

AGENDA

WORKING GROUP
Tuesday, April 7, 2020
2:30 p.m.

Remote Meeting

Please register and join [via GoToWebinar](#).

- 1. Welcome and Introductions**
- 2. AMP Executive Committee Report**
Brian Welch, Senior Manager of Planning Technical Services, RTD
- 3. Priority Actions Next Steps (Data, Shared Mobility, System Operations)**
Emily Lindsey, Transportation Technology Strategist, DRCOG
- 4. Funding Opportunity Discussion: FTA Accelerating Innovative Mobility**
Melanie Choquette, Capital Planning and Programming Lead, City and County of Denver
- 5. Informational Briefings**
61 AV Demonstration Project
Brian Welch, Senior Manager of Planning Technical Services, RTD

Emerging Mobility Impact Study
Ashley Nylen, Assistant Director of Mobility Technology, CDOT

Colorado Smart Cities Alliance Deployment Board
Tyler Svitak, Executive Director, Colorado Smart Cities Alliance
- 6. Next Meeting: May 5, 2020**



WORKING GROUP
Tuesday, March 3, 2020
2:30 p.m.

Denver Regional Council of Governments
1001 17th St.
Aspen Conference Room

MEETING SUMMARY

Attendees

Steve Cook, DRCOG
Paul DesRocher, RTD
Jim Doyle, Mobilitynext
Matt Duncan, RTO Representative, City of
Lakewood
Bill Haas, FHWA
Dorothy Jones, Denver Metro Chamber of
Commerce
Dave Levy, Mobilitynext
Emily Lindsey, DRCOG
Lily Lizarraga, CDOT
Greg MacKinnon, DRCOG
Christelle Matsuda, CDOT

Wes Marshall, UTAC, CU Denver
Danny Montoya, RTO Representative, Douglas
County
Ron Papsdorf, DRCOG
Carson Priest, TAC Representative, Smart
Commute Metro North
Chris Primus, HDR
Flo Raitano, DRCOG
Emily Silverman, Parsons
Tyler Svitak, Colorado Smart Cities Alliance
Brian Welch, RTD
Kate Williams, DRMAC
Tom Worker-Braddock, City of Aurora

1. Welcome and Introductions

Emily Lindsey welcomed attendees to the Advanced Mobility Partnership Working Group, participants went around the room and introduced themselves.

2. Election of Officers Discussion

Ms. Lindsey introduced the nomination for Chair and Vice-Chair of the AMP Working Group and introduced a motion to elect the Chair (Brian Welch, RTD) and Vice-Chair (Ashley Nylen, CDOT). The motion was approved unanimously. Mr. Welch, the newly elected Chair, ran the remainder of the meeting.

3. MCB Tactical Action Prioritization and Discussion

Following the group discussion about Mobility Choice Blueprint Tactical Actions at their January and February meetings, the group reviewed the results of the in-person and online prioritization. Mr. Welch introduced the top-scoring tactical actions and facilitated the discussion around

Working Group stakeholder priority tactical actions to bring to the AMP Executive Committee at their March meeting.

Stakeholders discussed two higher-scoring actions (top bucket) that perhaps wouldn't be recommended as the top priority items as agencies that are conducting work on these items are doing so just fine. These items were tactical actions 7.2 and 5.3. Mr. Welch noted he would relay this information to the Executive Committee.

Stakeholders also identified some tactical actions that scored in the middle that related to some of the higher-scoring tactical actions that they felt should be moved up in terms of AMP priorities. These items were tactical actions 2.6, 3.5 and 3.1. There was also discussion about continuing to work on projects related to automated vehicles.

Discussion coalesced on the importance of prioritizing foundational tactical action items, with the understanding that all of the tactical action items are important, the AMP will need just a few to prioritize work on beginning in 2020 as the partnership. Agencies with projects currently underway would, of course, continue their projects. Mr. Welch will present the results of the prioritization exercise and the AMP Working Group discussion at the AMP Executive Committee meeting on March 4.

4. Technology Data Scrum

Lily Lizarraga provided an overview of CDOT's upcoming Technology Data Scrum. Ms. Lizarraga invited participants to weigh in on some initial transportation data-related questions using an interactive polling software. Following the survey, Ms. Lizarraga introduced the scrum, which will be hosted with support from the Harvard Kennedy School and include participants from public agency stakeholders in Colorado. The working group reviewed the results of the survey and had a conversation about challenges in datasharing. Ms. Lizarraga noted CDOT will work with the project team planning the event and return to the working group for additional feedback as they plan the event.

5. Regional Transportation Operations Data and Existing Conditions

Greg MacKinnon, manager of DRCOG's Regional Operations and Technology program provided some existing regional datasets that offered insights to better understand the existing operations situation across the region. He provided links to download the information including: arterial travel time corridors, ramp meters, CCTV inventory, travel time device inventory and traffic signals. He noted that staff is working to improve the data so it is easier to update, share and use.

6. Regional Transportation Operations and Technology Set-Aside

Mr. MacKinnon provided a brief overview of the Regional Transportation Operations and Technology (RTO&T) Set-Aside of the DRCOG Transportation Improvement Program (TIP). This set-aside includes around \$13 million and DRCOG plans to issue a Call for Projects in Spring 2020.



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Mr. MacKinnon provided an overview of the application process, eligibility requirements, eligible project types, funding requirements, timeline and evaluation criteria. He highlighted the updated evaluation criteria weighting based on the AMP Working Group and RTO Working Group input provided last month.

7. Next Meeting

Mr. Welch thanked everyone for participating in the meeting. The next meeting is April 7, 2020 at DRCOG. Mr. Welch adjourned the meeting.

DRAFT



DATE: April 7, 2020
TO: AMP Working Group
FROM: Brian Welch, Senior Manager of Planning Technical Services, RTD
SUBJECT: AMP Executive Committee
ACTION: Information

SUMMARY

In support of the AMP, the AMP Executive Committee meets quarterly to collaborate on transportation technology-related efforts in the Denver region and advise the AMP Working Group. At the AMP Executive Committee's March meeting the group:

- Elected Paul Ballard (RTD) as Chair and Sophie Shulman (CDOT) as Vice Chair.
- Was briefed on general AMP-related updates.
- Reviewed and approved initial tactical action priorities proposed by the AMP Working Group and provided several comments:
 - CDOT recommended including a focus on EV charging stations.
 - RTD requested staff from all of the partner agencies take a deeper look at scope, timelines, outcomes, resource needs and coordination for the top-tier tactical actions and bring that back to the Executive Committee at their next meeting.
- Was briefed on CDOT's upcoming Technology Data Scrum.
- Was briefed on DRCOG's upcoming Regional Transportation Operations and Technology set-aside program.

The next AMP Executive Committee meeting is scheduled in June.

ATTACHMENT(S)

N/A

ADDITIONAL INFORMATION

For additional information, please contact Brian Welch, Senior Manager of Planning Technical Services, RTD at brian.welch@rtd-denver.com.

DATE: April 7, 2020
TO: AMP Working Group
FROM: Emily Lindsey, Transportation Technology Strategist, DRCOG
SUBJECT: Priority Actions Next Steps
ACTION: Discussion

SUMMARY

The AMP Executive Committee discussed priority tactical actions at their March meeting and approved initial tactical action priorities proposed by the AMP Working Group. The Executive Committee requested staff from all of the partner agencies and AMP Working Group stakeholders take a deeper look at scope, timelines, outcomes, resource needs and coordination for the top-tier tactical actions and bring that back to the Executive Committee at their next meeting in June.

Staff assessed the top-tier tactical actions and sorted them into three categories: data and data sharing, shared mobility and system operations. Funding is an underlying theme across focus areas. At the April AMP Working Group partner agencies and stakeholders will discuss next steps to identify draft outcomes, timeline, source needs and coordination effort outlines for each of these focus areas.

ATTACHMENT(S)

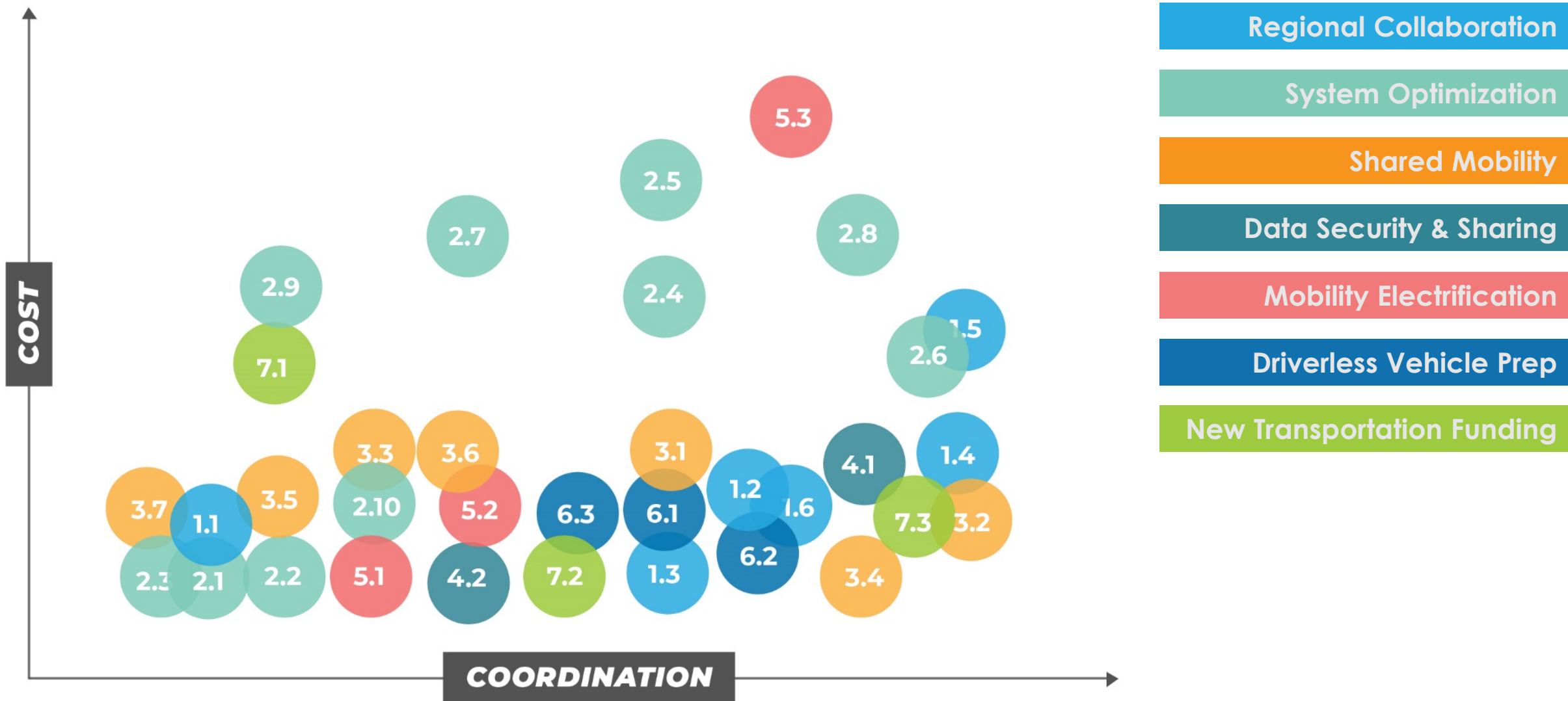
1. Tactical Actions by Focus Area
2. Level of Investment/Coordination by Tactical Action

ADDITIONAL INFORMATION

For additional information, please contact Emily Lindsey, Transportation Technology Strategist, DRCOG, at 303-480-5628 or elindsey@drcog.org.

Action ID	Tactical Action	DRCOG	RTD	CDOT	ALL
2.4	Implement transit priority on all major bus corridors		X		
2.5	Implement traffic signal control technology on all major regional arterial corridors	X			
2.6	Pilot integrated corridor management on ten arterial corridors	X			
2.8	Coordinate traffic management centers systems and operations			X	
5.3	Transition government fleets to electric and other zero-emission vehicles	X	X	X	
3.1	Develop a universal mobility app for trip planning and payment		X		
3.4	Implement curbside management standards	X	X		
3.5	Pilot neighborhood-scale mobility hubs	X	X		
4.1	Establish a regional mobility data platform	X	X	X	X
4.2	Establish data sharing requirements for private sector roadway users	X			

Level Of Investment & Coordination



DATE: April 7, 2020
TO: AMP Working Group
FROM: Emily Lindsey, Transportation Technology Strategist, DRCOG
SUBJECT: Funding Opportunity Discussion: FTA Accelerating Innovative Mobility
ACTION: Discussion

SUMMARY

The AMP Working Group will discuss a current FTA funding opportunity. Melanie Choquette, Capital Planning and Programming Lead with the City and County of Denver, will introduce the funding opportunity and partners will discuss potential opportunity for partnerships.

To learn more about the FTA Accelerating Innovative Mobility funding opportunity, please see FTA's Notice of Funding Opportunity [here](#).¹ There is a [webinar](#) on April 2, 2020 at 11am MST if you're interested in learning more prior to the AMP Working Group meeting.²

ATTACHMENT(S)

N/A

ADDITIONAL INFORMATION

For additional information, please contact Emily Lindsey, Transportation Technology Strategist, DRCOG, at 303-480-5628 or elindsey@drcog.org.

¹ <https://www.transit.dot.gov/funding/applying/notices-funding/accelerating-innovative-mobility-aim-challenge-grants-2020-notice>

²

https://connectdotcqp1b1.connectsolutions.com/content/connect/c1/7/en/events/event/private/1085833432/1263072599/event_landing.html?connect-session=breezbreezxa2grtgkwd7ddquu&sco-id=1262670055& charset =utf-8

DATE: April 7, 2020
TO: AMP Working Group
FROM: Emily Lindsey, Transportation Technology Strategist, DRCOG
SUBJECT: Informational Briefings
ACTION: Information

SUMMARY

In support of the Advanced Mobility Partnership, the AMP Working Group will have several informational briefings to inform stakeholders of transportation technology-related efforts in the Denver region. The April meeting will have three informational briefings.

Briefing 1: 61 AV Demonstration Project

Brian Welch from RTD will present the demonstration project results from the 61 AV demonstration project, which concluded in August 2019. RTD published demonstration project results in a [report](#), which may be reviewed prior to the presentation at the AMP Working Group.¹

Briefing 2: Emerging Mobility Impact Study

Ashley Nylen from CDOT's Office of Innovative Mobility will present the results of CDOT's 2019 Emerging Mobility Impact Study. Please see the following memo for additional information (Agenda Item 5B).

Briefing 3: Colorado Smart Cities Alliance Deployment Board

Tyler Svitak from the Colorado Smart Cities Alliance will present on their initiative, the Deployment Board. The Colorado Smart Cities Alliance spent two years researching and evaluating challenges experienced by their member governments and identified six challenge areas for private partners to submit proposed solutions for.²

ADDITIONAL INFORMATION

For additional information, please contact Emily Lindsey, Transportation Technology Strategist, DRCOG, at 303-480-5628 or elindsey@drcog.org.

¹ <https://www.rtd-denver.com/sites/default/files/files/2019-09/61AV-project-recap-aug2019.pdf>

² <https://coloradosmart.city/idea-submission-2/>



DATE: April 7, 2020
TO: Advanced Mobility Partnership Working Group
FROM: Ashley Nylen, Assistant Director of Mobility Technology, CDOT
SUBJECT: Senate Bill (SB) 19-239 Emerging Mobility Impact Study
ACTION: Information

SUMMARY

The Colorado Department of Transportation (CDOT) in partnership with the Colorado Energy Office (CEO) conducted the Emerging Mobility Impact Study as directed by Senate Bill (SB) 19-239, passed in May 2019. CDOT staff will give a brief review of the study during the upcoming April Advanced Mobility Partnership (AMP) meeting.

CDOT and CEO were tasked with convening a group of appointed statewide stakeholders (the Working Group) to conduct the study. The Working Group provided industry insight and policy recommendations, which was integrated into the Final SB 19-239 report.

The intent of SB 19-239 was to better understand how Colorado's transportation behaviors are changing with the increase of emerging technologies, specifically in regards to Transportation Network Companies (TNCs) and e-commerce real-time package delivery. Furthermore, the study strived to understand how these new mobility and delivery platforms continues to expand in volume leading to increased vehicle miles travelled (VMT), which continues to impact the transportation network.

The Working Group was charged with evaluating impacts of the emerging mobility providers and providing feedback on a range of potential fee structures on motor vehicles used for commercial purposes, as defined by SB 19-239, that could be used to encourage the use of zero emission vehicles (ZEVs) and shared rides in emerging mobility providers.

ATTACHMENT(S)

1. [Link](#) to the Emerging Mobility Impact Study Website

ADDITIONAL INFORMATION

For additional question on SB 19-239, please contact Lily Lizarraga, Innovative Mobility Project Coordinator, CDOT, at 303-757-9789 or lily.lizarraga@state.co.us.