



2026 D.C. QUALITY INITIATIVE CONFERENCE

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THROUGH INNOVATION

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INSIDE THE PROGRAM

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ABOUT DCQI

The mission of DCQI is to provide the District's transportation industry a forum that fosters innovation, networking and continuous coordinated quality improvement to ensure a safe, efficient and environmentally sensitive transportation system that meets the needs of all transportation stakeholders.

DCQI PARTNERS



WELCOME TO DCQI

A MESSAGE FROM THE STEERING COMMITTEE

Welcome to the 2026 DCQI Conference! On behalf of the DCQI Steering Committee, thank you for joining us for a day dedicated to Improving Transportation Through Innovation. Today brings together public agencies, industry professionals, researchers, and students from across the District, Maryland, and Virginia to share ideas, strengthen partnerships, and learn from one another.

Our region's transportation challenges require both practical experience and fresh perspectives. DCQI provides a forum to connect those perspectives, with conversations about the projects, technologies, and approaches that can help us build a safer, more efficient, and more resilient transportation system.

We begin with the Metropolitan Project Opportunities session, offering insight into agency priorities, upcoming work, and opportunities for collaboration. Throughout the day, our technical sessions will explore lessons learned from regional projects and advances in infrastructure, mobility, safety, and project delivery. We encourage you to ask questions, share your experiences, and bring these discussions back to your teams.

This year, we are especially excited to introduce our Student Research Lightning Presentations, giving emerging transportation professionals an opportunity to share their work and connect with practitioners. We will also close the day with our inaugural DCQI Awards Program, recognizing infrastructure impact, innovation in mobility, and visionary leadership across our region.

Thank you to our speakers, sponsors, exhibitors, partner organizations, volunteers, and steering committee members for making this conference possible. Your time, expertise, and support help DCQI continue to grow and serve the transportation community. Whether this is your first DCQI Conference or you have joined us for years, we hope you leave with useful ideas, new connections, and renewed enthusiasm for the work ahead. Thank you for being part of the conversation.

With appreciation,

The DCQI Steering Committee



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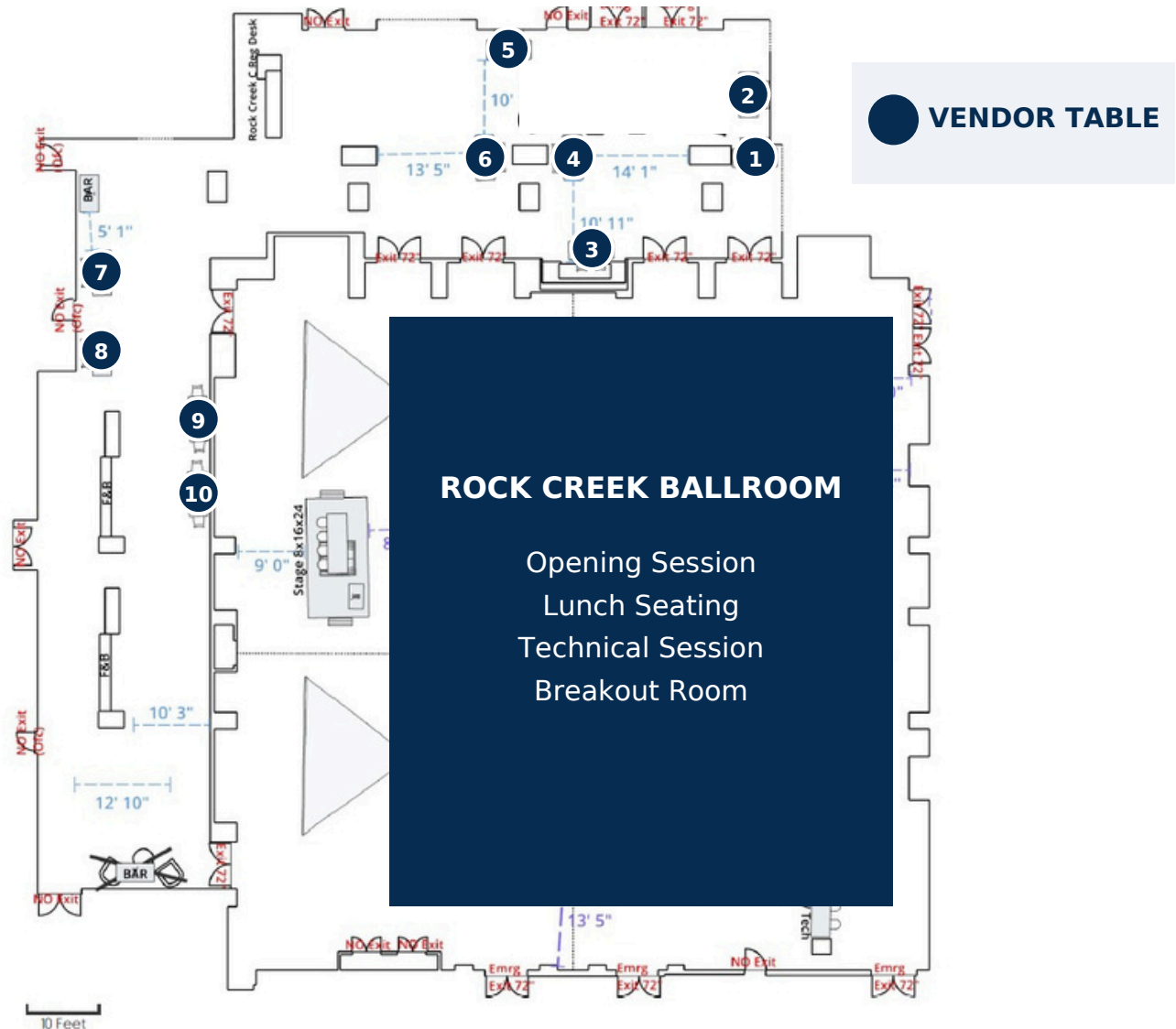
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EXHIBITOR FLOORPLAN

Ballroom Level | The Westin Washington, DC Downtown



MEET OUR EXHIBITORS

- | | |
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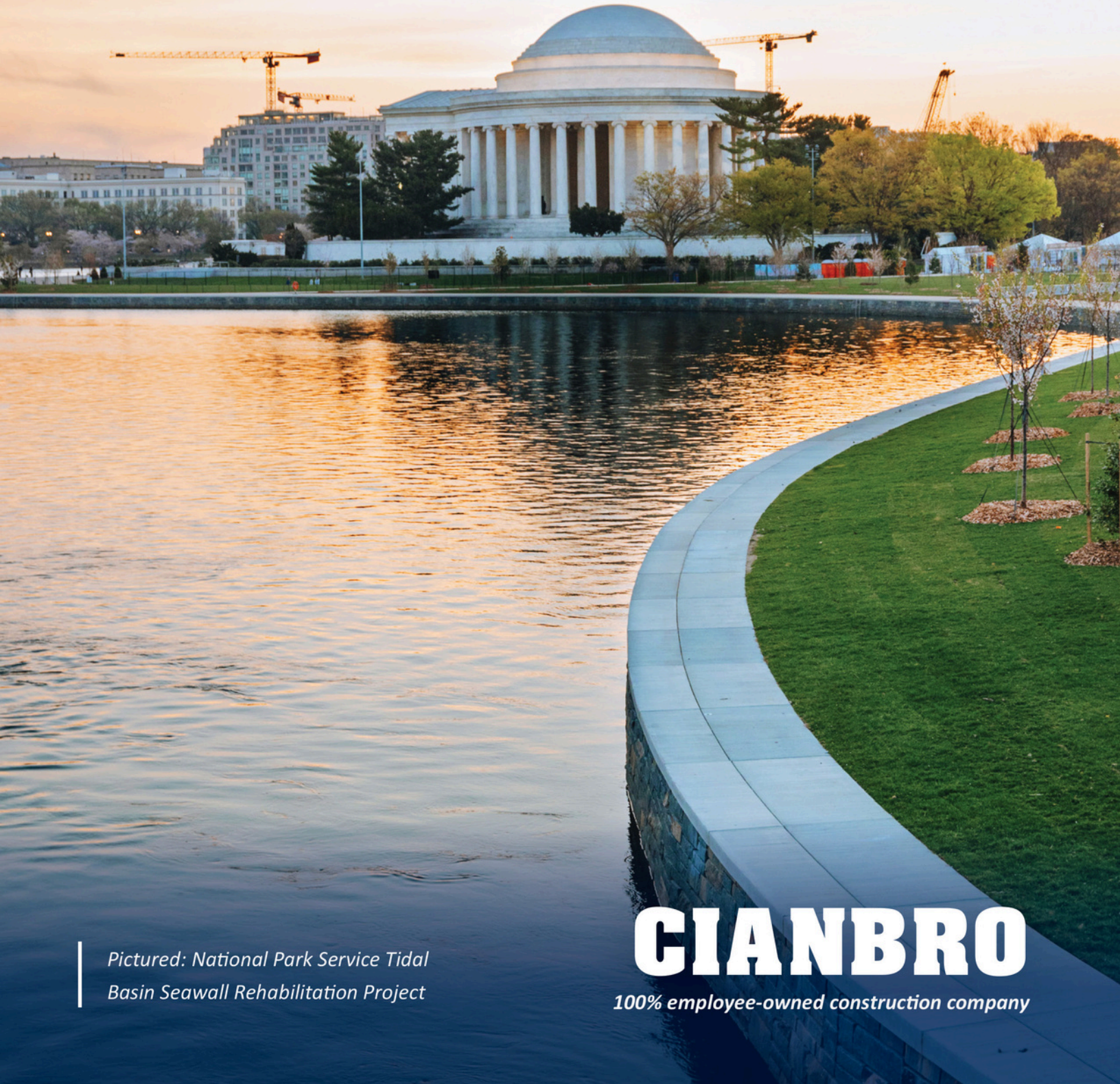
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CONFERENCE HIGHLIGHTS

CONNECT WITH REGIONAL AGENCIES

METROPOLITAN PROJECT OPPORTUNITIES MEETING

Hear directly from agency partners about upcoming projects, transportation priorities, and opportunities for collaboration across the District and the region.



NEW FOR 2026

Innovation in Motion: NextGen Lightning Talks

1:00-2:00PM | RIVER BIRCH B

Meet the next generation of transportation innovators. In this fast-paced session, student teams will share transportation-related research and innovative project work through five-to-seven-minute Lightning Presentations. Hear fresh perspectives on safety, infrastructure, and mobility as teams highlight the challenges they explored, what they learned, and how their work could shape real-world transportation solutions.

FRESH IDEAS. PRACTICAL APPLICATIONS.

Short presentations, followed by time to connect with students and explore the tools and ideas behind their research.



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CELEBRATING QUALITY

Awards Presentation & District Networking Reception

3:30-5:00 PM | Rock Creek Ballroom

Join us for the inaugural DCQI Awards Program, celebrating the people, projects, and partnerships advancing quality across our region. Connect with colleagues and congratulate the teams behind this year's achievements.

3:30-5:00 PM

Networking Reception

4:00-5:00 PM

Awards Presentation

VISIONARY LEADERSHIP AWARD

Honors a transportation leader whose vision, collaboration, and leadership have made a lasting impact on infrastructure, mobility, and regional transportation initiatives across the Washington metropolitan area.



2026 AWARD RECIPIENT

Randy Clarke

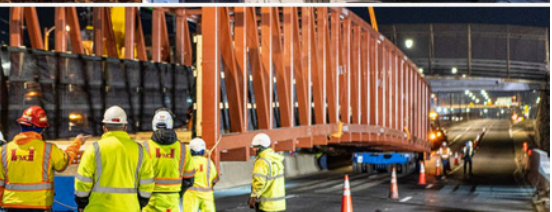
General Manager & Chief Executive Officer
Washington Metropolitan Area Transit Authority (WMATA)

Recognized for leadership and partnership that have strengthened Metro and the region's transportation network.

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Celebrate this year's honorees and connect with the people behind the work!



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PROJECT AWARD HONOREES

Recognizing impact, innovation, and regional partnership

INFRASTRUCTURE IMPACT AWARD

Celebrates a transportation project or program delivering measurable improvements to mobility, accessibility, safety, or regional connectivity across the capital region.

2026 AWARD RECIPIENT

National Mall Seawalls and Shoreline Rehabilitation

National Park Service • Cianbro Corporation • Mott MacDonald

Restoring historic seawalls, protecting waterfront pathways, and improving safe public access to one of the nation's most visited landscapes.

SHORTLISTED TEAMS

MCDOT Bridge Preservation Program — Montgomery County DOT and Stantec

GWMP North Parkway Rehabilitation — Fort Myer Construction and WSP

INNOVATION IN MOBILITY AWARD

Recognizes a project, initiative, organization, or team advancing transportation through innovative technologies, delivery methods, or solutions that improve mobility and infrastructure.

2026 AWARD RECIPIENT

DDOT Multimodal Measures of Effectiveness Tool (MET)

DDOT • Mead & Hunt • JMT

Giving the region a better way to evaluate how streets serve every user, with a framework for multimodal access, amenities, safety, and performance.

SHORTLISTED TEAMS

DC PLUG Program — AMT LLC, DDOT, and Pepco

North Capitol Street Concept and Design Project — DDOT and the PSI-led team



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AGENDA AT A GLANCE

7:30-8:30 AM		REGISTRATION, BREAKFAST & EXHIBITS	
8:30-10:15 AM		METROPOLITAN PROJECT OPPORTUNITIES (Opening Session) Presentations by: DDOT, VDOT, WMATA, DGS, & DC Water	
10:15-10:45 AM		COFFEE, NETWORKING & EXHIBITS	
10:45-11:45 AM SESSION I			
ROCK CREEK BALLROOM	RIVER BIRCH A	RIVER BIRCH B	
The MET: Measuring the Completeness of Complete Streets Lessons Learned From the Pedestrian Bridge Over Arizona Avenue, NW and Connecting Trail	Beyond the Bench: Reimagining Seat Walls as Public Infrastructure LiDAR Applications in Traffic Signals: Detection, Actuation, and Time Extension	Moving Toward Digital Infrastructure for Transportation Operations	
11:45 AM-1:00 PM		NETWORKING LUNCH & EXHIBITOR CONNECTIONS Buffet: 11:45 AM - 12:30 PM Networking and exhibits until 1:00 PM	
1:00-2:00 PM SESSION II			
ROCK CREEK BALLROOM	RIVER BIRCH A	RIVER BIRCH B	
Transit Infrastructure & Project Delivery in a P3 Ecosystem Green Infrastructure on Embassy Row: Lessons from a High-Profile Constrained Urban Corridor	Transit Tunnel Resilience Through Leak Mitigation Holmes Run Trail Flood Damage Repair	Innovation in Motion: NextGen Lightning Talks	
2:00-2:30 PM		COFFEE, NETWORKING & EXHIBITS	
2:30-3:30 PM SESSION III			
ROCK CREEK BALLROOM	RIVER BIRCH A	RIVER BIRCH B	
Advancing Transportation Safety in the DC/DMV Region Through AI-Driven Innovation	From Digital Tickets to Safer Work Zones: Advancing e-Construction and Work Zone Safety in the DMV Area	Next-Generation Analytics Partnership: Closing the Gap Between Data, Talent & Agency Capacity Scaling Infrastructure Assessments: Asset Data Collection & Evaluation	
3:30-5:00 PM		AWARDS PRESENTATION & DISTRICT NETWORKING RECEPTION	

EXPLORE THE TECHNICAL SESSIONS

COMPLETE STREETS

10:45 AM - 11:45 AM | Rock Creek Ballroom | 1 PDH

The MET: Measuring the Completeness of Complete Streets

Presented by: Mead & Hunt | DDOT

Presenters: Allysha Lorber, Community Planning Department Manager, Mead & Hunt | Zhibo Zhang, Traffic Engineering Analysis Branch Manager, DDOT

The multimodal Measures of Effectiveness Tool (The MET), developed through DDOT's moveDC initiative, helps evaluate transportation improvements using Complete Streets and Vision Zero principles rather than focusing solely on vehicle capacity. The tool incorporates criteria across all travel modes—including pedestrians, bicyclists, transit users, micromobility devices, freight, and vehicles—and generates scores that allow alternatives to be compared based on safety and overall benefits. DDOT is currently piloting an online version of The MET, with agency-wide use on corridor improvement projects anticipated by 2027, and this session will introduce the tool and demonstrate its application.

Lessons Learned From the Pedestrian Bridge Over Arizona Avenue, NW and Connecting Trail

Presented by: Athavale, Lystad & Associates | DDOT

Presenters: Jean-Claude Segatagara, Senior Civil Engineer - Project Manager, Athavale, Lystad & Associates | Tshreya Bhattarai, Project Manager, DDOT

This project addresses both accessibility and safety in further developing the District's pedestrian and trail network, connecting Galena Place, NW to Sherier Place, NW via an improved trail surface while also providing improved access to the Palisades Recreation Center. At the heart of the project is the replacement of a 50-year-old prestressed concrete beam bridge that no longer meets current safety clearance standards. The rehabilitation converts the structure to a prefabricated steel box truss with minimal camber, preserving a similar overall height and horizontal profile.

The project required a sustained effort of early stakeholder engagement, active listening, and willingness to adapt to the priorities of the community, utility providers, and with reviewing agencies alike. That approach was instrumental both in garnering public support and in securing timely interagency approvals.

EXPLORE THE TECHNICAL SESSIONS

SMART MOBILITY & SAFETY

10:45 AM - 11:45 AM | River Birch A | 1 PDH

Beyond the Bench: Reimagining Seat Walls as Public Infrastructure

Presented by: Capital Curbs & Barriers

Presenters: Robert Huffman, Founder, Capital Curbs & Barriers, Owner & CEO, ScandiCurb USA

A seat wall can do more than hold someone's coffee. This session traces continuously extruded, cast-in-place concrete from its roots in landscape edging to a construction method now shaping how public space is seated, organized, and moved through — with less forming, less material, less site disruption, and none of the curves or design intent lost along the way.

Drawing on completed work, including a large-scale civic plaza installation, we'll show what this method actually saves on real projects. Then we'll go further: an emerging concept that builds an engineered structural core, foundation system, and reinforcement into the same extruded form — asking whether the seat wall people already sit on could also help protect the space around them. We'll be candid about what that idea still needs — engineering, testing, and approval — before it's ready for public use.

LiDAR for Traffic Signals: Detection, Actuation & Time Extension

Presented by: Morgan State University | Mead & Hunt

Presenters: Mansoureh Jeihani, Professor & Director, Morgan State University | Anam Ardeshiri, Department Manager, Mead & Hunt

LiDAR is emerging as a powerful tool for enhancing the safety and operation of signalized intersections through highly accurate, anonymous detection of vehicles and pedestrians. This session highlights real-world deployments where LiDAR supports vehicle detection, pedestrian actuation, pedestrian clearance interval extensions, and vehicle all-red extensions to reduce conflict risk. The presentation also discusses implementation challenges, lessons learned, and opportunities for broader deployment of LiDAR-based traffic signal applications.

EXPLORE THE TECHNICAL SESSIONS

DIGITAL INFRASTRUCTURE

10:45 AM - 11:45 AM | River Birch B | 1 PDH

Moving Toward Digital Infrastructure for Transportation Operations

Presented by: Johnson, Mirmiran & Thompson | Delion Consulting LLC

Presenters: Glenn Havinoviski, VP / Smart Mobility Market Leader, JMT | Carole Delion, Founder & CEO, Delion Consulting LLC

This presentation will address national and regional initiatives to support interoperable, connected transportation services. Digital infrastructure builds on the work done over the past three decades in developing regional Intelligent Transportation Systems, including traveler information services, the development of both public-sector traffic sensor infrastructure and private-sector probe data, and the exchange of real-time data and coordination between public agencies. Digital infrastructure scales these considerations to a broader national perspective. This perspective encompasses Interstate corridors, the growth of vehicle automation, and the need to provide connectivity between vehicles and infrastructure to enable advanced data and intelligence and to coordinate with first responders in the event of an incident. Many activities over the years, including in the Washington, DC, area, have served as precursors to Digital Infrastructure development, and this presentation will examine both the benefits and the next steps to move this forward.

EXPLORE THE TECHNICAL SESSIONS

TRANSIT PROJECT DELIVERY

1:00 PM - 2:00 PM | Rock Creek Ballroom | 1 PDH

Transit Infrastructure & Project Delivery in a P3 Ecosystem

Presented by: Maryland Transit Administration

Presenters: Ray Biggs II, Senior Project Director, MDOT MTA

This session will present coordinated executive-level perspectives from across the Purple Line P3 ecosystem and discuss how lifecycle accountability across a 30+ year partnership has shaped decision-making while the project remains actively under delivery, particularly during the most complex and risk-intensive phase when capital execution must align with safety certification, operational readiness, and long-term asset performance.

Green Infrastructure on Embassy Row: Lessons from a High-Profile Constrained Urban Corridor

Presented by: Precision Systems, Inc.

Presenters: Allen Yang, Senior Vice President, Precision Systems, Inc.

The Embassy Row corridor rehabilitation along Massachusetts Avenue NW provides a case study in integrating green infrastructure into a prominent, constrained urban transportation corridor. The presentation explores how roadway rehabilitation, pedestrian and multimodal improvements, traffic operations, utilities, public access, and features such as bioretention, permeable surfaces, stormwater facilities, and tree-canopy enhancements can be coordinated without compromising safety, mobility, or constructability. It highlights the importance of early multidisciplinary and stakeholder coordination, particularly in a corridor with embassies, transit activity, mature trees, limited staging areas, and high public visibility. Attendees will gain practical lessons for balancing environmental performance, transportation operations, constructability, and community context in established urban rights of way.

EXPLORE THE TECHNICAL SESSIONS

INFRASTRUCTURE RESILIENCY

1:00 PM - 2:00 PM | River Birch A | 1 PDH

Transit Tunnel Resilience Through Leak Mitigation

Presented by: WSP USA, Inc. | WMATA

Presenters: Brian Zelenko, Senior Vice President, WSP USA, Inc. | Stephen Powers, Senior Program Manager, WMATA

How do we preserve and maintain our tunnel assets so that they can be more resilient and continue to safely move the travelling public well into the future? Despite decades of band-aid mitigation approaches, water leaking into WMATA's tunnels was causing degradation of rail equipment and tunnel fires leading to significant transit service disruptions. WMATA initiated an innovative sole-source pilot program in 2017 to demonstrate the suitability of positive-side curtain grouting into open joints and voids in the surrounding ground. Demonstrating the originality and innovation of tunnel leak mitigation utilizing positive side curtain grouting for WMATA, this presentation will address the 3.5 miles of tunnel leak mitigation work recently completed in two sections of the Red Line Tunnels in Silver Spring, MD and Washington, DC.

Holmes Run Trail Flood Damage Repair

Presented by: Stantec

Presenters: Degang "Doug" Li, Senior Associate, Stantec | Gregor Fahrendorf, Senior Associate, Stantec | Steve Zeender, Senior Associate, Stantec

The Holmes Run Trail (HRT) Flood Damage Repair project exists within three distinct urban neighborhoods along Holmes Run, in the City of Alexandria, Virginia. A significant flash flood in 2020 damaged the HRT at each of the three locations. The presentation will focus on the design and construction of a 6-cell box culvert at Site 1, replacement of a damaged pedestrian bridge at site 2, and rehabilitation of failed soldier pile retaining wall at Site 3. It will also talk about the challenges during design and construction. The construction at Site 2 & 3 was completed in 2025. The construction at Site 1 is expected to complete in Fall 2026.

EXPLORE THE TECHNICAL SESSIONS

STUDENT INNOVATION

1:00 PM - 2:00 PM | River Birch B | 1 PDH

Innovation in Motion: NextGen Lightning Talks

Presented by: Emerging researchers

Meet the next generation of transportation innovators. In this fast-paced session, student teams will share transportation-related research and innovative project work through five-to-seven-minute Lightning Presentations. Hear fresh perspectives on safety, infrastructure, and mobility as teams highlight the challenges they explored, what they learned, and how their work could shape real-world transportation solutions.

AI & TRANSPORTATION SAFETY

2:30 PM - 3:30 PM | Rock Creek Ballroom | 1 PDH

Advancing Transportation Safety in the DC/DMV Region Through AI-Driven Innovation

Presented by: AtkinsRéalis

Presenters: Chris Ziemann, Local Transportation & Roads Lead, AtkinsRéalis | Dan Corey, Vice President, Technology Services | AtkinsRéalis

AI and machine learning can help DDOT advance Vision Zero and Safe System goals by accelerating large-scale roadway inventories needed for systemic safety planning and more informed investment decisions. Drawing on proven applications in Texas and Illinois, the session will show how an internal Python-based tool used roadway imagery (like Google Streetview) to classify lighting and traffic-control features at approximately 12,000 intersections in two weeks. The presentation will also explain what is required to adapt this approach to additional urban and multimodal features, especially in DC, including targeted model training and integration with agency data systems, and how cities like Alexandria VA have already started piloting technology to improve safety. Attendees will learn how this technology can augment professional judgment, community engagement, and existing safety practices in creating safer, smarter, and more equitable transportation systems in DC and other urban jurisdictions.

EXPLORE THE TECHNICAL SESSIONS

WORK ZONE INNOVATION

2:30 PM - 3:30 PM | River Birch A | 1 PDH

From Digital Tickets to Safer Work Zones: Advancing e-Construction and Work Zone Safety in the DMV Area

Presented by: HaulHub Technologies

Presenters: Zach Ernst, Government Solutions Manager, HaulHub Technologies

Learn how agencies in the DMV area are leveraging e-Ticketing and other existing and emerging technologies to advance project management, material quality and Work Zone Safety. HaulHub Technologies is a primary partner in these efforts, hear from Government Solutions Manager for the Northeast, Zach Ernst, as he discusses real world examples of these efforts, and how they continue to expand.

DATA & ASSET MANAGEMENT

2:30 PM - 3:30 PM | River Birch B | 1 PDH

Next-Generation Analytics Partnership: Closing the Gap Between Data, Talent & Agency Capacity

Presented by: Traffic Systems & Technology

Presenters: Roger Hale, Vice President of Sales & Marketing, Traffic Systems & Technology

Across the transportation industry, data is growing faster than the workforce available to turn it into decisions. The Nexus, developed by TS&T and incubated at Johns Hopkins University, helps close that gap by uniting students and universities, public agencies, consultants, and private industry around live operational data. This session shares how the model works, highlights a pilot with Prince George's County that put students to work on live Lidar data, and shows where your organization fits.

Scaling Infrastructure Assessments: Asset Data Collection & Evaluation

Presented by: Transconomy LLC

Presenters: Haniya Ahmad, Customer Success Manager, Transconomy LLC

This presentation examines a case study of rapid, network-wide infrastructure data collection using imagery-based methods and automated asset extraction. The focus is on how large-scale roadway networks can be assessed efficiently while maintaining acceptable levels of data quality and consistency. Key components include planning for data capture at scale, structuring datasets for multi-asset analysis, and implementing QA/QC procedures to validate outputs across diverse roadway environments.

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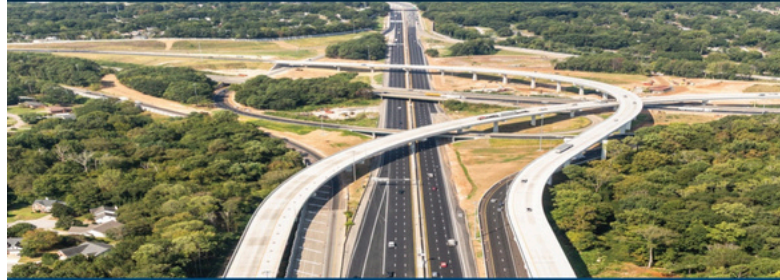
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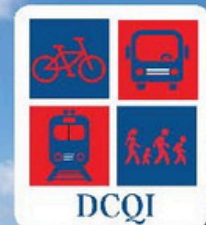
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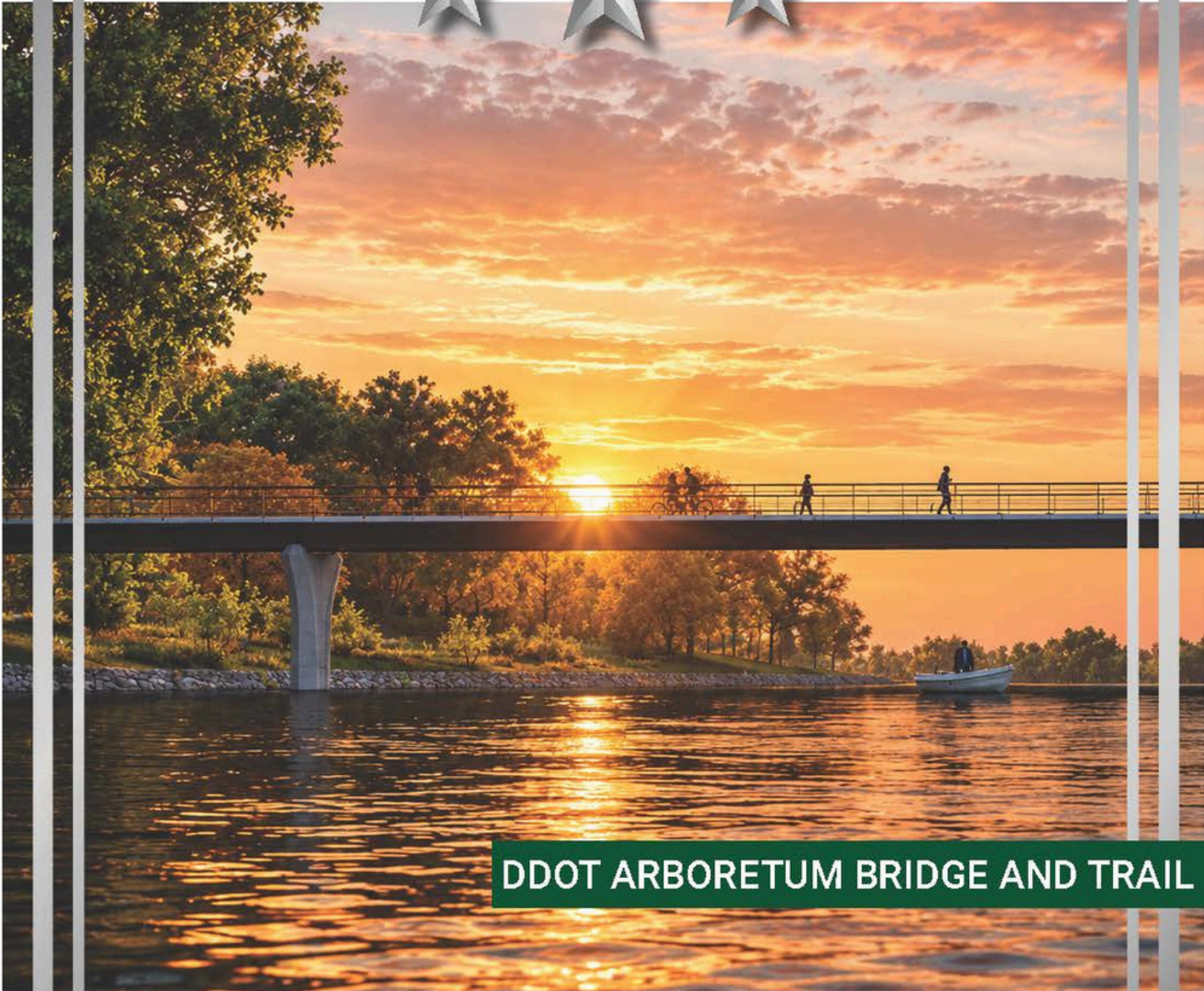


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NOTES

Ideas, connections, and next steps.

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