Automotive and Transport SIG
'Connected vehicles - the ultimate IoT sensor?'

Tuesday 5th July 2016

Hosted by DIGITAL GREENWICH

This SIG is championed by Andrew Ashby, Tom Blackie of **RealVNC**, John Okas of **Real Wireless** and Nigel Wall of **Climate Associates**

Venue: Digital Greenwich, 11th Floor, 6 Mitre Passage, Greenwich Peninsula, London, SE10 0ER

AGENDA

13:30	Registration and networking with refreshments
14:00	Introduction to Automotive and Transport SIG from **Andrew Ashby**
14:05	Welcome from event host, **Jemma Hoare** of **Digital Greenwich**
Session chaired by SIG Champion, Andrew Ashby	
14:15	**'The connected car and industry 4.0 – opportunities and challenges'** **Alec McCullie,** Head of Connected and Autonomous Vehicles, **KPMG LLP** Digitisation in manufacturing will combine machine learning, connectivity and real time data to drive new levels of productivity and efficiency across value chains. If the car is becoming 'the ultimate mobile device', how will this connectivity impact manufacturing? What are some of the opportunities for industry, and the barriers ahead?
14:35	Q&A
14:40	**'UK Smart Mobility Living Lab - connected and automated vehicles operating in Greenwich'** **Professor Nick Reed,** Academy Director, **TRL** In this presentation, a number of the automated vehicle projects being undertaken in the Royal Borough of Greenwich will be described and how they have been brought together by TRL under the umbrella of the UK Smart Mobility Living Lab. The rationale for this will be explained, circling back to the potential role for the connected vehicle as an IOT sensor.
15:00	Q&A
15:05	**Refreshments and networking**
Session chaired by SIG Champion, Nigel Wall of Climate Associates	
15:40	**'Connected vehicles - nearer than you think!'** **Andy Graham,** Intelligent Transport Systems (ITS) Consultant, **White Willow Consulting** Andy will show that connection to vehicles and the use of data from them is happening today, and with use cases that are far more than just better sat nav. He will also argue the need for better links between roads operators and data providers to seize the potential of IOT.
16:00	Q&A
16:05	**'Connected Vehicles and the ins and outs of IoT'** **Iain Davidson,** Product Marketing Manager, **Arkessa** Cars, Vehicles and Mass Transit systems are an essential part of our daily lives. We are all affected even if we are commuting daily. In this session we will explore how IoT tech and business models could benefit the Connected Vehicle space and likewise how vehicle sensor data can be used to help create cleaner, safer and healthier economy.
16:25	Q&A
16:30	Panel session with all speakers chaired by **SIG Champion, John Okas, Real Wireless**
17:00	**Event closes**

With the permission of the speakers, presentations will be loaded to the CW website on the day following the event

Organiser

CW (Cambridge Wireless Ltd)

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 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 the annual Future of Wireless International Conference and Discovering Start-Ups competition 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. For more information, please visit www.**cambridgewireless**.co.uk

Host

Digital Greenwich

The Royal Borough of Greenwich launched its "Smart City" strategy on the 22nd October 2015. This set out how the Council proposes to implement "smarter" approaches to coping with the challenges ahead, and to create new opportunities for businesses and local communities, securing business regeneration and growth.

Digital Greenwich is the Royal Borough of Greenwich's in-house team, setup to develop and implement its smart city strategy by:

- Leading the Council's engagement with stakeholders to develop a Service Transformation Roadmap to transform the way services are delivered.
- Advising the Council on its Ultra Fast Broadband Strategy.
- Managing an Innovation Fund to pilot new approaches and develop the business case for roll-out of innovative ideas.
- Participating as hosts and subcontractors in Connected and Autonomous Vehicles projects including GATEway autonomous shuttles (TRL), MOVE-UK CAV advanced sensors (Bosch) and MAVEN autonomous vehicle management (Dynniq) and hosting Starship Technologies delivery robots.
- Engaging with leading cities, businesses and other organisations, committed to implementing smart city concepts, to harvest the latest thinking and good practice and ensure that Greenwich itself is a hub of excellence and forward thinking in this field.
- Developing a detailed framework to measure and to report publically on a) the Borough's performance in delivering our Service Transformation Roadmap, and b) the benefits that this delivers, mapped against key performance indicators.
- Promoting citizen engagement and ensure its approach is citizen centric and rooted in neighbourhoods and communities.

For more information, please visit www.digitalgreenwich.com

SIG Champions

Andrew Ashby

Graduated in Electronic Engineering, Andrew Ashby has spent over 20 years in blue chip major semiconductor manufacturers in Field Applications, Account Management, Global Sales and Business Development roles. Since then he has held the sales director role in a Cambridge based technology start-up company and consulted in the military, automotive and transport sectors, leading automotive industry consortia and bringing together innovators, T1s and OEMs.

Tom Blackie, RealVNC

Since joining RealVNC in 2009 Tom has lead the mobile division pioneering integration of phones with in-vehicle systems. Prior to RealVNC Tom held executive positions in a number of technology companies providing revolutionary wireless and software products. Including Head of Operations at the Olivetti and Oracle Research Laboratory; Founder and VP Engineering at NASDAQ listed Adaptive Broadband; Managing Director of Audentify (a division of Autonomy Systems PLC); and COO at AIM listed Ubisense. Tom graduated in Electrical and Electronic Engineering from Napier Edinburgh and holds an MBA from Ashridge Business School. For more information, please visit www.realvnc.com

John Okas, Real Wireless

John has worked in wireless and telecommunications throughout his career. Initially with Motorola and Racal in engineering and product marketing roles. He was a founding director of NTL (now Arqiva), initially as Business Development Director building and managing the complete commercial organisation. He also managed the R&D Group which developed one of the first commercially available MPEG video compression systems. Then as Managing Director - Telecommunications he was responsible for growing NTL's wireless business and entering the fixed telecommunications and satellite services markets. Moving to Pell Frischmann the consulting engineers, he started a telecommunications business and was involved in several large transportation projects including the Highways Agency's NRTS Project which updated the motorway communication systems. Currently he operates as an independent consultant covering technical, commercial and product strategies. He works with other consultancies including Real Wireless, the independent wireless experts, who develop strategy, policy and practical solutions. John has a close interest in the IoT/M2M market within the transport sector; he worked with the Weightless SIG at its formation to help identify market requirements. For more information, please visit www.realwireless.biz

Nigel Wall, Climate Associates

Nigel Wall is an independent system engineering consultant and Director of Climate Associates Ltd: CAL helps organisations optimise ICT system design based on understanding the whole life carbon footprint cost of deploying innovative ICT technology compared to using current systems. Climate Associates are leading work with ITU-T SG5 and ETSI in standardising the analysis and in determining best practice. Nigel is also involved with Intelligent Transport Systems – "connected cars" he is the Chair of the ITS UK Communications SIG and the Land Navigation & Location Group at the Royal Institute of Navigation. For more information, please visit www.climate-associates.com

Speakers

Alec McCullie, KPMG LLP

Alec leads a team in KPMG that focuses on CAV technology and the wider impact on industry. He has over 10 years' experience in the Automotive industry, working with both OEMs and global tier 1 suppliers to design and develop next generation Powertrains and Fuel Economy strategies. Prior to joining KPMG, Alec spent several years building technology driven start-ups in the indoor positioning space, with a focus on Connected & Autonomous Vehicles, particularly around self-parking systems for indoor environments. More further information, please visit www.home.**kpmg**.com

Professor Nick Reed, TRL

Nick joined the Human Factors and Simulation group at TRL in January 2004 following post-doctoral work in visual perception at the University of Oxford and in 2014 became director TRL's Academy co-ordinating scientific activities across the business. He has led a wide variety of research studies using the full mission, high fidelity car and truck simulators with a number of published articles, conference papers, and appearances in national and international media. Nick also championed work in the area of vehicle automation at TRL, culminating in technical leadership of the GATEway (Greenwich Automated Transport Environment) project – a flagship UK Government project to investigate the implications of the introduction of automated vehicles in the urban environment. In 2015, he was awarded a visiting professorship in the Engineering and Physical Sciences faculty at the University of Surrey and is a chartered psychologist and chartered scientist. For further information, please visit www.**trl**.co.uk

Andy Graham, White Willow Consulting

Andy has 30 years' experience in intelligent transport, much of that trying to get data in and out of moving things and people to make road transport better . He project managed the UK's first sat nav pilot , the first UK use of floating car data and use of connected vehicles for road charging in the UK . He has recently started a part tome PhD on the impact of a mix of human and autonomous vehicles on UK traffic, and was a rapporteur at the ITS World Congress on automated vehicles.

Iain Davidson, Arkessa

Iain Davidson is Marketing Manager at Arkessa an award winning M2M and IoT managed service provider. This follows 20 years at BAE Systems, Motorola and Freescale in tech development and marketing roles. Iain is working on the next 50 billion connections and making it easy to connect to the IoT. For further information, please visit www.**arkessa**.com