Smart Transportation
Conference & Exhibition 2024

Sept 30, 2024 | 100% Virtual

Leveraging The Technology Innovation and Digital Revolutions!

Our previous sponsors:

Cohesive

TACHYON

Day 1 | Monday, Sept 30, 2024
(Agenda as of 14 May, 2024 and subject to change)

● Sponsored Sessions ● Booked Sessions ● Available Sessions

07:30

Registration & Refreshment Networking

08:30

Durham County Council Electric Vehicle Infrastructure

- The strategic, operational and local challenges that Local Authorities face as we transition to electric vehicles and why Local Authorities are so important to the transition
- A new innovative model that can help Local Authorities and the private sector finance and deliver more EV infrastructure
- Beyond ZEV charging for passenger cars, how can Local Authorities do more to reduce transport carbon emissions?

Peter Ollivere
Policy Team Leader, **Durham County Council**

09:00

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

Available Session

10:00 | **GOLD SPONSOR**

Reserved for Department for Transport

Breakfast & Networking Break ———————— 10:30 (30 mins)

11:00 | **PLATINUM SPONSOR**

Where Digital Amplifies Sustainability

- Synergy between Innovative Software Solutions and Sustainable Goals
- how their customers envisage the so-called twin transition
- Reducing the carbon footprint due to more efficient operations but also by using green software

Willem Jan Groenewoud
CEO, **Ab Ovo Group**

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 Budhdeo
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

Reserved for Karsan Automotive

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

TfW MND Verification of Regional Transport Models

- The models support transport schemes and assessments in Wales
- The transport models originated from mobile network data (MND) collected in 2019
- They represent travel patterns and demand within Wales

Rhian Watt
Head of Transport Modelling, **Transport of wales**

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

Matt Greener
Zero Emission Institute Director, **Arriva Group**

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

The roadmap to the vision of "zero stress ticketing"

- A short walk-trough on achieving 95% customer satisfaction index through innovation, tech savvy and hairy goals
- For example projects like cEMV implementation, omnichannel PSP and digital TVMs in Oslo, Norway

Leo Bull
IT and technology director (CIO/CTO), **Flytoget AS**

Heidi L.Hansen
Distribution and Innovation Manager, **Flytoget AS**

17:00

Intelligent Traffic Control System (ITCS) to Mitigate Congestion Impact in Megacities

- Enhanced performance of the coordinated traffic light network
- Application of Computer Vision and AI technology to improve intersection performance
- Real-time adaptive and predictive traffic control systems, Digital Twin, and Big Data of traffic parameters

Puguh Prakoso
Senior Technical Expert, **Dinas Perhubungan Provinsi DKI Jakarta**

17:30

The future of Public Transport in Germany

- Opportunities and hurdles in the implementation of the nationwide local transport ticket
- The spread of digital on-demand services as a supplement to traditional scheduled services

Jan Strehmann
Head of Mobility and Economy, **German Association of Towns and Municipalities**

Drink Reception ———————— 17:30

End of Day 1 ———————— Closing Remarks

Day 2 | Tuesday, Oct 01, 2024

(Agenda as of 14 May, 2024 and subject to change)

● Sponsored Sessions   ● Booked Sessions   ● Available Sessions

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08:30

Reserved for Ascendal Group

ASCENDAL GROUP

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**

WSP

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**

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 reliability.
- 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**

CALSTART

Breakfast & Networking Break · 10:30 (30 mins)

11:00

Why placemaking is a crucial ingredient in achieving smart transportation

- It can be intoxicating to pursue the incremental benefits of emerging smart transportation technologies and practices. However, when those incremental changes are added together it can impact our local places.
- A place-based lens can be useful for assessing whether smart transportation initiatives are working together to achieve better or worsening outcomes for people, communities, businesses and places.
- This presentation will use the example of a local shopping street to present best and worst case scenarios for the impact of smart transportation. The aim is to showcase to practitioners the importance of embracing placemaking as a design imperative for creating truly smart transportation projects.

Graham Pointer
Director of Policy, **WSP**

WSP

11:30

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)**

Intelligent Transport Systems UK — Empowering Transport Technology

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12:00

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.

Rachael Murphy
Strategy Manager, **SEStran**

GO SEStran — South East of Scotland Transport Partnership

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**

OTHO

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 maintains 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.

Greg McClymont
Assistant Director, National Infrastructure Commission, **National Infrastructure Commission**

NATIONAL INFRASTRUCTURE COMMISSION

15:00

Transitioning to a Zero Emission Fleet

- The operational, commercial and life cycle cost challenges and opportunities that need to be considered when transitioning to either battery electric or hydrogen fuel cell buses
- creative approaches, partnerships, long-term planning, funding, infrastructure and energy supply plays a vital role in delivering successful projects.

Anand Stephen
Digital Delivery Leader, **Gannett Fleming**

GANNETT FLEMING

15:30

Learning resilience lessons from organisational multi-agency exercising

- Importance of exercising within business
- How to design a multi-agency exercise
- How to build the scenario
- How to run the event
- How to maximise learning from the exercise
- How to weave exercising into the organisational learning journey

Aaron Gracey
Managing Director, **Network Rail**

NetworkRail

Networking Break · 16:00 (30 mins)

16:30

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 trailed 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**

WORLDLINE

End of Day 2 · Closing Remarks