



ADVANCED
MOBILITY
PARTNERSHIP

AGENDA

WORKING GROUP
Tuesday, April 5, 2022
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://us06web.zoom.us/join/91515691234>

- 1. Welcome and Introductions**
- 2. Informational Briefings**
 - Mines Rover Pilot*
Tyler Svitak, Executive Director, Colorado Smart Cities Alliance
 - Regional Shared Micromobility Data Collaborative*
Emily Lindsey, Transportation Technology Strategist, DRCOG
Michael Schwartz, Head of City Success, Ride Report
- 3. AMP Pilot Tracking/Inventory**
Emily Lindsey, Transportation Technology Strategist, DRCOG
- 4. AMP Focus Area: Data and Data Sharing**
 - Concept Development Discussion*
Emily Lindsey, Transportation Technology Strategist, DRCOG
- 5. AMP Focus Area: System Operations**
Greg MacKinnon, Transportation Operations Program Manager, DRCOG
- 6. Partner Agency Updates and Other Matters**
- 7. Next Meeting: May 3, 2022**

Attendees can request additional aids or services, such as interpretation or assistive listening devices, by calling 303-480-6701 or emailing elindsey@drcog.org. Please notify us at least 48 hours in advance so we can coordinate your request.



COLORADO
Department of Transportation





ADVANCED
MOBILITY
PARTNERSHIP

WORKING GROUP
Tuesday, March 1, 2022
2:30 p.m.

Denver Regional Council of Governments
held remotely via Zoom

MEETING SUMMARY

Attendees

Melissa Adamson, DRCOG
Lacey Allor, Northern Colorado Clean
Cities
Anna Bunce, City of Centennial
Steve Cook, DRCOG
Rachel Davis, CDOT
Matt Duncan, Lakewood
John Featherstone, CDOT
Jim Fox, Arapahoe County
William Haas, FHWA
Joshua Hoffmann, HDR
Kristin Kenyon, FTA
Michael King, CDOT
Kim Kinnison, CDOT
Peter Krahenbuhl, Colorado CarShare
Alex Larson, Olsson
David Levy, Mobilitynext
Emily Lindsey, DRCOG
Diego Lopez, Northern Colorado Clean
Cities
Greg MacKinnon, DRCOG
Brian Marshall, Olsson

Wes Marshall, UTAC Representative
Doug Monroe, RTD
Sebastian Montenegro, Felsburg Holt &
Ullevig
Lisa Nguyen, Denver International Airport
Ashley Nysten, CDOT
Skyler Potocek, Northern Colorado Clean
Cities
Carson Priest, Smart Commute Metro
North
Chris Primus, HDR
Flo Raitano, DRCOG
Tegan Rice, RTD
Josh Schwenk, DRCOG
Josh Sperling, NREL
Lisa Streisfeld, CDOT
Kellee Van Bruggen, City of Arvada
Jonathan Wade, RTD
Melanie Ward, City of Centennial
Brian Welch, RTD
Kate Williams, RTD
Tom Worker-Braddock, City of Aurora

1. Welcome and Introductions

Emily Lindsey, Vice Chair, welcomed attendees to the Advanced Mobility Partnership (AMP) Working Group.

2. Election of Officers

Ms. Lindsey facilitated an election for Chair and Vice Chair. Ms. Lindsey, DRCOG, was elected Chair. The Working Group chose to delay election of a Vice Chair to a



COLORADO
Department of Transportation





future meeting. Eligible vice chair nominees may be from DRCOG, the Denver Metro Chamber, RTD, CDOT, or the University Transportation Alliance for Colorado. Congratulations to Ms. Lindsey and many thanks to outgoing chair Ashley Nylen!

3. Electrification Briefing

Mike King, CDOT, provided the working group with an update on the state's electrification initiatives. The state's 2020 Electric Vehicle Plan¹ includes targets for 940,000 registered zero-emission vehicles (ZEVs) and 1,000 ZEV transit vehicles by 2030. There are currently just over 49,000 registered electric vehicles (EVs) in the state, mostly clustered in the Front Range. The state has made over 1,500 grants for charging infrastructure under the Charge Ahead Colorado grant program, as well as an award to build 34 DC fast charger locations along specific corridors of the state. Additionally, three rounds of the Fast Charging Plaza Grant program have been completed, providing chargers in urban locations and near transportation hubs. Eight scenic & historic byways have been electrified, and four more are in progress. The state is currently developing a Clean Truck Strategy,² which is currently available for public comment. Additionally, the state has released a Transit ZEV Roadmap³ to plan for electrification considerations and strategies for transit vehicles.

Mr. King also highlighted some new funding opportunities for electrification in the state. These include the three new state enterprises created by SB21-260 to support electrification: Community Access Enterprise,⁴ Clean Fleet Enterprise,⁵ and Clean Transit Enterprise;⁶ the National EV Infrastructure Program⁷ which will provide \$57 million to Colorado over 5 years; and federal competitive discretionary programs.

4. Informational Briefing

CSU CARE E-bike Program

Skyler Potocek and Diego Lopez, Northern Colorado Clean Cities (NCCC), presented on the Fort Collins E-bike Program. Following the Can Do Colorado eBike Mini Pilot in Denver in Fall 2020, the Colorado Energy Office expanded to a

¹ <https://energyoffice.colorado.gov/zero-emission-vehicles/colorado-ev-plan-2020>

² <https://www.codot.gov/news/2022/march/polis-clean-truck-strategy-reduces-pollution>

³ <https://www.codot.gov/news/2022/march/polis-clean-truck-strategy-reduces-pollution>

⁴ <https://energyoffice.colorado.gov/community-access-enterprise>

⁵ <https://cdphe.colorado.gov/clean-fleet-enterprise>

⁶ <https://www.codot.gov/programs/innovativemobility/cte>

⁷ https://www.fhwa.dot.gov/bipartisan-infrastructure-law/nevi_formula_program.cfm





two-year statewide pilot distributing 156 eBikes around the state, including 25 to Fort Collins, in Spring 2021.⁸ NCCC worked with community partners to distribute these eBikes and related equipment to low-income essential workers at no cost, and provide education and training⁹ to recipients. The National Renewable Energy Laboratory (NREL) developed an app to collect data from participants and a dashboard to display results.¹⁰

5. AMP Focus Area: Data and Data Sharing

Survey Results and Concept Development Discussion

Ms. Lindsey provided the results associated with the recent survey on mobility data and data sharing use cases. The survey gauged respondents interest in and priority for implementing the use cases identified during the workshops last year. This information helps to prioritize needs for future improvements to how data is handled in the region. Based on all of the work that has been done so far, a draft concept paper is being developed to define what a data sharing platform may consist of. The four primary functions identified are finding data resources, sharing data findings/methodologies, analyzing data, and managing and operating the transportation system. There are incremental improvements that can be prioritized and implemented first, while a larger concept of operations is developed. The group will continue to review and discuss these ideas until they make a recommendation to the AMP Executive Committee regarding the concept and next steps.

6. Partner Agency Updates and Other Matters

Brian Welch, RTD, announced that the RTD Board just approved the purchase of 17 battery electric buses. Mr. Welch also noted that RTD is participating in the Federal Transit Administration's (FTA's) Sustainable Transit for a Healthy Planet Challenge.¹¹ Finally, Mr. Welch also shared that RTD is planning an upcoming AMP presentation on Reimagine RTD's impact on Mobility Choice Blueprint tactical actions, particularly around zero-emission vehicles. Ms. Lindsey gauged working group members' impressions on returning to in-person meetings, remaining remote, or a hybrid approach. A survey of members on meeting options will be forthcoming.

7. Next Meeting and Adjournment

⁸ <https://energyoffice.colorado.gov/zero-emission-vehicles/can-do-colorado-ebike-pilot-program>

⁹ <https://www.youtube.com/watch?v=yTf3XknEmmA>

¹⁰ <https://dashboard.canbikeco.org>

¹¹ <https://www.transit.dot.gov/climate-challenge>





ADVANCED
MOBILITY
PARTNERSHIP

Ms. Lindsey thanked everyone for participating in the meeting. The next meeting is April 5, 2022.

DRAFT



COLORADO
Department of Transportation





ADVANCED
MOBILITY
PARTNERSHIP

DATE: April 5, 2022
TO: AMP Working Group
FROM: Emily Lindsey, Transportation Technology Strategist, DRCOG
SUBJECT: Informational Briefings
ACTION: Information

SUMMARY

The AMP Working Group will have two informational briefings at the April meeting:

Mines Rover Pilot

Tyler Svitak, Executive Director of the Colorado Smart Cities Alliance, will share information on the Mines Rover Pilot. The Mines Rover project began in fall of 2021 and was the first phase of a larger deployment of automated, electric vehicles in Colorado. This project ran through December 2021.¹

Regional Shared Micromobility Data Collaborative

Emily Lindsey from DRCOG and Michael Schwartz from Ride Report will share information on DRCOG's regional shared micromobility data collaborative² and work done as part of DRCOG's participation in the statewide Colorado Electric Vehicle Coalition's micromobility subgroup.

ATTACHMENT(S)

N/A

ADDITIONAL INFORMATION

For additional information please contact Emily Lindsey, Transportation Technology Strategist, DRCOG at elindsey@drcog.org.

¹ <https://www.mines.edu/rover/>

² <https://drcog.org/planning-great-region/transportation-planning/advanced-mobility/shared-micromobility>





ADVANCED
MOBILITY
PARTNERSHIP

DATE: April 5, 2022
TO: AMP Working Group
FROM: Emily Lindsey, Transportation Technology Strategist, DRCOG
SUBJECT: AMP Pilot Tracking
ACTION: Information

SUMMARY

At the April meeting of the AMP Working Group, the group will see a draft technology pilot tracking sheet, a tool developed to track technology-related pilots that occur in the Denver region. If partners concur, this spreadsheet will be collaboratively maintained by AMP partner agencies and perhaps added to the AMP website once it has been updated.

ATTACHMENTS

N/A

ADDITIONAL INFORMATION

For additional information, please contact Emily Lindsey, Transportation Technology Strategist, DRCOG, at elindsey@drcog.org.



COLORADO
Department of Transportation





ADVANCED
MOBILITY
PARTNERSHIP

DATE: April 5, 2022
TO: AMP Working Group
FROM: Emily Lindsey, Transportation Technology Strategist, DRCOG
SUBJECT: AMP Focus Area: Data and Data Sharing
ACTION: Discussion

SUMMARY

Concept White Paper

At the April meeting of the AMP Working Group, the group will discuss the concept white paper for mobility data sharing in the context of a regional mobility data platform. This initial concept was identified after extensive stakeholder engagement was conducted to gather needs, use cases and priorities related to transportation and mobility data sharing. Most recently, at their March meeting, the AMP Working Group was asked about their thoughts on the general concept components, after hearing support for this structure, staff has put together a working draft of the concept white paper.

ATTACHMENTS

N/A

ADDITIONAL INFORMATION

For additional information, please contact Emily Lindsey, Transportation Technology Strategist, DRCOG, at elindsey@drcog.org.





ADVANCED
MOBILITY
PARTNERSHIP

DATE: April 5, 2022
TO: AMP Working Group
FROM: Greg MacKinnon, Transportation Operations Program Manager, DRCOG
SUBJECT: AMP Focus Area: System Operations
ACTION: Discussion

SUMMARY

At the April meeting of the AMP Working Group, the group will discuss the on-going development of the Regional Transportation Operations and Technology (RTO&T) Strategic Plan, focusing on the regional transportation operational concept and data management service area. The operational concept is a high-level description of the roles and responsibilities of regional stakeholders as they relate to the management and operation of the region's multimodal transportation systems. In other words, how will the stakeholders interconnect the various systems and work together to provide efficient regional multimodal transportation operations for the traveling public. Of particular interest to the AMP Working Group is the data management service area of the regional transportation operational concept.

The operational concept builds from the planning guidance provided in DRCOG's Metro Vision and the Mobility Choice Blueprint echoing the theme of collaborative, integrated and regional operations. The AMP Working Group will discuss and provide input on the data management service area framework components.

ATTACHMENTS

N/A

ADDITIONAL INFORMATION

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



COLORADO
Department of Transportation

