



ADVANCED
MOBILITY
PARTNERSHIP

AGENDA

WORKING GROUP
Tuesday, May 4, 2021
2:30 p.m.

Remote Meeting

DRCOG is hosting this meeting remotely (no in-person option).

Please register and join the meeting using this link:

<https://zoom.us/join/zoom/register/tJcuceGgrjgpE90oLHvObQIP4Df1O9yPFSI4>

- 1. Welcome and Introductions**

- 2. AMP Focus Area: System Operations**
Regional Transportation Operations Plan: Visioning
Greg MacKinnon, DRCOG

Transit Priority in the Denver Region
Doug Monroe, RTD
Li-Wei Tung, RTD

- 3. Discussion**
Future of Work
Rachel Bolin, CDOT

- 4. AMP Focus Area Updates**

- 5. Partner Agency Updates/Other Matters**
 - a. RAISE Grants
 - b. MUTCD Comment Period
 - c. Other Matters

- 6. Next Meeting: June 1, 2021**



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WORKING GROUP
Tuesday, April 6, 2021
2:30 p.m.

Denver Regional Council of Governments
held remotely via Zoom

MEETING SUMMARY

Attendees

Rachel Bolin, CDOT
Thomas Bradley, Colorado State University
Rob Colosimo, HNTB
Zorica Cvijovic, University of Wyoming
Jay Decker, City and County of Denver
Amy Ford, CDOT
William Haas, FHWA
Will Johnson, HDR
Michael King, CDOT
Anne Kuechenmeister, Michael Baker Int'l
Eva LaDow, FHWA
Christina Lane, Jefferson County
Adam Lind, City of Arvada
Emily Lindsey, DRCOG
Greg MacKinnon, DRCOG
Carrie Makarewicz, CU Denver
Wes Marshall, UTAC Representative

Selena Martinez, Denver Metro Clean Cities
Doug Monroe, RTD
Lisa Nguyen, Denver International Airport
Gabiella Perkins, Denver Metro Clean Cities
Chris Primus, HDR
Flo Raitano, DRCOG
Tegan Rice, RTD
Justin Schmitz, City of Lone Tree
Josh Schwenk, DRCOG
Stephanie Seki, Populus
Emily Silverman, Parsons
Robert Spotts, DRCOG
Lisa Streisfeld, CDOT
Li-Wei Tung, RTD
Jonathan Wade, RTD
Melanie Ward, City of Centennial

1. Welcome and Introductions

Emily Lindsey welcomed attendees to the Advanced Mobility Partnership (AMP) Working Group and announced attendees.

2. Executive Committee Report

Ms. Lindsey provided a brief report from the March AMP Executive Committee meeting. The committee is made up of the executive leadership of the four AMP partner agencies which meets quarterly. At their March meeting, they elected Debra Johnson, RTD as Chair and Doug Rex, DRCOG as Vice Chair. They reviewed the activities of the Working Group and received a briefing on the discovery phase of the Data and Data Sharing focus area and reviewed progress on the other two focus areas.



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3. Informational Briefings

Civic Innovation Challenge Proposal

Carrie Makarewicz, University of Colorado Denver presented on the Valverde Movement Project: Undesigning the redline and reimagining mobility investments to equitably link jobs, affordable housing, and services.¹ This is a collaborative project between UC Denver, University of Denver, and several community organizations and government agencies which is competing for a \$1 million grant through the National Science Foundation's Civic Innovation Challenge. The project intends to create a flexible mobility system to address the access issues in the Valverde neighborhood of Denver. The project team is evaluating a number of smart mobility solutions along with the digital infrastructure necessary for residents to access these modes. Researchers are currently working with neighborhood residents as well as experts throughout the country to develop the \$1 million budget, should the grant be awarded. The eventual goal is to expand a successful pilot to other neighborhoods throughout the Denver region.

CSU Mobility and Energy Project

Thomas Bradley, Colorado State University (CSU) presented on CSU's research into vehicle electrification, specifically on costs of public charging to consumers and battery end of life processes.² Researchers used crowdsourced data through plugshare.com to estimate the costs of charging around the country. There is a large variation in costs based on a number of factors including the type of charger and model of charging (per hour, per session, etc). Costs of public charging are often significantly higher than residential electricity costs. Research into end of life procedures for electric vehicle batteries found that most are still under warranty and get refurbished and returned to automotive applications. Research shows that there is not a current issue of batteries ending up in landfills or otherwise causing environmental concerns. While lithium-ion batteries could also go to a second life application (remanufactured for a new use), or through a materials recovery process to recapture valuable component materials, research shows few second life applications for automotive batteries and low business potential for materials recovery at this time. Mr. Bradley ended with several recommendations for improving battery end of life process in Colorado.

4. AMP Focus Area Updates

Rachel Bolin, CDOT, updated the Working Group on progress made by the Shared Mobility focus area, specifically progress on the Connected Colorado shared trip planning and ticketing app. The three prototype partners are ECO Transit (Eagle County), Clear Creek County Transit, and The Lift (Winter Park). An RFP will be released in the next few months for a vendor.

¹ <https://campuscitypartnerships-dugis.hub.arcgis.com/pages/nsf-civic>

² <https://drive.google.com/file/d/1F14bk1Gisx42UiOGfP4nmrybaus0SeA4/view>





Greg MacKinnon, DRCOG, updated members on the System Operations focus area. The annual technology device inventory has been completed. Discussions on inter-jurisdictional coordination on smart technology deployment are ongoing through the Regional Transportation Operations Working Group. The group is also coordinating with CDOT Incident Management to set up an Integrated Corridor Management workshop.

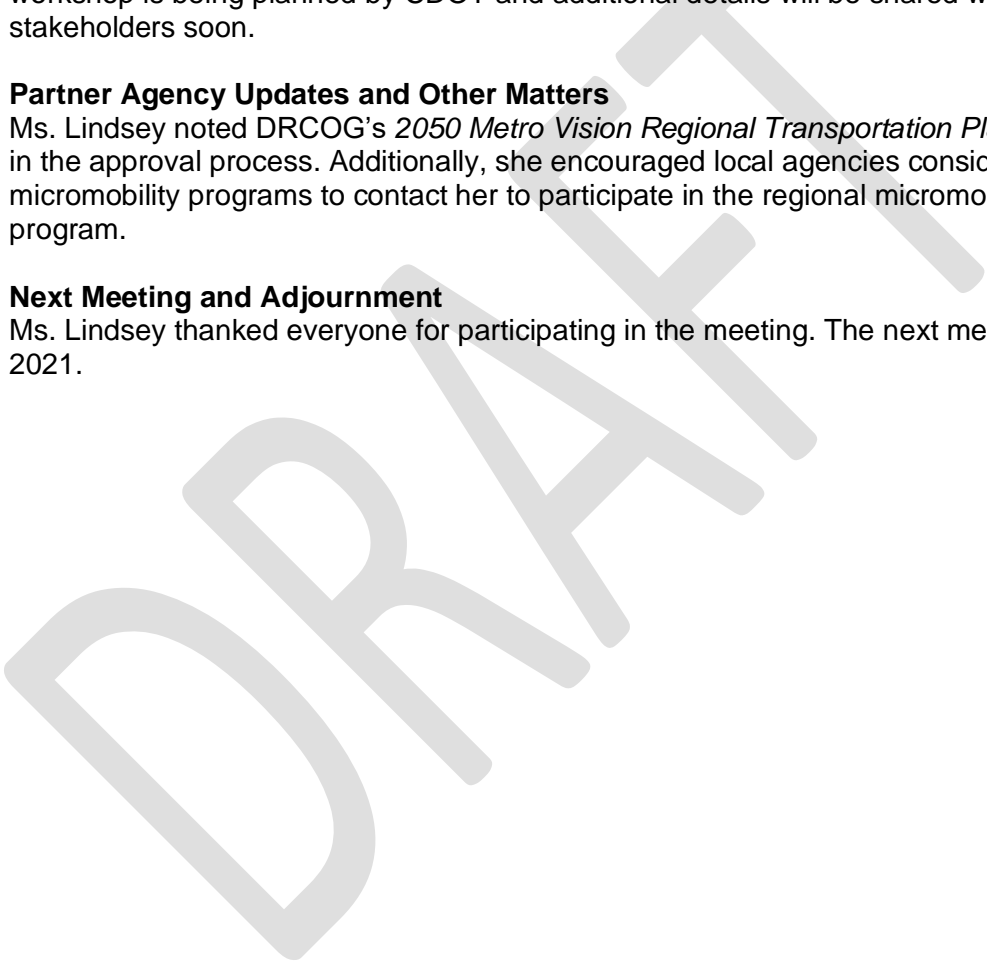
Ms. Lindsey provided an update on the Data and Data Sharing focus area. The Discovery Report is being finalized and will be shared via the website soon. A data use case workshop is being planned by CDOT and additional details will be shared with stakeholders soon.

5. Partner Agency Updates and Other Matters

Ms. Lindsey noted DRCOG's *2050 Metro Vision Regional Transportation Plan* is currently in the approval process. Additionally, she encouraged local agencies considering shared micromobility programs to contact her to participate in the regional micromobility data program.

6. Next Meeting and Adjournment

Ms. Lindsey thanked everyone for participating in the meeting. The next meeting is May 4, 2021.





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DATE: May 4, 2021
TO: AMP Working Group
FROM: Greg MacKinnon, Transportation Operations Program Manager, DRCOG
SUBJECT: AMP Focus Area: System Operations
ACTION: Information and Discussion

SUMMARY

The AMP Working Group will have two informational briefings and discussions focused on one of the three AMP priority focus areas; the focus of these briefings is on system operations in the region.

Briefing 1: Regional Transportation Operations Plan: Visioning

Greg MacKinnon, Transportation Operations Program Manager, DRCOG, will brief the working group on an effort underway to develop a Regional Transportation Operations Plan, and engage stakeholders as part of the visioning and planning process.

Briefing 2: Transit Priority in the Denver Region

Doug Monroe, Corridor Operations Planning Manager, and Li-Wei Tung, Senior Transportation Operations Planner, both from RTD, will provide an overview of transit priority initiatives in the region including existing/on-going implementations, RTD's transit signal priority framework and information regarding performance and monitoring.¹

ATTACHMENT(S)

N/A

ADDITIONAL INFORMATION

For additional information, please reach out to Greg MacKinnon, Transportation Operations Program Manager, DRCOG at gmackinnon@drcog.org.

¹ <https://www.rtd-denver.com/projects/transit-signal-priority>



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DATE: May 4, 2021
TO: AMP Working Group
FROM: Rachel Bolin, Healthy Communities Coordinator, CDOT
SUBJECT: Future of Work
ACTION: Discussion

SUMMARY

The AMP Working Group will discuss the future of work and the return to offices at their May meeting. There will be an interactive participation activity, so please come prepared to share what the future of work looks like at your agency. We will explore questions like:

- Regardless of what your organization is planning, what is your vision for how people get to work in the Denver region in the next 5 years?
- Do you anticipate returning to the office full time, part-time (hybrid) or will you be fully remote?
- If you do travel to the office, do you anticipate that your travel mode or time will shift from your pre-pandemic commute?

We are looking forward to hearing from you at the May meeting.

ATTACHMENT(S)

N/A

ADDITIONAL INFORMATION

For additional information, please contact Rachel Bolin, Healthy Communities Coordinator at CDOT at Rachel.bolin@state.co.us.



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