

Mobile Broadband and benefits with harmonized UHF spectrum



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Broadband access is a government priority

*"..the Australian Government views the provision of broadband access as **an essential nation-building activity**. It is the key to how we will participate in the future economic, political and social life of the country."*

Senator Stephen Conroy,
Minister for Broadband,
Communications and the
Digital Economy. 19
August 2008

*"Our digital networks will be the **backbone of our economy** in the decades ahead, Britain must invest in the industries of the future as it fights its way out of recession"*

Gordon Brown, Jan
29, 2009

*To build an economy that can lead this future, we will begin to rebuild America. It means **expanding broadband lines across America**, so that a small business in a rural town can connect and compete with their counterparts anywhere in the world. And it means investing in the science, research, and technology that will lead to new medical breakthroughs, new discoveries, and entire new industries.*

Barack Obama Jan 8, 2009

The ICT industry generates 25% of the total growth in Europe

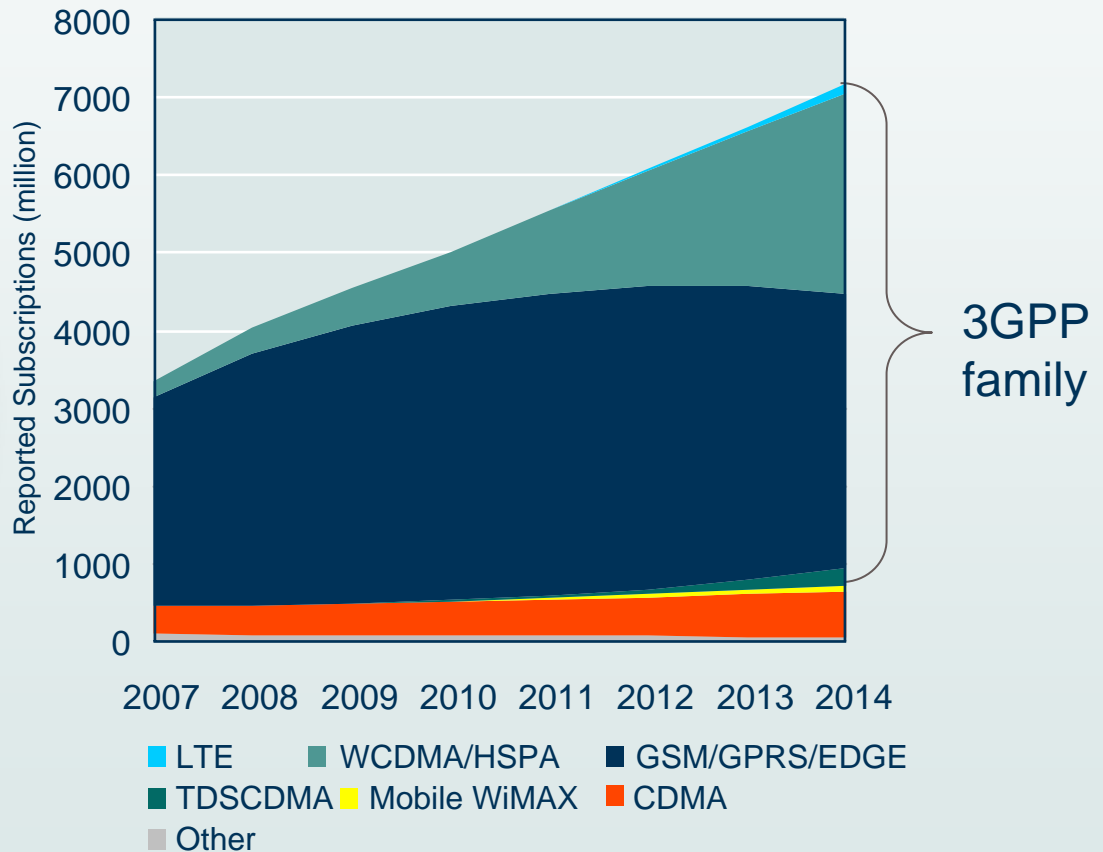
Mobile Broadband Consumer experience 2008

- Automatic install and configuration
- Data speeds 0,5-7 Mbps with mean ~2-3 Mbps
- Mobile use in trains, buses and cars
- Coverage essentially everywhere
 - Applications handle short interruptions
- Robust
 - Connection stays up



HSPA provides a robust DSL-like broadband experience

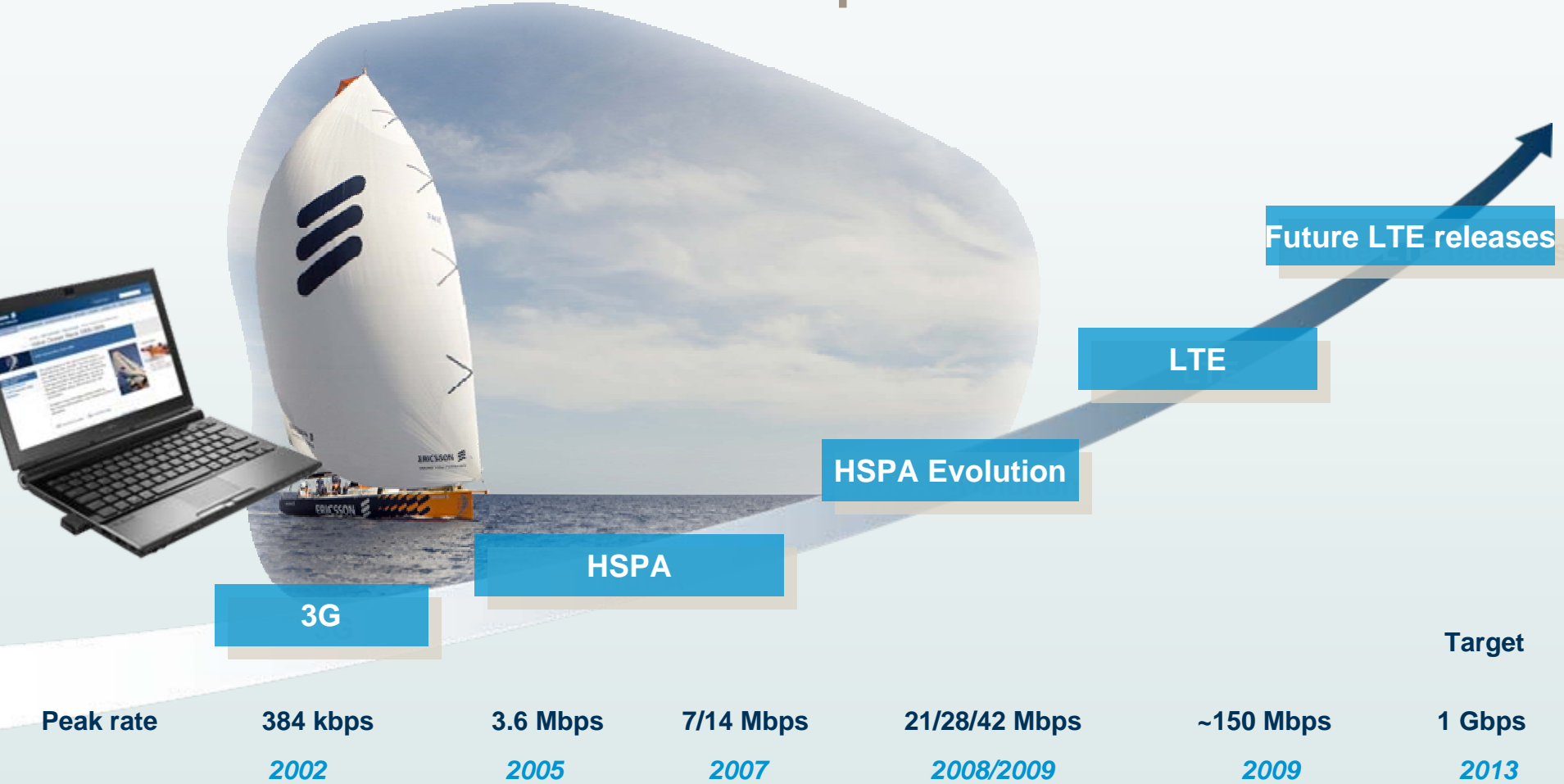
3GPP family success gives economies of scale



This slide contains forward looking statements

Harmonized spectrum is a key mass market enabler

Mobile broadband speed evolution



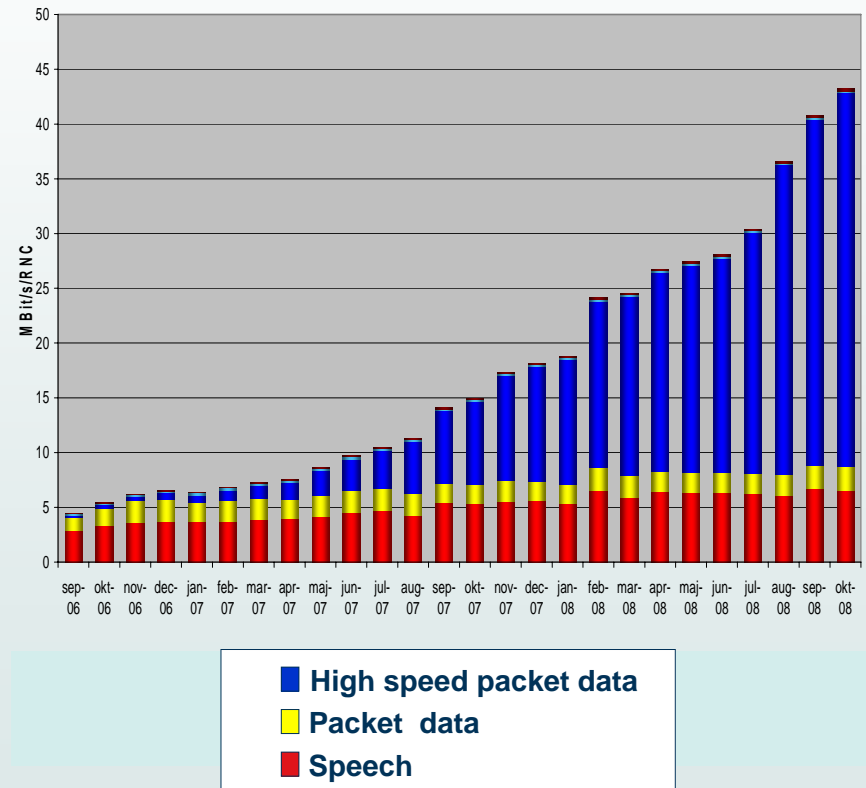
Higher peak data rates enable a better user experience

Data now 6 times more than voice

Fast subscriber growth

- 300 million WCDMA/HSPA subscribers world wide
- 6 million new HSPA subscribers per month, 83 million in total
- 1276 HSPA devices are launched from 164 suppliers
- HSPA is deployed in 237 networks in 105 countries/territories
- 85% of the traffic in WCDMA/HSPA networks is data

Strong traffic growth – WCDMA/HSPA world wide



Source: GSMA, GSA, and NetQB, November-08

LTE will accelerate this trend further – more spectrum needed!

Harmonization of spectrum

– For mobile broadband

International harmonization of spectrum gives:

- rich **ecosystem** providing **interoperability**
- easy **cross border coordination**
- international **roaming**
- availability of **affordable** products

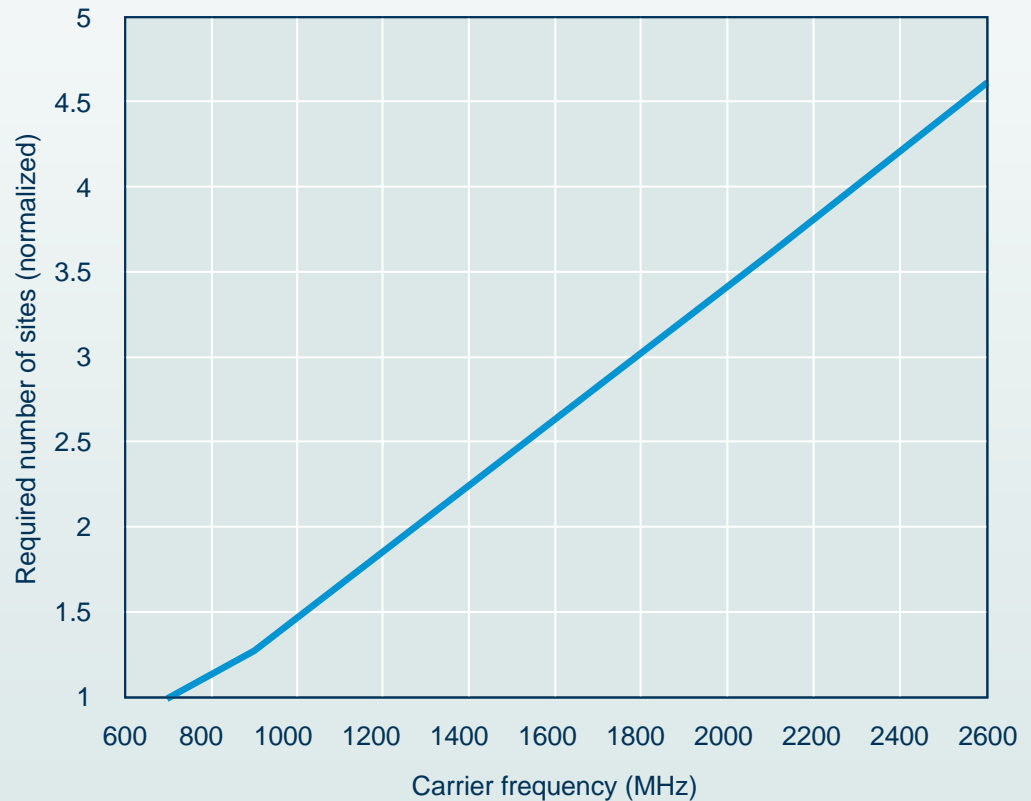
...bridging the digital divide



Harmonized spectrum has enabled global mobile penetration of 59%

The 800 MHz band brings broadband everywhere

- Reference frequency is 700 MHz
- Suburban environment



The 800 MHz band is a “coverage band” and will do with a 3rd of the sites compared with “higher” bands

Conclusions

Mobile Broadband growth based on HSPA evolving to LTE

Harmonized spectrum approach is crucial

“UHF band” is excellent for coverage wherever needed

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