Annex H: General Reference

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- 6. JD Power Satisfaction Survey
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- 18. Credit Suisse US Q4 Wireless Trends
- 19. JD Power US Wireless Call Quality Survey
- 20.NTT DoCoMo Calendar Q4 2010 results

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Footnote 10:

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Footnote 12:

Footnote 14a: Barclays Capital, July 2011

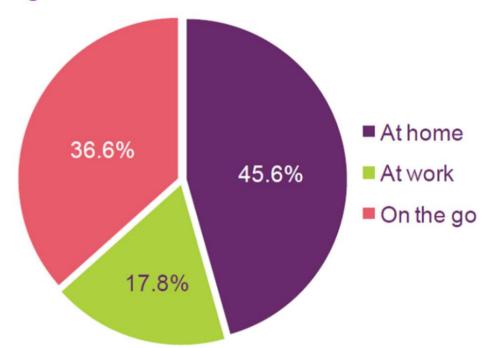
"Winners and Losers from Mobile Data"

■ Value of 800/900MHz = 4x2.6GHz. As mobile data will be the principal user of additional incremental spectrum, indoor penetration (we estimate 95% of mobile data is indoor) will become increasingly important. The weaker propagation characteristics of 2.6GHz will likely reduce the cell capacity compared to 800MHz. We therefore estimate a further 2x value delta versus 1800MHz.

We estimate the cost per Gbyte falls by 50% for an additional 2x5MHz of spectrum if an operator can add additional carriers to an existing site rather than site upgrades or a new site. See appendix 1 for more detail.

Footnote 14b: Ofcom Communications Market Update, August 2010



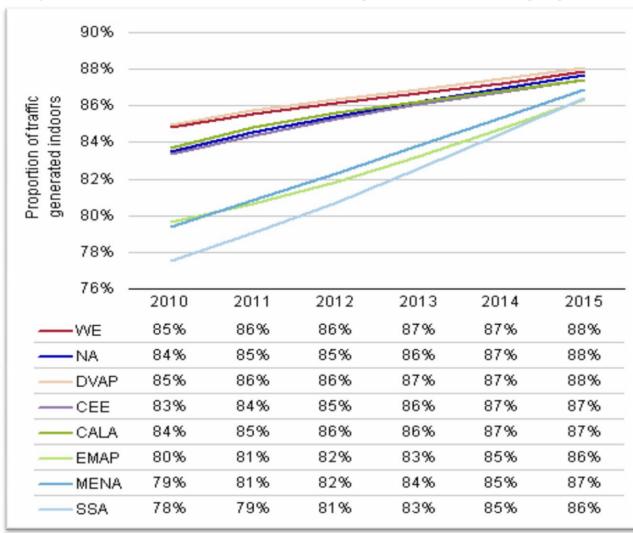


Source: Cisco Visual Networking Index Global Mobile Data Forecast, 2009-2014

Footnote 14c: Analysys Mason,

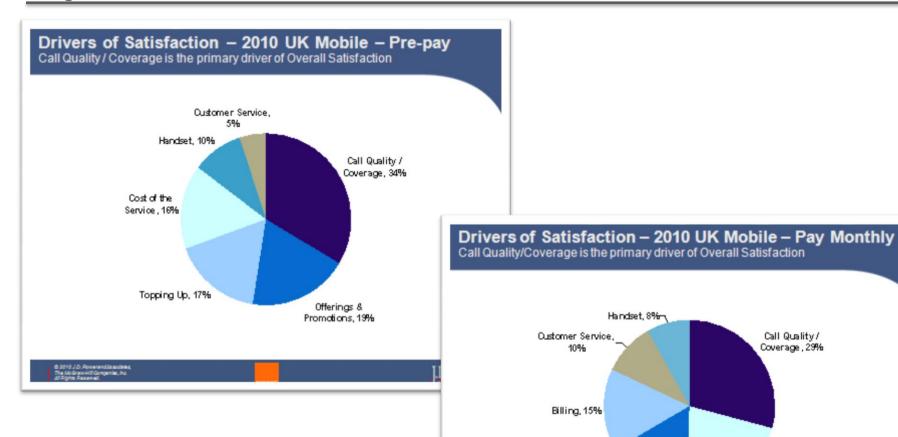
December 2010

Proportion of mobile network traffic that is generated indoors, by region, 2010–2015



WE Western Europe
NA North America
DVAP Developed Asia Pacific
CEE Central and Eastern Europe
CALA Central and Latin America
EMAP Emerging Asia—Pacific
MENA Middle East and North Africa
SSA Sub-Sarahan Africa

Footnote 15a: JD Power Satisfaction Survey, May 2010



Call Quality/

Coverage, 29%

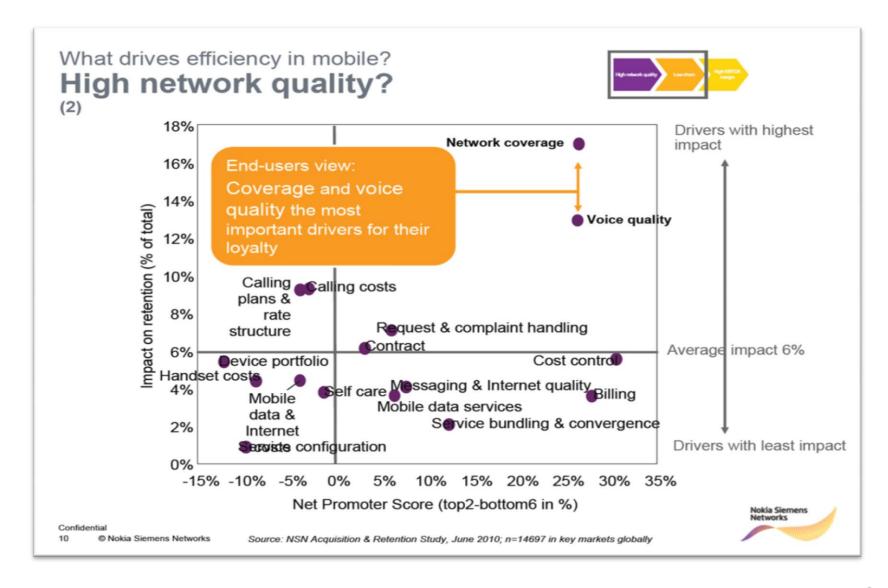
Cost of the

Service, 21%

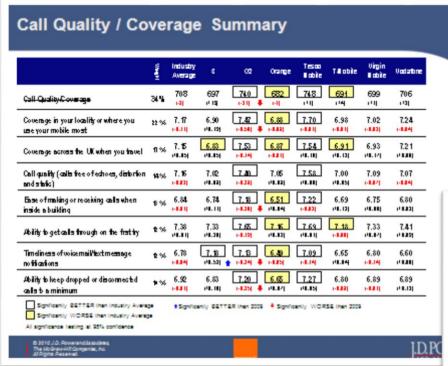
Offerings &

Promotions, 16%

Footnote 15b: Nokia Siemens Networks, September 2010



Footnote 16a: JD Power Mobile Satisfaction Survey, May 2010





Footnote 16b: Communications Consumer Panel, October 2009

Communications Consumer Panel – Mobile Coverage: The Consumer Perspective (October 2009)

Figure 4: Importance of mobile coverage in different locations and situations



Question: Thinking about the quality of reception or signal you get in various places and situations, how important are each of the following to you...?

Base: All those who use a mobile for personal use (n = 1716)

General Reference - CONFIDENTIAL

Footnote 17a:

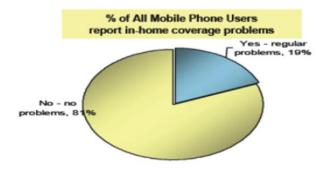
Footnote 17b: Vodafone Femtocell Presentation, July 2008

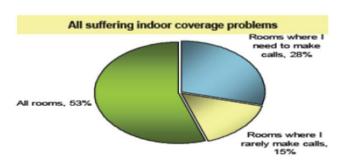
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Market Opportunities - Coverage

What is the real size of the addressable market of the UK? What's the real size of the prize?

- Just under 1 in 5 (19%) of mobile phone owners regularly encounter coverage problems in the home
 9.2m UK adults
- Amongst those who have in-home coverage problems. Just over half (53%) report that coverage is poor throughout the house – the remainder report coverage problems in selected rooms
- Typical claimed churn rate through coverage related issues are around 10-15%





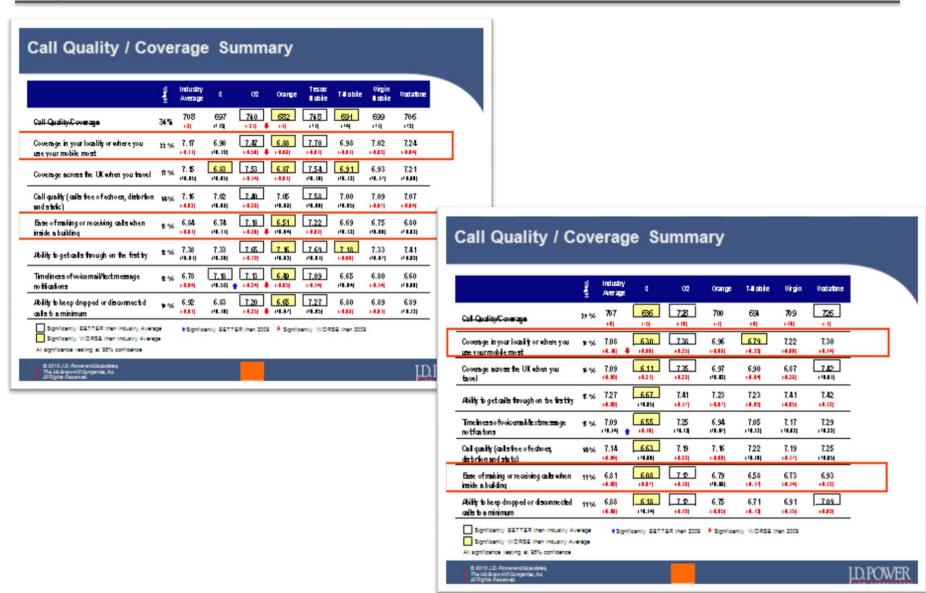
All UK mobile networks

Femtocells Solutions USA - July 2008

Meredith Sharples



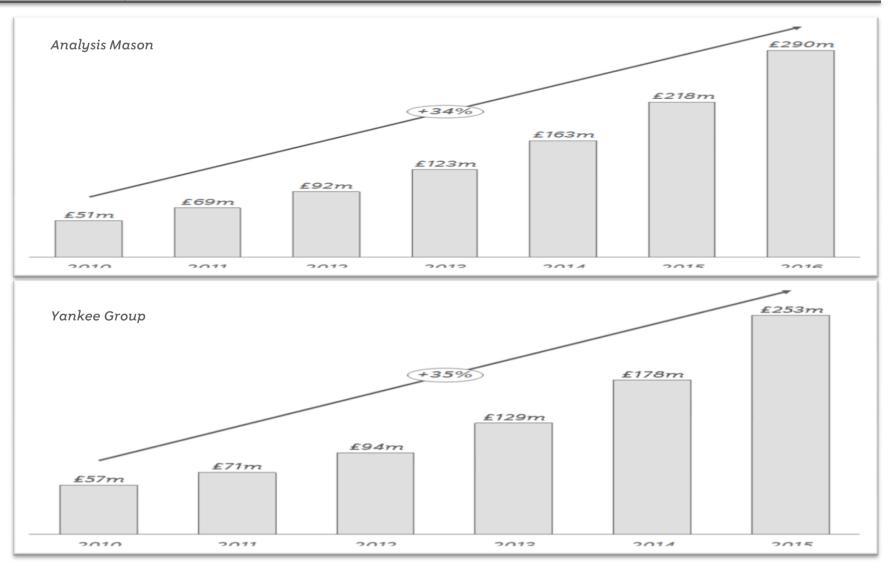
Footnote 18: JD Power Mobile Satisfaction Survey, May 2010



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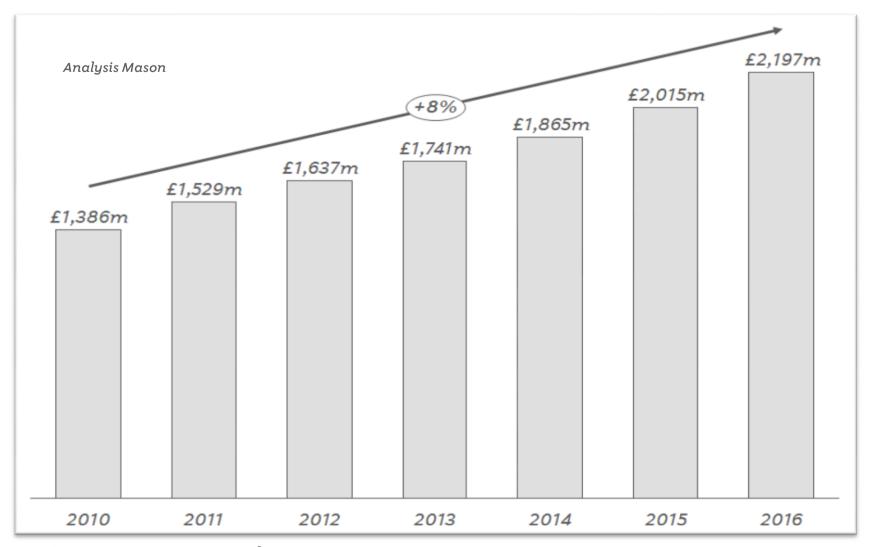
Footnote 19: Everything Everywhere Internal Surveys, prepared by GfK, February 2010

Footnote 21: Analysys Mason, March 2011 & Yankee Group UK Connected View Forecast, March 2011



M2M Data Revenue growth

Footnote 22: Analysys Mason, March 2011



Business Data Revenue growth

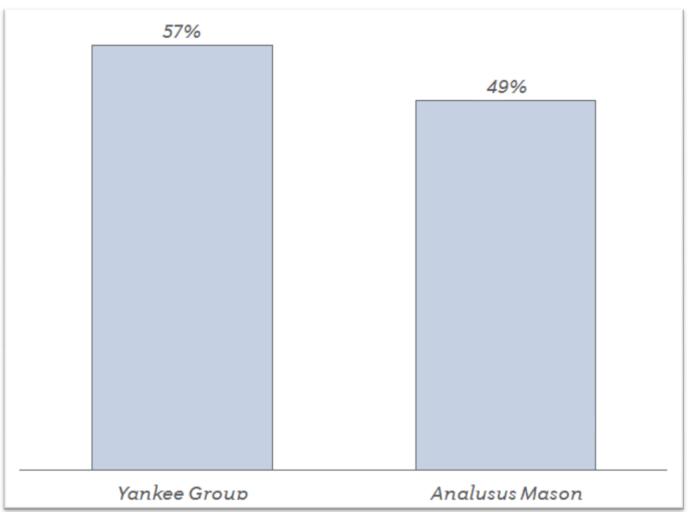
Footnote 24: Cisco Visual Networking Index,

February 2011

	2009	2010	2011	2012	2013	2014	2015	CAGR 2010-2015
Global								
Global speed: All handsets	101	215	359	584	934	1,465	2,220	60%
Global speed: Smartphones	614	1,038	1,443	1,953	2,608	3,424	4,404	34%
By Region								
Asia Pacific	37	74	115	188	328	584	984	68%
Latin America	13	50	103	206	402	744	1,260	91%
North America	376	707	1,071	1,556	2,198	2,996	3,994	41%
Western Europe	151	444	932	1,696	2,708	3,919	5,336	64%
Japan	769	1,394	2,009	2,631	3,353	4,282	5,509	32%
Central and Eastern Europe	43	117	246	499	955	1,704	2,786	89%
Middle East and Africa	13	59	141	309	620	1,142	1,948	101%
By Country								
Australia	413	953	1,397	1,967	2,674	3,556	4,649	37%
Brazil	26	74	145	275	508	895	1,458	82%
Canada	216	683	1,217	1,931	2,860	4,109	5,680	53%
China	13	50	99	208	428	816	1,384	94%
France	111	530	1,307	2,516	3,992	5,662	7,510	70%
Germany	61	306	730	1,462	2,486	3,668	4,929	74%
India	1	19	61	125	262	546	1,037	124%
Italy	158	465	1,073	2,092	3,475	5,142	7,037	72%
Japan	769	1,394	2,009	2,631	3,353	4,282	5,509	32%
Korea	868	1,447	1,950	2,521	3,193	3,981	4,984	28%
Mexico	6	36	80	175	384	822	1,557	112%
New Zealand	352	715	1,355	2,048	2,986	4,213	5,738	52%
Rest of Asia Pacific	24	85	168	321	608	1,103	1,860	85%
Rest of Central and Eastern Europe	56	140	292	577	1,070	1,854	2,966	84%
Rest of Latin America	6	38	79	165	326	598	997	93%
Rest of Middle East and Africa	10	43	105	238	503	977	1,738	110%
Rest of Western Europe	153	353	701	1,245	2,001	2,950	4,077	63%
Russia	20	75	163	356	741	1,422	2,448	101%
South Africa	51	268	655	1,386	2,474	3,842	5,454	83%
U.K.	306	820	1,466	2,338	3,398	4,668	6,155	50%
U.S.	389	709	1,059	1,526	2,143	2,902	3,848	40%

Footnote 30: Yankee Group, March 2011 & Analysis Mason, June 2010

UK Voice Revenue as % of 2015 total



Footnote 33: Credit Suisse US Q4 Wireless Trends
March 2011

Wireless ARPU Data and Voice Components for National Carriers

Data ARPU now composes 35% of service revenue at the national carriers, up from 30% in 4Q09.

Telecom Services Equity Research



Includes: Includes AT&T (Retail, Connected and Reseller), Verizon (Retail and Reseller), T-Mobile (Retail), Sprint (Retail and Reseller)

Source: Company Data, CS estimates.



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Footnote 34: JD Power US Wireless Call Quality Survey March 2011

The study finds the percentage of wireless calls made indoors has increased considerably during the past eight years—to an average of 56 percent in 2011 from 40 percent in 2003. During this time frame, the proportion of wireless calls made from homes increased most notably, averaging 35 percent in 2011, compared with 25 percent in 2003. Among wireless calls made outside of buildings, the greatest decrease has occurred among calls made in vehicles, which has declined to 20 percent in 2011 from 37 percent in 2003. Typically, wireless calls placed indoors result in slightly more problems, on average, than calls placed outdoors.

Footnote 35: NTT DoCoMo Calendar Q4 2010 results

