

AGENDA
REGIONAL TRANSPORTATION COMMITTEE
Tuesday, September 18, 2018
8:30 a.m.
1001 17th St.
1st Fl. Aspen Conference Room

1. Call to Order
2. Public Comment
3. July 17, 2018 RTC Meeting Summary
(Attachment A)

ACTION ITEMS

4. Discussion on confirmation of Aviation special interest seat on the Transportation Advisory Committee (TAC).
(Attachment B) Jacob Riger
5. Discussion on TIP Regional Share Project Review Panel representatives.
(Attachment C) Todd Cottrell

INFORMATIONAL ITEMS

6. Briefing on Active Transportation Plan.
(Attachment D) Emily Lindsey
7. Update on Mobility Choice.
(Attachment E) Jacob Riger – Kaia Nesbitt/Carla Perez, HDR

ADMINISTRATIVE ITEMS

8. Member Comment/Other Matters
9. Next Meeting – October 16, 2018
10. Adjournment

Persons in need of auxiliary aids or services, such as interpretation services or assisted listening devices, are asked to contact DRCOG at least 48 hours in advance of the meeting by calling (303) 480-6744.



ATTACH A

ATTACHMENT A

MEETING SUMMARY REGIONAL TRANSPORTATION COMMITTEE Tuesday, July 17, 2018

MEMBERS PRESENT:

Debra Perkins-Smith (Alternate)	Colorado Department of Transportation
Karen Stuart	Colorado Department of Transportation
Shannon Gifford	Colorado Department of Transportation
Ed Peterson	Colorado Department of Transportation
Douglas Rex	Denver Regional Council of Governments
Jim Dale (Alternate)	Denver Regional Council of Governments
Herb Atchison (Chair)	Denver Regional Council of Governments
Bob Fifer	Denver Regional Council of Governments
David Beacom	Denver Regional Council of Governments
Jeff Kullman	Other
Ken Lloyd	Regional Air Quality Council
Bob Broom	Regional Transportation District
David Genova	Regional Transportation District
Natalie Menten	Regional Transportation District

Others Present:

Wynn Shaw (Alternate)	Denver Regional Council of Governments
Ron Papsdorf (Alternate)	Denver Regional Council of Governments
Bill Van Meter (Alternate)	Regional Transportation District

Public: Holly Buck, Steven Marfitano - Felsburg Holt & Ullevig; Rachel Sharp, Graham;
Brian Welch, RTD

DRCOG Staff: Todd Cottrell, Jacob Riger, Steve Cook, Brad Calvert, Mark Northrop, Emily Lindsey,
Matthew Helfant

Call to Order

Chair Herb Atchison called the meeting to order at 8:35.

Public Comment

There was no public comment.

Summary of June 19, 2018 Meeting

The summary was accepted, with the correction to the spelling of Natalie Menten.

Referring to the discussion on legislative issues at the last meeting (in page 5 of the summary), Ms. Menten suggested clarifying that local governments can support ballot initiatives but are financially limited to \$50.

ACTION ITEMS

Discussion on amendments to the FY 2018-2021 Transportation Improvement Program (TIP)

Todd Cottrell presented the five proposed amendments to the 2018-2021 TIP.

- **1997-084 RTD Preventive Maintenance: Transit Vehicle Overhaul and Maintenance**
Add funding
- **1999-052 RTD State of Good Repair**
Add funding
- **2008-111 FasTracks Eagle P-3 Corridors (Gold and East Line)**
Add and shift funding
- **2012-108 RTD Capital Improvements: Bus and Facilities Funding**
Add funding
- **2018-014 I-25 Capacity Improvements: Castle Rock to El Paso County Line**
Temporarily switch state funding sources

Bob Fifer MOVED to recommend to the Board of Directors amendments to the *2018-2021 Transportation Improvement Plan* (TIP). The motion was seconded and passed unanimously.

Discussion on SB18-001 Multimodal Options Fund

Ron Papsdorf discussed several options on how DRCOG will accommodate new revenue anticipated from SB18-001, specifically the Multimodal Transportation Options Fund. Two General Fund transfers will be made to the Multimodal Fund in FY 2018 (\$74.25m) and FY 2019 (\$22.5m). Of the total amount (\$96.75m), 15% will be further distributed to state projects (\$14.51m), while 85% will go to local projects (\$82.24m).

SB18-001 directs the Transportation Commission to establish a distribution formula based on population and transit ridership to allocate local project funds. Funding recipients must provide a match equal to the amount of award. The Commission is expected to start the allocation process in the fall.

DRCOG anticipates receiving about 60% of local project Multimodal funds (~\$38m in FY18 and \$12m in FY19). Staff prepared three options on how to distribute the DRCOG area share of the local project Multimodal funding:

- Mr. Papsdorf reviewed staff's recommendation:
 - to include the Multimodal distribution in the 2020-2023 TIP process and split between the Regional (20%) and Subregional shares (80%); and to separate out the process for the non-MPO area of DRCOG (with ~1% taken off-the-top). The recommendation is consistent with 2018-2021 TIP Waiting List Protocol, provides opportunity to leverage Federal TIP funding, and synergizes with other Regional/Subregional project submittals.
- Mr. Papsdorf also reviewed two other potential options for consideration.
 - To fund eligible projects from the 2018-2021 TIP Waiting List with anticipated FY 2018 Multimodal Local Projects funds and roll over FY 2019 funds to the 2020-2023 TIP (less 1% for non-MPO area)
 - To treat as a new "set-aside" program and run a separate call for projects after the 2020-2023 TIP Process is complete.

Comments

- David Genova asked for clarification on the potential set-aside option; would it incorporate the 20% Regional /80% Subregional split? Mr. Papsdorf said it was proposed as a completely new set-aside with no splits, similar to current set-aside programs.
- Mr. Genova was concerned about attaching new or future new monies from a new funding source to a new, untested TIP process that limits to a 20%Regional / 80%Subregional split.
- Mr. Atchison noted adding a new funding source would mean modifying the TIP Policy and was concerned about the time constraint to do so. Mr. Papsdorf said the RTC version of the action

draft of the new 2020-2023 TIP Policy (which is the next agenda item for approval at this meeting), incorporates the Multimodal funding in the document. He noted the July 9 Transportation Advisory Committee (TAC) approved revising the action draft to add the Multimodal funding into its recommendation to the RTC.

- David Beacom asked for clarification on how the Transportation Commission determines the distribution formula for areas with little transit service. Mr. Papsdorf said analysis considers transit measures, including other components, such as 'disadvantaged', etc. that look at the entirety of each of the 15 statewide TPRs (not county by county or city by city).
- Debra Perkins-Smith asked why the new set-aside option being considered would not occur until after the TIP process. Mr. Papsdorf said concurrent management of a new set-aside process, plus the new dual model TIP process, would be difficult logistically for DRCOG and the subregions. Instead, the proposed set-aside option would have a call for projects next summer in 2019.
- Ms. Perkins-Smith asked if the Subregions have discussed Multimodal funding, and if not, will it delay the TIP process. Mr. Papsdorf said most subregions have had discussions on multimodal projects. When asked if each Subregion could incorporate the Multimodal funding into their allotted 3 projects, Mr. Papsdorf said yes.
- Mr. Papsdorf noted the total amount available to Regional projects would increase to about \$31 million, if RTC and Board approve staff's recommendation to wrap the 2020-2023 TIP 20% Regional Share (\$21 million) with the anticipated Multimodal funding (~\$10 million).
Ms. Perkins-Smith asked if, with the addition of the Multimodal funding, would CDOT be eligible for an additional project in the 2020-2023 TIP. Mr. Papsdorf said it would not.
- Bob Broom asked if there are reporting requirements in SB-01 that would make it challenging to mix funding. Mr. Papsdorf said significant tracking and reporting requirements are already adhered to and did not anticipate any undue burden to include Multimodal funds.

Herb Atchison MOVED to recommend staff's recommendation to the Board of Directors amending the draft *Policy on Transportation Improvement Program (TIP) Preparation, Procedures for Preparing the 2020-2023 TIP* to include anticipated SB18-001 FY 2018 and FY 2019 Multimodal Transportation Options Fund Local Projects resources (less 1% for the DRCOG non-MPO areas) in the regional (20%) and subregional (80%) shares. The motion was seconded.

- Debra Perkins-Smith asked for clarification that this action is a one-time event and does not set precedence for all new sources of funding. Chair Atchison said that was correct.

The motion passed with one opposed.

Discussion on 2020-2023 TIP Policy document

Todd Cottrell presented the final action draft of the 2020-2023 TIP *Policy on Transportation Improvement Program (TIP) Preparation, Procedures for Preparing the 2020-2023 TIP*. He reviewed highlights of the document, which guides the new Dual Model TIP process for both Regional and Subregional funding shares. This new TIP process will be incorporated as a pilot program in the next TIP cycle in FY 2020-2023.

If approved, the Regional Share Call for Projects is anticipated to be open from July 30 through September 21, 2018. Projects will be under review from September 2018 through January 2019. The Subregional Share Call for Projects is anticipated to be open from February through June 2019. TIP adoption is anticipated in August 2019.

Comments

- There was brief discussion on the new \$4 million Human Service Transportation TIP set-aside.

- Re: page 11, #3 (*Projects Requiring an Intergovernmental Agreement (IGA) with CDOT or RTD*), Natalie Menten asked for clarification on why a sponsor for a project that requires contracting with CDOT or RTD must agree to use the applicable CDOT or RTD IGA without revision.
 - Bill Van Meter said he assumes this is applicable if it's as agreed to and promulgated by RTD legal staff. He said he understood the context of this specific IGA refers to the contractual obligation on projects once project selection is completed (i.e., between project sponsor, local government and either CDOT or RTD).
 - Staff clarified the intent of this section is expedite the obligation of federal funds by using standardized contracts.
 - Wynn Shaw said she also understood that *before* a project's submission to DRCOG, CDOT needs to provide agreement with the project.
 - Chair Atchison said this applies to a project involving RTD as well.
 - Debra Perkins-Smith clarified the project submission agreement is not an IGA but is an agreement in principal.
 - Natalie Menten said this section, as written, could potentially limit RTD, although Mr. Genova said he was comfortable with it, per this discussion.
- Chair Atchison said RTD and CDOT representatives have been a part of all the Subregion meetings and are responsible to review and comment on all IGAs before they are completed.
- Re: page 16, Table 3 (*Project Categories Eligible for Regional Share Funding*), Debra Perkins-Smith suggested adding the Multimodal Transportation Options Funds with a description of all eligibilities (4th bullet description on page 8). Staff will add the MMOF information to Table 3 for the July 18 Board meeting.

Bob Fifer MOVED to recommend to the Board of Directors the draft *Policy on Transportation Improvement Program (TIP) Preparation, Procedures for Preparing the 2020-2023 TIP*, with the modification in Table 3 on page 16 to add the Multimodal Transportation Option Funds description. The motion was seconded and passed unanimously.

Discussion on amending the FY 2018-2019 Unified Planning Work Program (UPWP)

Todd Cottrell presented the updates and amendments to the FY 2018-2019 UPWP that was adopted in July 2017. The UPWP is a two-year MPO work program outlining planning and work activities for participating entities. Proposed changes are shown in the track-changes version attached in agenda and include:

- Procedural: minor modifications to tasks and activities
- Financial: updates/clarifications to Appendix A finance tables
- Schedule: minor updates to several deliverable completions dates in Activity descriptions and in Appendix B

Ed Peterson MOVED to recommend to the Board of Directors amendments to the *FY 2018-2019 Unified Planning Work Program*. The motion was seconded and passed unanimously.

INFORMATIONAL ITEMS

Briefing on RTD's Regional Bus Rapid Transit (BRT) Study

Matthew Helfant introduced Holly Buck, Felsburg Holt & Ullevig, to present an overview of preliminary findings of RTD's Regional Bus Rapid Transit (BRT) Study. RTD has worked with FHU over the last six months to identify and prioritize corridor-based or fixed-guideway BRT projects

within RTD's service area. The study will be conducted over an 18-month period, starting in February 2018 and should be completed in the summer of 2019.

Project website www.rtd-denver.com/BRT-study.shtml

Update on draft Active Transportation Plan

Emily Lindsey presented an overview of highlights of the upcoming draft of the first-ever DRCOG Active Transportation Plan and described plan development activities achieved by the Active Transportation Stakeholder Committee, consultants, and staff over the past six months.

ADMINISTRATIVE ITEMS

Member Comment/Other Matters

- Chair Atchison and the committee recognized RTC member Ken Lloyd on his retirement scheduled for the end of July. Ken is the longtime executive director of the Regional Air Quality Council and a former DRCOG employee. Ken has served with DRCOG for over 20 years on a variety of DRCOG committees.

The meeting ended at 10:20 a.m. The next meeting is scheduled for August 14, 2018.

ATTACH B

ATTACHMENT B

To: Chair and Members of the Regional Transportation Committee

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

Meeting Date	Agenda Category	Agenda Item #
September 18, 2018	Action	4

SUBJECT

This item recommends confirming the aviation special interest seat on the Transportation Advisory Committee (TAC) nominated by Board Chair Herb Atchison as part of the TAC membership annual review.

PROPOSED ACTION/RECOMMENDATIONS

Staff recommends confirming the TAC aviation special interest nomination made by Board Chair Herb Atchison.

ACTION BY OTHERS

N/A

SUMMARY

The Memorandum of Agreement between DRCOG, CDOT and RTD, adopted July 10, 2001, established the TAC to assist the Board of Directors and the Regional Transportation Committee (RTC) by reviewing the work of the transportation planning process, advising on methods of planning and implementation, and working with staff to develop policy options and, as appropriate, recommendations to the RTC. Per this agreement, the DRCOG Board of Directors adopted the TAC committee description and composition, and operating procedures documented in the [Transportation Planning in the Denver Region](#) document.

At its June meeting, the RTC confirmed six of the seven TAC special interest seats. At that time, staff noted that, due to a forthcoming retirement affecting the aviation seat, the Board Chair would nominate a new member for that seat. Accordingly, the Board Chair has nominated Robert Olislagers, CEO of the Centennial Airport. His appointment would become effective with the first TAC meeting following RTC's confirmation.

PREVIOUS DISCUSSIONS/ACTIONS

[June 19, 2018 RTC](#)

PROPOSED MOTION

Move to confirm the Transportation Advisory Committee aviation special interest nomination made by Board Chair Herb Atchison.

ATTACHMENT

N/A

ADDITIONAL INFORMATION

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

ATTACH C

ATTACHMENT C

To: Chair and Members of the Regional Transportation Committee

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

Meeting Date	Agenda Category	Agenda Item #
September 18, 2018	Action	5

SUBJECT

2020-2023 *Transportation Improvement Program* (TIP) Regional Share Project Review Panel.

PROPOSED ACTION/RECOMMENDATIONS

DRCOG staff recommends approval of the representatives to the Regional Share Project Review Panel to review and recommend Regional Share applications for funding in the Regional Share Call for Projects to the 2020-2023 TIP.

ACTION BY OTHERS

[August 27, 2018](#) – TAC recommended approval.

SUMMARY

The adopted [2020-2023 TIP Policy](#) states that a Project Review Panel will be formed to discuss and prioritize all eligible Regional Share project submittals after all projects have been evaluated by DRCOG staff. The panel will consist of one technical staff representative from each of the eight subregions, one CDOT representative, one RTD representative, and up to five regional subject matter experts.

As the subregional forums have met over the past several months, each has indicated or made a recommendation for their review panel representative (and alternate in some cases). These representatives include:

Subregion/CDOT/RTD Representatives		
Adams County	Kent Moorman	Regional Transportation Engineer, City of Thornton
Arapahoe County	Travis Greiman	Public Works Director, City of Centennial
Boulder County	Kathleen Bracke	GO Boulder Manager, City of Boulder <i>Alternate: Megan Davis, Deputy City Manager, City of Louisville</i>
City/County of Broomfield	Sarah Grant	Transportation Manager, City/County of Broomfield
City/County of Denver	Justin Begley	Project Manager II, City/County of Denver
Douglas County	Art Griffith	Capital Improvements Projects Manager, Douglas County <i>Alternate: John Cotten, Public Works Director, City of Lone Tree</i>
Jefferson County	Steve Durian	Transportation & Engineering Director, Jefferson County
SW Weld County	Phil Greenwald	Transportation Planner, City of Longmont <i>Alternate: Dawn Anderson, Development Review Manager, Weld County</i>
CDOT	Tim Kirby	Multimodal Planning Branch Manager, CDOT DTD
RTD	Brian Welch	Senior Manager, Planning Technical Services, RTD

Subject Matter Experts

In addition to a representative from each of the eight subregional forums, CDOT, and RTD, the Project Review Panel will include *up to five* subject matter experts. DRCOG staff is recommending the panel include three subject matter experts to keep the panel at a reasonable size. These experts are to be considered a leader in the Denver region in their field and are not specific to any geographic area or local jurisdiction of the metro region.

Nominees for Subject Matter Expert Representative	
Maria D'Andrea	Director of Public Works, City of Englewood (<i>suggestion from Arapahoe County forum</i>)
Chris Fasching	Principal, Felsburg, Holt & Ullevig (<i>suggestion from Arapahoe County forum</i>)
	President, Colorado Motor Carriers Assn.
Greg Fulton	<i>Alternate: Tracy Sakaguchi, Director of State Issues & Special Events Coordinator, Colorado Motor Carriers Assn.</i>
Piep van Heuven	Denver Director, Bicycle Colorado
Steve McCannon	Mobile Sources Program Director, Regional Air Quality Council

DRCOG staff recommends Piep van Heuven, Greg Fulton (with Tracy Sakaguchi as an alternate), and Steve McCannon as the three subject matter experts to the Project Review Panel.

PREVIOUS DISCUSSIONS/ACTIONS

N/A

PROPOSED MOTION

Move to recommend to the Board of Directors the list of Regional Share Project Review Panel representatives.

ATTACHMENTS

N/A

ADDITIONAL INFORMATION

If you need additional information, please contact Todd Cottrell, Senior Transportation Planner, Transportation Planning and Operations at 303-480-6737 or tcottrell@drcoq.org.

ATTACH D

ATTACHMENT D

To: Chair and Members of the Regional Transportation Committee

From: Emily Lindsey, Transportation Planner
303-480-5628 or elindsey@drcog.org

Meeting Date	Agenda Category	Agenda Item #
September 18, 2018	Informational	6

SUBJECT

Information and update on the DRCOG Active Transportation Plan

PROPOSED ACTION/RECOMMENDATIONS

N/A

ACTION BY OTHERS

N/A

SUMMARY

DRCOG is developing the region's first-ever Active Transportation Plan (ATP). Alongside the Active Transportation Stakeholder Committee (ATSC), the project team kicked off the planning process at the end of 2017 and conducted stakeholder and public outreach in spring and summer 2018.

In June, the project team held five workshops across the region with local government staff and members of the project team conducted outreach on Bike to Work Day at ten stations across the region and recently analyzed survey results to learn more about barriers to walking and bicycling across the region. In August, the project team received comments from the ATSC regarding the planning framework and draft regional active transportation corridors.

Staff anticipates releasing a draft of the ATP in October 2018, following the Board of Directors' work session. There will be a 30-day public comment period and the project team will revise the document based on feedback submitted received. Staff anticipates presenting the final draft to DRCOG's Transportation Advisory Committee and Regional Transportation Committee at their November meeting and to the Board of Directors at their December meeting.

PREVIOUS DISCUSSIONS/ACTIONS

[July 17, 2018](#)

PROPOSED MOTION

N/A

ATTACHMENT

Staff presentation

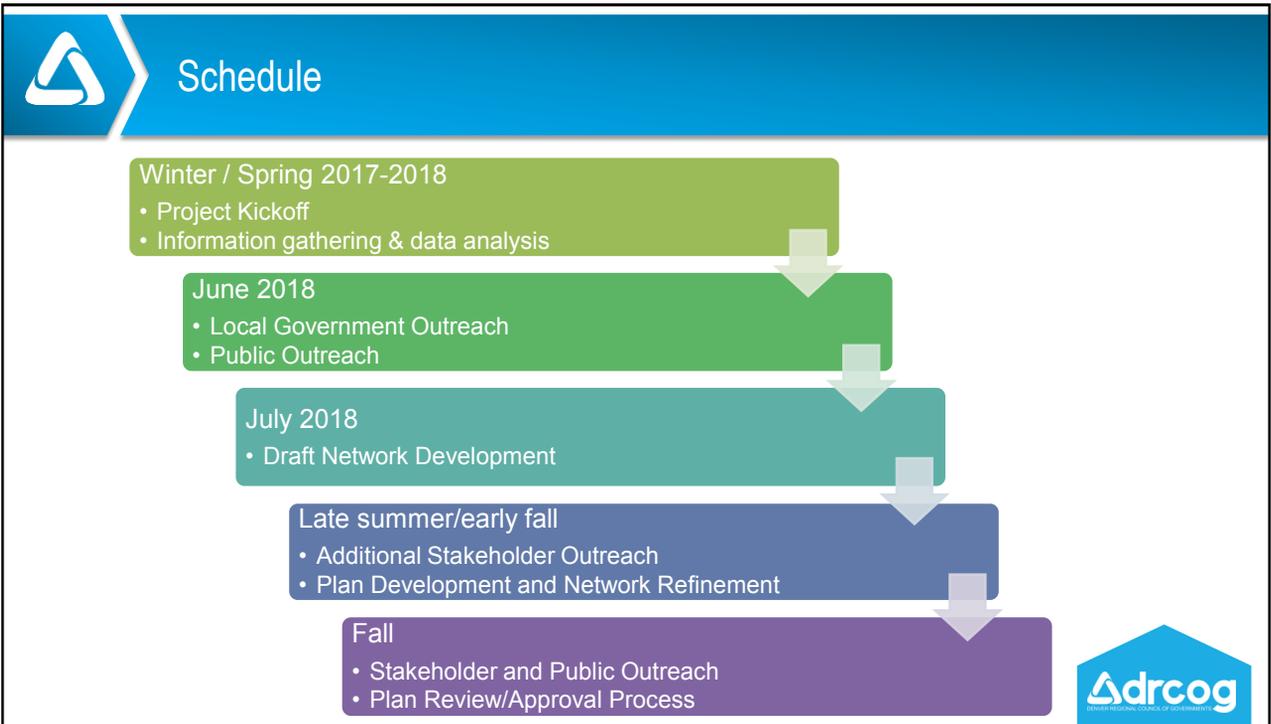
ADDITIONAL INFORMATION

If you need additional information, please contact Emily Lindsey, Transportation Planner, at 303-480-5628 or elindsey@drcog.org.



Presented by:
Emily Lindsey
September 18, 2018

DRCOG Active Transportation Plan Update





Outreach Highlights (to date)

55 participants from
31 stakeholder agencies at
5 meetings across the region in June

412 responses to an online survey
from members of the public

10 stations on Bike to Work Day and
233 responses to engagement activity



Who are we planning for?



4% of people are highly confident
12% of people are somewhat confident
59% of people are interested but concerned

DRCOG Survey of Residents About Active Transportation (2018)





Plan Structure



- Introduction + Objectives**
- Regional Active Transportation Network**
- Tools for Local Implementation**
- Taking Action – Strategic Initiatives**
- Appendices**
 - County profiles
 - Engagement summary
 - Survey results
 - Crash report
 - Local plan inventory



Introductory Components

- Outlined **objectives** and **performance measures**.
- Highlighted **local examples** throughout the DRCOG region.
- Describes **connection to Metro Vision**.
- Introduced the **regional active transportation network concept**.





Planning Framework Themes

- Crashes and safety
- Bicycle and pedestrian activity
- Connectivity of local and regional active transportation networks
- Comfort and usability
- Access to/from transit
- Equitable access to active transportation options




Regional Active Transportation Network Components

Focus Area	Description	What does it mean for the ATP?
Pedestrian focus area	Areas with a high concentration of existing or potential pedestrian activity.	Efforts to improve pedestrian safety and convenience in these areas will help the region achieve Metro Vision goals related to livable communities, safety, health, and transit integration.
Short-trip opportunity zones	Areas with a high concentration of short trips (2 miles or less).	The average bicycle trip distance in the Denver region is 1.8 miles. Areas with a large number of trips 2 miles or less hold potential for converting car trips to bicycle trips , which will help fulfill a key Metro Vision goal (reduce SOV mode share).
Regional active transportation network	High-comfort routes that connect significant regional destinations and may serve longer distance bike trips, as well as local walking and biking trips.	These routes are intended to allow safe and comfortable access to regional destinations for everyone , supporting Metro Vision's goals related to creating a connected multimodal region and vibrant regional economy. The regional network should facilitate cross-jurisdictional collaboration toward a common vision for a regional active transportation network. Local facilities that feed into the regional network are critical to connect residents to the regional network and will be recognized in the ATP.






Highlights from Tools for Local Implementation



Identified planning and design approaches for: bicycle infrastructure, pedestrian infrastructure, and supporting elements for active transportation.



New and **Emerging** – covers topics like e-bikes, Dockless mobility, etc.

Traditional – covers topics like accessibility, complete streets, etc.



Local and Regional Strategic Initiatives

In line with **Metro Vision planning framework**, identified:

- Options for **Regional Organizations**
 - Collaboration
 - Education and Assistance
 - Investments
- Options for **Local Organizations**
 - Collaboration
 - Policies, Plans & Regulations
 - Investments

Highlighted relevant **case studies** too!





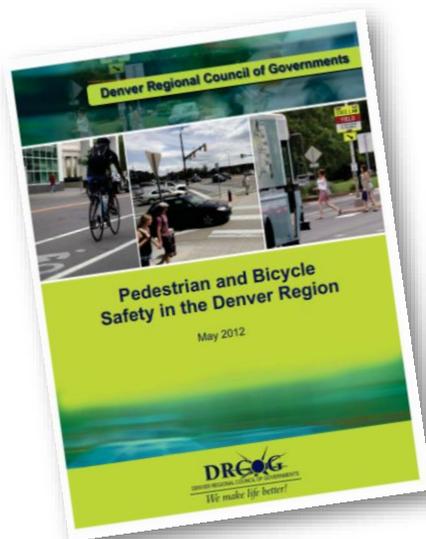
County Profiles

As part of existing conditions assessment, looked at each County-level geography to:

- Understand **planning context**
- Highlight and incorporate **local plans and policies**
- Examine **existing facilities** and **walking and bicycling activity**.
- Report on active transportation **crashes**.



Bicycle and Pedestrian Crash Report – Coming soon!





QUESTIONS?

ATTACHE

ATTACHMENT E

To: Chair and Members of the Regional Transportation Committee

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

Meeting Date	Agenda Category	Agenda Item #
September 18, 2018	Information	7

SUBJECT

Briefing on the Mobility Choice Blueprint project.

PROPOSED ACTION/RECOMMENDATIONS

N/A

ACTION BY OTHERS

N/A

SUMMARY

The Mobility Choice Blueprint is a collaborative strategy to help the metro Denver region identify how to best prepare for the rapidly changing technology that is revolutionizing transportation mobility. As a reminder, Mobility Choice is a unique planning and funding partnership of CDOT, DRCOG, RTD, and the Denver Metro Chamber. The 2030 Blueprint will analyze travel trends and technologies in the region, explore and evaluate various technologies and their implications for mobility, align transportation investments of multiple public agencies, and create new planning and implementation partnerships.

Since the last Mobility Choice Blueprint briefing to RTC in April, project stakeholders and the consultant team have held several workshops to define 2030 scenarios for testing and analysis, conducted extensive public outreach, hosted global thought leaders and other subject matter experts, and begun to prepare initial content for the 2030 Blueprint plan document. The project also now has a dedicated website:

<http://www.mobilitychoiceblueprintstudy.com/>.

At the September RTC meeting, staff from HDR, the project's lead consultant, will provide an update on the Mobility Choice Blueprint project, process, and schedule. Mobility Choice briefings will continue to be provided at regular intervals throughout the planning process to DRCOG's committees and Board.

PREVIOUS DISCUSSIONS/ACTIONS

[April 17, 2018](#) - RTC

PROPOSED MOTION

N/A

ATTACHMENT

1. Consultant presentation

ADDITIONAL INFORMATION

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



MOBILITY CHOICE BLUEPRINT

UNIFIED VISION

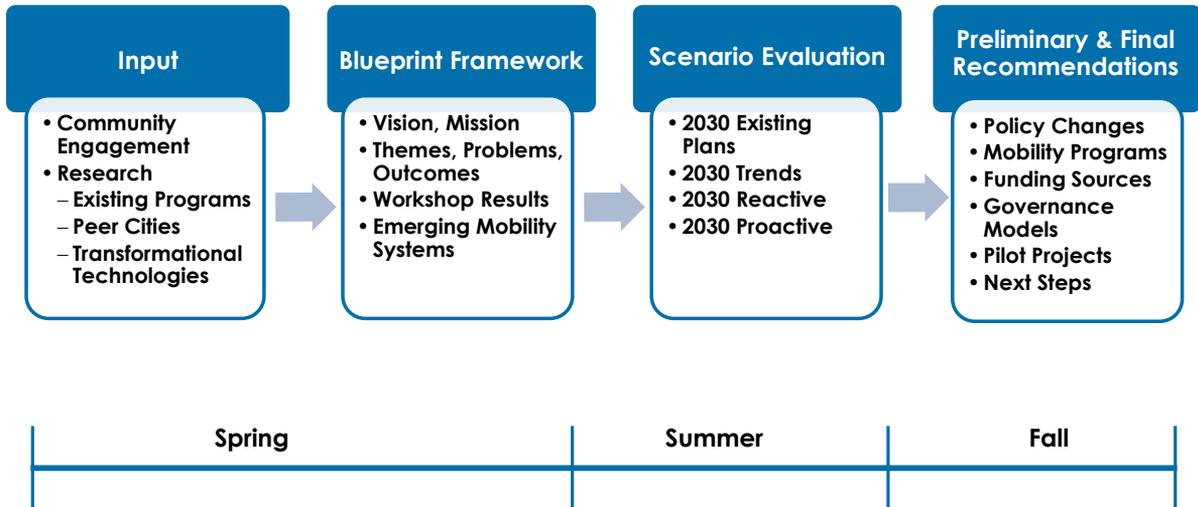
A partnership of public and private organizations focused on changing how we move – and making the Denver metro area a better place to work and live.



ATTACHMENT 1



MCB PROCESS OVERVIEW



EMERGING MOBILITY SYSTEMS



On-Demand Mobility

- Ridehailing
- Microtransit
- Car Sharing
- Bike sharing
- Mobility as a Service

Traveler Information and Payment

- Mobile Transit App
- Intermodal Trip Planner App
- Mobile Travel Incentives App

Transportation Systems Optimization

- V2X
- Active Travel Demand Management
- Integrated Corridor Management
- Smart Parking

Freight and Delivery

- Courier Services
- Driverless Delivery
- Drone Delivery
- 3D Printing

Vehicle Technology

- Autonomous Vehicles Levels 1-5
- Electric Drive-train
- Battery Technology

MOBILITY CHOICE BLUEPRINT VISION

Our metropolitan region employs a full array of flexible technology and services to maximize access to mobility choices connecting people of all ages, incomes and abilities to jobs, recreation, healthcare, amenities and other daily activities, enhancing and protecting our quality of life now and in the future.

MOBILITY CHOICE BLUEPRINT MISSION

The metropolitan agencies will collaborate, in partnership with community, nonprofit, and private sector leaders, to carefully consider a range of effective and efficient solutions to the challenges and opportunities presented by emerging mobility technologies. We will provide recommendations to encourage the most effective technologies and approaches, maximizing mobility to meet our long-term goals of enhanced quality of life and increased economic vitality across the metropolitan region.

THEMES

- Safety
- Sustainable Mobility
- Funding and Finance
- Human Experience
- Infrastructure
- Governance
- Data
- System Efficiency



THEMES, PROBLEMS & OUTCOMES

Theme	Problem Statement	Outcome
Safety	Sanctity of life and safety from personal injury and property damage must remain the primary force for new technology operational designs.	Connected, autonomous, shared and electric mobility operate safely.
Sustainable Mobility	Technology enables a much more diverse set of mobility options for consumers resulting in different kinds of pressures for private-sector and public-sector services, facilities and infrastructure.	Emerging technology transportation options sustain the system long-term.
Infrastructure	New approaches and designs are needed to flexibly and proactively integrate technologies into transportation infrastructure.	New mobility systems integrate with existing and future infrastructure. New mobility systems cost no more than anticipated.

THEMES, PROBLEMS & OUTCOMES

Theme	Problem Statement	Outcome
Human Experience	A disconnect could result between the human experience and transportation technology applications that left unchecked, could further disenfranchise mobility challenged populations and could disrupt our livable spaces.	Mobility systems improve community livability and quality of life.
Governance	A forum is lacking to plan for and implement regional infrastructure that supports technology advances.	Regional transportation agencies, the private sector, and nongovernmental organizations develop policies, programs, and pilot projects to deliver a preferred mobility future for the metropolitan region.

THEMES, PROBLEMS & OUTCOMES

Theme	Problem Statement	Outcome
System Efficiency	The regional network of transportation services and facilities is based on the travel demands and trip-making decisions of a different economic environment that began more than 50 years ago. The existing system must be made more efficient through reasonable and coordinated integration of appropriate technologies.	Technology integration improves reliability, lowers costs and reduces travel times.

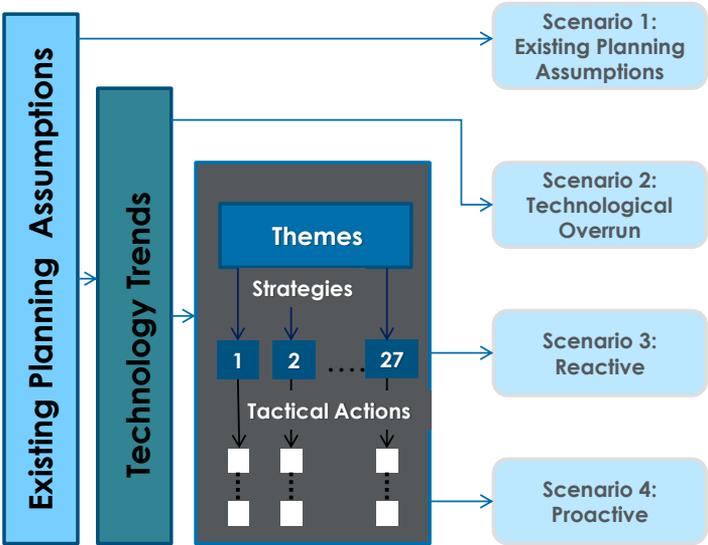
THEMES, PROBLEMS & OUTCOMES

Theme	Problem Statement	Outcome
Funding and Finance	Travel options enabled by technology will further increase the gap between needs and available funds.	New funding and financing of mobility systems improves equity and use of public resources.
Data	Definition of the “right data” that can be utilized to optimize system operations and performance is important to all public sector and private sector entities. Management and security of that data, and the ability to share information among suppliers of facilities and services to enhance and optimize transportation system performance is a critical need.	Sources and uses of data that enable, monitor, manage and modify mobility systems are protected, shared and preserved across all modes of travel and throughout all parts of the region and state.

THEMES, STRATEGIES AND ACTIONS

	Themes	Strategies	Actions
Workshop Outputs	7	27	123
Refinement	8	15	34

PROCESS FLOW FOR THE DEVELOPMENT OF SCENARIOS



EXAMPLE: TACTICAL ACTION #3

- **Create PPPs to establish transit service in underserved areas to reduce service gaps and partner with:**
 - Transportation Network Companies (TNCs)
 - Micro-transit services
 - Mobility-as-a-Service providers
- **Consider connections to senior housing, mobility-disadvantaged neighborhoods, healthcare facilities and similar locations**

- | | |
|----------------------|----------------|
| • Type: | Program |
| • Difficulty: | Medium |
| • Investment: | \$6-15M |
| • Transects: | Urban/Suburban |
| • Time to Implement: | < 1 Year |

EXAMPLE: TACTICAL ACTION #21

- **Establish a Mobility Technology Clearinghouse:**
 - Coordinate Pilot Projects throughout the Region
 - Pool funding
 - Coordinate Agency staff
 - Provide single point of contact
 - Coordinate technology in CIP projects
 - Employ process to prioritize corridors
 - Facilitate partnerships
 - Monitor performance and cost tracking

- | | |
|----------------------|------------|
| • Type: | Program |
| • Difficulty: | Easy |
| • Investment: | < \$0.5 M |
| • Transects: | All/Region |
| • Time to Implement: | < 1 Year |

EXAMPLE: TACTICAL ACTION #22

- **Establish a Regional Data Platform that will:**
 - Consolidate multiagency data into single repository with joint access
 - Establish policy standards for data sharing for inter-operability and security
 - Create policy(s) to ensure inter-operability of infrastructure and software
 - Promote open and well-documented APIs

- | | |
|----------------------|------------|
| • Type: | Program |
| • Difficulty: | Medium |
| • Investment: | \$ 2 - 5 M |
| • Transects: | All/Region |
| • Time to Implement: | < 1 Year |

EXAMPLE: TACTICAL ACTION #27

- **Fund and engage in Pre-development activities with affected cities to begin implementation of an Integrated Corridor Management (ICM) Pilot Project in a key metro corridor.**

- | | |
|----------------------|----------------|
| • Type: | Pilot Project |
| • Difficulty: | Medium |
| • Investment: | \$ 2 - 5 M |
| • Transects: | Urban/Suburban |
| • Time to Implement: | 1-3 Years |

- ICM combines two primary concepts:
 - Active Management
 - Modal Integration of Institutional, Operational and Technical elements

PROCESS FLOW FOR THE DEVELOPMENT OF SCENARIOS

