# Update on recent UMTS Forum activities

## 3GPP/PCG#16 meeting, Beijing

**Jean-Pierre Bienaimé**

**Chairman, UMTS Forum**

**www.umts-forum.org**

# Summary

- UMTS Forum Key Focus Areas 2006
- UMTS Forum Last Reports & Studies
- 18th ITU-R WP8F, Bangkok, January 2006
- 3GSM World Congress, Barcelona, February 06
- ITU WTDC-06, Doha, March 06
- Dialogue with EC & Regulatory Bodies
- Responses to Public consultations
- ETSI/@lis and 3GPP co-operation

# UMTS Forum Key Focus Areas

## Work-plan 2006 in summary

| Vision, Future Research & Market | Spectrum & Regulation | Technical Issues & Implementation |
|---|---|---|
| Evolution of 3G/UMTS | Global spectrum and spectrum arrangements for UMTS/IMT-2000 and its evolutions | Complementary technologies (mobile, Broadband Wireless Access...) |
| Services & Applications | Preparations for WRC-07 | Mobile TV |
| Market forecasts, customer perspective and trends | Advice to industry and administrations on 3G licensing | 3G standardisation and support to 3GPP |
| Relationships with international bodies (ITU, EC, CEPT/ECC...) | | |
| Emerging markets action plan (including 'BRIC') | | |
| Relationships with international media and financial community | | |
| Visibility and participation at conferences, exhibitions, seminars and workshops | | |

# Work-Plan 2006: specific activities (1)

## 1. Spectrum & Regulation

- *WRC-07 preparations (agenda items 1.4 and 1.9)*
  - *Lobbying for the capacity bands for advanced mobile (cf. spectrum requirements study)*
  - *Lobbying for the coverage bands from 470 – 600 MHz*
- *Promotion of harmonization of the existing IMT-2000 bands*
- *Initiation of new studies on spectrum for systems beyond IMT-2000 (IMT-Advanced)*
- *Follow and comment new spectrum management ideas e.g. WAPECS and work in ECC PT8.*
- *More formal cooperation with GSM Association on spectrum related activities*

## 2. Market & Services

- *Assess information concerning forecasted evolution of UMTS market, services and usage for period 2010-2020 which will be provided to ITU-R WP8F (following up on UMTS Forum contributions provided in 2005)*
- *Location based services: enhancements and new opportunities of High-Accuracy Location Based Services/Galileo*
- *Mobile entertainment & content: assessment and promotion*

# Work-Plan 2006: specific activities (2)

## 3. Technical issues & Implementation

- *Further studies on complementary technologies (FWA…), including planned White Paper on 'Complementary technologies in a 3G/UMTS environment'*
- *Promotion of HSPA variants in media and industry through:*
  - *Publications (inc. UMTS Forum Report#39 on HSPA)*
  - *Conference appearances, media and analyst interviews*
- *Contribution on 3GPP 3G Long Term Evolution*
- *Low Cost UMTS Terminal (LCUT) work plan*
- *Launch of Mobile TV ad hoc work group*

## 4. Emerging markets

- *Continued action towards the large emerging markets. e.g. BRIC (Brazil/Russia/India/China) action plan including workshops, dialogue with regulators, targeted messages and PR*

# UMTS Forum Latest Reports & Studies

- **Report on "Development of Spectrum Requirement Forecasts for IMT-2000 and Systems Beyond IMT-2000 (IMT Advanced)", sent as a contribution to ITU WP8F 17th meeting, January 06. A summary of this report was presented during the meeting.**

- **Report#39 "The global market for High Speed Packet Access (HSPA): quantitative and qualitative analysis", and associated Flyer "Key findings from a report prepared on behalf of the UMTS Forum by Analysys Research", distributed at 3GSM Barcelona.**

- **Spectrum White Paper on "Frequency Bands Available for UMTS around the World", distributed at 3GSM Barcelona**

- **"UMTS Forum Annual Report 2005 and Directions for 2006", distributed at 3GSM Barcelona**

# 18th ITU-R WP8F, Bangkok, Jan 06 (1)

**The UMTS Forum and the European Commission (EC) have commissioned the respective studies to investigate the future demand for mobile services and the resulting traffic generated, both published in April 2005:**

- ***Magic mobile future 2010-2020***
- ***The demand for future mobile communications markets and services in Europe (FMS)***

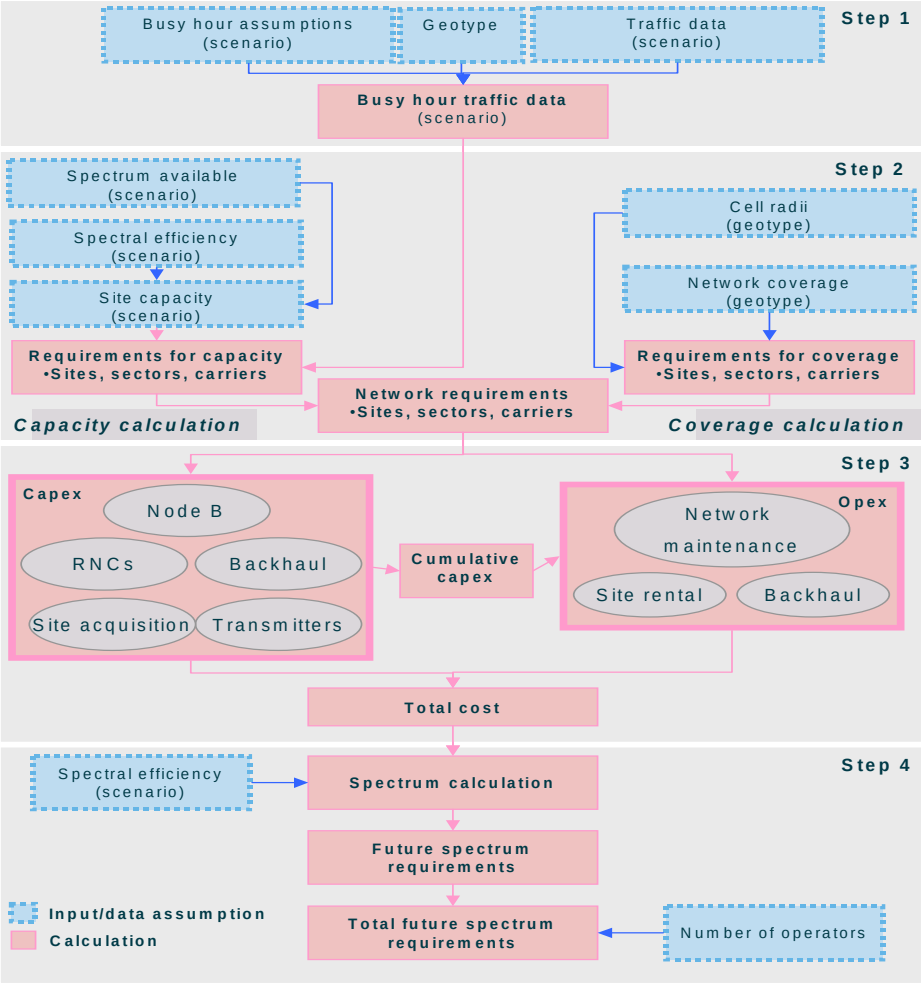
## ➔ UMTS Forum Report on "Development of Spectrum Requirement Forecasts for IMT-2000 and Systems Beyond IMT-2000 (IMT Advanced)"

➔ ***Spectrum forecast methodology***

**In order to develop an understanding of how demand of cellular spectrum will evolve over the next 15 years, the UMTSF/Analysis study takes the perspective of a mobile network operator (MNO). In the event of traffic increasing on its network in the future, an MNO faces a trade-off between trying to obtain more spectrum and deploying more carriers, or deploying additional sites in order to increase capacity. We assume that if the MNO can achieve a certain threshold of cost savings through obtaining additional spectrum, then the operator will seek to obtain it. Therefore, in order to calculate the demand for spectrum, a cost model for an MNO's network has been developed to compare the differences in cost incurred when it has different quantities of spectrum available.**

# 18th ITU-R WP8F, Bangkok, Jan 06 (2)

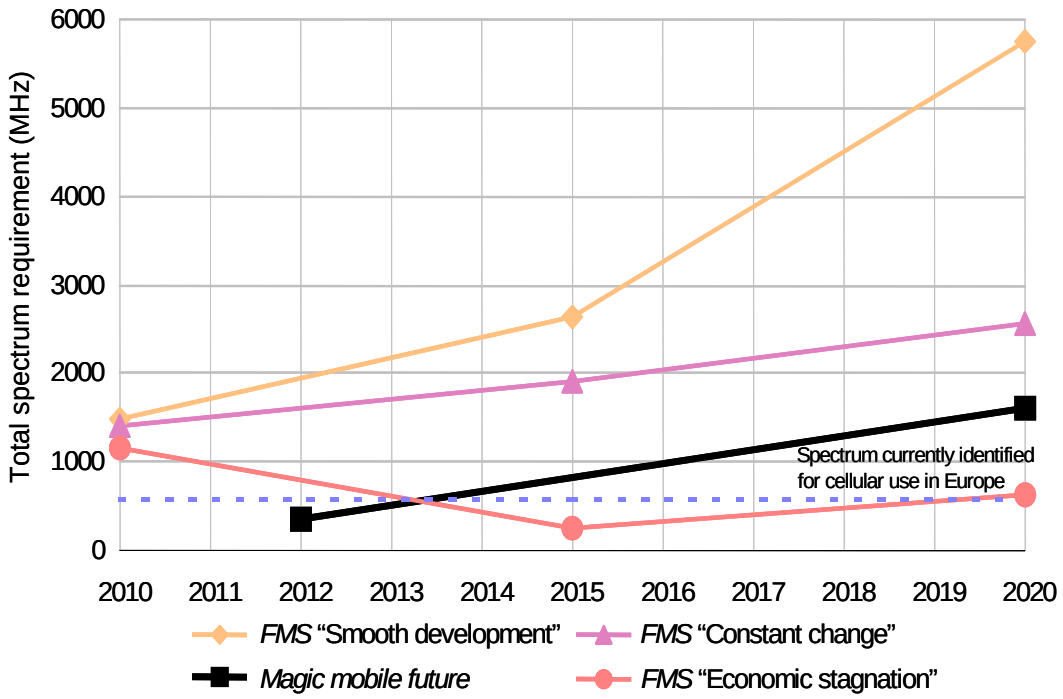
## ➔ *Calculation of an MNO's spectrum requirements*



# 18th ITU-R WP8F, Bangkok, Jan 06 (3)

➔ **Spectrum-requirement forecasts**

**Using the traffic profiles with our base-case assumptions, the total spectrum forecasts calculated, including existing spectrum used for mobile services, are given below.**



# 18th ITU-R WP8F, Bangkok, Jan 06 (4)

## *Main conclusions*

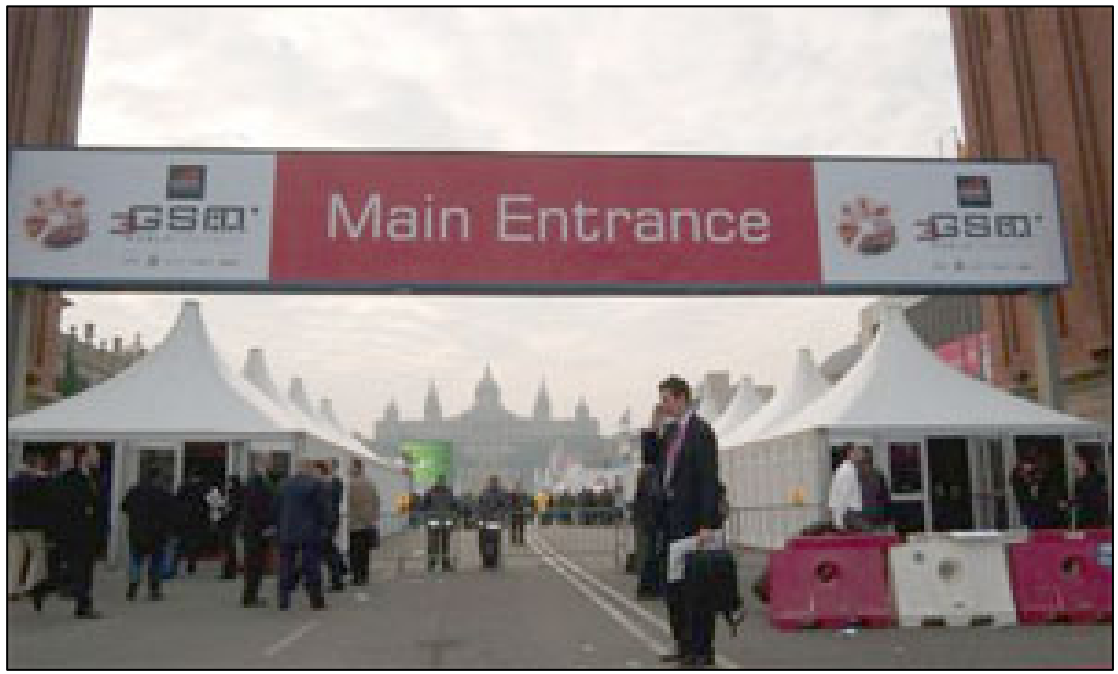
- **Spectrum requirements for cellular services expected to be much higher than the amount of spectrum currently allocated for cellular use in Europe.** ***The spectrum currently identified for cellular use is 585MHz*** ***and includes the 900MHz and 1800MHz GSM bands, the 2GHz UMTS band (including the band that is currently used for DECT), and the 2.5GHz expansion band.***

- **Using the traffic profile forecasts in the *Magic mobile future* study, the total demand for cellular spectrum, in the base case, would be *1.6GHz* by 2020.**

- **Using the traffic forecasts from the "constant change" scenario in the *FMS* study (the scenario that was used in CEPT's contribution to the ITU-R as European Market Data), the total demand would be *2.6GHz* by 2020.**

- **Finally, it should be noted that this study is based on the *Magic mobile future* traffic forecasts for a *representative* Western-European country and on *FMS* traffic forecasts for "EU25 plus accessions".** ***Therefore, those Western-European countries with traffic demand and urban population density that are higher than average may require more spectrum than have been calculated in this study.***

# UMTS Forum at
# 3GSM World Congress 06, Barcelona



PRESS INFORMATION

UMTS Forum

## 50 MILLION 3G/UMTS SUBSCRIBER MILESTONE PASSED IN JANUARY 2006, CONFIRMS UMTS FORUM

Visit us on stand H76 at 3GSM World Congress in Barcelona, 13-16 February 2006.

**09 February 2006, London:** Worldwide subscriptions to 3G/WCDMA networks had topped the 50 million mark by the end of January 2006, says mobile industry body The UMTS Forum www.umts-forum.org.

The latest figure confirms 3G/UMTS as the world's most popular 3G wireless technology. Globally, UMTS/WCDMA plus CDMA2000 1x EV-DO customers now represent a combined base of more than 72 million 3G users.

Europe's contribution to the global WCDMA subscriber base is also increasing, forging ahead of Japan that has until now represented the world's single largest WCDMA market. Thanks to a surge in network launches during the second half of 2005 plus strong pre-Christmas marketing activity by operators, the European total stands at more than 25 million 3G/UMTS customers - 51% of the global WCDMA base.

There are now more than 100 WCDMA networks operating commercially in 42 countries worldwide, supported by a choice of over 250 devices from Asian, European and North American manufacturers.

The latest figures have been confirmed by Wireless Intelligence, www.wirelessintelligence.com – the mobile market information provider that collects data on a regular basis from operators worldwide.

"The speed with which this milestone has been passed underlines the health of 3G/UMTS worldwide – and the unstoppable evolution towards mobile broadband and the personal Internet ", comments UMTS Forum Chairman Jean-Pierre Bienaimé:

"Our own forecasts had suggested that subscriptions would exceed 50 million by the end of January, and these results are in line with our expectations.

"Continued roll-out of networks is supported by a fast-expanding choice of feature-rich terminals and innovative operator offerings", notes Bienaimé. "It's clear that 2006 is going to witness further growth for 3G/UMTS subscriptions and services, accelerated by the commercial launch of broadband HSDPA networks in Asian, North American and European markets."

UMTS Forum

**Press Release issued 09 February 2006**

**"50 million 3G/UMTS subscriber milestone passed"**

PRESS INFORMATION

UMTS Forum

## UMTS FORUM PREDICTS 1 BILLION HSPA USERS BY 2012

Visit us on stand H76 at 3GSM World Congress in Barcelona, 13-16 February 2006.

**14 February 2006:** In a new report published this week, mobile industry body The UMTS Forum www.umts-forum.org forecasts almost one billion active users of High Speed Packet Access (HSPA) networks by 2012.

The new study also anticipates that HSPA will significantly stimulate data ARPUs, generating €56bn in annual revenues for mobile operators by 2012.

In addition, the report forecasts that total 3G mobile data revenues will increase from €17bn in 2006 to over €120bn annually in 2012.

Titled "**Report 39: The global market for High Speed Packet Access (HSPA): quantitative and qualitative analysis**", the study has been prepared on behalf of The UMTS Forum by Analysys Research http://www.analysys.com/. It is available free of charge to all UMTS Forum members.

By affording additional capacity and bandwidth in mobile operators' existing spectrum allocations, HSPA can significantly reduce delivery costs per bit and improve operators' ability to deliver advanced applications including:

- Mobile TV and video services
- Music Downloads
- Advanced Business Applications.

The report quantifies how the improvements offered by HSPA technology will stimulate the market for 3G data services. It also segments the likely applications which will drive this revenue on a regional basis, highlighting geographical differences between take-up of services such as mobile infotainment.

"There's no doubt that HSPA, initiated by its downlink component HSDPA, is *the* key enabler for realising the full vision of mobile broadband and the personal Internet", says UMTS Forum Chairman Jean-Pierre Bienaimé.

"By 2012, 3G HSPA subscribers will be generating average traffic per user seven to nine times that of 3G non-HSPA subscribers as a result of higher quality user experience and lower tariffs", continues Bienaimé. "Thanks to

**Press Release issued 14 February 2006**

**"UMTS Forum predicts 1 billion HSPA users by 2012"**

# Media coverage: “50m subscribers”

**Les Echos (France)**

**13 February ‘06**

## Le nombre d'abonnés UMTS dans le monde franchit la barre des 50 millions

« Alors que le 3GSM World Congress s'ouvre à Barcelone, du 13 au 16 février, la barre des 50 millions d'abonnés UMTS dans le monde est franchie « à fin janvier 2006 ». C'est du moins ce que Jean-Pierre Bienaimé, président de l'UMTS Forum, a confirmé à La lettre des Télécommunications. Avec 25 millions d'abonnés, l'Europe représente pour la première fois la moitié de ce parc WCDMA. Cette norme reste dominante et représente les deux tiers de la troisième génération de mobile (3G) dans le monde. Mais si l'on y ajoute le tiers restant à la norme CDMA2000 EV-DO, l'on constate que les 50 millions d'abonnés toutes normes confondues ont été atteints dès le « début septembre 2005 ». D'après l'UMTS Forum, les seuls 50 millions d'abonnés à un réseau WCDMA (il y en a plus d'une centaine dans 42 pays) se répartissent à environ 50 % en Europe, 45 % au Japon et 5 % dans le reste du monde. Au total, les abonnés ont le choix entre 250 terminaux. »

# Media coverage at Barcelona

UMTS Forum

## 3G potential for emerging markets highlighted, despite challenges

Speakers at yesterday's Growth Markets Analysis Seminar said that 3G needed to be part of emerging market operators' technology migration strategy, despite the challenges that lay ahead, as non-voice services grow in popularity.

"UMTS will be a second engine of growth after the success of GSM," said Jean-Pierre Bienaimé, chairman of the UMTS Forum. He insisted that this applied to operators in emerging markets just as much as for European operators, claiming that WCDMA's increased capacity over GSM was particularly important for operators in developing markets.

Bienaimé insisted that 3G would also find a home in developing markets as a means of extending high speed internet to rural areas, and as a platform for social development initiatives such as telemedicine and e-education.

Yet he conceded that WCDMA terminals were likely to remain more expensive than GSM terminals for at least the next two years. He said that the UMTS Forum was looking to replicate the GSM Association's Emerging Market Handset initiative for WCDMA to drive down the cost of terminals, but gave few details.

His comments were echoed by Erasmo Rojas, Director of Latin America & Carribean at 3G Americas. "It is going to be hard to persuade subscribers to migrate to 3G with the current price structure for 3G handsets," Rojas commented.

Rojas said that Latin American operators had proved reluctant thus far to commit to 3G, claiming that they had yet to sufficiently re-coup their investment from their existing 2G networks to focus on 3G. But he insisted that there was a market for 3G content in Latin America, given the region's huge youth segment.

FEATURES

**MOBILE TV RISING**
MOBILE TV PROSPECTS WORLDWIDE
DAVID MCQUEEN ANALYSES.
PAGE 24

**FMC=IMS=SUCCESS?**
CONTINUOUS COMPUTING CEO CONFRONTS CONVERGENCE. PAGE 44

**THE OPEN BOX**
WHY ARE SO MANY IMSs TRAPPED BY CLOSED TECHNOLOGY? PAGE 52

Endorsed by GSM ASSOCIATION

Published by mobile communications international

3GSM WORLD CONGRESS DAILY

TUESDAY 14TH FEBRUARY

COVERING THE 3GSM WORLD CONGRESS 2006

Korea were unlikely to gain traction in developing markets such as the Eastern Europe and Africa. She highlighted the dramatic recharge of SMS credit transfer in Africa—which in markets with limited financial structures existed as a de facto money transfer system—as an example of a non-voice service which spoke to developing market customers' needs.

**3GSM Show Daily News, Day 2 - FRONT PAGE**

**Reporting from Chairman's participation as panellist in Growth Markets Analysis Seminar**

# Media coverage: '1 billion HSPA users'

UMTS Forum

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## FACTBOX-News from 3GSM wireless trade show in Barcelona

Tue Feb 14, 2006 10:00 AM ET

BARCELONA, Feb 14 (Reuters) - Following are announcements made on the second day of the 3GSM wireless trade show on Tuesday. The world's biggest mobile communications event includes presentations from chief executives from major mobile carriers, wireless equipment vendors, handset makers and software companies.

Arun Sarin from Vodafone (VOD.L: Quote, Profile, Research), Steve Ballmer from Microsoft (MSFT.O: Quote, Profile, Research) and Olli-Pekka Kallasvuo from Nokia (NOK1V.HE: Quote, Profile, Research) are among the speakers at the trade show.

FACT BOX

MSFT.O (Microsoft Corp)

Last: $26.88
Change: +0.25
Up/Down: +0.86%

Mar Jun Sep Dec

Quote
Full Chart

OPERATOR NEWS

* Mobile industry body the UMTS Forum (www.umts-forum.org) publishes a report forecasting there will be almost one billion active users of broadband mobile High Speed Packet Access (HSPA) networks by 2012. The new study also anticipates that HSPA will significantly stimulate average revenues per user for data, generating 56 billion euros ($67 billion) in annual revenues for mobile operators by 2012.

* The GSM Association (GSMA) and Intel Corp. (INTC.O: Quote, Profile, Research) say they will cooperate in a drive for the adoption of GSM standards in laptop computers, to enable users to connect and roam across global mobile networks. They said they will collaborate to develop guidelines for integrating 3G

Internet

**Reuters**

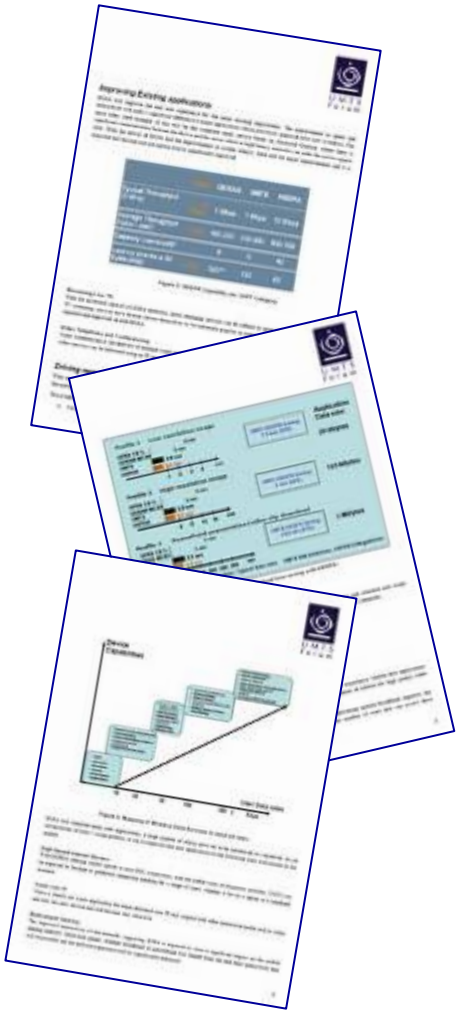
**14 February '06**

# The Global market for High Speed Packet Access (HSPA): quantitative & qualitative analysis – *Report n°39* (1)

UMTS Forum

- **HSPA will improve the operators ability to deliver advanced applications such as:**
  - **Mobile TV and video services,**
  - **Music Downloads,**
  - **Advanced Business Applications.**
- **HSPA will generate €56bn in supplementary revenue for mobile operators through stimulating data ARPUs by2012.**
- **Overall the report forecasts that 3G mobile data revenues will increase from €17bn in 2006 to over €120bn in 2012.**
- **Key drivers for operators to upgrade existing 3G networks to HSPA or to build greenfield HSPA networks:**

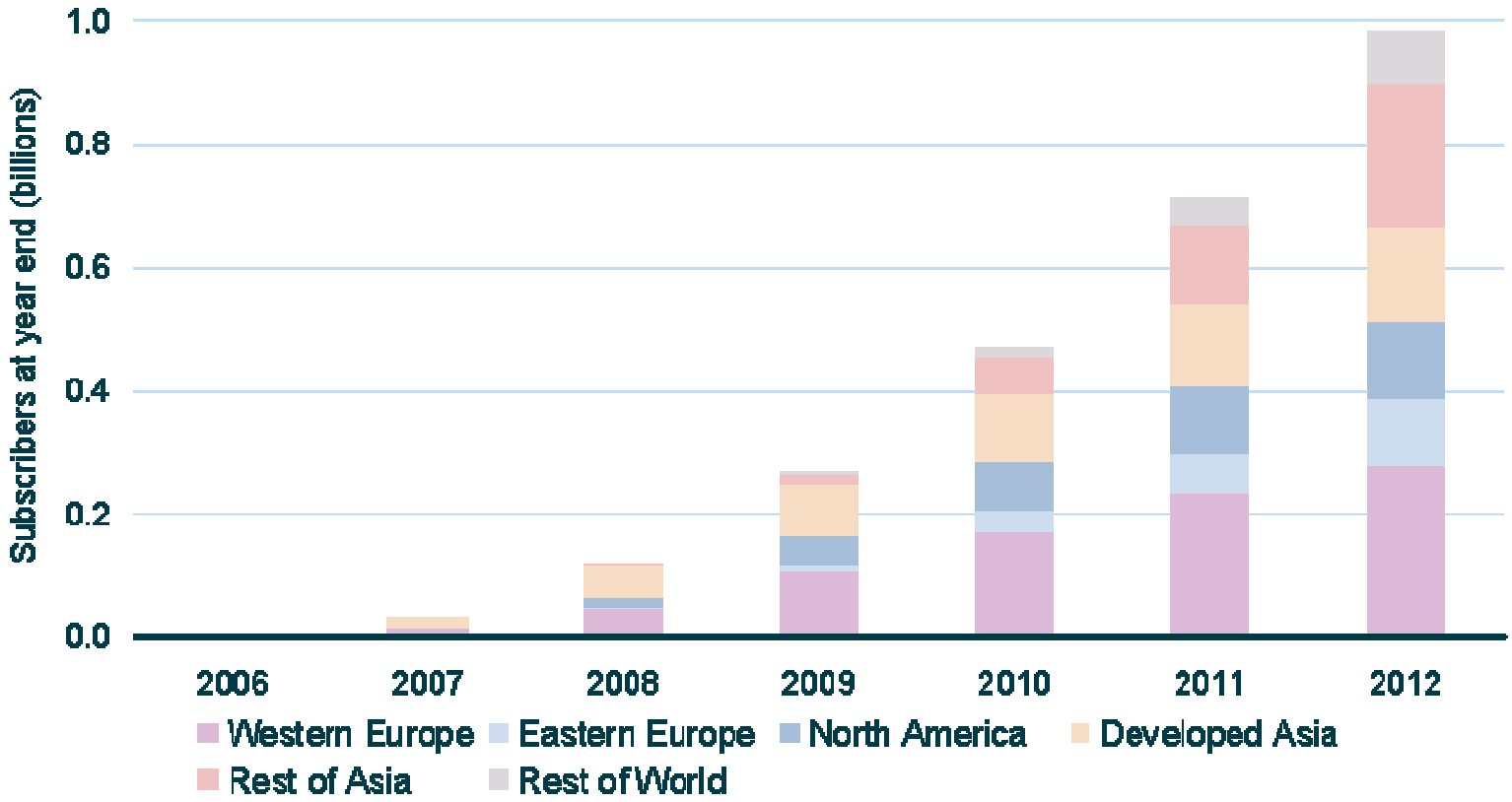
**- Support for a broad range of services,**
**- Immediate availability of spectrum in the majority of markets,**
**- Low risk evolution path from UMTS today to HSDPA/HSUPA,**
**- Significantly lower cost per bit when compared with other 3GPP technologies.**



# The Global market for High Speed Packet Access (HSPA): quantitative & qualitative analysis – *Report n°39* (2)

UMTS Forum

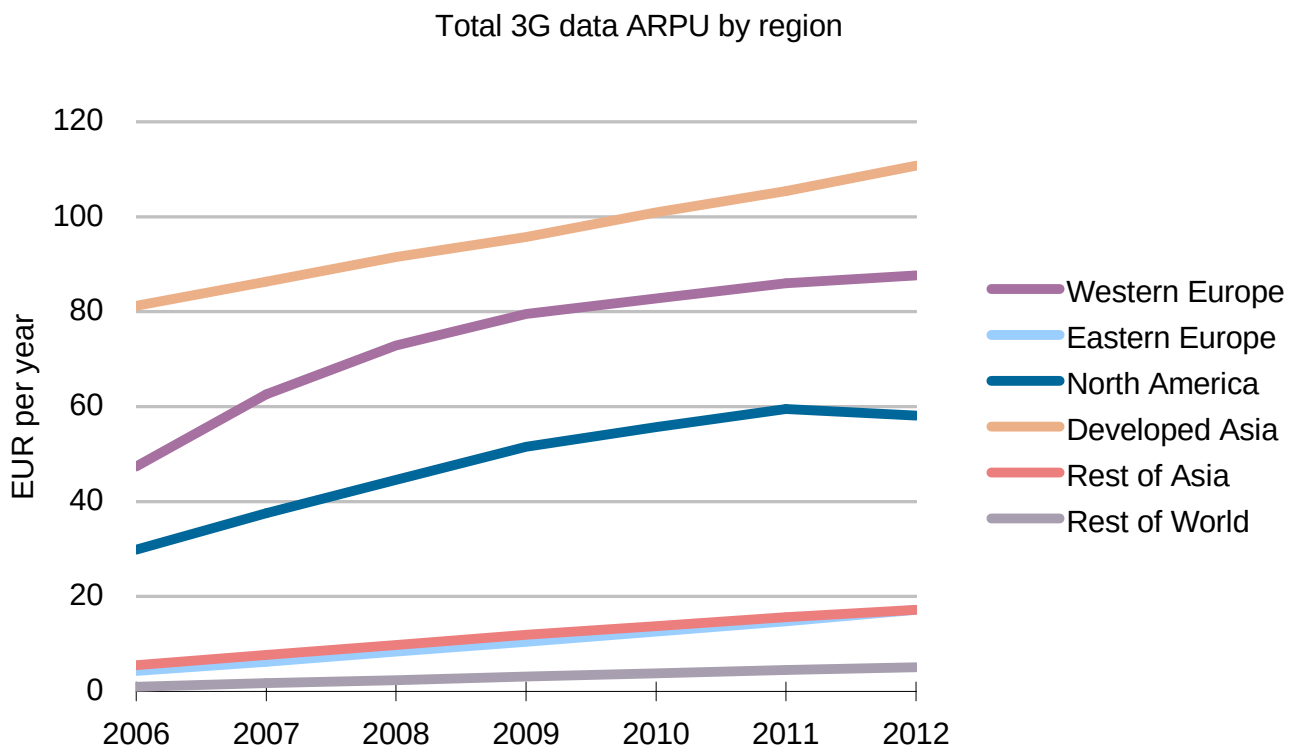
***Forecast total 3G HSPA subscribers by region, 2006-2012***



# The Global market for High Speed Packet Access (HSPA): quantitative & qualitative analysis – *Report n°39* (3)

UMTS Forum

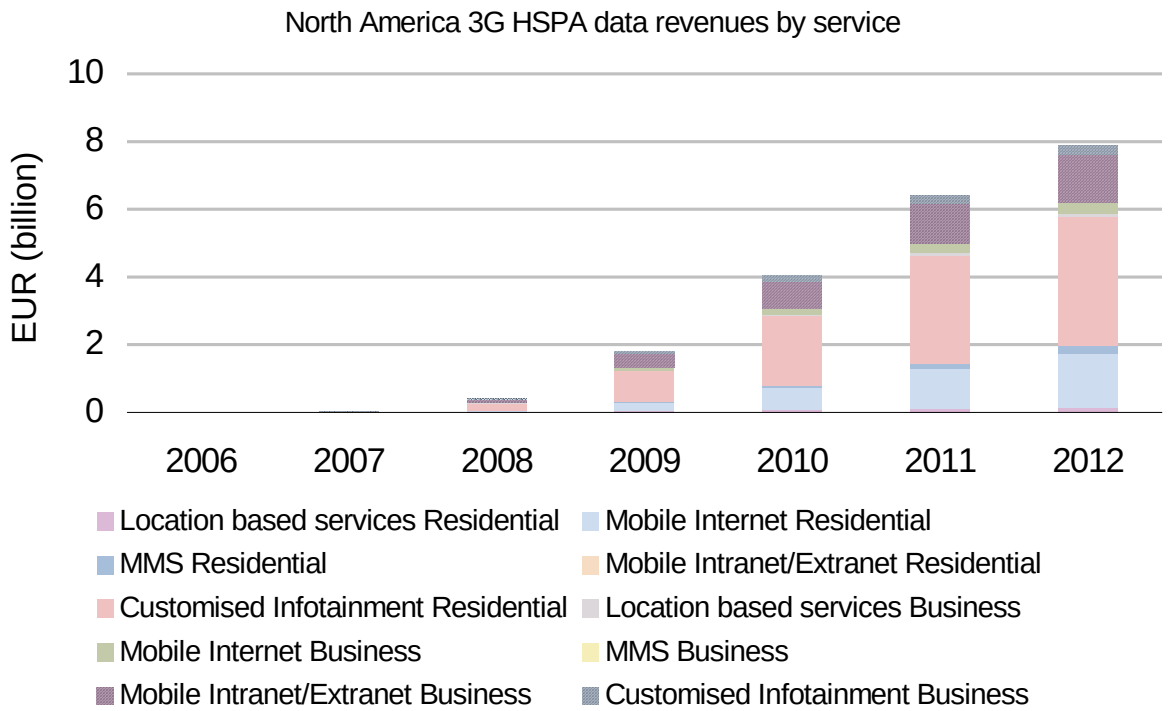
***Forecast total 3G data ARPU by region, 2006–2012***



# The Global market for High Speed Packet Access (HSPA): quantitative & qualitative analysis – *Report n°39* (4)

***Forecast spend on 3G HSPA data services in North America***

***split by service category, 2006–2012***



# Meetings with EC and Regulatory Bodies

- **Meeting with EC, Dec 05, Brussels, with the Cabinet of Commissioner Viviane Reding and DGInfso**:
  - **UMTSF concern about EC's draft decision on 2.6GHz band**
  - **Mobile TV workshop, Brussels, February 06,**
  - **EUSEA 2006 conference, Singapore, June 06.**

- **Meeting with Ofcom, December 05, London:**
  - **Ofcom's position on 2.6GHz band**
  - **Positions on spectrum & regulation flexibility**
  - **Future public consultations**

- **Meeting with Matthias Kurth, President of the German Federal Network Agency (Benetzagentur), December 05, Bonn:**
  - **UMTSF Spectrum White papers (mixed band plans and UMTS bands)**
  - **Position of the Agency on 2.6GHz band**
  - **Next public consultations**

# Frequency bands available for UMTS around the world (1)

Table 1. Frequency bands for UMTS UTRA-FDD

| Band name | | Uplink (MHz) | Downlink (MHZ) | Duplex (MHz) | Rec. ITU-R M.1036 | 3GPP Spec[1] Release | Note |
|---|---|---|---|---|---|---|---|
| I | UMTS2000 | 1920–1980 | 2110 –2170 | 190 | B1 | Rel-99 | IMT-2000 core band |
| II | UMTS1900 | 1850–1910 | 1930 –1990 | 80 | B3 | Rel-5 | PCS1900 band |
| III | UMTS1800 | 1710–1785 | 1805-1880 | 95 | B2 | Rel-5 | GSM1800 band |
| IV | UMTS1700 /2100 | 1710–1755 | 2110-2155 | 400 | B6[2] | Rel-6 | For Region 2 |
| V | UMTS850 | 824 – 849 | 869-894 | 45 | A1 | Rel-6 | For Region 2 |
| VI | UMTS800 | 830-840 | 875-885 | 45 | A1[2] | Rel-6 | For Japan |
| VII | UMTS2600 | 2500 – 2570 | 2620–2690 | 120 | C1 C2 | Rel-7 | IMT-2000 extension band[3] |
| VIII | UMTS900 | 880 – 915 | 925 – 960 | 45 | A2 | Rel-7 | GSM900 band |
| IX | UMTS1700 | 1749.9-1784.9 | 1844.9-1879.9 | 95 | B2[2] | Rel-7 | For Japan |

Table 2. Frequency bands for UMTS UTRA-TDD

| Frequency (MHz) | Rec. ITU-R M.1036 | 3GPP Spec Release[1] | Note |
|---|---|---|---|
| 1900-1920 | B1[2], B4[2] | Rel-99 | IMT-2000 core band |
| 2010-2025 | B1[2], B4[2] | Rel-99 | IMT-2000 core band |
| 1850-1910 | | Rel-99 | For Region 2, PCS1900 uplink band |
| 1930-1990 | | Rel-99 | For Region 2, PCS1900 downlink band |
| 1910-1930 | B3[2] | Rel-99 | For Region 2 |
| 2570-2620 | C1[2] | Rel-7 | IMT-2000 extension band, it can also be used for FDD DL external |

# Frequency bands available for UMTS around the world (2)

Table 3 Frequency bands in Europe

| Band | Uplink (MHz) | Downlink (MHz) |
|---|---|---|
| UMTS2000 | 1920 – 1980 | 2110 – 2170 |
| UMTS900 | 880 – 915 | 925 – 960 |
| UMTS1800 | 1710 – 1785 | 1805 – 1880 |
| UMTS2600 | 2500 – 2570 | 2620 – 2690 |
| UMTS2600 (FDD External) | tbd | 2570 – 2620 |
| TDD (Main band) | 1900 – 1920, 2010 – 2025 | |
| TDD (Extension band) | 2570 – 2620 | |

Table 4 Frequency bands in Japan

| Band | Uplink (MHz) | Downlink (MHz) |
|---|---|---|
| UMTS2000 | 1920–1980 | 2110 –2170 |
| UMTS800 | 830-840 | 875-885 |
| UMTS1700 | 1749.9-1784.9 | 1844.9-1879.9 |
| TDD | 2010 – 2025 | |

Table 5 Frequency bands in China

| Band | Uplink (MHz) | Downlink (MHz) |
|---|---|---|
| UMTS2000 | 1920 – 1980 | 2110 – 2170 |
| UMTS1800 | 1755 – 1785 | 1850 – 1880 |
| FDD (Complementary band) | 825 – 835<br>885 – 915<br>1710 - 1755 | 870 – 880<br>930 – 960<br>1805 - 1850 |
| TDD (Main TDD bands) | 1880 – 1920, 2010 – 2025 | |
| TDD (Complementary band) | 2300 - 2400 | |

# Recent Public Consultations (1)

## *UMTS Forum views on the WAPECS-concept*

➔ ***UMTS Forum does not support the implementation of the WAPECS concept in the UMTS/IMT-2000 bands, at least in the short term (3-5 years) before the major interference issues have been solved. Even if adjacent channel interference issues have been solved, cross-border coordination needs to be achieved for a new technology/service to be used in the band.***

➔ ***The Forum would like to draw the attention to the fact that an analysis of the current usage, in terms of both traffic and number of users, the UMTS/IMT-2000 identified bands (900, 1800, 2100) are among the heaviest used spectrum bands in Europe and also on a global scale and 2.6GHz is expected to follow that trend. Therefore, it is questionable what the added benefit would be for Europe from an introduction of to WAPECS in this band.***

# Recent Public Consultations (2)

UMTS Forum

## *UMTS Forum response to the German Federal Network Agency's "Consultation on possible UMTS/IMT-2000 award scenarios" in regard to the radio frequency band 2500 – 2690 MHz*

***For the good of consumers, the established UMTS/IMT-2000 operators should:***

- ➔ ***have access to sufficient supplementary UMTS/IMT-2000 spectrum by way of application, without the need for special award proceedings***
- ➔ ***get priority in the award of currently unused spectrum in the UMTS/IMT-2000 "Core" band***
- ➔ ***have the option to benefit from the development of UMTS/IMT-2000 equipment allowing FDD uplink use in the bands 2010 – 2025 MHz and/or 1900 – 1920 MHz paired with a potential downlink in the band 2570 – 2620 MHz***
- ➔ ***have access to the unpaired band 2570 – 2620 MHz to be used for the expansion of UMTS/IMT-2000 networks providing asymmetrical services in the downlink direction***

# ITU WTDC-06, Doha, March 06

## UMTS FORUM AT WORLD TELECOMMUNICATION DEVELOPMENT CONFERENCE: “EXTENDING IMT-2000/UMTS MOBILE COVERAGE IN DEVELOPING COUNTRIES” *Ensuring access to information for all – bridging the digital divide*

***On this occasion Mr Yoshio Utsumi, ITU Secretary-General, welcomed the new partners to the "Connect the World" ITU initiative including the UMTS Forum. The Connect the World initiative is a global multi-stakeholder platform launched in June 2005 by the Secretary-General of ITU and founding partners within the context of the World Summit on the Information Society (WSIS), in order to promote existing projects and encourage new partnerships to bridge the digital divide. In this framework, and with the support of Orange Spectrum team, the UMTS Forum has announced a new project titled "Extending IMT-2000/UMTS Mobile Coverage in Developing Countries", in which the identification of lower bands, namely 470-600MHz for IMT-2000 and its enhancements is requested at the forthcoming WRC-07. Among the other partners of Connect the World initiative, which gathers members from Industry, Governments, International Organizations and Civil Society, the GSM Association has presented its Ultra Low Cost Handset project, which was launched last year.***

3GPP/PCG#16 meeting
Beijing, April 20th 2006

# ETSI/@lis and 3GPP co-operation (1)

- ***Partnership with ETSI@lis programme on Brazil:***

  **➔ presence of the UMTS Forum at GSM Brazil (June 03/04/05) and Futurecom (Oct. 04/05) international conferences: stand within ETSI space, press briefings and keynote presentations**

  **➔ regular dialogue with ANATEL, Brazilian regulator**

- ***UMTS Forum was the first Market Representation Partner (MRP) in 3GPP:***

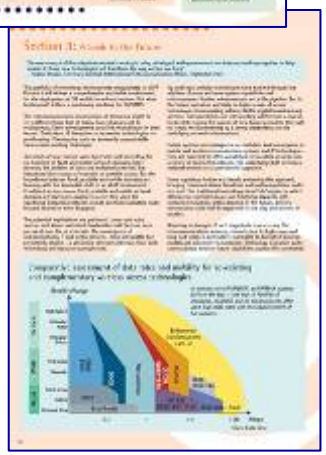
  **➔ Regular participation and contributions in 3GPP/PCG**

  **➔ Support of 3GPP standards in conferences worldwide**

  **➔ Implementation of 3GPP/Communications Strategy Group (CSG) with MRPs and OPs**

  **➔ Promotion of 3G/UMTS Long Term Evolution (LTE)**

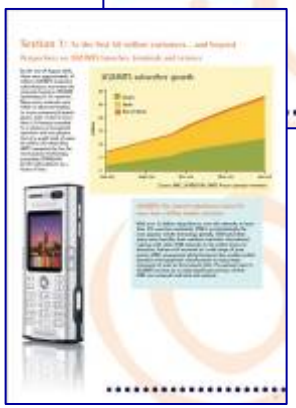
# 3GPP co-operation (2)



**'3G/UMTS: Towards mobile broadband and personal Internet'**

**Recent White Paper, Oct. 2005, written in collaboration with 3GPP TSG RAN Chairman, to be updated mid-2006**

- Market experiences and lessons learnt: perspectives on first network launches, terminals, services and tariff plans
- Standardisation: creating a stable environment for deploying 3G/UMTS mobile broadband services
- 3G/UMTS considered in the context of developments in other fixed and mobile networks
- A look to the future… 3GPP roadmap and mid- to long-term evolution of 3G/UMTS:
  - Radio Access Network Developments
  - Air Interface Developments (HSPA…)
  - Core Network Developments (IMS…)
  - 3G/UMTS Long Term Evolution



# For more information…

# www.umts-forum.org