

**CW Talks****'Solving 5G rural connectivity: regulation or innovation?'****12<sup>th</sup> June 2018**

The CW Talks are curated by Robert Driver of Cambridge Wireless (CW), John Haine, Visiting Professor at Bristol University and William Webb, CEO of Weightless SIG

**Venue: Digital Catapult, 101 Euston Road, London NW1 2RA**

**AGENDA**

<b>16:30</b>	Registration
<b>17:00</b>	Introduction to CW Talks from <b>Robert Driver, CEO, Cambridge Wireless (CW)</b>
<b>17:05</b>	Welcome from event host: <b>Dritan Kaleshi, Lead Technologist – Future Networks, Digital Catapult</b>
<b>17:10</b>	Welcome from <b>William Webb, CEO of Weightless SIG</b>
<b>17:15</b>	<b>Sessions to be chaired by William Webb, CEO of Weightless SIG</b> <b>'Innovating to the farthest reaches'</b> <b>Mansoor Hanif, UK5G Advisory Board Member, UK5G</b>
<b>17:45</b>	<b>'Muddled expectations: solving rural connectivity'</b> <b>Richard Feasey, Adviser, Fronfraith Ltd</b>
<b>18:15</b>	<b>Open forum</b>
<b>18:50</b>	<b>Wrap-up</b>
<b>19:00</b>	<b>End of session followed by networking, wine, beer, soft drinks and canapés</b>
<b>20:00</b>	<b>Event closes</b>

**Profile of organisers****Cambridge Wireless (CW)**

CW is the leading international community for companies involved in the research, development and application of wireless and mobile, internet, semiconductor and software technologies. With over 400 members from major network operators and device manufacturers to innovative start-ups and universities, CW stimulates debate and collaboration, harnesses and shares knowledge, and helps to build connections between academia and industry. CW's 19 Special Interest Groups (SIGs) provide its members with a dynamic forum where they can network with their peers, track the latest technology trends and business developments and position their organisations in key market sectors. CW also organises major conferences and start-up competitions along with other high-quality industry networking events and dinners. With headquarters at the heart of Cambridge, UK, CW partners with other international industry clusters and organisations to extend its reach and remain at the forefront of global developments and business opportunities. [www.cambridgewireless.co.uk](http://www.cambridgewireless.co.uk)

**UK5G**

UK5G is the new national innovation network dedicated to the promotion of research, collaboration and the commercial application of 5G in the UK. UK5G is a 'network of networks' to facilitate and encourage the engagement and coordination of organisations working on 5G activities across the UK. It will enhance links between ongoing research and development and other activities being undertaken by organisations across telecoms and other sectors, as well as the testbeds and trials that will be funded through the UK Government's 5G Testbeds and Trials Programme. It will facilitate the joining up of businesses, large and small, academic institutions and the public sector throughout the UK. UK5G is independent and impartial. A senior national advisory board will advise the Government's 5G Testbeds and Trials Programme, providing expert feedback from industry, identifying their priorities and advising on future areas of focus. UK5G will be a focal point for international engagement into the UK's 5G eco-system - encouraging international participation and investment. [www.uk5g.org](http://www.uk5g.org)

## Profile of event host

### Digital Catapult

Digital Catapult is the UK's leading advanced digital technology innovation centre. Digital Catapult drives early adoption of technologies to make UK businesses more competitive and productive to grow the country's economy. We connect large established companies, startup and scaleup businesses and researchers to discover new ways to solve big challenges in the manufacturing and creative industries. Through this collaboration businesses are supported to develop the right technologies to solve problems, increase productivity and open up new markets faster. Digital Catapult provides physical and digital facilities for experimentation and testing that would otherwise not be accessible for smaller companies. As well as breaking down barriers to technology adoption for startups and scaleups, our work de-risks innovation for large enterprises and uncovers new commercial applications in immersive, future networks, and artificial intelligence technologies. [www.digicatapult.org.uk](http://www.digicatapult.org.uk)

## Profile of CW Talks curators

### Robert Driver, CW (Cambridge Wireless) @Bob\_CWCEO

Bob Driver joined CW as the new CEO in May 2015. He is responsible for leading the development of the organisation, broadening its reach with other sectors and clusters, while retaining the unique culture and dynamism of the CW community. Bob is accountable to the CW Board. Previously Bob was Director for Technology at UK Trade & Investment [UKTI] where he successfully led teams helping UK tech companies to access overseas opportunities, and attracting tech inward investment into the UK. He also coordinated the UKTI science and innovation agenda and was responsible for the delivery of UKTI events from small missions to large trade fairs. Bob first joined UKTI in 2001 as International Trade Director for the East of England Region, based in Cambridge and in 2006 became the national UKTI Director for High Technology Sectors based in London. Prior to joining UKTI, he worked in the scientific instrumentation sector.

### Professor John Haine, Royal Academy of Engineering Visiting Professor at Bristol University

John Haine has spent his career in the electronics and communications industry, working for large corporations and with four Cambridge start-ups. His technical background includes R&D in radio circuitry and microwave circuit theory; and the design of novel radio systems for cordless telephony, mobile data, fixed wireless access and IoT communications. He has led standardisation activities in mobile data and FWA in ETSI and contributed to WiMax in IEEE. At various times he has been involved in and led fund-raising and M&A activities. In 1999 he joined TTP Communications working on research, technology strategy and M&A; and after the company's acquisition by Motorola became Director of Technology Strategy in Motorola Mobile Devices. After leaving Motorola he was CTO Enterprise Systems with ip.access, a manufacturer of GSM picocells and 3G femtocells. In early 2010 he joined Cognovo, which was acquired by u-blox AG in 2012. He led u-blox's involvement in 3GPP NB-IoT standardisation and the company's initial development of the first modules for trials and demonstrations. Now retired from u-blox he is a Visiting Professor in Electronic and Electrical Engineering at Bristol University, where he chairs the Centre for Doctoral Training in Communications. He was founder chair and is Board Member Emeritus of the IoT Security Foundation. John has a first degree from Birmingham (1971) and a PhD from Leeds (1977) universities and is a Life Member of the IEEE.

### Professor William Webb, Weightless SIG, FEng FIET FIEEE

William is an independent consultant at Webb Search and CEO of the Weightless SIG, a body standardizing a new M2M technology. He was one of the founding directors of Neul, a company developing machine-to-machine technologies and networks, which was formed at the start of 2011 and subsequently sold to Huawei. Prior to this William was a Director at Ofcom where he managed a team providing technical advice and performing research. He has worked for a range of communications consultancies and spent three years providing strategic management across Motorola's entire communications portfolio, based in Chicago. He was IET President 2014-2015. William has published 16 books, 100 papers, and 18 patents. He is a Visiting Professor at Southampton University, a Fellow of the Royal Academy of Engineering, the IEEE and the IET. He has been awarded multiple honorary doctorates by the UK's leading universities.

## Profile of speakers

### **Mansoor Hanif**

Mansoor has 24 years' experience of planning, building, optimising and operating mobile networks around the world: including France, Italy, Spain, the Middle East, Africa and the Caribbean. In 2011 Mansoor joined EE in the UK as Director of Network Integration and LTE, accountable for the Technical Launch Program for 4G as well as the Integration of the legacy 2G/3G Orange and T-Mobile networks. From 2013 he was Director of RAN, with overall responsibility for all of the EE radio access networks and was also accountable for the coverage aspects of EE's Emergency Services over LTE programme. Mansoor was a board member of MBNL (the joint venture of EE with H3G) until 2016. During the acquisition of EE by BT, he led the EE network Integration team. At BT Mansoor was Director of the Converged Networks Research Lab from 2016 to 2018 and led deep and wide collaboration with many UK Universities, researchers, innovators, government bodies such as DCMS, the NIC and industry partners. He provided regular inputs to calls for evidence from the UK Government in relation to connectivity: ranging from 5G deployment pilots, rail connectivity and transport strategy to vertical industries. In addition, Mansoor was closely involved in the foundation of several new cross-industry initiatives to accelerate innovation with disruptive technologies: in the UK, he co-founded the Scottish Innovation Partnership, and globally with the Telecom Infra Project (TIP), founding the Europe's 1st TIP ecosystem acceleration centre in the UK. Mansoor is currently a member of the Advisory Board of the UK5G Innovation Network, and the Satellite Applications Catapult and a member of the UCL Electrical and Electronic Engineering Industry Advisory Board.

### **Richard Feasey**

Richard is currently a Panel Member at the UK's Competition and Markets Authority and advises a number of public and private sector organisations. He was formerly a special adviser to the House of Lords EU Sub-Committee and is currently an adviser to the National Infrastructure Commission. He is a Research Fellow at the Centre on Regulation in Europe and lectures from time to time at University College, Kings College London and the Judge Business School. Richard had a 25-year career in the telecommunications industry and was Director of Policy at Vodafone plc between 2001 and 2014, where he was responsible for Vodafone's engagement with competition and regulatory authorities across Vodafone's global footprint. [www.fronfraithltd.com](http://www.fronfraithltd.com)