MAY 7-10, 2024 | RALEIGH, NC

TechConnect, a division of ATI

2024 DAY-AT-A-GLANCE

Sessions Subject To Change | View Detailed Program   Here

TUESDAY, MAY 7, 2024 Registration 12:00pm - 6:00pm

12:00 - 2:00	Pre-Con Workshop: CTIA Connectivity Workshop: "Connected Community Deployments: From Strategy to Reality"
2:00 - 4:30	Pre-Con Workshop: Technology for a Connected Triangle - +Designing the Use Cases
5:00 - 7:00	Smart 20 Awards Reception *Located at SAS Institute, Inc., SAS Campus Drive, Cary, North Carolina 27513. (Additional registration fee required. Tickets NOT sold at door)*

WEDNESDAY, MAY 8, 2024 Registration 7:00am - 6:00pm

7:45 - 8:30	Early Bird Coffee Break
8:30 - 10:40	Keynote Program • Welcome Address • Catching up to AI--Local Policy Development on AI • Transforming Urban Infrastructure: Public Safety, Equity and Environment • Fueling Resilience: The Power of Propane in Emergency Response, Transportation, and Power Generation
10:40 - 10:55	Coffee Break

Breakout Sessions	Digital Transformation: Networks, Data,	Urban Operations: Lighting,	Smart Mobility: Transportation, Autonomous,	Urban Infrastructure: Buildings,	Community Engagement: Policy, Funding,	Smart City Startup Challenge

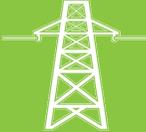|	AI, 5G, Sensors, IoT, Cyber	Water, Waste, Planning, Emergency Response	Public Transit, Ride Share	Energy, Grid, Utilities, Resilience	Commerce, Inclusion, Governance	
11:00 - 11:50	Miramar's Smart City Transformation to Net Zero	Leveraging Smart Streetlight Controls to Transform Operations and Services	Application of AI and Advanced Analytics to Reduce Traffic Congestion in Metro City of Istanbul	Harnessing IoT for a Seamless Intermodal Transportation, Multi-utility Solutions, and Smart City Enterprise Management	Government Prizes and Programming Opportunities that are Spurring Technology Innovation and Workforce Development for a Just Energy Future	Welcome Remarks and Startup Challenge I
12:00 - 1:15	Lunch (on own)					
1:15 - 2:05	City Spotlights: • Frisco, TX • Raleigh, NC • Chicago, IL • Kalamazoo, MI	From Digitization to AI: How Technology is Reshaping Urban Operations	Riding High: SEPTA Makes Smart City Transit a Reality	Your Streetlight as a Meter? Tracking Carbon Reduction with Smart Streetlights	Building in Public: Developing Shared Open Source Software in Government	Startup Challenge II
2:10 - 3:00	AI and Cybersecurity - Impact on Smart Cities	Microweather Modeling and Empowered Data to Battle Heat Stress in Cities	No More Empty Buses: How Advanced on-demand technology helps boost transit ridership and improves accessibility for citizens	Southeast Propane Alliance	A Tale of Two Cities: How Charlotte and Orlando embraced the digital revolution	Startup Challenge III
2:00 - 6:00	Expo Program & Reception					

THURSDAY, MAY 9, 2024 Registration 7:00am - 5:30pm

7:45 - 8:30	Early Bird Coffee Break
8:30 - 10:40	Keynote Program • Risk Mitigation Models in New Technology to Benefit Cross Jurisdictional Collaboration • Empowering Cities to Control and Optimize Multi-Mode Traffic Flow – A Coalition • The Power of Sight: Making Cities Smarter and Safer with Computer Vision Innovations • Creating Something Beautiful in Cary (Walk in the Park) • Building Public Trust for Digital Transformation • SCC 2025 Announcement
10:40 - 10:55	Coffee Break *Sponsored by:* **swisstech.**

Breakout Sessions	Digital Transformation: Networks, Data, AI, 5G, Sensors, IoT, Cyber	Urban Operations: Lighting, Water, Waste, Planning, Emergency Response	Smart Mobility: Transportation, Autonomous, Public Transit, Ride Share	Urban Infrastructure: Buildings, Energy, Grid, Utilities, Resilience	Community Engagement: Policy, Funding, Commerce, Inclusion, Governance	Smart City Startups Challenge
11:00 - 11:50	Digital Transformation – it can be done!	Make AI Your Ally for Effective Asset Management	Bringing Smart Mobility into the Shared Economy	City Spotlights • Raleigh, NC • Wilson, NC • Tucson, AZ • Charlotte, NC	Community Engagement Impact and Partnerships with Cities	Startup Challenge IV
12:00 - 1:15	Lunch (on own)					
1:15 - 2:05	Delivering Smart City Outcomes with AWS Partners	Illuminating Sustainable and Smart Cities	City Spotlights • Cary, NC • Coral Gables, FL • South Bend, IN • Southeastern Pennsylvania Transportation Authority (SEPTA)	Rethinking Urban Energy Together – Next Generation Technology-Use from Switzerland	IDC - Smart City Awards	Startup Challenge V
2:10 - 3:00	Bring AI to your Data: A Blueprint for Building a Smarter City	AI & Digital Twins: Building Resilient Smart Cities	Looking Abroad to Propel Urban Planning and Traffic Flow Optimization	Integrating Electric Utility Innovation with sustainable Smart Cities	Secure and Seamless: Revolutionizing City Services with Digital IDs	Startup Challenge VI, Closing Remarks and Award Presentation
2:00 - 6:00	Expo Program & Reception					

FRIDAY, MAY 10, 2024 Registration 8:30am - 11:30am

8:30 - 9:00	Early Bird Coffee Break

Breakout Sessions	Digital Transformation: Networks, Data, AI, 5G, Sensors, IoT, Cyber	Urban Operations: Lighting, Water, Waste, Planning, Emergency Response	Urban Infrastructure: Buildings, Energy, Grid, Utilities, Resilience	Community Engagement: Policy, Funding, Commerce, Inclusion, Governance

Time				
8:30 - 9:25	How AI and Data Deliver on the Promise of a Connected City	City Spotlights • Carlsbad CA • San Antonio, TX • Syracuse, NY	Sustainability and the City	Data Governance and Open Data in Smart Cities
9:30 - 10:25	How Data and AI are Driving Innovation in Communities	How the New York City Economic Development Corporation Uses Software & 3rd Party Service Partners to Accelerate Decarbonization, Energy Efficiency & Building Performance Standard Compliance Efforts	Sustainability and the City: Smart Solutions for Municipal Sustainability Initiatives	City Spotlights • Raleigh, NC • Sacramento, CA • Yonkers, NY • Dallas, TX • Cary, NC
10:30 - 11:25	Data + AI for Revitalizing America's Parks Systems	Lower the Costs of Taking on New Projects: A framework for starting with your existing infrastructure	LPR: The Future of City Parking Enforcement	Build or Buy: How to Create Smarter Cities Utilizing Software
11:30 - 12:25	Transforming Urban Landscapes: A Deep Dive into Glendale's Smart City Blueprint - Integrating Leadership, Innovation, and Industry Solutions for a Data-Driven Future	The Smart City Transformation of Washington, D.C. powered by 75,000 inteliLIGHT street light controllers		Engaged Communities in Smart Cities: Challenges and Opportunities
12:30	Smart Cities Connect Conference Closed			
1:30 - 5:30	**Post Conference Workshop: IoT: A Walk in the Park (Town of Cary)** Join us for an exciting journey into the future of urban green spaces as we unveil our groundbreaking project – the deployment of sensors on a LoRaWAN network in our brand-new downtown destination park.			

2024 DETAILED PROGRAM

Sessions Subject To Change | View Day-At-A-Glance   Here

Tuesday May 07, 2024

12:00 PM - 6:00 PM

Registration

12:00 PM - 2:00

PM
CTIA CONNECTIVITY WORKSHOP: "Connected Community Deployments: From Strategy to Reality"

2:00 PM - 4:30 PM
Technology for a Connected Triangle + Designing the Use Cases

5:00 - 7:00 PM
Smart 20 Awards

Wednesday May 08, 2024

7:45 AM - 8:30 AM
Early Bird Coffee Break

8:30 AM - 10:40 AM
Keynote Program

8:30 AM - 8:35 AM
Opening Smart Cities Connect Conference

Chelsea Collier , Editor-at-Large, *Smart Cities Connect Media & Research* (speaker)

8:35 AM - 8:40 AM
Welcome Remarks

8:40 AM - 9:10 AM
Catching up to AI--Local Policy Development on AI

AI has reached a level of ubiquity. While some celebrate AI's unprecedented analytical capabilities, others express caution about the unknown and ethical implications of an unregulated technology. Our panel of thoughtful and experienced city leaders will discuss their own applications and considerations of AI, including generative AI, and discuss important topics from resident engagement to policy implications. Join us to hear about specific use cases, policy developments, and advice for smart city leaders on how to navigate these unprecedented times.

Chelsea Collier , Editor-at-Large, *Smart Cities Connect Media & Research* (moderator)
Mark Wittenburg , Chief Information Officer, *City of Raleigh, NC* (speaker)
Chris Mazzarella , Chief Information Officer, *City of Tucson, AZ* (speaker)
Heidi Norman, CIO and Director, Innovation & Performance, *City of Pittsburgh, PA* (speaker)
Emily Royall , Smart Cities Administrator, *City of San Antonio, TX* (speaker)

9:50 AM - 10:20 AM
Transforming Urban Infrastructure: Public Safety, Equity and Environment

In 2023, Memphis and Philadelphia initiated transformative lighting projects, focusing on public safety, equity, and sustainability. The Philadelphia Streetlight Improvement Project (PSIP), a major endeavor to convert 130,000 streetlights to LEDs within two years, is set to be Philadelphia's most extensive energy conservation project. Mayor Jim Kenney emphasized the project's dual benefits: enhancing residents' quality of life with improved, reliable lighting and advancing the city's Vision Zero and 2030 climate goals. This move is crucial in light of data showing a tripling in the risk of fatal crashes at night and a University of Chicago's Urban Labs study demonstrating a 36% drop in crime with better lighting. Echoing this approach, Memphis Mayor Strickland announced the upgrade of 84,000 streetlights, underscoring the role of lighting in crime prevention. The session will bring together experts, including those from the Memphis Gas Light and Water, Philadelphia Energy Authority, Ameresco and Ubicquia to delve into the strategy and execution of these pivotal U.S. lighting projects and their progression.

Chelsea Collier , Editor-at-Large, *Smart Cities Connect Media & Research* (moderator)
Fritz Feiten , National Smart Streetlighting Consultant, *Ameresco* (speaker)
Brad Gates , District Engineer, *Memphis Gas Light and Water (MLGW)* (speaker)
Mike Grigsby , Director of Business Development, *Ubicquia, Inc* (speaker)
Akshay Malik , Smart Cities Director, *City of Philadelphia, PA* (speaker)

10:20 AM - 10:40 AM

Fueling Resilience: The Power of Propane in Emergency Response, Transportation, and Power Generation

This keynote focuses on the use of propane and renewable sources for power generation, transportation, and emergency response resilience. An informative and thought-provoking talk, offering insights on how to leverage these resources to enhance preparedness and resilience.

Tucker Perkins , President and CEO, *Propane Education & Research Council (PERC)* (speaker)

11:00 AM - 11:50 AM

Miramar's Smart City Transformation to Net Zero

Panel discussion of the City of Miramar's journey to net zero. The conversation will focus on how the city is leveraging a combination of energy efficiency and low/no emissions technologies solutions (LED lighting, building automation, renewable energy, EV vehicles & infrastructure) along with smart cities technologies (I.O.T, Digitalization, Data Analytics) to proactively monitor gains and increase resiliency. The panel consists of key stakeholders who will share their role in these efforts from the unique perspective of their various positions at the City.

Bryan Reardon , Infrastructure Executive, *Siemens Industry, Inc.* (moderator)
Kelvin Baker Sr. , Deputy City Manager, *City of Miramar, FL* (speaker)
Gregg Eaton , Southeast Regional Sales Manager, *Siemens Industry Inc* (speaker)
Natalie Richmond , Assistant Director of Procurement, *City of Miramar, FL* (speaker)
Rasheed McCallum , Energy Resource Manager, *City of Miramar, FL* (speaker)

11:00 AM - 11:50 AM

Leveraging Smart Streetlight Controls to Transform Operations and Services

Cutting energy costs and reducing carbon footprint are the primary reasons why most cities

and utilities upgrade streetlighting. However, tremendous operational efficiencies also can be achieved by pairing smart streetlights with streetlight operations software — a step that so far is often overlooked. This integrated approach can enable proactive outage repairs, improved 311 operations, enhanced citizen services, fewer maintenance truck rolls, more accurate billing, and less redundant or manual work. When building a business case for smart streetlighting, it's important to understand the measurable benefits that streetlight operations software can deliver. Streetlight operations software includes mobile applications built specifically for field crews to tap into the features of the smart lighting central management systems (CMS), as well as back-office platforms, so crews can work faster and smarter than ever before. Streetlight operations software enhances overall project economics by increasing the efficiency of deployment, maintenance and business processes. Additionally, this software amplifies the benefits of smart lighting by accelerating energy savings, reducing expenses and expanding environmental benefits, which helps build stakeholder support for the smart streetlighting investment.

Dave Basil , President & CEO, *TerraGo* (speaker)
Chris Danforth , Smart Technologies Manager, *Outdoor Lighting, Duke Energy* (speaker)

11:00 AM - 11:50 AM

Application of AI and Advanced Analytics to Reduce Traffic Congestion in Metro City of Istanbul

The population growth of Istanbul puts enormous pressure on the city's transportation network. The Istanbul Metropolitan Municipality (IMM) has turned to AI to create smart-city digital infrastructure. AI/ML is running to analyze historical traffic data and incorporate live data feeds from a growing network of sources, including traffic cameras, sensors, data readers, mobile applications and payment gateways. The system can optimize bus routes with new traffic and passenger data to improve service and route availability. It can also anticipate traffic anomalies such as accidents, lane closures and congestion in real-time by analyzing route densities, driver behavior and journey maps. With AI and analytics, Istanbul's municipal government can assess traffic conditions in real-time, anticipate congestion trouble spots, and intelligently route traffic and guide citizens on their journeys, this helps reduce congestion, lower pollution levels and improve the quality of life for our citizens. The AI system supports Istanbul's sustainability goals, restores public confidence in mass transit, and ultimately improves traffic flow that leads to better economic opportunities" said Dr. Naim Erol Özgüner, CIO of IMM.

Katy Salamati, Sr. Manager in Global Technology Marketing, *SAS* (speaker)

11:00 AM - 11:50 AM

Smart Energy Solutions: AI-Driven Innovations in the Utilities Sector

Energy Management, Smart Grids, AI powered Utilities, Renewable energy integration, AI powered urban infrastructure This panel delves into the transformative role of Artificial Intelligence (AI) and smart grid technologies in reshaping urban infrastructure. We begin by exploring the core concepts of smart grids and AI's pivotal role in modern energy management. The discussion progresses to the evolution of urban infrastructure, contrasting traditional systems with cutting-edge smart city initiatives. Our key focus is on AI's application in energy infrastructure, emphasizing grid efficiency, reliability, and the integration of renewable energy. We address the major components of electricity sector planning and how AI and smart grids catalyze improvements. We discuss the unique challenges and digital solutions relevant in emerging markets, highlighting the economic impacts and benefits of smart grid adoption. Further, we delve into the technical depths of AI and Machine Learning in smart grids, covering energy management systems, advanced forecasting techniques, and case studies showcasing global successes. The panel also

examines AI's role in analyzing consumer electricity behavior and the critical aspect of cybersecurity in smart grids. Concluding, we envision the future of urban infrastructure with AI and smart grids, integrating IoT and 5G technologies, and setting a roadmap for sustainable, smart urban development. Tha panel will discuss and speak their thoughts around the Session title, make it interactive, while a moderator can absolutely pose relevant questions which the panel will answer to their best.

Sandeep Kumar , Co-Founder/CEO, *LTSCT* (moderator)

11:00 AM - 11:50 AM

Government Prizes and Programming Opportunities that are Spurring Technology Innovation and Workforce Development for a Just Energy Future

$270M and counting…Yes, that's how much the government has provided to the great ideas, clean tech innovators, and activities leading the clean energy revolution. And there is more to come! Do you have a game-changing idea to help advance the clean energy marketplace, improve climate change impacts, spur innovation in the tech industry, build partnerships, or advance equitable clean energy access in communities? If so, there are opportunities available that can benefit you! The U.S. Department of Energy's American-Made program is your fast track to the clean energy revolution, and we want to share opportunities, success stories, and partnership opportunities for everyone to get involved. We need you to join us to help build a clean energy workforce of the future and takes into account energy justice for all and offers opportunities for everyone to thrive. Come learn how prizes and other government programming are making a difference in communities across the nation and find out how you can get involved, win cash prizes, partner with us, and help change the world!

Sarah Gomach , Sr. Prize Leader, *National Renewal Energy Lab (NREL)* (speaker)
Eric Byington , American-Made Network Lead, *National Renewal Energy Lab (NREL)* (speaker)

11:00 AM - 11:50 AM

Smart Cities Startup Challenge I: Digital Transformation

The 11th annual Smart Cities Connect Challenge bring together technology & solution providers working on next generation Smart City solutions with city, military, investors, and industry leadership.

Jennifer Rocha , Vice President Strategic Partnerships, *TechConnect ATI* (introduction)
Ross Roley , Cyber Innovation Lead, *Battelle in Support of U.S. Indo Pacific Command (USINDOPACOM)* (opening remarks)
David Rios , Defense Technical Information Center and Information Analysis Centers Field Advisor imbedded with US Central Command, *Cloud Lake Technology, LLC* (review panelist)
Bruce Coffing , Chief Information Security Officer, *City of Chicago, Department of Technology and Innovation* (review panelist)
Nicole Coughlin , CIO, *City of Cary, NC* (review panelist)
Ross Roley , Cyber Innovation Lead, *Battelle in Support of U.S. Indo Pacific Command (USINDOPACOM)* (review panelist)

12:00 PM - 1:15 PM

Lunch (on own)

1:15 PM - 2:05

PM
City Spotlights: Digital Transformation

Cities share what it means to remain relevant, safe, and invested in a time of digital transformation. Hear about the unique challenges and opportunities facing city leaders and what the future may hold for connected communities.

Deb Wojcik , Executive Director, *Research Triangle Cleantech Cluster* (moderator)
Melissa Kraft , Chief Information Officer, *City of Frisco, TX* (speaker)
Bruce Coffing , Chief Information Security Officer, *City of Chicago, IL* (speaker)
Mark Wittenburg , Chief Information Officer, *City of Raleigh, NC* (speaker)
Tim Dubois , Chief Information Officer, *City of Kalamazoo,MI* (speaker)

1:15 PM - 2:05
PM
From Digitization to AI: How Technology is Reshaping Urban Operations

The age of the digital city is upon us. As public works departments evolve from cumbersome analog systems to agile digital systems, emerging technologies and advanced data capture capabilities are raising the bar for what is possible in urban operations. This panel will explore the transformative impact—as well as the challenges and opportunities—of this technological renaissance on heavy-duty fleets. Join our panel of experts to discover how artificial intelligence, edge computing, and other digital innovations are revolutionizing operations, efficiency, and sustainability in public works, and what the future holds for smart fleet management.

Katie Gwathmey , Sr. Director, Smart Cities & Policy, *Rubicon* (introduction)
Stephen Goldsmith , Former Mayor of Indianapolis, Daniel Paul Professor of the Practice of Government, *Harvard University's Kennedy School of Government* (moderator)
Robin Barham , Solid Waste Services Director, *City of Concord, NC* (speaker)
David Graham , Chief Innovation Officer, *City of Carlsbad, CA* (speaker)
Melinda King , Assistant Public Services Director, *City of High Point, NC* (speaker)

1:15 PM - 2:05
PM
Intelligent Navigation: SEPTA Makes Smart City Transit a Reality

For our cities to be smart, the public transportation experience must be frictionless, accessible, and connected, paving the way for a more inclusive and equitable urban space. Our riders should look at public transportation as a cherished part of city life, where they are active participants in a smooth flowing urban ecosystem.

This panel will discuss our latest step toward smart transportation, the Southeastern Pennsylvania Transportation Authority (SEPTA), and how its new mobile app experience is transforming the way customers engage with its brand and find transit information.

SEPTA's product is not just the transit system, but the digital assets that support it. As part of broader innovation and product goals, we partnered with SEPTA to reimagine the navigation experience by modernizing its mobile app to empower customers with the features they need most. These include SEPTA Metro, an interconnected wayfinding system, as well as a comprehensive program of accessibility improvements.

Objectives: Review project objectives and strategy for successful launch Explore our approach to customer engagement; competitive analysis; design thinking, interaction, and visual rebranding: SEPTA Metro Share wins, roadmap, and ongoing challenges Present actionable takeaways that can be applied to your own projects

Stacey Richardson , Director, Transit Account Executive and Program Manager, *CapTech*

(moderator)

Emily Yates , Chief Innovation Officer, *Southeastern Pennsylvania Transportation Authority (SEPTA)* (speaker)

Mark Badger , Fellow, Creative Director, *CapTech* (speaker)

Yannick Baudru , Director of Emerging and Specialty Technologies, *Southeastern Pennsylvania Transportation Authority* (speaker)

Andrew Gray , Sr. Manager, Transit Mobile Specialist, *CapTech* (speaker)

1:15 PM - 2:05 PM

Your Streetlight as a Meter? Tracking Carbon Reduction with Smart Streetlights

LED adoption has penetrated ~50% of outdoor lighting in the U.S. and potential energy savings with streetlight controls is substantial, driving cities and utilities to shed light on their own energy bills. Lighting represents ~40% of a municipal's energy spending, but without monitoring and controls, costs must be estimated with flat rate tariffs, leaving cities in the dark about the true costs of their lighting systems. As the adoption of smart city sensors under industrial IoT (IIoT) streetlight canopies also grows, lack of visibility into these assets affects operations and drives energy consumption up–with cities and utilities footing the bill.

In 2021, ANSI published the C136.50 standard for Metrology of a Network Lighting Control, opening the door to accurate and timely billing. Now, consumption data from certified NLC's can support TOU tariffs for smart lights and sensors—just like a smart meter at home. Regulatory bodies can then leverage this data to design flexible rate programs that can result in more equitable billing for municipalities and incentivized peak conservation for consumers. Further, smart lighting can as a network platform for sustainability, digitalization, and public safety services, ultimately accelerating value and improving quality for communities of all sizes.

Rachael Newberry , Program Director, *RIoT* (moderator)

Carlos Lopez , Sr. Product Marketing Manager, *Itron* (speaker)

Amanda Dixon, Sr Business Growth Mgr, *Itron* (speaker)

Larry Paulhus , Senior Consultant, *Patrick Engineering Inc.* (speaker)

1:15 PM - 2:05 PM

Building in Public: Developing Shared Open Source Software in Government

Government teams expend significant resources trying to adapt commercial off-the-shelf (COTS) tools to meet critical public needs, yet only a fraction of those projects succeed. What might a more collaborative and sustainable approach to government software development look like? From delivering services to record-keeping to community outreach, teams across governments face common challenges that can be addressed with similar solutions. Open source projects that are shared across governments not only reduce redundancies but also foster innovative solutions that better adapt to community needs. We will discuss strategies and challenges in developing and maintaining shared open source software, citing real-world examples from city and state agencies that led projects with support from the Google.org Fellowship program. For example, we will discuss lessons learned from the development of civiform.us, a responsive web app that streamlines the application process for residents and their trusted intermediaries. The tool allows folks to enter their information once for use across program applications, ultimately reduced the average time to complete an application from 33 min down to 3. Finally, we share stories of public servants organizing and advocating for more collaborative approaches to leveraging technology in government.

Jen Carter , Global Head of Technology, *Google.org* (moderator)

Elise Kalstad , Affordable Seattle Program Manager, *City of Seattle* (speaker)

Zach Berke , CEO, *Exygy* (speaker)

1:15 PM - 2:15 PM

Smart Cities Startup Challenge II: Urban/Municipal Infrastructure

The 11th annual Smart Cities Connect Challenge bring together technology & solution providers working on next generation Smart City solutions with city, military, investors, and industry leadership.

Emma Mooney, Project and Outreach Manager, *TechConnect ATI* (moderator)
Ross Roley , Cyber Innovation Lead, *Battelle in Support of U.S. Indo Pacific Command (USINDOPACOM)* (review panelist)
Yvonne Gamble , CEO, *SanPete Financial Group* (review panelist)
Sarah Gomach , Senior Prize Leader, *NREL* (review panelist)
David Rios , Defense Technical Information Center and Information Analysis Centers Field Advisor imbedded with US Central Command, *Cloud Lake Technology, LLC* (review panelist)
John Holden , Smart City Manager, *City of Raleigh* (review panelist)

2:10 PM - 3:00 PM

AI and Cybersecurity - impact on Smart Cities

AI has brought added dimensions to cybersecurity. We will discuss the new and emerging risks, and how smart city architects and leaders can design in ways to combat them

Jim Haskins , Director of Community Engagement, *Open Sustainability Collaborative* (moderator)
Dasha Deckwerth , CISO & President, *Stealth-ISS Group, Inc.* (speaker)
Robert Davies , Chief Executive Officer, *Stealth-ISS Group, Inc.* (speaker)

2:10 PM - 3:00 PM

Microweather Modeling and Empowered Data to Battle Heat Stress in Cities

Mike Robinson, Senior Principal Engineer, *Mitre Corporation* (moderator)

2:10 PM - 3:00 PM

Connected Autonomous Shuttle Supporting Innovation (CASSI) in Cary's Bond Park and at Charlotte: Data and Outcomes from Two Automated Shuttle Pilots

The North Carolina Department of Transportation (NCDOT) and communities statewide are partnering to test and evaluate autonomous vehicles in pilots that provide free shared rides to the public through the Connected Autonomous Shuttle Supporting Innovation (CASSI) program. CASSI shows the public what autonomous vehicle technology can do in safe, real-world settings. CASSI evaluates how autonomous vehicles can best be used by riders with different needs and in different environments. Pilots focus on transit applications such as first mile/last mile solutions and demonstrating connected vehicle infrastructure. NCDOT's most recent automated shuttle pilots under the CASSI program were in Cary's Fred G. Bond Metro Park (Bond Park) and at the University of North Carolina at Charlotte (UNC Charlotte) campus. This panel will provide an overview of the pilots with a focus on the partnerships and data that were critical to evaluating an automated shuttle as a transit option in two different environments: a municipal park and a university campus. This panel will detail the

teamwork, problem-solving, and outcomes achieved by NCDOT, Cary, the Charlotte Department of Transportation (CDOT), UNC Charlotte, and the technology vendors across the two projects and will offer lessons learned for future automated vehicle pilots.

Sarah Searcy, Senior Advisor for Innovation, *North Carolina Department of Transportation (NCDOT) Integrated Mobility Division (IMD)* (moderator)
Gregory Power, Data Scientist, *City of Cary, NC* (speaker)
Doug Lape, Associate Vice Chancellor for Business Services, *UNC Charlotte* (speaker)
Srinivas Pulugurtha, Professor and Research Director of Civil & Environmental Engineering, *The University of North Carolina at Charlotte* (speaker)
Justin Sherwood, Deputy CIO, *Town of Cary, NC* (speaker)

2:10 PM - 3:00 PM

Digital Twins: Revolutionizing Critical Infrastructure Managemen

Join us for a panel discussion where experts will explore the game-changing role of digital twins in transforming critical infrastructure management. Discover how organizations are leveraging these twins as descriptive and operational tools to optimize efficiency and decision-making processes. Hear from leaders, including representatives from the Orlando Economic Partnership, who will share insights into expanding groundbreaking twins for regional benefits. Don't miss this opportunity to delve into the future of smart infrastructure management in the digital era.

Stephen Piper, Lead Client Partner, State of Rhode Island, *IBM Consulting* (moderator)

2:10 PM - 3:00 PM

A Tale of Two Cities: How Charlotte and Orlando embraced the digital revolution

Smart Cities don't just happen by accident. They require dedicated leadership, clear problem statements, a shared community vision and goals, inclusive stakeholder engagement, and partnerships with regional agencies and private industry. Learn how two cities, Orlando FL and Charlotte NC, developed their Smart City initiatives through community engagement, assessment of technology options, and project prioritization to meet their identified needs. These cities are now implementing innovative projects to address digital equity and inclusion; electric and autonomous vehicles; resilience hubs and energy microgrids; innovation incubators, advanced air mobility (AAM), and more!

Curt Ostrodka, Director of Smart Communities, *VHB* (moderator)
Rachel Stark, Smart Cities Program Manager, *City of Charlotte, NC* (speaker)
Katie Witherspoon, Curbside Management & Shared Mobility Section Manager, Charlotte Department of Transportation, *City of Charlotte, NC* (speaker)

2:30 PM - 3:30 PM

Smart Cities Startup Challenge III: Community Engagement

The 11th annual Smart Cities Connect Challenge bring together technology & solution providers working on next generation Smart City solutions with city, military, investors, and industry leadership.

Emma Mooney, Project and Outreach Manager, *TechConnect ATI* (moderator)
Sarah Nicoll, Co-Founder & CSO, *CivStart* (review panelist)
Heather McDougall, Senior Manager Strategy & Innovation, (review panelist)
Rachel Stark, Smart Cities Program Manager, *City of Charlotte, NC* (review panelist)
Kendal Prosack, Lead, Local Policy and Community Affairs (Alphabet), *Wing* (review

panelist)

2:00 PM - 6:00
PM
Expo Program & Reception

Thursday May 09, 2024

7:00 AM - 6:00
PM
Registration

7:45 AM - 8:30
AM
Early Bird Coffee Break

8:30 AM 10:40
AM
Keynote Program

8:30 AM - 8:40
AM
Opening Remarks - Day 2

>
> Ruthbea Yesner , Vice President, Government Insights and Smart Cities, *IDC Government Insights* (speaker)

8:40 AM - 9:10
AM
Risk Mitigation Models in New Technology to Benefit Cross Jurisdictional Collaboration

>
> Public sector entities - regardless of locality or size - face challenges with both understanding and and achieving buy-in from elected officials to deploy promising new technologies. The procurement process and strategic planning across silos to find 'one investment, multiple KPI' projects are critical. The barriers create scenarios where many good new ideas come to die. Innovative approaches to understanding a solution fully and identifying metrics to prove out the investment require creative approaches. Through initiatives from nonprofit consortiums like the NTXIA and Colorado Smart Cities Alliance, Calls for Innovation provide an avenue for multiple public sector entities to better understand the current landscape of the technology, and opportunities to evaluate it on-the-ground via tactics like demo days and pilots. These programs have resulted in multiple project deployments and positive outcomes.
>
> Jennifer Sanders , Executive Director, *North Texas Innovation Alliance* (moderator)
> Tyler Svitak , Executive Director, *Colorado Smart Cities Alliance* (speaker)
> Andrew Watkins , President and COO, *Marketplace.city* (speaker)
> Jonathon Bazan, Assistant County Administrator, *Dallas County* (speaker)
> Rebecca Tate , Research & Innovation Manager, *Denver International Airport (DEN)* (speaker)

9:10 AM - 9:30
AM
Empowering Cities to Control and Optimize Multi-Mode Traffic Flow – A Coalition

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> The Netherlands is considered one of the leading countries, if not the leading country, in serving its citizens and businesses with mobility services. Bicycles, of course, but all modes, from transit to freight, cars, and pedestrians, leverage the highly dense infrastructure very

well. It took over 50 years of focused policy, knowledge, and technology development, implementation, and drive toward operational excellence.

The United States of America is not The Netherlands. But what would happen when you package up the Dutch Transportation Solution, adapt it to various US situations, and deploy it? In this keynote, you will learn the fundamentals behind the solution, what it takes to implement it, and the dramatic material benefits of the deployments in the USA being received by citizens and businesses.

Paul Hoekstra , Business Unit Director, *TNL Mobility, USA* (speaker)

9:30 AM - 10:00 AM

The Power of Sight: Making Cities Smarter and Safer with Computer Vision Innovations

Urbanization demands innovation for creating safer, more efficient, and sustainable cities. Join our insightful roundtable where cross-industry leaders will explore how AI and more specifically computer vision is transforming urban life. Our diverse panel includes urban planners, transportation and infrastructure developers, public safety officials, sustainability champions, and other specialists who will discuss the potential of computer vision to enable smarter cities. We will delve into practical applications of this rapidly-evolving technology, such as enhancing mobility and safety through the extraction of visual data insights. Panelists will also share examples of overcoming silos through public-private sector collaborations aimed at harmonizing advanced technology with civic interests. Throughout this forward-looking dialogue, discover how computing innovations designed to mimic human vision are charting an optimistic path toward more livable and equitable urban environments. We invite you to join us as we illuminate how emerging capabilities in machine perception can intersect with human needs to advance the common good.

Andy Kane, Principal Business Development Manager, Industry Produtcs, *Amazon Web Services* (moderator)
Chris Diacov, Cofounder and CTO, *ActiVideo* (speaker)
Katie Gwathmey, Sr Director, Smart Cities team, Rubicon , (speaker)
Tiago Oliveira, Product Architect, *Amazon Web Services* (speaker)
Jason Tyre, Smart Cities Business Development Manager, *Milestone Systems* (speaker)

10:00 AM - 10:05 AM

Creating Something Beautiful in Cary (Walk in the Park)

Join the Town of Cary for an exciting journey into the future of urban green spaces as we unveil our groundbreaking project – the deployment of sensors on a LoRaWAN network in their brand-new downtown destination park. Attend the IoT: A Walk in the Park Workshop.

Nicole Coughlin , CIO, *Town of Cary, NC* (speaker)

10:05 AM - 10:35 AM

Building Public Trust for Digital Transformation

The rapid proliferation of technologies that facilitate data collection in the public right of way including location intelligence, IoT technology, V2X technology, beacon marketing, etc., is occurring at a time when trust in government is at an all-time low. While many of these technologies gather valuable data for cities, how can municipalities weigh these benefits against the risks to data privacy and public trust? How can cities work in tandem with residents to shape the parameters around the transparency, governance, and use of these tools? This panel seeks to delve into the complex intersection of technology deployment, community empowerment, and data governance strategies, emphasizing the need for

equitable practices in the digital transformation of cities. Participants will hear about applied solutions from practitioners working to build accountability, transparency, and public process into smart city technology initiatives.

Chelsea Collier , Editor-at-Large, *Smart Cities Connect Media & Research* (moderator)
Lauren Tarin , Smart Cities Specialist, *City of San Antonio, TX* (speaker)
Ashley MacQuarrie , rincipal Investigator and Program Director, *Communities Speak* (speaker)
Jacqueline Lu , CEO, *Helpful Places* (speaker)

10:35 AM - 10:40 AM
2025 Smart Cities Connect Conference Announcement

Emily Royall , Smart Cities Administrator, *City of San Antonio, TX* (speaker)

10:40 AM - 10:55 AM
Coffee Break

11:00 AM - 11:50 AM
Digital Transformation – it can be done!

Government agencies are experiencing a significant shift in the development and adoption of digital and emerging technologies. With pressure from government leaders, many government agencies now want to own the technology used on their projects/programs and, more importantly, own the data generated by these technologies. Many organizations haven't yet started the necessary transformation or are early in their process. Our panel of thought leaders and innovators from organizations such as yours, will discuss why their organization started their digital transformation journey, their approach, the risks of doing nothing, the challenges, securing funds, and benefits their organizations have gained from their digital transformation journey.

Richard Miesemer , Senior IT Consultant, *Parsons* (moderator)
Gina Nielson , Retired Project Controls Manager, *Las Vegas Valley Water District* (speaker)
Sadia Janjua , Chief of Digital Transformation, *Port Authority of New York and New Jersey* (speaker)
Ibraham Odeh , Founding Director of the Global Leaders in Construction Management, *Columbia University* (speaker)
Michael Youngs , VP of Information Technology Systems, *Dallas Ft Worth International Airport (DFW)* (speaker)

11:00 AM - 11:50 AM
Make AI Your Ally for Effective Asset Management

City managers are responsible for more assets than the largest private enterprises, a task made even more daunting by smart assets that transmit huge volumes of data. Disparate systems capture and store this information, but without integration and analysis, administrators can't make sense of the data or generate the insights necessary to make their city more efficient and sustainable. This session will share lessons learned when one of the world's largest cities applied advanced data and AI to better understand

Tania Flasck , Director of Market Development, Utilities, *Sand Technologies* (moderator)
Mariela Alfonzo , Founder, *State of Place* (speaker)
Akshay Malik , Smart Cities Director, *City of Philadelphia, PA* (speaker)

11:00 AM - 11:50
AM
Bringing Smart Mobility into the Shared Economy

No vendor lock-in - scalable throughout districts, areas, connected towns and cities: what does it mean to implement a solution that has been developed as an integrated mobility service where everyone can easily share their cars, bikes, parking spots, trucks and charging stations with others based on open data, but at the same time combining this open data for traffic information, air and noice quality, crime prevention? City centers across the US are being invaded by free floating bikes and electric scooters, rollers or offering little to no benefit in terms of open and sustainable urban mobility. What if there was a system that 'smashed' everything together – from motorcycles to bicycles, to trash cars, to electrical cars to buses – into an integrated, managed and open source smart mobility, air quality and safetz system?

11:00 AM - 11:50
AM
City Spotlights: Urban Infrastructure

This moderated panel of city leaders will focus on practical and specific lessons learned, successes and failures, and the resulting best practices surrounding urban infrastructure.

Jennifer Morgan , Virginia Program Lead, *RIoT* (moderator)
Megan Anderson , Sustainability Director, *City of Raleigh, NC* (speaker)
Rodger Lentz , Assistant City Manager, *City of Wilson, NC* (speaker)
Christopher Mazzarella , CIO, Information Technology, *City of Tucson, AZ* (speaker)
Linda Poissant , CDOT Utility Right-of-Way Supervisor, *City of Charlotte, NC* (speaker)

11:00 AM - 11:50
AM
Community Engagement Impact and Partnerships with Cities

As emerging technologies constantly push the envelope of technological advancement, what are companies doing to ensure community acceptance is high? This session highlights why education and community engagement programs are needed as new technologies partner with cities. Attendees will walk away with a plan for how to incorporate community engagement in existing or new programs.

Chelsea Collier , Editor-at-Large, *Smart Cities Connect Media & Research* (moderator)
Jason Cooley , Executive Director, Allen Development Corporation, *City of Allen, TX* (speaker)
Genesis Gavino , Chief of Staff, *Dallas, TX* (speaker)
Kendal Prosack , Local Policy and Community Affairs Manager, *Wing* (speaker)

11:00 AM - 12:00
PM
Smart Cities Startup Challenge - Investment and Partners Panel

As a startup, how do you find and leverage funding and partners? How do you discover if your technology has dual use capabilities? Join our panel of investment, federal, and military experts as they present recommendations and resources to take your company to the next level. Bring your questions and energy to this great panel!

Jennifer Rocha , Vice President-Strategic Partnerships, TechConnect Division, *Advanced Technology International (ATI)* (moderator)
Andrew Felbinger , Principal, *Urban Innovation Fund* (speaker)

Ross Roley , Cyber Innovation Lead, *Battelle in Support of U.S. Indo Pacific Command (USINDOPACOM)* (speaker)
Yvonne Gamble , CEO, *SanPete Financial Group* (speaker)
Sarah Gomach , Senior Prize Leader, *NREL* (speaker)

12:00 PM - 1:15 PM

Lunch (on own)

1:15 PM - 2:05 PM

Delivering Smart City Outcomes with AWS Partners

AWS cloud technologies are powering groundbreaking Smart City solutions to make cities more accessible, livable and sustainable for their citizens. Step into the future of urban innovation with AWS and our distinguished panel of partners—Opendatasoft, Quantela, and Klika Tech. From AI to IoT and beyond, discover how these AWS Partners harness the power of data to drive tangible outcomes, making cities more livable, sustainable, and citizen-centric. Join us for an insightful discussion on the transformative power of data-driven solutions in shaping the future of smart cities.

Billy Noojin, Global Manager, Smart City Competency Program, *Amazon Web Services* (moderator)
Ali Hasan , BDM–Industry Solutions, Public Sector, *Amazon Web Services* (speaker)
Adam Reiser , Sales Director, *Opendatasoft* (speaker)
Aaron Simkin , VP Strategic Partnerships & Alliances, *Quantela* (speaker)
Gennadiy Borisov; President & Co-CEO, President & Co-CEO, *lika Tech* (speaker)

1:15 PM - 2:05 PM

Illuminating Sustainable and Smart Cities

Join Chris Danforth from Duke Energy, Northeast Group's Ben Gardener, and Keith Chinchar from Ubicquia in this panel presentation sharing lessons of scale from Duke Energy's largest intelligent streetlighting deployment of 2023. This innovative deployment allowed for a rapid, software-forward installation process, where smart nodes quickly connect to a cellular network and begin transmitting data securely. Duke Energy has achieved improved network control and real-time insights, including outage alerts and diagnostics for issues like power loss and wiring problems, and has streamlined repair processes with APIs for quicker, more efficient maintenance. Learn more about: Best Practices, Reduced Operations and Maintenance. Performance Tracking, Enhanced Control

Chelsea Collier , Editor-at-Large, *Smart Cities Connect Media & Research* (moderator)
Keith Chinchar, VP of Sales, Smart Street Lighting, *Ubicquia* (speaker)
Chris Danforth , Smart Technologies Manager, Outdoor Lighting, *Duke Energy* (speaker)
Ben Gardner , President, *Northeast Group* (speaker)

1:15 PM - 2:05 PM

City Spotlights: Smart Mobility

Hear how mobility solutions are shaping the future of smart cities. This panel of city leaders and innovators will discuss their mobility priorities and the biggest challenges they are facing in transforming urban mobility.

Chris Foreman , CEO, *Marketplace.city* (moderator)
Rodulfo Raimundo , Director of Innovation and Technology / Chief Innovation Officer, *City of Coral Gables, FL* (speaker)
David Spencer , Transportation Engineering Manager, *Town of Cary, NC* (speaker)

Emily Yates , Chief Innovation Officer, *Southeastern Pennsylvania Transportation Authority (SEPTA)* (speaker)

Madi Rogers , Director of Civic Innovation, *City of South Bend, IN* (speaker)

1:15 PM - 2:05 PM

Rethinking Urban Energy Together – Next Generation Technology-Use from Switzerland

Cities are responsible for 75% of global global resource consumption, energy use, as well as CO_2 emissions, thereby fueling global warming. Rethinking radically new ways of living, building, and designing our cities is therefore key to respecting our planet's limits. When addressing the future of cities and energy efficient use, fundamental research and thought provoking ideas are essential to present a realm of possibilities to daring policymakers, industry leaders, engineers, economists and the civil society. In Switzerland, researchers of diverse scientific background provide essential data and technology, such as modeling programs, thin-film solar modules, geothermal and AI-driven systems designed for urban ecosystems. This transfer of knowledge helps industry leaders and policymakers get a better understanding of the plethora of developments available and craft a vision which includes highly innovative solutions. Smart cities such as Lausanne, in focus here, are highly benefiting from research hubs, spin-offs and academic knowledge gravitating around them. Join us for an engaging presentation and talk with groundbreaking cleantech speakers from the city of Lausanne in Switzerland and discover how this thriving urban center is harnessing the potential of next-generation technologies to re-invent energy use.

Keynote presentation by Dr Alessandro Rotta Loria, Co-Founder and CTO of Enerdrape & Assistant Professor at Northwestern University Chicago.

- Enerdrape is a start-up founded at the Polytechnical Institute of Technology in Lausanne, bringing the first urban geothermal solution to market
- GEOEG , top notch engineering solution from Lausanne Switzerland, using underground structures to heat and cool urban districts

Followed by a discussion moderated by Olivia Gachoud, Head of Science & Technology at the Embassy of Switzerland in the USA

Olivia Gachoud , Head of Science and Technology Officer, *Embassy of Switzerland* (moderator)

Alessandro Rotta Loria , Co-Founder and CTO of Enerdrape, *Assistant Professor at Northwestern University Chicago* (speaker)

1:15 PM - 2:05 PM

IDC - Smart City Awards

Join IDC as we celebrate the award winners from the 2024 IDC Smart Cities North America Awards. This session will shine a spotlight on the winners of our 7th annual SCNAA. All the winning projects are from forward-thinking state, local and/ or educational institutions and founded on strong leadership and the innovative use of technology to serve the public and deliver outcomes. These awards are especially important as these organization executed and sustained successful smart city initiatives amid challenging times. Moderated by Ruthbea Yesner, Vice President, IDC Government Insights and Smart Cities and Communities Strategies, this awards session will focus on best practices for successful project implementations. Join us to gain insight into the critical success factors of these award-winning initiatives that made more sustainable and livable cities with new services and economic opportunities. To learn more about the 2024 award winners visit: https://www.idc.com/prodserv/insights#government-smart_cities_awards

Ruthbea Yesner , Vice President, Government Insights and Smart Cities, *IDC Government*

Insights (speaker)

1:15 PM - 2:05 PM

Smart Cities Startup Challenge IV: Smart Mobility and Award Ceremony

The 11th annual Smart Cities Connect Challenge bring together technology & solution providers working on next generation Smart City solutions with city, military, investors, and industry leadership. After the final pitch session, scores will be tallied and a 2024 Spring Smart Cities Challenge Award will be presented to the top-ranked company!

Jennifer Rocha , Vice President-Strategic Partnerships, TechConnect Division, *Advanced Technology International (ATI)* (chair)
Emily Yates , Deputy Chief Planning Officer-Innovation, *SEPTA* (review panelist)
Andrew Felbinger , Principal, *Urban Innovation Fund* (review panelist)
Dave Rios , Defense Technical Information Center and Information Analysis Centers Field Advisor imbedded with US Central Command, *Cloud Lake Technology, LLC* (review panelist)
John Holden , Smart City Manager, *City of Raleigh* (review panelist)

2:15 PM

Smart Cities Startup Challenge Award Ceremony

2:10 PM - 3:00 PM

Bring AI to your Data: A Blueprint for Building a Smarter City

Welcome to this esteemed panel discussion, part of the U.S. Mayoral Roundtable at the Smart City Connect Conference. There is a growing trend across cities to implement computer vision AI solutions—using cameras and other sensors to capture data and insights. Thanks to advancements in camera technology and new breakthroughs in artificial intelligence, computer vision solutions are making cities safer, smarter, more efficient, and sustainable. To deliver on all the outcomes a city needs—improving the citizen experience, operational efficiency, safety and security, and sustainability—it is essential to design an architecture that offers a resilient, easy to orchestrate, scalable and flexible solution to meet the demands of smart city workloads.

Learn how to navigate these technology complexities to achieve your outcomes with a practical and realistic approach.

George Burciaga , Managing Director, *US Mayoral Roundtable* (moderator)
Jumbi Edulbehram , Global Business Development Director, Smart Cities and Spaces, *NVIDIA* (speaker)
Michael Hancock , Former Mayor, *Denver, CO* (speaker)
Greg Moya, CTO, *Dell Technologies* (speaker)
Michael Knight , CTO, *EpicIO* (speaker)

2:10 PM - 3:00 PM

AI & Digital Twins: Building Resilient Smart Cities

In an era where urbanization is on the rise and the effects of climate change are wreaking havoc on communities around the world, the intersection of Artificial Intelligence (AI) and Digital Twins holds immense promise in shaping the future of resilient infrastructure and safer communities. Participants will leave with valuable insights, actionable strategies, and a

deeper appreciation for the pivotal role that real-time data processing, AI, and Digital Twins play in delivering critical insights that help build a safer and more sustainable future.

Tyson Echentile, Sr. Global Manager - IoT & Streaming Analytics Business, *SAS* (speaker)
Gretchen Stewart, Principal Engineer and Chief Data Scientist, *Intel* (speaker)

2:10 PM - 3:00 PM

Looking Abroad to Propel Urban Planning and Traffic Flow Optimization

Urban Areas in the USA are confronted with rapid changes in how people and businesses use the urban space, adapt after the pandemic, and absorb technological changes, with increasing budget, cultural, environmental, and economic pressures. In this panel discussion, practitioners from San Diego, CA, and Dublin, Ohio, will share why they looked at proven solutions from The Netherlands to support them in multi-faceted near-real-time urban planning (San Diego), and multi-mode traffic flow optimization, safety, and city-specific use case implementation. With the solutions operational results and experiences will be shared in this interactive session.

Sandeep Mukunda   , Research Manager, Smart, Sustainable Mobility and Transportation Strategies, *IDC* (moderator)
Jean-Ellen Willis , Director of Transportation & Mobility,   *City of Dublin, Ohio* (speaker)
Peter van Oorschot   , Director North America,   *TNO* (speaker)
Paul Hoekstra , Business Unit Director,   *TNL Mobility, USA,* (speaker)
Teddy Martinez , Senior Manager of Research,   *San Diego Regional EDC* (speaker)

2:10 PM - 3:00 PM

Secure and Seamless: Revolutionizing City Services with Digital IDs

In an era where natural disasters and data breaches increasingly threaten both security and privacy, how can cities ensure seamless, secure access to essential services for their residents? Join us for an impactful panel discussion that explores the power of Digital IDs in transforming the speed and ease of interaction between government and citizens. This panel will discuss different technology approaches to establishing privacy preserving digital identity including portable IDs, use of wallets, and ID verification platforms as identity layers.

Learn how digital IDs are a means to reduce and eliminate fraud in emergency or cash disbursement programs, how digital IDs can empower nonprofits and community organizations in trust building, and the potential to transform municipal IDs into powerful, privacy protecting assets for citizens to safely access government services.

Mark Wheeler , Alogra / Former CIO,   *Philadelphia* (moderator)
Matthew Thompson, Sr   , VP and General Manager Public Sector, *Socure* (speaker)
Karla Ballard , Founder and CEO,   *Ying* (speaker)
Michael Sarasti , Urban Innovation Fellow for Lab22c,   *Founder Tigerbrook* (speaker)
Wayne Chang   , Co-Founder and CEO,   *Spruce Systems* (speaker)

2:10 PM - 3:00 PM

Smart Cities Startup Challenge - VI, Closing Remarks and Award Presentation

2:00 PM - 6:00 PM

Expo Program & Reception

Friday May 10, 2024

8:30 AM - 11:30 AM

Registration

8:00 AM - 8:30 AM

Coffee Break

8:30 AM - 9:25 AM

How AI and Data Deliver on the Promise of a Connected City

Cities are under immense pressure to offer connected, smart services to an increasingly digital constituency. The challenge is two-fold: identifying the areas with the greatest positive impact, and implementing the cloud-enabled systems to effectively manage them. Learn how one of the world's most tech-forward countries connected its healthcare system for citizens' benefit and established a digital control room that enabled managers to monitor and maintain the entire network in real time.

Nick Hu, Executive Director, Health Innovation, *Sand Technologies* (moderator)
Mark Wittenburg , Chief Information Officer, *City of Raleigh, NC* (speaker)

8:30 AM - 9:25 AM

City Spotlights: Urban Operations

This moderated panel of city leaders will focus on practical and specific lessons learned, successes and failures, and the resulting best practices.

Michael Suarez, Marketing Communications Specialist, TechConnect Division, *Advanced Technology International (ATI* (moderator)
David Graham , Chief Innovation Officer, *City of Carlsbad, CA* (speaker)
Ryan Kurtzman, Technology Partnerships Officer, *City of Long Beach, CA* (speaker)
Emily Royall , Smart Cities Administrator, *City of San Antonio, TX* (speaker)
Jen Tifft , Director of Strategic Initiatives, *City of Syracuse, NY* (speaker)

8:30 AM - 9:25 AM

Data Governance and Open Data in Smart Cities

Join Opendatasoft, the Town of Cary, the Town of Morrisville and the City of Raleigh as they lead a discussion on effective data governance practices in building smart cities. This panel aims to delve into the common policies and processes of open data initiatives within the context of smart cities. The session will highlight the importance of a robust data governance strategy while working with open data to foster innovation, transparency, and citizen engagement. From autonomous vehicles, to environmental monitoring, Cary, Morrisville and Raleigh will showcase how effective data governance has respected community privacy while allowing for growth. The panelists will collectively highlight best practices, challenges, and success stories in implementing open data strategies. This discussion promises to be a platform for knowledge sharing, encouraging attendees to explore the necessity of data governance in shaping smarter, more sustainable cities. Join us for this insightful panel and be part of the conversation on data governance in building the smart cities of the future.

Adam Reiser , Sales Director, *Opendatasoft* (moderator)

Jim Alberque , GIS and Emerging Technology Manager, *City of Raleigh, NC* (speaker)
Justin Sherwood , Deputy CIO, *Town of Cary, NC* (speaker)
Gregory Power , Data Scientist, *Town of Cary, NC* (speaker)
Billy Whitehead , Smart City Program Manager, *Town of Morrisville, NC* (speaker)

Wednesday December 31, 1969

Smart Growth with AI

Explore the transformative potential of AI in addressing the challenges faced by growing cities striving to achieve more with fewer resources. Delve into the diverse applications of AI, ranging from tackling homelessness to optimizing 311 call centers and operational processes. Join us for a panel as we examine how cities have navigated the inception of their AI initiatives, sharing invaluable insights, lessons learned, and tangible outcomes along their journey.

Thomas Nisbet, Associate Partner, AI and Analytics, State and Local Government, *IBM Consulting* (moderator)

Friday May 10, 2024

9:30 AM - 10:25 AM

How the New York City Economic Development Corporation Uses Software & 3rd Party Service Partners to Accelerate Decarbonization, Energy Efficiency & Building Performance Standard Compliance Efforts

The New York City Economic Development Corporation (EDC) is facing the challenge of managing energy use, costs, and carbon emissions across its extensive 400+ building portfolio. Navigating the complexity of compliance with stringent local energy laws and the unique mix of externally leased and internally occupied buildings has demanded a strategic solution. Enter EDC's groundbreaking strategy – a dual-pronged approach integrating cutting-edge software and a dedicated 3rd-party energy services provider. Leveraging advanced software, EDC centralizes its energy data swiftly, accelerating aggregation and pinpointing high-impact energy efficiency opportunities. This expedites compliance with local laws and streamlines decision-making for implementing economically viable energy carbon reduction projects. To maximize the potential of this software-driven initiative, EDC has enlisted a 3rd-party energy service provider. This partnership facilitates seamless data collection, rapid analysis, compliance reporting, and portfolio benchmarking. Virtual and onsite energy audits further enhance the corporation's ability to prioritize and implement impactful initiatives. Join us as we delve into EDC's innovative energy management journey, showcasing the power of technology and strategic partnerships in creating a sustainable and compliant future.

Ben Levine, Director of Business Development, *buildee®* (moderator)
Bryan Conklin, CEO & President, *buildee®* (speaker)
Matt Landin, Assistant Vice President, Energy Portfolio, *New York City Economic Development Corporation* (speaker)

9:30 AM - 10:25 AM

Sustainability and the City: Smart Solutions for Municipal Sustainability Initiatives

The Research Triangle region of North Carolina is a hotspot of both emerging technology and local government sustainability initiatives. City Sustainability Managers are the linchpin

of local efforts to improve governments' efficient use of resources and to make cities more sustainable, livable, and equitable. This panel will feature three municipal Sustainability Managers from around the region who will discuss their initiatives to transition to clean energy, reduce carbon emissions footprints, and leverage technology as a force multiplier to enhance local government productivity and operational efficiency.

Daniel Kauffman, President & CEO,   *Enpira Inc.* (moderator)
Amy Armbruster, Sustainability Manager,   *City of Durham, NC* (speaker)
Sara Caliendo, Energy Manager,   *Town of Cary, NC* (speaker)
John Richardson, Community Sustainability Manager,   *Town of Chapel Hill, NC* (speaker)

9:30 AM - 10:25 AM

City Spotlights: Community Engagement

This panel will focus on practical and specific lessons learned, successes and failures, and the resulting best practices used over the past years by these diverse and unique cities.

John Holden , Smart City Manager,   *City of Raleigh, NC* (moderator)
Carolyn Roman , 311 Assistant Director,   *Town of Cary, NC* (speaker)
Lynette Hall , Community Engagement Manager,   *City of Sacramento, CA* (speaker)
William Serratore , Sustainability Development Director, Mayors Office, *City of Yonkers, NY* (speaker)
Genesis Gavino , Chief of Staff to the City Manager and Resilience Officer, *City of Dallas, TX* (speaker)

10:30 AM - 11:25 AM

Data + AI for Revitalizing America's Parks Systems

Data + AI is critical for smart, safe and sustainable cities. America's parks systems are aging. Budgets are tight for recreation and parks. But parks were our saving grace during the covid pandemic, enabling people to recreate safely and stay healthy through a very tough pandemic year. This panel is intended to discuss how parks agencies are collecting data about parks usage, events, activites, festivals, and how such data can be used for usage-based budgeting and prioritization. The panel will talk about data collected from successful new programs like "slow streets", and share their thoughts about the evolution of such programs post-COVID as cities have now reopened. The panel will also discuss how socio economic factors and mobility programs can ensure equitable access to the parks systems.

Carl Nielson, Head of North America & Europe,   *CITYDATA.ai* (moderator)
Isaac D. Castillo, Senior Advisor – Learning and Evaluation, *KABOOM!* (speaker)
Apurva Kumar, CEO,   *CITYDATA.ai* (speaker)

10:30 AM - 11:25 AM

Lower the Costs of Taking on New Projects: A framework for starting with your existing infrastructure

Transformative projects abound with technology advancements more accessible than ever. Correct implementation can be a game changer for achieving equitable and systems-focused change for organizations of any size. But the best of intentions can fall flat without the resources to deliver, the consultation and engagement of residents, and the buy-in from stretched thin staff and partners with different outcome drivers. During this session, the moderator will highlight a framework for equitable project design that demonstrates how to build off of existing infrastructure, partnerships, and funding. The panelists will showcase this framework, giving applied examples of ways they designed and implemented

infrastructure monitoring, accessible transportation, and data driven solutions for impactful change in communities across the country. These real life examples will highlight operational methodologies for improving stakeholder buy-in, identifying existing infrastructure from which to build, and securing investments that demonstrate fiscal responsibility.

Karoline Pershell , Mathematician and former Monitoring and Evaluation Coordinator for the Dept of State., *SRT Labs* (moderator)
Teresa Lange , Consultant, *Social Impact Strategist* (speaker)
Georgina Sanchez , Research Scholar , Center for Geospatial Analytics, *NC State University* (speaker)
Michelle Snider , Senior Data Scientist, *SRT Labs* (speaker)

10:30 AM - 11:25 AM

Fiber vs Laser: Technology & Costs Study On Next Generation Infrastructure

Internet backhaul is undergoing a significant upgrade to handle Smart City computing needs. While fiber delivers great bandwidth and reliability, the costs are extremely high, the right of way negotiations have challenging standards, and construction timelines are subject to delays and traffic that have a significantly negative carbon-footprint. "Wireless fiber" can get your community up to speed in days, not years, , with zero-emissions and at a fraction of the cost. In this session, you'll learn about about Free Space Optics, the technical capabilities of laser communication today, and the comparison costs analysis of adding capacity to interest infrastructure in a dense urban city area.

Zev Suissa, Chief Growth Officer, *X-lumin* (moderator)
Darrin Mylet, CEO, *Telosa Networks* (speaker)
John Stryjewski, Theoretical Physics, and CTO, *X-lumin* (speaker)
Abel Ramirez, Business Solutions Architect, *Cisco* (speaker)

10:30 AM - 11:25 AM

Behind Life-Changing Technologies Connecting Citizens: Empowering Inclusivity Through Collaboration and Technology

In exploring the evolution of smart cities, it becomes evident that technology alone is not the sole driver. Rather, it is the fusion of digital solutions with community engagement and equitable practices that defines the trajectory toward a more livable future. Traditionally synonymous with technological advancement, the smart cities movement, in addition to sustainability, is now shifting towards prioritizing equity. While smart technologies offer myriad benefits, such as increased civic engagement and trust in City officials, recent reassessments underscore the importance of addressing emerging inequities. This narrative highlights the transformative power of integrating technology, community collaboration, and equity-driven strategies to shape cities that are not only technologically advanced but also inclusive and equitable. In our panel discussion, we delve into the critical fusion of community collaboration and technology to foster equitable smart cities. Our focus is not merely on bridging the digital divide but on weaving a fabric of inclusivity through genuine engagement.

Maurizio Rinaldi, CEO, *SONDA* (moderator)
Beatriz Gago, Smart Cities & Mobility Sales Specialist, *SONDA USA* (speaker)
Carlos Tamayo, Smart City SME, (speaker)
Lee Davenport, Director, Community Development, *US Ignite* (speaker)

11:30 AM - 12:25 PM

Transforming Urban Landscapes: A Deep Dive

into Glendale's Smart City Blueprint - Integrating Leadership, Innovation, and Industry Solutions for a Data-Driven Future

City of Glendale is invested in fostering a collaborative and co-creative smart culture for its citizens and stakeholders. Their smart city initiative e.g., "The evolution of Modern Data Platform" designed to serve 28 different city departments, from Fire to Finance and Water to Waste Management, it includes numerous use cases and vendors, such as Microsoft, Tyler Technologies, Oracle, Esri, Motorola, Snowflake, and Collibra. Partners like I&I are helping cities build solutions to tackle these challenges. In this session you will learn how the City of Glendale was able to work with I&I and its various partners, in creating multiple smart city solutions and aggregating data from multiple applications across the city for reporting and analytics. The city is also using GIS data for governance and able to expose these through the concept of digital twins. We will talk about Glendale's award-winning GIS Center of Excellence. Glendale was the first city in Arizona to implement the generative AI initiative. We will discuss the journey of implementation the journey of generative AI. You will learn how the innovative solutions impacted the citizens lives and cities growth during Major national supporting events hosted in Glendale (FinalFour & Fiesta Bowl).

Iffat Tariq, Chief Digital Officer, *I&I Software Inc.* (moderator)
Feroz Merchhiya , CIO and CSO, *City of Glendale* (speaker)
Adam Reiser , Sales Director, *Opendatasoft* (speaker)

11:30 AM - 12:25 PM

The smart city transformation of Washington, D.C. powered by 75,000 inteliLIGHT® streetlight controllers

Washington's DC vision for a smarter, safer and more energy efficient city laid the foundation for one of the largest urban streetlight modernization projects in the US. The DC Smart Street Lighting Project, implemented by the long-term public private partnership between District of Columbia and the Plenary Infrastructure DC (PIDC) consortium, has a significant environmental and economic output, aiming to reduce the energy consumption by more than 50%, optimizing maintenance operations and enabling safer, more connected communities. Besides converting all the city's street and alley lights to energy-efficient LED technology, the project deployed inteliLIGHT® smart street lighting NEMA controllers to provide individual lamp control and monitoring capabilities and uses inteliLIGHT®'s Streetlight Control Software, integrated with the existing maintenance and workforce management software, for city-wide grid awareness and maintenance optimization. The panel discussion will ideally consist of a joint discussion between major players from all realms of the public sector to discuss their utilization of data and AI to up-level the services they bring their their communities and organizations.

Andrei Marin , Technical Sales Manager, *Flashnet* (speaker)
Christian Lockard, Senior Engineering Advisor, *Engie North America* (speaker)

11:30 AM - 12:25 PM

Engaged Communities in Smart Cities: Challenges and Opportunities

Engaged Communities in Smart Cities: Challenges and Opportunities Smart cities are not only about technology, but also about people. Engaging citizens in the planning, implementation, and evaluation of smart city initiatives is crucial for ensuring their success and sustainability. However, fostering community engagement in smart cities is not an easy task. It requires collaborative leadership, effective communication, and inclusive participation from diverse stakeholders. In this panel, we will explore the challenges and opportunities of building engaged communities in smart cities. We will discuss the following

questions: - What are the benefits of community engagement for smart cities? - What are the barriers and gaps that prevent citizens from actively taking part in smart city projects? - What are the best practices and strategies for enhancing community engagement in smart cities? - How can smart city technologies facilitate and support community engagement? - What are the ethical and social implications of community engagement in smart cities? The panel features city leadership, urban planning experts, and technologists, who will share their insights and experiences from different smart city contexts. The panel will also invite questions and comments from the audience, aiming to stimulate a lively and interactive discussion"

Simmi Prasad , Advisor, *Varidx* (moderator)
Rick Ralph , Chief Information officer, *Town of Morrisville, NC* (speaker)
Adam Oates , Chief Information Officer, *Town of Wake, NC* (speaker)
Terry Mahaffey , Council Member, *Apex* (speaker)

12:30 PM
Smart Cities Connect Conference Closed
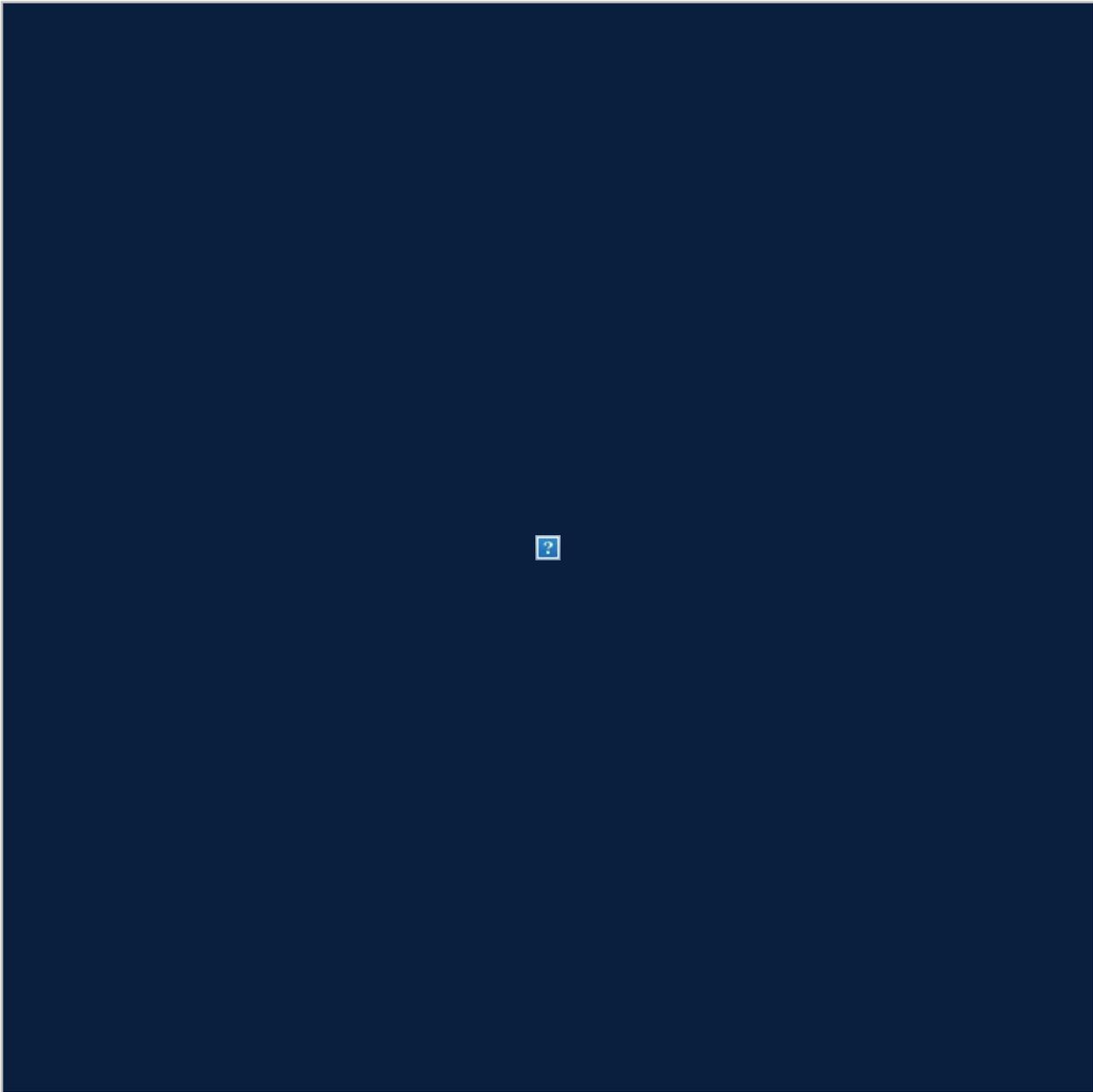
1:30 - 7:00 PM
Post Conference Workshop: IoT: A Walk in the Park (Town of Cary)

Welcome to a workshop like no other! Join us for an exciting journey into the future of urban green spaces as we unveil our groundbreaking project – the deployment of sensors on a LoRaWAN network in our brand-new downtown destination park. This workshop provides a balanced perspective on the deployment. Get ready to be captivated by the possibilities, inspired by innovation, and learn about the challenges and potential pitfalls that come with this endeavor.

By the end of this workshop, you will be equipped with a well-rounded perspective on LoRaWAN network deployment and sensor integration, ready to navigate the terrain with a comprehensive understanding of both the exciting opportunities and the challenges that lie ahead.

Bus transportation, lunch and networking reception included. **Buses depart for Downtown Cary Park at 12:45 PM and depart the park at 7:15 PM for the Raleigh Convention Center.**

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