

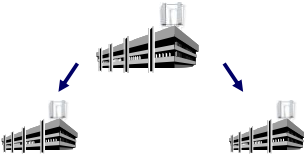
The Next Ten Years ?

Dr Mike Short
Vice President
Telefónica Europe

Science Museum
21 January 2010



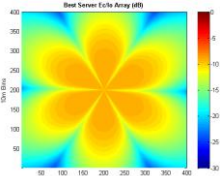
Radio Network Evolution - Overview



LTE800/900

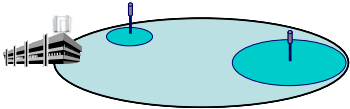
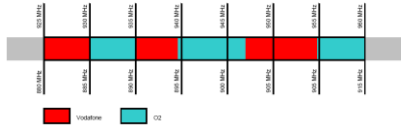
LTE1800/2600

3G Coverage Planning Level Increase for Dense Urban Areas



HSPA+ 900

Figure 12: Overview of current spectrum arrangements in the 900 MHz band



3G Microcells

UMTS 900



Small Cell Technology

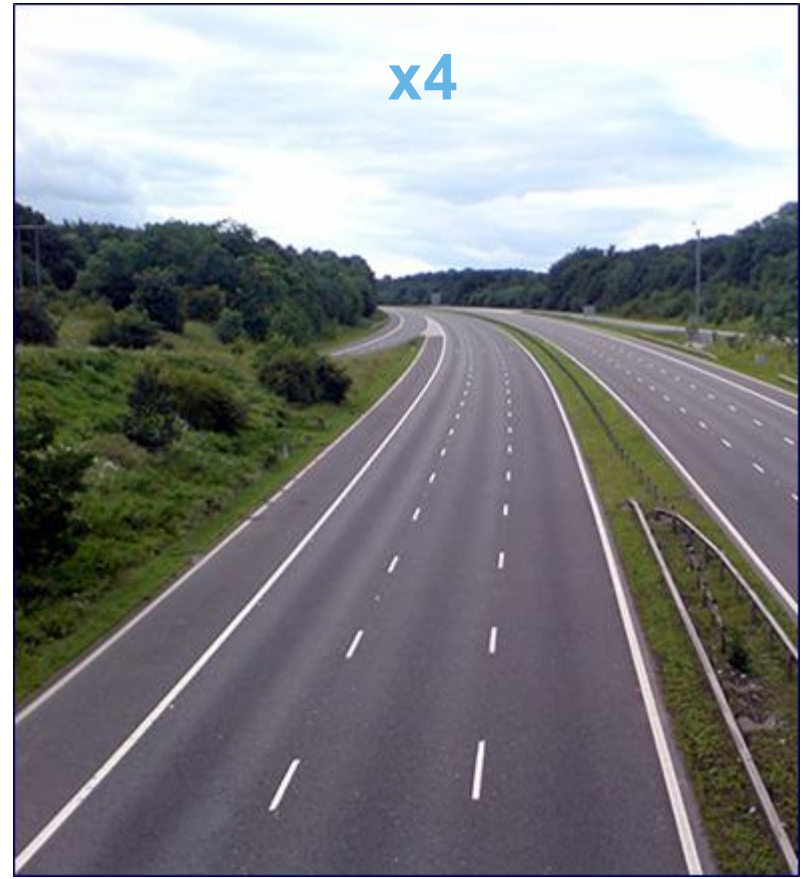


2009 2010 2011 2012 2013 2014 2015

HSPA+ vs. LTE



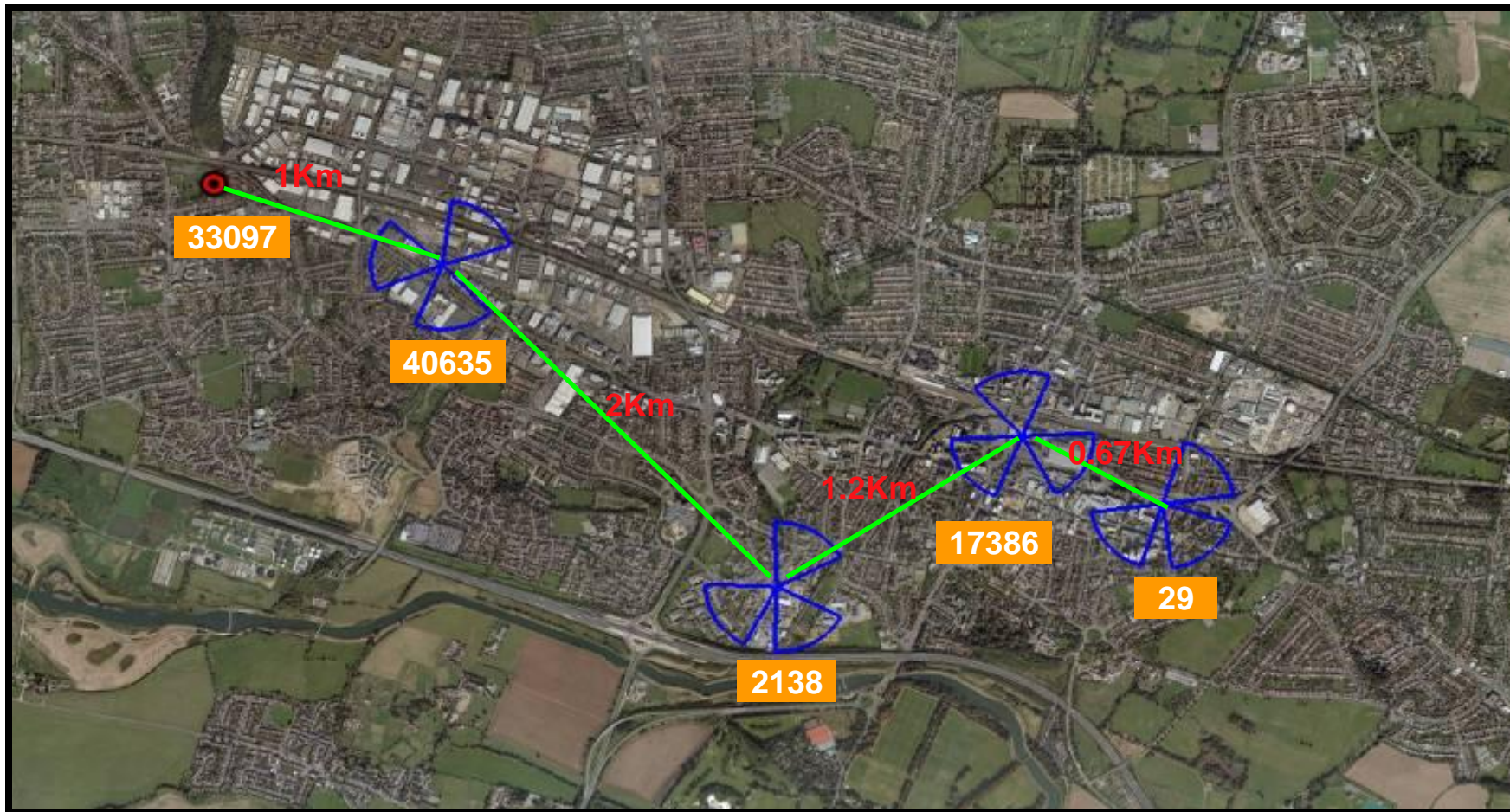
vs.



Telefónica Global LTE Trials



Telefónica O2 UK Trial – Network Overview



The next decade.....

- First Telefónica LTE trial network - 2009
- Field testing producing excellent results
- But customers want more than network speed
- Prospects of M2M everywhere
- Solutions going vertical and mass market
- Beyond an “Internet of things”
- Skills and human factors are becoming more important
- Digital Europe – not so far away, but in mobile we did it years ago