

# Beyond Cellular Green Generation







# **BCG<sup>2</sup> – Beyond Cellular Green Generation**

### CHALLENGE AND BREAKTHROUGHS

- Traditional wireless networks are forced to remain active regardless of traffic
- Unlike traditional architecture, BCG<sup>2</sup> is based on small cells, and a complete separation of signalling and data functions
- Most of the many small cells can be put in sleep mode when inactive and thanks to the separation accessibility is not lost



#### New Network Architecture with Small Cells and Efficient Use of Sleep Mode





**GreenTouch** Celebration

18 June 2015 • New York City



6100x Average Energy Efficiency Improvement Compared to 2010 Reference Scenario





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### **DEMO DESCRIPTION**

- Localization system provides information on terminal positions
- Application status and location are provided to the system by mobile terminals through the signaling interface
- Access points are switched on and off based on context information gathered from system and terminals
- Network status and power consumption are shown on the map in real time



#### Live Demo Shows Feasibility of BCG<sup>2</sup> Architecture and Small Cell Management

