Intelligent Transport Systems UK
Empowering Transport Technology

review

Annual Review 2025

its-uk.org

Spokespeople from the Labour, Conservative and Liberal Democrat parties on their priorities for transport

Jo White of National Highways: How their innovation programme is delivering real change

Stewart Fox-Mills of the rail industry's Fares, Ticketing and Retail Programme: Ticketing's role in integrated transport

How to build an integrated transport network

Delivering a seamless, safe and sustainable transport system

EXPERIENCE REMOS

REMOTELY OPERATED SIGNALS

SRL's unique remotely operated signals (REMOS) are equipped with advanced radar sensors & CCTV cameras that continuously monitor traffic flow and stream live footage of the site to our dedicated, secure control centre. Our trained operators can then make frequent interventions to optimise traffic flow.

SRL is inviting forward-thinking professionals to take part in REMOS Product Familiarisation.

See the REMOS concept for yourself

Register your interest today and be part of the transformation!

Call **0808 2818 775** or email **hire@srl.co.uk**

In this issue

Intelligent Transport Systems UK
Empowering Transport Technology

Intelligent Transport Systems UK
Suite 107, Tower Bridge Business Centre, 46-48 East Smithfield, London E1W 1AW
Tel: +44 (0) 20 7709 3003 • Email: contact@its-uk.org • Website: www.its-uk.org • Twitter:@its_UK_org

Enabling connected, sustainable travel that integrates new technologies with existing infrastructure

Learn more on www.arcadis.com

Connect with us

Arcadis. Improving quality of life.

FROM THE PRESIDENT

Integrated Transport? Yes, Minister

Steve Norris
President, ITS UK and former Transport Minister

This year ITS UK is concentrating on the Government's ambition to build an integrated transport network that will deliver safe, sustainable transport for all.

It is a worthy endeavour, although some of us older transport professionals remember the 1982 episode of *Yes, Minister* in which the government decides it needs a national integrated transport strategy but comes to recognise that the idea is much more difficult to implement than first seems likely.

It is a brilliant piece of television comedy but is credited with first introducing the words "integrated transport" into the national lexicon. The episode is entitled "The Bed of Nails" and I remember laughing out loud at it, blithely unaware that a few years later I would be a Minister in the transport department with exactly that responsibility.

So what has changed? Well, firstly *Yes, Minister* was a brilliant comedy co-written by a former senior civil servant and not intended to be taken literally, although there were times when I remember thinking that far from being comedy it was in fact far too close to the truth. In reality, however, the key difference is quite simply technology.

The much missed former Secretary of State for Transport Alistair Darling issued the 2004 Future of Transport White Paper in which he made clear that, from then on, the dominant theme in every mode from roads, through rail, shipping and aviation - to which we would now add active travel and cycling - would be dominated by technology, and he was right. That is indeed why the current Government's laudable aim to seek ways in which we can improve all users' experience of transport, whatever modes they may choose, is made more accessible, more sustainable and more relevant to their current life choices.

There are so many ways in which over the last twenty years our transport systems have been transformed. Transit access is now routinely possible using enabled credit cards, watches and smart phones. The remotely controlled vehicle is appearing on roads - albeit very much at the trial stage - but the connected autonomous vehicle will be an increasingly familiar sight opening up enormous potential for cheaper and more accessible demand related transport.

As fuel duty receipts fall the emergence of pay per mile travel as a means of sustaining transport investment becomes inevitable. From a plaything the drone now becomes an emerging transport prospect. Safety continues to be a huge issue, particularly on our roads. And everywhere we look, it is ITS UK members who are powering this integrated and sustainable transport revolution across the globe, not just here in UK.

We are the engine of a sustainable integrated transport and we can all be proud of the vital role we do and will play.

Steve Norris
President, ITS UK

We are the engine of a sustainable integrated transport and we can all be proud of the vital role we do and will play.

FROM THE CHAIR

Transport Integration: A route to efficiency

Stuart Scott
Chair, ITS UK

It is my pleasure to welcome you to our ITS UK 2025 Annual Review.

Since the last Review we have had a change in several governments across the world. Whilst there are some that might challenge the need, I remain convinced that one of our key targets must be to manage our transport networks with increasing efficiency.

This is not just about improving efficiency to save time, we all have a real environmental and social obligation to reduce our impact on the planet. The real value is in driving the efficiency of the transport network as a whole, and I firmly believe that the best way of achieving this is the continued integration of transport modes.

There is a real and pressing need for transport integration and ITS UK is in the ideal position to advise and deliver on that need. I am determined that the significance and value of this role is recognised not just in our sector, but by acting as a trusted advisor to the external community.

ITS UK has a unique position in the UK, with a membership that spans the entire spectrum of the transport sector. I firmly believe that we, as the ITS UK membership, have the world-leading technical and technology capability – covering consultancy and design, supply through to operation and maintenance - and that excellence is core to our success.

Maximising the efficiency of our transport network can no longer be about doing the best that we can in our silos. The real value is in integration and ITS UK is in the ideal position to advise and deliver on that need.

This work is global in scope. That's why ITS UK is also recognised internationally as the lead ITS organisation to represent UK industry. We attended a significant number of international conferences, congresses and events last year, have surveyed members to understand their export needs and aspirations and launched new initiatives to support international engagement, including an overseas mission to Latvia, Estonia and Finland later this year and UK Pavilion at Intertraffic next year. Our international scope is also reflected in our significant role in supporting the 2027 ITS World Congress in Birmingham.

As an organisation we continue to adapt and grow. This review reflects both of these ambitions, and with the Government's Integrated National Transport Strategy, this year's Review theme **(How do we build an integrated transport network?)** could not be more pertinent.

I would like to take this opportunity to pass on my thanks once again to our Board Directors and Forum teams for their continued volunteer support to the organisation, for providing the engine room that keeps our organisation rolling forward, and of course to all of you, our members – for without your continued support, energy and commitment there is no ITS UK.

Finally, I must thank Max Sugarman and the ITS UK team for driving and supporting the changes to the organisation, whilst supporting a very full programme of events.

Stuart Scott
Chair, ITS UK

REDEFINE POTENTIAL
REDEFINE POTENTIAL
REDEFINE POTENTIAL
REDEFINE POTENTIAL

Through pioneering use of digital technologies, we're driving clients across road, rail, aviation, maritime, local authority and logistics sectors to more reliable mobility solutions.

Delivering resilient mobility for communities across the globe. Safely, cleanly, reliably.

Find out how we can help you.

wsp.com

FROM THE CHIEF EXECUTIVE

With integrated transport on the agenda, there is a major opportunity for the intelligent transport sector

Max Sugarman
Chief Executive,
ITS UK

"We sometimes don't think enough about the door-to-door experience of people making journeys, even frustrating things like going to a new place and not having the right parking app on your phone and having to download a new app. What is the experience of turning up at a railway station only to find that you don't know where the bus stops are or that the buses have stopped running? How we integrate better between modes is critical."

Those were the words of Transport Secretary Heidi Alexander MP as she appeared before the Transport Select Committee for the first time in April. Referring to the Integrated National Transport Strategy (INTS), the Secretary of State highlighted a major issue with the UK's transport system – that much of it works in siloes.

WHAT DOES INTEGRATED TRANSPORT MEAN?

The INTS was actually not launched by Alexander, but by her predecessor, in November 2024. The then-Transport Secretary Louise Haigh stood up in Leeds and announced, for the first time since 1998 – some 27 years ago – that integration was back on the agenda. Haigh was clear – this would be a strategy that will look across all modes and consider how our transport network works as a whole.

So, what do we know about the Government's intentions for integrated transport? First, that the new Strategy will give power to local leaders to make decisions about the transport in their towns, cities and regions. "Solutions in Swindon will not be the right solutions in Derby" added the Transport Secretary at the Committee session.

We know it will need to work across modes at a time of major change for the transport network, including the creation of Great British Railways and nationalisation of rail services, a new Bus Bill that gives more powers to local authorities, the upcoming Road Investment Strategy (RIS3) settlement, and major changes to devolution across England. And, of course, a Spending Review that will see Government funds spread more thinly across non-ringfenced

ITS UK working with Government at the Road to D-TRO Conference in February

departments, of which transport is one.

AN OPPORTUNITY FOR THE ITS SECTOR

What is clear is that the INTS provides a major opportunity for the transport technology sector. AI and data can now provide greater intelligence on the state of the network. The use of smart traffic management and enforcement is reducing congestion. Connected vehicles are providing greater information to road users, and automated vehicles are set to provide the opportunity to radically improve road safety. Smart ticketing is allowing more seamless travel across modes. Mobility as a Service platforms and journey planning apps are better informing the travelling public. The use of demand responsive transport is being used to reach rural areas with limited transport options.

These are just a few of the applications that the ITS industry is delivering every day, and which will be essential in supporting the goal of a more integrated network.

In this year's Annual Review, you will see many examples of how technology is reshaping the transport network. This year's theme – **How to build an integrated transport network: Delivering a seamless, safe and sustainable transport system** – seeks to explore not only how the sector can support the Government's vision for integrated transport, but also what benefits we can deliver through a more joined up system. In the following pages, you'll read how, through technology, we can support a safer network, help decarbonise the industry and provide a better customer experience for all transport users. Thank you to all our contributors for their insightful articles.

OUR ROLE SUPPORTING THE SECTOR

Last year was a busy one for ITS UK, as we continue to support the sector.

- **Advocacy:** Ahead of the General Election in June, we published our Future of Transport Manifesto, setting out ten key recommendations for the incoming Government, covering everything from data and AI to connected and automated mobility, highway technology to smart ticketing. Since then, we've been working hard to ensure those recommendations are heard, meeting Ministers, MPs and Peers to represent the views of you, our members.

  In March, we were invited to the Transport Select Committee to give oral evidence as part of their bus inquiry and the fact that all three main political parties have a representative writing in this Review shows that the intelligent transport sector is being heard by senior decision makers. And, we have been supporting members to directly feed into the INTS, arranging workshops with DfT to gather member views and developing a response to the Call for Ideas earlier this year.

- **Events:** Last year we delivered some 50 events, including our largest yet President's Dinner and Awards, Parliamentary Reception and Annual Conference. Our Forum Programme is going from strength to strength, with meetings that offer updates, provide the latest industry intelligence and act as a catalyst for action in the sector.

  This year, we're also taking a renewed effort on the exports-front. Many members tell us that exporting more is a key priority, so for the first time next year, we will organise a UK Pavilion to Intertraffic. We were at the ITS European Congress in Seville and will be arranging a trade mission to Latvia, Estonia and Finland later this year.

- **Insights:** The team continue to work hard to ensure members stay ahead of the curve on issues likely to impact the industry. In our Members Area, we continue to provide our weekly tender monitoring, and this year have added political monitoring too. This allows members to see when topics like 'traffic management' or 'road user charging' are mentioned in the UK Parliament, the Welsh Senedd, Scottish Parliament or Northern Irish Assembly. Our weekly newsletter – sent straight to your inbox – remains the best way to stay in the loop on the intelligent transport industry.

- **Celebrate:** ITS UK is always keen to celebrate the amazing work of our members. Our Member News Service, where Members can have announcements published, is a great way to promote your work and our Awards – now in their 19th year – are one of the most coveted in the sector. Our Women in ITS and Early Careers Groups continue to support diversity and the next generation, particularly through the Early Careers Essay Competition, which allows young people a route to boosting their profile (and win a brilliant cash prize!).

We were honoured and humbled this year to win the Industry Association Transformation Award at the Trade Association Forum Awards, recognition amongst our fellow industry bodies of the improvements we've implemented to ensure ITS UK membership delivers for you. And we were so pleased that 83% of members last year selected the top two categories for highest satisfaction ('very happy' or 'quite happy') in our annual membership survey.

Of course, there is much more to do – and these are turbulent times – but we feel confident in supporting you, our members, in delivering a seamless, safe and sustainable transport network for all.

Max Sugarman
Chief Executive, ITS UK

We were honoured and humbled this year to win the Industry Association Transformation Award at the Trade Association Forum Awards, recognition amongst our fellow industry bodies of the improvements we've implemented to ensure ITS UK membership delivers for you.

FROM ITS UK TEAM

ITS UK as a 'one stop shop' for all you need in the sector

Priscilla Ross
Membership Executive,
ITS UK

One of the main questions we get from members is: how can ITS UK support me and my organisation to thrive in the industry? The ITS and intelligent mobility sector can certainly be a daunting and complex space, one which is ever changing with new technologies, policies and commercial fluctuations.

At ITS UK, we've aimed to create an organisation that has a laser-like focus on creating a growing and successful ITS sector in the UK, thereby supporting our members to grow and succeed too. We were so happy to win the Industry Association Transformation Award this year for our efforts, with the judges highlighting our renewed focus on member services.

So how can you take advantage of all we have to offer? Here are my top tips.

FIRST, GET ONTO THE MEMBERS AREA

Our Members Area is the digital hub of for all our 180+ members, giving members access to exclusive briefings and news updates. Last year, we added a Tenders and Competitions page to the Members Area, giving you weekly updates on the latest commercial opportunities, and this year, we added political and policy monitoring too. All our events are listed on the Members Area, as are past presentations, your members certificate and a member directory. Plus, you can sign up to receive our Monday Mail there too.

THEN, COME ALONG TO AN EVENT

Whilst members can benefit hugely from our virtual offerings, there really is nothing better than coming to an event to meet with potential clients, policy makers and fellow ITS professionals. Last year we delivered some 50 events, covering a huge array of topics across the transport technology industry. Our Forum Programme remains at the heart of what we do, covering issues around the use of data, user behaviour, freight, active travel and more!

SHARE YOUR INSIGHTS

Of course, ITS UK is not just about sending information, it's also about offering you the chance to feed in your thoughts and expertise too. Whether through speaking at a Forum event, writing a blog post for our website, sending us your latest press releases or working with us on industry thought leadership, there are limitless ways to get stuck in and help shape the future of the sector. We are often looking for Members to support our work through Forum Officer or Board Director roles too.

AND CELEBRATE YOUR WORK

ITS UK also provide opportunities to celebrate the work of the industry, such as through our President's Dinner and Awards. Now in its 19th year, this

event has become a major day in the industry's calendar. Awards are available in a range of categories, across people, projects and organisations, and entries are open to all members. It's the perfect way to celebrate your work!

AND FINALLY, WORK WITH US

We are keen to ensure members are making the most from their membership, so are always happy to set up a call to discuss how we can best support you. We have bespoke sponsorship packages available for members looking to boost their profile even further in the sector too, with opportunities for organisations of all sizes.

Contact Priscilla
Priscilla.ross@its-uk.org

Supporting the sector at home and abroad

Rukshan Soysa
Operations Manager,
ITS UK

ITS UK's 2025 programme of work covers activities across the UK and overseas. Whatever your interest or focus, we have something to support you.

FORUM PROGRAMME

We have an exciting line up of Forum events this year. We've already seen our Data Forum explore how we make our data AI-ready in Manchester, a fascinating session with our User Behaviour Forum in Coventry, and a depot tour as part of our Freight Forum, to explore how we deliver lower carbon fuels in the haulage industry. And, in London, our Early Careers Group held a reception for young people in the sector, as well as announcing the winners of the ITS UK Early Careers Essay Competition.

Attending our Forums is open to all members, providing an opportunity to stay up to speed on the latest developments and innovations across the sector. Each meeting of our Forum programme provides networking opportunities, the opportunity to hear from key clients and decision makers and a place for members to come together to set out the direction of travel for the sector.

Coming up, we have lots in the pipeline – with events from our Women in ITS, Road User Charging, Enforcement, Public Transport and much more – it's well worth keeping an eye on our website (www.its-uk.org/events) to see what's coming up.

Over 2025, we'll also be conducting a review of our Forums. They are a powerful tool for knowledge sharing and networking, and are a key part of the ITS UK membership offer. So, to ensure they are relevant and accessible, this year will see us kick-start a review to ensure we are continually improving our offering. Forum Officers and members will be fully consulted on this – so do watch out for further information as the review gets underway.

LOOKING ABROAD

In 2025, we are also expanding our exports and international work, on the back of our Exports Study, a report we published in November 2023 that explored the key overseas markets for UK companies.

ITS UK has already participated in the ITS European Congress in Seville this year and have recently announced that we will be hosting a UK Pavilion at Intertraffic 2026, with a number of members already signed up to attend and exhibit with us. In November of this year, we are planning to arrange a delegation for members to visit Finland, Latvia and Estonia on a trade mission to learn more about their ITS industries and further our collaboration with these countries. And, of course we are making excellent progress with our plans for the ITS World Congress in Birmingham in 2027, supporting the West Midlands Combined Authority at what will be a pivotal moment in the industry in the UK.

There is a huge amount to get involved in, whether in the UK or overseas. See you at an ITS UK event soon!

Contact Rukshan
Rukshan.soysa@its-uk.org

From DRT to HOTA: How ITS UK is making its voice heard

Eduardo Pitts
Public Affairs & PR Executive,
ITS UK

Over recent years, one of ITS UK's key objectives has been to strengthen our advocacy for the sector.

Alongside raising our presence in the media and developing our relationships with Government and Parliamentarians, at its heart, our goal is to ensure the ITS sector is having its voice heard by those making key decisions on the future of our transport network.

A MANIFESTO FOR THE FUTURE OF TRANSPORT

It's essential that we have a clear, evidenced policy document that outlines recommendations for how we believe the intelligent transport sector can be supported by Government.

That is why, when the General Election was announced in May 2024, we moved swiftly to produce our "Manifesto for the Future of Transport". We quickly convened our membership to feed into the document, setting out ten clear recommendations for the incoming Government.

From smart ticketing to connected and automated mobility, road user charging to demand responsive transport and MaaS – the document sets out ten clear and achievable actions the Government could take to ensure technology continues to support our transport network.

THE MANIFESTO IN ACTION

With our Manifesto published, we've been working hard to ensure it gets in front of policy makers from all political parties. And meet policy makers we have. Since publishing our Manifesto, we've met with MPs, Metro Mayors, Peers and Councillors. Following the General Election, we also took our Manifesto to Future of Roads Minister Lilian Greenwood, setting out the case for the sector directly to Government.

Through this work, we've seen interest in ITS-related issues continue to grow. We worked with DfT to hold an industry workshop to inform the upcoming Integrated National Transport Strategy. Through meetings with members of the Transport Select Committee, and our submission to the inquiry into buses, we were invited to give oral evidence to the Committee on DRT. Our latest report 'Noise Cameras: Where Next?' garnered national press coverage. Plus, we're continuing to work with the Home Office to represent enforcement technology manufacturers in reviewing the type approval process.

WHAT'S NEXT – AND HOW TO GET INVOLVED

Looking ahead, major changes to our transport system continue. A Bus Bill will provide greater opportunities for transport authorities to manage their bus services. The creation of Great British Railways will offer a central hub for innovation and technology in rail. The English Devolution Bill will see new funding and powers for local authorities, who will no doubt want to revitalise and improve their transport networks. And the Digital Information and Smart Data Bill could see smart data schemes set out in transport, in a similar vein to what has been achieved in open banking.

As legislation evolves, we'll continue to represent the sector and engage policymakers, whether through events and meetings, policy reports and consultations or through media engagement.

We encourage members to get involved in shaping our advocacy by attending our Advocacy and Public Affairs Group, and events like our Parliamentary Reception and Party Conference events (more on this soon). Do join us and get involved.

Contact Eduardo
eduardo.pitts@its-uk.org

Integrated transport will need to be inclusive too

Rachael Quinn
Industry & Strategy Advisor,
ITS UK

Our industry strives to embed a unifying principle into our transport systems: human-centric integration. This principal reimagines mobility not as a network of isolated technologies, but as an interconnected, inclusive system designed around our human needs for accessibility, safety, sustainability, and equity.

This principal is evident in the evolution of public transport, which sits at the heart of the UK's ITS strategy. Autonomous buses, such as the ambitious Project CAVForth in Scotland and the StreetCAV shuttles in Milton Keynes, are being introduced with a core focus on accessibility and reliability. These vehicles are fitted with features for passengers with disabilities, real-time service updates, and adaptive routing. And, furthermore, they're not just about automation—they're about ensuring that everyone, regardless of age, income or ability, has options within the transport network.

Similarly, the rise of AI-driven traffic management systems affords many opportunities for increased inclusivity. Emerging technologies are not just managing flow—they're actively prioritising pedestrians, cyclists, and vulnerable road users. In cities trialling AI-powered traffic lights, green phases are extended for slower walkers, and alerts are sent to connected vehicles when children are near crossings.

Supporting these efforts is the growth of integrated transport management platforms, which serve as digital backbones for cities. These systems merge data from buses, trains, e-scooters, road sensors, and even user devices into a unified control environment. This allows transport operators to predict demand, optimise capacity, and reduce disruption across modes—ensuring seamless end-to-end journeys.

The theme running through all these exciting developments is clear: a human-centric, integrated approach that sees ITS as the enabler of more equitable, responsive, and sustainable transport.

ITS UK'S ROLE

It is clear from my time at ITS UK how seriously the industry takes inclusivity and a user-focused approach to transport. My first event since taking up the role of Industry & Strategy Advisor was an excellent User Behaviour Forum, where Chief Scientific Advisor Sarah Sharples passionately set out the case for human factors to take a central role in transport decision making. It's great to see the work of ITS UK's other groups, from its Inclusive Mobility Forum to its Early Careers and Women in ITS, putting inclusion at their heart.

What more can be done? First, I believe that ITS, as an industry, needs to be better at making its case to decision makers. It's been great to see the increased advocacy and public affairs work of the ITS UK team, but now we need to support that work with clear evidence. That's why ITS UK is working with Capital Economics to develop evidenced and robust figures on the size of the sector, including economic growth, jobs and tax revenue. If we are to effectively make the case for the industry, we need clear figures on the size of the prize.

Second, I'm excited to be leading a review of ITS UK's Forum Programme over 2025. Our Forums do fantastic work and are the backbone of ITS UK's activity, supported by a small group of hard-working Chairs and Vice Chairs. Yet, we have not had a holistic review of the Forums in recent history, and - if we are to be as inclusive as we wish our transport system to be - it is right that we ensure our forums are open, relevant and effective. I'm really looking forward to working with the Forum Officers and members to see how we can make them as impactful as possible.

Inclusivity is a noble aim that we must challenge ourselves to uphold - whether through our economic research or Forum review, ITS UK is supporting a sector that is central to an inclusive transport network.

Contact Rachael
Rachael.quinn@its-uk.org

Clearview Intelligence

CONNEX VISION

Multi-modal traffic classification - identify how specific classes use an environment

Object-by-object detection - granular data for better decision-making

Event detection - identifies critical events, enabling safety responses

GDPR compliance - ensures privacy protection while monitoring

Real-time video streaming - enabling faster decision making

making places safer greener smarter

www.clearview-intelligence.com

Our highways and transport networks are reaching maturity, with reduced building of new physical capacity, and increased focus on digitally optimising the performance of existing networks - including safety, resilience, sustainability, and user experience.

Think Forward 2040: Digital transformation of transport network management and control centres

Ryan Hood
Digital Highways Leader,
Arup

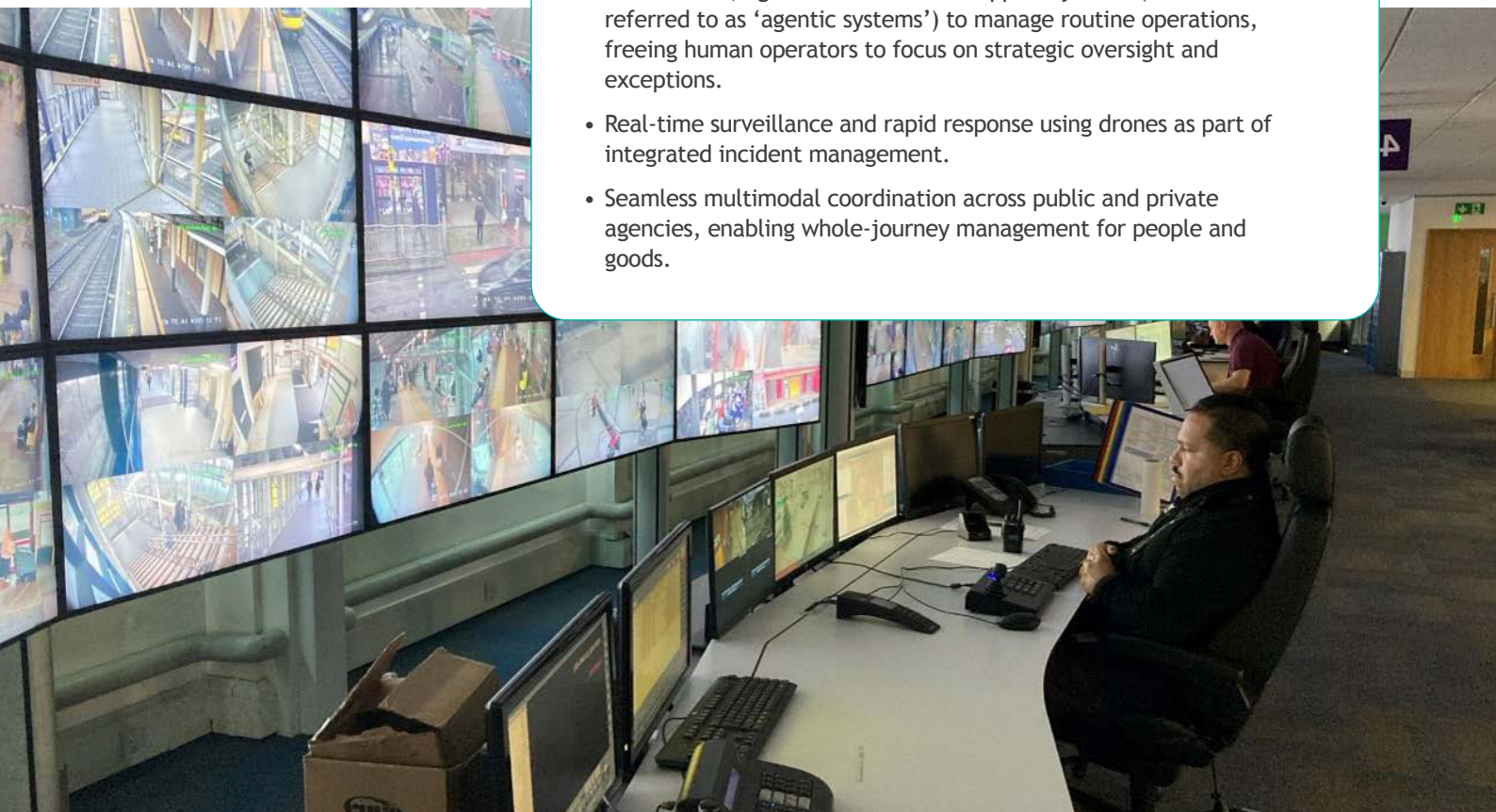
Our highways and transport networks are reaching maturity, with reduced building of new physical capacity, and increased focus on digitally optimising the performance of existing networks – including safety, resilience, sustainability, and user experience.

To support this, we anticipate profound transformation in the management of transport networks over the coming years, driven by digital technologies and a shift from reactive operational management to proactive, data-driven, integrated mobility 'orchestration'. By orchestration, we mean the ability to coordinate actions across multiple agencies, transport modes and digital systems in real time – bringing together predictive insights, live data and automation to optimise outcomes for both the network and users.

This evolution will redefine the role and operation of control centres, underpinned by a significant increase in the availability of real-time multi-modal data, data sharing infrastructure, digital twins, artificial intelligence (AI), agentic systems, spatial computing and the integration of technologies like drones. In turn, this will enable new benchmarks in situational awareness, network resilience, integration and operational efficiency.

Key trends shaping integrated network management and control centres of the future:

- A system-wide 'instantaneous view of the network' enabled by the 'data exhaust' from way-finders, connected vehicles, dashcams, ADAS and self-driving technologies.
- Enhanced situational awareness and performance monitoring - not just within a single network, but across operators, geographic boundaries, transport modes, and critical adjacent sectors like energy, telecoms and environment.
- AI-driven forecasting and simulation to anticipate disruptions and optimise responses – ranging from short-term network predictions (1 hour, 12 hours, 1 week) to pre-emptive interventions aligned to desired outcomes (e.g. improving bus performance, congestion relief). Akin to a 'Traffic Psychic', this capability will enable transport operators to act before issues materialise.
- Autonomous, agent-based decision support systems (sometimes referred to as 'agentic systems') to manage routine operations, freeing human operators to focus on strategic oversight and exceptions.
- Real-time surveillance and rapid response using drones as part of integrated incident management.
- Seamless multimodal coordination across public and private agencies, enabling whole-journey management for people and goods.



Footage from the drones is relayed to the Regional Transport Coordination Centre in Birmingham (BBC)

EMERGING TRENDS AND TECHNOLOGIES

Today's fragmented management approach – single agency, single-mode, predominantly reactive – will be replaced by proactive, multi-modal, multi-agency collaboration, guided by a shared common operational view of the network and predictive analytics.

The Virginia Department of Transportation is a pioneer in this field developing a Regional Multi-Modal Mobility Programme (RM3P) that employs an AI-driven decision support systems (AI DSS) – a solution being delivered by Arup and our partners – to forecast multi-modal traffic conditions up to 12 hrs in advance, enabling pre-emptive identification of network issues on key approaches to Washington DC. It enables multimodal responses including dynamic incentivisation to encourage users to retime their journeys or switch mode.

Similar predictive capabilities are critical to unlocking the full benefits of Transport for London's (TfL) Surface Intelligent Transport System (SITS), which will utilise real-time data and simulation to optimise responses to anomalies in bus performance and traffic flows.

Federated digital twins, interconnected digital representations of physical transport systems, provide economic benefits projected at approximately £1.85Bn in England over 10 years (2023 prices excluding London) across use cases such as network capacity management and integrated incident management, as evidenced through Arup's work with the UK's Department for Transport. These twins will facilitate unprecedented real-time situational awareness, predictive capabilities, and integrated responses, fundamentally shifting transport management from reactive to proactive.

AN INSTANTANEOUS VIEW OF THE NETWORK

The coverage, frequency and type of data available from the 'internet of mobile things' will continue to drastically increase, complimenting then replacing point sensor data, supporting improved wide area situational awareness, change detection and hazard identification, and providing training data for forecasting and simulation.

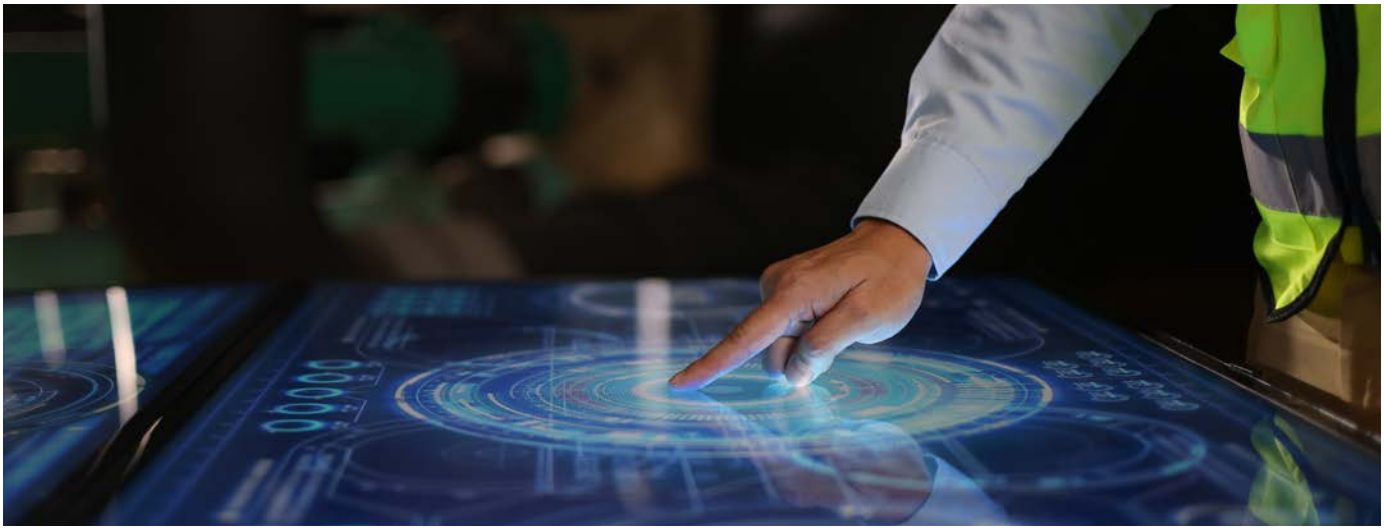
Insights from vehicle imagery and LIDAR data (now on high-end production vehicles such as Volvo EX90 and Polestar 3) will support an instantaneous visual view of the network, as well as non-visual. New York City provides a glimpse to this future where a visual view of the network is available approximately every 5 mins, with processed imagery used for change detection including the presence and removal of obstructions such as roadworks.

HUMAN + AI: AGENTIC SYSTEMS AND AUTONOMOUS DECISION-MAKING

As transport networks grow increasingly complex, human decision-making capabilities will be progressively augmented by autonomous, agentic systems – advanced software agents capable of making contextually informed, independent decisions. These systems will harness real-time data, predictive analytics, and sophisticated modelling to autonomously manage routine tasks, enabling human operators to shift their focus towards oversight, strategic intervention, and complex problem-solving.

"We are actively exploring how agentic systems can transform our workflows and enhance the efficiency and responsiveness of network management at TfL. We have already implemented foundational capabilities, such as knowledge graphs and digital twins, which position us to harness these advanced technologies, ultimately delivering smoother, safer, and more reliable journeys for all Londoners."

Andy Emmonds, Chief Transport Analyst, Surface Network Operations TfL



The National Air Traffic Service (NATS) Project Bluebird provides an insight into developments in this area with an aim to pioneer the world's first AI system capable of autonomously managing sections of airspace. Supported by a digital twin that leverages over 25 million flight data records the initiative includes training 'AI agents' capable of performing aspects of the air traffic controller role, with high degree of operational trustworthiness and traceability, enabling human controllers to increase their productivity.

INTEGRATING DRONES INTO NETWORK MANAGEMENT

The integration of drone technology within transport management centres is an exciting and rapidly developing frontier, building on global developments in drones. Transport for West Midlands (TfWM) has pioneered the operational use of drones, notably for rapid incident verification and management. By providing real-time aerial footage of incidents, drones will fill gaps in visual awareness, enhancing response times and operational decisions, particularly in complex urban environments or remote locations where ground access may be delayed.

The integration of drone technology within transport management centres is an exciting and rapidly developing frontier, building on global developments in drones.

Future scenarios envisage drones performing routine surveillance of transport infrastructure, monitoring asset conditions, and rapidly assessing incident scenes to inform automated response plans within the control room environment. Their integration into control room operations exemplifies the broader move towards a seamlessly interconnected digital and physical operational ecosystem.

REAL-WORLD APPLICATIONS AND BENEFITS

Real-world applications underscore these technological advancements' transformative potential. Portsmouth City Council's approach to maritime-road integration provides real-time anomaly detection of ferry delays to support proactive management of vehicle flows approaching the city. Integrated Corridor Management deployments in the US, such as San Diego and Minneapolis, demonstrate significant returns, delivering benefit-cost ratios between 10:1 and 20:1, significantly enhancing network reliability, reducing congestion and improving air quality.

CHALLENGES AND STRATEGIC RECOMMENDATIONS

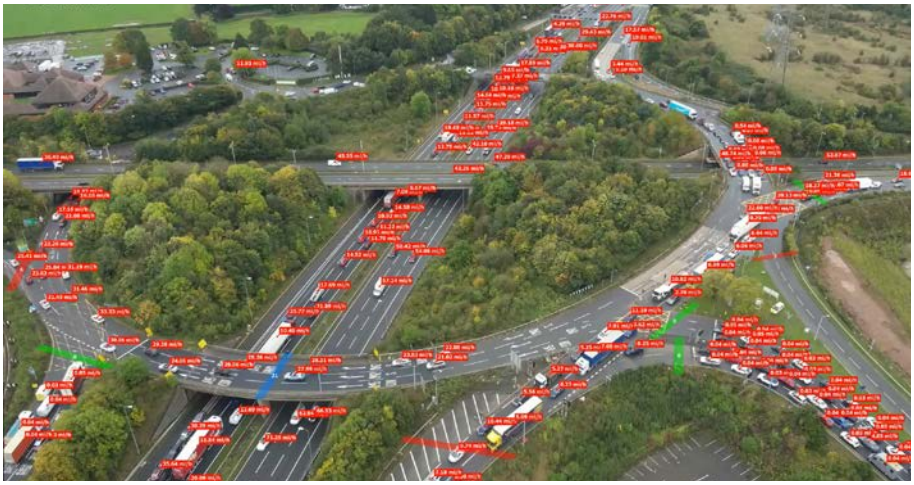
Despite these advances, significant challenges remain. Key among these is improving data quality, ensuring data interoperability, addressing cybersecurity threats, managing data privacy, developing multi-stakeholder frameworks that support collaborative decision making and funding sustained technological innovation. To overcome these barriers, transport authorities must prioritise robust governance frameworks, invest strategically in workforce capabilities – particularly in data governance, data science and AI literacy – and foster strong public-private data-sharing partnerships.

CONCLUSION: A PROACTIVE, INTEGRATED FUTURE

By 2040, how we approach transport network management and operational control centres will be fundamentally reimagined, driven by a dramatic increase in non-authority real-time data, digital twin technology, autonomous decision-making systems, and drone integration. This digital transformation promises not just improved operational efficiencies but also significant societal benefits in sustainability, resilience, and user experience.

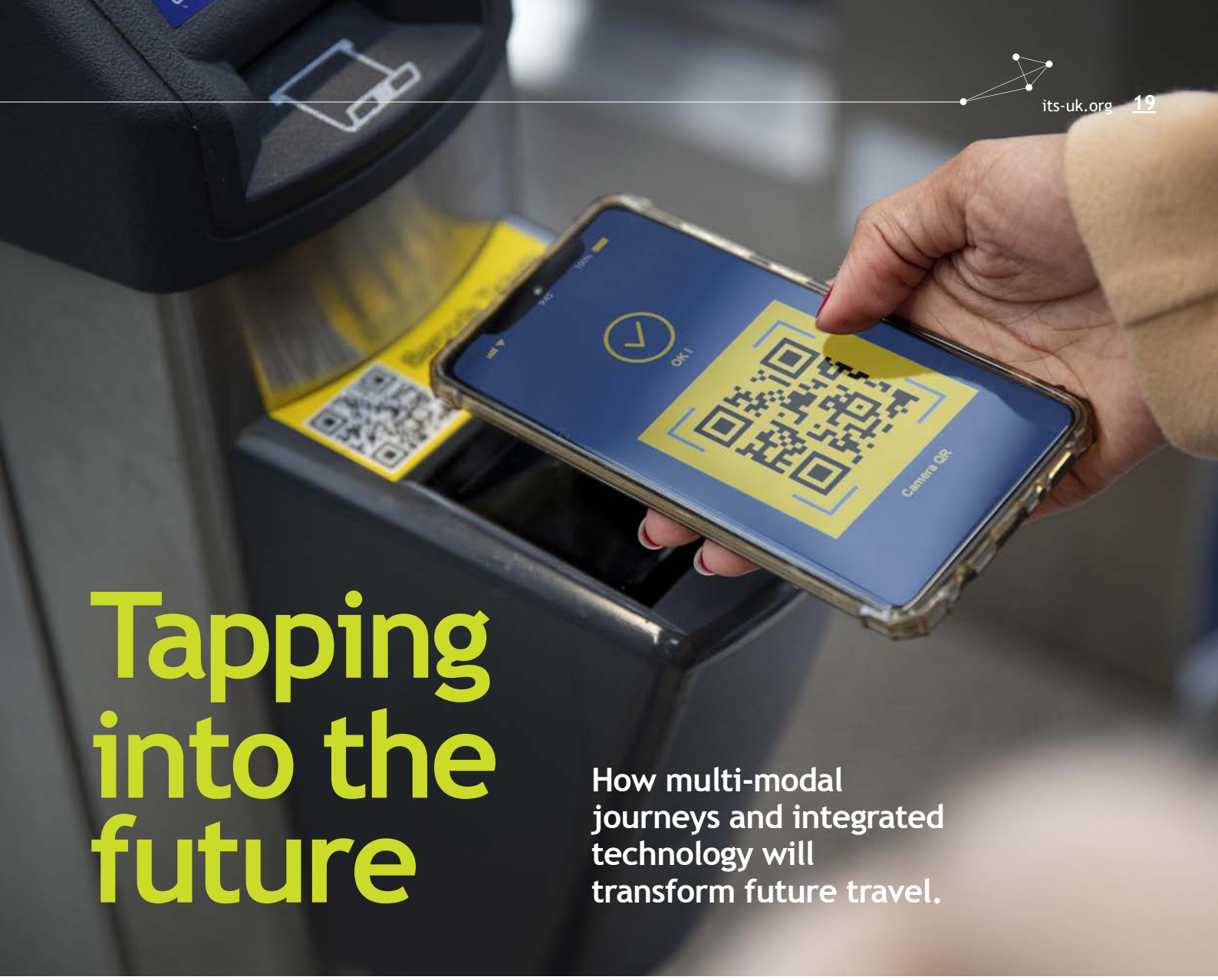
To realise this future, the ITS community must collaborate intensively, embracing innovation and proactively addressing emerging challenges. Leadership from organisations such as the Department for Transport and forward leaning multimodal integrated transport authorities like Transport for London, Transport for West Midlands and Transport for Greater Manchester will be vital. These organisations are already laying the groundwork, from federated digital twins to predictive operations, and are well-placed to work together to help convene the partnerships, governance models, and capabilities needed at scale.

Only through a shared commitment to digital transformation – across public and private sectors – can we deliver integrated, reliable, and sustainable mobility solutions for generations to come.



TfWM is using drones together with vision-based AI to monitor junction performance and safety. Credit: Transport for West Midlands.

Contact Ryan
ryan.hood@arup.com



Tapping into the future

How multi-modal journeys and integrated technology will transform future travel.

David Wear
Senior Vice President and Managing Director,
Cubic Transportation Systems

THE RISE OF CONTACTLESS AND MOBILE PAYMENTS

The adoption of contactless payments across the UK has surged in recent years. Today, millions of passengers tap their cards, phones, or smartwatches to travel seamlessly across buses, trains, and trams. According to industry reports, over 70% of pay-as-you-go (PAYG) journeys in London are now made using contactless cards or mobile devices.

Beyond the capital, cities like Manchester, Birmingham and Glasgow are embracing similar technologies, offering more flexible payment options. These systems eliminate the need for paper tickets, reduce operating costs and provide greater convenience for passengers.

CLOSED LOOP VS OPEN LOOP TICKETING

Understanding the difference between closed loop and open loop ticketing is essential in appreciating the breadth of innovation in the sector. Closed loop systems require passengers to take action prior to commencing their journey e.g. loading funds to their cards. Open loop systems allow passengers to use their existing bank cards or mobile wallets at the point of travel, thereby enabling seamless travel.

Integrated ticketing systems are gaining traction across the UK's transport network. Project Oval, being rolled out across the southeast, includes commuter rail stations outside of London, being added to its contactless, PAYG network. Other mayoral authorities are considering how to create seamless integrated ticketing, including Greater Manchester's Bee network (open loop) and the West Midlands Swift Go and Swift PAYG (closed loop). Both support tap-and-go technology, on bus and tram modes. Future developments will

also include local and regional rail.

THE ROLE OF ACCOUNT-BASED TICKETING (ABT)

Account-Based Ticketing (ABT) represents a further evolution of seamless travel. Associated with both closed and open loop systems, ABT systems provide a link between journey records and funding sources through a passenger's account. Closed loop cards may use this function to enable auto-top up, whereas open loop card users may benefit from weekly fare aggregation and weekly settlement. In addition, journey planning, concessions, accessibility, inclusion, and micro-mobility modes can also be more readily enabled with the use of an ABT system.

LOOKING AHEAD: WHAT'S NEXT FOR INTEGRATED TICKETING TECHNOLOGY?

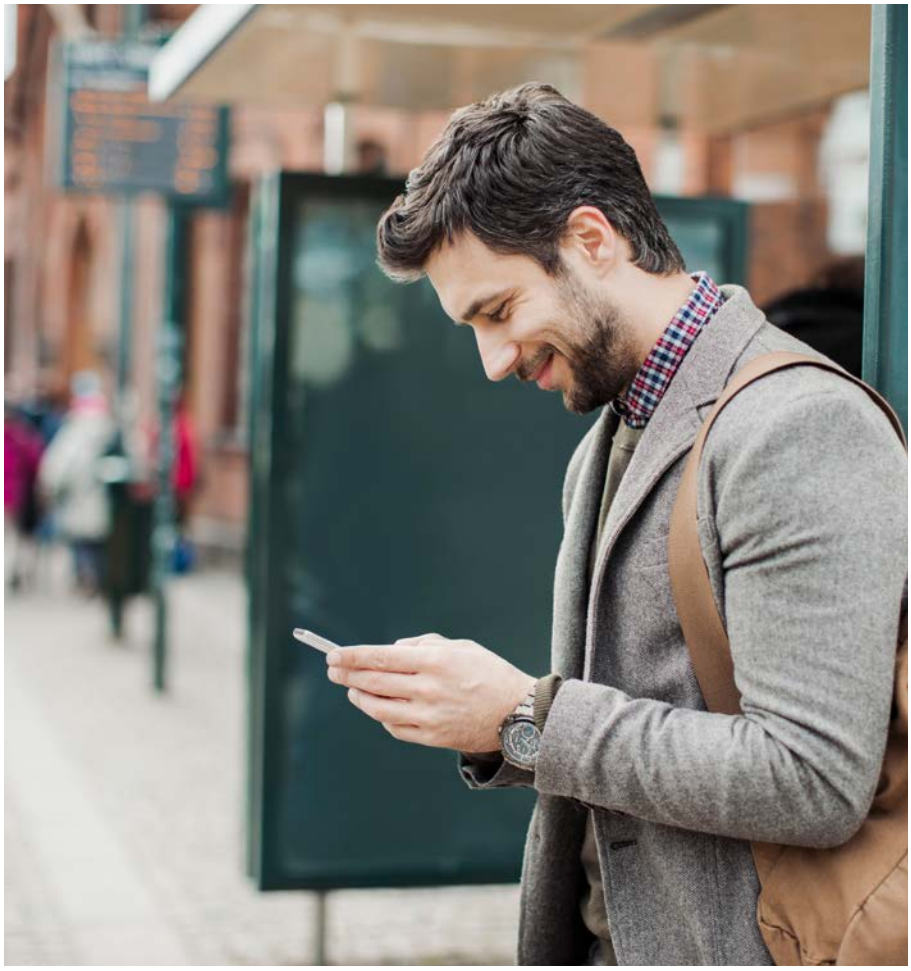
Future journeys in the UK will be improved by ongoing advancements in technology. The introduction of Artificial Intelligence (AI) and real-time data analytics will play a greater role in optimising service delivery and managing passenger flow.

Enhanced mobile apps will provide personalised journey planning, real-time updates, and seamless payment options. Mobile phones will allow travellers to plan, book, and pay for multimodal journeys through a single digital platform. By integrating micro, local, regional, and national transport services, we will experience truly connected journeys.

TRANSFORMING TRAVEL ACROSS THE WORLD

Cubic Transportation Systems has transformed open payments from theoretical potential to operational reality. Through pioneering implementations across major metropolitan systems, we've established a new standard in fare collection technology.

Our journey spans from London to deployments in Vancouver, New York, Sydney, Chicago, and Puerto Rico. These diverse implementations have yielded crucial insights into passenger behaviour and revenue protection, driving the development of our next-generation fare gate technology.



Technology is at the core of the UK's ambition to build a seamless, safe, and sustainable transport network. From contactless payments to account-based ticketing, these innovations are not only improving the passenger experience but also driving efficiencies across the industry.

The culmination of this experience is FEnX – an innovative fare gate that combines open payment convenience with advanced fare evasion prevention. Utilising cutting-edge sensor technology and machine learning algorithms, FEnX delivers real-time detection capabilities whilst maintaining the seamless payment experience modern travellers demand.

EMBRACING THE FUTURE

Technology is at the core of the UK's ambition to build a seamless, safe, and sustainable transport network. From contactless payments to account-based ticketing, these innovations are not only improving the passenger experience but also driving efficiencies across the industry.

For transport professionals and stakeholders, embracing these advancements is key to delivering a future-ready rail network. As we "tap" into the potential of integrated technology, the vision of seamless travel becomes an increasingly tangible reality.

Transport under scrutiny: The select committee's agenda thus far, and what to expect

Ruth Cadbury MP, Transport Select Committee Chair

The UK's transport sector is vast, vibrant and vital to all our lives. From airport redevelopments to nationalising the rail sector, there's plenty more that we look forward to getting stuck into.

After the Buses Bill rolled into Parliament in September, our new members were unanimous on the imperative to investigate both the ailing health of local bus services and the DfT's proposals, but to also highlight their value in connecting people, wherever they live, with their friends, family, shops, jobs and services.

Fast forward to spring and and we've held the last evidence session of our 'buses connecting communities' inquiry, where we quizzed Minister Simon Lightwood on the evidence and ideas given to us by influential voices from the sector.

Many have welcomed elements of the Bill, such as expanding franchising powers and strengthening some aspects of the Enhanced Partnerships operating model introduced by the last Government. But funding is the elephant in the room. Witnesses have been keen to point out that administrative changes can only take

us so far, and that, ultimately, better and more reliable services will cost money.

We owe gratitude to ITS UK's Max Sugarman, who kindly took part in one of our evidence sessions. The CEO talked about the potential for demand responsive transport (DRT) as a solution to fill gaps in parts of the country, particularly rural areas, where mainstream services have been reduced or stripped altogether. He also pointed out that DRT services are disadvantaged compared with larger bus operators as their smaller vehicles aren't always exempt from charging VAT on fares – something ministers may be wise to look into.

Meanwhile, an overlooked facet of the road transport ecosystem which the Committee has been digging into is street works, and their reputation for being so chaotic and disruptive. In this inquiry we have been questioning utility companies, industry representatives and local government leaders on ways to prevent scenarios such as works overrunning, multiple consecutive digs of the same streets by different firms, and lasting damage to road surfaces.

We owe gratitude to ITS UK's Max Sugarman, who kindly took part in one of our evidence sessions. The CEO talked about the potential for demand responsive transport (DRT) as a solution to fill gaps in parts of the country, particularly rural areas, where mainstream services have been reduced or stripped altogether.

Witnesses have shown interest in England having an equivalent to the Scottish Road Works Commissioner, tasked with promoting good practice, as well as inspecting and carrying out enforcement where standards have deteriorated. Other potential solutions shared with us have been the use of Lane Rental Schemes which entail a financial incentive for firms to complete works on time, or for the guarantee period on reinstatement works to road surfaces to be increased from two-three years to five-six. As we bring our oral evidence hearings to a close for street works, it is Minister Lilian Greenwood who will be invited to front up for the Government.

In March, we issued our greatest challenge yet to the DfT, and transport providers everywhere, as we published our first report of the Parliament: 'Access denied: rights versus reality in disabled people's access to transport'. This inquiry was the culmination of many thoughtful and highly emotive evidence submissions that shone a light on the daily frustrations and exclusion that people with access needs often – or for some, always – experience when simply trying to get around.

Chief among our report's recommendations were for the Government to review the messy patchwork of legislation regarding accessibility on different modes of transport. We called for the establishment of a unified, user-friendly complaints service across all modes, as well as for the Government to consider a single enforcement body to operate proactively to assert disabled people's needs. We also urged the Government to produce a long-term, fully costed inclusive transport strategy within 12 months.

We expect to hear from ministers by the end of the spring. One of the privileges of a select committee is that the Government is obliged to respond, setting out whether it accepts or disagrees with every one of our recommendations. Campaigners have called this one of the biggest opportunities in years to make real change in this space – the Government must rise to the challenge.

The third new inquiry announced by this Committee was 'Rail investment pipelines: ending boom and bust'. Investment pipelines could include detailed, multi-year plans of the orders for rolling stock and contracts to carry out infrastructure enhancements, such as electrifying lines or making stations more accessible.

We will examine how clear, up-to-date pipelines could put the rail supply and manufacturing sector – along with thousands of jobs in its supply chains – on a safer, more sustainable footing and give certainty about improvements to the railway. A 2024 survey of rail suppliers showed nearly all seeing a hiatus in work, being unsure of future investment streams, as well as widespread concerns of skills shortages and attrition in the workforce.

The Committee will investigate how these plans should be developed, why they haven't been used in the past, and whether they could promote confidence among investors.

The UK's transport sector is vast, vibrant and vital to all our lives. From airport redevelopments to nationalising the rail sector, there's plenty more that we look forward to getting stuck into.


PULSE
Digitising Transport for the Future
PULSE is your personal control tower in the dynamic world of business data. It's your compass, breaking down barriers and providing a clear, unified view of plans, actions, and outcomes, empowering you to adapt and thrive in any circumstance.
Read more about PULSE at netcompany.com
Netcompany

Transforming rail travel: Fares, ticketing & retail that's integrated, efficient and passenger-friendly

The Fares, Ticketing & Retail (FTR) Programme is dedicated to transforming the rail industry's approach to a more integrated, efficient, and passenger-centric system.

Stewart Fox-Mills
FTR Programme Director

The need for reform in this area has been acknowledged for over a decade, driven by the complexities and inefficiencies in the current system. As highlighted in 'Getting Britain Moving' and the public consultation for the upcoming Railways Bill, the FTR Programme is a top priority to deliver tangible improvements for passengers, while meeting financial sustainability priorities.

The FTR Programme will:

- **Improve the passenger experience** by simplifying passenger's retail and ticketing experience.
- **Support revenue growth** by fostering digital innovation and enhancing passenger satisfaction and trust in the system.
- **Improve financial sustainability** by reducing retailing costs, improving efficiency, and addressing genuine fare evasion.

The programme is the single reference point for the entire rail industry, encompassing the Department for Transport (DfT), Department for Transport Operator (DFTO), Rail Delivery Group (RDG), Train Operating Companies (TOCs), and Shadow GBR (sGBR). The programme has adopted a 'One Team, One Plan' approach, which emphasises intensive collaboration across the industry to deliver benefits at pace. The programme employs a model of empowerment, delivering locally and iteratively, while working to a whole-industry plan ahead of the establishment of Great British Railways.

Trials of Digital App-Based PAYG Software in the North & Midlands

Later this year, we will launch trials of digital app based Pay as You Go in the North & Midlands. This initiative will test contactless ticketing via GPS-based mobile apps for the first time in England. Participants in the trial will benefit from simpler, more accessible, and flexible fares, as well as a guarantee of the best value ticket on the day. The trials will provide valuable insights into the feasibility and scalability of digital PAYG solutions.

- In practice there are **5 strategic themes** that the FTR Programme is leading. These include:
- **Reforming Fares:** Reduce the complexity of fares to improve passenger satisfaction and trust, while developing the industry's revenue management capability to drive revenue growth and utilise unused capacity. A recent example includes the Simpler Fares trial on the East Coast to test Semi-Flexible (70min Flex) fares.
- **Revenue Protection & Countering Fraud:** Making it easy for passengers to buy and travel with the right ticket and ensuring that genuine fare evasion is addressed.
- **Establishing a Retail Market that Serves the Public Good:** Providing passengers choice in where they buy their ticket & supporting revenue growth. An example of this is the establishment of GBR Online Retail. It will retail online by bringing together individual train operators' ticket websites, working alongside a thriving private sector retail market.
- **Delivering Pay as You Go (PAYG) Ticketing to Passengers:** Deliver easy, integrated PAYG (tap-in, tap-out) travel with simpler fares in urban area. Recent examples include delivering PAYG train travel to more than 90 rail stations in the West Midlands and Greater Manchester as part of two pilots and delivering PAYG train travel to over 100 stations across the South-East.
- **Modernising Physical Retail at Stations:** Provide a service orientated offer with more accessible staff & support for those who need it.

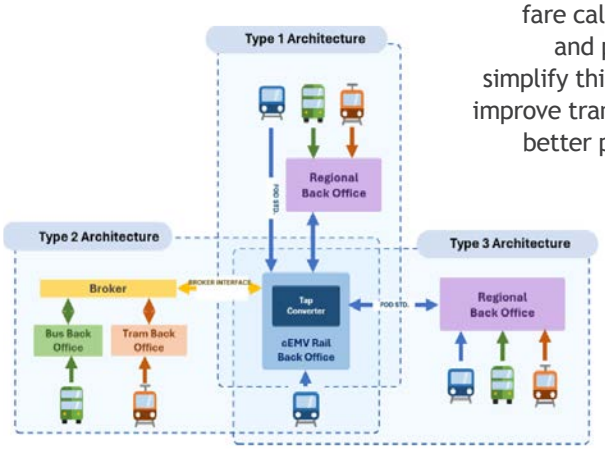
The FTR Programme presents a significant opportunity for both new and established suppliers. From running major back-end management systems to developing innovative digital solutions and ecosystems, there is a wealth of potential for suppliers to contribute to and benefit from the programme. We encourage suppliers to engage with us, offer support, and collaborate on future projects.

The FTR Programme is a vital part of transforming the rail industry, driving tangible progress and fostering a collaborative environment. Together, we can transform the rail industry's approach to fares, ticketing, and retail, ensuring a more integrated, efficient, and passenger-friendly system.

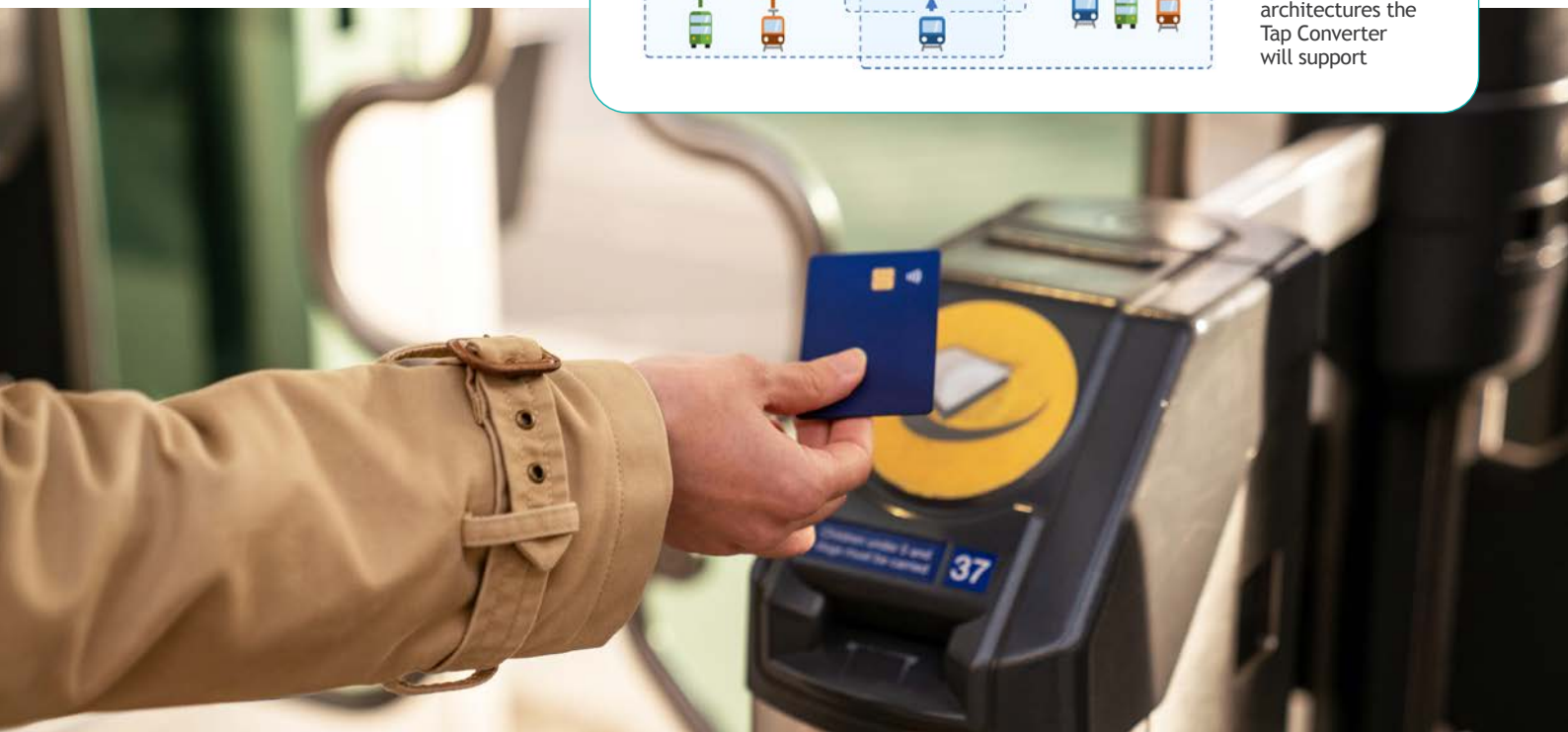
Contact the FTR Collaboration Hub:
ftrcollaborationhub@gbrtt.co.uk

Development of the Nationwide PAYG Tap Converter

In February 2025, we started work with Tracsis to develop the nationwide PAYG Tap Converter system. It can be applied across the country and on different types of transport. This will provide the technical foundations for uniform PAYG fare calculations, capping, and payments. This will simplify things for passengers, improve transparency, creating better passenger trust and convenience.



Example of architectures the Tap Converter will support



RIA
RAILWAY INDUSTRY ASSOCIATION

Championing a dynamic rail supply sector

Established in 1875 The Railway Industry Association (RIA) represents the rail supply sector with over 360 member companies of all sizes.

RIA's priorities are economic growth, job creation and delivery of a thriving rail sector - all while promoting sustainable mass transit solutions across the UK. Our team engages with key stakeholders - including government officials, major rail clients and myriad transport bodies across Britain's nations and regions.

RIA commits to fostering positive industry change and supporting the needs of our members on a not for profit basis.

Explore our work

www.riagb.org.uk | Railway Industry Association | @railindustry

Delivering a seamless, safe, and sustainable transport system

The UK Government's Integrated National Transport Strategy is intended to guide the design, construction, and operation of England's transport network over the next 10 years. With integration and collaboration at its heart, the Strategy will seek to drive change across the industry.

Gavin Trimnell
Sales Director,
Yunex Traffic

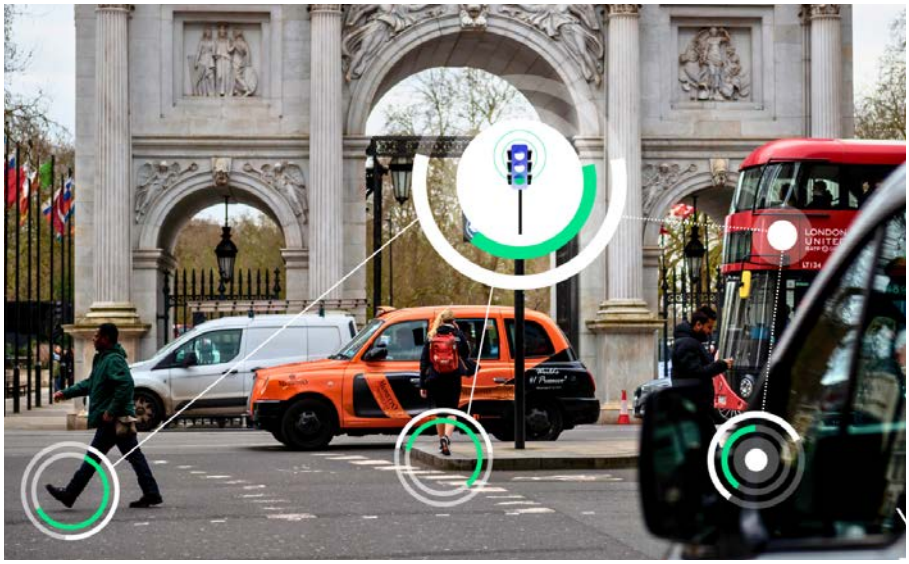
The development of the Strategy reflects the need for a step change in both thinking and technology, with a desire to move away from traditional technologies which still need roads to be excavated, and extensive and expensive traffic management infrastructure to be installed. These approaches also cause traffic delays and disruption, need vast amounts of copper cable to be manufactured and buried, and energy to be consumed.

A new, seamless and sustainable transport system will require a fully integrated, multimodal network, an informed and connected ecosystem in which public transport, cycling, walking, and private vehicles operate harmoniously together to provide reliable, affordable, and convenient journeys from the first to the last mile.

As the developers of innovative technologies, ITS solutions providers will therefore play a crucial role in enabling this change. Our solutions will drive the integration of previously disparate systems, unlock the potential of data to deliver insights, predict, evaluate and recommend road space management strategies, and deliver policy driven transport outcomes.

Appropriate, well-maintained and optimally functioning detection, together with new innovative traffic data solutions are the foundation stones of an efficient transport network, continuously monitoring traffic in real-time and feeding adaptive, strategic and predictive traffic management control systems with accurate network status information and indicators of congestion and disruption.

As a world leader in intelligent ITS



solutions, Yunex Traffic is already helping to facilitate this seamless integration, drawing on the company's unrivalled end-to-end portfolio of technologies - from smart detection systems through to real time, second-by-second adaptive control and strategic based decision making tools. These cutting-edge technologies are being delivered through an ever-evolving range of innovative and sustainable product solutions, including Yutraffic Actis, the latest generation traffic signal system, and the Plus+ traffic control solution, both of these products deliver significant performance, value and sustainability benefits.

Change is already underway. For example the dominance of traditional loop technology may (finally) be coming to an end, with users now trending away from this method, which can be costly to deploy and maintain as well as limited in its data capture capabilities, and looking to far more intelligent multi lane radar (MLR) and video systems which, by using video analytics and artificial intelligence, can capture, use and share much more detailed data.

Both MLR and video detection provide high levels of accuracy without the need for extensive ducting or disruptive maintenance. Supporting multiple detection zones ('virtual loops') and a range of intersection layouts, MLR is a particularly powerful and cost-effective tool for MOVA and VA signal control across multiple lanes. The system operates on a high frequency waveband and uses advanced algorithms to support both VA and MOVA applications where the identification of gaps between vehicles is critical.

MLR and video systems also enable all road users, from pedestrians and cyclists to HGVs and buses, to be accurately detected, to provide real time, and predictive data to inform intelligent decision making.

At the core of this Urban Traffic Control decision making are solutions like Yunex Traffic's FUSION and Stratos and our Aimsun integrated Digital Twin solution. FUSION, the first new traffic signal adaptive control solution to be developed in over thirty years builds on proven techniques to interpret these data feeds and insights in real time, adjusting signal phasing to optimise the passage of people through the transport network based on network conditions and required policy driven outcomes. And supporting this real time adaptation, the use of Digital Twins to rapidly analyse alternative strategies and run multiple simultaneous predictions will help find the optimal traffic management strategy to implement at any given time.

MLR and video systems also enable all road users, from pedestrians and cyclists to HGVs and buses, to be accurately detected, to provide real time, and predictive data to inform intelligent decision making.

By integrating systems, and keeping them operating at optimum efficiency, clear sustainability and health benefits will also be delivered. Reduced congestions and lower emissions, and growth in active travel and public transport combine both to improve air quality and to lower a network's carbon footprint.

Designed to work seamlessly together, Yunex Traffic's comprehensive portfolio of solutions delivers a range of unique benefits when part of integrated traffic management and control networks, the whole invariably being greater than the sum of their parts. And whilst it is important that products from different suppliers can be integrated, it is likely that integrating products from a single supplier will bring added benefits, including common and more intuitive user interfaces, reduced staff training, a single source of support, smoother updates, and additional functionality.

As innovators and drivers of change, Yunex Traffic solutions are proven in applications worldwide, with its engineers constantly pushing the boundaries of technology and sustainability, setting new standards in each solution area – from detection and management and control to on-street equipment. As such, this is an incredibly exciting time to be at the heart of the ITS sector as we develop and deliver intelligent solutions that meet the Government's Strategy.

But the Government's aspirations must be underpinned with appropriate funding for solutions to be procured, optimised, operated by skilled, well-trained resources, and maintained. Together, as industry stakeholders, we all have a role to play in collectively engaging with the DfT and other industry bodies and to collaborate where necessary to deliver the changes that are required.

Birmingham
ITS World Congress
25-29 October 2027

Connect ideas. Transform transport.

Experience the future at ITS World Congress 2027 in Birmingham

The next ITS World Congress in the EMEA region

Network with more than 15,000 global experts, decision makers and industry leaders

Immerse yourself in the cutting edge of mobility, with 500+ exhibits, 200+ sessions, and 100+ demonstrations

Explore the West Midlands, the region where innovation meets action

tfwm.org.uk/ITS2027

#ITSBirmingham2027

Organised by

ERTICO ITS EUROPE

Co-organised by

ITS AMERICA

ASIA-PACIFIC ITS

Hosted by

West Midlands Combined Authority

Transport for West Midlands

Supported by

Funded by UK Government

VISIT BRITAIN

Intelligent Transport Systems UK
Empowering Transport Technology

How do we make an integrated transport network, a safe one?

What makes an integrated transport network a safe one? We need leadership, a focus on personal safety and consideration of data and technology.

Jamie Hassall
Executive Director, Parliamentary Advisory Council for Transport Safety

I support the Governments strategic priorities for integrated transport and welcome the Integrated National Transport Strategy (INTS). Encouraging the shift from private car use and increasing the use of public transport and active modes will be an important step to making transport safe for all users. At a regional level Transport for West Midlands is a good example where they have a vision of a 45-minute region and 15-minute neighbourhoods and understand that an integrated transport system is the backbone of a safe and sustainable transport network.

PACTS has a vision of a transport system free from death and life changing injury. To achieve this, and for the INTS to be successful, requires supporting policies that reduce danger across modes.

We know from our own research on transport risk that:

- People in Great Britain are much more likely to be killed in a car, or by a car, than any other mode.
- Pedestrians and cyclists are rarely involved in collisions that result in the death of other road users.
- Buses and coaches are the safest mode for road users and the second least dangerous mode for other road users per passenger miles travelled.

Additionally, according to the Rail Safety and Standards Board, a train journey is over 20 times safer than travelling the same distance by car. The evidence shows that sustainable modes of transport tend to be safer to use than private vehicles. Creating an integrated transport network that is convenient and easy to use is key to encouraging people to shift their travel choices and as a result improve the safety of the network.

Considering safety at each stage of a journey is fundamental to creating a more joined up transport network, Ensuring the INTS is successful requires that all users feel safe when travelling, another element of the vision of PACTS. The INTS should be the guiding principle in creating modal shift whilst also ensuring the safety of all users, particularly those that are most vulnerable.

PERSONAL SAFETY

In order to encourage more sustainable journey decisions and to ensure the transport network is better joined up, also requires looking at the root causes of why people feel unsafe whilst travelling and taking targeted action to fix these issues. Infrastructure that makes integration simpler can only go so far if users do not feel personally safe. Targeted action to improve feelings of personal safety could span anywhere from tackling anti-social behaviour on public transport to improved lighting at train stations.

USING DATA AND TECHNOLOGY TO DEVELOP EFFECTIVE SOLUTIONS

Data on people's needs and wants must also inform the development of appropriate technology. For example, research from PACTS' partners shows that when it comes to the development of Mobility as a Service (MaaS) systems, accurate reliable information is a core requirement, regardless of where a person lives. Additionally, in-app safety and comfort information could help women and older travellers.

Technology, much like data, can be used as a means by which to shift travel patterns, but it must be done so in a safe and equitable manner.

Technological improvements can be divided into three sub-categories, these are:

- Safe System interventions.
- echnology to improve integration of transport modes.
- Effectively seizing the opportunities of technology.

The Safe System – Implementing the Safe System is key to improving safety across modes of transport that use roads. The Safe System aims to ensure the safety of all road users and is composed of five core elements that support the systemic action required to improve road safety outcomes. The five elements where data and technology related to each could improve the transport network are: Safe roads and roadsides, Safe speeds, Safe vehicles, Safe road users, and Post collision response. We recently discussed this at our Spring Conference in March, which is now available on the PACTS website.

TECHNOLOGY TO IMPROVE THE INTEGRATION OF TRANSPORT MODES

Numerous technological solutions exist that are intended to make integrated journeys easier. MaaS for example, allows for well-coordinated connections between different modes of transport to reduce risks.

Another area is smart ticketing, largely seen as a convenience feature, but one that indirectly impacts safety by incentivising modal shift from road to rail (be that light rail such as trams, or the heavy rail network of trains), a mode with much lower risk to passengers.

Effectively seizing the opportunities of technology – There are also areas where technology has the potential to shift current patterns of mobility and impact on what an integrated transport network might look like, such as autonomous vehicles or the increased use of micromobility. Whilst these examples offer significant opportunities, it is paramount that robust legislative frameworks are created for them that ensure the safety of all road users.

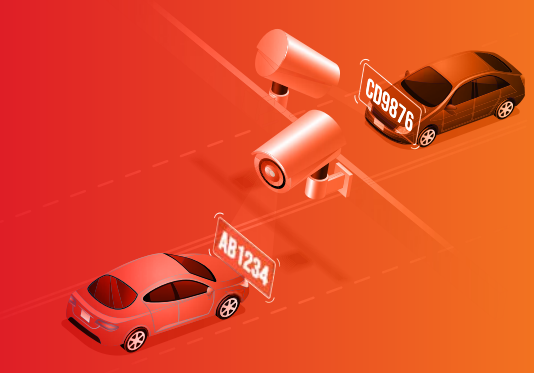
We need good leadership, the right technology, data and a focus on the individual.

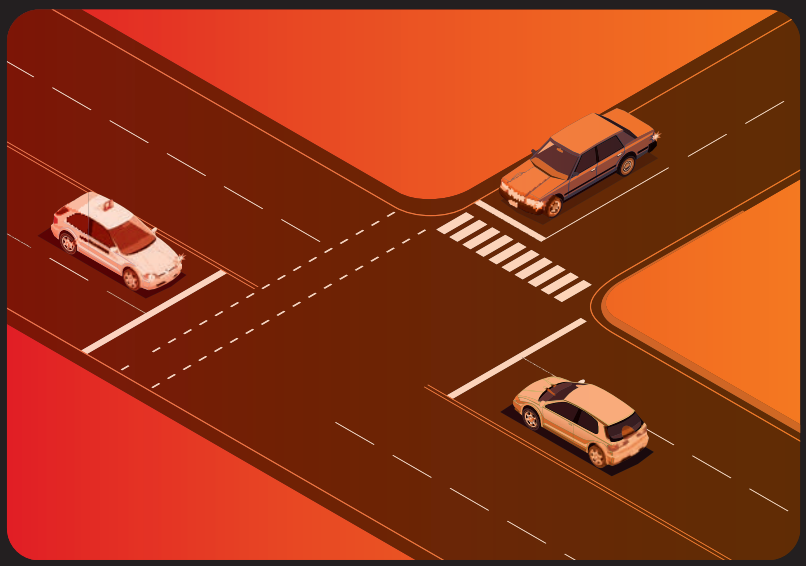
westcotec®

PROUD TO BE AT THE FOREFRONT OF ROAD SAFETY INNOVATION.

Westcotec is proud to have been at the forefront of road safety innovation since 2001. Based in Norfolk, we are an **employee-owned** firm specialising in the design, manufacture and installation of vehicle-activated **signs and traffic safety systems.** Our comprehensive range of solutions includes adaptive speed limit signs, intelligent warning signs and collision avoidance systems.

The positive impact we have had on road safety is clear as evidenced by our proven record of reducing collisions and improving driver compliance. Our innovative approach uses cutting-edge technology to address traffic-related safety issues.





With a commitment to customer service and a focus on delivering cost-effective, life-saving solutions, we are keen to collaborate with partners across the UK and beyond. So if you are ready to enhance road safety in your area, let's start a conversation on how our intelligent traffic safety solutions really can make a difference.

The Conservative Party's priorities for transport

There is something deeply British about the open road. It is there in the early morning drive to work, headlights cutting through the mist. In the quiet dignity of a pensioner taking the bus to town.

In the crowded platform on a Friday evening, as people head home, or away, or simply onward. From the hum of motorways to the rattle of railways, movement has always carried the rhythm of our national story.

But today, that rhythm is faltering. Across Britain, from towns to cities to villages hemmed in by neglect, the simple act of getting from A to B is becoming harder, slower, and more expensive. Under the relatively recently elected Labour government, transport is being reshaped not around freedom or function, but around centralised control, ideological suspicion of enterprise, and short-term decisions that punish aspiration.

Nowhere is this clearer than on our roads. For millions, the family

Gareth Bacon MP, Shadow Secretary of State for Transport

car represents time, choice, independence. Yet under Labour councils, drivers are being squeezed dry. Cameras, once used to save lives, have become state-sponsored cash machines. Driving, once a symbol of freedom, is fast becoming a privilege for the affluent, and a burden for everyone else. This is economic punishment dressed up in green. And it's working people who are paying the price, as it shrinks the map of people's lives. Labour's war on the motorist is corrosive because when you ration movement, you ration life itself.

The Conservative Party takes a different view. Conservatives believe in movement as a moral good. We believe in the power of connection, choice, and the open road. That's why we will back Britain's drivers. Not just in Westminster, but in Wigan, Wrexham, and Worthing. We will protect the freedom to move and the dignity it provides. Because motorists matter. Every mile driven to earn, to care, to live - it all matters.

And this principle must stretch far beyond the wheel. Our railways should be a driver of national growth, the scaffold of a dynamic economy. But Labour's answer in Great British Railways, looks to be a centralised monster in the making. A return to the worst habits of bureaucracy, where union leaders wield more influence than passengers, and performance becomes a secondary consideration. Nationalisation may sound romantic but under this Labour government, it will likely mean less accountability, slower improvements, and higher costs for passengers.

In government, we attempted a different path. We invested over £100 billion to modernise the network. We delivered Crossrail, upgraded main lines, electrified over 1,200 miles of track, upgraded major lines, and capped fare increases when inflation rose. We launched Network North to reinvest where it's needed most. Because a railway that listens and competes is a railway that works. It is true that not all parts of the railway delivered the service levels that passengers had a right to demand and improvement is indeed necessary. Whether the creation of a wholly nationalised Great British Railways will deliver that improvement remains to be seen.

Too often dismissed as relics, buses remain vital to the national fabric. As we develop our policy renewal programme, we will look at modernising routes and at keeping services running where they are needed most, not just where they poll well. A bus route shouldn't disappear because it's politically inconvenient, nor should public transport be weaponised to reward favoured areas. We will put passengers first, as we understand buses are a key lifeline for many communities.

And what of our skies? In Labour's Britain, airports are framed as guilty pleasures. Hikes to Air Passenger Duty – which is already the highest in the world - punish not the luxury traveller, but the family hoping to visit relatives abroad, the entrepreneurs flying out to expand their business, the student returning home from university. By increasing the cost of flying, the government are raising barriers, narrowing Britain's reach at the very moment we must extend it. A confident, connected Britain must be an outward-facing Britain. A Britain that draws investment, tourism, and talent.

Across every mode of transport, the pattern is unmistakable. Labour's instincts are to tax, control, and centralise. As we begin the process of building our transport policy prospectus, the Conservative Party will seek to build, trust, and empower.

This is not just a question of how we travel. It is a question of what kind of country we want to be. A country that moves freely is a country that thinks freely, works freely, dreams freely. And when we protect the freedom to move, we do more than fix systems. We restore agency, ambition, and pride.

What Moves YOU

Ever wonder who connects it all?

cubic® | Advancing Mobility Together®

cubic.com/transportation

Directory
ITS UK members

Executive Member

Intelligent Transport Systems UK
Empowering Transport Technology

4way Consulting
4way delivers specialist technology consultancy advice and support, working with clients who provide high-quality transportation and mobility solutions for their customers. We collaborate with our clients, designing and delivery innovative digital solutions which make Connected Roads, Smart Cities, and Future Mobility a reality.

Jason Loader
T: (0)77 3800 1336
E: jason.loader@4wayconsulting.com
W: www.4wayconsulting.com
Our sectors: Road, Active Travel & Micromobility, Integrated Transport
Our services: Enforcement and Road Safety

Acusensus
Acusensus are the world leaders in distracted driving and seatbelt enforcement technology, having invented and delivered the world's first operational solutions. Award winning 'Heads Up' allows authorities to identify and capture violations, 24/7, for all speeds and weather conditions. Half of UK police forces have used it, with many carrying out live enforcement operations.

Geoff Collins
T: 07867 784 115
E: geoff@acusensus.com
W: www.acusensus.co.uk
Our sectors: Road
Our services: Enforcement and Road Safety

AECOM
Lee Street
T: +44 7900 910563
E: lee.street@aecom.com
W: www.aecom.com
Our sectors: ITS for Roads/Highways, Public transport systems, Active Travel & Micromobility scheme development, Shared Mobility schemes, Parking systems, MaaS for Integrated Transport, Freight & Logistic, Drone/UAV applications, and ITS for Maritime, Ports, Rail and Aviation
Our services: ITS for all applications supporting Traffic Management, Control, Information and Monitoring. Compliance and Enforcement systems, Demand responsive transport, C-ITS, Cooperative systems & CAM, Data Services, IoT & Cloud services, Communication systems including 5G & Connectivity, Passenger Experience & Journey Planning, Ticketing & Payments, Road User Charging, EV & Charging technology, Digital twins, Operations and maintenance, Mobility as a Service

AGD Systems
Kieran Corbally
T: 01452 557401
E: sales@agd-systems.com
W: www.agd-systems.com
Our sectors: Roads, Active Travel & Micromobility, Parking, Other
Our services: Enforcement or road safety, Traffic Management, Passenger Experience & Journey Planning, Other

Agilysis
Our mission is to create safe, sustainable communities. For over a decade, we've focused on understanding "what works" by leveraging evidence from diverse data sources and research. Using connected vehicle data, collision and casualty data, sociodemographic data, AI and advanced analytical techniques, we help transport authorities achieve Vision Zero goals.

Richard Owen
T: +44 (0) 1295 731811
E: Richard.Owen@Agilysis.co.uk
W: www.agilysis.co.uk
Our sectors: Road
Our services: Enforcement or Road Safety, Data Services & Cloud, Telematics & Navigation Systems

Aisin RoadTrace
Wesley Bateson
E: wesley.bateson@aisin-europe.com
Our sectors: Road, Active Travel and Micromobility
Our services: Connected Vehicle Data Analysis, Road Safety Data Analysis, Safety Insights

Alchera Technologies
Anna Jordan
T: 07851228046
E: anna@alcheratechnologies.com
Our sectors: Road, Bus or Coach, Active Travel & Micromobility, Integrated Transport, Freight, Logistics or Maritime
Our services: Demand responsive transport, Cooperative systems & CAM, IoT, 5G & Connectivity, Passenger Experience & Journey Planning, EV & Charging technology, Traffic Management, Data Services & Cloud, Digital twins & predictive maintenance

Algosystems Qatar
Moath Alomari
T:+974555773833
E: ceo@algosystems-qatar.com / mouathmf@yahoo.com
Our sectors: All modes
Our services: Tolling or road user charging, Enforcement, Cooperative systems & CAM, IoT, 5G & Connectivity, Ticketing & Payments, EV & Charging technology, Traffic Management, Telematics & Navigation Systems, Data Services & Cloud, Mobility as a Service, Cybersecurity

Allan Hill
Allan Hill
T: 07517457486
E: allanhill.deecee@gmail.com
Our sectors: Roads
Our services: Roads

Amalo Consulting
Nathan Brook
T: 07564 051739
E: nathan@amalo.co.uk
W: www.amalo.co.uk
Our sectors: Road
Our services: Traffic Signals

Amazon Web Services (AWS)
Jack Lamport
E: jlamport@amazon.co.uk
W: www.amazon.co.uk
Our sectors: All modes
Our services: All – excluding Asset management, Associated Services, such as recruitment, communications or HR

Amey
Tom Cox and Emily See
E: tom.cox@amey.co.uk and emily.see@amey.co.uk
W: www.amey.co.uk
Our sectors: Road, Active Travel & Micromobility, Shared Mobility, Integrated Transport, Freight, Logistics or Maritime, Light or heavy rail
Our services: Enforcement, Demand responsive transport, Cooperative systems & CAM, IoT, 5G & Connectivity, Passenger Experience & Journey Planning, EV & Charging technology, Digital twins & predictive maintenance, Mobility as a Service

Arcadis
Delivering sustainable design, engineering, and consultancy solutions. Arcadis is the world's leading company delivering intelligence-driven sustainable design, engineering, and consultancy solutions for natural and built assets. We are more than 36,000 architects, data analysts, designers, engineers, project planners, and technical experts, all driven by our passion for improving quality of life.

Graeme Scott
T: +44 141 331 4500
E: graeme.scott@arcadis.com
W: www.arcadis.com
Our sectors: Road, Bus or Coach, Active Travel & Micromobility, Shared Mobility,Parking, Integrated Transport, Freight, Logistics or Maritime, Drones or UAVs, Light or heavy rail, Aviation, Maritime/Ports
Our services: Tolling or road user charging, Enforcement, Demand responsive transport, Cooperative systems & CAM, IoT, 5G & Connectivity, Passenger Experience & Journey Planning, Ticketing & Payments, EV & Charging technology, Traffic Management, Telematics & Navigation Systems, Data Services & Cloud, Digital twins & predictive maintenance, Mobility as a Service, Smart Cities and Communities, Network Management and Operations, Air Quality and Environmental, Climate Technologies

Arup
Alastair Boswell
T: 0781 301 5020
E: alastair.boswell@arup.com
W: www.arup.com
Our sectors: All modes
Our services: Tolling or road user charging, Enforcement or road safety, Demand responsive transport, Cooperative systems & CAM, IoT, 5G & Connectivity, Passenger Experience & Journey Planning, Ticketing & Payments, EV & Charging technology, Traffic Management, Telematics & Navigation Systems, Data Services & Cloud, Digital twins & predictive maintenance, Mobility as a Service, Cybersecurity, Asset management

AtkinsRéalis
Andy Collins
M: +44 7341 12 8305
E: Andy.Collins@atkinsrealis.com
Our sectors: All Modes
Tolling or road user charging, Enforcement or road safety, Demand responsive transport, Cooperative systems & CAM, IoT, 5G & Connectivity, Passenger Experience & Journey
Our services: Planning, Ticketing & Payments, EV & Charging technology, Telematics & Navigation Systems, Data Services & Cloud, Digital twins & predictive maintenance, Mobility as a Service, Cybersecurity, Asset management, Other - Consultancy and Design Services

Balfour Beatty
Nick Fearnhead
M: +44 (0)7707 269146
E: nick.fearnhead@balfourbeatty.com
W: www.balfourbeatty.com
Our sectors: Road, Bus or Coach, Integrated Transport, Freight, Logistics or Maritime, Light or heavy rail
Our services: Tolling or road user charging, IoT, 5G & Connectivity, Passenger Experience & Journey Planning, Traffic Management, Telematics & Navigation Systems, Data Services & Cloud, Digital twins & predictive maintenance

Bank Top Consulting
Richard Schofield
T: 07775 662842
E: richard.schofield@banktop.tech
W: www.banktop.tech

Boundary Concepts
Mark Reynolds
T: (0) 7736 159 853
E: mark@boundaryconcepts.com
Our sectors: Road, Other
Our services: Enforcement, Demand responsive transport, Traffic Management, Other

Boundary Marketing and PR
Helen Blood
T: 07896 560999
E: helen@boundarymarketing.co.uk
W: www.boundarymarketing.co.uk
Our sectors: All modes
Our services: Marketing & Communications

Bournemouth Christchurch and Poole Council
Michelle Fillingham
T: 01202 128584
E: michelle.fillingham@bcpcouncil.gov.uk
W: www.bcpcouncil.gov.uk
Our sectors: Road
Our services: Demand responsive transport, IoT, 5G & Connectivity, Traffic Management

British Parking Association
Yasmin Jefferies
T: 01444 447311
E: yasmin.j@britishparking.co.uk
W: www.britishparking.co.uk
Our sectors: Parking
Our services: Enforcement, Ticketing & Payments, EV & Charging technology, Traffic Management, Mobility as a Service

BT Active Intelligence
Sara Rodriguez Terres
E: sara.rodriguezterres@bt.com
W: www.activeintelligence.bt.com

Burden Consulting
Mike Burden
T: 07850 348 134
E: mike.burden@burdenconsulting.co.uk
Our sectors: Road, Bus or Coach, Active Travel & Micromobility, Shared Mobility, Parking, Integrated Transport, Light or heavy rail
Our services: Tolling or road user charging, Enforcement, Demand responsive transport, Passenger Experience & Journey Planning, Ticketing & Payments, Data Services & Cloud, Mobility as a Service

Causeway Technologies
Verity Cottrell
E: Verity.Cottrell@causeway.com
W: www.causeway.com
Our sectors: Road, Bus or Coach, Parking
Our services: Enforcement or road safety, Traffic Management, Data Services & Cloud, Asset management, Other

Chris Kennett Consulting
Chris Kennett
T: 07753804411
E: chris@chriskennett.consulting
W: www.chriskennett.consulting
Our sectors: Road
Our services: Traffic Management

Citisense
Daniel Hanshaw
T: 07500 970809
E: daniel@citisense.com
W: www.citisense.com
Our sectors: Road, Active Travel & Micrmobility, Parking, Integrated Transport
Our services: Experience & Journey Planning, Data Services & Cloud

Clearview Intelligence

Clearview Intelligence
Clearview Intelligence delivers innovative traffic management and smart mobility solutions, enhancing road safety, sustainability, and efficiency. With over 50 years of expertise, we pioneer cutting-edge technology—from AI-driven insights to solar-powered road studs—helping create safer, greener, and smarter transport networks for a better future.

Ashley Morrell-Swain
T: 01908 088008
E: Ashley.Morrell-Swain@clearview-intelligence.com
W: www.clearview-intelligence.com
Our sectors: Road, Active Travel & Micromobility, Parking
Our services: Traffic Management, Data Services & Cloud

Clearway Group
Simon Waterfall
T: 0203 325 0250
E: Simon.waterfall@clearway.co.uk
W: www.clearway.co.uk
Our sectors: All modes
Our services: Enforcement or road safety, IoT, 5G & Connectivity, Telematics & Navigation Systems, Data Services & Cloud

Coeval
Scott Hatcher
T: 07585 941627/0121 427 9590
E: scott.hatcher@coeval.uk.com
W: www.coeval.uk.com
Our sectors: Road, Active Travel & Micromobility, Parking, Integrated Transport
Our services: Signage and Overheight detection

Cognizant Worldwide
Natasha Cordell
T: (0) 7385 425069
E: Natasha.Cordell@cognizant.com
W: www.cognizant.com
Our sectors: Road, Bus or Coach, Integrated Transport, Freight, Logistics or Maritime, Drones or UAVs, Light or heavy rail
Our services: IoT, 5G & Connectivity, Data Services & Cloud, Digital twins & predictive maintenance, Other

Connected Places Catapult
Monika Czechowska-Rawnson
T: +44 (0) 75 5285 5807
E: monika.crawnson@cp.catapult.org.uk
W: www.cp.catapult.org.uk
Our sectors: All modes
Our services: IoT, 5G & Connectivity, Passenger Experience & Journey Planning, EV & Charging technology, Traffic Management, Data Services & Cloud, Digital twins & predictive maintenance, Mobility as a Service

Coventry University
Kevin Vincent
T: 079749 84581
E: aa7850@coventry.ac.uk
W: www.coventry.ac.uk
Our sectors: Road, Bus or Coach, Active Travel & Micromobility, Shared Mobility, Drones or UAVs
Our services: Road safety, Cooperative systems & CAM, IoT, 5G & Connectivity, Passenger Experience & Journey Planning, Digital twins & predictive maintenance, Mobility as a Service, Cybersecurity, Traffic Management

Crown Commercial Service (CCS)
Steve Sopp
T: 07759 133957
E: steve.sopp@crowncommercial.gov.uk
W: www.crowncommercial.gov.uk/about-ccs
Our sectors: Road, Bus or Coach, Active Travel & Micromobility, Shared Mobility, Parking, Integrated Transport, Freight, Logistics or Maritime, Drones or UAVs, Light or heavy rail
Our services: Tolling or road user charging, Enforcement, Demand responsive transport, Cooperative systems & CAM, IoT, 5G & Connectivity, Passenger Experience & Journey Planning, Ticketing & Payments, EV & Charging technology, Traffic Management, Telematics & Navigation Systems, Data Services & Cloud, Digital twins & predictive maintenance, Mobility as a Service

cubic.

Cubic Transportation Systems
Cubic Transportation Systems helps transportation authorities and agencies design, integrate, deploy, and manage mobility systems fit for the challenges of tomorrow. We work alongside our partners to understand their needs, objectives, and budgets while helping them build modern mobility systems to manage demand and congestion, make journeys safer, and empower travellers.

Emma Thomas
T: 01737 782560
E: emma.thomas@cubic.com
W: www.cubic.com/transportation
Our sectors: Light or heavy rail, Integrated Transport, Road
Our services: Tolling or road user charging, Enforcement or road safety, Passenger Experience & Journey Planning, Ticketing & Payments, Traffic Management

Department for Infrastructure NI
Philip Robinson
E: philip.robinson@infrastructure-ni.gov.uk
W: www.infrastructure-ni.gov.uk
Our sectors: Road
Our services: IoT, 5G & Connectivity, Telematics & Navigation Systems

Dorset Council
Kerry Stone
T: 01305 225412
E: kerry.stone@dorsetcouncil.gov.uk
W: www.dorsetcouncil.gov.uk
Our sectors: Road, Bus or Coach, Active Travel & Micromobility, Parking, Integrated Transport
Our services: Enforcement, Demand responsive transport, Cooperative systems & CAM, IoT, 5G & Connectivity, Passenger Experience & Journey Planning, Ticketing & Payments, EV & Charging technology, Traffic Management, Data Services & Cloud, Mobility as a Service

Egis

Egis is a leading global consulting, engineering and operating firm. We work side by side with our clients, across every aspect of transport and the built environment to build a more balanced, sustainable and resilient world. Our talented people care deeply about using their creativity and expertise to shape a better future for communities all around the globe.

Xavier Odolant
T: + 33 6 22 86 42 63
E: xavier.odolant@egis.fr
W: www.egis-group.com
Our sectors: Road, Active Travel & Micromobility, Shared Mobility, Parking, Integrated Transport, Light or heavy rail
Our services: Tolling or road user charging, Enforcement, Ticketing & Payments, Traffic Management, Data Services & Cloud, Digital twins & predictive maintenance, Mobility as a Service, Cybersecurity, Asset management

emovis
Neil Conway
E: Neil.conway@emovis.com
T: 07495668738
W: www.emovis.com
Our sectors: Road
Our services: Tolling or road user charging, Enforcement

Electronic Media Servics (EMS)
Andrew Lambert
T: 01428751655
E: andrew.lambert@ems-uk.com
W: www.ems-uk.com
Our sectors: Road, Active Travel & Micromobility, Freight, Logistics or Maritime
Our services: Enforcement or road safety, Demand responsive transport, IoT, 5G & Connectivity, Traffic Management, Telematics & Navigation Systems, Data Services & Cloud, Digital twins & predictive maintenance, Mobility as a Service, Cybersecurity, Asset management

EMSOL
Adrian Thiedeman
T: 07799626406
E: adrian.thiedeman@emsol.io

Essex County Council
Jo Heynes
T: 01245 342556
E: Jo.Heynes@essexhighways.org
W: www.essex.gov.uk/highways
Our sectors: Road, Bus or Coach, Active Travel & Micromobility, Parking, Integrated Transport
Our services: Enforcement, Passenger Experience & Journey Planning, EV & Charging technology, Traffic Management, Telematics & Navigation Systems, Digital twins & predictive maintenance, Road safety,Asset management, Associated Services, such as recruitment, communications or HR

FLIR

FLIR cameras, sensors, and software revolutionize how traffic flows on roadways and in tunnels around the world. Our unique, field-proven solutions help vehicles, pedestrians, and bicycles move safely and smoothly through complex urban and interurban environments. Find out more at www.flir.eu/its

Sukhdev Bhogal
T: 07513 020925
E: Sukhdev.Bhogal@teledyne.com
W: www.flir.com/traffic
Our sectors: Road, Shared Mobility, Integrated Transport, Other
Our services: Traffic Management, Road Safety, Telematics & Navigation Systems, Data Services & Cloud, Digital twins & predictive maintenance

Frazer Nash Consulting
David O'Neil
T: 01306 878075
E: d.oneil@fnc.co.uk
W: www.fnc.co.uk
Our sectors: Road, Bus or Coach, Active Travel, Shared Mobility, Integrated Transport, Freight, logistics or Maritime, Drones & UAVs, Light & Heavy Rail
Our services: Data Services & Cloud, Digital Twins, Cybersecurity, Asset Management, Other

Fujitsu
Simon Scott
T: 07967040605
E: simon.scott@fujitsu.com
W: www.global.fujitsu/en-uk
Our sectors: All modes
Our services: Demand responsive transport, IoT, 5G & Connectivity, Passenger Experience & Journey Planning, Ticketing & Payments, EV & Charging technology, Traffic Management, Data Services & Cloud, Digital twins & predictive maintenance, Mobility as a Service, Cybersecurity, Asset management, Associated Services, such as recruitment, communications or HR

Future Traffic Solutions
Nicolina Cooper
E: nicolina@futuretraffic.co.uk

Future Transport
Samuel Bailey
E: samuel@futuretransport.info

Gaist
Jake Lawson
T: 01535 280066
E: jake.lawson@gaist.co.uk
W: www.gaist.co.uk
Our sectors: Road, Active Travel & Micromobility
Our services: Condition Surveying and Asset Inventory/ Provision of Scheme Identification and Lifecycle Modelling

General Noise
Jason Dunne
T: 07734856901
E: Jason@generalnoise.co.uk
Our Services: Enforcement

GEWI
Danny Woolard
T: +44 7880 007415
E: danny.woolard@gewi.com
W: www.gewi.com
Our sectors: Road, Active Travel & Micromobility, Integrated Transport
Our services: Cooperative systems & CAM, Traffic Management, Telematics & Navigation Systems, Other

Glasgow City Council
Nicola Bell
T: 0141 287 9447
E: nicola.bell@glasgow.gov.uk
W: www.glasgow.gov.uk
Our sectors: Road safety, Traffic Management
Our services: TS and Traffic Signal Maintenance

Google Cloud
Chacasta Pritlove
E: dftcloud@google.com
W: www.cloud.google.com
Our sectors: Integrated Transport, All modes, Other
Our services: IoT, 5G & Connectivity, Passenger Experience & Journey Planning, Ticketing & Payments, Telematics & Navigation Systems, Data Services & Cloud, Digital twins & predictive maintenance, Mobility as a Service, Cybersecurity, Associated Services, such as recruitment, communications or HR, Other

Grid Smarter Cities
Neil Herron
T: 07776202045
E: neil.herron@gridsmartercities.com
Our sectors: Road, Parking, Integrated Transport, Freight, Logistics or Maritime
Our services: Tolling or road user charging, Enforcement, IoT, 5G & Connectivity, Ticketing & Payments, EV & Charging technology, Traffic Management, Digital twins & predictive maintenance

HAAS Alert

HAAS Alert provides real-time digital alerts to drivers and connected vehicles, enhancing roadway safety. Its Safety Cloud® platform delivers automated alerts from emergency vehicles, work zones, and other roadway hazards to navigation apps and in-car systems, reducing collisions and improving situational awareness. Trusted worldwide, HAAS Alert advances intelligent transportation and Vision Zero goals.

Gareth Evans
T: 07791869365
E: gareth@haasalert.com
W: www.haasalert.com
Our sectors: Road, Integrated Transport, Other
Our services: Enforcement or road safety, Telematics & Navigation Systems, Data Services & Cloud, Other

Hampshire County Council
Emma Bower
T: 07739 050679
E: emma.bower@hants.gov.uk
W: www.hants.gov.uk
Our sectors: Road, Bus or Coach, Active Travel & Micromobility, Shared Mobility, Parking
Our services: Enforcement, IoT, 5G & Connectivity, Passenger Experience & Journey Planning, EV & Charging technology, Traffic Management, Mobility as a Service

Harrod Booth Consulting
Jon Harrod Booth
T: 07990 520 404
E: Jon@harrodbooth.com
Our sectors: Road, Shared Mobility, Parking, Integrated Transport, Other
Our services: Cooperative systems & CAM, EV & Charging technology, Traffic Management, Data Services & Cloud, Digital twins & predictive maintenance, Other

Highway Access Solutions
Andrew Dennison
T: 01159 560008 / 07738 274470
E: andrew@highwayaccess.co.uk
W: www.highwayaccess.co.uk
Our sectors: Road, Active Travel & Micromobility, Parking, Other

Immense

Immense AI

Immense provide impact assessment tools for the delivery and operation of transport systems infrastructure. Our platform enables users to simulate 'what if' scenarios for transport and mobility. Customers can better manage transportation networks, analyse policy impacts, and assess fleet operations using powerful simulation and predictive modelling and accurate 'digital twins'.

Robin North
T: +44 7971 226 590
E: robin.north@immense.ai
W: www.immense.ai
Our sectors: All modes
Our services: Demand responsive transport, Cooperative systems & CAM, Traffic Management, Passenger Experience & Journey Planning, Data Services & Cloud, Digital twins & predictive maintenance, Mobility as a Service

Imperial Civil Enforcement Solutions
Ashley Bijster
T: 0117 925 1700
E: ashley.bijster@imperial.co.uk
W: www.imperial.co.uk
Our sectors: Road, Active Travel & Micromobility, Parking, Integrated Transport
Our services: Tolling or road user charging, Enforcement, Ticketing & Payments

INDRA

Indra Sistemas S.A

Indra, a global technology leader, excels in smart mobility, managing transport infrastructures like London's Silvertown Tunnel, Brisbane's Transurban highway or Virginia's I-66. Indra's innovative solutions, include AI, 3D LIDAR, Intelligent Transport Systems, Vehicle Occupancy Counting, Radars, Mobility as a Service, and Low Emission Zones, to enhance safety and user experience.

Mark Rocky
T: +44 (0) 7545933757
E: mrocky@indra.es
W: www.indracompany.com
Our sectors: All modes
Our services: Tolling or road user charging, Enforcement or road safety, Demand responsive transport, IoT, 5G & Connectivity, Passenger Experience & Journey Planning, Ticketing & Payments, EV & Charging technology, Traffic Management, Telematics & Navigation Systems, Data Services & Cloud, Digital twins & predictive maintenance, Mobility as a Service, Cybersecurity, Asset management

Innovate UK
Martine Harvey
T: +44 (0)7526582913
E: martine.harvey@iuk.ukri.org
W: www.innovateuk.org
Our sectors: All Modes
Our services: Other

INRIX
Dominic Paulo
T: (0)7976456 473
E: dominic.paulo@inrix.com
W: www.inrix.com
Our sectors: Road, Active Travel & Micromobility, Shared Mobility, Parking, Integrated Transport, Freight, Logistics or Maritime
Our services: Tolling or road user charging, Demand responsive transport, IoT, 5G & Connectivity, Passenger Experience & Journey Planning, Ticketing & Payments, EV & Charging technology, Traffic Management, Data Services & Cloud, Mobility as a Service, Other

Institute of Highway Engineer (IHE)
Lyle Andrew
E: lyle.andrew@theihe.org
W: www.theihe.org
Our sectors: Highways Management & Maintenance
Our services: Highways

Intelligent Instruments
Steve Gosling
T: 02381 555080
E: info@intelligentinstruments.co.uk
W: www.intelligentinstruments.co.uk
Our sectors: Road
Our services: Enforcement, Ticketing & Payments, Data Services & Cloud, Noise

Interchange
Andrew Dowding
T: +44 (0)7802 174890
E: Andrew.Dowding@MeetingsofMinds.co.uk
W: www.interchange-uk.com
Our sectors: Road, Bus or Coach, Active Travel & Micromobility, Shared Mobility, Parking, Integrated Transport, Freight, Logistics or Maritime, Drones or UAVs, Light or heavy rail
Our services: Associated Services, such as recruitment, communications or HR

Ioki - a DB Company
Benjamin Pfeiffer
W: ioki.com/en/home/

Isquaredt
Tim Gammons
T: +44 7824 622387
E: tim@isquaredt.co.uk
Our sectors: Road, Bus or Coach, Active Travel & Micromobility, Shared Mobility, Parking, Integrated Transport, Freight, Logistics or Maritime
Our services: Tolling or road user charging, Passenger Experience & Journey Planning, Ticketing & Payments, Traffic Management, Mobility as a Service

ISR Recruitment
Simon Mattock
T: 07931 335414
E: smattock@isrecruit.com
W: www.isrecruit.com
Our sectors: Road, Bus or Coach, Active Travel & Micromobility, Shared Mobility, Parking, Integrated Transport, Freight, Logistics or Maritime, Drones or UAVs
Our services: Associated Services, such as recruitment, communications or HR

ITS Now
Alistair Gollop
T: 07717 224 366
E: alistair.gollop@itsnow.org
W: www.itsnow.org
Our sectors: Road, Bus or Coach, Active Travel & Micromobility, Shared Mobility, Parking, Integrated Transport, Freight, Logistics or Maritime
Our services: Educational and informative resources across the ITS sector

Jacobs
Pryce Evans
T: + 44 (0)7767 615176
E: Pryce.Evans@jacobs.com
W: www.jacobs.com
Our sectors: Road, Active Travel & Micromobility, Shared Mobility, Integrated Transport, Freight, Logistics or Maritime, Light or heavy rail
Our services: Tolling or road user charging, Enforcement, Demand responsive transport, Cooperative systems & CAM, IoT, 5G & Connectivity, Passenger Experience & Journey Planning, Ticketing & Payments, EV & Charging technology, Traffic Management, Digital twins & predictive maintenance, Mobility as a Service

JCT Consultancy
John Nightingale
T: +44 (0) 1522 751010
E: sales@jctconsultancy.co.uk
W: www.jctconsultancy.co.uk
Our sectors: Road, Bus or Coach, Integrated Transport
Our services: Traffic Management

JENOPTIK
MORE LIGHT

JENOPTIK (UK)

Jenoptik UK is part of JENOPTIK Smart Mobility Solutions, providing ANPR based, innovative, and sustainable technology and services for the Road Safety, Civil Security and ITS markets. Our customers include local and central government, police and enforcement agencies, as well as public and private organisations.

Victoria Curran
T: +44 1183 130303
E: victoria.curran@jenoptik.co.uk
W: www.jenoptik.com
Our sectors: Road, Parking
Our services: Tolling or road user charging, Enforcement, Traffic Management, Data Services & Cloud

Jeremy Evans
Jeremy Evans
T: 07811 943 051
E: jeremyevans@btconnect.com

JFG Communications
Jo Field
T: 0208 050 3156
E: jo@jfgcomms.co.uk
W: www.jfgcomms.co.uk
Our sectors: Road, Bus or Coach, Active Travel & Micromobility, Shared Mobility, Parking, Integrated Transport, Freight, Logistics or Maritime, Light or heavy rail
Our services: Associated Services, such as recruitment, communications or HR

Journeo
Paul Nelson
T: 0203 651 9166
E: paul.nelson@journeo.com
W: www.journeo.com
Our sectors: Bus or Coach, Parking, Integrated Transport, Light or heavy rail
Our services: IoT, 5G & Connectivity, Passenger Experience & Journey Planning, Telematics & Navigation Systems, Digital twins & predictive maintenance, Security, Fleet Management, Real Time Passenger Information

Kainos
Steffen Lydum
T: 07788 367 880
E: s.lydum@kainos.com
W: www.kainos.com
Our sectors: Road, Parking, Integrated Transport, Other, Light and heavy rail, Other
Our services: Enforcement or road safety, Cooperative systems & CAM, Passenger Experience & Journey Planning, Data Services & Cloud, Digital twins & predictive maintenance, Mobility as a Service, Cybersecurity, Other (Digital Transformation, Accessibility and Inclusion, Managed Services, AI, Dynamics and Low Code)

Kapsch TrafficCom
Tim Wray
T: +44 7421834874
E: tim.wray@kapsch.net
W: www.kapsch.net
Our sectors: Road, Integrated Transport
Our services: Tolling or road user charging, Enforcement, Demand responsive transport, Cooperative systems & CAM, Traffic Management, Telematics & Navigation Systems

Ⓔ Kier Services, Highways (Technology)
Mat Smith
T: 07795 355134
E: mat.smith@kier.co.uk
W: www.kier.co.uk
Our sectors: Road, active travel or micromobility, integrated transport, light or heavy rail
Our services: Traffic management, asset management, Data Services & Cloud, Digital twins & predictive maintenance

KL Systems
George Brown
T: 07889 950310
E: gbkls@hotmail.co.uk
W: www.klsystems.co.uk
Our sectors: Road, Integrated Transport
Our services: Cooperative systems & CAM, Traffic Management, Data Services & Cloud, Digital twins & predictive maintenance

Laser Tech
Hardeep Ubhey
T: 01926698686
E: hardeep.ubhey@ltiuk.com
Our sectors: Road
Our services: Enforcement

Levett Business Services
Neil Levett
T: 07774 290522
E: neil@levweb.uk
W: www.levweb.uk
Our sectors: Road, Active Travel & Micromobility,, Parking, Integrated Transport
Our services: Enforcement or road safety, IoT, 5G & Connectivity, EV & Charging technology, Traffic Management, Telematics & Navigation Systems, Data Services & Cloud, Digital twins & predictive maintenance, Asset management, Other: communications and Consultancy Services

LitterCam
Andrew Kemp
E: a.kemp@littercam.ai

M6 Toll
Joanna Seabright
T: 03306600790
E: customer.services@m6toll.co.uk
W: www.m6toll.co.uk
Our sectors: Road
Our services: Tolling

MaaStran
Erika Vincent MBA
T: 01483772241
E: erika@maastran.com
W: www.maastran.com
Our sectors: Bus or Coach, Active Travel & Micromobility, Shared Mobility, Integrated Transport, Light or heavy rail
Our services: IoT, 5G & Connectivity, Passenger Experience & Journey Planning, Ticketing & Payments, Mobility as a Service

MaaS Scotland (part of Technology Scotland)
Ally McInroy
T: 07715 678473
E: alastair.mcinroy@technologyscotland.scot
W: www.technologyscotland.scot
Our sectors: All Modes
Our services: Mobility as a Service, Other - Industry Association

Marston Holdings
Rob Kinch
T: +44 7920 109360
E: rkinch@videalert.com
W: www.marstonholdings.co.uk
Our sectors: Traffic Management and Traffic Enforcement, Parking
Our services: Tolling and Road user charging, Enforcement and Road Safety, IOT 5G and Connectivity, Ticketing and Payments, EV & Charging Tech, Traffic Management, Data Services, Cloud and hosted platforms.

Ⓔ Mason Street Furniture
Mark Roberts
T: 07896113202
E: Mark.Roberts@msf.co.uk
Our sectors: Road, Active Travel & Micromobility, Parking, Integrated Transport
Our services: Tolling or road user charging, Enforcement, IoT, 5G & Connectivity, EV & Charging technology

Messagemaker Displays
Daniella de Nobrega
T: 01737 774081
E: daniella@stocksigns.co.uk
W: www.messagemaker.co.uk
www.stocksigns.co.uk
Our sectors: Road, Parking, Integrated Transport, Light or heavy rail
Our services: Traffic Management, Enforcement or road safety, Passenger Experience & Journey Planning, Other, LED Signs

Mobile Mark Europe
Linda Clark
T: 01543 459555
E: lclark@mobilemarkeurope.co.uk
W: www.mobilemark.com
Our sectors: Road, Bus or Coach, Active Travel & Micromobility, Parking, Integrated Transport, Freight, Logistics or Maritime, Drones or UAVs
Our services: Communications Antennas

Mobility Business
Barak Sas
T: +44 7838 778838
E: barak@movingppl.com
W: www.movingppl.com
Our sectors: Bus & Coach, Active Travel & Micromobility, Shared Mobility,
Our services: Integrated Transport, Drones & UAVs

Mobility Flow
Chris Cowen
T: 07929395727
E: Chris@mobilityflow.co.uk
W: www.mobilityflow.co.uk
Our sectors: Road, Active Travel & Micromobility, Shared Mobility, Integrated Transport, Freight, Logistics or Maritime
Our services: Cooperative systems & CAM, Passenger Experience & Journey Planning, Traffic Management, Telematics & Navigation Systems, Data Services & Cloud, Digital twins & predictive maintenance, Mobility as a Service

Mobius Networks
Peter Simm
T: 07500 332761
E: peters@mobiusnetworks.co.uk
W: www.mobiusnetworks.co.uk
Our sectors: Road, Bus or Coach, Parking, Light or heavy rail
Our services: Tolling or road user charging, Enforcement, IoT, 5G & Connectivity, Ticketing & Payments, EV & Charging technology, Traffic Management, Telematics & Navigation Systems, Data Services & Cloud

Ⓔ Mott MacDonald
Stuart Scott
T: 0141 222 4575
E: Stuart.scott@mottmac.com
W: www.mottmac.com
Our sectors: All Modes
Our services: Tolling or road user charging, Enforcement or road safety, Demand responsive transport| IoT, 5G & Connectivity, Ticketing & Payments, EV & Charging technology, Traffic Management, Telematics & Navigation Systems, Data Services & Cloud, Digital twins & predictive maintenance, Mobility as a Service, Cybersecurity, Asset management

Ⓔ National Highways
Vivi Michalaki
T: +44 (0) 300 470 4512
E: Vivi.Michalaki@nationalhighways.co.uk
W: www.nationalhighways.co.uk
Our sectors: Roads, Integrated Transport
Our services Other – Government company, managing the Strategic Road Network in England

Navtech Radar
Meirion Winmill
T: 01235 832419
E: meirion.winmill@navtechradar.com
W: www.navtechradar.com
Our sectors: Road
Our services: Enforcement or road safety, Traffic Management

NEMI Mobility Solutions
Lisa Grace
T: +34 620148156
E: lisa.grace@nemi.mobi
W: www.nemi.mobi
Our Sectors: Shared Mobility
Our Services: Demand Responsive Transport

Ⓔ Neology UK
James Riley
T: +44 7538 346535
E: jriley@uk.neology.net
W: www.neology.com
Our sectors: Road
Our services: Enforcement, Tolling

Ⓔ Netcompany
Tom Richards
T: 07709 449 728
E: tom.richards@netcompany.com
W: www.netcompany.com
Our sectors: Road, Bus or Coach, Integrated Transport, Freight, Logistics or Maritime, Light or heavy rail
Our services: Tolling or road user charging, Passenger Experience & Journey Planning, Traffic Management, Data Services & Cloud, Digital twins & predictive maintenance

Nicander
Sam Brierley
T: 07733014995
E: sam.brierley@nicander.co.uk
W: www.nicander.co.uk
Our sectors: Road, Bus or Coach, Integrated Transport
Our services: Data Services & Cloud, Digital twins & predictive maintenance

NOW Wireless
Paul Hudson
T:01883 621100
E: paul@nowwireless.com
W: www.nowwireless.com

Oppy AI
Rachael Quinn
T: 07717 811 053
E: rachael@oppyai.co.uk
W: www.oppyai.co.uk
Our sectors: All modes
Our services: Tolling or road user charging, Enforcement or road safety, Demand responsive transport, Cooperative systems & CAM, Passenger Experience & Journey Planning, Ticketing & Payments, EV & Charging technology, Traffic Management, Telematics & Navigation Systems, Digital twins & predictive maintenance, Mobility as a Service, Cybersecurity, Asset management

Ordnance Survey
Dave Russell
T: +44 (0)7899 955298
E: david.russell@os.uk
W: www.os.uk
Our sectors: Other – Providing geospatial data and services

to public sector and commercial organisations across all transport modes
Our services: Other – Geospatial data and service provision

Oxfordshire County Council
Ruth Anderson
T: 07825 755549
E: ruth.anderson@oxfordshire.gov.uk
W: www.oxfordshire.gov.uk
Our sectors: Road, Bus or Coach, Active Travel & Micromobility, Shared Mobility, Parking, Integrated Transport, Freight, Logistics or Maritime, Drones or UAVs
Our services: Enforcement, Demand responsive transport, Cooperative systems & CAM, IoT, 5G & Connectivity, Passenger Experience & Journey Planning, Ticketing & Payments, EV & Charging technology, Traffic Management, Digital twins & predictive maintenance, Mobility as a Service, Air quality

P. Ducker Systems
Tim Whiteley
T: 01332 280195
E: tim.whiteley@pdslimited.co.uk
W: www.pdslimited.co.uk
Our sectors: Road, Active Travel & Micromobility, Integrated Transport
Our services: IoT, 5G & Connectivity, Traffic Management, Data Services & Cloud, Digital twins & predictive maintenance

P&D Specialist Services
Specialising in road safety, P&D Specialist Services provide top-notch safety camera installations, including CCTV, TASCAR, and Permanent Safety Camera installations and maintenance. Our expertise extends to Local Authority projects, EV charging stations, festive town centre light installations and removals, and advanced heat detection systems. Trust us to enhance safety and efficiency in every project we undertake.

Paul Wilson
T: 01629 581150
E: paul.wilson@p-dss.co.uk
Our sectors: Road, Integrated Transport
Our services: Enforcement, Road Safety, IoT, 5G & Connectivity, EV & Charging Technology, Traffic Management, Other

PACTS
Jamie Hassall
T: 0207 222 7732
E: Jamie.hassall@pacts.org.uk
W: www.pacts.org.uk
Our sectors: Road, Bus or Coach, Active Travel & Micromobility, Shared Mobility, Parking, Integrated Transport, Freight, Logistics or Maritime, Drones or UAVs, Light or heavy rail
Our services: Enforcement, Cooperative systems & CAM, Telematics & Navigation Systems, Data Services & Cloud, Other

Padam Mobility
James West
T: +44 7808 007179
E: james@padam.io
W: www.padam-mobility.com/en
Our sectors: Shared Mobility, Integrated Transport, Bus or Coach

PH Initiatives
Paul Hutton
T: 07919 163525
E: paul@phinitiatives.com
W: www.phinitiatives.com
Our sectors: Road, Active Travel & Micromobility, Parking, Integrated Transport
Our services: Tolling or road user charging, Enforcement, Passenger Experience & Journey Planning, Ticketing & Payments, EV & Charging technology, Traffic Management, Telematics & Navigation Systems, Associated Services, such as recruitment, communications or HR

Pipster Solutions
Pipster Solutions helps businesses win public tenders. We build long-term relationships that facilitate winning bid submissions through strategy, practical management, and compelling writing. We are knowledgeable highways people, with 25 years' proven experience. Bespoke services include managing the end-to-end process, writing quality submissions, or completing individual sections, e.g. social value.

Pippa Birch
T: 077875016552
E: pippa@pipster-solutions.co.uk
W: www.pipster-solutions.co.uk
Our sectors: Other
Our services: Other

Polaris Software
Richard Gorringe
T: 07748621056
E: richard.gorringe@polarissoftware.com
W: www.polarissoftware.com
Our sectors: Road, Parking
Our services: Enforcement, Asset management, Ticketing & Payments

PTV UK
Devrim Kara
T: 0121 585 6633
E: devrim.kara@ptvgroup.com
W: www.ptvgroup.com
Our sectors: Other
Our services: All Modes

Q-Free
Jazzmyne Luke
E: Jazzmyne.Luke@q-free.com
W: www.q-free.com
Our sectors: Road, Active Travel & Micromobility
Our services: Tolling or road user charging, IoT, 5G & Connectivity, Traffic Management, Data Services & Cloud

Railway Industry Association
Rose Garber
T: 07824 665 007
E: rose.garber@riagb.org.uk
W: www.riagb.org.uk
Our sectors: Light or heavy raill
Our services: Associated Services – Trade Association

RedSpeed International
Stacey Sharif
E: Stacey.Sharif@redspeed-int.com
W: www.redspeed-int.com
Our sectors: Road
Our services: Enforcement or road safety, Data Services & Cloud

Reed Mobility
Nick Reed
T: +44 7967 757820
E: nick@reed-mobility.co.uk
W: www.reed-mobility.co.uk/
Our sectors: All Modes
Our services: Demand responsive transport, Cooperative systems & CAM, IoT, 5G & Connectivity, Traffic Management, Telematics & Navigation Systems, Data Services & Cloud, Mobility as a Service, Safety

Rennicks Group
Robert Tait
T: +44 (0)1928 579966
E: rtait@rennicks.com
W: www.rennicks.com
Our sectors: Road, Active Travel & Micromobility, Integrated Transport, Parking, Freight, Logistics or Maritime
Our services: Cooperative systems & CAM, IoT, 5G & Connectivity, Traffic Management, Tolling or road user charging, Enforcement or road safety, Digital twins & predictive maintenance

RHA
Declan Pang
T: 07462 434423
E: d.pang@rha.uk.net
W: www.rha.uk.net

Roadside Technologies
Chris Moseley
T:01246 792000
M: 07891114980
E: chris@roadside-technologies.co.uk
Our sectors: All modes
Our services: Cooptative systems & CAM, Traffic Management, Data Services & Cloud, Digital twins,

Roughan & O'Donovan
Ciaran Carey
E: Ciaran.carey@rod.ie
W: www.rod.ie
Our sectors: Road, Bus or Coach, Active Travel & Micromobility, Shared Mobility, Parking, Integrated Transport, Light rail
Our services: Enforcement or road safety, Demand responsive transport, Cooperative systems & CAM, IoT, 5G & Connectivity, EV & Charging technology, Traffic Management,Data Services & Cloud, Digital twins & predictive maintenance, Asset management

Royal College of Art - Intelligent Mobility Design Centre
Cyriel Diels
T: +44 (0)77 6584 8035
E: imdc@rca.ac.uk
W: www.rca.ac.uk/research-innovation/research-centres/intelligent-mobility-design-centre
Our sectors: Road, bus or coach, shared mobility, integrated transport
Our services: Research, Design and Consultancy

Royal Institute of Navigation
John Pottle
T: 020 7591 3134
E: director@rin.org.uk
W: www.rin.org.uk
Our sectors: Road, Integrated Transport, Drones or UAVs
Our sectors: Tolling or road user charging, Cooperative systems & CAM, IoT, 5G & Connectivity, Telematics & Navigation Systems

RTA Associates
RTA Associates , established 1991, have worked with over 200 Local Highway Authorities across the UK ranging from CPE/DPE implementation to digital mapping and surveying. RTAA OrderPro is a Digital Solutions Provider for DfT's central D-TRO hub and is a cost-effective managed service solution providing robust business continuity for TRA's.

Peter Lowe
T: 01492 585055 or 07900264137
E: plowe@rtaassociates.co.uk
W: www.rtaassociates.co.uk

Satellite Applications Catapult
Ashweeni Beeharee
T: +44 (0)1235 567 999
E: ashweeni.beeharee@sa.catapult.org.uk
W: www.sa.catapult.org.uk

SEA
SEA's intelligent transport systems improve road and rail safety, support sustainable travel, and help customers meet their environmental goals. From ROADflow moving traffic and level crossing enforcement to railway logistics and road user charging, our solutions encompass initial requirements through to in-service support for an outstanding customer experience.

Alastair Cobb
T: 01373 852151
E: alastair.cobb@sea.co.uk
W: www.sea.co.uk

Our sectors: Road, Parking, Integrated Transport, Freight, Logistics or Maritime, Light or heavy rail
Our services: Tolling or road user charging, Enforcement, IoT, 5G & Connectivity, Traffic Management, Data Services & Cloud

Secure Elements
Saket Mohan
T: 07869637964
E: saket.mohan@secureelements.co.uk
W: www.secureelements.co.uk
Our sectors: Other
Our services: IoT, 5G & Connectivity, Data Services & Cloud, Other

See.Sense
Irene McAleese
T: +44 (0) 2891078353
E: irene@seesense.cc
W: www.seesense.cc
Our sectors: Active Travel & Micromobility, Shared Mobility| Integrated Transport
Our services: Cooperative systems & CAM,| Telematics & Navigation Systems, Data Services & Cloud, Digital twins & predictive maintenance, Asset management

Seymour Surveyors
Seymour Surveyors are chartered quantity surveyors. We support businesses to win work and deliver successful outcomes for their construction and maintenance projects. Our customers trust us to develop prices for their work, manage risk and opportunity, prepare commercial win strategies, administer contracts, support corporate governance and avoid disputes.

Phil Seymour
T: 07961934414
E: phil@seymoursurveyors.com
W: www.seymoursurveyors.com

SG Transport Innovation
Stephen George
T: 07977 492901
E: stevegeorge@sgti.co.uk
W: www.sgti.co.uk
Our sectors: Road, Integrated Transport, Bus or Coach,
Our services: Traffic Management, Data Services, Cooperative systems & CAM

SICE UK
Francisco Roldan
T: 07771392519
E: fjroldan@sice.com
W: www.sice.com/en
Our sectors: Road, Light and Heavy Rail
Our services: Tolling or Road User Charging, Enforcement or Road Safety, Ticketing and Payments, Traffic Management, Cybersecurity, Asset Management, Data services and Cloud, Digital Twins and Predictive Maintenance

Smart Applications Management

Smartex

Simplifai Systems
Keith McCabe
T: +44 (0)781 272 1181
E: keith.mccabe@simplifaisystems.com
W: www.simplifaisystems.com

Smartjar
John Paddington
T: 07538 792252
E: john.paddington@smartjar.co.uk
Our sectors: Road, Bus or Coach, Active Travel & Micromobility, Shared Mobility, Parking, Integrated Transport
Our services: Cooperative systems & CAM, IoT, 5G & Connectivity, Passenger Experience & Journey Planning, Ticketing & Payments, EV & Charging technology, Traffic Management, Mobility as a Service

smartmicro UK
Peter Eccleson
T: 02392 248250
E: petere@smartvideosensing.com
W: www.smartvideosensing.com
Our sectors: Road, Active Travel & Micromobility
Our services: Enforcement, Traffic Management, Data Services & Cloud

Snapper Services
Jon Salmon
T: 07867 906 374
E: jon.salmon@snapper.co.nz
W: www.mosaiq.co
Our sectors: Bus or Coach
Our services: Data Services and Cloud

Society of Motor Manufacturers and Traders
Reema Parmar
T: +44 (0)20 7344 9204
E: rparmar@smmt.co.uk
W: www.smmt.co.uk
Our sectors: Road, Bus or Coach, Active Travel & Micromobility, Shared Mobility, Parking, Integrated Transport, Freight, Logistics or Maritime
Our services: Tolling or road user charging, Enforcement, Demand responsive transport, Cooperative systems & CAM, IoT, 5G & Connectivity, EV & Charging technology, Telematics & Navigation Systems, Data Services & Cloud, Digital twins & predictive maintenance, Mobility as a Service

Sopra Steria
Andrew Hepworth
E: andrew.hepworth@soprasteria.com
W: www.soprasteria.co.uk
Our sectors: Road, Bus or Coach, Active Travel & Micromobility, Shared Mobility, Integrated Transport, Freight, Logistics or Maritime, Drones or UAVs, Light or heavy rail
Our services: Enforcement, Passenger Experience & Journey Planning, Ticketing & Payments, Traffic Management, Data Services & Cloud, Digital twins & predictive maintenance, Mobility as a Service, Associated Services, such as recruitment

SRL Traffic Systems
Ben Parsons
E: ben.parsons@srl.co.uk
W: www.srl.co.uk
Our sectors: Road, Integrated Transport
Our services: Traffic Management, Other, Enforcement or road safety

Starling Technologies
Andrew Caleya Chetty
T: 07507 723012
E: andrew@starlingtech.co.uk
W: www.starlingtech.co.uk
Our sectors: Road, Bus or Coach, Active Travel & Micromobility, Light or heavy rail
Our services: Traffic Management, Data Services & Cloud, Other

Streetwise Technology
Dorian Isaacson
T: 07555129703
E: dorian@streetwise.technology
W: www.streetwise.technology

Steve Kearns
Steve Kearns
T: 07866 265840
E: stevekearns17@hotmail.com
Our sectors: Road
Our services: Enforcement and road safety, Parking and tolling

SWARCO Traffic Limited / SWARCO UK & Ireland
John Pickworth
T: 01748 824624
E: john.pickworth@swarco.com
W: www.swarco.com
Our sectors: Road, Active Travel & Micromobility, Shared Mobility, Parking, Integrated Transport
Our services: Passenger Experience & Journey Planning, Traffic Management, Data Services & Cloud

SYSTRA
Eifion Jenkins
3rd Floor, 1 Carey Lane, London, England EC2V 8AE
T: 020 3855 0079
E: mmuldoon@systra.com
W: www.systra.co.uk/en
Our sectors: Road, Bus or Coach, Active Travel & Micromobility, Shared Mobility, Parking, Integrated Transport, Light or heavy rail
Our services: Tolling or road user charging, Enforcement, Demand responsive transport, Passenger Experience & Journey Planning, Ticketing & Payments, EV & Charging technology, Traffic Management, Telematics & Navigation Systems, Data Services & Cloud, Digital twins & predictive maintenance, Mobility as a Service

Tamar Bridge & Torpoint Ferry Joint Committee
Andrew Vallance
T: 01752 361577
E: andrew.vallance@tamarcrossings.org.uk
W: www.tamarcrossings.org.uk

Tech App
John Turner
T: 07927 181267
E: john.turner@techappuk.com
W: www.techappuk.com
Our sectors: Road, Bus or Coach, Active Travel & Micromobility, Integrated Transport, Drones or UAVs, Light or heavy rail
Our services: Tolling or road user charging, Enforcement, Cooperative systems & CAM, IoT, 5G & Connectivity, Passenger Experience & Journey Planning, Ticketing & Payments, Telematics & Navigation Systems, Data Services & Cloud, Digital twins & predictive maintenance, Mobility as a Service

Telent Technology Services Limited
Nigel Weldon
T: 07793220075
E: Nigel.Weldon@telent.com
W: www.telent.com
Our sectors: Road, Light or heavy rail
Our services: Cooperative systems & CAM, IoT, 5G & Connectivity, Traffic Management, Data Services & Cloud, Digital twins & predictive maintenance, Cybersecurity, Asset management

The Hub
Jim Harrison
T: 07713 189 490
E: jim@thehub.co.uk
W: www.thehub.co.uk
Our sectors: Integrated Transport, All modes, Ticketing & Payments, Data Services & Cloud, Passenger Experience & Journey Planning, Mobility as a Service,

Theoremus
Matt Kendrick
T: 07858 411 891
E: mkendrick@theoremus.com
W: www.theoremus.com
Our sectors: Bus or Coach, Shared Mobility, Integrated Transport
Our services: IoT, 5G & Connectivity, Ticketing & Payments, Digital twins & predictive maintenance, Mobility as a Service

Tim Rivett Consulting
Tim Rivett
T: 07479 950850
E: tim@timrivett.co.uk
W: www.timrivett.co.uk
Our sectors: Bus or Coach, Active Travel & Micromobility, Shared Mobility, Integrated Transport
Our servicess: Demand responsive transport, Cooperative systems & CAM, IoT, 5G & Connectivity, Passenger Experience & Journey Planning, Traffic Management, Telematics & Navigation Systems, Data Services & Cloud, Digital twins & predictive maintenance, Mobility as a Service

Total Transportation Consultants Ltd
Jorgen Pedersen
T: 07912 631 210
E: totaltransportationconsultants@gmail.com

Trainline
Archie Whyte
T: +44 7890 598707
E: Archie.whyte@thetrainline.com
W: www.thetrainline.com
Our sectors: Integrated Transport, Light or heavy rail, other – Rail Reform, GBR, Growth
Our services: Demand responsive transport, Passenger Experience, Journey Planning, Ticketing & Payments

Transit App
Mike Evans-Ford
T: 07803366603
E: mike@transit.app
W: www.transitapp.com
Our sectors: Integrated Transport, Bus or Coach, Active Travel & Micromobility, Shared Mobility
Our services: Mobility as a Service, Passenger Experience & Journey Planning, Ticketing & Payments

Transmarche Metro
Ray Chapman
Telephone: +44 7920 867344
Email: ray.chapman@transmanche.com
Website: www.transmanche.com
Our sectors: Bus and Coach Active Travel Integrated Transport
Our services: Ticketing & payments Passenger experience & journey planning

Transport Associates
Nigel Wall
T: 07802 204759
E: nigel.wall@shadow-creek.biz
W: www.transport-associates.net
Our sectors: Road, Bus or Coach, Active Travel & Micromobility, Shared Mobility, Parking, Integrated Transport, Freight, Logistics or Maritime, Drones or UAVs, Light or heavy rail
Our services: Tolling or road user charging, Enforcement, Demand responsive transport, Cooperative systems & CAM, IoT, 5G & Connectivity, Passenger Experience & Journey Planning, Ticketing & Payments, EV & Charging technology, Traffic Management, Telematics & Navigation Systems, Data Services & Cloud, Digital twins & predictive maintenance, Mobility as a Service, Associated Services, such as recruitment, communications or HR

Transport for Greater Manchester
Richard Dolphin
T: 0161 244 1800
E: Richard.Dolphin@tfgm.com
W: www.tfgm.com
Our sectors: Road, Bus or Coach, Active Travel & Micromobility, Shared Mobility, Parking, Integrated Transport, Freight, Logistics or Maritime, Drones or UAVs, Light or heavy rail
Our services: Demand responsive transport, Cooperative systems & CAM, IoT, 5G & Connectivity, Passenger Experience & Journey Planning, Traffic Management, Telematics & Navigation Systems, Data Services & Cloud, Digital twins & predictive maintenance, Mobility as a Service, Associated Services, such as recruitment, communications or HR

Transport for London
Irfan Shaffi
T: 020 3054 2721
E: irfanshaffi@tfl.gov.uk
W: www.tfl.gov.uk
Our sectors: All modes (except Drones/UAVs currently)

Transport for West Midlands

Transport for West Midlands part of West Midlands Combined Authority
Through initiatives like the Future Transport Zone, TfWM (part of the West Midlands Combined Authority) is at the cutting-edge of transport research and development, including autonomous vehicles, batteries and smart ticketing. As host of the 2027 ITS World Congress at Birmingham's NEC, TfWM is leading the UK's planning for this prestigious global event.

Chris Lane
T: 0121 214 7022
E: chris.lane@tfwm.org.uk
W: www.tfwm.org.uk
Our sectors: Road, Bus or Coach, Active Travel & Micromobility, Shared Mobility, Parking, Integrated Transport, Freight, Logistics or Maritime, Drones or UAVs, Light or heavy rail
Our services: Tolling or road user charging, Enforcement, Demand responsive transport, Cooperative systems & CAM, IoT, 5G & Connectivity, Passenger Experience & Journey Planning, Ticketing & Payments, EV & Charging technology, Traffic Management, Telematics & Navigation Systems, Data Services & Cloud, Digital twins & predictive maintenance, Mobility as a Service, Associated Services, such as recruitment, communications or HR

Transport Logic Limited
Mike Hayward
T: mike.hayward@transportlogic.co.uk
E: info@transportlogic.co.uk
W: www.transportlogic.co.uk
Our sectors: Roads only
Our services: Technical and Management Consultancy services associated with Electronic Toll Collection (ETC) and Road User Charging (RUC), Advanced Traffic Management Systems (ATMS)

Transport Research Laboratory (TRL)
James Long
T: +44 (0)1344 770434
E: jlong@trl.co.uk
W: www.trl.co.uk
Our sectors: Road, Bus or Coach, Active Travel & Micromobility, Shared Mobility, Parking, Integrated Transport, Freight, Logistics or Maritime, Drones or UAVs, Light or heavy rail, All modes, Other
Our services: Enforcement or road safety, Cooperative, systems & CAM, Traffic Management, Traffic Management, Asset management

Transport Scotland
Stephen Davies
T: 0141 272 7947
E: stephen.davies@transport.gov.scot
W: www.transport.gov.scot
Our sectors: Road, Active Travel & Micromobility, Integrated Transport, Light or heavy rail
Our services: Enforcement, Cooperative systems & CAM, IoT, 5G & Connectivity, Passenger Experience & Journey Planning, Ticketing & Payments, EV & Charging technology, Traffic Management, Data Services & Cloud, Digital twins & predictive maintenance, Mobility as a Service

Trevor Ellis Consulting
Trevor Ellis
T: 07796 424363
E: trevor@trevorellis.co.uk
W: www.trevorellis.co.uk
Our sectors: Road
Our services: Tolling or road user charging, Enforcement

Uber Transit

UBIPOS UK
George Ye
T: 07531 627286
E: george.ye@ubipos.co.uk
W: www.ubipos.co.uk
Our sectors: Road, Bus or Coach, Active Travel & Micromobility, Shared Mobility, Parking, Integrated Transport, Drones or UAVs
Our services: Cooperative systems & CAM, IoT, 5G & Connectivity, EV & Charging technology, Telematics & Navigation Systems, Mobility as a Service

Unicard
Sean Dickinson
T: 01202 850810
E: sales@unicard-uk.com
W: www.unicard-uk.com
Our sectors: All Modes
Our services: Tolling or road user charging, Demand responsive transport, Passenger Experience & Journey Planning, Ticketing & Payments, Mobility as a Service, Associated Services, such as recruitment, communications or HR, Other

University of Leeds
Oliver Carsten
T: 0113 343 5348
E: o.m.j.carsten@its.leeds.ac.uk
W: www.its.leeds.ac.uk
Our sectors: Road, Bus or Coach, Active Travel & Micromobility, Shared Mobility, Parking, Integrated Transport, Freight, Logistics or Maritime, Light or heavy rail
Our services: Tolling or road user charging, Enforcement, Demand responsive transport, Cooperative systems & CAM, IoT, 5G & Connectivity, Passenger Experience & Journey Planning, EV & Charging technology, Traffic Management, Telematics & Navigation Systems, Digital twins & predictive maintenance, Mobility as a Service

University of Southampton
Simon Blainey
T: (0)23 8059 2834
E: t.j.cherrett@soton.ac.uk
W: www.trg.soton.ac.uk
Our sectors: Road, Bus or Coach, Active Travel & Micromobility, Shared Mobility, Integrated Transport, Freight, Logistics or Maritime, Drones or UAVs, Light or heavy rail
Our services: Demand responsive transport, Cooperative systems & CAM, Passenger Experience & Journey Planning, Traffic Management, Digital twins & predictive maintenance, Mobility as a Service

University of Warwick
Siddartha Khastgir
T: 024 7615 1528
E: S.Khastgir.1@warwick.ac.uk
Our sectors: Road, Bus or Coach, Integrated Transport, Freight, Logistics or Maritime
Our services: Cooperative systems & CAM, Safety

UTAC Millbrook
Simon Rowlands
E: simon.rowlands@utac.com
W: www.utac.com
Our sectors: Road, Bus or Coach, Parking, Integrated Transport, Freight, Logistics or Maritime, Drones or UAVs
Our services: Tolling or road user charging, Enforcement, Cooperative systems & CAM, IoT, 5G & Connectivity, Passenger Experience & Journey Planning, EV & Charging technology, Telematics & Navigation Systems, Digital twins & predictive maintenance

Valerann UK
Olga Gonzalez
T: +44 20 8133 7691
E: olga.gonzalez@valerann.com
W: www.valerann.com
Our sectors: Road, Integrated Transport, Other
Our services: Data Services & Cloud

Verra Mobility
Oliver Bain
T: +447534862803
E: Oliver.Bain@VerraMobility.com
W: www.verramobility.com
Our sectors: Road, Bus or Coach, Shared Mobility, Parking, Integrated Transport
Our services: Tolling or road user charging, Enforcement, Ticketing & Payments, Traffic Management

VESOS
Danny Woolard
T: +44 7880 007415
E: danny.woolard@vesos.co.uk
W: www.vesos.co.uk
Our sectors: Road
Our services: Enforcement or road safety, Cooperative systems & CAM, Data Services & Cloud

Via Transporation UK
Samuel Griffiths
T: 07736068351
E: samuel.griffiths@ridewithvia.com
W: www.ridewithvia.com
Our sectors: Bus or Coach, Shared Mobility, Integrated Transport
Our services: Demand responsive transport, Passenger Experience & Journey Planning, Ticketing & Payments, Mobility as a Service

VivaCity
Vitor Kono
E: vitor.kono@vivacitylabs.com
W: www.vivacitylabs.com
Our sectors: Road, Bus or Coach, Active Travel & Micromobility, Shared Mobility, Integrated Transport
Our services: Demand responsive transport, Traffic Management, Data Services & Cloud, Mobility as a Service

WeAreDots
Juris Vilder
T: 371 67509912
E: info@wearedots.com
W: www.wearedots.com
Our sectors: Road
Our services: Tolling or road user charging, Enforcement, Traffic Management, Data Services & Cloud

Westcotec
Olly Samways
T: 01362 853124
E: olly.samways@westcotec.co.uk
W: www.westcotec.co.uk
Our sectors: Road, Active Travel, Parking, Integrated Transport, Freight & Logistics
Our services: Road safety, Traffic Management, Data Services & Cloud, Asset management

White Willow Consulting
Andy Graham
T: 07979 248298
E: andy@whitewillow.Biz
W: www.whitewillow.biz
Our sectors: Road, Active Travel & Micromobility, Parking, Freight, Logistics or Maritime
Our services: Tolling or road user charging, Enforcement, Cooperative systems & CAM, IoT, 5G & Connectivity, Ticketing & Payments, EV & Charging technology, Traffic Management, Telematics & Navigation Systems, Data Services & Cloud, Digital twins & predictive maintenance

WJ Group
Tom Howarth
T: 07970 907898
E: tom.howarth@wj.uk
W: www.wj.uk

Worldline
Martin Howell
T: 07855 981912
E: martin.howell@worldline.com
W: www.worldline.com
Our sectors: Integrated transport, Light and heavy rail, Other – rail operations, rail retail
Our services: Passenger experience and journey planning, Data Services and Cloud, Ticketing and Payments, Mobility as a Service, Payments processing

E WSP Group Limited
Through excellent technical delivery and leadership, WSP's Intelligent Infrastructure team are established global influencers in net zero, vision zero and digitally enabled design. Our growing range of capabilities allows us to play a leading role in enabling Future Ready, decarbonised and digitally transformed transportation, satisfying the ever-evolving needs of society.

Catherine Whitfield
E: Catherine.Whitfield@wsp.com
W: www.wsp.com
Our sectors: Road, Active Travel & Micromobility, Shared Mobility, Parking, Integrated Transport, Freight, Logistics or Maritime, Drones or UAVs, Light or heavy rail
Our services: Tolling or road user charging, Enforcement, Cooperative systems & CAM, IoT, 5G & Connectivity, Passenger Experience & Journey Planning, Ticketing & Payments, EV & Charging technology, Traffic Management, Telematics & Navigation Systems, Data Services & Cloud, Digital twins & predictive maintenance, Mobility as a Service

E Yunex Traffic
Yunex Traffic UK is a global leader in intelligent traffic systems, offering innovative solutions for adaptive traffic management & strategic control, enforcement and smart city mobility. With a rich history and cutting-edge technology, Yunex Traffic transforms urban mobility, enhancing safety, efficiency, and sustainability for cities and communities worldwide.

Matthew Vincent
T: 07808 822258
E: matthew.vincent@yunextraffic.com
W: www.siemenstraffic.com
Our sectors: Road, Active Travel & Micromobility, Shared Mobility, Parking, Integrated Transport, Freight, Logistics or Maritime
Our services: Tolling or road user charging, Enforcement, Cooperative systems & CAM, IoT, 5G & Connectivity, Passenger Experience & Journey Planning, EV & Charging technology, Traffic Management, Data Services & Cloud, Digital twins & predictive maintenance, Mobility as a Service

Zircon Software
Dan Russell
T: 07825036877
E: dan.russell@zirconsoftware.co.uk
W: www.zirconsoftware.co.uk
Our sectors: Road, Bus or Coach, Integrated Transport, Freight, Logistics or Maritime, Light or heavy rail
Our services: Enforcement or road safety, Passenger Experience & Journey Planning, Traffic Management, Data Services & Cloud, Digital twins & predictive maintenance, Asset management, Cybersecurity + Other software engineering, Artificial Intelligence

E Executive Member
Members and descriptions correct as of April 2025

A call for convergence: Maximising the benefits of ITS technology through innovative multi-use applications

The UK Government has set ambitious goals for a safer, more integrated transport network through the upcoming National Transport Strategy and Road Safety Strategy.

Victoria Curran
Marketing Executive
Jenoptik

John Piper
Sales & Marketing Director
Jenoptik

ITS technology plays a crucial role in achieving these objectives, but to fully realise its potential, legislative reform is needed—particularly in the Home Office Type Approval (HOTA) system, which governs technology used for law enforcement.

The increasing demand for ITS technology aimed at improving road safety, traffic management, and traffic flows has led to a multitude of single-purpose solutions across the network. Even though these systems are capturing rich data, the current restrictions of approvals can result in a fragmented use of resources and importantly budgets. In today's fast-paced, globally interconnected world, maximising value from investment has become a necessity, not a luxury.

In the example of speed cameras and HOTA, the possibility exists to retain the robustness of approval processes whilst enabling multi-use of infrastructure and technology assets. Where appropriate, this would provide multiple benefits and options for traffic data enrichment, and additional value for money for police, local authorities, highways agencies and road users could all be realised.

The use of ANPR based systems installed across the road network has demonstrably increased over the past ten years. We've seen the demand for security and surveillance data to improve public safety grow due to societal threats and pressures as well as a rise in market demands for robust ITS data to manage and improve traffic flows and emissions. One key trend shaping the current landscape is the need to optimise the use of these installations alongside the generation of Big Data.

In any given area you could find a network of enforcement systems for average speed, spot speed, speed on

green and red light. Many of these installations can capture ANPR data, video, and still images of traffic in addition to the enforcement data. If "convergence" was permitted under HOTA, this information could then be supplied to police forces for crime prevention, detection and surveillance as well as Big Data analysis.

Furthermore, the shared use of data presents a wealth of opportunities for other stakeholders. By providing rich ITS data, such as journey time, traffic flow statistics, origin/destination points, and local/average speed, highways agencies, local authorities, and other relevant parties can access a veritable trove of insights. This data could not only be made available in real-time but also as historical statistical data, offering invaluable information to inform decision-making and drive improvements.

In this dynamic environment, creative thinking and innovative approaches are paramount to unlocking the full potential of these technologies. As a result, we can expect to see an increasing number of collaborative efforts between public and private sectors, and other key stakeholders, to harness the power of advanced technology and maximize the value of limited investment budgets.

By providing rich ITS data, such as journey time, traffic flow statistics, origin/destination points, and local/average speed, highways agencies, local authorities, and other relevant parties can access a veritable trove of insights.

Commemorating transport innovation, learning from the past and looking to the future

This year, we are commemorating Railway 200, a celebration of 200 years of modern railways in the UK.

The birth of the modern railway transformed our country, boosting living standards and forming the foundation of the industrial revolution. At the heart of this was the harnessing of new technology to transform connectivity and boost economic growth.

Railway 200 is a celebration - but it should also act as a lesson. As we reflect on the past, we must also learn the lessons it can teach us for the future.

As we led the world then, we should be striving to do the same now. Transport technology has the power to transform journeys, open up new communities and improve lives.

I live in London and have seen first hand what the application of technology & innovation can do to improve our transport system. From the Oyster card to the plethora of journey planning apps, not to mention TfL's integrated network, one can see how much can be achieved with the necessary will and resources. It's surely time everyone in the UK had access to a modern, integrated transport system.

Rural mobility is a key challenge to which the Government must finally

face-up. It has been ignored by successive governments and after years of neglect by the Conservatives, rural transport is at rock bottom. Currently, half of the rural population live in areas in the bottom 10% of accessibility to public services. Whilst England lost 22% of its local bus provision in the last decade and over half of local roads have less than 15 years of structural life left.

This has serious consequences for those in rural communities. In my role as Transport Spokesperson, I often encounter people in rural communities with access to only two buses a day or facing train journeys too often plagued by delays and cancellations.

It's time we addressed such inequalities. Greater use of data, improving publicly available information for transport services and the implementation of Demand Responsive Transport all have their part to play in improving rural connectivity. Doing so is key to unlocking growth and improving living standards, across our most rural communities.

We must also harness the power of technology to make journeys better and easier.

A key part of this is simplifying and ticketing across the system. Rolling out integrated, pay-as-you-go services across the bus, rail and metro networks across the UK is vital to encouraging more users onto public transport and making transport more efficient.

The Netherlands, with their OVPay network show us what is achievable. Integrated pay as you go ticketing available across the whole country makes using the network simple, and allows individuals to travel with confidence knowing they have the best fare available.

Digital connectivity is also crucial. Reliable internet connections should be standard across our railways and, with the establishment of GBR, the Government now has the opportunity to give passengers what they have the right to expect. Improving network reception on the Underground and other Metro services is also vital and should be made a priority.

Paul Kohler MP
Liberal Democrat Spokesperson (Transport)

Sadly, however, there are concerns that on many of these issues potential improvements are being hindered by a lack of leadership, legislation and regulation.

It is clear, micromobility schemes have the power to widen access to public transport and improve connectivity. As I have seen in my own constituency of Wimbledon, on-demand bike hire schemes have an important role to play in connecting with public transport and decreasing journey times. However, inadequate regulation and failures of political leadership, means that the hire companies often behave with impunity, dividing communities by failing to properly manage where bikes are dropped off and how they are ridden.

To ensure micromobility schemes are safe and have support from local residents, the Government must legislate to create a proper regulatory framework for these schemes to function, whilst local government needs to take the lead in enforcing this new regime.

We also need to produce a robust framework for trials of driverless cars. Whilst legislation passed last year has helped lay the foundation, the Government must continue to support the sector and develop a framework to allow the further development of the technology within the UK. With driverless taxis already operating in San Francisco the UK needs to catch up.

Railway 200 serves as a powerful reminder of Britain's pioneering spirit in transport innovation. As we celebrate this legacy, we must also recognise the urgent need to go back to the future by applying the same forward-thinking approach to today's challenges.

As the Government embarks upon a series of reforms to the transport sector, the Liberal Democrats believe we now have the best opportunity in generations to harness the power of technology and innovation to radically improve our transport network - both public and private. Britain has a burgeoning transport technology industry, and the Government should be attempting to grow and support these companies by placing the application of technology at the heart of its reforms. If we do so, we can make Britain a global leader in transport technology once more, rather than leaving us meandering along in the slow lane.

Against the backdrop of the Government's forthcoming Integrated National Transport Strategy, an interview with senior leaders at Netcompany looks at how technology can ensure people are at the centre of transport design, construction and operations.

How digitisation can pave the way to smarter, safer roads

Caroline Hildreth
Principal, Netcompany

David Hildyard
Partner, Netcompany

End-to-end IT consultancy Netcompany partnered with the Danish Roads Directorate on its digital transformation, helping create a safer, smarter transport system for citizens. As the UK eagerly anticipates details of the Transport Secretary's Integrated National Transport Strategy, Netcompany's transportation leads, David Hildyard (Partner) and Caroline Hildreth (Principal), are interviewed about how digitisation can help the UK achieve its multi-modal transportation goals.

WITH THE GROWING NEED FOR SMARTER, MORE EFFICIENT TRANSPORTATION SYSTEMS, WHICH TECHNOLOGIES DO YOU BELIEVE PRESENT THE BIGGEST OPPORTUNITIES FOR INNOVATION AND EFFICIENCY IN THE TRANSPORT SECTOR?

Caroline: One of the most promising areas of development is with artificial intelligence (AI), which is rapidly advancing in capability at a time when the Department for Transport (DfT) is actively funding AI-enabled projects. AI can enhance network and traffic management, as well as improve cost efficiencies, which will be crucial given the nationwide squeeze on Government spending. Another major opportunity lies in leveraging data for decision-making in network and traffic management. This includes utilising third-party data, breaking down data silos and promoting data sharing and accessibility. Additionally, varying levels of taxation and permitting for EVs, hybrids and conventional vehicles, along with the expansion of ULEZ-style systems will require sophisticated dynamic road user

charging technologies, that in turn can help fund transport infrastructure.

For AI and data-driven decision-making to work, transparency and collaboration will be crucial. How realistic is data sharing within the context of transport infrastructure?

David: It's certainly a challenge – but not one that's unique to the transport sector. At Netcompany, we assist both public and private organisations across Europe with varying data requirements. A key priority in all our projects is striking the right balance between making data accessible and ensuring it remains secure. The reality is that not all data is suitable for sharing, so organisations need robust data governance practices. By classifying and labelling sensitive data, they can effectively distinguish between what can be shared and what needs to be protected, ensuring data sharing happens in a secure and responsible manner.

HOW IS NETCOMPANY WORKING WITH NATIONAL HIGHWAYS TODAY?

Caroline: Our team has been supporting National Highways for several years in a number of areas – one of which is by providing architectural guidance and governance for their ongoing digital transformation. We work closely with their technology and data teams to ensure technical changes and innovations are strategically aligned, and to advise on projects and present solutions. This means we can offer independent input and ensure smart decisions are made as projects evolve. Additionally, we manage National Highways new consolidated service management approach, focusing on governance and assurance across both information and operational technology. This support helps National Highways operate efficiently and securely, particularly in relation to critical national infrastructure like smart motorways.

WHAT ARE THE KEY THINGS SENIOR LEADERS CAN DO IN THIS SPACE TO SUPPORT AND EMBRACE INNOVATION?

Caroline: Innovation is about being curious and about taking risks. Senior leaders should therefore aim to create cultures that encourage small-scale initiatives and experiments that can show proof of value prior to further investment and expansion. They should also aim to create an environment that supports a fail-fast mindset. Welcoming diversity of thought is also crucial. This ensures that different voices are heard and represented, reflecting the varied users of our transport network. As part of that, leaders should invest in new and young talent to develop a workforce that's able build for the UK's future transport needs.

WHAT HAS NETCOMPANY WORKED ON ELSEWHERE THAT COULD PROVIDE A BLUEPRINT FOR INNOVATION IN THE UK'S TRANSPORTATION SECTOR?

David: Netcompany has implemented several innovative solutions in Scandinavia that could serve as models for the UK. Our Vinterman tool optimises winter road management for the Danish Road Directorate, managing 12,000 routes and 1,400 vehicles using intelligent weather and road data modelling. TEMPO enhances road safety and efficiency by mapping real-time car data every 15 minutes to identify congestion spots and assist with socio-economic impact assessments. While Sund & Bælt is a cloud-based tolling platform that enables seamless bridge crossings between Denmark and Sweden, integrating payments and invoicing to improve user experience and reduce administrative burdens.

We see huge opportunities in the UK for the application of such technologies on our roads in the near future and believe Netcompany can be a powerful partner in delivering them.

Case studies

Vinterman

Netcompany developed Vinterman for the Danish Road Directorate to coordinate winter road management. Covering 12,000 routes with 24/7 readiness, the system incorporates 1,400 vehicles and 15,000 pieces of equipment. Using intelligent weather and road data modelling, Vinterman optimises callouts and supports 15,000 businesses by managing service level agreements, billing and inspections.

TEMPO

Netcompany's TEMPO system models and maps "floating" car data every 15 minutes for the Danish Road Directorate. TEMPO was designed to identify areas of reduced mobility and heightened congestion, providing detailed analysis on the causes, evolution and potential solutions of a given problem. It also provides socio-economic impact assessments, enabling improved political decision-making.

Sund & Bælt

Netcompany developed a tolling and self-service platform for Sund & Bælt, easing bridge crossings between Denmark and Sweden. The cloud-based solution integrates with existing business applications, improving user interfaces for employees and customers. It handles payments, invoicing and bank integration, saving time and reducing administrative burdens.

Uniting what's next in traffic.

We are connecting the dots of a mobility revolution.

A revolution that is transforming our roads, towns, and cities.

Our innovative, forward-looking transport solutions, mobility ecosystems and services make mobility safer, more efficient and more sustainable.

It's time to make the world a better, safer place. We are ready. Are you?

uk.yunextraffic.com

YUNEX TRAFFIC

Reflections on a year as CEO

My first year as CEO of Connected Places Catapult has been one of learning, growth and inspiration. Every day over the last 12 months I have seen the potential of game-changing innovations led by the businesses and local leaders we support, as well as our world-class academic based here in the UK.

This is an exciting time to be leading an organisation that is all about innovation-led change. As the new Government settles its priorities and spending plans, our role is to ensure that innovation is at the heart of all that they do - not just an additional spending line, but integrated into the planning, building and running of our places.

Our mission is to make that easier so that we bridge the gap between great ideas that might otherwise easily fail, and the marketplaces where they could be in demand.

The challenge of course is that innovating in transport, the built environment and cities is difficult. Regulation can get in the way, spending plans can change and some innovations, like the use of new fuel, need whole system change.

Yet in the countless conversations I have had over the past year, one theme has emerged time and again: the value of a broad, integrated perspective that is focussed on getting the basics right. This is particularly true when it comes to transport.

UNLOCKING INNOVATION IN TRANSPORT

Securing new funding, navigating complex regulations, or scaling innovations in real-world environments are persistent hurdles for innovators. This is where we consistently make a difference.

In rail for example, over the past three years we have established the UK's first Station Innovation Zone at Bristol Temple Meads - a testing ground for next-generation rail technologies. In partnership with Network Rail, we have supported 30 SMEs and 11 technology trials to create a greener, safer, more accessible station. Innovations include tailoring customer information to passengers' needs (if they have a disability for example) and adapting it at times of disruption, or incorporating sustainability into the station using carbon absorbing materials in station furnishings, while in keeping with the listed status of the building.

The UK has a strong track record on transport integration. Transport for London is a global exemplar in integrating multiple transport modes and using data to improve the passenger experience via contactless payments and live travel information.

HS2 is set to revolutionise rail travel in the UK. Now in its seventh iteration, our HS2 Accelerator Programme has supported 31 companies which have raised over £240 million in investment and funding, created over 430 new jobs, and saved HS2 £50 million in efficiency

savings. Our current cohort is tackling three innovation challenges: automating asset management, maximising site productivity, and future-proofing operations.

Across the wider transport sector we are supporting the Government's Transport Research Innovation Grants (TRIG) and have delivered over 400 projects to bridge the proof-of-concept funding gap for UK companies and de-risk emerging technologies – from expanding ocean data coverage for maritime operations, to deploying drones for use in deliveries and logistics, and better connecting rural communities.

TOWARDS GREATER INTEGRATION

The UK has a strong track record on transport integration. Transport for London is a global exemplar in integrating multiple transport modes and using data to improve the passenger experience via contactless payments and live travel information.

Yet there is more to be done across the country to reduce inefficiencies, expand real-time data sharing, and improve journey planning and integrated ticketing.

Currently, poor interoperability hinders multi-leg journeys, but open data standards can help bridge these gaps. So too will better regional coordination for emerging transport modes like micromobility, as well as greater autonomy over bus services at the local level to improve interoperability.

Decarbonisation is a major focus for us too. The UK needs be serious about the transition to zero emission vehicles, not just for cars, but buses, boats and trains.

Take heavy goods vehicles (HGVs) for example. Almost 90% of domestic goods transported in the UK in 2022 were moved by road – the vast majority of which by HGVs. These vehicles currently produce approximately 19% of all UK domestic transport greenhouse gas emissions.

Our Zero-Emission HGV & Infrastructure Demonstrator programme, supported by Innovate UK and the Department for Transport, is helping to develop the infrastructure for freight operators to collaborate on new technologies, while also breaking down barriers to scalability for solutions like intelligent charging point booking systems. The programme represents a public investment of £200 million, match-funded by industry, and is deploying the first large (40+ tonne) zero-emission HGVs in significant numbers.

Erika Lewis, CEO, Connected Places Catapult

WHAT NEXT FOR THE CONNECTED PLACES CATAPULT?

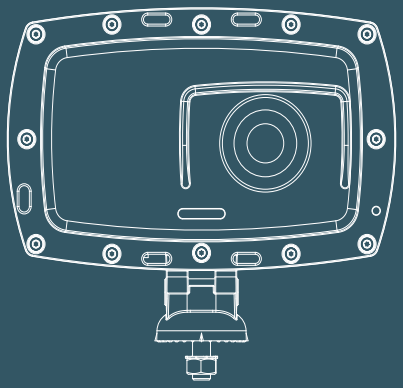
Over the coming year we will be consolidating our strengths in transport. This will include a focus on decarbonisation and sustainability, efficiency and safety, and the passenger experience.

But if there is one thing I have learned most powerfully in my first year as CEO, it is that innovation is a team game. We can't do this on our own, and nor should we.

That is why I am excited about our journey ahead and the opportunities we have to work with partners across government, business and academia to find the right partners, test and scale the right solutions, and take balanced risks that unlock the benefits of innovation across the UK.

AGD®

SAFER
GREENER
MORE EFFICIENT



AGD650 NEXT-GENERATION DETECTION

AI ENHANCED VEHICLE DETECTION
Accurate classification of multiple vehicles for better signal timing adjustments, ensuring smooth, multi-modal traffic management.

MULTIPLE APPLICATIONS
Suitable for applications such as stop-line detection, SCOOT, all red, bus lanes, indicative turn demands and MOVA.

SMART DATA INTEGRATION
Seamlessly integrates with ITS platforms for real-time traffic insights and smarter signal control.

EASY INSTALLATION
Using WiFi AGD Touch-setup for quick and easy installation, with customisable detection fields to suit your requirements.

Contact AGD to see how the AGD650 can work for you
www.agd-systems.com

Ai INSIDE

FIND OUT MORE

THE TRAFFIC GROUP

Driving innovation: How the Bus Centre of Excellence is shaping the future of bus services

Stelios Rodoulis
Head of Centre
Bus Centre of Excellence

As England seeks to modernise and decarbonise its public transport systems, innovation in the bus sector has never been more crucial.

This effort to reform buses includes the Bus Centre of Excellence (BCoE) – a national hub funded by the Department for Transport (DfT) and hosted by the Chartered Institution of Highways and Transportation (CIHT).

Established through the National Bus Strategy, BCoE supports innovation by equipping bus professionals with the knowledge, skills and networks needed to design and deliver high-quality, inclusive bus services.

A key focus of BCoE is supporting professional development. It offers a wide range of free and discounted training opportunities, from introductory courses in bus scheduling to modules on inclusive design, stakeholder engagement, and more. These are available through the CIHT Learn platform, and are aimed at creating a more confident and capable workforce – one that's ready to adapt to new technologies and approaches.

BCoE also plays a vital convening role. Its networks bring together stakeholders from local authorities, bus operators and suppliers to explore shared challenges and exchange ideas. For instance, the Zero Emission Buses Network, held in partnership with First Bus, offers monthly sessions where professionals can ask questions and share real-world experiences and challenges around decarbonisation. Similarly, the newly setup Franchising Network will support the growing number of transport authorities exploring new models of bus operations.

Through its events, forums and flagship conferences, BCoE helps to spotlight emerging trends and practical solutions, and amplify examples of best practice from across the country. In doing so, it promotes a culture of continuous learning and cross-sector collaboration – essential ingredients for meaningful innovation. BCoE highlights best practice through its webinars, for example the Solent Breeze App which won the CIHT & Winvic Construction Collaboration Award in 2024. Jointly with ITS UK, BCoE also hosted an in-person event focused on Digital Demand Responsive Transport, showcasing case studies and exploring different operational models.

BCoE membership is free and open to all. With a growing network of bus professionals already involved, BCoE is helping the sector to operate more intelligently, inclusively and sustainably.

Find out more about BCoE:
www.buscentreofexcellence.org.uk

Alastair King of Clearview Intelligence explains how an AI video analytics solution is the latest technology adding safety, environmental, and transport management benefits to an integrated ITS product suite.

Connected Vision

Alastair King
Head of Product Management
Clearview Intelligence

Given that you are reading this article in a publication dedicated to Intelligent Transport Systems, you likely already appreciate that technology delivers solutions for the transport sector more quickly, affordably and efficiently than infrastructure improvements. And if you're not already convinced, you surely will be when you've read all the articles in here.

However, technological solutions must now integrate seamlessly. With so much technology underpinning our transport networks, solutions must work together to maximise value for transport operators.

That's something we have very much embraced at Clearview Intelligence. Although many know our company for its world-leading solar road studs, which both improve safety and deliver emission-free lighting solutions, there is a huge range of hardware we have developed which integrate together to enhance our technology solutions.

AN INTEGRATED APPROACH

Building a seamless, safe, and sustainable transport system requires technology that goes beyond simply managing vehicle flow. Connex, our modular hardware platform, is designed to address modern transport challenges through three key modules: Traffic, Active Travel and Multi-Modal Monitoring.

Together, these modules create a fully integrated approach to urban mobility, supporting roads, highways, cycle lanes, pathways, and mixed-use spaces. Designed for flexibility, the platform allows users to deploy single or multi-layered solutions, ensuring that transport networks can adapt to evolving needs.

Crucially, Connex is built for seamless integration. It has the hardware capability of interpreting data from a multitude of different sensors, enabling smooth interaction across different transport technologies. This ensures interoperability with both existing and emerging systems, making it a future-proof solution that evolves alongside infrastructure developments.

To meet diverse transport requirements, users can select from a range of advanced sensors and technologies, including lidar for precision mapping, radar for real-time speed detection, loops for high-traffic monitoring, and AI-powered video analytics for in-depth behavioural insights. This adaptability allows for tailored transport solutions that enhance efficiency, safety, and sustainability across the network.

AI-POWERED VIDEO ANALYTICS - CONNEX VISION

The latest function added to the suite is 'Connex Vision,' which uses existing industry-standard cameras with AI-driven analytics, providing detailed insights into traveller behaviour for improved decision-making.

Connex Vision offers multi-modal traffic classification, identifying up to eight traffic modes, including pedestrians, cyclists, cars, LGVs, HGVs, articulated HGVs, buses and motorbikes. This delivers a comprehensive view of all road users, ensuring accurate and reliable traffic monitoring across diverse transport modes. Video monitoring also addresses key challenges faced by traditional loop-based systems, particularly their inability to detect non-metallic objects, as well as being non-invasive, so reducing installation time and costs.

With object-by-object detection, Connex Vision collects granular data on traffic flow, user behaviour and safety risks helping organisations make informed decisions based on detailed insights. And don't worry about personal data - real-time blurring of sensitive information, such as faces, number plates and cyclist identifiers ensure GDPR compliance.

REAL-TIME DETECTION AND ALERTS

Connex Vision provides not only general traffic monitoring but also real-time safety alerts. The system uses an internal mechanism to interpret certain conditions and a contact closure output which can be used to identify critical events such as wrong-way drivers, pedestrians in restricted areas, or other hazardous behaviours - all through a single camera. For even greater safety, an additional camera can be deployed

to improve monitoring of complex junctions or high-risk locations. A notable example is floating bus stops, where cyclists and pedestrians may face potential conflicts. In such cases, Variable Message Signs (VMS) can be automatically triggered to issue warnings, alerting road and path users to potential hazards.

Collaborating with local authorities, Connex Vision is deployed to monitor cycle paths and pedestrian walkways. The system tracks the movement of cyclists and pedestrians, helping control room staff assess pathway capacity and ensure safety. This data-driven approach allows for informed decision-making on capacity management and infrastructure improvements, ensuring that transport networks continue to meet growing demand while prioritising safety.

Video Analytics can contribute to bus priority schemes, which play a role in reducing congestion and improving public transport efficiency. We are actively working with key network operators to explore how Connex Vision can support traffic management systems and enhance public transport flow.

LONG-TERM EFFECTIVENESS

With continuous training, the system adapts to evolving traffic patterns, emerging transport modes, and innovative technologies, maintaining effectiveness as cities grow and transport needs become more complex. It not only provides real-time monitoring but also gathers valuable data for long-term planning. This data supports infrastructure investment decisions and guides transport strategies to meet future demands.

Seamless integration with legacy systems ensures easy adoption without costly overhauls, making Connex a future-proof solution for transport management. Backed by 50 years of expertise, it is driving safer, greener, and smarter transport networks.

Seamless integration with legacy systems ensures easy adoption without costly overhauls, making Connex a future-proof solution for transport management. Backed by 50 years of expertise, it is driving safer, greener, and smarter transport networks.

Empowering the next generation: Building a more inclusive & sustainable mobility industry

Anna Filby
Founder & CEO
Young Mobility Network

The transport sector is at a pivotal moment, facing challenges like digital transformation, sustainability, and urban mobility. As the industry evolves to meet these demands, it is vital to ensure young professionals have the skills, opportunities, and support to drive its future.

However, many struggle to enter the sector due to limited networks, outdated hiring practices, and a lack of structured career development pathways.

YOUNG MOBILITY NETWORK'S ROLE

At the Young Mobility Network (YMN), we are tackling these challenges. Since our founding in 2020, YMN has grown into a vibrant community of over 700 young professionals across Germany and the UK. Through mentorship, networking, and skills development, we help individuals build meaningful careers in mobility. Supported by ITS UK and Women in Transport, our UK expansion has strengthened our ability to connect

young professionals with industry leaders. By 2025, we plan to further expand our UK reach with a team of Regional Hub Managers, including Olivia Morgan, Beth Fallon, and Liberatus Fusi-Akpodono, alongside Anna Filby, Founder and CEO.

INSIGHTS FROM INDUSTRY: WHAT NEEDS TO CHANGE?

As a bottom-up organisation, YMN is driven by its members. We've identified several challenges young professionals face, such as limited career advancement opportunities. To better understand these needs, we held a workshop at Steer in September 2024 and a roundtable at Interchange In Manchester in March 2025. These discussions revealed key areas for change:

ENGAGING AND RETAINING YOUNG TALENT

Young professionals thrive when they have access to mentorship and networking opportunities. Formal mentorship programmes, combined with a culture of diversity and psychological safety, can increase engagement and innovation. Encouraging cross-team collaboration and reverse mentoring will also help young professionals contribute fresh ideas while learning from more experienced colleagues.

THE IMPORTANCE OF NETWORKS LIKE YMN

YMN plays a crucial role in addressing these challenges by offering a supportive space for young professionals to connect, learn, and grow. In 2025, we aim to expand our UK regional hubs and launch an international mentoring program to help early-career professionals navigate the mobility sector. Our partnerships with ITS UK and Women in Transport will further advocate for inclusive talent development strategies.

RETHINKING HIRING AND EARLY-CAREER SUPPORT

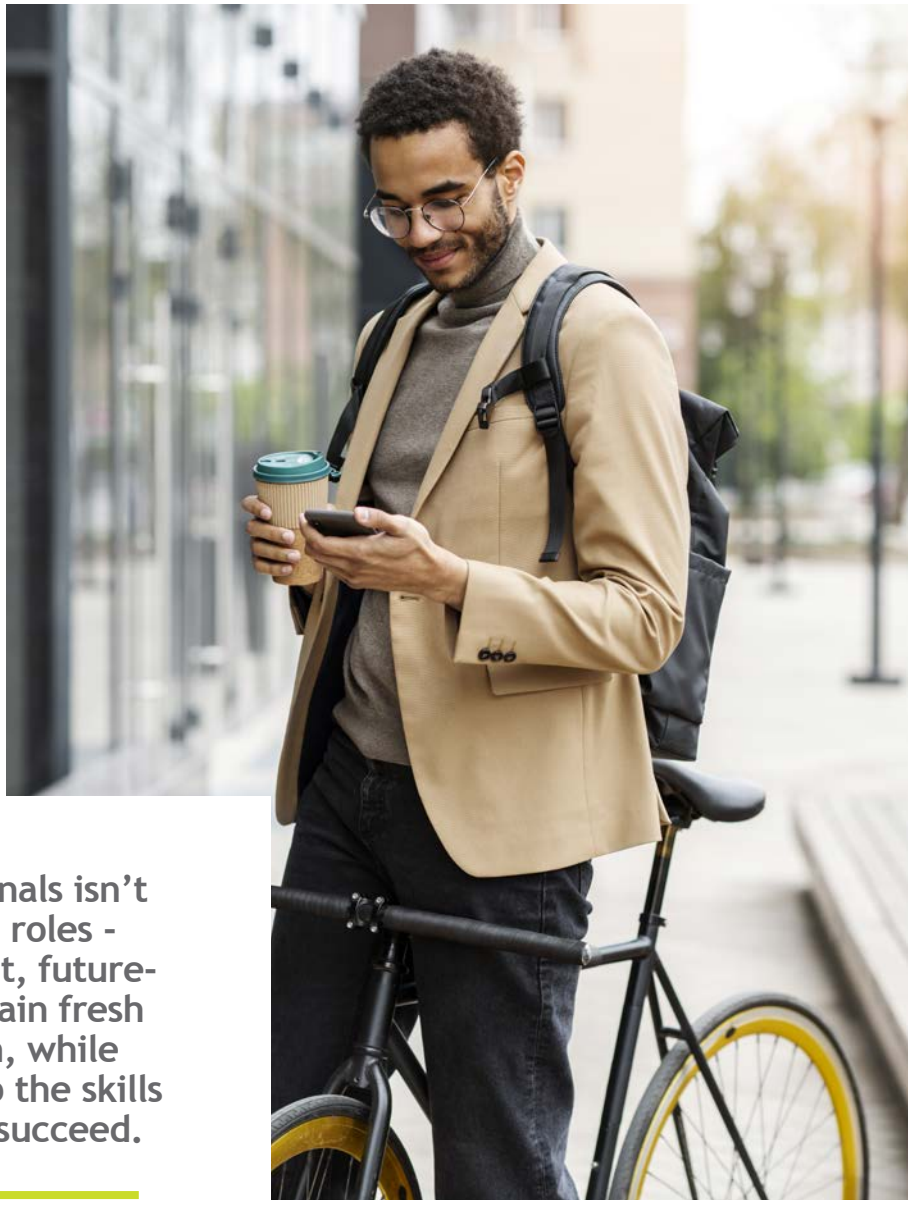
One significant area for improvement is the hiring process. Employers should focus on potential rather than just experience, as many young professionals possess transferable skills. Offering structured training opportunities can unlock their full potential. Job descriptions should also be reworked to remove jargon and overly rigid requirements, allowing early-career professionals to apply. Inclusive hiring processes, with diverse interview panels and clear career pathways, can help attract and retain a broader talent pool.

WHY THIS MATTERS

Investing in young professionals isn't just about filling entry-level roles - it's about creating a resilient, future-ready industry. Employers gain fresh perspectives and innovation, while young professionals develop the skills and networks they need to succeed. By supporting and mentoring the next generation, we can build a smarter, more sustainable transport future.

Find out more about the Young Mobility Network:

www.young-mobility-network.com



Investing in young professionals isn't just about filling entry-level roles - it's about creating a resilient, future-ready industry. Employers gain fresh perspectives and innovation, while young professionals develop the skills and networks they need to succeed.

Harnessing technological innovation in mobile its to achieve a seamless, safe and low carbon transport system

Ben Parsons
Business Development Director
SRL Traffic Systems

Constant technological innovation is the defining feature of our sector. Rapid technological advances expand the potential of our products to facilitate highways that are increasingly safe, efficient and sustainable.

This capability of technology to promote improvement is particularly apparent in the mobile ITS sector, where a new generation of products including portable and temporary traffic signals and variable message signs (VMS) are leading the way.

National Highways, local councils and the traffic management contractors they employ face a series of enduring issues in the delivery of the UK's transport system and roadworker safety remains of paramount importance.

Health and Safety Executive road safety statistics indicate that up to a third of all road traffic accidents involve someone who is at work. Meanwhile, according to the Stamp It Out campaign to end roadworker abuse, in 2023 a total of 2,307 road workers reported being either verbally or physically assaulted whilst working.

Improving environmental sustainability is of course crucial and will doubtless be high on the agenda of Secretary of State for Transport, Heidi Alexander, as she prepares to draw up the country's new Integrated Transport Strategy.

Road user experience continues to concern National Highways and local councils. Independent watchdog Transport Focus' 2023-4 Strategic Roads User Survey recently presented worrying statistics demonstrating a fall in journey satisfaction from 73% (2022-23) to 71%.

Meanwhile, staff shortages continue to characterise the traffic management sector. In November, officials from Northern Ireland's Department for Infrastructure reported that a lack of roadworkers is impeding the completion of road improvements across Belfast, with nearly a third of roles vacant.

The mobile ITS sector is working hard to develop new solutions designed to address the various issues in what

is undoubtedly a hugely challenging scenario for all involved.

A new generation of traffic signals are helping to promote road worker safety by minimising the amount of time they need to spend working in live traffic environments. Batteries are offering increasingly competitive run times, reducing the frequency of exchange, while remotely operated solutions facilitate off-site operation, even when signals are located in remote rural areas.

By minimising the frequency of site visits required, the new solutions minimise too the carbon emissions associated with roadworker transport. Indeed, SRL estimates that the deployment of REMOS, one of the first scalable remotely operated signal solutions, can save contractors in the region of 3,564kg CO2 per operative per annum no longer required on site.

Some new signals are compatible with solar technology, harnessing renewable energy and limiting the carbon footprint of roadworks projects.

And some remote products allow one operative to manage several sites, monitoring traffic flows and efficiently making interventions to prevent and eliminate bottlenecks, allowing reliable operation even in the face of frequent staff shortages.

Research shows that messages that can be read in a maximum of four seconds are best for road users, promoting ease of interpretation and speed of response. This knowledge formed the basis of a recent pioneering SRL project, where enhanced visibility signs featuring distinctive blue frames and white text against a black background were for the first time used as electronic billboards to present non-regulatory messages, improving the road user experience.

Yet for the industry to truly embrace the potential of these new solutions to create highways that are increasingly safe, sustainable and seamless, we need to take a more rigorous approach to quality standards to ensure that the traffic management products we use are of the highest possible quality.

The industry must work together if we are to effectively harness the many opportunities presented to us by the rapid and ongoing technological evolution that defines the ITS sector, effectively embracing innovation in the quest for safer and more efficient highways.

TOPAS (Traffic Open Products and Specifications) provides local authorities and traffic management contractors with a straightforward system via which they may verify traffic control and associated equipment against a set of stringent quality criteria.

The specifications are intended to be used to aid purchasers and whilst not mandatory, the requirement for registration may be required by individual purchasing contracts. But while the majority of local authorities and traffic management companies stipulate TOPAS registration in the purchase of permanent ITS, many still fail to do so when hiring portable and temporary equipment, compromising the safety, sustainability and efficiency of our roads.

The industry must work together if we are to effectively harness the many opportunities presented to us by the rapid and ongoing technological evolution that defines the ITS sector, effectively embracing innovation in the quest for safer and more efficient highways. TOPAS product registration and procurement specification – in the hire as well as purchase markets - will help us to achieve this.

SRL has recently become one of the first manufacturers to achieve the new TOPAS 2540A registration, with the launch of its UltraLight portable traffic signal and REMOS signal solution last October. In future, all of its new traffic signals will be 2540A certified. We already have a fleet of the latest TOPAS 2516D registered variable message signs (VMS) and are focused on gaining additional certifications for further product categories in the very near future.

A seamless, safe and low carbon transport system is within our grasp, but it won't happen by accident. Not only do ITS manufacturers need to continue to develop products focused on addressing these challenges, but our customers must ensure that quality standards sit front and centre of temporary as well as permanent procurement specification.

Including everyone in integrated transport

Caroline Strickland
CEO
Transport For All

The most basic tenet of public transport is that it is public - for us all. Our buses, trains, trams and hire schemes should be for everyone to use, across our society and communities.

But disabled people are often excluded from UK transport systems. Many of the barriers we face are everyday issues that could be easily solved: things like having toilets available, including lifts and escalators, and allowing enough space for crowds to pass through stations and concourses.

Barriers disabled people face to transport

77% of disabled people have experienced problems with broken, narrow or bumpy pavements - making getting to a taxi, station or bus stop challenging.

49% of disabled people find overcrowding on trains, buses and in stations a barrier to safe travel. This is even higher on light rail such as the tube.

35% - 37% of disabled people say a lack of amenities like toilets and places to rest prevent them from travelling.

> My medical condition means I need to use toilets often. I have to plan my route as the accessible toilets at my local stations are always locked and I have problems finding staff to open them.

All statistics are taken from the National Accessible Transport Survey 2023.

Technology is needed for basic accessibility

Despite this, basic technological advances are not being embraced on UK transport.

- It's mandatory for trains to have audio visual announcements, and it's being introduced on buses too. But some operators have resisted or refuse to comply, leaving many disabled people unsure when to get off.
- Few regions have systems showing if the wheelchair space on a bus or train is taken, meaning people will not be allowed to travel.
- Booking systems do not highlight which stations on our journey are accessible and inaccessible – despite this being in station listings.

TECHNOLOGY ENHANCES ACCESSIBILITY

Technological advances have begun to solve some of these issues. 97% of disabled people say they almost always need to plan their journeys, and 65% use mobile apps to do that.

With a few clicks we can check if a station is accessible, how many stops there are before our destination, and whether there will be a café to rest in.

Travel apps allow us to book assistance for our journey, for example staff to place ramps over gaps onto trains, help to manoeuvre with bags and luggage, or guidance to find the right bus stop or platform.

Whether the assistance we book turns up is hit and miss, but overall, technology makes it easier for many of us to travel.

With so much data readily available, it should be simple to integrate this with modern technology. It's a matter of willingness, and recognising what people need to travel.

> **"The driver had shouted out if anyone needed the next stop, which as I am profoundly Deaf, I didn't hear and as a result was not until a few stops later where I had no idea where I was that I realised something must have happened. The driver started shouting at me for not saying anything and left me at a bus stop where I had no idea how to get home. It made me feel angry, scared and excluded.**

INCLUDING DISABLED PEOPLE IN SOLUTIONS

Our transport systems exclude disabled people, because we were not included in their origins.

The solution is simple: include disabled people in public transport development.

This might mean considering the design of vehicle commissioned, the visual appearance of an app, or the layout of a station.

It means talking to people with different kinds of impairments – for example a visually impaired person will have a different experience of a station to a person with a mental health condition, or a learning disability.

Accessible systems benefit everyone – disabled people, people with heavy luggage, families with pushchairs, tourists and anyone who is new to an area.

It's also often more efficient and cheaper to integrate accessibility at the beginning, rather than retrofitting to ensure compliance at a later date

FINDING THE RIGHT SUPPORT

Across the UK there are Disabled Peoples Organisations - charities led by and for disabled people, that can be commissioned to provide this guidance.

Transport for All's disabled-led training, research and consultancy team works across the UK. We offer accessible transport expertise and connect transport operators, urban planners, and developers with our disabled community for guidance and advice on accessible systems.

We have helped test journey planners for disabled people, amended planning formulas to ensure our community's requirements are included in new housing and retail developments, and trained many local authorities in equality awareness.

Contact Transport for All:

www.transportforall.org.uk
consultancy@transportforall.org.uk

Think of it as a system...

Ian Patey
Fellow and Head of Profession for Intelligent Infrastructure
WSP

It was only relatively recently that I gained a label for something I'd been doing all my life - systems thinking. As someone who overthinks I assumed my innate need to look for connections and context, and continually ask why, was just another aspect of that part of my personality.

As far back as I can remember I have always sought to work out how things fit together and where a thing fits in its environment, I look at something that someone is suggesting and think "yes but if you do that then it will affect that other thing". I just can't help myself from looking for patterns and different ways to join the dots. All those interconnections and interdependencies - it has helped me tremendously during my career although knowing when to stop and "just get on with it" has also been a valuable lesson for me to learn. I now know that this is just how "I am wired", how my brain works.

Most of the problems and issues that we deal with on a day-to-day basis within the world of transport/mobility are complex. We often find ourselves wrestling with objectives that are not clear, with multiple stakeholders (with competing needs and wants) and a multitude of potential solutions and technologies that could be considered. These situations rarely lend themselves to a single answer and need an approach that considers the whole and understands the connections between the various components (people, technology, policy, infrastructure, environment, etc). An example of a system in a transport context is illustrated here extracted from Digitalisation of Road Transport Infrastructure, WSP . When we break down a problem into manageable parts we can often end up missing the connections between those parts, improving a single part can have the effect of creating little or even no change to the performance or outcome of the whole system. In the days when we could fix our own cars I used to spend every weekend replacing or re-aligning one part of the engine only for another to need work a few days later - a systems thinking approach told me that the whole engine needed to be taken apart, cleaned and re-built but my skills and tools were not up for that. When we don't take a whole system view we should not be surprised when the results are not as good as we'd hoped for or that we fail to achieve our intended outcomes.

Systems Thinking

Systems thinking is a framework for seeing the interconnections in a system and a discipline for seeing and understanding challenges in the context of the whole system, the relevant 'structures' that underlie complex situations.

The civil servant's systems thinking journey - GOV.UK

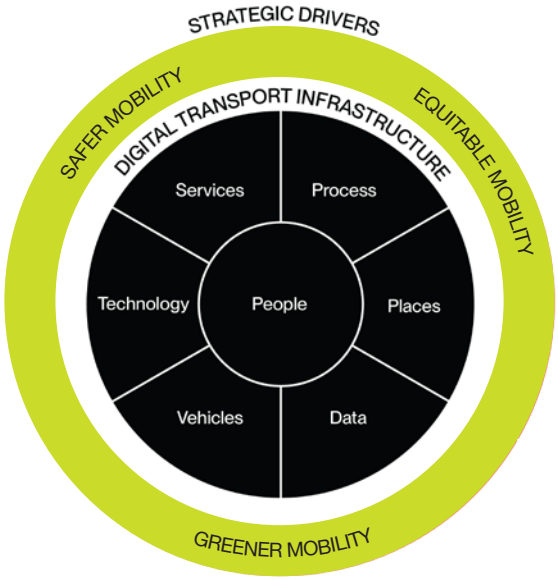
Some core aspects of systems thinking include:

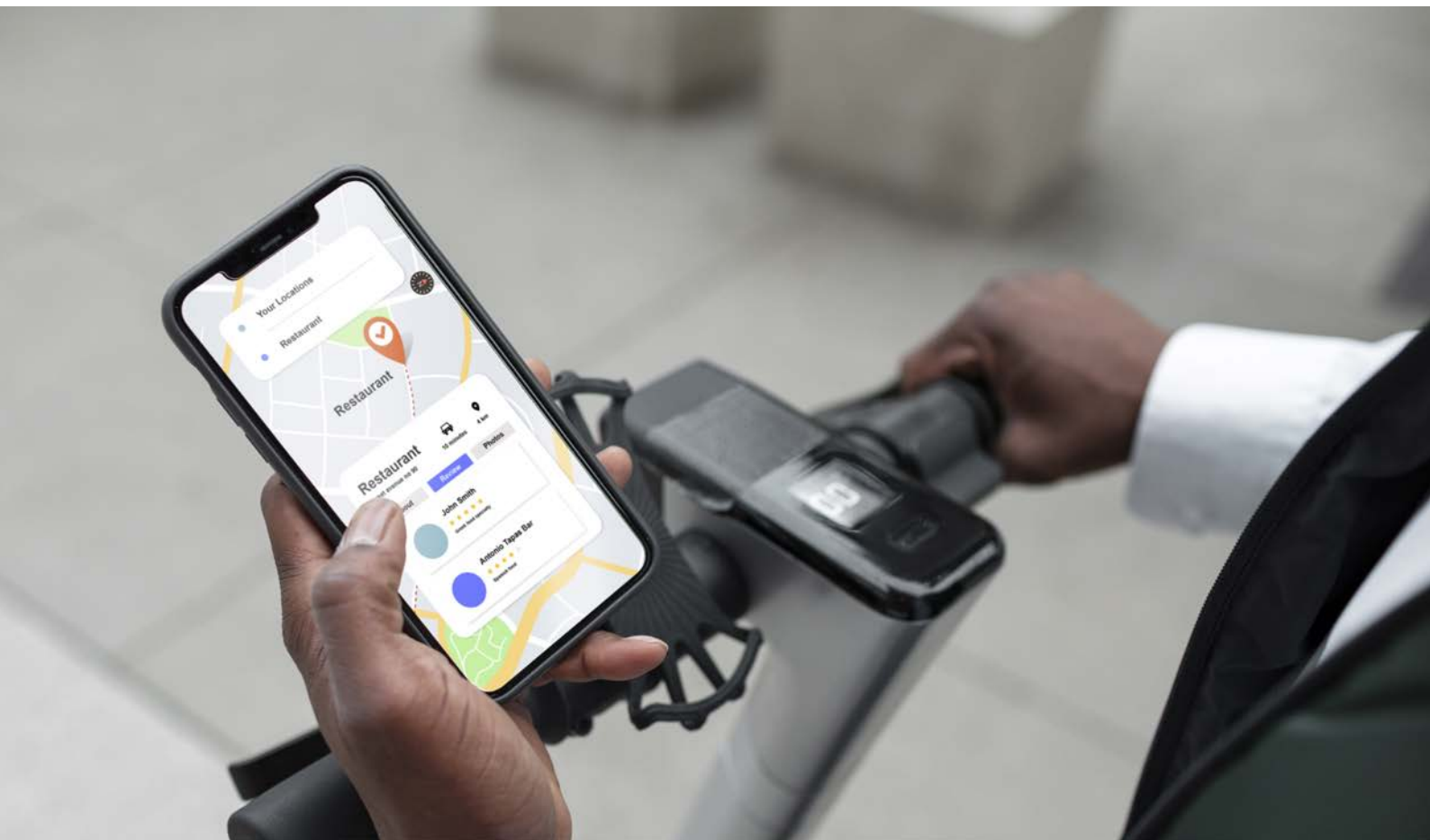
- **Connections** – at the heart of systems thinking is the idea that all parts of the system are connected and act as a whole. Changes to one part can, and usually do, have an impact through the whole system. Understanding a system means looking at the relationships between the parts and not just the parts themselves.
- **Feedback loops** – looking at the circular chains of cause and effect. Reinforcing loops compound change and balancing loops seek to bring things to, and maintain, a desired state.
- **Emergence** – the whole is greater than the sum of the parts.
- Boundaries – it is crucial to define the boundaries of the system under consideration. Taken to a logical conclusion the system could encompass the whole universe – defining boundaries enables a practical approach.
- **Leverage points** – places in a system where a small change can lead to a significant impact.

Within WSP we use systems thinking in all our sectors globally. Within the world of mobility we have produced a number of global thought pieces in recent years using systems thinking to improve safety, consider the impacts of changes to fuel tax, think about trends and trajectories in mobility and understand how digital and data driven changes can be used to improve transportation. These are all available at www.wsp.com/en-gl/insights. We also use systems thinking at a project level to ensure that we consider the overall impact of our advisory and design activities and how they lead to and create meaningful, sustainable, equitable and safe outcomes for our clients and their customers.

Our work with National Highways, in partnership with KPMG, to develop their Digital Roads Strategy is one example of systems thinking in practice.

Mobility – the art of managing the safe, equitable, sustainable and economic movement of people and goods – is fundamental to a healthy and prosperous society and in the ITS world we are so fortunate to have been trusted with its continued growth and development. We can only do that when we take a systems view and approach.





Driving innovation for a greener, safer road network

National Highways' innovation programme it can help achieve the Government's aims for a lower carbon, safer and cost-effective strategic road network

We know that to prepare ourselves for the road network of tomorrow, we will need to tackle complex challenges in a constantly changing external environment, while being efficient and delivering value for money. Innovation is a key enabler, focusing on bridging gaps to deliver the outcomes we need.

Our innovation portfolio, funded by National Highways' Innovation and Modernisation Designated Fund, has enabled us to test and trial emerging technologies which have the potential to revolutionise what it means to travel on our roads, supporting delivery of our 2050 vision. We've also used this fund to produce new requirements and guidance for proven concepts, enabling the widespread adoption of innovations to modernise our network.

Examples of innovations that we've funded during our second Road Investment Period include:

- Improving safety through our on-road **Hazard Protection Accelerator** - funding innovations that help better protect people who use or work on our roads. Through the trials, we have identified new ways of analysing and responding to hazards, that could ultimately help to prevent road accidents and people coming to harm on our roads.
- Helping to meet our ambitions for net zero carbon maintenance and construction by 2040 through the **Low Carbon Innovation Accelerator Programme** - covering innovations in material decarbonisation and making assets last longer. The accelerator programme has helped to speed up innovation within our sector, taking potential solutions and driving them through the research and testing phases by connecting our main suppliers up with innovators and our subject matter experts.

Jo White, Director of Engineering, National Highways

- Giving customers more control over their journeys through our **Digital for Customer** programme including our new Digital Lab platform, providing new data services, digital tools, and capabilities to improve the journey planning experience for our customers, partners, and people.

Alongside our innovation initiatives, there are several key enabling activities. Collaboration has been key to delivering the outcomes and we can only achieve this activity with the support of our supply chain and industry partners. Our recent work on developing National Highways' design and construction standards means we have a digital online authoring software, known as CARS, enabling us to be more agile. This means we can get innovations into our standards and specifications as quickly as possible so they can be deployed and adopted, delivering value to our customers. One example of this is ensuring our standards permit use of innovative materials like calcined clay, where we are working with other infrastructure operators like Network Rail and HS2.

The success of our innovation work in RIS2 (2020-2025) enables us to evidence the case for ongoing investment, where we can continue to focus on solving our strategic business challenges, unlocking barriers and enabling the scaling and sustaining of innovation, that is planned to be a focus of our work in our third road investment period.

WOMEN IN ITS

Accelerating Action in 2025

Gemma Tredwell
Chair
Women in ITS

Beckie Faulkner
Vice Chair
Women in ITS

This year, the International Women's Day (IWD) theme was #AccelerateAction for gender equality. It calls for increased momentum and urgency in addressing systematic barriers and biases that women face in both personal and professional spheres.

Gender diversity is crucial for organisations in terms of performance, reputation, and attracting the best talent. A balanced workforce brings different perspectives and approaches to tackling societal problems in transportation and infrastructure.

At Women in ITS (WITS), our objectives are to promote the value of a career in ITS. We aspire to inspire women, improve the image of the field, and contribute knowledge and experience from a woman's perspective to professional debate.

LOOK BACK AT 2024

In 2024, the WITS forum embraced the theme 'inspiring inclusion', highlighting the importance of diversity, equity, and representation within ITS. Across three impactful events, we connected, learned, and celebrated achievements.

We started the year with a powerful webinar celebrating International Women's Day, This event brought together colleagues from across the sector, including representation from the USA, to provide valuable insights into their personal journeys, challenges, and aspirations for the industry.

To support women working in ITS by sharing knowledge and experience, promoting their achievements, and encouraging visibility by collaborating with industry groups and colleagues.

Rebecca Bollen

Our second event took us to London for International Women in Engineering Day, focusing on inclusion, mobility, and accessible transport. Speakers shared their professional and personal experience on how to create an inclusive transport network. The event was rounded off with a personal branding session, preparing attendees with the skills and confidence to raise their professional presence.

Inspiring diverse career pathways was the theme that closed out the year with a joint WITS and Early Careers Forum event held at Yunex Traffic in Poole. Speakers encouraged discussions on career development programmes, career pathways, and opportunities within the ITS sector. The day was filled with networking and conversations to address the importance of representation and support for women and early career professionals. To end the day, we took a factory tour, offering a behind-the-scenes look at the cutting-edge technology shaping the future of transportation.

SYSTEMS APPROACH

The systems approach recognises that technology is just one part of a larger system. Over half a century ago, we designed a system that favours car travel, influencing locations for shops and workplaces, as well as taxation, regulation, and standards. To accelerate action and change the way we travel, we need to put people at the heart of designs and decisions regarding technology. Redesigning systems to make it more logical and inclusive for users to make greener and safer choices is essential.

Systems thinking embraces the full context, considering all influential factors and interrelationships that affect choices. A systems approach can effectively guide stakeholders in the transition to a zero-carbon future while simultaneously improving access, enhancing safety, and promoting gender equality in transport. Key areas include: Safe People, Safe Vehicles and Safe People.

TECHNOLOGY

Technology plays a pivotal role in transforming transportation systems and accelerating action.

To encourage the advancement of technology solutions, WITS has championed the technical skills of its membership. We have had some global insights into the future trends and challenges that face us in the transport industry. In the UK, this includes meeting the Government targets "net zero" greenhouse gas emissions by 2050, and the phasing out of petrol and diesel vehicles by 2030. We've had excellent presentations on the challenges and benefits of providing alternative fuelled vehicles and infrastructure to support this, such as the use of hydrogen and upscaling the EV infrastructure to cope with the increased demand.

Technology is also contributing to making our travel network safer. We've had insights into the role that data analytics is making in monitoring and improving road works and the overall design of road schemes. These include what and how we communicate to road users and how we design and implement solutions. I look forward to seeing what new solutions and innovations our members are contributing to in 2025.

PERSONAL GROWTH

Personal growth can be supported by having a personalised career path. A career path is the sequence of jobs and roles you progress through in your professional life that prepare you for growth in your chosen area of work. Benefits of supporting women in the workforce to map out their career paths and achieve personal growth include improved retention, succession planning, and higher engagement.

> **I want to support women in ITS to recognise the value they bring and be given a voice, whether that be during meetings and workshops when I am facilitating them or by encouraging women to speak at our events and learn within our forum.**
>
> Beckie Faulkner

> **To accelerate action for women, I want to provide Women in ITS with a safe space to share and explore ideas from different perspectives. I want to help our membership strengthen their network and promote their talents and skills.**
>
> Gemma Tredwell

HELP THE WOMEN IN YOUR LIFE:

- Call out stereotypes
- Challenge discrimination
- Celebrate women's successes
- Tell them what their contribution means to you and your organisation
- Build skills in decision making and leadership
- Recognise intersectionality (Race, ethnicity, disability, socio-economic status)
- Give women a voice and a platform

How Westcotec's smart tech is transforming road safety

Westcotec , an employee-owned company based in Norfolk, UK, has emerged as a leading innovator in traffic safety solutions, particularly in the development of driver education systems.

Olly Samways
Sales Director
Westcotec

Founded in 2001, Westcotec has become one of the largest suppliers of interactive signage in the UK, with a focus on producing high-quality, "Made in Britain" accredited products. Westcotec became employee-owned in 2018, fostering a truly dedicated and forward-thinking team.

B6532, DURHAM SUCCESS STORY

A Westcotec sign installed at a high-risk location on the B6532 Edmondsley Lane has delivered sustained successful results and to date has eliminated injury collisions. Durham County Council reported a longstanding safety issue with turningrelated collisions at the location north of the city of Durham. These were caused in part by the staggered junction layout, and made worse by a hill crest on the approach to the junction from the north, effectively hiding stationary vehicles waiting to turn right into Trouts Lane.

The hill crest prevents traffic on the southbound B6532 from seeing vehicles waiting to turn right into Trouts Lane. Discussions with the Council took place just as the Westcotec team had returned from a site visit to Belgium where they had witnessed the effectiveness and efficiency of Forward Looking InfraRed (FLIR) technology. They tested it locally and proposed a FLIR installation at the Durham site.

The proposal was accepted by the Council and a fee of £13,000 for the entire installation was agreed. In brief, when the camera detects a vehicle waiting to turn, it activates the sign, which flashes brightly to alert vehicles before they come over the hill crest, giving them time to slow down. As the camera is solar powered, there was no requirement for costly and disruptive roadworks at the time of installation. Similarly, routine maintenance has proved to be simple and does not cause any delays or congestion. The results speak for themselves. Between 2012 and 2017, there was one fatal collision as well as two serious and six non-injury crashes were at the site. However, there have been no personal injury collisions since the sign was installed in 2017.

Commenting on the installation, Paul Storey of Durham County Council said: "The reduction in collisions means the sign has paid for itself many times over. The team at Westcotec worked hard to ensure they understood what we needed. They made it a pleasure to work together using innovative road signage to bring about a significant reduction in collisions at a particularly hazardous junction. "In terms of results this has been a great success, backed up by first-class customer service and technical know-how."

DEVELOPMENT OF ANPR TECHNOLOGY

The firm's journey into ANPR technology began with the development of its Automatic Speed Watch Camera (ASWC), designed specifically for Community SpeedWatch (CSW) groups. This innovation addressed many of the challenges faced by traditional CSW operations, including accuracy and efficiency. The ASWC system includes

a portable camera unit capable of capturing clear images of speeding vehicles, as well as flexible power options (battery, solar and mains supply) and secure data transfer.

This technology has significantly enhanced CSW operations, improving accuracy and eliminating the high error rate in number plate readings previously experienced with manual methods. It also allows a reduced number of volunteers (from three to two), opening the door for more frequent operations. Its technology has delivered more streamlined reporting, with automated data collection and processing to replace inefficient paper based systems.

HEATHROW AIRPORT PERIMETER ROAD

A notable success story is the implementation of Westcotec's technology at London Heathrow Airport, which resulted in a 3% reduction in average traffic speeds and a remarkable 70% reduction in collisions. Heathrow is the UK's premier airport, occupying a busy site approximately 14 miles to the west of London. More than 80 airlines operate from Heathrow, serving more than 200 destination cities. Each day there are on average 1,300 air transport movements. Behind the scenes on an operation as large-scale as this is a huge collection of road-based support, with many thousands of vehicles entering and leaving the airport site every day.

The airport's safety culture requires these vehicles to do their work with the lowest possible risk of incident or injury. One key way for this to be achieved is to ensure that drivers and vehicles are compliant with the rules. The Perimeter Road used to have a mix of 30mph and 40mph speed limits. There was concern about the use of illegal speeds by some delivery and business drivers on the road, as well as at the number of collisions occurring. It's a very busy road, and the police need to ensure that whenever possible there is a free flow of traffic along it.

One small incident on the Perimeter Road can easily have a knock-on effect for traffic trying to enter or leave the airport. In order to assist with greater levels of compliance, members of the safety team at Heathrow Airport approached Westcotec to discuss the practicalities of a comprehensive system of matrix speed signs and ANPR cameras. The purpose of this would be to reduce the speed of vehicles travelling around the Perimeter Road and to improve safety for everyone using the airport. The system is operated by Heathrow Airport in conjunction with the Metropolitan Police. It consists of a network of matrix speed signs covering the entire Perimeter Road – a distance of approximately seven miles. These signs, positioned at the roadside, display a vehicle's speed with an additional 'Slow Down' message if the vehicle is travelling above the speed limit.

These signs are deliberately positioned to be high profile and easy to see. Approximately 100 metres past each speed sign is an Automatic Number Plate Recognition (ANPR) camera, housed in a small yellow box at the roadside and set to identify and record any vehicle that is still speeding after it has passed the sign. The cameras all do this by capturing images of speeding vehicles and their registration numbers. Each image is passed direct to the central control room at Heathrow, where it can be processed and appropriate action can be taken. If an offending vehicle is operating on behalf of one of the organisations who have business at the airport, then that organisation will be contacted and asked to follow up the individual driver's behaviour.

The emphasis is on information and education rather than prosecution and punishment to bring about a safer road environment. According to the Metropolitan Police, the installation of the matrix speed signs and ANPR cameras has led to a three per cent reduction in average traffic speeds on the Perimeter Road, with an impressive 70 per cent reduction in collisions. Another benefit of the installation is that high levels of compliance encouraged by the signs have allowed a single 30mph limit to be introduced along the entire Perimeter Road, with high levels of confidence that compliance would be maintained.

A LOOK AHEAD

As Westcotec continues to develop and refine its ANPR technology, the company remains committed to supporting road safety and other speed management initiatives across the UK. Its innovative approach and willingness to adapt to local needs positions it as a key player in the ongoing effort to reduce casualties through effective speed management strategies.

The Westconnect management tool futureproofs every sign made by Westcotec since its earliest days in 2001. Launched in late 2024, Westconnect links the product range to a secure platform that can be accessed through any web browser. Its reporting function provides at-aglance data from vehicle speeds, traffic flows, ANPR reads and even flood levels. In-house development and testing means the technology operates under the highest levels of cyber security.

At the heart of Westcotec's philosophy are innovation, technology and customer service, backed by a commitment to a proper understanding of the issues and risks impacting the communities it serves. Its expansion strategy includes adapting the current portfolio of traffic safety systems to various speed limits, language requirements and sign standards to meet the needs of different jurisdictions. This flexibility, combined with an innovative approach and highquality products, ensures Westcotec is ideally placed for expansion into new markets in the years to come.

As Westcotec continues to develop and refine its ANPR technology, the company remains committed to supporting road safety and other speed management initiatives across the UK.

Integrated transport: How technology supports a seamless, safe, and low carbon transport system

In an era where urban mobility challenges continue to grow, the need for intelligent, adaptable transport solutions has never been greater.

John Ball
Senior Product Manager
SWARCO

As cities strive for a seamless, safe, and low-carbon future, innovative traffic management systems such as ImFlow are proving to be vital components of this transformation. By leveraging real-time data and adaptive algorithms, ImFlow is reshaping the way traffic flows, enhancing connectivity, and contributing to a more sustainable transport landscape.

SEAMLESS MOBILITY THROUGH SMART INTEGRATION

The vision of an integrated transport system hinges on the ability to synchronise multiple mobility solutions into a cohesive network. ImFlow exemplifies this approach by dynamically adjusting traffic signals based on real-time demand, ensuring that road users experience smoother journeys with minimal delays. ImFlow continuously optimises junction performance, responding to congestion, pedestrian crossings, and environmental factors in real time.

It offers next-level flexibility, allowing transport authorities to optimise traffic signals for specific modes of transport and objectives. It can optimise a single junction, a corridor, or an entire city, ensuring scalability to meet the needs of various urban environments. Whether minimising stops, reducing delays, or prioritising active travel, policies can be dynamically applied to a single junction, an entire corridor, or a full citywide network. This policy-driven approach enables local authorities to respond to real-time priorities, such as air quality improvements or pedestrian and cycling enhancements, ensuring that transport management aligns with broader sustainability goals.

This level of integration extends beyond signal control. By interfacing with wider ITS, including public transport priority schemes and urban mobility platforms, ImFlow makes vehicle-to-infrastructure (V2I) communication a key differentiator. It can accept floating vehicle data, such as Cooperative Awareness Messages (CAM) and Signal Request Messages (SRM) from connected vehicles, enabling real-time traffic adaptations. Additionally, it provides optimal speed and time-to-green advice, enhancing

By interfacing with wider ITS, including public transport priority schemes and urban mobility platforms, ImFlow makes vehicle-to-infrastructure (V2I) communication a key differentiator.

driver awareness and promoting smoother traffic flow. ImFlow helps create a truly connected ecosystem. The result is a network where private vehicles, public transport, cyclists, and pedestrians can move efficiently and safely, reducing reliance on car-centric travel and encouraging multimodal transport solutions.

ENHANCING SAFETY THROUGH SMARTER TRAFFIC MANAGEMENT

Safety remains at the heart of any transport innovation. Traditional traffic signal systems often struggle to respond to unpredictable traffic patterns, leading to unnecessary stops, congestion-induced driver frustration, and increased accident risks. By contrast, ImFlow continuously adapts to real-world conditions, ensuring traffic moves in the safest and most efficient manner possible.

A key benefit of ImFlow's real-time responsiveness is its ability to reduce stop-start traffic conditions, which can contribute to rear-end collisions and dangerous junction conflicts. Furthermore, its ability to prioritise pedestrian crossings and active travel corridors supports a safer environment for all road users, particularly in urban settings where mixed-modal transport is prevalent.

Moreover, ImFlow's C-ITS connectivity positions it as a forward-thinking solution for connected mobility. By enabling seamless interaction between infrastructure and vehicles, it enhances real-time decision-making and optimises traffic flow. This capability not only improves traffic efficiency but also supports the evolution of autonomous and connected vehicle technologies, reinforcing the foundation for smarter, data-driven transport networks.

DRIVING DOWN CARBON EMISSIONS

As global and local authorities strive to meet net-zero commitments, transport remains a major focus for carbon reduction. Road congestion is one of the leading causes of excess fuel consumption and emissions, with idling vehicles contributing significantly to poor air quality in cities. By minimising unnecessary delays and optimising vehicle flow, ImFlow actively reduces carbon emissions and supports cleaner urban environments.

Beyond immediate CO2 reductions, ImFlow's integration with sustainable transport initiatives enables long-term decarbonisation strategies. The system can be configured to support low-emission zones, prioritise bus rapid transit (BRT) corridors, and synchronise with air quality monitoring systems, ensuring that traffic interventions align with environmental goals.

THE FUTURE OF INTELLIGENT TRANSPORT

The role of technology in shaping a future-ready transport system is clear. With its ability to integrate seamlessly into urban mobility networks, enhance safety, and support carbon reduction efforts, ImFlow offers a glimpse into the potential of intelligent traffic management in the years ahead.

As we look to the future, embracing adaptive solutions like ImFlow will be essential to creating a transport system that is not only efficient but also sustainable and inclusive. By harnessing the power of real-time data, AI-driven optimisation, and integrated mobility platforms, we can move closer to the vision of an integrated transport network—one where technology enables seamless, safe, and low-carbon journeys for all.

JENOPTIK

MORE LIGHT

Improving roads, journeys and communities with Smart Mobility Solutions.

Spot speed and red light enforcement

Jenoptik's **VECTOR SR**, is an innovative, cost effective **Home Office Type Approved** solution for spot speed and red light enforcement.

Using the VECTOR ANPR camera, supported by 3D radar and non-visible infra red illumination, VECTOR SR requires no in-road loops or connections to a traffic signal. Lightweight and low power, it can be mounted on passively safe columns and works with all traffic signal heads. Non-visible infra-red lighting allows 24/7 operation.

Since it's release to market, Jenoptik has contracted over 330 VECTOR SR sites across the UK as well as hundreds more internationally.

Want to know more?
Contact one of our solution experts today.

Phone +44 1183 130333 | info@jenoptik.co.uk | www.jenoptik.co.uk

Building smarter roads: The key to a seamless, safe and sustainable transport network

Kieran Corbally
Senior Commercial Manager,
AGD Systems

The modern transport network is evolving. Cities are facing mounting pressures to improve traffic flow, enhance safety and meet sustainability targets while accommodating the growing demand for active travel.

The key to striking this balance lies in integration - bringing together different modes of transport, leveraging intelligent technology and using data-driven insights to create a seamless, safe and sustainable system.

At AGD, we are advocates for this transformation and are continually investing in developing future-ready technologies that respond to the shifting needs of urban mobility. Our approach focuses on developing advanced detection solutions that support multimodal travel, optimise traffic management and contribute to the long-term sustainability of transport networks.

THE CASE FOR INTEGRATION

An effective transport network is not just about moving vehicles efficiently, it's about creating an environment where all modes of transport - can navigate carefully and conveniently. However, fragmented systems often lead to inefficiencies, congestion and potential safety risks, making it harder for cities to deliver a seamless transport experience.

Smart sensors and detection systems enable authorities to make real-time

decisions that keep traffic moving smoothly, reducing delays and improving overall efficiency. Advanced detection at intersections and crossings helps minimise the risk of collisions between vehicles and vulnerable road users, making urban environments safer for everyone. At the same time, reducing stop-start traffic, unnecessary idling and congestion plays a crucial role in cutting emissions and encouraging more eco-friendly travel choices.

SMARTER TRAFFIC MANAGEMENT FOR A SEAMLESS NETWORK

Effective traffic management relies on detection technology that keeps transport networks flowing efficiently. By ensuring traffic signals and road systems respond dynamically to real-time conditions, these solutions help reduce bottlenecks, improve journey times, and enhance road safety. Whether it's optimising signal timing at intersections or replacing outdated detection methods, advanced solutions like the AGD650 multimodal detector and the AGD318 traffic optimiser are transforming how road authorities manage traffic.

The AGD650 multimodal detector provides precise vehicle detection at intersections, enabling better signal timing adjustments. By accurately classifying vehicles, it allows transport authorities to optimise green light phases, reduce unnecessary delays, and keep traffic moving smoothly. Crucially, the AGD650 also enhances safety by detecting both stationary and moving vehicles, helping to prevent conflicts between road users.

Similarly, the AGD318 traffic optimiser is replacing traditional wear-prone induction loops with radar-based detection. By accurately identifying vehicle presence - including queuing traffic - the AGD318 improves the responsiveness of traffic signals, reduces maintenance costs and extends the lifespan of detection systems. This not only contributes to a more efficient transport network but also ensures infrastructure investments deliver long-term value.

SAFETY AND THE ROLE OF DATA-DRIVEN DECISION-MAKING

One of the biggest challenges in urban transport is protecting vulnerable road users. Integrating active travel - such as cycling and walking - into existing road networks requires smart solutions that prioritise safety without disrupting traffic flow.

By deploying intelligent detection at kerbsides and crossings, authorities can create safer pedestrian environments while maintaining efficiency for other road users. Data collected from detection technologies helps city planners identify high-risk areas, implement traffic-calming measures and develop long-term policies that improve overall network safety.

Additionally, incident detection and predictive analytics allow cities to anticipate potential hazards before they occur. When integrated into a wider transport management system, this data-driven approach reduces response times, prevents accidents and ultimately saves lives.

SUSTAINABILITY AND LONG-TERM INFRASTRUCTURE PLANNING

Sustainability in transport is about more than just reducing emissions - it's about designing infrastructure that performs and lasts. The integration of smart technology into transport networks requires substantial investment, making reliability and maintenance important considerations.

By choosing high-quality detection systems with a long mean time between failures (MTBF), authorities can be guaranteed they are investing in durable, future-proof solutions. The philosophy of 'buy smartly once' rather than repeatedly replacing underperforming hardware is essential for achieving cost efficiency and reducing environmental impact.

An integrated transport network should also encourage modal shift by making sustainable travel options more accessible and appealing. When traffic management systems are designed to support active travel - through more secure crossings, prioritised signal timings and real-time data for cyclists and pedestrians, cities can reduce reliance on cars and move towards a greener future.

THE ROAD AHEAD

Building a reliable, integrated transport network requires a collaborative approach. Local authorities, transport planners and technology providers must work together to implement intelligent solutions that create seamless connectivity between different modes of travel. By embracing innovation and data-driven decision-making, cities can develop transport networks that not only meet today's demands but also anticipate the needs of future generations.

Find out more about AGD Systems:
agd-systems.com

Integrated Transport

How can technology support ambitions for a seamless, safe and low carbon transport system

Smarter, Safer, and Greener Cities with SWARCO MyCity

As our cities grow, the challenge of managing traffic congestion, road safety, and environmental impact becomes more urgent. Local authorities need intelligent, data-driven solutions to improve mobility whilst reducing emissions and enhancing safety. SWARCO's MyCity platform is the key to achieving these goals. Designed for urban environments, MyCity provides an integrated, real-time traffic and air quality management system that enables authorities to make informed decisions and optimise urban mobility.

Seamless Mobility: Smarter Traffic, Fewer Delays

Coordinating urban transport requires a connected approach. The MyCity platform allows local authorities to monitor and control traffic flows across the city, ensuring smooth movement for all road users.
Combining real-time and historical traffic data, MyCity enables proactive signal optimisation, congestion reduction, and public transport prioritisation ensuring efficient traffic flow and reduced journey times. Enabling integration with existing systems means cities can coordinate all in one unified platform.

Safer Roads, Proactive Management

Urban safety is a top concern, and MyCity helps authorities take control. With AI-powered analytics, real-time monitoring, and predictive modelling, cities can identify accident-prone areas and implement solutions before incidents occur.

Key safety features include:

- Optimised pedestrian crossings for improved safety in high-traffic areas.
- Smart roadwork management to minimise disruption and risk.
- By equipping transport teams with actionable insights, MyCity helps create a safer environment for drivers, cyclists, and pedestrians alike.

Low-Carbon Transport: Cleaner Air, Healthier Cities

Local authorities play a crucial role in reducing emissions and improving air quality. MyCity's Air Quality Monitoring (AQM) system provides real-time pollution data, allowing them to identify pollution hotspots and take targeted action.

With MyCity, you can:

- Implement low-emission zones and eco-routing strategies.
- Promote sustainable transport alternatives such as cycling and public transport.
- Optimize traffic flow to reduce vehicle idling and lower CO_2 emissions.

By integrating air quality data with traffic management, local authorities can proactively shape policies that support a greener, more liveable city.

Future-Ready, Scalable, and Easy to Integrate

Built for flexibility and scalability, MyCity allows local governments to start with essential services and expand as needed. With cloud-based access, intuitive dashboards, and reporting, local authorities can manage urban mobility with greater efficiency and transparency.
Join the movement towards Integration Nation, where technology enables local authorities to build seamless, safe, and sustainable cities.

DISCOVER HOW MYCITY CAN TRANSFORM YOUR CITY'S TRANSPORT MANAGEMENT.

Visit www.swarco.com and request a free demo

swarco

The Better Way. Every Day.