

## BIG THINKING

## JACOBS THEATRE JACOBS

Turning the big thinking into opportunity

Priorities across the national, regional and city roads networks...  
**09.30-10.00**

**Why roads matter**

**John Armitt**, Chairman, National Infrastructure Commission  
**Tricia Hayes**, Director General, Roads, Motoring and Devolution, DfT

**10.00-11.00****National – progress and challenges on the SRN**

**Jim O'Sullivan**, Chief Executive, Highways England

**Anthony Smith**, Chief Executive, Transport Focus

**Joanna Whittington**, Chief Executive, ORR

**Elliot Shaw**, Executive Director, Strategy and Planning, Highways England

**12.00-13.00****Regional – progress and challenges for the emerging regional transport bodies**

**Barry White**, Chief Executive, Transport for the North

**Martin Tugwell**, Programme director, England's Economic Heartland

**Rupert Clubb**, Director of Communities, Economy, Transport, East Sussex County Council, representing TfSE

**Maria Machancoses**, Director, Midlands Connect

**Cathy Miller**, Deputy Director, North and Devolution at Department for Transport

**14.00-15.00****Attracting private capital for infrastructure in a UK context**

**Steve Norris**, property and transport advisor

**Steve Gooding**, Director, RAC Foundation

**David Barwell**, Chief Executive, UK and Ireland, AECOM

**Nigel Wilson**, Chief Executive, L&G

**16.00-17.00****Urban – cities and their mobility priorities**

**Gareth Powell**, Managing Director, Surface Transport, TfL

**Isabel Dedring**, Global Transport Leader, Arup

**Mark Garrity**, Business Development Director, Thales Group

**Margot Orr Jones**, Cities Director, Jacobs

BURGES SALMON STAGE 

Industry leaders, policy maker and thought leaders shaping the future

**09.30-11.00****Video link from Main Theatre****11.10-11.35****Putting users first**

**Anthony Smith**, Chief Executive, Transport Focus leads a panel previewing the first Strategic Roads User Survey

**11.45-13.00****Change Infrastructure: Highways.**

CECA leads a panel session including audience vote to help identify its future engagement and campaigning programme

**13.15-13.45****Productivity and Project 13 – a new delivery model to boost certainty and productivity**

**Richard Stewart**, Chief Engineer, Costain

**Jenny MacDonald**, Principal Information Consultant, Mott MacDonald

**14.00-14.25****Increasing equality, diversity and inclusion - a personal tale**

**Elliott Duncan**, Managing Director, Galliford Try

**14.30-14.55****Valuing natural capital**

**Alan Law**, Chief Strategy and Reform Officer, Natural England

**15.05-15.20****Reflections on a working life as an environmental campaigner in the transport sector**

**Stephen Joseph**, former Chief Executive, Campaign for Better Transport

**15.40-15.55****Cross-fertilising construction best practice across sectors**

**Tony Gates**, Managing Director, Sir Robert McAlpine

**16.00-16.25****A vision for digital transport infrastructure**

Exploring through the use of personas and storytelling how digital technology might change the experience of clients, transport users and industry professionals

Led by **Adrian Malone**, WSP's Head of Digital Project Delivery and BIM

**16.30-17.00****Future of freight**

**Richard Cuerden**, TRL Academy Director

**Elizabeth de Jong**, Director of UK Policy, Freight Transport Association

## ROAD OWNER HUBS

HIGHWAYS ENGLAND THEATRE 

Learn, meet and engage with Highways England

**11.00****New procurement tools and delivery models****12.00****Designated Funds****13.00****Innovation****13.30****Smart Motorways Programme****14.00****Operational Excellence****15.00****Supplier Maturity; the journey from RIS 1 to RIS 2****16.00****Complex Infrastructure Programme**FUTURE URBAN MOBILITY HUB 

Bringing together cutting-edge practitioners, thought leaders and industry bodies to ponder the future of urban mobility and address the questions that every city leader should be asking.

**11.30-12.30****How do you allow innovation while accommodating disruption?**

Curated by Atkins, with Jacobs

**13.00-14.00****Procurement of innovation in a city context (covering both procurer and innovator perspectives).**

Curated by Transport Systems Catapult

**14.15-15.15****Final mile journeys and parking.**

Curated by British Parking Association

## ENGLAND'S REGIONS HUB

Bringing together England's Subnational Transport Bodies to share best practice and discuss collaborative opportunities

**13.10-13.30****Update on the STB process. Martin Tugwell, chair England's STB group DfT****13.30 – 14.30****Transport for the North, priorities and progress****14.55 – 15.55****England's Economic Heartland, priorities and progress**

## TECH &amp; INNOVATION

INTELLIGENT INFRASTRUCTURE CHALLENGE 

Experts cross examine finalists in the Intelligent Infrastructure Challenge

**12.20 – 12.40****What happened next**

Previous winners update us on their progress

**12.40 – 13.30****Safety challenge pitches****15.00 – 15.50****Cost challenge pitches**PA CONSULTING TECHNOLOGY DOME 

Innovations, applications and latest practice in digital technologies

**11.30-12.00****PA Consulting scene setter****12.10-12.40****Applying Dutch experience in using traffic data to better manage traffic flows in a UK context**

Sweco

**12.50-13.20****Connected Futures - digital infrastructure for connected vehicles**

TRL

**13.30-14.00****Accelerating digital information delivery across HE's Major Projects**

GroupBC

**14.10-14.40****Tools for the Technology Operations Centre (T-TOC)**

Mott MacDonald

**14.50-15.20****UK Autodrive update**

Arup

**15.30-16.00****Learning from other sectors to accelerate widespread data exploitation**

Amey

**16.10-16.40**

Kier

**16.40-17.00****PA Consulting wrap up on the day**

## MATERIALS &amp; MAINTENANCE

MPA MATERIALS INNOVATION HUB 

Experts cross examine finalists in the Materials Innovation Hub challenges

**11.00 – 11.10****Scene setting****11.10 – 12.00****Around the pavement pitches****13.50 – 14.40****On the pavement pitches****16.10 – 17.00****Pavement materials pitches**TARMAC MATERIALS & ASSET MANAGEMENT DOME 

Latest thinking in materials, pavement engineering and maintenance

**11.30-12.00****Vital ingredients for successful highways asset management**

Atkins

**12.10-12.40****A new, cost effective and environmentally compliant solution for road planings**

Totus Environmental

**12.50-13.20****Highways pollution: tools and techniques to tackle pollution in surface water runoff**

SDS

**14.00-14.30****Asset Management - ALARM survey, deterioration modelling and automated construction**

Tarmac

**14.40-15.10****Applications of polymer modified bitumen**

Total

**15.20-15.50****Applications of self-healing concrete**

Costain

**16.00-16.30****Making assets smart. Structural safety checks by making assets smart: Queensferry Crossing**

Arup

**16.35-17.00****Cloud-based software for maximising operational efficiencies**

Pitney Bowes

## SAFETY &amp; PEOPLE

A-ONE+ SAFETY THEATRE 

Ensuring roads are safe to work and travel upon

**14.00-14.15****Taking a safe systems approach to road safety**

**Deborah Sims**, Senior Lecturer, Department of Civil Engineering, University of Greenwich and CIHT Safety Panel member

**14.15-15.10****Making UK Roads the safest in the World for both road users and road workers... How do we get there?**

**Mike Wilson**, Chief Engineer and Executive

Director, Highways England

**Kate Carpenter**, CIHT Road Safety Panel & Jacobs Road Safety Services

**Paul Copeland**, Chair ADEPT Traffic and Safety Working Group

**15.30-16.30****Why we need a Highways Accident Investigation Branch – what lessons can be learnt from the rail industry and the Cullen Inquiry?**

**Steve Gooding**, Director, RAC Foundation

**Chris Jackson**, Partner, Burges Salmon

**16.00-17.00****Behavioural Insights**

A comparative assessment of how human behaviours have been used to improve safety in other sectors  
**Alan Cheung**, Director of Behavioural Management, Costain

**Using behavioural insights and the latest behaviour change techniques to improve the safety of road users**

**Deidre O'Reilly**, Head of Social Research and Behaviour Change, Highways England

CIHT THEATRE 

Industry briefings from the Chartered Institution of Highways and Transportation

**12.00****Welcome**

**Matthew Lugg**, President, CIHT

**12.30-13.20****Delivering services for people**

Panel session chaired by **Matthew Lugg**

**13.30-14.20****Procuring successful outcomes**

Panel session chaired by **Steve Rowsell**, Past President, CIHT

**14.30-15.20****Getting best value from data**

**Chris Dyer**, Head of Consultancy and Infrastructure Asset Management, Yotta

## MORE SPACES

## HUK LAUREATES AWARD DINNER

Celebrating the extraordinary achievements of key individuals in the UK highways sector

LOCAL AUTHORITY HUB 

Organised by ADEPT

CAV COFFEE HOUSE 

A modern take on London's 18th century coffeehouses which inspired brilliant ideas and discoveries that made Britain the envy of the world

**BIG THINKING**

**JACOBS THEATRE** 

Turning the big thinking into opportunity

**09.30-10.30**  
**Future Proofing Local Authority Roads**  
A high-level look at the challenges facing local authorities  
**Cllr Martin Tett**, Chair of the Environment, Economy, Housing and Transport Board, Local Government Association; Leader, Buckinghamshire County Council  
**Nigel Riglar**, Commissioning Director, Communities & Infrastructure at Gloucestershire County Council, First Vice President, Association of Directors for the Environment Planning and Transport  
**George Lee**, Chief Executive, Highways Term Maintenance Association  
**John Lamb**, President, Local Government Technical Advisors Group  
**Matthew Lugg**, President, CIHT

**11.45-12.45**  
**Road to zero and enabling electrification of the vehicle fleet**  
**Ross Fairley**, Partner, Burges Salmon  
**Simon Harrison**, Group Strategic Development Manager, Mott MacDonald  
TRL to cover the Consumers, Vehicles and Energy Integration (CVEI) project: Europe's largest scientific study of Electric Vehicle Adoption

**14.00-15.00**  
**Putting infrastructure requirements at the heart of the CAV journey**  
**Daniel Ruiz**, Chief Executive, Meridian Mobility  
**Rob Wallis**, Chief Executive, TRL  
**Professor Paul Jennings**, Intelligent Vehicles Research Leader, Warwick Manufacturing Group  
**Chris Reeves**, Head of CAV Technologies, MIRA  
**Peter Stoker**, Chief Engineer - Connected & Autonomous Vehicle, Millbrook  
**Simon Navin**, Programme Manager, Smart Practice, Ordnance Survey

**15.15-16.15**  
**Future mobility and the long-term requirements of roads infrastructure**  
**Charlie Henderson**, Partner, PA Consulting  
**James Haluch**, Managing Director Highways, Amey,  
**Alistair Hunter**, Director, Infrastructure Advisory, Arup  
**Nina Bell**, Managing Director for UK, Norway, Sweden, Denmark for Avis Budget Group and Zipcar UK  
**Phil Clifton**, Managing Director Highways, Balfour Beatty  
**Rachel Skinner**, Vice President, ICE and Director, WSP

**BURGES SALMON STAGE** 

Industry leaders, policy maker and thought leaders shaping the future

**09.45-10.15**  
**Highways England's Major Projects pipeline**  
**Peter Mumford**, Major Projects and Capital Portfolio Management, Highways England  
**10.15-10.45**  
**Highways England Strategic Studies**  
**Jeremy Bloom**, Network Planning Director, Highways England  
**Nasar Malik**, Director, National Government Sector, WSP

**11.00-11.30**  
**A framework for CAVs beyond the technology**  
Panel led by **Chris Jackson**, Partner, Burges Salmon

**11.30-11.50**  
**Adapting roads for machine vision**  
**Andy Fish**, Technical Service Specialist, 3M

**13.00-13.15**  
**Harnessing value for the highways sector from the Internet of Moving Things**  
**Jo Bertram**, chief digital and strategy officer, Telefonica

**13.15-13.45**  
**Applications of Artificial Intelligence in the highways sector**  
**Andrew Elland**, Engineering Director, DeepMind  
**Will Cavendish**, Global Digital Services Leader, Arup

**15.10-15.35**  
**Inclusive growth and social value in a highways context**  
**Dr Jennifer Anderson**, Director of Economic Development, Social Inclusion and Mobility, Jacobs  
**Daniel Fujiwara**, Director, Simetrica

**ROAD OWNER HUBS**

**HIGHWAYS ENGLAND THEATRE** 

Learn, meet and engage with Highways England

**11.00**  
**Transforming roadworks**

**12.00**  
**Driving for Better Business workshop**

**13.00**  
**Driving for Better Business workshop**

**14.00**  
**Year of Engineering briefing and trail**

**FUTURE URBAN MOBILITY HUB** 

Bringing together cutting-edge practitioners, thought leaders and industry bodies to ponder the future of urban mobility and address the questions that every city leader should be asking.

**08.15-09.15**  
**Breakfast briefing**  
What future users want – taking a human-factors approach to urban mobility needs and how this might inform city authorities' priorities. Curated by Atkins

**11.30-12.30**  
**Encouraging cycling and other forms of active mobility.**  
Curated by TRL

**14.00-15.00**  
**What is the future for managed mobility services and other new mobility services in an urban context.**  
Curated by Jacobs, with Atkins

**ENGLAND'S REGIONS HUB**

Bringing together England's Subnational Transport Bodies

**11.45 – 12.45**  
**Transport for the South East, priorities and progress**

**13.00 – 13.45**  
**Joining up the MRN to function as a national network**

**14.00 – 15.00**  
**Midlands Connect, priorities and progress**

**TECH & INNOVATION**

**INTELLIGENT INFRASTRUCTURE CHALLENGE** 

Experts cross examine finalists in the Intelligent Infrastructure Challenge

**09.30-10.20**  
**Efficiency challenge pitches**

**11.50-12.40**  
**Congestion challenge pitches**

**14.00-14.45**  
**Judges reflections and awards**

**PA CONSULTING TECHNOLOGY DOME** 

Innovations, applications and latest practice in digital technologies

**09.10-09.40**  
**PA Consulting welcome**

**09.50-10.20**  
**Balfour Beatty**

**10.30-11.00**  
**Influencing SatNavs - a view from local highways**  
Elgin

**11.10-11.40**  
Costain

**11.50-12.20**  
**Role of cyborg ethnography in urban mobility and cities**  
Atkins

**12.30-13.00**  
AECOM

**13.10-13.40**  
**Roadway Analytics – getting useful information from big traffic data**  
Inrix

**13.50-14.20**  
**Transforming productivity with new technology**  
Plangrid

**14.30-15.00**  
**Hybrid infrastructure– supporting the adoption of CAV**  
TRL

**15.10-15.40**  
Thales

**MATERIALS & MAINTENANCE**

**MPA MATERIALS INNOVATION HUB** 

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**10.40 – 11.30**  
**Safety pitches**

**13.00 – 13.45**  
**Judges reflections and awards**

**TARMAC MATERIALS & ASSET MANAGEMENT DOME** 

Latest thinking in materials, pavement engineering and maintenance

**09.50-10.20**  
**Pothole guide**  
ADEPT/DfT

**10.30-11.00**  
**SMART local highways & AV live labs initiative**  
ADEPT

**11.10-11.40**  
**Measuring and monitoring the condition of our highway network, SRN and local.**  
Local Government Technical Advisors Group

**11.50-12.20**  
**Future ready and resilient; a 30-year outlook**  
Tarmac

**12.30-13.00**  
**Whole life costing and long-term thinking in materials and pavement engineering**  
Tarmac

**13.50-14.20**  
**Road Space Utilisation Tool to manage the time, impact and frequency of road works**  
HTMA

**14.30-15.00**  
**HTMA Sustainability Charter – key performance indicators** HTMA

**15.10-15.40**  
**Street Manager briefing** DfT

**SAFETY & PEOPLE**

**A-ONE+ SAFETY THEATRE** 

Ensuring roads are safe to work and travel upon

**10.15-10.45**  
**If U Care Share workshop**

**10.45-11.30**  
**Using VR as a safety training and safety awareness tool**  
Highlighting an innovation project between TRL and Highways England that used virtual reality to prevent incidents involving commercial vehicles on the SRN  
Lessons from the water sector in driver training and behaviour **Steve Havvas**, Anglian Water

**11.45-12.45**  
**Road User Safety: Best practice across the road network**

**14.00-15.00**  
**Road Worker Safety: Best practice across the road network**

**15.00-15.30**  
**The safety implications of machine vision and CAVs**  
**Andy Fish**, technical director, 3M

**CIHT THEATRE** 

Industry briefings from the Chartered Institution of Highways and Transportation

**09.00**  
**Coffee, breakfast and welcome**  
**Adrian Hull**, Chair, CIHT West Midlands

**09.30-10.20**  
**CIHT Corporate Partner Engagement Session**  
Led by **Chris Young** and **Phil Salter**

**10.30-11.20**  
**Diversity & Inclusion – routes into the profession**  
**Louise McCann**, Winner of Best Women in Highways WICE Awards 2018  
**Melanie Clarke**, Customer Service Director of Operations, Highways England  
**Jodie Rowbottom**, Head of Development, Birmingham Airport & Vice Chair CIHT West Midlands  
**Nicola Blane**, Winner of CIHT's Young Professionals of the Year 2018

**11.30-12.20**  
**CIHT Futures – The future for transport planners**  
**Lyn Basford**, Managing Director, Dominic Lawson Bespoke Planning

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