

## Mobility and Access: Femtocells, LTE and The New Radio Revolution

18<sup>th</sup> May 2011

This is an IET Event, supported by Cambridge Wireless

Venue – The IET, 2 Savoy Place, London, WC2R 0BL

### AGENDA

09:00 Registration & Networking over Tea and Coffee

09:30 **Keynote address from Graham Louth, Director of Spectrum Policy, Ofcom** “Proposals for the award of 800 MHz and 2.6 GHz spectrum

09:45 **Q&A**

#### Session I Inside Out: How would Femtocells Work in a Liberalised Regime?

**Chaired by Will Stewart from The Institution of Engineering and Technology**

Femtocells potentially challenge the way in which we think about deploying mobile networks. With the majority of mobile calls now made or received at home or in the office and smart phones placing an increasing data load on networks, could Femtocells save capital and operating costs at the same time as enabling rapid deployment? Would this best be done by liberalising the spectrum as was done with WiFi or should spectrum used by Femtocells be licensed and paid for? The three speakers will address the three key components of the answers to these questions.

09:55 **Introduction, by Will Stewart**

10:00 **David Cleevely, Board Member, Cambridge Wireless** “*How the Business Model for Liberalised Femtocells Could Work*”

10:15 **Prof. Simon Saunders, Director, Real Wireless** “*How Do The Technical Issues Affect the Development of the Femto Cell Market?*”

10:30 **William Webb, CTO, Neul** “*What Kind Of Regulatory Model Do We Need?*”

10:45 **Panel Session with Session I Speakers, followed by summing up by Will Stewart**

11:10 Coffee, Tea and Networking

#### Session II Inside Out: How to get there?

**Chaired by Will Stewart from The Institution of Engineering and Technology**

Liberalising the spectrum for Femtocells has a precedent in the ISM bands at 2.4GHz and 5GHz. WiFi has generated enormous economic benefits. But could the same be true for Femtocells? Do WiFi and other technologies offer a practical alternative? What about backhaul and encryption? And what products could we expect with what performance and what prices? Do these form a coherent path for Femtocells or will the routes be many and various?

**Panel Session, beginning with short statements from each panellist**

11:40 **Brian Williamson, Plum Consulting** “*Free or Not? The Economics of Unlicensed Versus Licensed Spectrum*”

11:47 **Mike Short, Deputy President Elect IET and former member of OSAB** “*Encouraging Investment and Innovation – And Getting It Right*”

11:54 **Rupert Baines, Picochip** “*Can it be made to work? The challenges of developing and deploying Femtocells*”

12:01 **Houston Spencer, VP Corporate Messaging, CMO UK & Ireland, Alcatel-Lucent** “*Small cells and the future*”

12:08 **Panel Session with Session II Speakers, followed by summing up by Will Stewart**

13:00 **Lunch and Networking**

---

**Session III Outside In: Using 800MHz to provide access and coverage****Chaired by John Burns of Aegis Systems**

The 800 MHz spectrum has excellent propagation properties which make it good for in-building penetration and coverage of difficult terrain. There are many applications which could make use of this spectrum - for example rural area broadband based on LTE. With the government saying there's not enough cash, is 800MHz the way forward for solving the last mile for Broadband Britain?

14:00 **Introduction**

14:05 **Amit Nagpal, Independent Consultant**, *"Importance of 800MHz for indoor coverage"*

14:20 **Stephen Temple**, *"Challenging the last coverage frontiers for UK mobile radio"*

14:35 **Dan Warren, GSMA Association** *"The LTE Challenge: How mobile can provide broadband access"*

14:50 **Panel Session with Session III Speakers**

---

**Session IV Advice to Ofcom and Next Steps**

Chaired by Will Stewart, The Institution of Engineering and Technology

15:15 **Panel Discussion**

1.) **Ofcom's current proposals in light of what we have heard**

2.) **What should be the next steps – including responding to the consultation?**

---

16:00 **Event Closes**

---