

PCG15\_21



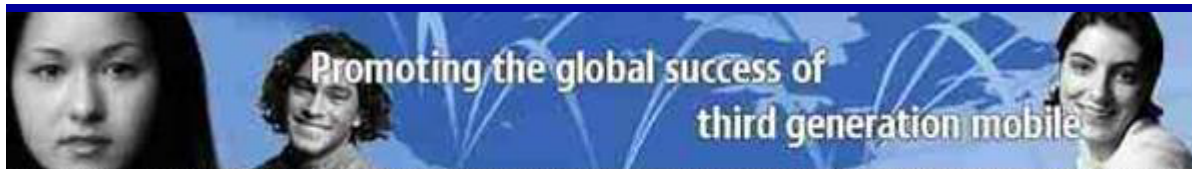
# UMTS Forum

## Overview of recent activities

**Jean-Pierre Bienaimé**

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**Chairman, UMTS Forum**



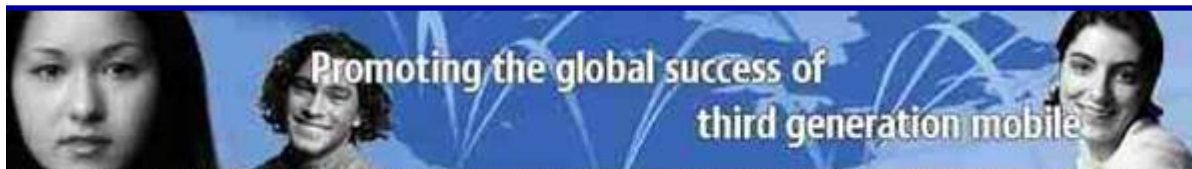
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October 6, 2005, Sophia Antipolis

# 2005/6 Workplan Summary

## Key areas of activity

- Continuing provision of inputs in anticipation of the next World Radiocommunication Conference (WRC-2007) on spectrum requirements for 3G/UMTS evolution and coverage extension for large areas of low population density
- Contributing via 3GPP and with other industry fora to the evolution of fixed/mobile convergence via a smooth IP migration path, and of radio access network enhancements via HSDPA/HSUPA
- Offering guidance to emerging markets and developing countries
- Promoting 3GPP standards, the Forum's reports and papers globally and respond to forthcoming consultations from Regulators and Public Authorities
- Assessing the new value chain for 3G/UMTS and beyond (including the role of IT/media companies) plus studies of other complementary technologies

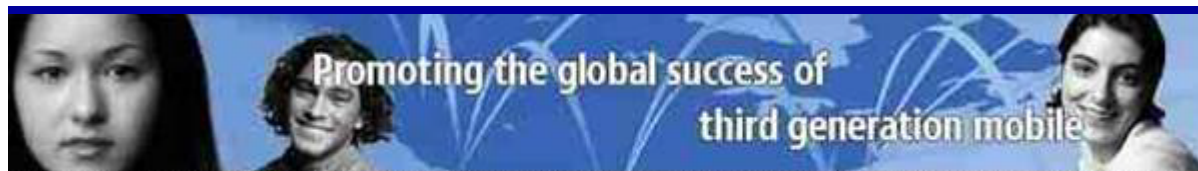


# Regional Visibility 2H '05

Selected conferences and events with UMTS Forum participation or endorsement



<b>INFORMA</b>	<b>Mobile Service Delivery Platforms</b>	<b>5-6 July</b>	<b>BRUSSELS</b>
<b>MOBILE MEDIA WORLD</b>	<b>Mobile Entertainment Summit and Marketplace</b>	<b>27-28 July</b>	<b>HOLLYWOOD</b>
<b>IBC ASIA</b>	<b>5<sup>th</sup> Annual Mobile Payments Summit 2005</b>	<b>18-19 August</b>	<b>BANGKOK</b>
<b>INFORMA</b>	<b>Planning and Deploying HSDPA</b>	<b>6-7 September</b>	<b>LONDON</b>
<b>IBC ASIA</b>	<b>South Asia Mobile Summit 2005</b>	<b>8-9 September</b>	<b>KARACHI</b>
<b>IST</b>	<b>IST 2005</b>	<b>10-12 September</b>	<b>SHIRAZ</b>
<b>MARCUS EVANS</b>	<b>HSDPA Network Deployment And Services Forum</b>	<b>14-16 September</b>	<b>LONDON</b>
<b>IBC ASIA</b>	<b>2<sup>nd</sup> Asia Pacific Push to Talk</b>	<b>15-16 September</b>	<b>BANGKOK</b>
<b>INFORMA</b>	<b>MVNO : Strategies and Markets USA</b>	<b>7-8 September</b>	<b>NEW YORK</b>
<b>IIR</b>	<b>Mobile Video and TV Conference</b>	<b>19-21 September</b>	<b>BERLIN</b>
<b>INFORMA</b>	<b>MVNO Strategies and Markets Europe</b>	<b>21-22 September</b>	<b>LONDON</b>
<b>INFORMA</b>	<b>MVNO in Russia</b>	<b>21-22 September</b>	<b>MOSCOW</b>
<b>IIR</b>	<b>9<sup>th</sup> International India Telecoms Summit</b>	<b>21-23 September</b>	<b>NEW DELHI</b>
<b>IETE</b>	<b>ICT The Road Ahead – 48<sup>th</sup> Annual Convention</b>	<b>23-25 September</b>	<b>NEW DELHI</b>
<b>MARCUS EVANS</b>	<b>Nordic Telecoms Forum</b>	<b>26-28 September</b>	<b>STOCKHOLM</b>
<b>DIARIO ECONOMICO</b>	<b>IV TELECOM CONFERENCE</b>	<b>27 September</b>	<b>LISBON</b>
<b>ITU</b>	<b>ITU TELECOMS AMERICAS 2005</b>	<b>3-6 October</b>	<b>SALVADOR DA BAHIA</b>



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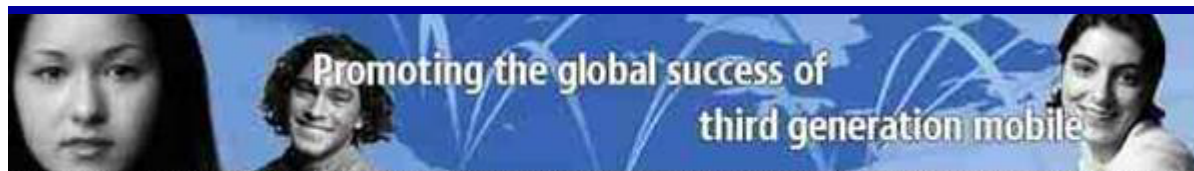
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# Regional Visibility 2H '05

Selected conferences and events with UMTS Forum participation or endorsement



INFORMA	Mobile Executive Forum	11-12 October	LONDON
INFORMA	IMS World Forum	12-14 October	AMSTERDAM
FUTURECOM	FUTURECOM 2005	24-27 October	BRAZIL
INFORMA	Successful 3G Launch and Growth Strategies	18-19 October	BRUSSELS
IQPC	HSDPA	19-20 October	FRANKFURT
IBC ASIA	HSDPA Deployment in Asia Pacific 2005	24-25 October	SINGAPORE
URSI	URSI GA28	23-29 October	NEW DELHI
IEE	6 <sup>th</sup> International Conference on 3G and Beyond	7-9 November	LONDON
TELEKOMUNIKACIJE	Challenges in Telco Business SEE & Central Europe	8-9 November	PORTOROZ
IIR	3G World Congress & Exhibition	14-18 November	HONG KONG
BIA	Mobile Europe 2005 - European Conference on Mobile Solutions	15-16 November	BREMEN
ITU	ITU/BDT Regional Seminar on FMC	21-24 November	TUNISIA
IDATE	UMTS Forum/IDATE Seminar	22 November	MONTPELLIER
UMTS-F/ITU	Joint Beirut workshop	28 November	BEIRUT
IIR	MVNO – Business and Partnering Strategies	28 Nov–1 December	CANNES
KIPA/INFORMA	IMOBICON KOREA 2005	29-30 November	JEJU ISLAND, KOREA
INFORMA	GSM Africa	30 Nov–1 December	CAPE TOWN
FT	World Telecommunications Conference: Beyond Voice	5-6 December	LONDON

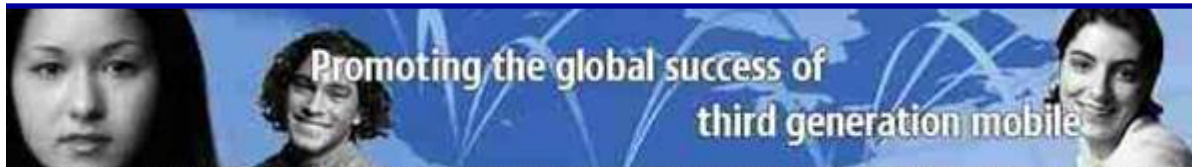


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# Spectrum Aspects Group

## Activities summary



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# UMTS Forum Spectrum Aspects Group

## Key Areas of Activity in 2005



- **Studies and contributions on harmonisation of global spectrum and additional spectrum arrangements for IMT-2000 and its evolutions, in the perspective of European decisions and in preparation of WRC-07**
- **In particular, the UMTS Forum has contributed to the development of the European decision harmonizing the frequency band 2500-2690 MHz for IMT-2000/UMTS and defining the channelling arrangements**
- **Guidance to regulatory authorities and national administrations on licensing and other 3G-related issues**

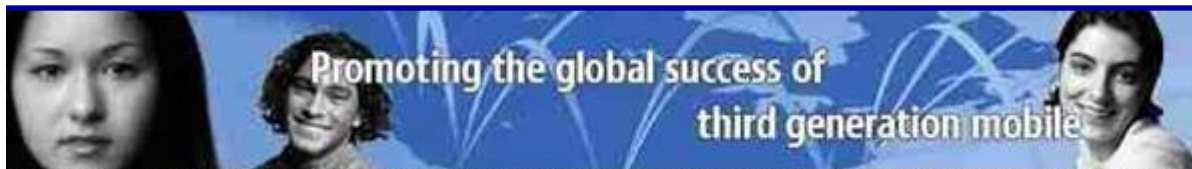


# Discussions in ECC PT1 & EC

## Technology neutrality at 2.6 GHz band

- **Background:** At last RSC meeting (June '05), Member States discussed the outcome of a Mandate to CEPT concerning channeling arrangements for IMT-2000 in the 2.6 GHz band. EC produced a document which makes an assessment of the results of the mandate. There was common agreement at the RSC that the CEPT had fulfilled the mandate. However, on the degree of technology neutrality it is necessary for the EC and the RSC to take further action aimed at clarification before a draft Commission Decision can be submitted to the RSC.
- The Commission has expressed its views concerning the non-exclusive use of this band, meaning that IMT-2000 and other technically compatible technologies would be allowed to access the 2.6 GHz band. The Commission is interested to collect views from Member States and constituencies regarding the impact of a Commission Decision that clearly opens the 2.6 GHz band for IMT-2000 and other compatible technologies.

**Deadline for responses to consultation document was 22 August 2005. UMTS Forum has responded in spirit of CEPT/ECC Decision**





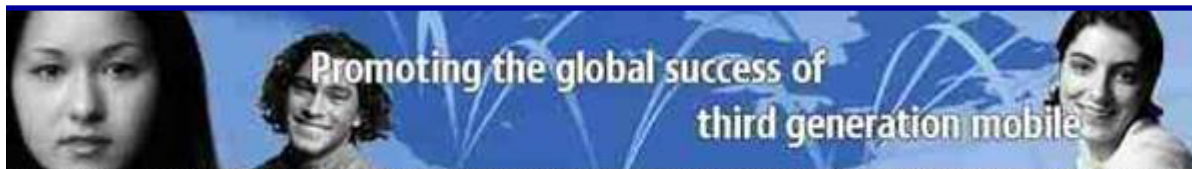
# Future use of UMTS TDD core bands

Discussion on the future of the 2010 – 2025 MHz (Self Provided Applications) TDD band



## UMTS Forum contribution delivered June 2005

- ECC made a decision that both TDD bands in the IMT-2000 core bands can be looked at. Actually, the whole ECC/DEC/(99)25 can be revisited. Earlier Forum input to Biel/Bienne meeting will be updated with the addition that the spirit of (99)25 should be not changed prior to sending to next ECC PT1 meeting.
- UMTSF/SAG sent a new document based on the original sent to ECC PT1 in May '05, **recommending to allow usage of TDD bands for FDD-uplink or TDD**. The only addition is the support of the current scope of the ECC/DEC/(99)25 (band plan for UMTS in the IMT-2000 core bands). ECC revised the terms of reference of PT1 to discuss all topics in this decision. This may open the core band for more technological neutrality.





# Responses to consultations on 'New technologies'

## Response to EC/RSPG consultation on WAPECS

- WAPECS (Wireless Access Platforms for Electronic Communications Services) will impact various important European regulations including spectrum refarming, spectrum trading, licensing, technology neutrality and convergence

- **Harmonized flexibility or flexible harmonization ?...**

- SAG is drafting Forum response to RSPG public consultation on WAPECS: deadline for comments 15 September

- Flexibility to be considered on a band-by-band basis, in order to avoid spectrum and equipment market fragmentation, as well as lower spectrum efficiency

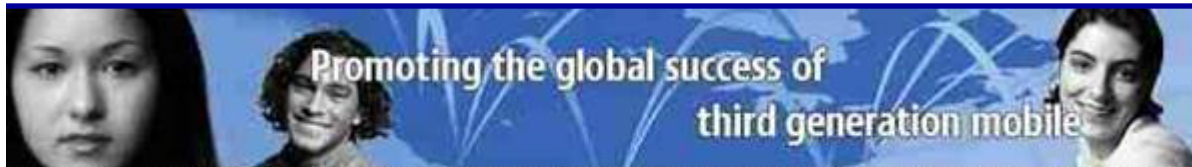
## OECD Consultation on WiMAX

- UMTS Forum response delivered end July



## Other spectrum-related topics

- Further analysis of **candidate bands** for systems beyond IMT-2000 (WRC-07 Agenda Item 1.4), based on ITU WP8F doc. UMTSF contribution was sent to ECC/PT1 beginning Sept.
- Drafting of a white paper on the **standardized WCDMA bands**, possibly with comments on regulatory status and availability.
- Further contribution to ECC TG3 on the requirement to **protect mobile systems beyond IMT-2000 in the band 3–5GHz** from the interference of UWB.

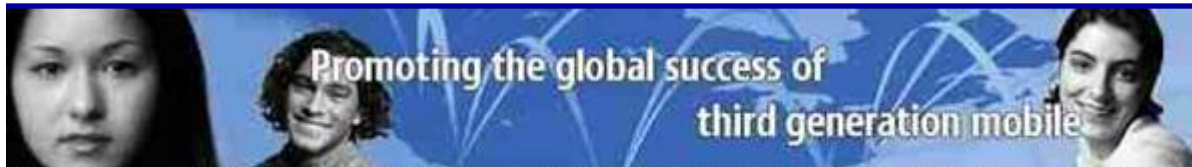


# Protection of future mobile systems

Input to 10th ECC TG3 meeting, Copenhagen, 11-13 July 2005



- Based on recent discussions, there seems to be a risk that UWB devices with the FCC limits could be allowed in Europe in the band 3 – 5 GHz (with some mitigation techniques), which would then endanger the WRC-07 agenda item 1.4 and the possible implementation of future mobile systems in this band.
- Based on recent studies and contributions, there seem not to be any fundamental reasons why UWB could not be implemented above 6 GHz in the near future. Taking into account the time to develop the required mitigation techniques for the band 3–5 GHz, UWB equipment above 6 GHz could be a competitive alternative.
- UMTS Forum suggests that UWB should be implemented above 6 GHz with a sufficient Power Spectral Density (PSD) level. This would solve best the most difficult sharing cases that are under consideration in ECC TG3.



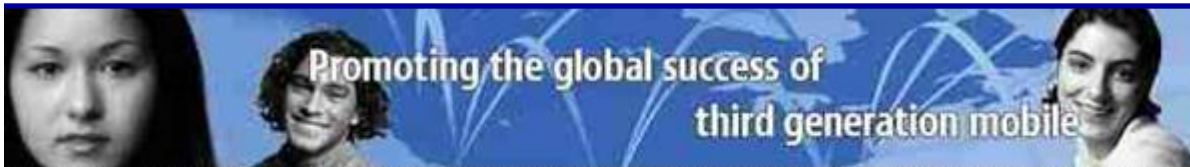
# 16<sup>th</sup> ITU WP 8F meeting

## Québec City, 8-15 June '05



- UMTS Forum Report 37 "Magic Mobile Future 2010-2020" presented to meeting, following the first detailed response (February) to the ITU Questionnaire on "IMT-2000 services and beyond", consistent with UMTSF Report 38.
- Contribution of Cameroon and Cote d'Ivoire presented their proposal of lower frequency bands for developing countries, referring to the text of the 'Declaration of Nairobi', signed during UMTSF workshop (10 May 2005) on "Improving coverage of mobile communications in Africa", in cooperation with the African Telecommunications Union (ATU).

**UMTS Forum contribution occupies a significant presence in the working documents towards the final ITU Market & Services Report (October). Executive Summary under current finalization for delivery at WP8F meeting in Helsinki.**





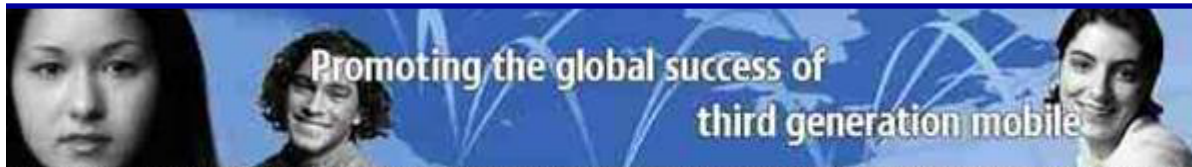
# Emerging Markets

## External Communications on Spectrum – e.g. India

- Press release issued (25 May 2005) Welcoming TRAI Recommendations on Core IMT-2000 (3G) Spectrum for India
- “The UMTS Forum recommends that 3G/IMT-2000 2GHz spectrum is released to India's mobile operators in due time to keep pace with 3G/UMTS developments in the rest of the world. Moreover, 3G/IMT 2000 2GHz spectrum and additional frequencies at 800MHz should be released simultaneously.”



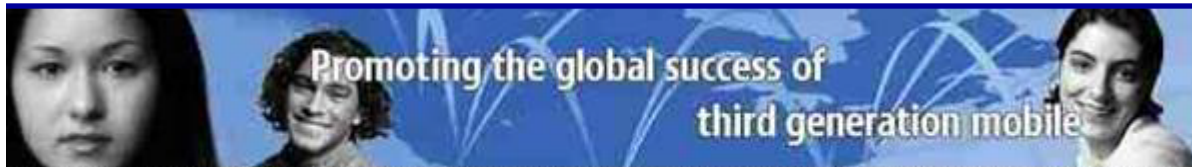
The screenshot shows a web browser window displaying the UMTS Forum website. The main headline reads "Promoting the global success of third generation mobile". The page features a navigation menu on the left, a search bar, and a central section for "Press Releases". The highlighted press release is titled "UMTS Forum Welcomes TRAI Recommendations on Core IMT-2000 (3G) Spectrum for India" and is dated "25 May 2005". The text of the release states that the UMTS Forum has welcomed recommendations from the Telecom Regulatory Authority of India (TRAI) regarding the release of WARC-92 frequency bands (1920-1980/2110-2170 MHz) for IMT-2000/UMTS networks. It also mentions that TRAI affirmed its support for India's adoption of the global spectrum plan proposed by the ITU for IMT-2000 mobile services. The release further notes that the UMTS Forum has been actively involved with TRAI in discussions regarding Indian 3G spectrum allocations since April 2004.



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# Public Relations, external visibility and new publications



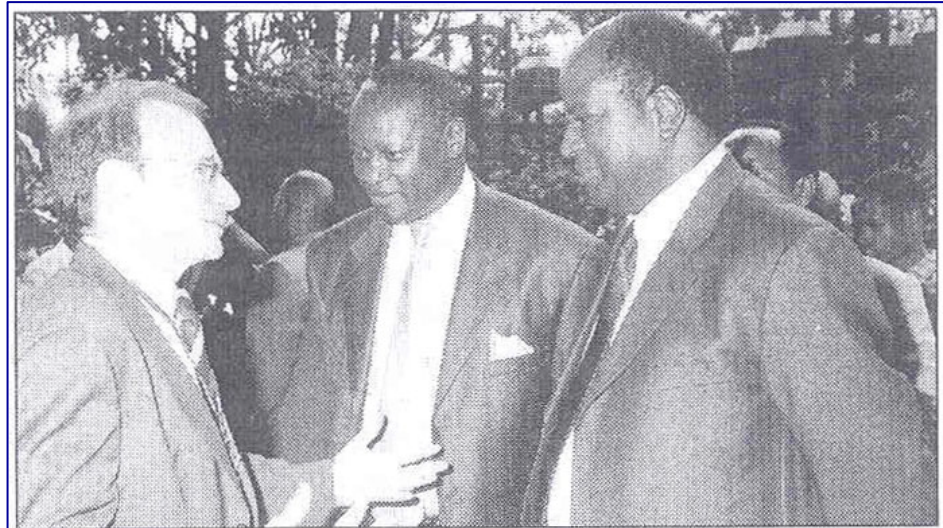
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# Regional PR activities: Africa

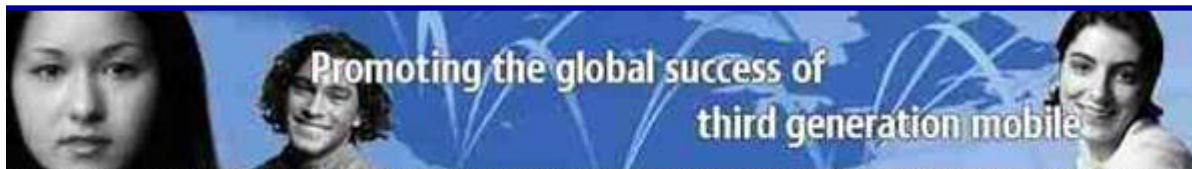
## Kenya

- **May 2005: News announcement at regional workshop 'Improving Coverage of Mobile Communications in Africa'.**
- **Key messages delivered on potential use of frequencies below 600MHz to narrow 'digital divide' in developing areas of African region.**
- **Workshop co-incided with ITU Regional Seminar for Africa on Fixed Mobile Convergence, Nairobi.**



Information and Communication Permanent Secretary James Rege (centre) listens as UMTS Forum chairman Jean-Pierre Bienaime (left) explains a point. Looking on is CCK acting Director-General James Kulubi.

*The Standard* newspaper, Nairobi, 10 May 2005

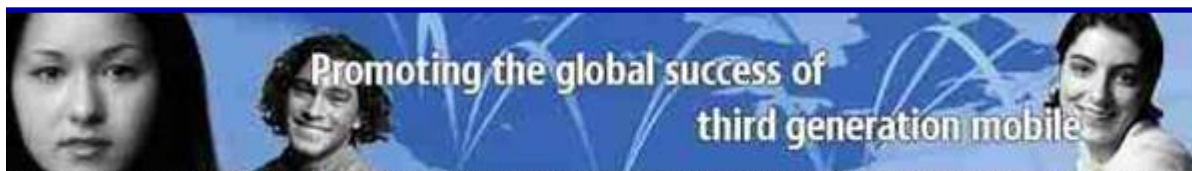




# Regional PR activities: Africa



- Press release issued after workshop organised in Nairobi (10 May 2005) by the UMTS Forum on "Improving coverage of mobile communications in Africa", in cooperation with the African Telecommunications Union (ATU).
- "Administrations in the region should allocate to 3G/UMTS the globally harmonised spectrum identified by ITU for UMTS/IMT-2000. Furthermore, administrations should work to identify and allocate harmonised radio spectrum for 3G services in the bands between 470-600 MHz. These frequencies provide clear opportunities for coverage to reduce the 'digital divide' between dense and sparsely populated areas and between developing and developed countries."



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# Regional activities: Russia

## Moscow

- June 2005: Joint press conference held with Russian 3G Association – ‘Strategy of third generation network development in Russia and worldwide’.
- Joint press release calls for Russia to harmonise its Third Generation licensing and roll-out plans with Europe and other global markets.
- Event attended by 15 journalists from leading Moscow-based national newspapers, business and trade publications.



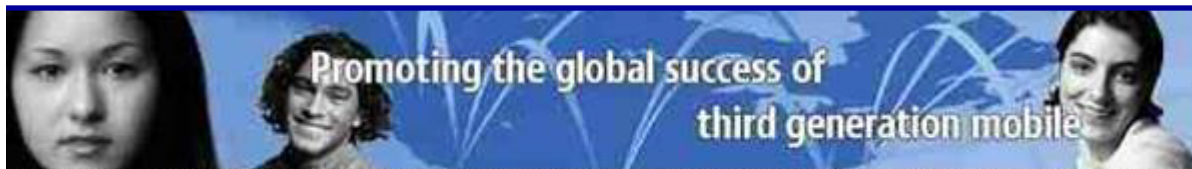
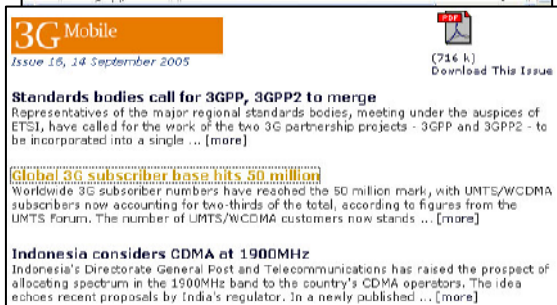
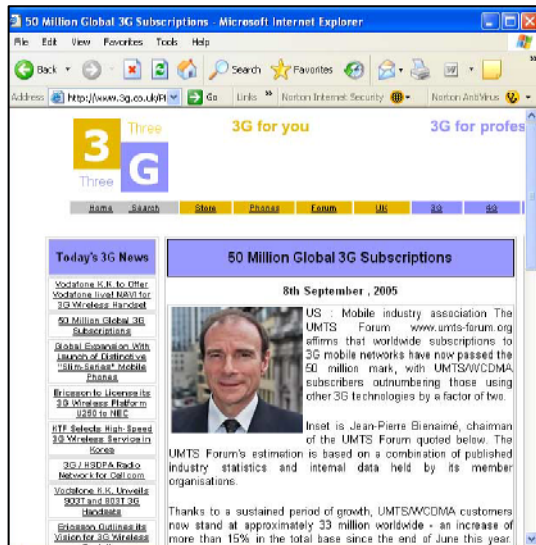
A3G joint press conference, Moscow 20 June



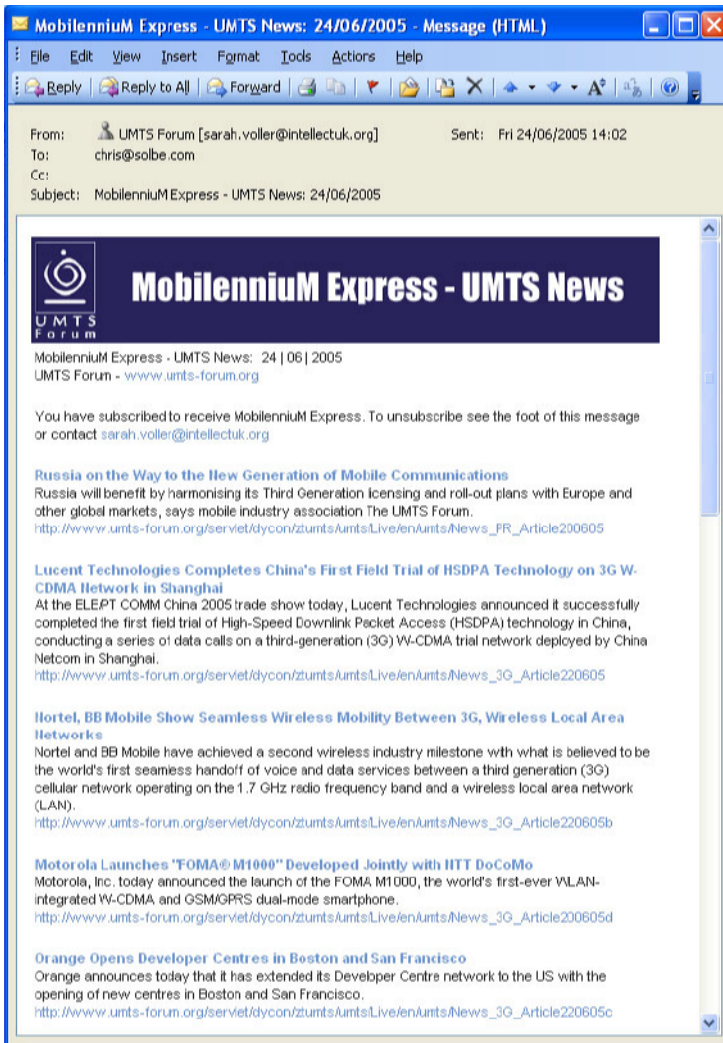


# External Communications (1)

- Press release issued 06 September: “Global 3G subscriptions hit 50 million”
- Announcement focusing on 33m WCDMA subs vs. 17m EV-DO (factor of 2:1)
- Extensive media coverage of story in Europe, Asia and US



# External Communications (2)

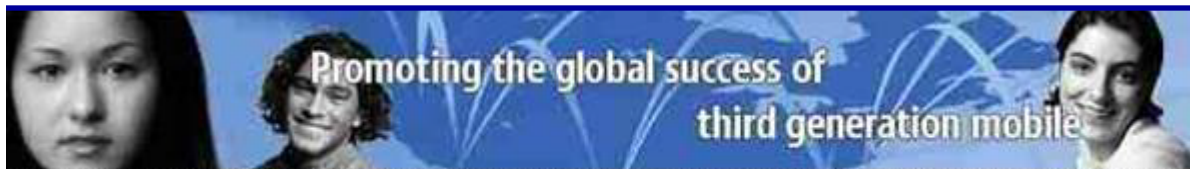


## Mobilennium Express

➤ **Weekly e-newsletter delivered to more than 6,000 free subscribers**

## Web site

➤ **Subscriber figures, networks and devices updated regularly**





# Recent Publications (1)

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

New White Paper published October 2005

- Revision/update of previous edition (originally published Feb 2005)
- Market experiences and lessons learned: 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: Towards mobile broadband and personal Internet**

A WHITE PAPER FROM THE UMTS FORUM

Introduction

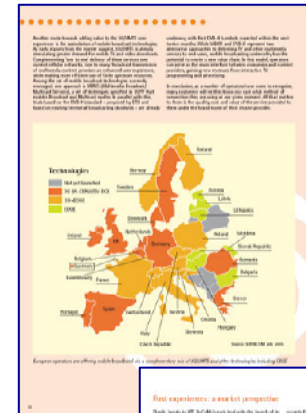
Section 3: A Look to the Future

Comparative assessment of data rates and usability for co-existing and complementary wireless access technologies

UMTS subscriber growth

UMTS: The global challenge

UMTS: The global challenge

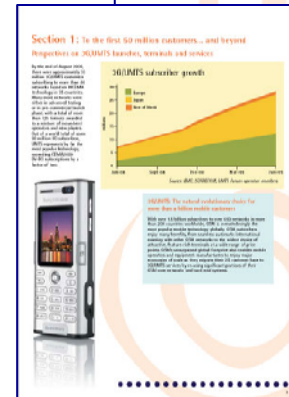



**New experiences: a market perspective**

UMTS subscriber growth

UMTS: The global challenge

UMTS: The global challenge

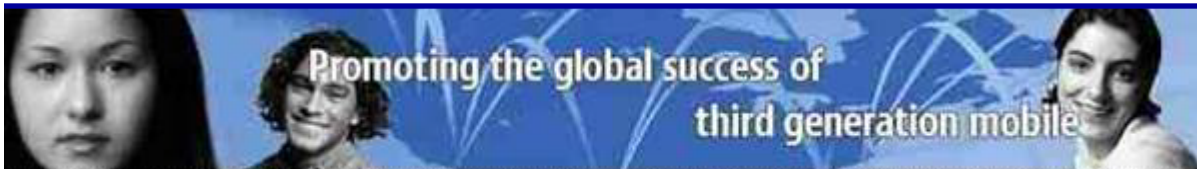


**Section 1: To the first 50 million customers... and beyond**

UMTS subscriber growth

UMTS: The global challenge

UMTS: The global challenge

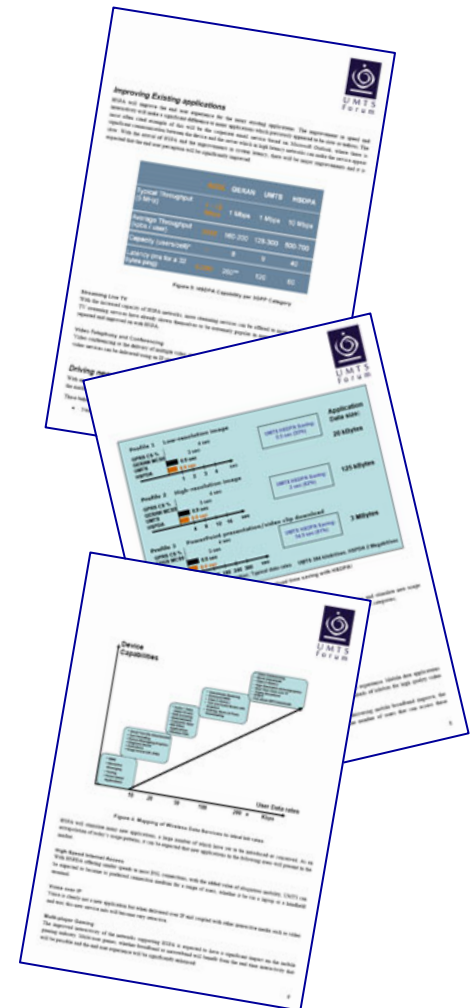


# Recent Publications (2)

## HSPA: High Speed Wireless Broadband From HSDPA to HSUPA and Beyond

New White Paper to be published October 2005

- HSPA Technology explained
- Terminals
- Operator and end-user benefits
- Applications & enhancing the end-user experience
- Network equipment and terminal availability
- Evolution (3GPP Rel 6 >>> 7)



**For more information...**

**[www.umts-forum.org](http://www.umts-forum.org)**



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