



Nigel Wall	nw@nigel-wall.co.uk	Mob: +44 7802 204759
Position:	Director, @ Shadow Creek Consulting Ltd & Director @ Climate Associates Ltd	
Websites:	www.shadow-creek.biz ; www.climate-associates.com	
Qualifications:	CEng, FRIN, MIET, BSc	
Expertise:		

Nigel is a systems engineering consultant specialising in complex systems using fixed and mobile communications. His focus is on developing propositions to meet real customer needs, choosing the most appropriate technologies, to provide advanced services reliably and sustainably. With over 40 years of experience developing and introducing innovative telecommunications and IT services. Key technical areas include mobile and wireless networks, and location technologies and services. He has developed a niche in identifying high-level threats, risks and opportunities from an understanding of the detail of the systems being implemented. His core themes are Intelligent Transport Systems and sustainability.

Current projects include:

- “Monitoring Officer” overseeing the running of several UK Government supported Research projects for Innovate UK with more than 30 projects successfully completed. Current projects include the 3 “Driverless cars” project in which the UK government is investing £19M.
- Assessment of Innovate UK; GSA; and European Framework projects proposals.
- Part-time Director of Climate Associates Ltd (www.climate-associates.com) – working on H2020 project VICINITY which will run until 2016 to 2020 investigating the creation of open interfaces between Internet of Things eco-systems.
- Legal work to support verification of patent claims.
- Member of BSI EPL278 – ITS Standards coordination group, and active contributor as UK expert at CEN TC278 WGs 8, 15 & 16; ETSI ITS: and ISO TC204 WGs 1, 16, 17 & 18 standards.

Professional Activity:

- Chairman of the Intelligent Transport Systems UK (ITS UK) Communications Interest Group
- Chairman of the Royal Institute of Navigation (RIN) Land Navigation and Location Group,
- Member of the RIN Technical Committee
- Chair of the Transport Associates Network: www.transport-associates.net
- Cambridge Wireless – Champion of the Automotive and Transport Special Interest Group and active participant in several other groups to keep abreast of latest developments.

Recent projects include:

- He led the recently completed work on an FP7 collaborative research project “BATS” – Broadband Access by integrated Terrestrial and Satellite comms. The project addressed the European Digital Agenda challenge of providing >30Mbps to all premises in Europe – in particular those areas that are underserved by conventional systems.
- EU FP6 "SISTER" (Satellite in Support of Transport on European Roads) project, drafting communication protocol standards to allow optimal use of sat-comms and broadcast communication for Intelligent Transport Systems (ITS) within ISO TC204 WG16 CALM, drafting two standards (2008-10)
- Ofcom study of indoor location technology, working with Quotient Associates (2010)
- Provided advice to the UK Government on Information Assurance issues relating to ITS standards.(2005-10)
- Expert evaluator of GNSS Supervisory Agency (GSA) Framework 7 collaborative R&D project bids.(2011)
- Subject matter expert on the future additional transport technology and the likely new spectrum requirements arising from the predicted growth in Intelligent Transport Systems and Services (ITS) in 30 years time. In support of Plextek in preparing a report for Ofcom on new spectrum demand from new technologies supporting transport (2008)
- Invited speaker on future spectrum requirements for transport at the United Arab Emirates Middle East Spectrum Conference 2011, in Dubai.
- Joint KTN & innovITS funded projects to develop Roadmap for Location technology for ITS, and a prospectus of work needed to overcome shortcomings in the performance of GNSS systems. Range of technologies from GNSS, eLORAN, Inertial Navigation, Map Matching, UWB, to RFID and NFC (2008)
- Member of the Plextek led consortium for Ofcom contract to predict the nature of transport in 30 years’ time, assess the communications requirements arising, derive spectrum demand for wireless communications
- Provided a finance house with technical due diligence on patents relating to 3GPP controlled standards, in relation to a proposed investment by the client.

- Assisted in the creation of the Office of Science & Technology Foresight view of “Intelligent Infrastructure” (2005)
- Collaboration with the Transport Research Labs (TRL) on a DfT Horizons research project investigating the potential for “cooperative traffic signal control” to use information interchanged with individual vehicles. (2005-06)
- London Bus Services Limited, Technical Services Group, Nigel documented the current situation re Bus AVL, Countdown and driver communications systems, capturing the business requirements for service improvements and system replacement, and helped develop a 10 year business and communications strategy, (via Carl Bro)
- DTI-assisted Traffimatics project - investigating data sources in cars to support V2I applications. In partnership with BT, Nottingham Trent University and Omnitech Technology. (2002-04)

Previously employed by British Telecom from 1972 to 2001

- 1977 to 1980: Madley 1 and 2 "Standard A" Satellite Earth Stations: specification, tendering, factory tests, oversee construction, commissioning and acceptance testing, documentation and user training.
- In 1980s focus was on value add applications – Orator audio conferencing; digital feature phones; videoconferencing; and multi-service customer networks.
- In the 1990s Nigel led a team working on mobile network design and mobile data applications. This included 6 European 2nd and 3rd Framework collaborative R&D transport telematics projects. Down-streamed ideas into ETSI standards. Commercial spin-offs include O2's “TrafficLine” (dial 1200), and some key patents relating to Location Based Service.
- As head of BT's Mobile Data Systems: Nigel led BT's activity within the ETSI TETRA standardisation committees. Contributed to the PSRCP / Airwave bid strategy – leading to BT winning a £3B contract
- Special assignments included due diligence on opportunities for a BT / ARDIS joint venture to provide mobile data, and later on the opportunity to acquire Cognito.
- Programme managed BT Systems Engineering's move into the Customer Solutions business and provided thought-leadership on “mass-customisation” to the BT Group.