

Flying High: Shaping the Future of Drones in UK Cities

Monday 23 July 2018, Nesta

 @nesta_uk | @Challenge_prize | #FlyingHigh

Agenda

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| 17.30 – 18.00 | Registration and refreshments |
| 18:00 – 18.05 | <p>Welcome and introduction</p> <p>Tris Dyson, Executive Director, Challenge Prize Centre, Nesta</p> |
| 18:05 – 18.30 | <p>Shaping technology for a better future</p> <p>Paul Clarke, Chief Technology Officer, Ocado
 Andrew Tyrer, Challenge Director of Robots for a Safer World Challenge, Innovate UK
 Tris Dyson, Executive Director, Challenge Prize Centre, Nesta</p> |
| 18:30 – 18.40 | <p>Flying High city snapshots</p> <p>Iain Macbeth, Head of Foresight, Transport for London
 Lucy Gosling, National Management Trainee, West Midlands Combined Authority
 John O'Hare, Policy Officer, Office of the Chief Executive, City of Bradford Metropolitan District Council
 Darren Ansell, Space and Aerospace Engineering Lead, School of Engineering, University of Central Lancashire
 Pete Boustred, Service Manager, Strategic Transport, Southampton City Council</p> |
| 18:40 – 19.15 | <p>The opportunities and challenges of drones in cities</p> <p>Andrew Carter, Chief Executive, Centre for Cities
 David Lawson, Director of Procurement, Guy's and St. Thomas' NHS Foundation Trust
 Dave Walton, Deputy Chief Fire Officer, West Yorkshire Fire & Rescue Service
 Mark Westwood, Technical Director, Transport Systems Catapult
 Jessica Russell, Programme Manager, SmarterUK
 Georgina Voss, Co-Founder and Director, Strange Telemetry
 <i>Moderated by: Olivier Usher</i>, Research Manager, Challenge Prize Centre, Nesta</p> |
| 19.15 – 19.30 | Audience Q&A |
| 19.30 – 20.30 | Drinks reception and networking |

Biographies



Tris Dyson, Executive Director, Challenge Prize Centre, Nesta

Tris leads on the development of the Challenge Prize Centre as a hub for expertise and insight on challenge prizes that deliver beneficial innovations. He also aims to generate and share learning on the design and use of challenge prizes. Before joining Nesta, Tris co-founded and led Spice, a social enterprise that developed time credits as systematic low cost and sustainable methodology for engaging many more people in communities as active participants in 'co-producing' public and community services. Previously, Tris was also the director of a social action think tank - The Wales Institute for Community Currencies at the University of Wales, Newport. Other roles include founding Chair of Timebanking Wales, and Founding Director of Consultancy 3rdMinds.



Paul Clarke, Chief Technology Officer, Ocado

Paul is Chief Technology Officer at Ocado, the world's largest online-only grocery retailer. After joining Ocado in 2006, Paul initially worked on warehouse control systems and then joined the team designing Ocado's next highly automated fulfilment centre. After establishing new teams for Simulation and Mobile development, Paul then co-wrote the first of Ocado's award winning mobile apps. Paul's current role includes exploring opportunities to use Ocado's technologies to disrupt other sectors and the technology vision and future proofing of the business. Paul read Physics at Oxford University before then entering the computer industry. He has worked in software engineering, consultancy, interim management and a number of software start-ups.



Andrew Tyrer, Challenge Director of Robots for a Safer World Challenge, Innovate UK

Andrew is currently leading the Governments £93m ISCF robotics programme being delivered by UK Research and Innovation. He joined the DTI on secondment from the National Physical Laboratory, to run the Network Security Innovation Platform in April 2006. He transferred to the Technology Strategy Board (Innovate UK) in July 2007. Andrew has been responsible for numerous research programmes in including Privacy and Consent, Information Infrastructure Protection, and Trusted Services. He represented Innovate UK on a House of Commons select committee on the use of Biometric Data, and in 2014 he was made Head of Enabling Capabilities. Since April 2018, he has been the Deputy Director for the ISCF Robotics Challenge and remains its Interim Director. Prior to joining Innovate UK Andrew worked for Serco Science where he managed business development for the Division of Enabling Metrology at NPL, and Serco Technology.



Iain MacBeth, Head of Foresight, Transport for London

Iain leads the Automotive & Intelligent Mobility team within Transport for London's Innovation Directorate, focussing on engagement with the automotive sector and Connected & Autonomous Vehicles.

This includes TfL's relationship with car manufacturers and automotive suppliers, policy and strategy development, including emerging models such as Mobility as a Service (MaaS), and the promotion of Ultra Low Emission Vehicles. Iain represents TfL on the UK Automotive Council Technology Group and the European Commission GEAR2030 Group developing the roadmap for the deployment of automated road transport.



Lucy Gosling, National Management Trainee, West Midlands Combined Authority (NGDP)

Lucy is on the Local Government Association's national graduate development programme at the West Midlands Combined Authority (WMCA) and City of Wolverhampton Council. She has spent a year working in WMCA's Transport Innovation team, exploring new mobility solutions to network challenges – including drones. As well as being the regional lead for the Flying High Challenge, she has had the opportunity to see the launch of Midlands Future Mobility and the UK's first mobility as a service package in the West Midlands.



John O'Hare, Policy Officer, Office of the Chief Executive, City of Bradford Metropolitan District Council

John is a Policy Officer at the City of Bradford Metropolitan District Council and has led on Bradford's involvement in the Flying High Challenge. John has a background in customer service and has 15 years' experience in Local Government with a keen interest in technology and innovation. John has been inspired by the Flying High Challenge and is currently advocating for the use of drones across the council in order to encourage more innovative delivery of council services.



Darren Ansell, Space and Aerospace Engineering Lead, School of Engineering, University of Central Lancashire (UCLan)

Darren has been the Space and Aerospace Engineering Lead in the School of Engineering, University of Central Lancashire (UCLan) since September 2012. At UCLan, Darren leads the Aerospace Engineering degree courses, and is leading a number of UAV research projects developing autonomous, intelligent software for the aerospace industry. He leads UCLan's Civic Drone Centre which focuses upon developing civil drone applications. He has led drone projects in the fields of industrial inspection, search and rescue, mine clearance, agriculture, swarming, novel materials and air quality measurements. His research interests include autonomous and intelligent systems and software, and he previously spent fourteen years working in the aerospace industry at in research management and research and development roles, specialising in Mission Systems and Autonomy for Unmanned Aerial Vehicles.



Pete Boustred, Service Manager, Strategic Transport, Southampton City Council

Pete is responsible for the development of transport policy as well as the implementation of an ambitious programme of improvements to the city's transport system. The city has big ambitions for growth and Pete's transport team is responsible for ensuring transport can support strong and sustainable economic growth as well as ensuring Southampton is an attractive and modern city. The Flying High Challenge has been a great opportunity for Southampton to demonstrate its ambition to be innovative and the strength in its partnerships with industry and research institutes.



Andrew Carter, Chief Executive, Centre for Cities

Andrew became Chief Executive of the Centre in April 2017. Before that he was the Deputy Chief Executive and Director of Policy and Research with overall responsibility for the Centre’s research and policy programme. Andrew has over 20 years of experience working on urban economic policy issues for public and private development agencies, consultants and research institutes. He has also spent time in the US as part of the Churchill Foundation’s Fellowship Programme reviewing urban economic development policy and practice in American cities including New York, Washington DC, Boston and Chicago. He is a regular media contributor and chairs and speaks at conferences across the UK and Europe on a wide range of urban and economic issues.



David Lawson, Director of Procurement, Guy’s and St. Thomas’ NHS Foundation Trust

David is a procurement professional with a focus on innovation. He was awarded the European Supply Chain Excellence Award for Supply Chain Innovation in 2010 for supply chain consolidation and more recently was responsible for the first large scale deployment of automated inventory management systems outside of North America.



Dave Walton, Deputy Chief Fire Officer, West Yorkshire Fire & Rescue Service

Dave is the Deputy Chief Fire Officer of West Yorkshire Fire & Rescue Service and is responsible for Service Delivery. He joined West Midlands Fire Service in 1985, transferring to West Yorkshire in 2013 upon promotion. As an experienced Strategic Commander he has been responsible for numerous large incidents and events including the Boxing Day floods of 2016, the Yorkshire Grand Depart of the Tour de France in 2014 and numerous other emergency incidents. Dave is the co-chair of the West Yorkshire Resilience Forum, and is the National Fire Chiefs Council (NFCC) lead for Hazardous Materials and the Fire & Rescue Service (FRS) response to a Marauding Terrorist Attack. He is a member of the FRS National Resilience Board and the NFCC Operations Co-ordinating Committee. Dave was awarded the Queens Fire Service Medal in 2016.



Mark Westwood, Technical Director, Transport Systems Catapult

Mark was educated at the University of Bath, graduating with a BEng and MSc in Mechanical Engineering. During the early part of his career he was engaged in a wide variety of autonomous vehicle related research and development projects while working for QinetiQ. In 2010, he was appointed as Head of Systems Engineering for Air Division within QinetiQ, responsible for a team of Systems Engineers working across a wide range of technology projects. Mark later joined Transport Systems Catapult to lead projects developing automated and autonomous vehicle technologies. He now holds the role of Technical Director at the Transport Systems Catapult, with responsibility for development and delivery of the Technology Strategy for Intelligent Mobility, alongside leading a portfolio of autonomous vehicle related projects including the drone and driverless car domains.

**Jessica Russell, Programme Manager, SmarterUK**

Jessica is Programme Manager for SmarterUK, techUK's programme that serves to champion of smarter infrastructure in the UK. Jessica leads the smart cities and transport streams, working closely with techUK's members to support and grow their business in these dynamic industries. Jessica's transport work focuses on understanding data as a key enabler of transport, and unpacking the concept of Mobility-as-a-Service within the UK context, including identifying challenges for industry actors at the local, regional and national level. Within her Cities work, Jessica helps members understand the local government landscape in the UK and seeks to improve the capacity and capability of local government to be an informed customer of smart city solutions. Prior to joining techUK, Jessica worked with the Emerging Crimes Unit at the United Nations Interregional Crime and Justice Research Institute. Jessica holds a Bachelor of International Relations and a Master of Policing, Intelligence and Counterterrorism.

**Georgina Voss, Co-Founder and Director, Strange Telemetry**

Georgina is an anthropologist of technology and innovation systems, an artist, and writer. Her work focuses on the presence and politics of large-scale technologies and heavy industry. She is co-founder and director of research studio, Strange Telemetry; and co-founder and lead of Supra Systems Studio at London College of Communication, University of the Arts London, where she is a senior lecturer in design.

**Olivier Usher, Research Manager, Challenge Prize Centre, Nesta**

Oli is Research Manager (Technology & Innovation) in the Challenge Prize Centre. At Nesta he has participated in the development of a range of prizes, from driving innovation in aquaculture in India, to the Open Up Challenge for small business fintech solutions in the UK. He leads the Challenge Prize Centre's work to identify and scope out new topics, and has worked on projects ranging from the safety of infrastructure to assistive technology for people with paralysis to the introduction of drones in cities. He previously worked in science public relations, including a period as Public Information Officer for an ESA centre in Munich, where he coordinated European media relations for the Hubble Space Telescope. He has also worked in journalism and co-authored a popular science book, *The Universe through the Eyes of Hubble*.