

### **Current posts**

Independent Consultant, Apex Economics Associate Fellow, Department of Economics, Warwick University

# **Contact details**

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# **University qualifications**

B.Sc. (Econ) First class honours, University College Wales, Cardiff, 1981
M.A. (Economics), University of Warwick, 1982
M.A. Cantab, University of Cambridge, 1986
Ph.D. Economics, University of Warwick, 1988

# **Expertise**

Regulation of telecommunication networks Models of vertical separation in telecommunications Competition cases in telecommunications and related sectors Spectrum economics: pricing and valuation models, auctions

### **Recent clients and assignments**

Telecom Italia: Co-funding of NGA networks Australia Mobile Telecommunications Association: Licence renewal terms Tele2 Sweden: Auction design Government of Bermuda: Market reviews Optus Australia: Functional separation Selex Galileo: Spectrum pricing and valuation OTE Athens: NGN and NGA networks and separation issues IDA Singapore: Spectrum pricing Ofcom: Spectrum pricing and valuation Hong Kong Broadband Network: Mobile termination and LRAIC Solaris Mobile: Pricing of satellite spectrum Australian Government: Spectrum management policies Telecom Polska: Models of separation BBC: Spectrum auction consultation

### **Recent consulting reports**

"The need for a conservative approach to the pricing of radio spectrum and the renewal of radio spectrum licences" for AMTA (Australian Mobile Telecommunications Association), 4 December 2010

"800MHz Band Auction Design: Externalities require a change to the auction design" for Tele2 Sweden, 25 November 2010

"Consultation on Draft Unified Licences" for BTRC (Bangladesh Telecommunications Regulatory Commission) December 2009 (with David Butcher Associates and HB Consultants)

"Review of spectrum pricing with reference to fixed links and trunked radio frequencies and services" for the IDA (Infocommunications Development Authority) Singapore, 17 May 2010 (with Martin Cave)

"Unbundling and the regulation of access – a brief outline of economic principles" for OTE, Greece, November 2009 (with Martin Cave)

"Calculating LRAIC for FMIC in the HKBN vs. MNOs case under determination by OFTA: The case for using HKBN company accounts to compute FMIC" for HKBN Hong Kong, 16 July 2009 (with Martin Cave)

"Regulatory Reform for 21st Century Broadband: Arguments in favour of the Structural Separation of Telstra" for Optus Australia, 2 June 2009

"The Proposed Merger of Hutchison and Vodafone: Why divestiture of some of the combined radio spectrum assets is desirable" for Optus Australia, 1 June 2009

"The 2GHz MSS bands, CGC and AIP: A Critique of Ofcom's Proposals and an Alternative Policy Proposal", for Solaris Mobile1 December 2008

"Analysis of functional separation and the impact on investment in the telecommunications sector of Poland" A report for Telekomunikacja Polska S.A. (TPSA), 3 September 2008

"Structural separation and investment in the National Broadband Network environment", A report for Optus Australia, June 2008.

# **Recent and relevant publications**

"Your call: eBay and demand for the iPhone 4" *International Journal of Business and Economics*, forthcoming 2011 (with Mike Waterson)

"Contracting across separated networks: lessons from theory and practice", *Communications and Strategies* No 4, 2007 (with Martin Cave)

*Essentials of Modern Spectrum Management* [book] Cambridge University Press, August 2007 (with William Webb and Martin Cave)

"Market prices boost efficiency" Policy Tracker, pp. 10-12, March 2007

"Collective Dominance, Market Analysis and the 2002 EU Framework Directive: The case of mobile access and call origination in Ireland" in *Digital Economic Dynamics: Innovations, Networks and Regulations*, edited by Paul J.J. Welfens and Mathias Weske, chapter 7 pp. 141-170, Springer Press 2007

### **Recent and relevant presentations**

"ICT and the Digital Divide: Does it Matter?" *ESRC-CAGE Workshop on Inequality* University of Warwick 6 July 2011

"The socio-economic imperatives of achieving broadband for all" Forum Europe Conference *Every European Digital: the Challenge of Bridging the Broadband Gap*, Brussels 31 May 2011

"Spectrum Pricing" One Day Training Programme, Middle Eastern Spectrum Conference, Dubai, 31 March 2011

"Successful approaches to spectrum pricing" *Middle East Spectrum Conference* 2011, Dubai, UAE 30 March 2011

"Reforming Radio Spectrum Management: Successful Approaches to Spectrum Pricing" *Spectrum Regulation and Management Workshop*, Johannesburg, South Africa, 25 March 2011

"Penalties: Mixed Strategies or Mixed up about strategies?" *University of Warwick World Cup Workshop*, 7 July 2010

"Unbundling of energy undertakings in relation to Corporate Governance Principles: A Case Example – BT Openreach" Florence School of Regulation Workshop in cooperation with ERGEG Task Force on Unbundling, Reporting and Benchmarking (TF URB), Federal Network Agency (BNetzA), Berlin, 25 September 2009

"Vertical separation and value" presentation to Telecom Separation – Regulatory & Financial Implications conference, Le Châtelain All Suite Hotel, Brussels, 17 October, 2007

### **Current academic teaching programmes**

"Economics of Competition Policy", Warwick University, Department of Economics 3<sup>rd</sup> year undergraduates

"Topics in the Economics of Sport", Warwick University, Department of Economics 3<sup>rd</sup> year undergraduates

"Student Workshop Industrial Organization", Warwick University, Department of Economics MSc graduates