

TECHNICAL SESSION AGENDA | MONDAY (3/23)

TIME: 10:30A – 12:00P

ROOM: E2190

Engineering Your Career – Success Beyond the Technical

Collaboration between the North Carolina Department of Transportation (NCDOT), City of High Point, and Gresham Smith.

This session will focus on the professional development of young engineers, equipping them with the tools and perspectives needed to grow into well-rounded leaders.

The format will feature a panel discussion with a diverse group of mid-career and senior professionals who can share both lessons learned and practical strategies, focusing on Stepping into Management, Networking and Connections, Salary and Cost Negotiations, and Beyond the 40-hr Work Week.

Session Sponsor: Gresham Smith

Session Speakers

Sarah Wilson:
Transportation Engineer-City of High Point

Meredith Cebelak, PhD, P.E.:
Transportation State Leader - North Texas Gresham Smith

Matthew Carlisle, P.E.:
Acting State Transportation Systems Management and Operations Engineer for NCDOT

Michael Varner, P.E.:
TSMO Service Leader - Gresham Smith

ROOM: E219B/C

Roadside Unit Deployments – Lessons Learned

This session will provide a quick background on RSUs and their role in connected vehicles (CV) and V2X ecosystems. Panelist discussion will focus on real-world deployment experience, deployment hurdles, interoperability & standards, operations & maintenance lifecycle, and strategic lessons.

Session Sponsor: Iteris

Session Speakers

Dean Gustafson, P.E., PTOE:
Vice-President Mobility Operations Services - Iteris

SAID EL SAID, P.E., PHD:
Transportation Systems Manager - Neel-Schaffer

Usha Nadella, P.E.:
Project Manager - Arcadis

Josh Brown:
Director of Traffic Operations Division - TDOT

Danilo Radivojevic:
Senior Product Manager - Iteris

ROOM: E219A

Replicability of Innovative Technology

This session will focus on the replicability of innovative solutions for technology projects, providing the audience with actionable information to leverage and implement in their own deployments.

The ITS4US Deployment Program sites (GDOT and Buffalo) have implemented multimodal complete trip applications that are open-sourced and available for broader use. Sharing more about these deployments will allow other practitioners to understand available resources for replication and expansion. Furthermore, there have been many lessons learned over the course of implementing new deployments in projects such as NCDOT's Strengthening Mobility and Revolutionizing Transportation (SMART) Grant Program project and Atlanta and Buffalo's deployments in the ITS4US Program.

These sites offer extensive lessons to share related to the complexities of deploying and integrating emerging technology projects.

Session Sponsor: ICF

Session Speakers

Joseph Hacker:
Principal Planner for Transportation Technology and Operations at the Atlanta Regional Commission

Kelly Wells, P.E.:
Traveler Information Engineer - NCDOT

Deepak Gopalakrishna:
Vice President – ICF

ROOM: E216ABCD

V2X Tolling - New Payment Technologies

V2X Toll introduces a transformative tolling model where toll agencies and automakers (Original Equipment Manufacturers, OEMs) collaborate within a new digital ecosystem to capture toll transactions by connected vehicles and seamlessly process payments.

While OEMs assume the role of service providers in this ecosystem, toll agencies remain central to the deployment, governance, and validation of this technology, as the owners of toll facilities. Their participation is therefore essential to adapting infrastructure, validating transactions, ensuring compliance, and shaping the future of tolling standards.

During the session, Indra will moderate the panel as an expert in C-V2X Toll, guiding the discussion between other panel members including NCTA Executive Director JJ Eden, an executive from another major Southeast U.S. tolling agency (TBQ), and an OEM (TBC).

The session will also discuss the potential business model that is powered by Cellular Vehicle-to-Everything(C-V2X) communication, enabling direct interaction between vehicles and roadside units (RSUs).

A representative from Qualcomm will explain its technology foundations, including the J3217 standard created by the Society of Automotive Engineers (SAE) International. This standard ensures national interoperability and supports future expansion beyond the U.S., aligning with global mobility trends.

Session Sponsor: Indra

Session Speakers

Daniel Garrido Rubio:
Business Manager, Tolling and ITS - Indra USA

Jason Conley:
Executive Director - OmniAir Consortium

John Egger:
Senior ITS Manager - STV

JJ Eden:
CEO - NCTA's

Katherine Mertz:
US Director of Sales - Cohda Wireless

ROOM: E219D

Beyond Mixed Traffic: Reinventing Transit with Intelligent Systems

ITS projects are often framed around autonomous vehicles in mixed traffic, but their most transformative potential may be in redefining public transit itself. Autonomous Transit Networks (ATNs) like Glydways offer a cost-effective, on-demand, and high-capacity solution that bridges critical gaps between airports, downtowns, and surrounding communities. By using small, dedicated, automated vehicles on narrow, elevated, or at-grade guideways, these systems provide nonstop service at a fraction of the cost of rail or Bus Rapid Transit (BRT), while avoiding congestion and maximizing land use efficiency.

Session Sponsor: HNTB

ROOM: E219B/C

Data and Artificial Intelligence for TransportationPanel Session 1 (40 min): What does the Future of Transportation Technology Look Like

This panel brings together experts from Jacobs, PennSTART, and the Florida Department of Transportation to discuss how emerging mobility technologies can be safely tested and validated before deployment. Panelists will explore the value of controlled testing environments, collaboration between public and private partners, and strategies for accelerating innovation while minimizing risks to the traveling public.

Panel Session 2 (45 min): Big Data for Transportation Operations

This panel session highlights how agencies are using advanced analytics and large-scale data platforms to enhance operations and decision-making. Speakers from Jacobs, PA Consulting, StreetLight Data, the Florida Turnpike Enterprise, and Beacon will examine practical use cases where big data improves system performance, supports proactive management, and enables more informed planning.

Session Sponsor: Jacobs

Session 1 Speakers**Natasha Walia, P.E.:**

Regional Market Solutions Lead - US West Jacobs Engineering Group Inc

Peter Castell:

Director - PennSTART

Pamela Foster:

SunTrax Strategic Development Manager - FDOT

Session 2 Speakers**Ernest Sackey, P.E., CVP:**

US Southeast Regional Market Solutions Lead - Jacobs Engineering Group Inc

Rahul Gupta:

Partner - PA Consulting

Ted Reinhold:

Senior Solution Engineering Manager - StreetLight

John Easterling, P.E., PTOE:

District Traffic Operations Engineer - FDOT - Turnpike

Jim Anderson:

CEO - Beacon Software Development

ROOM: E219A

Hurricane Resiliency in Transportation Operations

Innovative technologies, strategic traffic operations, and critical cross-agency collaboration are at the heart of modern emergency preparedness and response.

This dynamic panel session will explore how Departments of Transportation (DOTs) across multiple states are leveraging cutting-edge solutions to enhance system resilience in the face of increasingly severe hurricanes and extreme weather events.

Representatives from five or more state DOTs will share firsthand insights from recent hurricane responses, highlighting the proactive planning, adaptive strategies, and operational innovations that are shaping the future of emergency transportation management.

From real-time traffic coordination to infrastructure hardening and digital tool integration, this session will showcase the diverse approaches being used to safeguard mobility and public safety during crisis events.

Session Sponsor: AtkinsRealis

ROOM: E216ABCD

Maximizing Your Probe Vehicle Data

For its initial 15 years in the transportation industry, probe vehicle data (PVD) evolved from an interesting concept to a trusted data source for real-time operations.

Primarily reporting wide-area speeds and travel times, the data was turned into actionable information by the traveling public and TMC operations teams to monitor network anomalies and performance.

Over the past five years, probe vehicle data, and associated services, have significantly expanded and become an integral element to the overall transportation program.

Maximizing a planned or existing PVD program ensures that any entity gains the fullest value from this Big Data resource. This session will provide a series of presentations by public agencies and industry experts to highlight how PVD is applied in areas far beyond basic speed and travel time information and how it has become a critical component for agencies and consultant-led initiatives and projects where it has been fully embraced as an important resource.

Presenters will offer insights into the programs they lead, and how PVD supports planning efforts, data-driven project prioritization, traffic signal operations, winter maintenance activities, intersection and corridor performance, and safety initiatives. Areas where multiple applications are applied to reach a single outcome or project goal will also be highlighted.

Session Sponsor: INRIX

Session Speakers**Todd Kell:**

Director of Public Sector Services - INRIX

Andrew Nichols, P.E., PTOE:

Signal & Freeway Operations Engineer - VDOT

Scott Thompson-Graves, PE, PTOE:

Senior Vice President - WRA

Michael Pack:

Founder and Director - Founder and Director

ROOM: E219D	ROOM: E219B/C
<u>Best Practices for Measuring Safety Program Progress</u> Our session will showcase best practices in measuring safety program progress, with insights from GDOT, FDOT, and NCDOT. Topics include engineering, enforcement, education, and emerging technologies. We will highlight outcome and behavior-based metrics, new technologies for measuring safety, and traditional and innovative reporting practices. Attendees will gain practical knowledge on how agencies track safety performance, leverage data, and evaluate countermeasures. The session will emphasize measurable outcomes and real-world applications that support safer transportation systems. Session Sponsor: AECOM <u>Session Speakers</u> Tom Sever, P.E.: Senior Project Manager - AECOM Ron Knezevich, P.E. RSP2: State Safety Engineering Manager - GDOT Mario Dipolo, P.E., PTOE, RSP2: State Leader - North Florida - Gresham Smith Daniel Carter: Safety Project Engineer - NCDOT Vivek Reddy, P.E.: AECOM Christina Barry, P.E.: Assistant State Traffic Engineer - GDOT	<u>Unlocking Mobility Through Data: Real-World Applications of Probe Data in Day-to-Day Operations</u> Transportation agencies are awash in data — but the real transformation comes when they act on it. Probe data, once constrained to long-range planning, has evolved into a powerful, real-time operations tool. With penetration rates now consistently reaching up to 35%, agencies can reliably manage traffic, evaluate performance, and make operational decisions at scale — all without new roadside hardware. This session will focus on implementation stories, not theory. Panelists from across the U.S. will demonstrate how they've embedded probe data into daily workflows to solve pressing challenges: signal optimization, work zone safety, truck parking, wrong-way driving, before/after studies, and real-time congestion management. Attendees will walk away with replicable strategies for overcoming institutional barriers, integrating probe data into TSMO frameworks, and leveraging public-private partnerships to achieve results. Session Sponsor: STV & Flow Labs <u>Session Speakers</u> Katie King, P.E.: FDOT D5 TSM&O Consultant Planning Project Manager - Metric Engineering, Inc. Sheryl Bradley: SMO Program Director - The Eastern Transportation Coalition (TETC) Nathan Wade: Vice President - Flow Labs Tom Tylek: Business Development Manager - Altitude by Geotab Ted Bailey, P.E.: Director of Government Technology Solutions - STV Barry Cross: Deputy Division Traffic Engineer in Division 12 - NCDOT
ROOM: E219A	ROOM: E216ABCD
<u>Realizing the Benefits of LIDAR Deployment</u> Join this session to learn about the ongoing deployment of Lidar devices by four agencies, including the Georgia Department of Transportation Office of Traffic Operations – Signals Group, Georgia Department of Transportation Office of Traffic Operations – ITS Group, Nashville Department of Transportation, and Chattanooga Public Works Department. Each agency will provide a short presentation, documenting the state of their deployment, the challenges they have faced and lessons learned while deploying Lidar, the benefits they have realized by deploying Lidar, and the next steps in their planned deployment. Following the presentation, the agencies will host a panel session to further dive into their deployments, while allowing enough time for questions and answers from the audience. Session Sponsor: Kimley-Horn <u>Session Speakers</u> Aaron Cushman: Information Systems Division Manager - NDOT Corey Givens: Manager of Intelligent Transportation Systems - City of Chattanooga Department of Public Works William Morgan: Traffic Engineer - GDOT Dr. William Barbour: Senior Research Scientist - Adjunct Professor - Vanderbilt University Ryan Huddleston: Director of Intelligent Cities - City of Chattanooga	<u>The Full Picture: Improving Traffic Operations & Situational Awareness with Multi-Source Data Fusion</u> Bigger cities, more vehicles, new mobility types, increasing social unrest, more impactful natural disasters, higher expectations from travelers, and rising labor costs are leading to complex traffic operations challenges. Thankfully, there are also more sensor types and new datasets providing more insight than ever before. But with so many different providers, technologies, and unproven sources, it can be challenging to cut through the noise and determine what data is truly impactful. This session will explore the benefits and drawbacks of different sensor and data types and how state agencies, data providers, and academia are working to combine connected vehicle, camera, weather, and fixed infrastructure sensor data for enhanced situational awareness, more confident decision-making, and how state agencies, data providers, and academia are working to combine connected vehicle, camera, weather, and fixed infrastructure sensor data to enhance situational awareness, support more confident decision-making, and improve and better response and resilience. Session Sponsor: Vizzion <u>Session Speakers</u> Keith Anderson: Vice President - Vizzion Pete Costello: Senior Account Manager - TomTom Minh Le: TTI Research Engineer Program Manager - Texas A&M Transportation Institute Kelly Wells, P.E.: Traveler Information Engineer - NCDOT Megan McElwee: Manager, Solutions Engineering - Iteris Matt Davis: Principal, ITS Practice Lead - Stantec Cole Gawenda: Sales Manager - Vizzion

TECHNICAL SESSION AGENDA | TUESDAY (3/24)

TIME: 8:15A-9:45A

ROOM: E2190

Innovating for Efficiency: Charlotte's Path to Reliable Transportation

The focus of this session is to highlight varying approaches to Reliable and Efficient Transportation specific to the City of Charlotte, including: Asset Management, Resiliency, Safety Cameras, Strategic Investments, Grants/Federal Funding, Strategic Mobility Plans, IT Security, CDOT and IT Coordination, Traffic Safety in GIS, and Detection Evaluation.

Presentation #1:

Ashley Boenisch (CDOT) / Cole Dagerhardt (Exult): Ensuring Reliable Operations in a Changing Environment: Presentation focused on strategies to build and maintain a resilient transportation network in Charlotte, emphasizing redundancy, continuity planning, and adapting to both natural and human-made disruptions.

Presentation #2:

Adam Klieh (CMPD) / Nathan Conard (CDOT): Leveraging Technology for Public Safety: A joint discussion with CMPD on the role of safety cameras in monitoring traffic, enhancing enforcement, and supporting investigations, with emphasis on community trust and transparency.

Presentation #3:

Matt Magnasco (CDOT): Strategic Investment Area (SIA) - Targeting Growth Through Transportation: Overview of how Strategic Investment Areas guide infrastructure improvements and multimodal investments, ensuring reliable and equitable transportation in Charlotte's growth corridors.

Presentation #4:

Susan Habina-Woolard, PE (Town of Matthews): "Strategic Funding and Smart Integration": Dive into strategies for small communities that have a vision to be walkable and bikeable, from data collection, to diversifying funding strategies and integrating safety into all projects.

Session Sponsor: Exult

ROOM: E219A

Transforming Roadway Operations Through Intelligent Detection And Adaptive Control

A multi-agency session highlighting real-world deployments of vehicle-based roadway asset management, wrong-way driving detection, adaptive ramp metering, and connected transit/emergency vehicle priority from Ohio, Kentucky, Michigan, and Georgia.

Vehicle-Based Roadway Data For Asset Management:

Professor Munir Nazzal, University of Cincinnati

A session on how connected vehicle sensor data and AI can automatically detect and map roadway defects, transforming traditional maintenance into a proactive, data-driven asset management system with real-world pilot visuals and detection examples.

Wrong Way Driving:

Jarrod Stanley, Kentucky Transportation Cabinet

A session on an advanced sensor- and computing-based system to detect, deter, and monitor wrong-way drivers on interstate off-ramps, featuring system architecture, project methodology and devices, and performance insights from pilot corridors.

Adaptive Ramp Metering:

Sarah Gill, Michigan DOT

A session on using real-time traffic data to power adaptive ramp metering that dynamically controls freeway entry rates to improve throughput, reduce congestion, integrate with broader ATMS platforms, and demonstrate performance through simulated and observed results.

Connected Transit and Emergency Vehicles in Gwinnett County:

Joshua Brown, Gwinnett County DOT (Georgia)

A session on how Gwinnett County is deploying advanced traffic technology, including Transit Signal Priority (TSP) and Emergency Vehicle Preemption (EVP), using C-V2X on-board units on transit and emergency vehicles to improve safety.

Session Sponsor: Parsons

ROOM: E219B/C

Maximizing the Operational Value of Traffic Camera Analytics Through Machine Learning and AI

Traffic camera analytics has become a cornerstone of modern transportation system management, providing innovative ways to improve safety, enhance mobility, and optimize roadway operations. By leveraging existing investments in camera infrastructure and integrating machine learning and artificial intelligence (AI), traffic camera analytics is poised to unlock even greater potential as video resolution and imaging technology continue to evolve.

This session will explore the value of camera-based analytics in Transportation Systems Management and Operations (TSMO) and why it is critical to future-ready transportation strategies.

The discussion will emphasize two critical perspectives: the technological foundation of video analytics and its real-world operational applications.

Session Sponsor: SwRI

Session Speakers

Pete Vega, P.E.:
TSM&O program - FDOT

Ryan McBe:
Project Manager - Southwest Research Institute

ROOM: E216ABCD

Smarter Assets. Safer Deployments. Real Results.

Session #1 GDOT's Express Lanes Modernization:

Implementing Next-Generation Warning Gates for Safer, Smarter Reversible Lane Operations

Transportation agencies continue to face challenges with traditional access control gate systems, particularly regarding visibility, safety risks, maintenance demands, and overall system reliability. GDOT's I-675 Access Control Gate Pilot, led collaboratively by Lumin8 and Versilis, presents an innovative approach to modernizing gate infrastructure along high-priority corridors.

This session will highlight findings from a proposed pilot deployment along the I-675 southbound South Managed Lanes toll entrance, where three existing problematic gates will be replaced with highly visible, crash-tested gate systems significantly improve motorist compliance, reducing safety hazards and lowering long-term maintenance costs.

Conference speakers David Miranda (GDOT), David Swales (Lumin8), and Marie-Claude Seguin (Versilis) will outline the project's technical objectives, evaluation criteria, deployment approach, and anticipated benefits. They will also share information from similar deployments across the U.S. and internationally, emphasizing seamless integration with existing traffic management systems and measurable safety improvements.

Session #2 Beyond the Lens: Strengthening Rural Camera Networks for GDOT

Rural arterial routes across Georgia play a critical role in freight movement, local connectivity, and emergency response, but visibility into real-time conditions along these corridors is often limited due to sparse ITS coverage and the logistical challenges of deploying technology in remote environments. To address this gap, the Georgia Department of Transportation (GDOT) has expanded its strategy for managing CCTV systems on rural arterial routes by leveraging its comprehensive ITS Maintenance Contract in alignment with the statewide ITS Pay-for-Performance (P4P) Contract.

In this session, Kaitlyn Stewart will outline GDOT's approach to systematically implementing CCTV coverage along rural arterials, ensuring these assets meet stringent performance and uptime requirements while supporting improved situational awareness, incident verification, and traffic operations across District-level networks. The presentation will highlight the operational framework that enables ongoing maintenance and seamless integration of rural arterial devices into GDOT's statewide ITS architecture.

Session Sponsor: Lumin8

Session 1 Speakers

David Miranda, P.E.:
Assistant State ITS Supervisor - GDOT

David Swales:
Chief Revenue Officer - Lumin8 Transportation Technologies

Marie-Claude Segun, P.E.:
President - Versilis

Session 2 Speaker

Kaitlyn Stewart, P.E.:
Assistant State Signal Engineer in SigOps - GDOT

ROOM: E2190

Assessing the Altitude of Advanced Air Mobility – From Drones to Air Taxis

Our industry is at the forefront of a new era in transportation technology. Advanced Air Mobility (AAM) will need both proven and innovative policy, design, and implementation guidance to safely and efficiently integrate this technology into our systems.

This session will focus on the jurisdictional layers that come with transformative transportation technology like AAM. Stantec's policy advisory services team will lead an interactive workshop and panel session with speakers that have leading experience working on AAM projects and perspectives from North Carolina public agencies leading evaluation and coordination efforts around the implementation of AAM use cases. Aligning regulatory considerations with use cases and economic benefits will be a primary focus area for the workshop.

Session Sponsor: Stantec

ROOM: E219B/C

Transforming Mobility: Statewide Electronic Locks & Adaptive Signal Control Deployments in Georgia

As suburban regions experience exponential growth, traffic congestion and travel time reliability increasingly challenge local infrastructure. Gwinnett County, Georgia, one of the fastest-growing jurisdictions in the Southeast, launched an ambitious effort to modernize its traffic management network through the deployment of the SWARCO MyCity Adaptive Signal Control solution. In collaboration with supporting partners, Gwinnett County implemented a scalable, data-driven platform that integrates seamlessly with existing signal hardware to deliver real-time optimization along one of the County's most heavily traveled corridors.

This presentation will provide a comprehensive overview of the selection, deployment, results, and lessons learned from implementing the MyCity Adaptive system within Gwinnett County's transportation network. Attendees will gain insight into the County's transition from time-based coordination to a dynamic, sensor-driven control environment leveraging SWARCO's MyCity and Omni eX solutions.

The session will highlight the use of high-resolution data analytics, performance dashboards, and other features to improve operational efficiency, safety, and travel time reliability — all while maintaining interoperability with legacy infrastructure.

In addition, GDOT will present on the deployment of electronic locks at traffic signal cabinets. This represents a significant advancement in transportation infrastructure security. Until now, the standard practice in Georgia was to equip all traffic signal cabinets with a number two key. This method presented its own challenges of unauthorized access and network vulnerability. This project explores the implementation of electronic locking systems integrated with centralized access control and audit trail capabilities across signal cabinets in all GDOT signal cabinets. The deployment aimed to enhance physical security, streamline access for authorized personnel, and reduce the risk of tampering or vandalism. As of 2025, GDOT installed electronic locks at 4000 intersections.

This presentation will discuss the planning, deployment, and lessons learned of the project, offering insights for agencies considering similar upgrades to their traffic signal infrastructure.

Session Sponsor: SWARCO

Session Speakers**Mike Clance:**

Regional Sales Manager - SWARCO McCain, Inc.

Joshua Brown, P.E., IMSA2:

Engineer IV - Gwinnett County Department of Transportation

Challa Bonja, P.E., PTOE:

Founder and Managing Principal - Metro Trafik

Emily Dwyer, P.E.:

Director of Engineering Solutions - Utilicom Supply Associates

Ben Robinson:

Senior Vice President - WSP

Kaitlyn Stewart, P.E.:

Assistant State Signal Engineer in SigOps - GDOT

ROOM: E219A

Harnessing Data for Automated Operations for Efficient and Safer Highways

This session will present a number of projects with M&N's transportation agency partners that have implemented automated software and safety elements for both Freeway and Arterial systems.

Topics include: "Florida's Turnpike Enterprise Queue Warning System" – Traffic Management Center (TMC) operations staff are becoming overburdened as congestion increases and crashes occur along Florida's busiest corridors. Traditional operations using CCTV monitoring and manually posting of warning messages cannot adequately address these challenges when timely warnings are critical related to safety; "Smart Orlando Downtown Advanced Traffic Operations Project (SODATOP)" – The Florida Department of Transportation District 5 commissioned SODATOP, a federally funded design-build Intelligent Transportation Systems (ITS) project, to improve transit reliability, mobility, and safety for pedestrians and motorists in Orlando; and, "Real-Time Congestion Alert Dashboard and Automated Email Notifications" - The availability of probe and connected vehicle (CV) data, updated in near real-time (under five minutes), enables agencies to monitor the broader transportation network and address gaps left by cameras and field devices.

Session Sponsor: Moffatt & Nichol

Session Speakers**Joe Perri:**

Transportation Technology Lead - Moffatt and Nichol

Keith Smith:

Data Analyst Lead - Moffatt and Nichol

Isaiah Sadler, P.E.:

Transportation Systems Manager - City of Orlando

John Hope:

Transportation Software Lead - Moffatt and Nichol

Kelly Kinney:

FTE TMC Program Manager - Jacobs Engineering Group Inc

ROOM: E216ABCO

Did AI Really Predict That?

AI is increasingly used in transportation for prediction, operations, planning, and traveler communication. But real-world implementations often surprise us — sometimes positively, sometimes not.

This panel explores where AI delivered, where it misfired, and what was learned.

Session Sponsor: Iteris

Session Speakers**Dean Gustafson, P.E., PTOE:**

Vice-President Mobility Operations Services - Iteris

John Hibbard:

Deputy Chief Engineer - GDOT

Kristin White:

Head of Transportation Strategy & Partnerships - Google

Scott Perely:

Transportation Software Lead - Iteris

Jim Anderson:

CEO - Beacon Software Development

ROOM: E219D	ROOM: E219B/C
<u>Evolving and Successful Deployment of Cloud-Based Transit Signal Priority</u> Session will discuss lessons learned from local TSP projects. Both pilots achieved measurable reductions in bus travel times and improved schedule reliability. In Nashville, early challenges included network security and inter agency coordination—overcome through close collaboration and robust testing. In Orange County, cloud TSP enabled unified analytics and rapid iterations, supporting regional data-sharing and fast deployment. A panel discussion with NDOT, OCTA, Arcadis, and WeGo, featuring in-depth case studies, system architecture graphics, and interactive Q&A. The session will cover technical, operational, and policy lessons from these current, public agency-led projects. Session Sponsor: Arcadis Session Speakers Matt Glasser, P.E.: National TSMO Account Lead - Arcadis Luke Dixon: Tennessee Mobility Management Group Leader - Arcadis Whitney Shavers: Project Manager - Arcadis Gabriel Murillo: ITS and Connected Mobility Market Sector Leader - Arcadis Joseph Hacker: Principal Planner for Transportation Technology and Operations - Atlanta Regional Commission Tom Glueckert, P.E.: Traffic Engineer - Kimley-Horn	<u>Data-Driven Traffic Management: Innovative Applications of TOMSHub</u> TOMSHub (Transportation Operations, Maintenance and Support Hub) is a web-based traffic signal and Advanced Transportation Management Systems (ATMS) database analytics application. The application hosted at Palm Beach County supports all online deployed traffic controllers with the capability to collect and analyze alarms and high-resolution data. TOMSHub provides custom dashboards for decision-making and works seamlessly with existing infrastructure and third-party systems. It also provides real-time data monitoring with live traffic updates and health system monitoring. It pinpoints problems from critical alarms, allowing the timing engineers to respond faster and more accurately and the Signal Maintaining Agency to prioritize traffic signal repairs. It also provides a daily alarm report summary and corridor performance module that allows timing engineers to optimize signal timings for work zones and special events to minimize delays, reducing the number of complaints and concerns. Session Sponsor: CHA Session Speakers Aidin Massahi, Ph.D., P.E., IMSA II: ITS and Signal System Manager - Palm Beach County Vasileios Liatsos, PhD: Traffic Engineer - CHA Sultan Ali, P.E., PhD: Project Manager - CHA
ROOM: E219A	ROOM: E216ABCD
<u>Wrong Way Driving and Vulnerable Road Users: A Systems Approach to Arterial and Freeway Safety</u> In this session, members of the Kentucky Transportation Cabinet and WSP USA will discuss how KYTC fully leveraged their capabilities by incorporating KYTC's research and innovation division into Project Delivery to meet the needs of two separate projects in development in 2025. By leaning into the Safe System Approach through understanding the root cause of needs and determining what types of innovation could be considered to help advance the cause of safe mobility in Kentucky. These conversations have been a catalyst for other discussions internally as other Divisions are working to implement similar cross-divisional working groups to help maximize the return on investment for the available dollars of the Cabinet. Session Sponsor: WSP Session Speakers Jarrod Stanley: Research Coordinator - Kentucky Transportation Cabinet Corrin Gullick, PE, PTOE: Traffic Engineer - WSP Chris Barrow, PE, RSP1, IMSA TSII: WSP Daniel Johnson, PE: Electrical Engineer - WSP	

ROOM: E219D

Planning for the Unpredictable: Advancing Incident Management Through Innovation

No two traffic incidents are alike—so how can agencies effectively prepare for the unexpected? In this compelling session, leading incident management professionals will showcase the cutting-edge technologies, strategic initiatives, and collaborative efforts driving transformation in their programs.

Learn how these experts are leveraging innovation to enhance response capabilities, reduce roadway disruptions, and build a more reliable and efficient transportation network across their states.

This session will feature three states with exemplary Traffic Incident Management (TIM) programs, each delivering a 20-minute presentation. Each presenter will share key accomplishments and strategies that have contributed to the advancement and maturity of their respective programs.

These insights may include innovative initiatives, technologies, software solutions, and operational enhancements that have driven program success.

Session Sponsor: AtkinsRealis

ROOM: E219A

Tennessee I-24 Smart Corridor Connected Vehicle Deployment

The I-24 Smart Corridor is densely instrumented with ITS devices along I-24, SR-1, and connecting arterials between Murfreesboro and Nashville, TN. The 30-mile-long corridor stretch includes various types of devices to enable a myriad of Transportation Systems and Management Operations (TSMO) applications including 152 Connected Vehicle Roadside Units. The new and upcoming technology has great potential for enabling the deployment of CV applications including Vehicle to Infrastructure communication. The project provided many learned lessons especially during the times when CV technology has continuously changed in every aspect to develop the devices and to accommodate the changes in FCC requirements.

This presentation is focused on presenting the project as a case study to clarify expectations and guide professionals to a successful deployment of CV technology.

Session Sponsor: Neel-Schaffer

Session Speakers

SAID EL SAID, P.E., PHD:
Transportation Systems Manager - Neel-Schaffer

Aaron Cushman:
Information Systems Division Manager - NDOT

Amy Bailey, P.E.:
TSMO Manager TDO

CLARKE CHAUVIN, PE, PTOE, PMP:
Sr Project Manager - Neel-Schaffer

Andrew Royalty, EI:
Engineer in Training City of Murfreesboro

ROOM: E219B/C

Data Exchanges: A donut hole, or just a smaller donut?

Think of TSMO Data as a Doughnut. It can feel like an unending cycle of gathering, evaluating, sorting, cleaning, and storing more and more data for data's sake while never realizing our vision at the center: operational outcomes – improved safety and mobility.

This panel will discuss what data exchanges do well today—enabling interoperability, reducing duplication, and supporting innovation—while also exploring their future role in traffic management, predictive analytics, and connected vehicle ecosystems. At the same time, panelists will examine where exchanges are not well suited, such as ultra-low latency communications, sensitive or proprietary data, and contexts with unresolved governance or quality issues.

Session Sponsor: SwRI

ROOM: E216ABCD