (e.g., new/revise measures, targets and initiatives)	<ul style="list-style-type: none"> <li>Reviewed other state and regional plans and strategies to draft and present staff-proposed outcome- and objective-level changes to be included in a potential round of Metro Vision amendments alongside changes to ensure consistency with the 2050 MVRTP</li> <li>Drafted staff-proposed amendments to Metro Vision objectives based on the public review draft of the 2050 MVRTP</li> </ul>
Collaborate with communities using DRCOG’s Boomer Bond assessment tool to help address impacts of region’s rapidly increasing aging population	<ul style="list-style-type: none"> <li>Advised Boulder, Edgewater, and Castle Pines during their Boomer Bond self-assessment – each completed their assessment during the reporting period</li> </ul>
Maintain current Boomer Bond assessment tool and develop alternative assessment models	<ul style="list-style-type: none"> <li>Activity to test alternative assessment models suspended as a result of COVID-19 (no opportunity for in-person meetings)</li> </ul>
Work with local governments to develop programs, data partnerships, initiatives that improve the coordinated efforts to identify and designate areas for new urban development or other locally designated priority areas for population and employment growth	<ul style="list-style-type: none"> <li>No activity during reporting period</li> </ul>
Facilitate the review, evaluation, and process to update intergovernmental agreement(s) designed to assist local governments in their efforts to individually and collectively plan for, and address, regional growth	<ul style="list-style-type: none"> <li>No activity during reporting period</li> </ul>

Activity 3.1 Deliverables	2021
Amendments to Metro Vision to reflect new horizon year of MVRTP and any other adjustments to ensure consistency	<ul style="list-style-type: none"> <li>No amendment process during reporting period other than 2050 MVRTP consistency-related cycle above</li> </ul>

### Activity 3.2 Metro Vision Plan – Research and Performance Management

Activity 3.2 Tasks	Activity 3.2 Status
Routinely analyze progress on Metro Vision outcomes, including documentation of successes and ongoing challenges	<ul style="list-style-type: none"> <li>Published regional data briefs highlighting challenges in the region:               <ul style="list-style-type: none"> <li>Data Brief – Regional growth deceleration</li> <li>Data Brief – COVID Traffic</li> </ul> </li> <li>Updated the Performance Measure Status Report for 2019</li> </ul>
Provide data, tools, case studies, and information that support and document local and region initiatives that contribute to Metro Vision outcomes and objectives (e.g., connecting people to open space, preparing for, and minimizing the impact of natural disasters, increasing access to opportunity, and diversifying the region’s housing stock, etc.)	<ul style="list-style-type: none"> <li>Updated datasets related to MV objectives available on the Regional Data Catalog</li> <li>Recognized 2019 Metro Vision award winners at virtual awards celebration (April 2021)</li> </ul>

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Activity 3.2 Tasks	Activity 3.2 Status
Collect, compile, and purchase data in support of Metro Vision performance measurement	<ul style="list-style-type: none"> <li>• Purchased employment data from the Colorado Department of Labor and Employment in support of Metro Vision metrics</li> <li>• Purchased Construction Monitor and Zonda</li> <li>• Completed the 2021 annual data collection for gathering information from local governments</li> </ul>
Develop and maintain tools and applications that enable data exchange among local jurisdictions, regional partners, and DRCOG	<ul style="list-style-type: none"> <li>• Maintained and updated the Regional Data Catalog and added functionality for imagery download</li> </ul>
Develop, maintain, and update the Denver Regional Visual Resources (DRVR) that allow internal and external users to explore and consume information	<ul style="list-style-type: none"> <li>• Updated the Community and Legislative Profiles visualizations</li> <li>• Evaluated visualization platforms in preparation for a DRVR refresh</li> <li>• Streamlined existing visualizations in advance of larger redesign project</li> <li>• Acquired new data visualization platforms (Infogram and Power BI) based on usability, visualization repeatability, cost, and web integration</li> <li>• Initiated project to redesign Community and Legislative Profiles</li> </ul>
Survey local governments, the public, and other stakeholders to understand local and regional planning challenges, opportunities, and needs	<ul style="list-style-type: none"> <li>• Surveyed local governments on potential responses to state bills that would affect local zoning and housing policy</li> </ul>
Work with local governments, the public, 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	<ul style="list-style-type: none"> <li>• Surveyed partners and potential partners about their upcoming data needs related to imagery etc.</li> </ul>
Develop and provide information on key economic trends influencing the region's forecasted growth	<ul style="list-style-type: none"> <li>• Incorporated regional growth deceleration forecasts from the State Demography Office into a data brief and several presentations about the small-area forecast</li> </ul>
Support regional and local scenario analysis, including impacts of alternative land use and development patterns	<ul style="list-style-type: none"> <li>• No activity during this period</li> </ul>
Conduct coordinated land use, socioeconomic, and mobility research and analytics	<ul style="list-style-type: none"> <li>• Presented over two Board Work Sessions analysis describing the gap between Metro Vision outcomes and objectives and the small-area forecast prepared for the 2050 MVRTP</li> </ul>

Activity 3.2 Deliverables	2021
Populate metrovision.drcog.org with research (e.g., Metro Vision performance measure reporting, infographics, community highlights, external resources, etc.)	<ul style="list-style-type: none"> <li>• Added to the metrovision.drcog.org resources directory</li> <li>• Updated the Performance Measure Status Report for 2019</li> </ul>
COVID implications research	<ul style="list-style-type: none"> <li>• Data Brief – COVID Traffic</li> </ul>

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Activity 3.2 Deliverables	2021
Regional research briefings	<ul style="list-style-type: none"> <li>• Data Brief – Regional growth deceleration</li> <li>• Data Brief – COVID Traffic</li> </ul>

### Activity 3.3 Metro Vision Regional Transportation Plan

Activity 3.3 Tasks	Activity 3.3 Status
Solicit and process (if needed) amendments to the 2040 MVRTP annually or as needed; assist local governments and other project sponsors with plan amendment questions and procedures	<ul style="list-style-type: none"> <li>• No 2040 MVRTP amendments during this period; replaced with 2050 MVRTP in April 2021</li> </ul>
Prepare and implement a proactive and robust public and stakeholder engagement plan and process for the 2050 MVRTP	<ul style="list-style-type: none"> <li>• Held several meetings with the Youth Advisory Panel (YAP) and Civic Advisory Group (CAG) to present on the development and draft of the 2050 MVRTP</li> <li>• Developed an online virtual open house for public and stakeholder engagement</li> <li>• Held three public meetings to present the draft 2050 MVRTP</li> <li>• Completed and published results of Phase 2 and 3 public engagement activities</li> <li>• Presented at multiple county transportation forums</li> <li>• Presented to multiple stakeholder meetings</li> </ul>
Prepare 2050 land use/socioeconomic forecasts	<ul style="list-style-type: none"> <li>• Prepared appendix to the 2050 MVRTP describing the 2050 small-area forecast assumptions used in all plan-related forecasting</li> </ul>
Work with local governments, CDOT, RTD, and other stakeholders to update the Metro Vision transportation system, including the Regional Roadway System and unfunded/vision projects	<ul style="list-style-type: none"> <li>• Updates complete. No activity during the reporting period</li> </ul>
Conduct scenario planning analyses to test land use/urban form and multimodal transportation investment priorities	<ul style="list-style-type: none"> <li>• Scenario planning complete. No activity during the reporting period</li> </ul>
Collaborate with CDOT, RTD, and other stakeholders to finalize a common set of revenue assumptions, project costs, and other information needed to prepare the 2050 MVRTP financial plan	<ul style="list-style-type: none"> <li>• Worked with CDOT and RTD on reasonably expected revenues and expenditures through 2050 to finalize the 2050 MVRTP financial plan</li> </ul>
Define expenditures and allocate revenues and expenditures to projects and project categories	<ul style="list-style-type: none"> <li>• Worked with CDOT and RTD to determine expenditures and develop allocation assumptions for projects and programs</li> </ul>
Identify fiscally constrained regionally significant roadway, interchange, and rapid transit capacity projects	<ul style="list-style-type: none"> <li>• Solicited and evaluated diverse multimodal projects for regional funding</li> <li>• DRCOG Board adopted 2050 fiscally constrained project and program investment priorities</li> </ul>
Provide travel model data results in support of 2040 MVRTP amendments and the 2050 MVRTP	<ul style="list-style-type: none"> <li>• See below</li> </ul>

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Activity 3.3 Tasks	Activity 3.3 Status
Complete travel model and air quality conformity modeling analyses for the draft fiscally constrained network	<ul style="list-style-type: none"> <li>Conducted air quality conformity determination analyses on the 2050 RTP's fiscally constrained roadway and rapid transit networks</li> </ul>
Prepare the 2050 MVRTP document to address all federal requirements and document the planning process and recommended plan	<ul style="list-style-type: none"> <li>Completed the draft 2050 MVRTP document, appendices, interactive projects webmap, and related documentation</li> <li>Developed standard map template, prepared data and produced dozens of maps for 2050 MVRTP</li> </ul>
Conduct a public hearing and adopt the 2050 MVRTP	<ul style="list-style-type: none"> <li>Public hearing held on March 17 and adoption on April 21</li> </ul>
Complete the DRCOG Regional Multimodal Freight Plan derived from CDOT's Statewide Multimodal Freight Plan	<ul style="list-style-type: none"> <li>Plan is complete. No activity during the reporting period</li> </ul>
Incorporate the DRCOG Regional Multimodal Freight Plan and Active Transportation Plan into the 2050 MVRTP	<ul style="list-style-type: none"> <li>These and other plans incorporated in final 2050 RTP</li> </ul>
Participate in the National Highway Freight Program project selection process and designate Critical Urban Freight Corridors (as needed) based on project selection	<ul style="list-style-type: none"> <li>Not needed during this reporting period</li> </ul>
Participate in Freight Advisory Council meetings	<ul style="list-style-type: none"> <li>Participated in FAC meetings</li> </ul>
Engage in DRCOG-led corridor planning services	<ul style="list-style-type: none"> <li>No activity during the reporting period</li> </ul>

Activity 3.3 Deliverables	2021
Complete and adopt the 2050 MVRTP	<ul style="list-style-type: none"> <li>2050 RTP adopted on April 21</li> </ul>
Regional Complete Streets Toolkit	<ul style="list-style-type: none"> <li>Completed draft street typologies (incorporated into 2050 MVRTP)</li> <li>Completed draft Complete Streets Toolkit document, with 30-day public comment period held mid-August to mid-September 2021</li> <li>Complete DRCOG's first draft "story map" for the Complete Streets Toolkit typologies</li> </ul>

### Activity 3.4 Pedestrian and Bicycle Planning

Activity 3.4 Tasks	Activity 3.4 Status
Monitor progress on TIP-funded and other bicycle and pedestrian projects	<ul style="list-style-type: none"> <li>Annual project status update was completed Fall 2020; next update scheduled for Fall 2021</li> </ul>
Maintain facility inventory and mapping products for bicycle facilities in the Denver region. Monitor new sources, methodologies, and applications for providing information	<ul style="list-style-type: none"> <li>Continued to update and maintain bicycle facility inventory</li> </ul>
Collect regional bicycle facility counts	<ul style="list-style-type: none"> <li>Included bicycle counts in the GIS Data Annual Request from local governments</li> <li>All counts collected, schema edited, data entered, guidance document created</li> <li><a href="#">Uploaded to data catalog</a> and published webmap</li> </ul>

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Activity 3.4 Tasks	Activity 3.4 Status
Develop resources and training to share bicycle facility inventory schema with regional partners	<ul style="list-style-type: none"> <li>The bicycle facility inventory is available for download from the Regional Data Catalog and for exploration via a webmap</li> </ul>
Continue regional active transportation meetings/summits to facilitate communication and provide educational opportunities	<ul style="list-style-type: none"> <li>No activity during the reporting period</li> </ul>
Respond to requests for assistance regarding local pedestrian and bicycle planning topics and projects	<ul style="list-style-type: none"> <li>Ongoing</li> </ul>
Monitor, evaluate procedures, and compile bicycle use counts conducted by CDOT and local governments across the region	<ul style="list-style-type: none"> <li>Ongoing</li> </ul>
Participate in CDOT's annual Safe Routes to School program development and project selection process, as requested	<ul style="list-style-type: none"> <li>Participated on SRTS Advisory Committee in project selection in January 2021</li> </ul>
Maintain a performance tracking report on TIP-funded bicycle and pedestrian projects	<ul style="list-style-type: none"> <li>Completed Fall 2020 TIP-funded active transportation project update</li> </ul>

Activity 3.4 Deliverables	2021
Conduct regional bicycle facility counts	<ul style="list-style-type: none"> <li>Completed multiple counts</li> </ul>

### Activity 4.1 Prepare Transportation Improvement Program

Activity 4.1 Tasks	Activity 4.1 Status
Prepare an assessment of the 2020-2023 dual model TIP process	<ul style="list-style-type: none"> <li><a href="#">White paper</a> comparing this TIP cycle with ones in the past on numerous metrics completed in October 2020</li> </ul>
Work with project sponsors, CDOT, and RTD to rollover all appropriate 2020-2023 TIP projects and funding to a new 2022-2025 TIP document	<ul style="list-style-type: none"> <li>Development process for the 2022-2025 TIP is complete</li> </ul>
Prepare a 2022-2025 TIP document for committee review and Board adoption by Summer 2021	<ul style="list-style-type: none"> <li><a href="#">22-25 TIP</a> adopted in April 21</li> </ul>
Begin 2024-2027 TIP Policy discussions	<ul style="list-style-type: none"> <li>TAC and Board discussions began in April, leading towards anticipated TIP Policy document adopted in January 2022</li> </ul>

Activity 4.1 Deliverables	2021
Adopt 2022-2025 TIP document	<ul style="list-style-type: none"> <li><a href="#">22-25 TIP</a> adopted in April 21</li> </ul>

### Activity 4.2 Transportation Improvement Program Set-Asides Selections

Activity 4.2 Tasks	Activity 4.2 Status
Set call and project procedures for each set-aside	<ul style="list-style-type: none"> <li>RTOT: Fall 2020 and Summer 2022</li> <li>CMPI: April 2021</li> <li>TDM: July 2021</li> <li>HST: Fall 2020</li> </ul>



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Activity 4.2 Tasks	Activity 4.2 Status
Conduct appropriate calls once procedures are adopted by the DRCOG Board	<ul style="list-style-type: none"> <li>• RTOT: Fall/Winter 2020 and Fall 2022</li> <li>• CMPI: June 2021; projects selected in September 2021</li> <li>• TDM: August 2021</li> <li>• HST: Fall 2020</li> <li>• Safer Main Streets: CDOT/DRCOG round 1 and round 1.5 awards completed</li> </ul>
Ensure selected projects are incorporated into the adopted TIP	<ul style="list-style-type: none"> <li>• All projects have been incorporated</li> </ul>

Activity 4.2 Deliverables	2021
Adopt policies, procedures, and projects for the TDM, Community Mobility Planning Implementation, and Human Services Transportation Set-Asides	<ul style="list-style-type: none"> <li>• See above</li> </ul>

### Activity 4.3 Transportation Improvement Program Management

Activity 4.3 Tasks	Activity 4.3 Status
Prepare amendments and monthly administrative modifications to the 2020-2023 TIP and the subsequent 2022-2025 TIP, and maintain an amended version of the TIP document on DRCOG’s website and in the Transportation Regional Improvement Projects and Survey (TRIPS) database, as necessary	<ul style="list-style-type: none"> <li>• Ongoing</li> </ul>
Conduct appropriate project programming activities when additional revenues are made available or decreased, including additional Calls for Projects as warranted	<ul style="list-style-type: none"> <li>• Additional funding became known in the beginning of 2020 and the waiting list protocol process began in March 2020. Additional funding became available in early 2021 through COVID relief funds. Following subregional recommendations, waiting list process projects were approved in April</li> <li>• New Call for Projects took place in April-June 2021 to place projects on the waiting lists. No new funding was associated with this call</li> <li>• Revised and published regional datasets in support of FY22-25 supplemental call for projects</li> <li>• Internal discussion and development of options on how to program anticipated MMOF funds in FY22-23</li> </ul>
Provide financial and project coordination assistance to implementing agencies and project sponsors	<ul style="list-style-type: none"> <li>• Provided assistance to project sponsors, as necessary</li> </ul>
Conduct activities with CDOT and local governments to continuously refine the IGA and contracting processes	<ul style="list-style-type: none"> <li>• Met with CDOT Region 1 to discuss the 20-23 TIP outcomes and how we may refine the IGA and contracting process.</li> </ul>

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Activity 4.3 Tasks	Activity 4.3 Status
Monitor the progress status and results of TIP projects including how COVID-19 has impacted projects	<ul style="list-style-type: none"> <li>Prepared the FY20 project delay report</li> <li>Gathered FY21 mid-year data in June 21</li> <li>FY20 2<sup>nd</sup> year delays report to Board in July 2021</li> <li>Prepared to gather FY21 year end delay status (December 21 Board report)</li> <li>Serving on steering/advisory committees for FY19 STAMP/UC studies (Boulder and Englewood)</li> </ul>
Develop, maintain, and update the TRIPS project database and TIP web map	<ul style="list-style-type: none"> <li>ongoing</li> </ul>

Activity 4.3 Deliverables	2021
FY 2020 Projects Delayed Report	<ul style="list-style-type: none"> <li>Adopted by the Board in <a href="#">December 2020</a></li> <li>FY21 2<sup>nd</sup> year delayed report for FY20 projects adopted by the Board in <a href="#">July 2021</a></li> </ul>
FY 2020 Annual Listing of Obligated Projects	<ul style="list-style-type: none"> <li><a href="#">Board reviewed</a> and posted to the DRCOG TIP <a href="#">website</a> in December 2020</li> </ul>

### Activity 5.1 DRCOG Congestion Management Process

Activity 5.1 Tasks	Activity 5.1 Status
Update the Congestion Mitigation Program (CMP) databases annually	<ul style="list-style-type: none"> <li>Updated traffic count data</li> </ul>
Update formulas and factors for delay calculations, as needed. Evaluate new data sources and methodologies (e.g., INRIX, HERE, StreetLight)	<ul style="list-style-type: none"> <li>Ongoing</li> </ul>
Prepare public information and outreach documents and presentations, including summaries of CMP data	<ul style="list-style-type: none"> <li>Presentations prepared for committees and Board</li> <li>Responded to several media inquiries</li> <li>Completed the 2020 Annual Report on Traffic Congestion in the Denver Region</li> </ul>
Maintain and update CMP pages on the DRCOG website	<ul style="list-style-type: none"> <li>Ongoing</li> </ul>
Monitor federal (FAST Act) and statewide congestion measure rules, measures, targets, and procedures. Compile required calculations as needed	<ul style="list-style-type: none"> <li>Ongoing</li> </ul>
Maintain performance tracking report on TIP-funded roadway projects	<ul style="list-style-type: none"> <li>Tracking spreadsheet updated</li> </ul>
Review CMP per recommendation of 2016 Federal Planning Certification Review	<ul style="list-style-type: none"> <li>Ongoing</li> </ul>

Activity 5.1 Deliverables	2021
Annual Report of Traffic Congestion in the Denver Region	<ul style="list-style-type: none"> <li>Completed and presented 2020 report</li> </ul>



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<b>Activity 5.1 Deliverables</b>	<b>2021</b>
Update Congestion Mitigation Toolkit as centralized resource hub	<ul style="list-style-type: none"> <li>Currently exploring an update</li> </ul>

### Activity 5.2 Regional Travel Demand Management (TDM) Planning

<b>Activity 5.2 Tasks</b>	<b>Activity 5.2 Status</b>
Monitor progress and results of projects funded through the TIP TDM Set-Aside, including activities of the Regional TDM Program	<ul style="list-style-type: none"> <li>Ongoing</li> </ul>
Monitor new types of TDM activities and techniques	<ul style="list-style-type: none"> <li>Ongoing</li> </ul>
Monitor and assist with “last-mile” studies and analyses associated with various transit stations	<ul style="list-style-type: none"> <li>No activity during the reporting period</li> </ul>
Coordinate TDM project benefit calculation methodology and training with regional and statewide partners	<ul style="list-style-type: none"> <li>No activity during the reporting period</li> </ul>

<b>Activity 5.2 Deliverables</b>	<b>2021</b>
Evaluate results of past TDM set-aside and TDM services projects	<ul style="list-style-type: none"> <li>TDM projects evaluated as part of annual CMAQ benefits reporting</li> </ul>

### Activity 5.3 Regional Transportation Operations & Technology

<b>Activity 5.3 Tasks</b>	<b>Activity 5.3 Status</b>
Coordinate and facilitate meetings and activities of the Regional Transportation Operations Working Group	<ul style="list-style-type: none"> <li>Conducted six RTO Working Group meetings</li> </ul>
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	<ul style="list-style-type: none"> <li>Continued coordination with CDOT and FHWA to incorporate Systems Engineering Analyses into project management processes</li> </ul>
Assist project sponsors with DRCOG Regional ITS Architecture and other transportation technology project implementation, as requested	<ul style="list-style-type: none"> <li>Ongoing</li> </ul>
Maintain the DRCOG Regional ITS Architecture	<ul style="list-style-type: none"> <li>Annual update coinciding with Regional Transportation Operations and Technology Plan development</li> </ul>
Monitor and participate on national, state, regional, and local mobility technology efforts	<ul style="list-style-type: none"> <li>Participated in the OMF and SAE Working groups to develop mobility data guidelines</li> </ul>
Monitor and participate on transportation incident management committees efforts	<ul style="list-style-type: none"> <li>Attended 16 Traffic Incident Management (TIM) Team meetings</li> <li>DRCOG attended five Colorado Standing Committee on First Responders Safety (CSCFRS) executive meetings</li> <li>Attended Annual Traffic Incident Management conference</li> </ul>

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Activity 5.3 Tasks	Activity 5.3 Status
Incorporate technology and operations strategies into the Congestion Management Process analyses, measures, and public information products	<ul style="list-style-type: none"> <li>Ongoing; tactical action identified in Mobility Choice Blueprint</li> </ul>
Maintain and update Regional Transportation Operations and other applicable DRCOG web site pages	<ul style="list-style-type: none"> <li>Ongoing</li> </ul>
Develop, maintain, and update the traffic signal web map	<ul style="list-style-type: none"> <li>Maintained the traffic signal webmap</li> <li>Completed an annual inventory update of traffic signals, traffic cameras, travel time monitoring devices, roadside units ramp meters, freeway detectors, toll stations, road-weather stations, and dynamic message signs</li> </ul>
Assist in the establishment of foundational transportation technology initiatives with an emphasis on inter-jurisdictional and interagency procedures and agreements	<ul style="list-style-type: none"> <li>Coordination between RTO and AMP highlighting regionally coordinated TMC and integrated corridor management</li> </ul>

Activity 5.3 Deliverables	2021
Annual update to the DRCOG Regional ITS Architecture	<ul style="list-style-type: none"> <li>Annual update continues, completion anticipated by June 2022</li> </ul>
Provide regular updates (as needed) to Regional Transportation Operations and Technology Plan	<ul style="list-style-type: none"> <li>Developing plan in conjunction with architecture update</li> </ul>

## Activity 5.4 Transportation Security Planning

Activity 5.4 Tasks	Activity 5.4 Status
Participate on federal and state agency committees dealing with security and transportation, as requested	<ul style="list-style-type: none"> <li>Assessed multiple cybersecurity alerts forwarded through North Central Region specifically for risks related for transportation operations</li> </ul>
Monitor and respond to federal rulemaking and guidance documents	<ul style="list-style-type: none"> <li>ongoing</li> </ul>
Liaise with the boards of Colorado's North Central All-Hazards Region and the Denver Urban Area Security Initiative	<ul style="list-style-type: none"> <li>Attended eight joint NCR/UASI Board meetings</li> </ul>
Refine roles, establish, and maintain relationships to existing documents and protocols (e.g., incident management plans, evacuation plans, training/exercise planning, and Regional ITS Architecture), and determine further activities with local stakeholders	<ul style="list-style-type: none"> <li>Coordinating with CDOT and regional partners to progress and improve incident management</li> <li>Attending monthly Traffic Incident Management (TIM) Team meetings for four areas within the region.</li> <li>DRCOG is an executive member on the Colorado Standing Committee on First Responders Safety (CSCFRS) that provides policy-level guidance statewide</li> </ul>

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### Activity 5.5 Transportation Safety Planning

Activity 5.5 Tasks	Activity 5.5 Status
Geocode and perform quality checks on crashes in the Denver region that are off the state highway system, as data is made available	<ul style="list-style-type: none"> <li>• Geocoded, performed quality checks, and published Crash 2019 to the Regional Data Catalog</li> <li>• Surveyed stakeholders about a potential “Crash Consortium” that would focus on building in quality from collection through processing</li> </ul>
House the annual crash database of all crashes in the region and disseminate data	<ul style="list-style-type: none"> <li>• 2004-2019 crashes maintained in the Regional Data Catalog</li> </ul>
Prepare crash and safety analyses, as needed	<ul style="list-style-type: none"> <li>• Ongoing; Investigated partnership with local consulting firm and CDOT for improved crash processing</li> </ul>
Respond to requests for information	<ul style="list-style-type: none"> <li>• Ongoing</li> </ul>
Complete the DRCOG Taking Action on Regional Vision Zero	<ul style="list-style-type: none"> <li>• Document adopted June 2020</li> <li>• Started monthly Regional Vision Zero work group to guide implementation of Taking Action on Regional Vision Zero, specifically the plan’s action initiatives</li> <li>• Created 2021 implementation work plan and held monthly meetings of RVZ work group</li> </ul>

Activity 5.5 Deliverables	2021
Documentation of federal safety performance measures and progress for DRCOG region	<ul style="list-style-type: none"> <li>• Included in FAST Act 2020 Safety Target</li> </ul>

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### Activity 5.6 Transportation Technology Planning and Advanced Mobility Partnership

Activity 5.6 Tasks	Activity 5.6 Status
<p>Work with CDOT, RTD, and other stakeholders to implement Mobility Choice Blueprint recommendations and other transportation technology programs, policies, and projects in the region</p>	<ul style="list-style-type: none"> <li>• Developed, shared, and analyzed Data and Data Sharing Survey</li> <li>• Participated in interview with ASU/MAG on DRCOG’s work in transportation technology planning</li> <li>• Participated as Civic Lead in National Science Foundation: Civic Innovation Challenge Phase 1 proposal development with research partners</li> <li>• Monitored transportation technology and advanced mobility projects, pilots, and programs in the Denver region</li> <li>• Developed and updated tactical action tracking matrix for MCB activities</li> <li>• Developed research needs tracker</li> <li>• Participated in Colorado Electric Vehicle Coalition and associated groups including Equity Subcommittee, Micromobility Subcommittee</li> </ul>
<p>Host and coordinate Advanced Mobility Partnership Executive Committee (quarterly), Working Group (monthly), and Steering Committee meetings</p>	<ul style="list-style-type: none"> <li>• Hosted and coordinated 2 AMP Executive Committee, 11 Working Group, 2 AMP Partner Agency coordination meetings and 2 DRCOG Internal AMP Coordination meetings</li> <li>• Presented AMP Annual Update to DRCOG TAC, RTC, and Board</li> <li>• Maintained AMP website</li> </ul>
<p>Host and lead the regional Micromobility Work Group</p>	<ul style="list-style-type: none"> <li>• Hosted 4 quarterly Micromobility Work Group Meetings</li> <li>• Developed Shared Micromobility web page</li> <li>• Participated in Colorado Electric Vehicle Coalition’s Micromobility Program Subgroup and developed statewide program tracker</li> <li>• Developed and distributed statewide shared micromobility program tracking companion survey</li> <li>• Provided technical and policy support to communities implementing and considering shared micromobility programs in the region</li> <li>• Participated in Denver’s micromobility technical working group</li> <li>• Initial research into e-scooter crashes and reporting in the region</li> </ul>

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Activity 5.6 Deliverables	2021
Complete Regional Considerations for Shared Micromobility in the Denver Region document	<ul style="list-style-type: none"> <li>Completed report on Shared Micromobility in the Denver Region: Considerations for local agency implementation and regional consistency in December 2020</li> </ul>
Evaluate shared regional micromobility data platform pilot	<ul style="list-style-type: none"> <li>Managed Ride Report contract and hosted stakeholder check in and information sharing sessions</li> <li>Added three new partners and dashboards into the Ride Report Pilot including the City of Aurora, City of Boulder, and City of Littleton</li> </ul>
Continue implementation activities	<ul style="list-style-type: none"> <li>Completed three discovery reports to support AMP focus area on Data and Data Sharing: Discovery Report, Case Studies on Mobility Data Sharing, and Survey Report on Data and Data Sharing</li> </ul>

### Activity 6.1 Regional Transit/Human Service Transportation Planning and Coordination

Activity 6.1 Tasks	Activity 6.1 Status
Participate with the Denver Regional Mobility and Access Council (DRMAC) and other groups on efforts to improve coordination of human service transportation	<ul style="list-style-type: none"> <li>Ongoing</li> </ul>
Coordinate with DRMAC, DRCOG's Area Agency on Aging (AAA), Local Coordinating Councils (LCCs), and other stakeholders to plan for, develop, and implement regional human service transportation coordination strategies	<ul style="list-style-type: none"> <li>Active coordination with DRCOG's Accountable Health Community team. The AHC is screening and navigating vulnerable populations around the region to identify and address health-related social needs, including transportation</li> </ul>
Work with stakeholders to better leverage and integrate various human service transportation funding sources and activities to increase service and people served	<ul style="list-style-type: none"> <li>Ongoing</li> </ul>
Compile ongoing service data from RTD to use for the travel model, plans, reports, and other activities as needed	<ul style="list-style-type: none"> <li>Ongoing</li> </ul>
Coordinate with RTD, CDOT, and LCCs on the selection, implementation, and performance of FTA grant-funded transit projects within the DRCOG region	<ul style="list-style-type: none"> <li>Ongoing</li> </ul>
Maintain a performance tracking report on TIP funded transit projects	<ul style="list-style-type: none"> <li>Ongoing</li> </ul>
Become the Designated Recipient for FTA 5310 funding for the Denver-Aurora Urbanized Area as a way to better coordinate human service transportation funding and services	<ul style="list-style-type: none"> <li>DRCOG became 5310 DR in early 2020. Governor approved status and FTA approved Program Management Plan</li> </ul>
Begin implementation with CDOT for the new Human Services Set-Aside in the 2020-2023 TIP and FTA 5310 in the Denver-Aurora Urbanized Area for calendar year 2020	<ul style="list-style-type: none"> <li>Administering funding for selected projects. 2020 and 2021 projects are ongoing and/or completed</li> </ul>

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Activity 6.1 Tasks	Activity 6.1 Status
Participate in RTD Accountability Committee oversight process	<ul style="list-style-type: none"> <li>DRCOG is hosting and facilitating 7 meetings each month: 1 full committee and 2 for each of the 3 subcommittees. DRCOG has also enlisted contracted consultant help on an on-call basis</li> <li>Developed policy-, program- and demographics-related research for RTD Accountability Committee</li> </ul>

Activity 6.1 Deliverables	2021
Complete and achieve objectives of Veterans Transportation and Community Living Initiative Grant	<ul style="list-style-type: none"> <li>The project is completed and highlighted as a best practice by the National Center for Mobility Management</li> </ul>
Complete Coordinated Public Transit-Human Services Transportation Plan (Coordinated Plan) (as part of the 2050 RTP development)	<ul style="list-style-type: none"> <li>This plan was updated as part of the 2050 MVRTP</li> </ul>

### Activity 6.2 FasTracks Review and Assessment

Activity 6.2 Tasks	Activity 6.2 Status
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.)	<ul style="list-style-type: none"> <li>No action during this time period</li> </ul>
Based on DRCOG review and assessment of RTD Change Report(s), take further action pursuant to SB-208, and/or amend the 2040 Metro Vision Regional Transportation Plan, if needed	<ul style="list-style-type: none"> <li>No action during this time period</li> </ul>
Provide RTD's annual FasTracks Status Report to the DRCOG Board (due to DRCOG by May 1st)	<ul style="list-style-type: none"> <li>2020 report submitted on time. Due to RTD financial challenges, this report was more comprehensive than previous ones</li> </ul>

Activity 6.2 Deliverables	2021
DRCOG review and assessment of RTD Change Report(s), when/if submitted by RTD. If needed, subsequent SB-208 action and/or 2040 MVRTP amendment	<ul style="list-style-type: none"> <li>No action during this time period</li> </ul>
RTD 2021 FasTracks Annual Status Report	<ul style="list-style-type: none"> <li>RTD provided the 2021 FasTracks Annual Status Report at the May 19 Board Meeting.</li> </ul>

### Activity 6.3 RTD and CDOT Local Government Planning Process

Activity 6.3 Tasks	Activity 6.3 Status
Gather input from local government representatives for RTD's Midrange Financial Plan capital projects and annual service plan changes	<ul style="list-style-type: none"> <li>Two local government meetings held</li> </ul>

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Activity 6.3 Tasks	Activity 6.3 Status
Conduct coordinated public involvement efforts associated with CDOT and RTD products such as the STIP, environmental studies, and other planning activities	<ul style="list-style-type: none"> <li>Ongoing</li> </ul>

### Activity 6.4 RTD Financial Planning

Activity 6.4 Tasks	Activity 6.4 Status
Evaluation of the FasTracks program, including revised capital costs, schedule, and preparation of program management plans for FasTracks corridors	<ul style="list-style-type: none"> <li>RTD Board Directed staff to develop RFP to advance planning for Northwest Rail Starter Service</li> <li>Staff in process of working with local stakeholders and CDOT to develop RFP for consultant services to assist with planning and preliminary engineering efforts</li> <li>DRCOG staff participated in Northwest Rail planning meetings</li> </ul>

Activity 6.4 Deliverables	2021
2019-2024 Mid-term Financial Plan for input into the TIP	<ul style="list-style-type: none"> <li><a href="#">2021-2022 Mid-Term Financial Plan</a> adopted by Board on November 17, 2020 (Note, for this MTFP, RTD covered only two years {2021 and 2022} due to the volatility of the forecasts – we do intend to return to the six-year plan for the next round)</li> </ul>

### Activity 6.5 RTD Base System Planning

Activity 6.5 Tasks	Activity 6.5 Status
Continue oversight of base system planning process	<ul style="list-style-type: none"> <li>Ongoing</li> </ul>
Other assorted engineering, planning, and environmental activities	<ul style="list-style-type: none"> <li>Ongoing</li> </ul>



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Activity 6.5 Tasks	Activity 6.5 Status
<p>Conduct Transportation Transformation Comprehensive Plan to:</p> <ul style="list-style-type: none"> <li>○ Provide guidance on future RTD services</li> <li>○ Compliment FasTracks</li> <li>○ Chart a course that optimizes existing and future FasTracks infrastructure and determine what other future investments are needed</li> <li>○ Plan will provide a vision for RTD's existing rail system</li> <li>○ Focus on ancillary services such as multi-modal first/last mile connections</li> <li>○ Maximize FasTracks investments</li> <li>○ Address staffing-related challenges</li> <li>○ Evaluate long-term parking needs</li> <li>○ Determine location and nature of future bus and rail maintenance facilities</li> <li>○ Consider fleet electrification</li> <li>○ Review RTD's boundaries</li> <li>○ Use of technical software (Remix and additional transit modeling) to aid in the System Optimization Plan and Mobility Plan for the Future deliverables</li> </ul>	<ul style="list-style-type: none"> <li>• Ongoing</li> </ul>

Activity 6.5 Deliverables	2021
System Optimization Plan	<ul style="list-style-type: none"> <li>• Ongoing, Plan was delayed due to the pandemic</li> </ul>
Mobility Plan for the Future	<ul style="list-style-type: none"> <li>• Ongoing, Plan was delayed due to the pandemic</li> </ul>

## Activity 6.6 Transit Facility Planning

Activity 6.6 Tasks	Activity 6.6 Status
Prepare quarterly Park-n-Ride use reports	<ul style="list-style-type: none"> <li>• Park-n-Ride utilization reports were suspended due to manpower issues related to pandemic</li> </ul>
Prepare biannual Park-n-Ride user distribution geocoding and mapping	<ul style="list-style-type: none"> <li>• RTD did not conduct the user distribution survey due to pandemic</li> </ul>
Participate in local jurisdiction land-use planning processes for station areas	<ul style="list-style-type: none"> <li>• Ongoing</li> </ul>
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	<ul style="list-style-type: none"> <li>• Ongoing</li> </ul>
Regional Transit Oriented Development (TOD) Opportunity Study	<ul style="list-style-type: none"> <li>• Inventoried and reviewed past transit-oriented land use plans and studies dating back to FasTracks approval</li> <li>• Ongoing coordination between DRCOG staff and RTD's TOD group</li> </ul>



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Activity 6.6 Tasks	Activity 6.6 Status
Monitor and evaluate transit priority implementation in the region	<ul style="list-style-type: none"> <li>Working with City &amp; County of Denver to establish TSP along Federal Blvd. and the East Colfax corridor</li> <li>Working with City of Aurora to establish TSP on Havana Street</li> </ul>
Mobility Hub planning at priority locations identified in partnership among RTD, CDOT, and DRCOG	<ul style="list-style-type: none"> <li>Ongoing</li> </ul>
Benchmark Transit Oriented Development (TOD) activity in annual status report and FasTracks Quality of Life study	<ul style="list-style-type: none"> <li><a href="#">2020 Quality of Life</a> study finalized October 2020</li> </ul>
Provide ongoing TOD education and outreach	<ul style="list-style-type: none"> <li>Ongoing</li> </ul>
Support facility planning	<ul style="list-style-type: none"> <li>No updates in this reporting period</li> </ul>

Activity 6.6 Deliverables	2021
Mobility Hub plan(s)	<ul style="list-style-type: none"> <li>Planning completed and ongoing for several mobility hubs along the I-25 corridor.</li> </ul>
Regional TOD Opportunity Study	<ul style="list-style-type: none"> <li>No activity this reporting period due to pandemic</li> </ul>

### Activity 6.7 FasTracks Program Management and Planning Assistance

Activity 6.7 Tasks	Activity 6.7 Status
Prepare FasTracks Change Report(s) for DRCOG	<ul style="list-style-type: none"> <li>No activity</li> </ul>

Activity 6.7 Deliverables	2021
FasTracks Change Report	<ul style="list-style-type: none"> <li>No activity during this time frame due to pandemic</li> </ul>

### Activity 7.1 Develop and Maintain Information Systems

Activity 7.1 Tasks	Activity 7.1 Status
Develop, maintain, and update data, tools, applications, and visualizations that allow internal and external users to explore and consume information	<ul style="list-style-type: none"> <li>Data updated in the Regional Data Catalog and enterprise SDE</li> <li>Visualization: Community profiles</li> <li>Tools: MVRTP interactive comment maps and CMPI webmap</li> </ul>
Create and maintain free and open regional data to support the analysis needs of researchers, entrepreneurs and other regional stakeholders (e.g. Regional Data Catalog)	<ul style="list-style-type: none"> <li>ongoing</li> </ul>
Maintain an internal data repository	<ul style="list-style-type: none"> <li>ongoing</li> </ul>

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Activity 7.1 Tasks	Activity 7.1 Status
<p>Coordinate the acquisition of regional datasets through the Denver Regional Data Consortium, Denver Regional Aerial Photography Projects, Regional Planimetric Data Projects and related initiatives (e.g. Regional Land Use Land Cover Projects, Regional Lidar Projects)</p>	<ul style="list-style-type: none"> <li>• Issued two surveys to partners (requirements gathering for 2022 imagery; satisfaction for 2020 imagery project)</li> <li>• Held two Data Acquisition meetings</li> <li>• Held two DRDC meetings</li> <li>• Completed successful (funded) grant application to the Colorado Water Conservation Board for the 2020 Regional Land Cover Project</li> <li>• Implemented new quality control process using student volunteers</li> <li>• Produced summary document to close out 2020 imagery project</li> <li>• Solicited Request for Proposals (RFPs) for 2022 imagery project</li> <li>• Developed new approach to online hosting of imagery products</li> <li>• Initiated contracting and invoicing for Regional Land Use Land Cover project</li> <li>• Initiated product development and quality control processes for Regional Planimetric Data Project</li> </ul>
<p>Perform GIS analysis for decision-support and performance measurement</p>	<ul style="list-style-type: none"> <li>• Developed data and performed analysis in support of Metro Vision performance measures</li> </ul>
<p>Maintain internal processes and infrastructure in support of application and tool development</p>	<ul style="list-style-type: none"> <li>• Began planning for cloud migration of documents, databases, and applications</li> <li>• Standardized python/anaconda environment</li> </ul>
<p>Complete the local data collection and regional dataset creation efforts</p>	<ul style="list-style-type: none"> <li>• Data request sent in mid-January</li> <li>• Collection completed in March</li> <li>• Individual datasets completed throughout the second half of reporting period (e.g., parcels, bike counts, etc.)</li> </ul>
<p>Develop an agency-wide DRCOG data privacy policy</p>	<ul style="list-style-type: none"> <li>• Policy was added to the footer of drcog.org. The Data Management Committee launched. An article about this work was featured in a Data Consortium newsletter</li> </ul>
<p>Maintain inventory of protected data and perform audits to ensure data is properly handled</p>	<ul style="list-style-type: none"> <li>• Formed a Data Management Committee and began populating a protected data inventory</li> </ul>
<p>Conduct agency-wide cloud storage data migration</p>	<ul style="list-style-type: none"> <li>• Prepared for testing</li> </ul>

Activity 7.1 Deliverables	2021
<p>2020 DRAPP deliverables</p>	<ul style="list-style-type: none"> <li>• Completed the DRAPP 2020 project and produced a handout, wrap-up presentation, and satisfaction survey</li> </ul>

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Activity 7.1 Deliverables	2021
2020 Denver Regional Planimetric Project deliverables	<ul style="list-style-type: none"> <li>Project kicked off in February (executed a contract with Kucera International)</li> <li>Project on-schedule: two of seven delivery groups complete, remainder anticipated to be completed by mid-2022</li> </ul>
DRCOG Data Privacy Policy	<ul style="list-style-type: none"> <li>See above</li> </ul>
2020 Regional Lidar Project deliverables	<ul style="list-style-type: none"> <li>Flights are complete and data has been submitted for quality control performed by USGS</li> </ul>

### Activity 7.2 Develop and Maintain Land Use Modeling and Forecasting Systems

Activity 7.2 Tasks	Activity 7.2 Status
Collect, compile, and purchase data in support of land use modeling	<ul style="list-style-type: none"> <li>Completed the 2021 annual data collection for gathering information from local governments (including zoning, building, and open space data)</li> <li>Updated LEHD dataset (employment)</li> <li>Continued purchasing building permit and commercial property data to better understand scheduled development</li> <li>Continued compiling approved plans and plats from local governments for incorporation in land use model forecasts (scheduled development)</li> <li>Initiated new subscription agreement secure proprietary access to database of for-sale residential approvals and construction activity</li> </ul>
Partner with the Department of Local Affairs (DOLA) to pilot the use of DRCOG's modeling and forecasting systems to assist local governments in their review of DOLA's long-range, county-level forecasts (produced annually)	<ul style="list-style-type: none"> <li>Ongoing. Delays in release of 2020 Census data delayed DOLA 2020 estimates and subsequent forecast updates</li> </ul>
Coordinate with local governments to maintain and improve UrbanSim model inputs that rely on local plans, policies, priorities, and changes to development patterns (e.g., development constraints, scheduled development)	<ul style="list-style-type: none"> <li>Documented previous coordination with local governments on how their feedback informed the small-area forecast in 2050 MVRTP appendix</li> </ul>

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Activity 7.2 Tasks	Activity 7.2 Status
Pursue improvements and enhancements UrbanSim model, as needed, including coordination with other MPOs and peer agencies on improvements to the Census Block model	<ul style="list-style-type: none"> <li>Worked with consultant to evaluate ability of model to handle more detailed control totals, scoped additional improvements to control total handling</li> <li>Pursued peer advice on UrbanSim model operations during and after the Consortium for Scenario Planning Conference</li> <li>Participated in socioeconomic model webinars with a cohort of mostly UrbanSim model users hosted by MAG</li> <li>Documented and standardized the series of steps and scripts needed to update input data for the UrbanSim block model</li> <li>Initiated process to segment control totals and update model specification, estimation, and calibration</li> </ul>
Develop and maintain economic forecasting tools in support of UrbanSim	<ul style="list-style-type: none"> <li>Ongoing</li> </ul>
Support work groups associated with forecasting, modeling, and planning efforts detailed in the UPWP	<ul style="list-style-type: none"> <li>Ongoing</li> </ul>

Activity 7.2 Deliverables	2021
Technical memo detailing process to use DRCOG land use and forecasting tools to assist with local review of state forecasts	<ul style="list-style-type: none"> <li>No activity during this reporting period (awaiting preliminary forecast update from State Demography Office)</li> </ul>

### Activity 7.3 Transportation Modeling and Forecasting

Activity 7.3 Tasks	Activity 7.3 Status
Collect, compile, and purchase data in support of transportation modeling and forecasting	<ul style="list-style-type: none"> <li>Compiled traffic count data</li> <li>Extracted speed and travel time data from Inrix for select locations and facility groups</li> </ul>
Provide travel model data results in support of special requests	<ul style="list-style-type: none"> <li>Data outputs provided to local governments</li> <li>Focus Model provided to consultants for 8 corridor studies (e.g. NEPA and PELs)</li> </ul>
Continue efforts to optimize and streamline Focus, DRCOG's regional travel demand forecasting model, for faster and more accurate results available to a wider range of users	<ul style="list-style-type: none"> <li>Ongoing</li> </ul>
Coordinate with RPD to align Focus with UrbanSim model inputs	<ul style="list-style-type: none"> <li>Ongoing efforts, including regular coordination meetings, to align Focus and UrbanSim</li> </ul>
Update the Commercial Vehicle Travel Model with greater delineations and trip rates by vehicle type	<ul style="list-style-type: none"> <li>CV Model component was updated with distinct trip rates for Light, Medium, and Heavy-Duty vehicles</li> </ul>
Collaborate with CDOT in developing the statewide activity-based (ABM) model	<ul style="list-style-type: none"> <li>Held monthly meetings with CDOT and the statewide model consultant. Shared files and ideas</li> </ul>

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## FY 2021 Unified Planning Work Program Activity

October 1, 2020 through September 30, 2021

Activity 7.3 Tasks	Activity 7.3 Status
Work with RTD to incorporate results of their 2015 system-wide on-board survey and new fare structure into the Focus model	<ul style="list-style-type: none"> <li>Route and station boarding data was used to modify model components</li> </ul>
Work with RTD to evaluate methods for improving Focus mode-choice model component	<ul style="list-style-type: none"> <li>Held monthly meetings with RTD and their model update consultant</li> </ul>
Explore/Evaluate uses and benefits of different model output visualization tools	<ul style="list-style-type: none"> <li>Prepared several new select link and TAZ travel flow maps</li> </ul>
Evaluate implementing the Caliper Highway/Transit Master Network (for maintaining different projects) or other model process enhancements	<ul style="list-style-type: none"> <li>Ongoing</li> </ul>
Maintain a cohesive storage area to keep all travel model related files including documentation, scenario analysis, calibrations, and inputs and outputs for RTP Cycle runs	<ul style="list-style-type: none"> <li>Ongoing</li> </ul>
Participate on CDOT-led Statewide Household and other Travel Surveys (work and DRCOG's contribution will be split between FY2021 and FY2022)	<ul style="list-style-type: none"> <li>Participating closely with CDOT, as DRCOG is a funding partner (\$2 million of CPG over FY21/22)</li> </ul>
Plan and participate in DEN travel surveys and data collection	<ul style="list-style-type: none"> <li>Preliminary discussions held. May imbed within Statewide Survey elements</li> </ul>
Conduct modeling research and documentation	<ul style="list-style-type: none"> <li>Ongoing</li> </ul>

Activity 7.3 Deliverables	2021
Complete updated and validated Focus model runs and output data files used for air quality conformity determinations and other studies	<ul style="list-style-type: none"> <li>Focus V 2.2.2 completed and used for 2050 MVRTP</li> </ul>
DEN travel survey and data collection results	<ul style="list-style-type: none"> <li>Survey ongoing, initial data collection delayed due to COVID-19</li> </ul>

### Activity 7.4 Maintain Transportation and Related Data

Activity 7.4 Tasks	Activity 7.4 Status
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	<ul style="list-style-type: none"> <li>Ongoing</li> </ul>
Collect and process traffic counts from CDOT and all member governments/consultants, perform quality control, and add to the traffic count database	<ul style="list-style-type: none"> <li>2020 counts obtained and are in process of being incorporated into our databases</li> </ul>
Continuously update the DRCOG website traffic count map to show count data for the last three years	<ul style="list-style-type: none"> <li>Completed</li> <li>Enhanced the traffic counts map by adding additional charting functionality and adding data to display trends through COVID-19</li> </ul>
Improve methods for calculations of greenhouse gas and air quality measures	<ul style="list-style-type: none"> <li>Ongoing</li> </ul>
Collect transit ridership, Park-n-Ride lot user data, and other transit-related data from RTD	<ul style="list-style-type: none"> <li>Ongoing</li> </ul>

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Activity 7.4 Tasks	Activity 7.4 Status
Obtain bridge and pavement condition data from CDOT and local governments, as needed	<ul style="list-style-type: none"> <li>• CDOT provided initial updates on annual data tracked for bridge and pavement condition FAST Act performance measures</li> </ul>
Transfer state highway crash data into the DRCOG linear reference system and geocode crashes on non-state roadways	<ul style="list-style-type: none"> <li>• Geocoded crashes for 2019 data on non-state roadways</li> </ul>
Edit the transportation information database per plan amendment and update various travel model networks staging respectively	<ul style="list-style-type: none"> <li>• Ongoing</li> </ul>

### Activity 7.5 Regional Transportation Dataset/Data Platform

Activity 7.5 Tasks	Activity 7.5 Status
Convene a regional work group to identify needs, issues, and opportunities for a regional transportation dataset and data platform	<ul style="list-style-type: none"> <li>• Working with AMP Working Group and partner agency staff to continue conversations around regional data governance and tools</li> <li>• Piloting Ride Report micromobility data sharing project with partner agencies through work with the Regional Micromobility Work Group</li> <li>• Continued work on Data and Data Sharing including planning a multi-day workshop with the Harvard Kennedy School planned for October 2021</li> </ul>
Explore options for collecting and managing transportation data	<ul style="list-style-type: none"> <li>• Participating in Open Mobility Foundation and SAE Mobility Data Collaborative</li> <li>• Developed use cases for addition of carsharing to MDS-based shared data platform</li> <li>• Case study on micromobility data sharing in the Denver region started with Ride Report</li> </ul>
Prepare recommendations	<ul style="list-style-type: none"> <li>• Ongoing</li> </ul>

Activity 7.5 Deliverables	2021
Regional transportation data platform discovery report	<ul style="list-style-type: none"> <li>• Completed (1) Discovery Report, (2) Case Studies on Regional Mobility Data Sharing Reports and (3) Survey Report</li> </ul>
Regional transportation data platform roadmap	<ul style="list-style-type: none"> <li>• Ongoing; three-part challenge identification and use case development workshop series, delayed to Oct/Nov 2021 due to pandemic travel restrictions. Platform feasibility concept paper development planned in 2022.</li> </ul>