#2022COTS
Sheraton Denver Downtown Hotel | Wednesday, April 13, 2022
ColoradoTransportationSymposium.ORG

7:30 AM – 8:30 AM
Registration: 2nd Floor | Coffee and Pastries | South Convention Lobby

Symposium Welcome – (8:30 AM – 9:00 AM)
Welcome Session Speaker: Herman Stockinger,
CDOT Deputy Director and Director of Policy and Government Affairs

10:00 AM – 10:30 AM
Break to Network, Visit the Vendors, and Explore Student Displays

Mobile Tour: 16th Street Mall Re-Design (10:30 AM – 11:30 AM)

1:30 PM – 2:00 PM
Break to Network, Visit the Vendors, and Explore Student Displays
Mobile Tour: 16th Street Mall Re-Design (2:00 PM – 3:00 PM)

3:00 PM – 3:30 PM
Break to Network, Visit the Vendors, and Explore Student Displays

Don’t Forget to Log Your Credits:
Engineering Continuing Education PDH Credits
Please complete the PDH credits form and place in the marked box on the registration table at the end of the program.

AICP CM Credits
Breakout sessions: 1 CM
Keynote: 1 CM

Presenting Organizations:

Schedule

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<th>Time</th>
<th>Session</th>
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<tr>
<td>9:00 AM</td>
<td>Safety</td>
<td>Tower C</td>
<td>Moderator: Gabrielle Renner, PE, PTDE, RSP1</td>
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<tr>
<td>9:00 AM</td>
<td>Breakout</td>
<td>Tower T</td>
<td>Moderator: John Yu, PE</td>
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<tr>
<td>9:00 AM</td>
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<td>Library</td>
<td>Realizing the Benefits of a Connected City Ecosystem: Marina Johnson, MS, Nagar Karimi, EIT, Leslie Vosg</td>
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<td>9:00 AM</td>
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<td>The Inclusivity Required of Vision Zero’s “0” Roadway: Matt Duncan, PE, PTDE, Joe Chin, PE</td>
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<td>Analyzing Climate Impacts on Roadway Behavior in Colorado: Matt Barklew, Nick Meyer</td>
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<td>Managing Traffic at the Great Colorado Air Show: Nathan Reaume, PE, PTDE, Martina Wilkinson, PE, PTDE</td>
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<tr>
<td>9:00 AM</td>
<td>Breakout</td>
<td>Library</td>
<td>CDOT Operations Evaluation Process &amp; Tools: Benjamin Acornos, PE, PMP</td>
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Lunch / Keynote – (11:30 AM – 1:30 PM)
Keynote Speaker: Phil Washington
Chief Executive Officer (CEO) of the Denver International Airport (DEN)

1:30 PM – 2:00 PM
Break to Network, Visit the Vendors, and Explore Student Displays

Collaboration in the Age of Social Media: Matt Vickers, PE, AICP, PTOE

2:00 PM – 3:00 PM
Break to Network, Visit the Vendors, and Explore Student Displays

Leveraging Data to Drive Decisions for the Actionable Congestion Relief Program: Andrew Vidor, BSCE

3:00 PM – 3:30 PM
Break to Network, Visit the Vendors, and Explore Student Displays

Leveraging Data to Drive Decisions for the Actionable Congestion Relief Program: Andrew Vidor, BSCE

4:00 PM – 4:30 PM
Complimentary Drink Ticket Provided – Grand Ballroom | South Convention Lobby

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Breakout sessions: 1 CM
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7:30 AM – 8:30 AM (Registration: 2nd Floor | Coffee and Pastries: South Convention Lobby)
Symposium Welcome – (8:30 AM – 9:00 AM)
Welcome Session Speaker: Herman Stockinger, CDOT Deputy Director and Director of Policy and Government Affairs

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<th>EDI Room: Tower A</th>
<th>Transformational Technology Room: Tower B</th>
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<th>Resiliency, TSMO Room: Windows</th>
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<tr>
<td>Moderator: Susan Wood, FAICP</td>
<td>Moderator: John Yu, PE</td>
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<td>Moderator: Brendan Carroll, PE, CFM</td>
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**EDI: Equity, Diversity, and Inclusion**

**Perspectives, Policies, and Practices in Transportation**
Equity, Diversity, and Inclusion (EDI), with definitions that are individual, yet interconnected, are everywhere these days and the need for implementation of EDI principles is overarching and transcends jurisdictional boundaries, public or private sector, or specific areas of practice. Understanding each and the way they interact are essential if we are to make a difference in the lives of people, both inside and outside of our organizations. Though the need is broad, effective implementation lies in focused policies and practices pertinent to specific applications, including transportation. Join us to hear perspectives, policies, and practices from the EDI leaders of our two largest transportation providers in Colorado. Each will provide agency-specific information on applied principles of EDI, followed by open, engaging dialogue, with an opportunity for audience question, answer, and discussion.

**Marsha Nelson**
**Carl Green, Jr.**

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**Transformational Technology**

**Realizing the Benefits of a Connected City Ecosystem**
By understanding a city’s and state’s foundational assets around talented multidimensional staff, technology such as fiber, connected & autonomous vehicles and sensors/ITS devices, Denver has developed, through an entrepreneurial mindset, on how to realize the promise and potential of this new technology and data integration. This panel will look into what technologies, partnerships, data flows, engineering guidelines and best practices are being developed to assist this transition process and ensure public benefits from emerging technology and data trends are maximized to improve Denver outcomes around safety and mobility. Together, a system of systems implementation includes Connected Pedestrians, Connected Snowplows, Connected Transit with an integrated data and visualization system.

**Marina Johnson, MS**
**Negar Karimi, EIT**
**Laszlo Virag**

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**Safety**

**The Inclusivity Required of Vision Zero’s "0"**
The “zero” in Vision Zero is not just motorcycles, or just bicycles, cars or pedestrians. The “zero” is all deaths, which means we must consider all modes, all behaviors, and both human limitations and abilities if we are to be successful. Challenges related to substance abuse, impairment or mental health are critical components of a realistic “zero”.

The presentation focuses on Lakewood’s worst year for fatalities (2019) and discusses detective findings from crash investigations.

The last portion of the presentation discusses Lakewood’s Colfax Safety Project, an innovative approach based on the context of our city’s fatal crash investigations that relies on understanding complex challenges related to behavior.

**Matt Duncan, PE, PTOE**

**Is it True? Are Roundabouts Really Safer?**
The City of Loveland installed their first roundabout in the late 1990’s and has been utilizing roundabouts to promote roadway safety, improve mobility and reduce congestion ever since. Today, over 60 roundabouts have been installed including over 30 at arterial or collector street intersections. In 2021 Loveland initiated a data driven citywide safety study to comprehensively evaluate roadway safety and develop recommendations on ways to “move the needle” by reducing the number and severity of crashes within the city. This presentation discusses roundabout safety in Loveland for vulnerable road users and provides a statistical safety comparison of roundabouts to other forms of intersection control.

**Matt Ruder, PE, PTOE**
**Joe Olson, PE**

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**Resiliency, TSMO**

**Analyzing Climate Impacts on Roadway Behavior in Colorado**
The effects of climate change continue to prove challenging for Colorado policy makers and the citizens of Colorado at an individual level. For example, severe weather events can cause road closures, increase maintenance costs and cause dramatic changes in transportation behavior. The August 2020 Grizzly Creek wildfire forced the temporary closure of I-70 between Glenwood Springs and Gypsum. The closure shifted trips from I-70 onto other roadways in the network and caused other trips to be cancelled. Streetlight Data will present an analysis of this event using big data in an effort to better understand the effects of detours and traveler choices in response to the event and what implications could occur for the communities on the alternate routes.

**Matt Barkley; Nick Meyers**

**Managing Traffic at the Great Colorado Air Show**
The Great Colorado Air Show attracted 15,000 ticketed attendees a day plus many thousands of other spectators to the Northern Colorado Regional Airport in Loveland in October. Managing this amount of traffic combined with FAA mandated road closures was a challenge involving many different agencies from the region. This presentation will discuss the planning and operations that led to a successful event.

**Nathan Beauheu, PE, PTOE**
**Martina Wilkinson, PE, PTOE**

**CDOT Operations Evaluation Process & Tools**
This session will provide attendees with an overview of the CDOT Operations Evaluation process, a two stage process required for all projects on CDOT roadways and provide an introduction to new tools that have been developed by CDOT to supplement the process including the Intersection Control Analysis Tool (ICAT) and the Operational Level of Service (OLOS) dashboard.

**Benjamin Acimovic, PE PMP**
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<tr>
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<tr>
<td>10:00 AM</td>
<td>Tower A</td>
<td>Multimodal Transportation</td>
<td>Jonathan Mosteiro, AICP My La Justin Begley</td>
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<td>David Krutsinger, AICP</td>
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<td>Tower B</td>
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<td>Lindsay Sousa, AICP</td>
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<td>Tower C</td>
<td>Design Topics</td>
<td>Emma Boff, PE Allie Axley</td>
<td>Tower C</td>
<td>Karl Buchholz, PE</td>
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<td>11:30 AM</td>
<td>Windows</td>
<td>Safety</td>
<td>Devon Brazeal, EIT</td>
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<td>Karen Rowe, PE</td>
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**Implementing Denver Moves**

**Transit: Bus Stops to BRT**

- The streets aren't getting any wider, and we need to move more people than ever before. Transit is supposed to simultaneously reduce congestion, clean the air, and make cities more inclusive and affordable. Come see how Denver's efforts over five years are turning aspirations into reality, from bus stop improvements to building center-running bus rapid transit.

  Jonathan Mosteiro, AICP

  My La

  Justin Begley

**Digital Delivery**

- Digital Planning: A critical step in the transportation planning process is the ability for communities to review and comment on project alternatives and potential environmental impacts. To date, this process has mainly involved volumes of hard copies and pdfs that can be daunting to navigate. In July 2021, FHWA and ADOT published the nation's first fully digital, interactive EIS (https://eeus.alytics.com/) on a transportation project. The Final Tier 1 EIS used AECOM’s interactive PlanEngage tool, which transforms the way planning documents are communicated, offering greater accessibility and transparency for project stakeholders, agencies, and the public. The tool is interactive, mobile phone friendly, fully compliant with Web Content Accessibility Guidelines, and compatible with third-party language translation.

  Lindsay Sousa, AICP

  David Lindahl

  Dayna Wasley

**The Revamp of CDOT’s Systems Engineering Analysis (SEA) Process**

- As of September 1, 2021, CDOT has a revamped Systems Engineering Analysis (SEA) process that is required on all CDOT and local agency projects. CDOT has structured the SEA process to be a project delivery process for the consistent design of technology. This presentation will cover the why behind the change, how change management was utilized, and how the process is structured. We will also discuss our next steps, which includes defining the CDOT Architecture Plan. The SEA and a CDOT specific Architecture Plan are both federally required per 23 CFR 940.

  Emma Boff, PE Allie Axley

**Roadway Lighting Data Driven Decisions**

- With the number of pedestrian fatalities on the rise around the country, 6,205 reported in 2019 and approximately 75% of these fatalities occurring at night, the importance lighting has on roadway facilities is rapidly evolving. This presentation will highlight challenges to designing adequate street lighting facilities.

  Devon Brazeal, EIT

  A Pedestrian Crossing Location Priority Matrix

- Do you have an ever-growing list of locations for pedestrian crossing enhancements? Are you faced with limited budgets for pedestrian improvements? Would a simple, cheap, and effective tool help you better evaluate and prioritize your pedestrian projects? If you answered yes then this cheap, simple, and effective tool to prioritize pedestrian crossing projects, this presentation is for you!

  Sharon Cunningham

  Characterizing Human Behavior to Improve Safety

- Imagine if you had the tools to study human behavior, utilize your findings and proactively implement a solution that would optimize safety and enhance your roadway usage. This is attainable as we gather insights through human behavior.

  Andrew Markese

**Complete Streets Retrofit on West 70th Avenue in Adams County**

- The redesign of existing arterials and collector streets can intentionally provide more room for nonmotorized travelers, make street crossings easier for pedestrians, and help control traffic speeds, thus reducing crashes. In this session, staff from Adams County, Ayres Associates, and Mead & Hunt will outline how this can be done.

  Molly North

  Nathan Silberhorn

  Long Nguyen, PE

**25 miles of Bikeways per Year – Lessons Learned from Denver’s Bike Paving Program**

- This session will discuss the challenges of coordinating 10 to 20 corridor designs per year with a paving crew responsible for paving 400-500 miles of roadway a year for the City and County of Denver’s “Bike Paving” program.

  Alicia Zimmerman, PE, PTOE, LEED AP

**We’re Planning for Grid Expansion, But What do we Need to do to Charge Vehicles?**

- Electrification is ramping up at an astonishing rate. We’re preparing our power grids to be capable of distributing the additional load necessary to support charging of our soon-to-be electrified fleet. This session will focus on what you need to know to understand the electrification in our parking facilities.

  Andrew Vidor, BSCE
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<tr>
<td>Moderator: Jennifer Hillhouse, AICP</td>
<td>Moderator: Nick VanderKwaak, AICP, MS</td>
<td>Moderator: Dana Hoffman, AICP, MS</td>
<td>Moderator: David “DK” Kemp</td>
<td>Moderator: Lisa Nguyen, PE</td>
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**AI Road Management: The New Age of Maintenance**
Using crowdsourced imagery from the countless cameras driving around your cities roads are now being seen in a way never possible before, passively in depth. With AI vision, roadways are autonomously cataloged from a small crack or debris on the road to full work zones and damaged infrastructure. Using the precision of new technology will transform how resources are allocated and drive infrastructure management to a smarter and greener future. 

**Jake Halu**

**Denver Moves Everyone: 2050 Transportation Master Plan**
Whoever said, “Getting there is half the fun,” probably wasn’t a commuter sitting in rush-hour traffic, someone who just missed their bus, a child crossing a busy intersection, a semi-truck driver navigating urban streets, or a bicyclist sandwiched between what seem like monster trucks. Denver Moves Everyone 2050 is a citywide plan identifying transportation solutions that will make it easier to get where we want to go. The plan will prioritize equitable and safe solutions for Denverites and seek to improve the movement of goods and services ensuring you have access to everything you need.

To accomplish this vision, the plan is focusing on improving all the ways we travel - whether rolling, walking, bicycling, taking transit or driving - and all the ways we manage traffic and freight. 

**Michelle Bina**

**Sam Piper**

**Connections and Partnerships for Success**
Denver’s Department of Transportation and Infrastructure (DOTI) designed improvements for Peoria Street to add multimodal connectivity from 37th Avenue to 56th Avenue and address safety concerns at several intersections. The project serves a high-equity need community and included extensive engagement through planning and design stages. The corridor connects RTD’s Peoria Station, crosses the Central 70 construction zone, a congested commercial area, communities where the city is focusing on equity, and the Rocky Mountain Arsenal national Wildlife Refuge. Improvements were identified through strong community input in the Far Northeast Area Plan, the Vision Zero Action Plan and Denver’s Mobility Action Plan.

**Nick VanderKwaak, AICP, MS**

**Tony DeVito, PE**

**Margie Kreli, PE**

**David DiGiacomo, PE, PTOE**

**Data, Data, Data: Building the Right Architecture for All Things Data**
Data and data sharing have transitioned in the transportation industry from “nice to have” to crucial for mission critical, hyper-local communication, day-to-day operations and data-driven strategic decisions around funding. Come learn how to best think about data integration from work Parsons is supporting throughout the country.

**Emily Silverman, PMP**

**ASCE 75 – Standard Guideline for Recording and Exchanging Utility Infrastructure Data**
This standard defines spatial and feature attributes to be recorded when utility infrastructure is installed or exposed (i.e., it is an “as-built” or “as-installed” standard). Conformance to this new standard essentially enables the creation of digital twins of utility installations.

**Philip Meis**

**Ground based LiDAR and Imagery for Roadway Assets**
Transportation Departments are using positionally-accurate, high-resolution, street-level imagery to streamline workflows and reduce transportation costs by eliminating the need for field visits.

**Paul Madrid**

**Curb Management: New Buzz Word, What We’ve Been Doing all Along, or an Actionable Congestion Relief Program?**
In our rapidly changing world, the humble curb is seeing a convergence of competing uses. From an increase in pick-ups and drop-offs to new ways to get around like shared bikes and scooters, curb space must be managed to ensure accessibility, safety, and circulation.

**Andrew Vidor, BSCE**

**Economic Importance of Managed Parking**
Parking operations are an important component of an overall congestion management program. Vehicles circling for parking creates additional and unnecessary stress on the transportation network. This discussion focuses on the factors of importance for a well-managed parking system and the benefits.

**Andrew Vidor, BSCE**

**20 is Plenty in Boulder – What Did We Learn?**
In 2020, as part of Vision Zero efforts, the City of Boulder committed to “20 is Plenty” by passing an ordinance to lower the unposted speed limit from 25 mph to 20 mph. Toole Design and the City of Boulder worked together to conduct a before and after analysis of speeds and street characteristics.

**Devin Joslin, PE, PTOE; Drew Parker**
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<th>Time</th>
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<tr>
<td>3:00 PM – 3:30 PM</td>
<td>Breakout</td>
<td><strong>Denver Bus Priority Program</strong>&lt;br&gt;Denver is working on prioritizing buses on their roadways on frequent, high-ridership routes, improving transit travel times and reliability for the nearly 250,000 customers who ride the bus every day. This is a major step towards implementing the vision in Denver Moves: Transit and focuses on identifying short-term bus priority projects that can be constructed quickly with low-cost treatments to improve bus service where it's most delayed. This presentation will highlight two ongoing projects, the Denver Bus Priority Network Study that is building out this program to set Denver up with a pipeline of future quick-build projects and one of the early projects within the program, the Federal Boulevard Bus Priority Project. The Denver Bus Priority Network Study will determine what locations should be prioritized for improvements and develop an entire program of how to move forward with these projects for design and construction in the coming years. Federal Boulevard is home to some of the most diverse neighborhoods in Denver and is one of the highest transit ridership corridors in the city.&lt;br&gt;Ben Waldman, PE, PTOE&lt;br&gt;Malinda Reese, PE&lt;br&gt;Daniel Sheeter</td>
</tr>
<tr>
<td>3:30 PM – 4:00 PM</td>
<td>Multimodal Transportation Room: Tower A&lt;br&gt;Moderator: Jessica Hernandez, AICP</td>
<td><strong>Ghost Train - Can We get Denver Back on the Tracks, and Should We?</strong>&lt;br&gt;Nathaniel Minor at Colorado Public Radio (CPR) launched the podcast &quot;Ghost Train&quot; February 8, 2022. The podcast was transportation leaders that have a vision for a greener transportation system in Colorado, the challenges that kept much of that plan from becoming successful, and the ideas that might help the region move forward. In this panel discussion, Nathaniel will recap the podcast and where it left off and start a new conversation with his panelists about where we go from here. Our panelists will dive into topics like - 1) how do you build a transit system that balances equity, real ridership demands, space for cars versus other modes? 2) Does Front Range Passenger Rail have a chance at being built and should it? &lt;br&gt;Shontel Lewis&lt;br&gt;Debra Baskett&lt;br&gt;Sal Pace</td>
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<td>3:30 PM – 4:00 PM</td>
<td>Significant Projects Room: Tower B&lt;br&gt;Moderator: Nathaniel Minor</td>
<td><strong>An Improved Approach to Traffic Design – Integrate Traffic Components into Roadway Modeling</strong>&lt;br&gt;In current engineering design practice, there are generally two ways to design traffic components in typical/cross sections: apply cross features in modeling platforms to display traffic components in cross sections or draft them manually. There are deficiencies in either method, such as: 1. Time consuming 2. Difficult to determine sizes and dimensions of components. 3. Difficult to verify whether traffic components meet vertical clearance and clear zone requirement. 4. Cannot update automatically. In this presentation, we will introduce and demonstrate a new approach to integrating traffic components into roadway modeling to address these deficiencies. As a result, traffic features such as ITS poles/gantries and overhead sign structures will be included in the model and shown in the cross sections automatically. &lt;br&gt;Shenghong Li, PE, PTOE</td>
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<td>3:30 PM – 4:00 PM</td>
<td>Innovative Project Delivery Room: Tower C</td>
<td><strong>The Perfect Storm: Snow, Ice, and Bikeways</strong>&lt;br&gt;Vertical separation from motorists (e.g., protected bike lanes on major streets) and traffic calming to encourage low motorist volumes and speeds (e.g., bike boulevards on neighborhood streets) can result in safe and comfortable bikeways. However, both protected bike lanes and traffic calming treatments can introduce challenges for managing snow and ice in winter months. This interactive panel will highlight the approaches, successes, and lessons learned by local governments in the Front Range including: the City of Aurora, the City of Boulder, and the City and County of Denver, and the City of Fort Collins. &lt;br&gt;David “DK” Kemp&lt;br&gt;Scott Schlecht&lt;br&gt;Cortney Geary&lt;br&gt;Jeff Johnston&lt;br&gt;Matt Wempe</td>
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<tr>
<td>3:30 PM – 4:00 PM</td>
<td>Multimodal Transportation Room: Tower D&lt;br&gt;Moderator: Trung Vo, PE, AICP</td>
<td><strong>Leveraging Data to Drive Decisions for the $937M Elevate Denver Bond Program</strong>&lt;br&gt;The City and County of Denver’s Elevate bond program has developed and deployed an internal Power BI-based tool to track project schedules and expenditures, visualize the program’s progress, and communicate project status to a broad audience. Together, this data visualization is assisting the team identify projects that require additional support. &lt;br&gt;Jane Fisher, PE, PTOE&lt;br&gt;Scott Baker, PLA, ASLA</td>
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<td>3:30 PM – 4:00 PM</td>
<td>Funding/Multimodal Transportation Room: Windows&lt;br&gt;Moderator: Brett Boncore, PE</td>
<td><strong>Transforming Transportation Capital Investments in Denver</strong>&lt;br&gt;Municipal and state departments of transportation maintain Capital Investment Programs (CIP) that identify future projects. UrbanTrans is leading the process to revamp Denver’s capital programming as part of the Denver Moves Everyone Strategic Transportation Plan. &lt;br&gt;Jonny Rotheram; Amy Johnson, AICP</td>
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<td>3:30 PM – 4:00 PM</td>
<td>Regional Transportation Authority – Maybe</td>
<td><strong>Regional Transportation Authority – Maybe</strong>&lt;br&gt;This is the story of the Pinal Regional Transportation Authority (PRTA). Voters in fast-growing Pinal County, Arizona approved a transportation plan and sales tax in November 2017, but a lawsuit two months later put the effort on hold. This presentation discusses how the organization will spend more than $671 million to fund transportation. Maybe! &lt;br&gt;Doug Eberhart</td>
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**Happy Hour – (4:30 PM – 6:00 PM) One Complimentary Drink Ticket Provided – North and South Convention Lobbies**