

ORD, FP4 PLUS

**2nd Infraday
Mountain States
Le Meridien Denver
Downtown
July 27, 2023
infraday.com/mst**

Speakers:

Aaron McClellan, Construction Technology Manager, **Granite Construction**
Abby Thomas, Area Sales Manager — South Central Region, US, **ABB**
Adam Berry, Senior Program Manager, **Colorado Energy Office**
Agnieszka Hernandez, Project Manager IV, Energy Resource Planning, **Colorado Springs Utilities**
Andrea McCarthy, Senior Transportation Analyst, **Brendle Group**
Andy Rossello, Project Manager III | Utilities, **City of Aspen**
Anna Bunce, City Traffic Engineer, **City of Centennial**
Austin Krcmarik, Water Efficiency Lead, **Denver Water**
Brian Deurloo, President & Founder, **Frog Creek Partners**
Brian Hergott, Assistant Operation Services Director, **City of Fort Collins**
Brian Rowley, Principal Civil Engineer, **Clark County Regional Flood Control District**
Brian Wortinger, Manager, Fiber Optics & Telecommunications, **Colorado Springs Utilities**
Cassie Bair, Chief Business Development Executive, **Mobile Citizen**
Catherine Rafferty, Senior Engineer, **Denver International Airport**
Dana Hoffman, Climate Transportation Manager, **City and County of Denver**
Darren Schwartzkopf, Business Development Manager - Digital Project Delivery, **Trimble - Owner & Public Sector - Western Region**
David Skuodas, Design, Construction, and Maintenance Director, **Mile High Flood District**
Deborah Turner, Senior Manager Department of Transportation & Infrastructure (DOTI) | Transportation Business Unit, **City & County of Denver**
Dennis Rose, COO, **GIS Surveyors Inc.**
Dillon Willett, Civil Engineer II, **City of Fort Collins**
Doug Benevento, 2023 Terry J. Stevinson Fellow, **Common Sense Institute**
Drew Olsen, Strategic Advisor, Heavy Civil & Infrastructure, **Procore Technologies**
Emily Bertram, Air and Radiation Division, **U.S. EPA Region 8**
Eric Coursey, General Manager, **The Broadband Group**
Eric Lowe, Local Government Project Manager, **Colorado Energy Office**
Janelle Boelter, Director of Infrastructure Management, **Las Vegas Valley Water District**
Jason McCall, Infrastructure Protection Team Office of Prevention and Security Division, **Homeland Security and Emergency Management**
Jay Decker, Transportation Innovation Manager, Department of Transportation & Infrastructure (DOTI), **City & County of Denver**
Jessica Andersen – Urban Ecology Supervisor, Planning, Design & Construction, **Denver Parks and Recreation**
Jiles McCoy, Chief Innovation and Technology Officer, **City of Golden**
Joe Eberly, Vice President of Growth & Sales Strategy, **4M Analytics**
John Gartner, Senior Director Transparency and Insights, **Center for Sustainable Energy (CSE)**
John Messner, Commissioner, **Colorado Energy and Carbon Management Commission**
Jon Villines, Watershed Manager, **Mile High Flood District**
Joshua Laipply, Chief Projects Officer, Mayor's Office, **City and County of Denver**
Keith Fuchser, Divisional Manager of Business Relationship, **Arapahoe County Information Technology**
Marc Goldman, Director – Architecture, Engineering & Construction Industry Solutions, **Esri**
MariaAngélica Deeb, Transportation Projects Coordinator, **City of Mesa, AZ**
Marisa Walker, Senior Vice President, Infrastructure, Executive Director, Institute of Automated Mobility (IAM), **Arizona Commerce Authority**
Mark Alpert, Executive Director, **Water Collaborative Delivery Association**

Martell Dyles, Sr. Manager of Diversity, and Inclusion- West Region, **JE Dunn Construction**

Matt Leckey, Director of Utility Partnerships, **NextEra Energy**

Matt Lerman, Infrastructure Program Manager, Transportation Fuels and Technology, **Colorado Energy Office**

Michael Koslow, Project Manager, Public Works – Transportation and Mobility Department, **City of Boulder**

Natricee Bryant, Public Private Partnership (P3) Director, **Colorado Department of Personnel & Administration (DPA)**

Nicholas Johnson, Chief Evangelist, **Kahua, Inc.**

Nick Caravella, Director of Thought Leadership, **Avicado Construction Technology Services, LLC**

Patrick Riley, Construction Manager - Transportation Implementation Division, **City and County of Denver**

Paul Schwabe, Senior VP and Transmission Infrastructure Program Manager, **Western Area Power Administration**

Ryan Stitt, Planning Manager-Water Rights, **Denver Water**

Sadie Martinez, DHSEM - Access and Functional Needs Coordinator, **Colorado Division of Homeland Security and Emergency Management**

Sam Anderson, Energy Specialist & Program Administrator, ACRE3 Energy Grants Program, **Colorado Department of Agriculture**

Sarah Thorne, Senior Program Manager- Transportation Fuels and Technology, **Colorado Energy Office**

Thomas Barth, Chief, Special Investigations Branch of Highway Safety, **National Transportation Safety Board**

Tim Sellers, Civil Engineer III, Project Manager, **City of Fort Collins**

Trent Thompson, IT Security Specialist, **Denver International Airport - City & County of Denver Dept of Aviation**

Tyler Dell, Sr. Civil Engineer/Stormwater Program Manager, Public Works & Engineering, **City of Longmont, CO**

Wes Kaisershot, VP, Director of Engineering, **SurvWest**

	<u>July 26</u>
6:00-8:00pm	<u>Pre-Event Reception</u>
	<u>July 27</u>
7:00am	<u>Main Event</u> <u>Registration Opens</u>
7:50-8:00	<u>Opening Remarks</u>
8:00-8:40	<u>Keynote Panel: A Deep Dive into the Evolving Landscape of Infrastructure Program Development and Investment in the Mountain States</u> The MT States have witnessed a remarkable surge in infrastructure investment lately. Landmark legislations like the Infrastructure Investment and Jobs Act, along with the Inflation Reduction Act, have significantly reshaped the prospects for

	<p>regional infrastructure leaders. Driven by the region's distinct topography and an expanding population, there's been a marked uptick in funding for transportation, energy, and water ventures. Highways have undergone upgrades and expansions to enhance connectivity and accommodate rising traffic. Meanwhile, significant investments in renewable energy projects, especially wind and solar, are harnessing the region's inherent natural assets. Water management systems have also seen significant improvements to counter drought-related challenges and ensure sustainability. These infrastructure advancements aim to bolster economic progress, elevate living standards, and foster environmental sustainability in the MT States. This panel will bring together infrastructure leaders to discuss forthcoming initiatives, programs, and investments, setting the stage for the day's overarching discussions.</p> <p>Moderator: Drew Olsen, Strategic Advisor, Heavy Civil & Infrastructure, Procore Technologies</p> <p>Panelists: Catherine Rafferty, Senior Engineer, Denver International Airport Jason McCall, Infrastructure Protection Team Office of Prevention and Security Division, Homeland Security and Emergency Management Joshua Laipply, Chief Projects Officer, Mayor's Office, City and County of Denver Natricee Bryant, Public Private Partnership (P3) Director, Colorado Department of Personnel & Administration (DPA) Sam Anderson, Energy Specialist & Program Administrator, ACRE3 Energy Grants Program, Colorado Department of Agriculture</p>
8:40-9:20	<p><u>Panel: Project Delivery – Delivering Projects More Efficiently and Cost-Effectively</u></p> <p>Infrastructure delivery in the MT States involves comprehensive planning, funding, and implementation of projects such as roads, bridges, dams, and power transmission lines. Environmental considerations, including wildlife habitats and water resources, are carefully addressed. The design phase incorporates engineering expertise to tackle challenging terrain and variable weather conditions. Competitive bidding processes ensure fairness in contractor selection, and construction activities are managed with a focus on safety, quality, and adherence to timelines. Stakeholder engagement and community involvement play a significant role in fostering support and addressing concerns throughout the project lifecycle.</p> <p>Moderator: Mark Alpert, Executive Director, Water Collaborative Delivery Association</p> <p>Panelists: Andy Rossello, Project Manager III Utilities, City of Aspen Brian Hergott, Assistant Operation Services Director, City of Fort Collins Patrick Riley, Construction Manager - Transportation Implementation Division, City and County of Denver Ryan Stitt, Planning Manager-Water Rights, Denver Water</p>

<p>9:20-10:00</p>	<p><u>Panel: Enhancing Efficiency and Improving Services Through Digital Transformation</u></p> <p>The MT States are undergoing a digital transformation in their public infrastructure to enhance efficiency and improve services. This includes the implementation of smart technologies and digital systems across various sectors. Intelligent transportation systems are optimizing traffic flow, reducing congestion, and improving safety. Smart grids are being deployed to monitor and manage energy distribution effectively. Digital platforms are enabling seamless communication and information sharing between government agencies and citizens. Additionally, the integration of data analytics and IoT devices is facilitating predictive maintenance and enhancing the resilience of infrastructure. The digital transformation of public infrastructure in the MT States is enhancing quality of life, sustainability, and economic development.</p> <p>Moderator: Darren Schwartzkopf, Business Development Manager - Digital Project Delivery, Trimble - Owner & Public Sector - Western Region</p> <p>Panelists: Anna Bunce, City Traffic Engineer, City of Centennial Janelle Boelter, Director of Infrastructure Management, Las Vegas Valley Water District Jon Villines, Watershed Manager, Mile High Flood District Keith Fuchser, Divisional Manager of Business Relationship, Arapahoe County Information Technology</p>
<p>10:00-10:30</p>	<p><u>Morning Refreshment Break</u></p>
<p>10:30-11:00</p>	<p><u>Panel: Reshaping Infrastructure in the MT States - The Role of IoT in Smart City and State Development</u></p> <p>Within the MT States, a revolution in urban development is underway, driven by smart city and IoT technologies. By leveraging IoT, a network of interlinked systems has emerged, significantly enhancing efficiency, sustainability, and residents' quality of life. IoT sensors monitor an array of metrics from traffic flow to energy usage and waste management, offering real-time data that supports informed decisions. Energy distribution has been optimized through smart grids, while intelligent transportation systems have eased mobility. Digital platforms have amplified citizen services, encouraging greater community engagement. Moreover, IoT devices play a key role in bolstering environmental conservation and promoting renewable energy use. Through such initiatives, Mountain State agencies are crafting interconnected, technologically advanced communities, heralding a superior future. This panel will host infrastructure experts who will delve into their agencies' use of IoT technologies for community betterment.</p> <p>Moderator: Marc Goldman, Director – Architecture, Engineering & Construction Industry Solutions, Esri</p>

	<p>Panelists: Jay Decker, Transportation Innovation Manager, Department of Transportation & Infrastructure (DOTI), City & County of Denver Jiles McCoy, Chief Innovation and Technology Officer, City of Golden</p>
<p>11:00-11:40</p>	<p><u>Panel: Improving Equity in Public Infrastructure</u></p> <p>Ensuring equity in public infrastructure is a critical consideration in the MT States region. Historically, marginalized communities, including Indigenous peoples and low-income populations, have faced disparities in access to quality infrastructure. Efforts are being made to address this issue by promoting equitable distribution of resources and infrastructure investments. This includes prioritizing underserved areas for infrastructure development, improving transportation connectivity to rural communities, and addressing gaps in access to clean water and reliable energy. Collaborative partnerships with local communities and stakeholders are crucial to identify needs, address systemic inequalities, and ensure that public infrastructure projects benefit all residents of the MT States region.</p> <p>Moderator: Martell Dyles, Sr. Manager of Diversity, and Inclusion- West Region, JE Dunn Construction</p> <p>Panelists: Deborah Turner, Senior Manager Department of Transportation & Infrastructure (DOTI) Transportation Business Unit, City & County of Denver Julia Masters, Microgrids for Community Resilience Program Manager, Colorado Department of Local Affairs MariaAngélica Deeb, Transportation Projects Coordinator, City of Mesa, AZ Sadie Martinez, DHSEM - Access and Functional Needs Coordinator, Colorado Division of Homeland Security and Emergency Management</p>
<p>11:40-12:10</p>	<p><u>Panel: The Impact of Artificial Intelligence on the Utility Ecosystem</u></p> <p>As companies and public agencies search to find effective ways to implement Artificial Intelligence (AI) within their organization’s processes and platforms, we look at the impact it will have on how we can utilize this technology to improve our nation’s infrastructure. In the utility industry, advancements in AI have aided in the ability to conflate large amounts of data to create highly accurate utility databases, use predictive analytics to reduce project risk, and improve the accuracy of utility mapping in the initial stages of infrastructure design and construction. AI’s impact on the efficiencies and risk mitigation related to the improvements of the nation’s infrastructure has made its way into our daily processes and is bringing our slow to adopt industry into the technological future.</p> <p>Moderator: Joe Eberly, Vice President of Growth & Sales Strategy, 4M Analytics</p>

	<p>Panelists: Aaron McClellan, Construction Technology Manager, Granite Construction Dennis Rose, COO, GIS Surveyors Inc. Wes Kaisershot, VP, Director of Engineering, SurvWest</p>
<p>12:10-12:30</p>	<p><u>Presentation: Asset Centric Project Management: Beginning with The End in Mind</u></p> <p>Ever since project management documentation transitioned online in the 1990s, a wealth of data has been created that finds use in management, mapping, and modeling systems post-project. However, this data collection often overlooks tagging vital attributes or capturing knowledge that could greatly benefit project owners. Asset Centric Project Management aims to revolutionize this by automating the gathering and transfer of asset data to be useful far beyond the project's completion.</p> <p>Envision a future where data seamlessly integrates between the project and the owner's various systems: BIM, CMMS, GIS, and more. The advent of Asset Centric Project Management is making this vision tangible. Join us to experience this transformation firsthand!</p> <p>Learning Goals:</p> <ul style="list-style-type: none"> • Strategies to identify valuable asset data before a project's initiation. • Techniques to formulate a specification for data beneficial during the project and for the asset's lifespan. • Analyzing the real cost of traditional end-of-project data collection for both contractors and owners. • Grasping the repercussions of missing or poor-quality data for facility operators, insurers, risk managers, IT and security personnel, auditors, and executives. <p>Presenter: Nicholas Johnson, Chief Evangelist, Kahua, Inc.</p>
<p>12:30-1:30</p>	<p><u>Networking Lunch</u></p> <p><u>Sponsored by Globalstar</u></p>
<p>1:30-1:50</p>	<p><u>Presentation: NTSB Investigations of the Fern Hollow Bridge collapse and Battery Electric Transit Bus Fires</u></p> <p>The NTSB investigations often focus on specific aspects of transportation safety, such as transportation infrastructure and emerging technology. This presentation looks at the examples of the Fern Hollow bridge collapse which occurred in Pittsburgh on January 22, 2022, and three fires involving Battery Electric Transit Buses (BETBs) that occurred and municipal transit authorities in June to November 2022. The sequence of events are presented along with observations regarding the infrastructure and the implementation of BETB fleets.</p>

	<p>Presenter: Thomas Barth, Chief, Special Investigations Branch of Highway Safety, National Transportation Safety Board</p>
<p>1:50-2:30</p>	<p><u>Panel: EV Infrastructure in the Mountain States</u></p> <p>The MT States are seeing a growing focus on electric vehicles (EVs) and the need for robust charging infrastructure. With the aim of reducing greenhouse gas emissions and promoting sustainable transportation, states like Colorado, Utah, and Nevada are actively promoting EV adoption. Efforts include expanding the availability of charging stations along major highways, in urban areas, and at commercial establishments. Utilities are partnering with public and private entities to develop charging networks and implement smart charging solutions. State incentives and grants are also being offered to accelerate EV adoption and infrastructure development. These initiatives are vital to support the transition to cleaner transportation options in the MT States.</p> <p>Moderator: Abby Thomas, Area Sales Manager — South Central Region, US, ABB</p> <p>Panelists: John Gartner, Senior Director Transparency and Insights, Center for Sustainable Energy (CSE) Marisa Walker, Senior Vice President, Infrastructure, Executive Director, Institute of Automated Mobility (IAM), Arizona Commerce Authority Matt Leckey, Director of Utility Partnerships, NextEra Energy Matt Lerman, Infrastructure Program Manager, Transportation Fuels and Technology, Colorado Energy Office</p>
<p>2:30-3:00</p>	<p><u>Panel: Broadband Development – Bridging the Digital Divide</u></p> <p>Broadband infrastructure in the MT States is a critical aspect of ensuring digital connectivity and access to the internet. The region comprises vast and sparsely populated areas, presenting challenges for broadband deployment. Efforts are underway to bridge the digital divide and improve internet access in rural and underserved communities. State and federal initiatives are providing funding for broadband expansion projects, including the deployment of fiber-optic networks and wireless technologies. Public-private partnerships are also playing a role in extending broadband coverage. These infrastructure investments aim to enhance educational opportunities, promote economic development, and improve access to healthcare and other online services in the MT States.</p> <p>Moderator: Eric Coursey, General Manager, The Broadband Group</p> <p>Panelists:</p>

	<p>Brian Wortinger, Manager, Fiber Optics & Telecommunications, Colorado Springs Utilities Cassie Bair, Chief Business Development Executive, Mobile Citizen</p>
3:00-3:30	<p><u>Afternoon Refreshment Break</u></p>
3:30-4:10	<p><u>Panel: Stormwater Infrastructure</u></p> <p>Stormwater infrastructure in the MT States is designed to manage precipitation and prevent flooding in the mountainous terrain. While the region may experience less rainfall compared to other areas, intense storms and snowmelt can pose significant challenges. Infrastructure includes stormwater management systems such as detention and retention basins, channels, and culverts. These structures help control the flow of stormwater, prevent erosion, and protect communities from flash flooding. In addition, green infrastructure techniques like rain gardens and permeable surfaces are being implemented to reduce runoff and promote natural infiltration. These stormwater infrastructure measures ensure the resilience and safety of the MT States’ communities.</p> <p>Moderator: Brian Deurloo, President & Founder, Frog Creek Partners</p> <p>Panelists: Brian Rowley, Principal Civil Engineer, Clark County Regional Flood Control District David Skuodas, Design, Construction, and Maintenance Director, Mile High Flood District Tyler Dell, Sr. Civil Engineer/Stormwater Program Manager, Public Works & Engineering, City of Longmont, CO</p>
4:10-4:40	<p><u>Panel: Urban Mobility: Rethinking the Future of Transportation</u></p> <p>Urban mobility in the MT States is a critical aspect of transportation planning. With growing populations and increasing congestion, ensuring efficient and sustainable mobility is essential. Strategies often include improving public transportation systems, expanding bike lanes and pedestrian infrastructure, implementing smart traffic management systems, and promoting ridesharing and carpooling options. Additionally, integrating emerging technologies and electric vehicles into the transportation network is a focus for enhancing sustainability. Collaborative efforts among government agencies, city planners, transportation authorities, and community stakeholders are crucial to developing integrated and multimodal transportation solutions that address the unique challenges posed by the mountainous terrain and meet the evolving needs of urban residents.</p> <p>Moderator: Andrea McCarthy, Senior Transportation Analyst, Brendle Group</p> <p>Panelists: Dillon Willett, Civil Engineer II, City of Fort Collins</p>

	<p>Michael Koslow, Project Manager, Public Works – Transportation and Mobility Department, City of Boulder Sarah Thorne, Senior Program Manager- Transportation Fuels and Technology, Colorado Energy Office</p>
<p>4:40-5:20</p>	<p><u>Panel: Energy Infrastructure – A Sustainable Energy Future</u></p> <p>The MT States are embracing a sustainable energy future with a shift towards renewable sources. States like Colorado, Utah, and Nevada are setting ambitious clean energy goals and implementing policies to promote renewable energy development. Investments in wind, solar, and geothermal projects are increasing, leveraging the region's abundant natural resources. This transition offers numerous benefits, including reduced carbon emissions, improved air quality, and job creation. Additionally, the adoption of energy storage technologies and smart grid systems enhances grid reliability and resilience. Collaborative efforts between government, utilities, and communities are driving the region towards a sustainable energy future that supports economic growth while preserving the environment.</p> <p>Moderator: Doug Benevento, 2023 Terry J. Stevinson Fellow, Common Sense Institute</p> <p>Panelists: Adam Berry, Senior Program Manager, Colorado Energy Office Agnieszka Hernandez, Project Manager IV, Energy Resource Planning, Colorado Springs Utilities Eric Lowe, Local Government Project Manager, Colorado Energy Office John Messner, Commissioner, Colorado Energy and Carbon Management Commission Paul Schwabe, Senior VP and Transmission Infrastructure Program Manager, Western Area Power Administration</p>
<p>5:20-6:00</p>	<p><u>Panel: Climate-Resilient Infrastructure</u></p> <p>Climate change is impacting the MT States region, necessitating adaptations in infrastructure. Rising temperatures, reduced snowpack, and altered precipitation patterns affect water resources, agriculture, and ecosystems. Infrastructure must adapt to mitigate these impacts. This includes updating water management systems to enhance efficiency and resilience, investing in renewable energy sources, and developing transportation infrastructure to support alternative modes of transportation. Additionally, infrastructure needs to be designed to withstand extreme weather events such as wildfires, floods, and heatwaves. Climate-resilient infrastructure planning and investments are crucial to ensure the region can adapt to and mitigate the challenges posed by climate change in the MT States. This panel will feature senior environmental and climate leaders from key agencies in a discussion on how climate related issues are impacting infrastructure development decisions.</p> <p>Moderator:</p>

	<p>Nick Caravella, Director of Thought Leadership, Avicado Construction Technology Services, LLC</p> <p>Panelists:</p> <p>Austin Krcmarik, Water Efficiency Lead, Denver Water</p> <p>Dana Hoffman, Climate Transportation Manager, City and County of Denver</p> <p>Emily Bertram, Air and Radiation Division, U.S. EPA Region 8</p> <p>Jessica Andersen – Urban Ecology Supervisor, Planning, Design & Construction, Denver Parks and Recreation</p>
6:00	<p><u>Event Close and Closing Reception</u></p>