

## Big thinking

TURNING BIG THINKING INTO OPPORTUNITY

### Jacobs Theatre

#### SESSION 1

09.30-09.50 Ministerial address

09.50-11.00 Lessons learnt from RIS 1 and priorities for RIS 2

09.50-10.10 Highways England's progress and priorities

Jim O'Sullivan; chief executive, Highways England

10.10-10.50 Perspectives on fulfilling the Road Investment Strategy objectives

Tricia Hayes, DG Roads, DfT  
Anthony Smith, chief executive, Transport Focus

John Larkinson, interim chief executive, ORR

10.50-11.10 The road ahead; how Highways England's Digital Roads vision will help us deliver a safer, more efficient road network

Elliot Shaw, executive director, strategy and planning, Highways England

#### SESSION 2

11.45-12.45 Sub-national Transport Bodies

Join leaders from sub-national transport bodies representing regions across the UK to discuss how future transport investment can boost the economy and help people and businesses reduce their impact on the environment

Rupert Clubb, Transport for the South East

Barry White, Transport for the North

Maria Machancoses, Midlands Connect

Martin Tugwell, England's Economic Heartland

Tricia Hayes, DG Roads, DfT

#### SESSION 3

14.00-15.00 Ten years after... a broad range of perspectives on ambitions for our roads in 2030

Scotland's trunk road priorities

Roy Brannen, Chief Executive, Transport Scotland

How the Future Generations Act (2015) is starting to influence thinking around Welsh Roads

James Price, chief executive, Transport for Wales

Sophie How, Future Generations Commissioner for Wales

The UK Connected and Automated Mobility Roadmap to 2030

Daniel Ruiz, Chief Executive, Zenzic  
How we get the workforce we need  
Sue Percy, Chief Executive, CIHT

#### SESSION 4

15.30-15.45 UN's Sustainable Development Goals in a roads and transport context

Jo da Silva, Global International Development Leader, Arup

15.45-16.00 Why roads matter – what should we be measuring?

Kate Barker, economist and NIC Commissioner

16.00-17.00 The challenge of beautiful roads

The road to good design set out Highways England's design vision and principles of good design. In it, Mike Wilson shared the aspiration that, as well as being safe, efficient and affordable, our roads should also be beautiful. Hear from the Highways England design panel responsible for taking forward these aspirations through the Beautiful Roads programme

Mike Wilson, Chief Highway Engineer and Chair of the Strategic Design Panel, Highways England

Martin Knight, Founder, Knight Architects

Sarah Weir, Chief Executive, Design Council

John Lyall, Chair, Highways England Design Review Panel

### Burgess Salmon Stage

11.15-11.30 The future is bright, the future of insight

How Highways England is using customer insight to improve service now, and shape the roads of the future

Pete Martin, Customer Service Standards Director, Highways England

11.35-12.05 Roads information thought leadership panel

Hosted by Anthony Smith, Chief Executive, Transport Focus

12.05-12.20 Insights on measuring Highways England's performance

Richard Coates, Deputy Director of Highways, ORR

12.30-12.45 Understanding risk and reward

Chris Jackson, Partner Burges Salmon

12.55-13.10 Procuring innovation

Alasdair Reisner, Chief Executive, CECA and Hannah Vickers, Chief Executive, ACE

13.20-13.35 How agile thinking can help the roads sector

David Oliver, Partner, PA Consulting

13.45-14.00 Big thinking from big cities, radical ideas on mobility from around the world

John Batten, Global Cities Director, Arcadis

14.10-14.25 The solution is people

Duncan Elliott, Managing Director, Galliford Try

14.35-14.50 The future is digital but make sure it's not blind faith

Paul Campion, CEO, TRL

15.00-15.15 Infrastructure implications of the European General Safety Regulations

New vehicle safety regulations will be mandatory from 2022. Deal or no deal, measures under consideration could have far reaching implications for the design and maintenance of roads infrastructure

TRL

15.25-15.40 Transforming design through digital

Everyone is talking about digital - but what does it really mean and what are the critical enablers for success in transforming design

Lesley Waud, Design Development Director, Atkins

15.50-16.05 Evolution through successive Smart Motorway delivery projects

Tony Slater, Smart Motorway Director, Balfour Beatty

16.15-16.30 Bringing innovation to strategic roads network

Paul Gott, Highways MD, Morgan Sindall

16.40-16.55 Business transformation beyond technology and data

Taking a business transformation journey towards greater industry collaboration and unlocking the sector's full innovation potential

Gareth Parkes, Company Knowledge Manager, Sir Robert McAlpine

## Road owner hubs

STRATEGIC, REGIONAL, LOCAL AND URBAN

### Highways England Theatre

11.30-11.55 Efficiencies and innovation – LEAN

12.30-12.55 Engaging with HE – launch of CECA's supplier's guide for Tier 1s and SMEs

13.00-13.25 Smart Motorways Update

13.30-13.55 How Highways England is preparing for connected and automated vehicles

Wayne George, National Network Strategy Group, Highways England

14.00-14.25 The new Asset Delivery model and how we'll be investing in highway renewal and capital maintenance

Damien Morris, Programme Manager - Operations RIS2, Highways England

15.00-15.25 One year into the Regional Delivery Partnerships model – tips for the supply chain on working with Highways England

David Haines, Regional Investment Programme Director, Highways England

15.30-15.55 Concrete Roads

Craig Bedson, Head of Technical Services, Highways England

16.00-16.25 Putting safety first

16.30-16.55 Winter Fleet management

Gary Webb, Highways England

### Transport Scotland Hub

Meet and network with senior representatives from Transport Scotland, with scheduled presentations on:

- Transport Scotland's approach to air quality and Low Emission Zones
- Developing a resilient network in landslide vulnerable locations – the A83 Rest & Be Thankful case study
- Supporting major events – transport planning and delivery for the Solheim Cup 2019 at Gleneagles

### STB Hub

13:00-13:15 Transport for the North  
What does a good deal look like for a road user in the north?

13:25-13:40 Midlands Connect  
Corridor approaches

13:50-14:35 Joint STB session: TfN, MC, Transport East, Western Gateway  
MRN Today

14:45-15:00 Peninsula Transport  
Economic Connectivity Review

15:15-15:30 Transport for the South East

Is freight the UK's Cinderella sector?  
Mark Valleley, Technical Lead

Transport for the South East  
Adrian Hames, Director, WSP

15:45-16:00 England's Economic Heartland

Connecting Places

Naomi Green, Head of Technical Programme England's Economic Heartland

16:15-16:30 Transport East  
Introducing Transport East

16:45-17:00 Western Gateway  
MRN schemes

### Local Authority Hub

11.30-13.00 New developments in road access for use and maintenance

Daniel Anderton, Ringway; Will Young, Ringway Jacobs; Clare Burke, Elgin; Sally Kendall, DfT; Paul Chandler, DfT; Mark Kemp, ADEPT

13.30-14.15 Maximising the 'co' in collaboration

Dom Proud, LGTAG; Clive Hall, Herefordshire County Council

14.30-15.30 How to build the business case for resilience

Jon Munslow, South Gloucestershire Council; Sarah Reeves, TRL; Hugh Gillies, Transport Scotland

10.00-11.00 Are we ready for an emergency?

Peter Lee, BSI; Sarah Reeves, TRL; John Lamb, LGTAG; Dom Donini, Cumbria County Council

### Future Urban Mobility Hub

Improving air quality in our towns and cities is the major driver for new thinking in urban mobility. Learn how the UK's cities are responding to the challenge

## Intelligent infrastructure

DIGITAL TECHNOLOGY FOR FUTURE PROOFING ROADS

### PA Consulting Technology Theatre and Big Data Hackathon

Innovations in highways applications of digital and connected technologies

11.30-12.00 People and the machines – AI from hype to reality

Jennifer Cable, people and talent expert, PA Consulting  
With intro/welcome by Charlie Henderson, Partner, PA Consulting

12.15-12.40 The Future of Advanced Traffic Management  
TRL

12.50-13.15 US case study: achieving efficiency through cloud-based collaboration tools

Creating an almost unprecedented atmosphere of trust and cooperation on the I-95 Express Lanes Southern Terminus Extension, Virginia, USA  
Josh Progar, Manager, Global Technical Solutions, Autodesk/PlanGrid

13.35-13.50 Why engagement is broken (and how we fix it)

James Woodcock, Managing Consultant, PA Consulting

14.00-14.25 BIM workflow - Using the right tool at the right time

Vincent Bester, Managing Director, Civil Designer UK

14.35-15.00 Deploying a digital twin and the digital roads agenda

Adrian Malone, Head of Digital Project Delivery, WSP

13.35-13.50 Why engagement is broken (and how we fix it)

James Woodcock

15.45-16.10 How new data sources are helping to transform transport demand forecasting

David Sweeney, Director, O2 Motion

16.15-17.00 Hackathon highlights and insights

### Zenzic Connected and Automated Vehicle Hub

Curated by Zenzic, a series of invited industry experts offer insights on the infrastructure related blockers and enablers on the road map to connected and automated vehicles

### Costain Intelligent Infrastructure Challenge

Showcasing finalists from the 2019 Intelligent Infrastructure Challenge, the format includes elevator pitch presentations and cross examination by industry expert judges. Competition categories cover:

- Design, construction and asset management
- Operations
- Road user experience
- Energy and the environment
- Safety

### Innovation Lounges

Three industry supported showcases for innovations curated by Innovate UK, IET and HEA

# Programme

6 NOVEMBER 2019

## Programme 6 NOVEMBER 2019

### Civil infrastructure

INNOVATIONS IN MATERIALS, COMPONENTS AND PROCESSES

#### Tarmac Civils and Materials Dome

Applications of civil engineering and materials innovations in the highways sector

**11.45-12.10 How innovation can help address the UK's road construction challenges**

Brian Kent, National Technical Director, Tarmac

**12.30-12.55 How NOT to design highway drainage in the 21st century**

Joanna Bradley, Market Development Manager, SDS Limited

**13.15-13.40 Warm mix asphalt: reducing carbon emissions and improving efficiencies**

Asphalt Industries Alliance

**14.00-14.25 Are your traffic management plans safe and legal?**

Kealie Franklin, General Secretary, ARTSM

**14.45-15.10 Applications of intelligent technology and innovation in asset management**

Reg Cook, Head of Operations, Talent

**15.30-15.55 Silverstone Case Study**

Tim Smith, Contracting Technical Lead, Tarmac

**16.05-16.30 Self-healing graphene**

Dr Ioanna Papanikolaou, Business Development Manager, Costain

**16.35-17.00 Technical innovations that helped deliver pavement efficiency gains in RIS 1**

Jon Cole, Head of Pavement Efficiency and Productivity, Highways England and James Burdall, Associate Director, AECOM

#### AECOM Civils and Materials Innovation Hub

Showcasing finalists from the 2019 AECOM Civils and Materials Innovation Hub, the format includes elevator pitch presentations and cross examination by industry expert judges. Competition categories cover:

- Road pavements from surface course to subgrade
- Other elements of road projects
- Resilience, sustainability and waste reduction
- Health, safety and well-being
- Asset management and maintenance

### Sustainability and people

MAKING THE HIGHWAYS SECTOR RESILIENT AND SUSTAINABLE

#### Sustainability theatre

Driving a radical rethink of "business as usual"

**11.30-11.55 The zero-carbon highway – the designer's perspective**

David Symons, UK Director of Sustainability, WSP

**12.15-12.40 The zero-carbon highway – the roadbuilder's perspective**

Skanska

**14.00-14.25 The UK's Greenest Road**

Tom McArthur, Director, The Ecology Consultancy

**14.40-15.05 Biodiversity and Net Gain**

Skanska

**15.15-15.40 Taking an end-to-end practical approach to sustainable transport**

Sukhy Duggal, Client Director, Atkins

**15.55-16.20 A new data-driven approach to road safety**

How data will help us on the road to zero  
Andrea Green, Customer Experience Director, Costain

**16.35-17.00 iRAP star rating for road design – background and application**

Chris Furneaux, Associate Director, Arup  
Speaker from the Road Safety Foundation

#### CIHT Hub

Learn, meet and engage with CIHT and its partners

**12.00-12.20 Welcome: Shaping Tomorrow Today**

Martin Tugwell, President, CIHT  
Improving connectivity creates opportunities for all and puts the work of highways professionals at the very heart of society and shaping people's futures

**12.30-13.20 Panel: Better Planning for Better Transport**

New advice puts the integration of transport and planning at the centre of transport policy and design

**13.30-14.20 Celebrating people**

Re-engineering the future. A lunchtime reception celebrating workforce diversity

**14.30-15.20 Professional development – making the difference**

CIHT's new Chartered Transport Planning Professional scheme explained and how professional development can improve both an individual and an organisation

**15.30-16.00 CIHT Skills & Training Award**

Sharing best practice on effective investing in skills and training

#### HUK Laureates Awards and Dinner

Honoring and celebrating the extraordinary achievements exhibited by key individuals in the UK highways sector

## Big thinking

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### Jacobs Theatre

#### SESSION 5

**09.30-11.00 A strategic future for local authority roads**

**09.30-09.45 Keynote: Darryl Eyers, President, ADEPT**

**09.45-10.15 Highways Sector Deal Briefing in the context of local authority roads**

Neil Gibson, Immediate Past President, ADEPT  
Dave Ogden, Business Director (Highways), Amey  
Brian Fitzpatrick, Fitzpatrick Advisory

**10.30-11.00 Panel: what is the opportunity from breaking the orthodoxy and overcoming the barriers and challenges that to date have limited reform of the local highway network?**

#### SESSION 6

**11.45-12.45 De-bunking the myths and other misunderstandings surrounding the roll-out of infrastructure to support the electric vehicle revolution**

Phillip New, CEO, Energy Systems Catapult  
Graeme Cooper, Head of EV Energy, National Grid  
Vicky Edmonds, joint Head OLEV, DfT  
Dan Pike, Consultant, Octopus Energy  
David Hytch, Advisor, Franklin Energy  
Ross Fairley, Partner, Burges Salmon

#### SESSION 7

**14.00-15.00 New thinking in urban mobility**

Perspectives on how UK cities are tackling air quality, congestion, the transition to a low carbon economy and access to housing and opportunity while better connecting places, communities and opportunities

#### Cardiff's EV transition

Andrew Gregory, Director of Environment, Planning and Transport at Cardiff City Council  
Tom Morgan, Client Development Director Arcadis

#### Transitioning to a low carbon mobility future

Alistair Hunter, director, Arup

**Rethinking the use of urban road space in a return to people-centred, connected places and communities**  
Kate Kenny, Growth Director for London and Cities, Jacobs and Carlo Castelli, Head of Cities Solutions, Jacobs

### Burges Salmon stage

**09.20-09.30 Welcome**  
Chris Jackson, Partner Burges Salmon

**09.30-09.45 Shaping future infrastructure – why smart, connected infrastructure is the next game changer for the industry**  
Richard Stuart, Highways Sector Director, Costain

**09.50-10.05 Emulating the success of other industries**  
Malcom Dare, Executive Director, Commercial and Procurement, Highways England

**10.15-10.35 Future ready roads**  
What are the emerging environmental, social and technology issues which will be relevant for the highways of the future?  
Giles Perkins, Head of Future Mobility and Rachel Skinner, UK Head of Development, WSP

**10.45-11.00 It's more than just building roads...**  
James Haulch, Highways Managing Director, Amey

**11.10-11.25 How to make sense of the future in an uncertain and fast-changing world**  
Elizabeth de Jong, Director of UK Policy, Freight Transport Association

**11.35-11.50 Achieving a step change in efficiency in major highways projects**  
Jon Cole, Head of Pavement Efficiency and Productivity, Highways England and James Burdall, Associate Director, AECOM

**12.00-12.15 Air pollution and noise control**  
Canadian research and development company offers a global overview of approaches to reducing air pollution and traffic noise along transportation corridors  
Scott Shayko, CEO, EnvisionSQ

**12.25-12.55 Helping local authority highways teams better understand and respond to climate risks**  
Nigel Riglar, Vice President, ADEPT / Director for Environment and Community Services, South Gloucestershire Council  
John Lamb, President LGTAG

**13.05-13.20 Rethinking approaches to pricing roads**  
Richard de Cani, Global Planning Leader, Arup

**14.00-14.15 Helping Local Authorities access DfT bid funding**  
Matthew Lugg, Head of Profession, Local Government WSP; CIHT Immediate Past President

**14.25-14.40 Building an asset management culture**  
Gary Fitch, Divisional Director, Asset Management Advisory, Jacobs with Buckinghamshire CC

## Road owner hubs

STRATEGIC, REGIONAL, LOCAL AND URBAN

### Highways England Theatre

**09.30-09.55 Skills**  
David O'Neill, Head of Supply Chain, Highways England

**10.30-11.00 Welcome and careers advisors**  
Malcom Dare, Executive Director, Commercial and Procurement, Highways England  
Mel Clarke, Director of Customer Service, Highways England

**11.00-11.25 Customer centric roadworks**  
David McCann and Nicola Waite, Communications and Engagement Manager, Highways England

**11.30-11.55 Caring for vulnerable users**  
Mel Clarke, Director of Customer Service, Highways England  
Julian Horsler, Equality Diversity and Inclusion Manager, Highways England

**12.00-12.25 Safety Campaigns**  
Annemarie Hennesey, Head of Marketing, Highways England

**12.30-12.55 Designated Funds**  
Ivan Le Fevre, Head of Environment

**13.00-13.25 Design Manual for Roads and Bridges**  
Paul Doney Director of Innovation and Continuous Improvement, Highways England

**14.00-14.25 RIS3 – setting the agenda for the future, and discussing priorities in coming 12 months**  
Adam Simmons, Director, Strategy and Planning, Highways England

**14.30-15.50 Schools discovery trail**

### Transport Scotland Hub

**Meet and network with senior representatives from Transport Scotland, with scheduled presentations on:**

- Transport Scotland's approach to air quality and Low Emission Zones
- Developing a resilient network in landslide vulnerable locations – the A83 Rest & Be Thankful case study
- Supporting major events – transport planning and delivery for the Solheim Cup 2019 at Gleneagles

### STB Hub

**09:30-10:00 England's Economic Heartland**  
Outline Transport Strategy  
Martin Tugwell, Programme Director  
Naomi Green, Head of Technical Programme

**10:10-10:40 Transport East**  
The UK's Global Gateway

**10:50-11:20 Transport for the South East**  
The end of 'predict and provide': A new approach to transport strategy development  
Cllr Keith Glazier, Chair  
Mark Valleley, Technical Lead

**11:30-12:15 Women in Transport Networking Event**  
Networking session for Women in Transport, supported by WSP

**12:30-13:00 Western Gateway MRN Schemes**

**13:10-13:50 Joint STB session: TfSE, EEH, Peninsula Transport**  
MRN: Beyond 2025

**14:00-14:30 Midlands Connect**  
Corridor approaches

**14:40-15:10 Peninsula Transport**  
Economic Connectivity Review

**15:20-15:50 Transport for the North**  
East-West Connectivity

### Local Authority Hub

**11.45-12.30 The Transport Data Initiative – an LA Story part 2**  
David Aimson and Tom Middleton, Buckinghamshire County Council

**12.45-14.00 Putting community choice at the heart of resilience**  
Hannah Budnitz, University of Birmingham; Dom Proud, LGTAG; James Gleave, Mobility Lab UK

**14.15-15.30 What colour is your Umbrella? – Climate change readiness**  
Dom Proud, LGTAG; Elodie Huiban, Institution of Civil Engineers; Felicia Jackson, School of Oriental and African Studies; tbc, Southampton City Council

### Future Urban Mobility Hub

**Improving air quality in our towns and cities is the major driver for new thinking in urban mobility. Learn how the UK's cities are responding to the challenge**

## Intelligent infrastructure

DIGITAL TECHNOLOGY FOR FUTURE PROOFING ROADS

### PA Consulting Technology Theatre and Big Data Hackathon

**Innovations in highways applications of digital and connected technologies**

**09.30-09.55 Digitalisation in the Highways sector**  
Stelios Rodoulis, Jacobs and James Atkinson, Causeway Technologies

**10.10-10.35 From smart motorways to digital roads**  
Louise Lawrence, Director, Intelligent Mobility and Smart Technologies, Atkins

**10.55-11.20 Data, data everywhere but not a drop to drink.**  
Reflecting on the current and future states of road based mobility data for use in the strategic control of managing networks, future mobility service provision and personalisation of journeys  
Marc Roberts, Consultant, Chordant

**11.35-12.00 Embedding digital approaches and intelligent infrastructure into Highways schemes**  
Ellie Wilson, Head of Digital Transformation, Balfour Beatty

**12.15-12.40 International experience in the use of artificial intelligence for the control and optimisation of road construction projects**  
Dr Housseem Jerbi, CEO, Smart PMO

**13.00-13.25 Case study: Digital delivery innovations on Manchester North West Quadrant**  
Rob Mullin, Divisional Director and MNWQ Deputy Project Manager, Jacobs

**13.40-14.05 Incentivising innovation and better management of the network**  
Nathan Watts/Emma Chester, Atkins

**14.15-14.40 Integrating BIM in highways temporary works applications**  
Steve Hesketh, co-founder, Temporary Works Forum and Engineering Director, MGF

### Zenzic Connected and Automated Vehicle Hub

**Curated by Zenzic, a series of invited industry experts offer insights on the infrastructure related blockers and enablers on the road map to connected and automated vehicles**

### Costain Intelligent Infrastructure Challenge

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### Innovation Lounges

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# Programme

7 NOVEMBER 2019

## Programme 7 NOVEMBER 2019

### Civil infrastructure

INNOVATIONS IN MATERIALS, COMPONENTS AND PROCESSES

#### Tarmac Civils and Materials Dome

Applications of civil engineering and materials innovations in the highways sector

**09.30-09.55 Innovations in bitumen technology**  
Gary Schofield, Technical Manager, Total Bitumen

**10.15-10.40 Highways applications of incinerator bottom ash**  
Fortis IBA

**11.00-11.25 Case study: AI applied to road asset condition inspections**  
US firm RoadBotics' artificial intelligence technology offers a potentially game changing alternative to detailed visual inspections. The session looks at the outputs from early UK trials with TfL and Westminster council.  
Harry Broster, FM Conway

**11.45-12.10 Automating high risk maintenance tasks**  
TRL

**12.30-12.55 Concrete innovation – roller compacted concrete**  
Tarmac

**13.15-13.40 Best practice in contracting solutions**  
Rick Ashton, UK Market Development Manager, Total Bitumen

**14.00-14.25 Low volume asphalt for potholes, patching and utility reinstatements**  
Hayden Davie, Technical Sales Engineer, Jobling Purser

**14.40-15.10 Quality control of readymix concrete during transit**  
Verifi

#### AECOM Civils and Materials Innovation Hub

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- Asset management and maintenance

### Sustainability and people

MAKING THE HIGHWAYS SECTOR RESILIENT AND SUSTAINABLE

#### Sustainability theatre

Driving a radical rethink of "business as usual"

**09.30-09.55 EV charging on the SRN**  
TRL

**10.10-10.35 Air quality health risks to road-side workers**  
Mark Stacey, Managing Director, Crown International

**10.50-11.15 Particulate matter emissions from tyres and brake wear**  
Dr Ross Hunter, Senior Director, Temple Group

**11.30-11.55 Engaging People for Productive Places**  
Adrian Hames, Director, WSP

**12.15-12.40 A Common framework for social value**  
Skanska

**13.30-13.55 Measuring the social value of highways operations and projects**  
Peter Ives, Sustainability Manager, Skanska

**14.15-14.40 Developments in air quality monitoring and reduction**  
TRL

#### CIHT Hub

Learn, meet and engage with CIHT and its partners

**09.30-10.20 Partnering with CIHT**

Outlining opportunities to partner effectively with CIHT and realising the benefits for organisations and their employees

**10.30-11.20 Funding and governance of local highway infrastructure**  
Latest thinking around a sector deal for highways and how this could improve local highways

**11.30-11.50 Collaboration in practice**  
Winners of the CIHT Collaboration Award highlight how working together made a real improvement to project delivery

**12.00-12.30 Manual for Streets**  
Details on the latest update to this seminal guidance document

**12.40-13.45 Professional development – making the difference**  
CIHT's new Chartered Transport Planning Professional scheme explained and how professional development can improve both an individual and an organisation