



Smart Transportation Conference & Exhibition 2024

May 22 - 23, 2024 | London, UK

Leveraging The Technology Innovation and Digital Revolutions

**3 Ways
to Register**

Website: www.transportation-conference.com

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OFFICIAL AGENDA

Day 1 | Wednesday, May 22, 2024

(Agenda as of 14 Dec. 2023 and subject to change)

● Sponsored Sessions ● Booked Sessions ● Available Sessions

07:30

Registration & Refreshment Networking

08:30

Available Session

09:00 | TITLE SPONSOR

How Qualcomm new technology empowers developers and enterprises to easily build real-time intelligence and visibility solutions

- Simple, secure, and scalable cloud-based services, power-optimized and precise location tracking, and an extensive hardware ecosystem work together to deliver tailored digital transformation solutions for use cases across industries.



Ramzi Alharayeri
Director, Cloud services, Qualcomm



09:30

Delivering the right environment for the UK intelligent transport sector to thrive

- Overview of the current state of the intelligent transport sector in the UK
- Key benefits, opportunities and challenges for the sector
- Key asks of Government to ensure the sector can flourish



Max Sugarman
Chief Executive, Intelligent Transport Systems UK (ITS UK)



10:00

Innovative projects in the Southeast of Scotland region (MaaS, DRT, real-time passenger information & VoyagAR)

- Trialling MaaS in Scotland and how partnership working with other regional transport partnerships helps to scale up MaaS (GoSEStran & Enable projects - Home | Integrated Mobility (integratedmobilitypartnership.co.uk))
- How real-time passenger information and DDRT services could help contribute to a modal shift
- Utilising digital improvements to improve accessibility and equality for travelling via public transport - the VoyagAR | Thistle Assistance Thistle Assistance | Your Travel Companion - Discreet public transport support at your fingertips project



Hattie James
Project Officer, SEStran



Breakfast & Networking Break

10:30 (30 mins)

11:00

Reserved for Durham County Council



11:30

Net Zero in UK Urban Aviation

- Objectives, Increase the effectiveness of traffic management in Coventry, leading to reduced congestion, pollution and associated economic / social benefits.
- New modes of Transport Innovation for future proofing our cities.
- What do we mean by Future of Flight, Potential benefits of drones?



Sunil Budheo
Transport Innovation Manager, Coventry City Council



12:00

The role of autonomy in the public transport system

- What challenges are we solving - overview of transport programme and how automated vehicles can help solve some of these challenges.
- An overview of the GCP's work on autonomy which has developed a pathway to deployment.
- Current Government funded project which will be an at scale public transport deployment.



Daniel Clarke
Strategy and Partnerships (previously Programme Manager) Smart Cambridge, Greater Cambridge Partnership



12:30

Smart Transport and the Twin Transition

- All sectors, including transport, are increasingly digitizing while trying to become sustainable (the twin transition)
- What is smart and sustainable transport (the ecosystem: public transit, freight, logistics, EVs, infrastructure, etc.); what tech is needed to propel it/optimize multi-modal transport, and how does technology make (or break) net zero goals (i.e., tech doesn't always have a low carbon footprint)
- What is the labour market landscape for the transport twin transition; supply/demand of workers; what jobs/skills are in-demand; how can current workers upskill/reskill to meet emerging needs and help businesses compete



Alexandra Cutean
Chief Research Officer, ICTC-CTIC



Lunch & Networking Break

13:00 (1 hour)

14:00

Influencing Transport Lab - insights from our Demand Responsive Transport Behavioural Research

- Our presentation will discuss how the Influencing transport lab aims to address the challenges in delivering effective behaviour change locally, regionally, and nationally. It will also present our ambition to create an evidence base and share best practice around travel behaviour change.
- It will demonstrate how a behavioural approach can be applied to demand responsive transport (DRT). It will highlight what an investigation of users' and non-users' perceptions tells us about delivering a DRT service that meets their mobility needs.
- Finally, it will present results from testing social modelling interventions in demand responsive transport, to understand how effective they are at increasing the uptake of DRT.



Prabs Johal
Senior Future Mobility Developer-Behaviour Change, West Midlands Combined Authority



14:30

Investing in the Next Era of Climate-Smart Transportation Solutions

- Emerging Trends in Climate Tech: Highlighting innovative solutions shaping the transportation landscape and their impact on climate.
- The Role of Venture Capital: How early-stage VC can accelerate the deployment of sustainable transport technologies and solutions.
- Future Prospects and Challenges: Discussing anticipated hurdles, market opportunities, and the long-term vision for a sustainable transportation ecosystem.



Puja Balachander
Director of Venture, Carbon13



15:00

Engineering with AI

- An overview of essential terms from both technical and legal viewpoints
- Case demonstrating the potential of using AI engines within design environments
- National AI Initiative Act of 2020 and the related Executive Orders in the US and their implications on emerging AI technologies



Anand Stephen
Digital Delivery Leader, Gannett Fleming



15:30

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Trevor Brennan
Transport Implementation Lead (Project Lead), England's Economic Heartland



Networking Break

16:00 (30 mins)

16:30

SME approach to reducing carbon emissions

- Being an SME in the current transition to decarbonisation presents tough financial and moral challenges. We know we need to achieve decarbonisation, financially it might not be possible right now to get to net zero, do not overlook what you CAN do.
- Do not overlook what you CAN do. Set out your business operations current format, identify what creates your carbon output, look at the alternatives that are financially viable to your business.
- Implement your new alternatives, review again, carry on evolving, improvement is key, end goal is not always achievable, steps and difference matters.



Craig Pennington
Group Head of Transport, Universal Tankers



17:00

Navigating the Future: The Crucial Role of Police in Enhancing Community Safety within Smart Transportation Systems"

- Integrating Law Enforcement with Smart Transportation Technologies: Exploring how police can utilize advanced technologies like AI, IoT, and data analytics for more effective traffic management and crime prevention.
- Building Trust and Collaboration: Strategies for fostering stronger relationships between law enforcement and communities, ensuring a more collaborative approach to safety in smart transportation environments.
- Addressing Privacy and Ethical Considerations: Balancing the use of technology in policing with respect for individual privacy and ethical considerations in surveillance and data collection.
- Training and Development for Modern Challenges: Emphasizing the importance of continuous training for police officers to adapt to the evolving landscape of smart transportation and its associated challenges.



Eddrick Williams
Crime Analyst, Memphis Police Department



Drink Reception

17:30

Gala Dinner

19:00

OFFICIAL AGENDA

Day 2 | Thursday, May 23, 2024

(Agenda as of 14 Dec, 2023 and subject to change)

● Sponsored Sessions ● Booked Sessions ● Available Sessions

08:30

Reserved For MTR Elizabeth line



09:00 | PLATINUM SPONSOR

Transforming Transportation for a Sustainable Future: Navigating the Complex Landscape of Climate Change Challenges

- Understanding Climate Change Impacts: A comprehensive analysis of the environmental and social implications of climate change on the transportation sector.
- Innovative Technological Solutions: Exploring cutting-edge technologies and strategies for reducing carbon emissions in transportation, from electric vehicles to alternative fuels.
- Resilience and Adaptation: Discuss the challenges of adapting transportation infrastructure to the changing climate, including the impact on coastal and urban areas.
- Global Collaborations: Highlighting the importance of international cooperation and industry partnerships to address the complex issue of climate change in transportation.
- Policy and Regulation: Examining the role of government policies and regulations in mitigating climate change within the transportation sector.



Atul Manmohan
Electrical Engineer, Transportation Systems Rail & Transit Canada West, **WSP in Canada**



09:30

How strategic data sharing hubs can spur innovation in our multimodal transport ecosystem.

- Taking real-life examples from the Rail Data Marketplace, this presentation looks at how data sharing can spur innovation to improve the passenger experience, improve operational efficiency and more effectively connect different modes of transport to delight the customer.



Jez Smith
Rail Data Marketplace Lead, **Rail Delivery Group**



10:00

Energizing Mobility: Grid Resilience for Sustainable Clean Transportation

- Climate Change and the Growing Grid Vulnerability: We will delve into the increasing frequency of natural disasters driven by climate change, such as hurricanes, wildfires, and extreme weather event. All while highlighting the impact natural disasters have on not only the electric grid but the impact they have on the commercial market including first responders.
- The Importance of Grid Resiliency: The future success of transportation electrification requires predictable and reliable access to electricity. In this section will focus on three key areas. Firstly, the vital role of grid resiliency in powering zero emission vehicles and advancing transportation electrification. Second, why resiliency matters for the stability of our energy infrastructure amid climate challenges, while providing an estimated overall electricity demands that will be required as the world moves towards 100% electrification across the light, medium, and heavy-duty vehicles. Lastly, explore traditional resiliency measures that bolster grid stability and
- Solutions and Overcoming Constraints: In this segment, we will take a closer look at solutions for grid resiliency. We will start with a deep dive into microgrids, their advantages, and how they bolster grid reliability. Then, we will explore the Energy-as-a-Service model for energy security and adaptability. Lastly, we will address practical challenges, including regulatory, financial, and technical hurdles, that must be overcome to realize grid resiliency.



Maureen Marshall
Senior Director, **CALSTART**



Katie Tomaszewski
Project Manager, **CALSTART**



Breakfast & Networking Break

10:30 (30 mins)

11:00

Using data standards to achieve integrated transport solutions for customers

- Bus priority
- Passenger Information
- Data analytics and performance reporting
- Looking the architecture for European public transport data standards, implementation examples, and how these are developing to meet the future requirements of the industry and tomorrow's passengers.



Tim Rivett
General Manager, **RTIG**



11:30 | GOLD SPONSOR

Internet of Things: Transforming Security in Smart Transportation

- This presentation will expand upon the guidance and information presented in last year's "IoT: Pushing New Security Boundaries in Smart Transportation" with updates that have been added to the guidance and additional use cases.
- Internet of Things Embedded Security Guidance for Vendors is a new collection of security advice and best practices for IoT developers published by the Center for Internet Security (CIS) in collaboration with leading industry experts and key stakeholders.
- With the smart transportation market likely to surpass \$250 billion by 2030, the rise in integration of smart transportation technologies (cloud-based, vehicle-to-vehicle, etc.) raises the concern of the level of security that can be provided.



Benjamin Carter
IoT Specialist, **Center for Internet Security**



12:00 | GOLD SPONSOR

Equitable electric vehicle carsharing in rural and mid-sized communities in California

- Best practices in implementing mobility options in disadvantaged communities and technical assistance provided to educate communities on electric vehicles.



Gloria Huerta
Chief Operating Officer, **Miocar**



12:30

How do we integrate smarter safety and security with smarter transportation systems to ensure we are better prepared if disaster strikes.

- Protecting our multi-modal transportation hubs of the future requires an integrated approach to security risk management, from concept design to passenger operations.
- Integrating safety and security with new, smarter transportation systems requires effective techniques to design out crime, providing crime prevention measures through environmental design.
- Preparing for major emergencies is a vital part of improving our capability for emergency response and resilience, and minimizing business interruption.



Tony Thompson
Director, **OTHO LTD**



Lunch & Networking Break

13:00 (1 hour)

14:00 | SESSION SPONSOR

"There's more to life than a car". Powered Two, Three and Light 4 Wheel Vehicles (Powered Light Vehicles) can provide a more environmental efficient form of mobility as a serious alternative to the car

- Whilst electric cars & vans appear to be the solution to the climate challenges, Governments appear to be ignoring the climate impacts these solutions have on the wider environment. The objective for Western Governments must not be to displace the problem elsewhere.
- Energy security is becoming a major concern, with this in mind battery electric and the raw materials needed in battery production will create new risks and environmental impacts not yet fully understood or ignored.
- Powered Light Vehicles from a Life Cycle Analysis perspective is far more environmentally efficient to manufacture, operate in life and manage waste at end of life. This vehicle type will provide mobility solutions for both people and goods in the urban and sub-urban setting, requiring less road space, reducing congestion and in many cases zero emissions at the tailpipe.



Tony Campbell
Chief Executive, **Motor Cycle Industry Association Ltd**

14:30

Exploring how connected and autonomous mobility can help deliver economic growth

- Set out the Commission's progress on its study on the opportunities offered by automation and connectivity for delivering improvements to road safety, reducing congestion, improving the reliability and accessibility of transport services, and increasing productivity, and consider the implications for how the UK operates and maintain its road infrastructure.
- Explore emerging findings and insights from the first phase of the study and identify the areas where the Commission is likely to focus its recommendations, outlining what interventions in the country's road and other infrastructure (including data) may be required to realise the benefits from this emerging technology.
- Consider the policy and governance challenges that will need to be overcome to do this, within the context of uncertainty about the direction of future technological development.



Sophie Donaldson
Assistant Director, National Infrastructure Commission,
National Infrastructure Commission



Greg McLymont
Assistant Director, National Infrastructure Commission,
National Infrastructure Commission



15:00

Digital corridors or benefits and challenges of smart junction technology at a regional road network scale.

- England's Economic Heartland commissioned City Science to understand the potential for Intelligent Transport Systems (ITS), in particular smart signalised junctions or smart junctions within the EEH road region. This technology trialed by City Science, VivaCity and others have demonstrated the role that new algorithms could play in easing traffic flow or supporting the shift to more sustainable modes of transport (e.g. public transport, cycling and walking).
- The main conclusions drawn from the work include there is a lack of local authority knowledge and gaps in understanding the benefits and challenges of smart junction technology, opportunities for smart junction technology look promising when considering the relatively lower costs and carbon impacts compared to traditional infrastructure upgrades (as there is a reduced reliance on large new infrastructure) and there is a need to undertake microsimulation and/or the observation of live trials of smart signal junction technology on corridors should be considered, to further support deployment.



Martin Howell
Transport Markets Director, **Worldline UK&I**



15:30

EVs within the context of smart cities; perspectives from industry ; relative challenges

- Acceleration of decarbonization of the transportation sector within the EU context. The role of innovation and Research in achieving NetZero targets.
- Research areas of HELLENIQ ENERGY in regards to low carbon fuels as well as electrification of fleet
- Research projects and results- in regards to production of low GHG emissions



Eva Nanaki
New Technologies & Innovation Analyst, **HELLENIQ ENERGY**



Networking Break

16:00 (30 mins)

16:30

Exploring the Impact of Autonomous Taxis on People with Disabilities Over the past two decades, transportation has become more accessible, but people with disabilities still face significant barriers to accessing these services

- Impact of autonomous taxis on people with disabilities, an area that has seen limited improvement
- How do traditional taxi experiences shape expectations of autonomous taxis in terms of disability accessibility?
- To what extent does the autonomy of self-driving taxis contribute to a perceived increase in travel freedom?



Shravani Sharma
PhD Researcher, **WMG, University of Warwick**



17:00

In the realm of transportation, autonomous vehicles (AVs) signify a revolutionary leap, promising unparalleled safety, efficiency, and accessibility.

- Documented AV collisions underscore the need for rigorous testing, before widespread deployment
- Virtual simulations provide a crucial solution, creating a secure environment for extensive AV testing, emphasizing a 400% increase in computational power when processing the entire environment
- Additionally, the addition of just 1 lane raises the burden by 15%. Analysis of road geometry reveals vertical curves escalating processing demands by up to 7%, and horizontal curves necessitate an average 14% additional processing power.
- These findings, supported by rigorous statistical testing, enrich AV developers' understanding of environmental impact. Government agencies and organizations can utilize this research to assess existing infrastructure readiness for AV deployment, ensuring a seamless integration into our evolving transportation landscape.



Mohamed Abohassan
Research Assistant, **University of Alberta**



End of Day 2

Closing Remarks