

# Seminar Programme

## Overview - Day 1

# 18<sup>TH</sup> NOV 2020

### Policy and Supply Chain Development

- 09:45 - 10:45** | Keynotes - Official Opening of Cenex LCV  
**11:00 - 12:15** | Power Electronics, Machines and Drives - Driving the Electric Revolution  
**- LUNCH -**  
**13:00 - 14:15** | Batteries - Developing a UK Supply Chain  
**14:30 - 16:05** | LEV Policy and Implementation



### Advanced Propulsion Technical Talks

- 09:45 - 10:45** | Design, Engineering and Test  
**11:00 - 12:15** | Decarbonising Freight, Off-road and Marine  
**- LUNCH -**  
**13:00 - 14:15** | Power Electronics, Machines and Drives  
**14:30 - 16:00** | Batteries and Fuel Cell



### Connected Automated Mobility

- 09:45 - 10:45** | Official Opening of Cenex CAM  
**11:00 - 12:15** | Trust Frameworks for CAM  
**- LUNCH -**  
**13:00 - 14:15** | Verification and Validation (1)  
**14:30 - 16:00** | Verification and Validation (2)  
**16:00 - 18:30** | Wayra sponsored Intelligent Mobility Accelerator Demo Day \* **W** wayra



### UK Government Pavilion Partners

- 09:00 - 09:30** | Welcome from DIT and Overview of the Automotive Ecosystem  
**09:45 - 10:45** | An Introduction to LowCVP and Electric Vehicle Energy Taskforce  
**11:00 - 12:00** | CAV and Weather Impacts  
| Oxbotica Case Study  
**- LUNCH -**  
**13:00 - 14:15** | APC - The Story So Far  
**14:30 - 15:00** | Welcome from Driving the Electric Revolution (DER)  
**15:15 - 15:45** | An Introduction to the UK Battery Industrialisation Centre (UKBIC)  
**16:00 - 16:30** | Overview of the Automotive Ecosystem

PLEASE NOTE: Seminar content and timings may be subject to change

# Seminar Programme

## Overview - Day 2

# 19<sup>TH</sup> NOV 2020

### Energy for Transport

- 09:45 - 10:45** | Strategies for Transport Infrastructure  
**11:00 - 12:15** | Learning from Demonstrators - V2G  
**- LUNCH -**  
**13:00 - 14:15** | Technical Innovations in EVSE  
**14:30 - 16:00** | Transport for Smart Cities  
**16:00 - 17:15** | Low Emission Vehicles - Updates from Around the Globe



### Future Transport & Energy Challenges Technical Talks

- 09:45 - 10:45** | Charging Behaviours  
**11:00 - 12:15** | EVs and the Electricity Network  
**- LUNCH -**  
**13:00 - 14:15** | Shared, Sustainable and Inclusive Mobility  
**14:30 - 15:30** | CHARGE: Refuelling Tomorrow's Electrified Transport  
**16:00 - 17:05** | Innovations in E-Mobility - Korea *Sponsored by DIFA*



### Connected Automated Mobility

- 09:45 - 10:45** | Learning from Testbeds  
**11:00 - 12:15** | Learning from Demonstrations  
**- LUNCH -**  
**13:00 - 14:15** | CAM Technology and Policy Developments (1)  
**14:30 - 16:00** | CAM Technology and Policy Developments (2)  
**16:00 - 17:00** | The Leading Innovators in UK CAM \*\* **ZENZIC**<sup>®</sup>



### UK Government Pavilion Partners

- 09:00 - 09:45** | Automotive Electrification  
**10:00 - 10:30** | Transport Energy Network - Cross-sector Energy and Propulsion Roadmaps  
**11:00 - 12:30** | The Road to Digitalisation  
Pathways to Net Zero Mobility: Automotive Council Roadmaps 2020  
**- LUNCH -**  
**13:00 - 13:30** | Faraday Battery Challenge - Innovating Towards Net Zero  
**13:45 - 14:15** | Geospatial Commission - Location Data and Technologies to Support Transport Challenges  
**14:30 - 15:00** | Batteries for Cross Sector Electrification – Targets, Challenges and Priorities  
**15:15 - 16:00** | Driving the Electric Revolution- Industrialisation Centres  
**16:15 - 17:00** | Automotive Electrification

MORNING

09:45 – 10:45

**Keynotes – Official Opening of Cenex LCV****Chair's Introduction**

Dennis Hayter, Chairman, Cenex

**Ministerial Introduction**

Rt Hon Rachel MacLean MP, Parliamentary Under Secretary of State, Department for Transport

**The Changing Face of Automotive**

Graham Hoare, Chairman, Ford UK

**Matching UK Performance to UK Ambition**

Mike Hawes, CEO, SMMT

**Exploring the Transition to Zero through R&D and Innovation**

Ian Constance, CEO, APC

**Innovate UK and the Innovation Ecosystem**

Paul Gadd, Deputy Director, Land Transport, Manufacturing and Materials, Innovate UK

**Panel Q&A**

11:00 – 12:15

**Power Electronics, Machines and Drives – Driving the Electric Revolution**

11:00 - 11:05

**Chair's Introduction**

Will Drury, DER Challenge Director, Driving the Electric Revolution

11:05 - 11:20

**Introduction to DER Centres, Industry and Capability Linkage**

Rachel Chambers, Chief Operating Officer, Driving the Electric Revolution Industrialisation Centres

11:20 - 11:35

**Passenger Car Electrification Opportunities to 2025**

Dave OudeNijeweme, Head of Technology Trends, APC

11:35 - 11:50

**Challenges and Opportunities for the UK Power Electronics Supply Chain**

Dr Alastair McGibbon, Business Development Manager, CSA Catapult

11:50 - 12:05

**Opportunities for PEMD in EVs and Beyond**

Simon Price, CEO, Exawatt

12:05 - 12:15

**Panel Q&A**

# Policy and Supply Chain Development

AFTERNOON

## 13:00 – 14:15 Batteries – Developing a UK Supply Chain

### 13:00 - 13:05 Chair's Introduction

Steve Carroll, Head of Transport, Cenex

### 13:05 - 13:20 The Batteries are Coming: Reflections on the Faraday Battery Challenge to Date and a Look to the Future

Tony Harper, Director, Faraday Battery Challenge

### 13:20 - 13:35 UK Open Access Battery Technology Facility

Jeff Pratt, Managing Director, UKBIC

### 13:35 - 13:50 Future Scenarios of Net Demand for Lithium-ion Battery Metals

Dr Marco Raugei, Senior Research Fellow, Oxford Brookes University

### 13:50 - 14:05 How to Build a Giga-factory

Robin Foster, Technical Lead Engineer, HSSMI

### 14:05 - 14:15 Panel Q&A

## 14:30 – 16:05 LEV Policy and Implementation

### 14:30 - 14:35 Chair's Introduction

Rob Anderson, Senior Fleet Specialist, Cenex

### 14:35 - 14:50 Supporting the Road to Net-Zero

Natasha Robinson, Joint Head, OLEV

### 14:50 - 15:05 How Local Authorities Could Accelerate ULEV Uptake

David Philipson, Technical Specialist, Cenex

### 15:05 - 15:20 Policies to Accelerate the Adoption of Electric Vehicles in the UK: a Behavioural Perspective

George Beard, Head of ULEV Consumer Research, TRL

Toby Park, Head of Energy and Sustainability, Behavioural Insights Team

### 15:20 - 15:35 Volkswagen: Plugged in

Oliver Larkin, Head of Group Corporate and PR, Volkswagen Group UK

### 15:35 - 15:50 Electrifying the Leeds Fleet

Tom Cowen, EV Trials Service Manager, Leeds City Council

### 15:50 - 16:05 Panel Q&A

09:45 – 10:45

**Design, Engineering and Test Technical Talks****HOST** - Bradley Yorke-Biggs, CEO & Professor of Practice, IDE UK

09:45 - 10:00

**Development of Integrated Virtual and Physical Testing Methodologies for Future Propulsion Systems**

Parvez Akhtar, Advanced Propulsion System Research &amp; Development, IAAPS, Bath University

10:00 - 10:15

**High Speed Test Rigs for E-Machine Development**

Tom Sharp, Head Of Design, Compact Orbital Gears Ltd

10:15 - 10:30

**Advanced Design and Optimisation of a Low Cost, High Performance Electric Drive System for Passenger Car Applications**

Dilraj Sehmi, Analyst, E-drive Engineering

10:30 - 10:45

**Fuel Cell Vehicle Analysis and Development with Model-Based Design**

Tom Kigezi, Systems Engineer, AVL Powertrain

11:00 – 12:15

**Decarbonising Freight, Off-road and Marine****HOST** - Nick McCarthy, Technical Specialist, Cenex

11:00 - 11:15

**Decarbonising Road Freight**

Dr Despina Yiakoumi, Transport Analyst, Energy Systems Catapult

11:15 - 11:30

**Hydrogen Mobility – Solutions for Heavy Duty Vehicle Segments**

Dr Ben Todd, CEO, Arcola Energy

11:30 - 11:45

**Outcomes of The UK Low Emission Freight and Logistics Trial**

Brian Robinson, Commercial Vehicle Emissions Consultant, LowCVP

11:45 - 12:00

**Low Carbon Vessels and Low Carbon Vehicles – Exciting Similarities, Important Differences**

Adam Chase, Director, E4Tech

12:00 - 12:15

**Decarbonisation of Marine Public Transport How Councils can Work with Local Businesses to Develop New Low Carbon Transport Options and the Role in their Development**

Dan Turner, Low Carbon City Officer, Plymouth City Council

# Advanced Propulsion – Technical Talk

AFTERNOON

## 13:00 – 14:15 Power Electronics, Machines and Drives Technical Talks

**HOST** - Paul Jarvie, Network Director, AESIN

**13:00 - 13:15**

**Advanced Manufacturing Methods for Power Electronics, Electric Machines and Drives**

Steve Nesbitt, Technical Lead - Construction Innovation Hub, MTC

**13:15 - 13:30**

**The Worlds Most Sustainable Traction Motor?**

Dr James Widmer, Founding Director, Advanced Electric Machines

**13:30 - 13:45**

**Development of Advanced WBG Solutions for the Electrification Era**

Ingo Lüdtke, Head of Power Electronics, Compound Semiconductor Applications Catapult

**13:45 - 14:00**

**The Future of PEMD**

Stephen Lambert, Head of Electrification, McLaren

**14:00 - 14:15**

**Recycling of Rare Earth Magnets from End of Life Vehicles**

Allan Walton, Reader in Processing of Magnetic Materials, Birmingham University

## 14:30 – 16:00 Batteries and Fuel Cell Technical Talks

**HOST** - Jorden Van Der Hoogt, Technical Specialist, CenexNL

**14:30 - 14:45**

**What to Consider when Choosing a Lithium-ion Battery Pack**

Stephen Irish, Founder and Commercial Director, Hyperdrive Innovation

**14:45 - 15:00**

**Carbon-Ion Technology for Ultra-Fast Charging**

Stephen Voller, Chairman and CEO, Carbon-Ion Energy Storage Ltd

**15:00 - 15:15**

**Codifying Good Practice in the UK in the Manufacturing of Electric Vehicle Batteries - from Electrolyte and Cell, to Module and Pack and through to Vehicle Design**

Jacqui Murray, Deputy Challenge Director, Faraday Battery Challenge

**15:15 - 15:30**

**I-CoBaT- Battery Immersion Cooling for Ultra Fast Charging and High-Performance Applications**

Dr Cedric Rouaud, Global Technical Expert - Thermal Systems, Ricardo

**15:30 - 15:45**

**EV Battery Degradation, and Conditions that Impact Degradation**

Joshua Gordon, EV Strategy Lead, Geotab

**15:45 - 16:00**

**Hydrogen Fuel Cell Solutions for all Transport Market Applications**

Dr Lee Juby, Chief Sales Officer, Intelligent Energy

# Connected Automated Mobility

MORNING

## 09:45 – 10:45 Official Opening of Cenex CAM

09:45 - 09:50

### Ministerial Introduction

Rt Hon Rachel MacLean MP, Parliamentary Under Secretary of State, Department for Transport

09:50 - 10:00

### Connected and Automated Mobility: State of Development and Future Opportunities in the UK

Mike Hawes, CEO, SMMT

10:00 - 10:10

### The UK CAM Vision and Opportunities Ahead

David Skipp, Director, Partnerships & Innovation, Automotive Council ICAM

10:10 - 10:20

### 2020 Mobility Needs - Putting the User First

Neil Fulton, Chief Operating Officer, Connected Places Catapult

10:20 - 10:30

### Achieving Excellence in CAM on the World Stage through Collaboration – the UK Way

Daniel Ruiz, CEO, Zenzic

10:30 - 10:35

### CCAV at 5: How Government is Enabling UK CAM

Iain Forbes, Head of the UK Government's Centre for Connected and Autonomous Vehicles, CCAV

10:35 - 10:45

### Q&A - Moderated by Geoff Davis, Chief Strategy Officer, Horiba-MIRA

## 11:00 – 12:15 Trust Frameworks for CAM

11:00 - 11:10

### Escaping Trolleys - Recommendations on Ethics for the Development and Deployment of Automated Vehicles

Nick Reed, Founder, Reed Mobility

11:10 - 11:20

### Getting the Legal Engineering Right for Connected Automated Mobility

Julian Wilkins, Consultant Solicitor with Smithfield Partners and Associate of Q Chambers, Smithfield Partners

11:20 - 11:30

### Using Predictive AI to Build Trust between People and AVs

Raunaq Bose (CTO), Humanising Autonomy

11:30 - 11:40

### UK Leadership in the Safety of Automated Vehicles

Nick Fleming, Head of Transport & Mobility, BSI Standards

11:40 - 11:50

### Building Trust in Automated Vehicles

Jessica Uguccioni, Lead Lawyer, Law Commission  
Jenny Laber, Deputy Head, CCAV

11:50 - 12:15

### Q&A - Moderated by Nick Reed, Founder, Reed Mobility Inc. Ed Axon, Global Head of Business Development, Trov Mobility

This session will review the key policy considerations that will shape the development of a regulatory framework that ensures stakeholder and societal trust in CAM in the UK.

# Connected Automated Mobility

AFTERNOON

## 13:00 – 14:15 Verification and Validation (1)

This session will share current thinking from the Automotive ICAM on use of digital engineering for the Verification and Validation of CAM.

13:00 - 13:10

### CAM TestBed UK and Scenario Based Testing

Chris Reeves, Head of CAV Technologies, Horiba-MIRA

13:10 - 13:20

### Considerations for the Development of a Digital Framework Methodology for Assured Autonomy

Kevin Vincent, Director, Centre for Connected and Autonomous Automotive Research Institute For Future Transport and Cities, Coventry University

13:20 - 13:30

### Engineering. The Future. Digitalisation: The Transformation of Engineering

Bradley Yorke-Biggs, CEO, Institute of Digital Engineering UK (IDE)

13:30 - 13:40

### Government's CAVPASS Programme for Ensuring CAV Safety and Security

Michael Dunkley, Head of Safety Policy, CCAV

13:40 - 14:15

**Q&A** - Moderated by Kevin Vincent Director, Centre for Connected and Autonomous Automotive Research Institute For Future Transport and Cities, Coventry University

## 14:30 – 16:00 Verification and Validation (2)

This session will provide updates on progress and results with the key R&D projects helping to showcase the emerging approaches to accelerated low cost V&V for CAM.

14:30 - 14:45

### Assessing Scenarios at Scale

James McCallion, Senior Connected and Autonomous Vehicles Engineer, HORIBA MIRA

14:45 - 15:00

### OmniCAV: A Simulation and Modelling System that Enables "CAVs for All"

Mark Brackstone, Project Manager for OmniCAV, Aimsun

15:00 - 15:15

### CertiCAV: Developing a Framework for Assurance of CAV Safety

Zeyn Saigol, Principal Technologist, Connected Places Catapult

15:15 - 15:30

### Multi-Car Collision Avoidance Conclusion and Future CAVWAY Connected Vehicle Testing

Dr Charlie Wartnaby, Chief Engineer, Applus IDIADA

15:30 - 15:45

### UK's National Scenario Database: Cornerstone of CAV Safety Assurance Process

Dr Siddhartha Khastgir, Head of Verification & Validation, Intelligent Vehicles, WMG, University of Warwick

15:45 - 16:00

**Q&A** - Moderated by Chris Reeves, Head of CAV Technologies, Horiba-MIRA



UK Government Pavilion Partners

AFTERNOON MORNING

Agenda:		
09:00	Welcome from DIT	Lawrence Davies, Chief Advisor Automotive team, DIT
09:15	Overview of the UK Automotive Ecosystem	Jay Nagley, R&D Specialist - Automotive Team, DIT
BREAK		
09:45	An Introduction to LowCVP	Andy Eastlake, James McGeachie, Jason Doran - LowCVP
10:00	Followed by questions	
10:15	Electric Vehicle Energy Taskforce	Andy Eastlake, LowCVP
10:30	Followed by questions	
BREAK		
11:00	CAV and Weather Impacts	Richard Morris, Lead for Connected and Autonomous Vehicles, Innovate UK
11:15	Followed by questions	
11:30	Oxbotica Q&A	Graeme Smith, Senior VP of External Affairs, Oxbotica
11:45	Followed by questions	
BREAK		
13:00	APC – Story So Far How we're Driving the UK's Transition to Net-zero	Zoe Hall, Head of Competitions and Projects Philippa Oldham, Stakeholder Engagement Director
13:05	Core Competitions and Projects Overview and Case Studies	Jo Evans, Strategy and Performance Director Josh Denne, Head of SME Programme
13:25	Technology Developer Accelerator Programme (TDAP) Overview and Case Studies	Julian Hetherington, Director of Automotive Transformation Jon Beasley, Director - Technology and Projects
14:00	Followed by questions	Ian Constance, CEO APC
BREAK		
14:30	Welcome from Driving the Electric Revolution (DER)	Mark Urbanowski, Innovation Lead for Driving The Electric Revolution
14:45	Followed by questions	Garry Wilson, COO, Driving The Electric Revolution Industrialisation Centre
BREAK		
15:15	An Introduction to the UK Battery Industrialisation Centre	Nick Sheppard, Module and Pack Lead, UK Battery Industrialisation Centre
15:45	Followed by questions	
BREAK		
16:00	Welcome from DIT	Lawrence Davies, Chief Advisor Automotive team, DIT
16:15	Overview of the UK Automotive Ecosystem	Jay Nagley, R&D Specialist DIT Automotive, DIT
16:30	CLOSE	

# 19<sup>TH</sup> NOV 2020

## Seminar Programme

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### Day 2



MORNING

**09:45 – 10:45 Strategies for Transport Infrastructure**

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|----------------------|--|
| <b>09:45 - 10:00</b> | <b>Key Considerations for Building an EV Infrastructure Strategy</b><br>Jacob Roberts, Infrastructure Strategy Specialist, Cenex   |
| <b>10:00 - 10:10</b> | <b>Accessible Charging for all, Ensuring Growth Beyond the Driveway</b><br>Chantal Shearing, EV Infrastructure Lead, Steer   |
| <b>10:10 - 10:20</b> | <b>Electric Vehicle Charging Infrastructure for Suburban and Rural Communities and Settlements - Results from a Feasibility Study from Harbury, Warwickshire</b><br>Mike Woollacott, Managing Director, Greenwatt Technology |
| <b>10:20 - 10:30</b> | <b>Connecting More Chargepoints: Tools for Next-Generation Planning and Roll-out</b><br>Adrian Vinsome, Product Manager, EA Technology   |
| <b>10:30 - 10:45</b> | <b>Panel Discussion</b>  |

**11:00 – 12:15 Learning from Demonstrators – V2G**

- |                      |  |
|----------------------|--|
| <b>11:00 - 11:15</b> | <b>A Brief History of V2G</b><br>Chris Rimmer, Infrastructure Strategy Lead, Cenex   |
| <b>11:15 - 11:25</b> | <b>V2G in the Domestic Sector - Powerloop</b><br>Albena Ivanova, Powerloop Project Manager, Octopus EV                             |
| <b>11:25 - 11:35</b> | <b>Smart Charging for a Greener Grid, Smaller Bills and a Happy Customer</b><br>Valts Grintals, Senior Flexibility Analyst, Kaluza |
| <b>11:35 - 11:45</b> | <b>Achieving “Net Zero” with Vehicle-to-Grid Technology</b><br>Peter Shearman, Head of Innovation, Cisco                           |
| <b>11:45 - 11:55</b> | <b>What happens when Streets are Full of EVs and V2G?</b><br>Mike Potter, CEO & Founder, CrowdCharge Ltd                           |
| <b>11:55 - 12:15</b> | <b>Panel Discussion</b>  |

13:00 – 14:15 Technical Innovations in EVSE	
13:00 - 13:15	<b>An Overview of EVSE Innovations and Focus on Wireless Charging</b> Matt Knight, Hardware Trials & Data Integration Lead, Cenex
13:15 - 13:30	<b>Energy Superhub Oxford - Accelerating Oxford's Zero Carbon Journey</b> Tim Rose, Programme Manager Energy Superhub Oxford, Pivot Power
13:30 - 13:45	<b>Optimisation of Zero Emission Bus Infrastructure: Electric Bus Opportunity Charging Case Study</b> Peter Weldon, Senior Consultant, Ricardo Energy & Environment
13:45 - 14:00	<b>Fuelling the Future, Today: Hydrogen Refuelling Solutions from FCSL</b> Beth Dawson, Major Projects Manager, Fuel Cell Systems Ltd
14:00 - 14:15	<b>Panel Discussion</b>

14:30 – 16:00 Transport for Smart Cities	
14:30 - 14:45	<b>Concepts of Future Energy Networks</b> Greg Payne, Modelling & Simulation Lead, Cenex
14:45 - 15:00	<b>e-mobility in a Smart Local Energy System</b> Matthew Lumsden, CEO, Connected Energy
15:00 - 15:15	<b>Electric Vehicles: Moving From Early Adopters to Mainstream Buyers</b> Chris Pateman-Jones, CEO, ConnectedKerb
15:15 - 15:30	<b>How EVs got Smart</b> Evie Trollove, Innovation Project Lead, UK Power Networks
15:30 - 15:45	<b>Green Hydrogen and the Future of Large-Scale EV Charging</b> Andrew Cunningham, Managing Director, GeoPura
15:45 - 16:00	<b>Panel Discussion</b>

**16:00 – 17:15****Low Emission Vehicles – Updates from Around the Globe****16:00 - 16:05****Host**

Keith Budden, Head of Business Development, Cenex

**16:05 - 16:15****Zero Emission Mobility - USA**

Jeff Allen, Executive Director, Forth

**16:15 - 16:25****Electric Vehicles in India - 2 and 3 Wheelers**

Alekhya Datta, Fellow &amp; Convenor (E&amp;F Division), TERI

**16:25 - 16:35****Low Carbon Mobility in Vietnam**

Son Pham Thai, Senior Lecturer in Urban Economics, VGU

**16:35 - 16:45****E-Mobility in South Africa**

Hiten Parmer, Director, uYulio eMobility Programme

**16:45 - 17:00****Panel Discussion****17:00 - 17:15****Launch of Global Sustainable Mobility Partnership**

Robert Evans, Cenex

Esther Van Bergen, CenexNL

Hiten Parmer, uYilo

Jeff Allen, Forth

**09:45 – 10:45    Charging Behaviours**

	<b>HOST</b> - Chris Cox, Head of Energy Systems and Infrastructure, Cenex
<b>09:45 - 10:00</b>	<b>Using Large Scale Simulation to Support Decarbonisation of Passenger Fleets</b> Dave Williams, Solutions Director, Immense
<b>10:00 - 10:15</b>	<b>Where do People Charge?</b> John Murray, Head of EVs, Delta-EE
<b>10:15 - 10:30</b>	<b>Human Switch - Turning Data in to Fleet Advice</b> Dr Rebecca Roberts, Head of Solutions, EV8 Technologies, Human Switch- Turning Data into Fleet Advice
<b>10:30 - 10:45</b>	<b>Harmonising DC Charging</b> Tomoya Imazu, Head of Technical Committee, CHAdeMO Association, e-Mobility/ Project Promotion Group, Tokyo Electric Power Company Holdings

**11:00 – 12:15    EVs and the Electricity Network**

	<b>HOST</b> - Sagar Mody, Technical Specialist, Cenex
<b>11:00 - 11:15</b>	<b>EVs in Future Energy Systems</b> Dr Chris Horne, Commercial Director, MyEnergi
<b>11:15 - 11:30</b>	<b>EVSE for VPPs</b> Alan McCleave, Country Manager, Shell New Motion
<b>11:30 - 11:45</b>	<b>EV Centred Local Energy System</b> Mehmet Emre, Technology and Innovation Consultant, UK Power Networks Services
<b>11:45 - 12:00</b>	<b>Roadmap for Grid integration of EVs</b> Dr Claire Weiller, VP Business Development, PRE
<b>12:00 - 12:15</b>	<b>Leading Smart Charging</b> Lennart Verheijen, Innovation Manager, GreenFlux

**13:00 – 14:15 Shared, Sustainable and Inclusive Mobility**
**13:00 - 13:15****HOST** - Beth Morley, Mobility Project Manager, Cenex**Learning to Share**

Beth Morley, Mobility Project Manager, Cenex

**13:15 - 13:25****Mobility as a Service: Sharing Vehicles in Time of Pandemics**

Dr. Maurizio Catulli, Senior Researcher – Smart Mobility Unit, University of Hertfordshire

**13:25 - 13:35****From Car Clubs to MaaS**

Ben Lawson, Vice President of Strategy and Project Development for Europe, Enterprise Holdings

**13:35 - 13:45****Implementing Shared Mobility in Bulgaria**Elitsa Panayotova, Coordinator, Sofia Green  
Mariyana Hamanova, Co-Chairperson, Cleantech Bulgaria**13:45 - 13:55****Why Mobility-as-a-Service Makes More Sense to Walkers than Drivers?**

Simon Davis, General Manager, OX

**13:55 - 14:05****Electric Mobility and Equity**

Alexa Diaz, Programme Manager, Forth

**14:05 - 14:15****ZE Mass Transit Solutions**

Sergey Chistov, Technical Director, Wave Industries

**14:30 – 15:30 CHARGE: Refuelling Tomorrow's Electrified Transport**
**Introduction to Event and Project Update & Smart Charge Trials**

Geoff Murphy, Project Lead, SPEN

**ConnectMore**

Elaine Meskhi, Senior Consultant, EA Technology

**Transport Model Overview**

Laurence Chittock, Associate Transport Modeller, PTV

**Heatmaps Demo Video**

Elaine Meskhi, Senior Consultant, EA Technology

**Summary and Handover to UKPN**

Geoff Murphy, Project Lead, SPEN

**Optimise Prime**Sung Pil Oe, Innovation Project Lead | James Bracegirdle, Optimise Prime  
Programme Manager, Optimise Prime**Panel Q&A** - with UKPN & SPENinc. Paul Barnfarther, Head of Electric Vehicle Infrastructure, EA  
Technology

16:00 – 17:05

Innovations in E–Mobility – Korea

*Sponsored by DIFA*

16:00 - 16:05

**Welcome and DIT Introduction**

Mike Welch, Director, DIT Seoul

16:05 - 16:20

**Development of Electrified Vehicles in South Korea**

Namwook Kim, Professor, Hanyang University

16:20 - 16:35

**Hyundai Mobis' Electrification Solutions for xEVs**

Ahn Byung Ki, Senior Vice President, Hyundai Mobis

16:35 - 16:50

**New Charging Solution for High Rise Apartment (Residential Buildings)**

Youngsuk Choi, CSO, Charzin

16:50 - 17:05

**Closing Statements**

Daegu City / DIFA



## MORNING

## 09:45 – 10:45 Learning from Testbeds

	<b>HOST</b> - Frances Williamson, Business Development and Stakeholder Manager, Zenzic
<b>09:45 - 09:55</b>	<b>Connectivity, Complex Systems and Corellation - Insights and Examples from 12 Months as a CAV Testbed</b> Peter Stoker, Chief Engineer - Connected and Autonomous Vehicles, Millbrook
<b>09:55 - 10:05</b>	<b>The Role of a Fenced-Test Site in Building Trust in CAM. What we have Learnt from Hosting Level 4 Vehicle Trials</b> Garry Staunton, Lead Technologist, RACEVAEA
<b>10:05 - 10:15</b>	<b>CAM Testing, Simulating and Innovating in London</b> Richard Cuerden, Director, TRL Academy, Smart Mobility Living Lab
<b>10:15 - 10:25</b>	<b>Public Realm CAM Testing: A look at the Key Features and Lessons from Midlands Future Mobility</b> John Fox, Programme Director - Midlands Future Mobility, Warwick University
<b>10:25 - 10:45</b>	<b>Panel Q&amp;A</b> - Moderated by Frances Williamson, Business Development and Stakeholder Manager, Zenzic

## 11:00 – 12:15 Learning from Demonstrations

<b>11:00 - 11:10</b>	<b>Project Endeavour - Public Road Trials of Pop-Up Autonomy</b> Dr Graeme Smith, Senior Vice President, External Affairs, Oxbotica
<b>11:10 - 11:25</b>	<b>Real World Trials of Aurigo Pods, Shuttles and Dollies</b> Miles Garner, Sales & Marketing Director, Aurigo
<b>11:25 - 11:35</b>	<b>A Tool to Generate Guidance and Support from Local Governments in Smart Mobility Implementation Projects</b> Iris Ruysch, Director of Spatial Strategies, Future Mobility Network
<b>11:35 - 11:45</b>	<b>User Perspective on Driverless Shuttles as Last-Mile Connection to Public Transport - Insights from the Hub Chain Field Trial in Osnabrück</b> Helga Jonuschat, Director New Mobility, Dornier International Consulting
<b>11:45 - 11:55</b>	<b>Emerging Conclusions from UK Trials and Demonstrations - A Five Year Review</b> David Webb, Head of Innovation at Centre for Connected and Autonomous Vehicles, CCAV
<b>11:55 - 12:15</b>	<b>Panel Q&amp;A</b> - Moderated by Hana Caselton, Future Mobility Programme Manager, Transport for London Inc. Ahmed Hashish, Business Development Manager, Smart Mobility

# Connected Automated Mobility

AFTERNOON

13:00 – 14:15

## CAM Technology and Policy Developments (1)

**HOST** - Robert Evans, CEO, Cenex

13:00 - 13:10

### **Cost Effective Efficient Solution, ArchiTek Intelligence for Processing Sensor Data Embedded with the Sensor**

Hassan Toorabally, CIO, ArchiTek

13:10 - 13:20

### **Centimetre-Level Accuracy in Challenging GNSS Environments: Lessons from Testing in Birmingham**

Robert Gough, Product Engineer, OxTS

13:20 - 13:30

### **RoadLoc - A Solution for Ground-Truth Vehicle Localisation**

Dr Tim Lukins, Co-founder & CTO, Machines with Vision

13:30 - 13:40

### **The Role of Local Authorities in the CAM Future**

Dr George Economides, Future Mobility Team Leader, Oxfordshire County Council

13:40 - 13:50

### **The Future of Parking is Automated: Why AVP is More Realistic than Robotaxis**

Dr Brian Holt, Head of Department, HD Maps, Parkopedia

13:50 - 14:15

**Panel Q&A** - Moderated by Robert Evans, CEO, Cenex

# Connected Automated Mobility

AFTERNOON

14:30 – 16:00 CAM Technology and Policy Developments (2)	
14:30 - 14:40	<b>Making AVs a Commercial Reality</b> Chess Stetson, CEO, dRISK.ai Limited
14:40 - 14:50	<b>An ADAS Sensor Fusion Hardware-in-the-Loop (HIL) Workbench as part of the Automotive Design Process for Autonomous Vehicles</b> Robin Irwin, Managing Director Northern Europe, Konrad Technologies UK
14:50 - 15:00	<b>Solving a Fundamental Challenge for the Autonomous Vehicle Industry: Delivering Quality Training and Test Data, More Quickly and Cost-Efficiently using Driving Simulation</b> Matt Daley, Managing Director, rfPro
15:00 - 15:10	<b>Perception Module Test and Validation for Autonomous Vehicle</b> Vitaliia Laznikova, Data Science Engineer, AVL
15:10 - 15:20	<b>Accelerating Virtual Validation for Automated Vehicles using Data-Driven Optimization</b> Eric Chan, Founder, CAVPoint.ai
15:20 - 15:30	<b>The Connected Vehicle : Next Generation Testing &amp; Validation Protocol Development</b> Guillaume Stecowiat, Technical Projects Manager, UTAC Ceram
15:30 - 15:40	<b>The Molly Problem</b> Bryn Balcombe, Director, ADA Innovation Lab & Chair FG-AI4AD, ADA Innovation Lab
15:40 - 15:50	<b>Building Confidence in CAV Sensor Performance in Different Weather Conditions</b> Andre Burgess, Strategic Partnerships, National Physical Laboratory
15:50 - 16:00	<b>Panel Q&amp;A</b> - Moderated by Fergus Worthy, General Manager, Scotland - Cenex

DAY 2 - 19<sup>TH</sup> NOV

# Zenzic Seminar: The Leading Innovators in UK CAM

AFTERNOON

16:00 – 17:00 Zenzic Seminar: The Leading Innovators in UK CAM	
16:00 – 16:05	Introduction from David Webb, Head of Innovation at CCAV
16:05 – 16:10	Introduction from Dr Richard Porter and Kieran Borrett from Plug & Play as they Discuss the CAM Scale Up Programme in More Detail
16:10 – 16:40	Hear from our shortlisted SMEs and what it means to them being part of the CAM Scale Up Programme
16:40 – 16:45	Discussion Panel
16:45 – 17:00	Live Q&A

**\*\* Separate registration required: [www.zenzic.io/camscaleup](http://www.zenzic.io/camscaleup)**

# DAY 2 - 19<sup>TH</sup> NOV

## UK Government Pavilion Partners

AFTERNOON MORNING

Agenda:		
09:00	<b>Automotive Electrification</b>	Martin Wood, Supply Chain Specialist, DIT
09:30	Followed by questions	Julian Hetherington, Automotive Transformation Director, APC
BREAK		
10:00	<b>Transport Energy Network – Cross-sector Energy and Propulsion Roadmaps</b>	Gloria Esposito, Head of Projects, LowCVP
10:15	Followed by questions	Philippa Oldham, Stakeholder Engagement Director, APC Penny Atkins, Principal Research Fellow, University of Brighton
BREAK		
11:00	<b>The Road to Digitalisation</b>	Kenny Maddock, Digitalisation Roadmap Manager, IDE
11:15	Followed by questions	
11:30	<b>Pathways to Net Zero Mobility: Automotive Council Roadmaps 2020</b>	Dave OudeNijeweme, Head of Technology Trends, APC
12:15	Followed by questions	Jon Regnart, Automotive Trend Strategist, APC
BREAK		
13:00	<b>Faraday Battery Challenge – Innovating Towards Net Zero</b>	Dr Anna Wise, Head of Battery Technology, Innovate UK
13:20	Followed by questions	Dr Gary Kendall, Founder, CDO2 Dr Loubna El Ouatani, Director of Product, Echion Technologies Dr Cedric Rouaud, Global Technical Expert - Thermal Systems, Ricardo
BREAK		
13:45	<b>Geospatial Commission - Location Data and Technologies to Support Transport Challenges</b>	Steve Sopp, Relationship Manager and SBRI lead
14:00	Followed by questions	Abigail Page, Head of Skills and Innovation Karla Jakeman, Innovation Lead for Connected Transport, Innovate UK
BREAK		
14:30	<b>Batteries for Cross Sector Electrification – Targets, Challenges and Priorities</b>	Martin Dowson, Head of Battery Systems Engineering and Research, WMG, University of Warwick & APC Energy Storage Spoke
14:45	Followed by questions	Anna Wise, Head of Battery Technology, Innovate UK
BREAK		
15:15	<b>Driving the Electric Revolution - Industrialisation Centres</b>	Garry Wilson, COO, Driving The Electric Revolution Industrialisation Centre
BREAK		
16:15	<b>Automotive Electrification</b>	Martin Wood, Supply Chain Specialist, DIT
16:45	Followed by questions	Julian Hetherington, Automotive Transformation Director, APC
17:00	CLOSE	