



# Annual Report 2006 and Directions for 2007

# 100 million reasons to celebrate

At the start of another year 3G/UMTS has quietly passed a major milestone. With 100 million subscriptions to more than 150 commercial WCDMA networks worldwide, UMTS has emphatically confirmed its status as the world's most popular 3G technology – and the fastest-growing. What's more, over 90 operators have already commercially deployed HSDPA, the second phase of offering high speed mobile broadband services promised by 3G/UMTS.



*10 years, 100 million customers: UMTS Forum tenth anniversary meeting in Brussels.*

Factoring in a further contribution of more than 50 million CDMA2000 1xEV-DO customers, the global 3G cellular subscriber count for all technologies now stands at well over 150 million. Of this total, WCDMA subscriptions now account for two thirds of all 3G cellular connections. On the basis of today's spectacular growth rates, it's now reckoned by mobile market information provider Wireless Intelligence that worldwide 3G subscriber numbers for all technologies will comfortably exceed 275 million by the end of 2007. Looking further ahead, by the end of this decade we can expect WCDMA to account for around three quarters of a global 3G subscriber total approaching 800 million. By the end of the decade UMTS/WCDMA will approach 600 million connections, or more than a seventh of all mobile subscriptions. And by 2010 we also expect worldwide cellular subscriptions (spanning all second and third generation technologies) to exceed 4 billion, almost doubling today's global penetration levels. However you look at the numbers, 3G/UMTS is the present – and it's our mobile future, too.

Putting speculation about tomorrow aside for a moment, the year's real buzz has been the wave of exciting mobile broadband services and applications enabled by

3G/UMTS. Multimedia portals have evolved dramatically, offering a compelling, easy-to-use gateway to news, mail, web and other services. On-the-move access to music and video is a daily reality for millions of subscribers, and we're seeing tangible evidence of strengthened non-voice revenues for operators as a result. Many industry hopes are of course riding on mobile TV. Just as other information and entertainment services are already migrating to mobile platforms, television is finding a new audience on the world's most popular consumer electronics device. There are several technological options on the table for the broadcast delivery of multimedia content to handheld terminals. While it's clear that no single standard will dominate the global market for mobile TV services, the cellular industry as a whole is becoming part of a far larger digital communications industry.

In this new ecosystem, many of the same opportunities and challenges are now shared with broadcasters, content owners, platform providers and device manufacturers. In the UMTS Forum we remain 'technology agnostic', preferring to analyse the various proposed systems from a viewpoint of spectral efficiency, investment, regulation and service delivery requirements. With mobile TV promising to create significant new opportunities right across the value chain, the UMTS Forum is delighted to have created with the GSM Association a new Joint Working Group that will investigate this nascent market segment in depth during the course of 2007. The group has already presented its first report, "Mobile TV, the Groundbreaking Dimension", in Brussels at the end of November.

Much of the spectacular growth in demand for 3G services over the next few years will of course come from growth markets like India, China, Eastern Europe, Latin America, Africa and the Middle East. Here there is enormous potential for 3G/UMTS – and its high-speed HSPA enhancements – to provide cost-effective voice and data services in urban regions as well as geographically scattered areas of low population density where fixed line connectivity and PC penetration levels remain low. As in previous years, the UMTS Forum has maintained its presence in world regions where 3G licensing and commercial launches have not yet taken place. Here regular dialogue with regional administrations has been complemented by regional workshops and seminars plus high-profile visibility at leading conferences and exhibitions. Outside Western Europe and other developed regions, the true legacy of 3G/UMTS may well be helping connect the unconnected by democratising the mobile Internet and multimedia communications for billions of the planet's citizens.



*A seminar of the UMTS Forum/GSM Association Mobile TV Joint Working Group, November 2006.*

It's now more than a decade since the UMTS Forum was founded in 1996 at the instigation of the European Commission. A highlight of last year was a celebration of the Forum's tenth anniversary in Brussels. Drawing together 'Forum Friends' past and present, the event provided an enjoyable opportunity to assess the positive results of our activities over the last decade. It also gave Forum members the chance to share some personal reminiscences – and to compare the reality of today's 3G/UMTS customer experience with our collective vision back in the mid-1990s, long before licenses were issued and business plans signed off.

At the start of 2007, the trillion-dollar question for our industry is 'where next for 3G?' Just a few years from now, 3G Long Term Evolution (LTE) will usher in a new wave of very high speed mobile broadband services for the benefit of operators and end users alike. Just as the UMTS Forum has promoted dialogue and mutual understanding between all industry players over the last decade, it's our continuing mission to support industry, administrations and other stakeholders as we face up to the challenges and opportunities brought by these exciting technological developments.

**10 years of the UMTS Forum, and 100 million 3G/UMTS subscribers.** The story's just beginning – and in the meantime there are certainly a lot of reasons to be celebrating in 2007!

Yours sincerely,

Jean-Pierre Bienaimé  
Chairman  
January 2007



*Guillaume Decarreau (France Telecom R&D China) addresses UMTS Forum/TD-SCDMA Forum joint seminar, Beijing.*

# A mission to promote the success of 3G/UMTS

## UMTS Forum objectives

- To emphasise the benefits to operators and end users of 3G/UMTS and its evolution in the context of other technologies, in particular towards the European Commission, the International Telecommunication Union (ITU), public authorities and the media.
- To propose a roadmap of 3G/UMTS evolution consistent with that of 3GPP, including adaptations that might be required by the market.
- To facilitate the shaping of a regulatory framework, including the provision of sufficient spectrum, and to progress on spectrum key issues.
- To provide market expectations and inputs to the global standardisation process, and to explore complementary and new technologies.
- To deepen social shaping and customer behaviour studies.
- To ensure a regular watch and reporting action on 3G/UMTS launches worldwide and the evolution of operators' business models.
- To organise promotional actions, in particular towards decision-makers and the financial community.

## Support to ITU activities

The UMTS Forum remains an active member of the three ITU sectors (ITU-D, ITU-R and ITU-T), making regular contributions to meetings.

In anticipation of this year's forthcoming World Radiocommunication Conference (WRC-07), the Forum supports the identification of additional terrestrial spectrum for IMT (WRC-07 Agenda Item 1.4). In the context of the expected 'digital dividend', the Forum has consistently lobbied for the selection of a harmonised spectrum sub-band in the lower part of UHF band, as a candidate band at WRC-07. Participation at ITU-R meetings in January and May 2006 resulted in the Forum's Report #40 being included as an annex to the ITU spectrum estimate report.

Following its participation at the ITU World Telecom Development Conference (WTDC-06) in Doha during March 2006, the Forum was subsequently admitted as a new member of the ITU's "Connect the World" Initiative. Visibility at the ITU-R RRC-06 conference in Geneva was marked by the distribution of an open letter on Mobile TV signed jointly by the UMTS Forum and the GSM Association.

Presentations were delivered at the ITU-D Regional Seminar on Arab Countries in Algiers (June 2006) and at the ITU-T Study Group #19 "Mobile Telecommunication Networks", followed by attendance at the ITU-T 50th Anniversary event in Geneva during July.

Contributions to the ITU-R WP 8F meeting in Denver (August) included a further compatibility study between DVB-T and UMTS operating in the 470-862 MHz band, as well as an input to the Principles for the Standardisation and Harmonisation of IMT-Advanced. As a result, the advantages of the sub-band 470-600 MHz were recognised in the draft CPM text finalised by the

meeting. It was also concluded that co-existence is possible for low and medium broadcasting power emission with band segmentation. At last, the draft Resolution on the Principles for the process of development of IMT-Advanced has been finalised, reflecting well the UMTS Forum's views.

In September 2006 the Forum co-sponsored the ITU-D Regional Seminar on Broadband Wireless Access (BWA) for rural and remote areas for Africa, held in Yaoundé, Cameroon. This was followed in November by participation at the ITU Plenipotentiary Conference 2006, in Antalya, Turkey, where the Forum presented its ongoing project on coverage extension in 470-600 MHz spectrum bands for IMT-2000 at the first executive board meeting of the ITU "Connect the World" initiative.

The year concluded with the Forum's presence at the ITU Telecom World 2006 event in Hong Kong. A keynote presentation on "Mobile Lifestyles: Towards the Magic Mobile Future" was complemented by an appearance on the ITU Telecom TV panel, "Wireless beyond 3G".

## Partnership with ETSI/3GPP

Ongoing co-operation with ETSI and 3GPP to support the standardisation process was emphasised in a range of activities over the course of 2006. The Forum was an active participant at key meetings including the ETSI General Assemblies, the IPR ad hoc ETSI Working Group and the 3GPP/PCG (Project Co-ordination Group). As in previous years, in the framework of the European Commission @LIS program of promotion of ICT in Latin America, the Forum shared space on the ETSI exhibition stand at the Futurecom conference and exhibition held in Florianopolis, Brazil, during October 2006.

## Support to CEPT/EC Activities

UMTS Forum representatives have made a regular contribution to the activities of CEPT/ECC Spectrum Work Groups (PT1 & ECC Plenaries). This has provided the opportunity to present position/contribution papers on issues including:

- UMTS Forum position on the 2500-2690 MHz IMT-2000/UMTS harmonised band in front of the EC
- UMTS Forum position to use Ultra Wide Band (UWB) applications at spectrum bands above 6 GHz
- Response to EC public consultations on WAPECS in IMT-2000 bands

Presentations at the EC Mobile TV workshop in Brussels (February 2006) were followed by participation at the European Mobile Broadcast Council (EMBC) launch meeting in July.

Keynote presentations on "Implementation of the Digital Dividend" and "The Future of Telecommunications" were delivered at the 13th CEPT Conference in Berlin during October.

An audience including more than a dozen EU executives and representatives was welcomed at the UMTS Forum's Mobile TV Seminar in Brussels (November) with an address by Christoph Forax, Member of Commissioner Reding's Cabinet. Reflecting ongoing debate in Europe about future regulatory models on wireless spectrum usage, the UMTS Forum's study, "Thriving in Harmony - Frequency harmonisation: the better choice for Europe", was delivered in December to Members of the EC and the European Parliament, before presentations in January 2007. This study indicates that maintaining the EU's harmonised approach to frequency spectrum policy will bring clear economic benefits to Member States.

## Responses to Public Consultations

The Forum has continued to present its own response to public consultations as an integral part of its mission to shape the 3G regulatory framework. During 2006 these have included responses to:

- Public consultation by the Telecom Regulatory Authority of India (TRAI) on Allocation and Pricing of spectrum for 3G services and Broadband Wireless Access
- Spectrum management consultations by the Kingdom of Saudi Arabia; the Australian Communications & Media Authority; and the German Federal Network Agency

- Response to the EC/RSPG consultation on the introduction of Multimedia Services in frequency bands allocated to broadcasting services
- Response to the EC Public consultation on the European Regulatory framework review
- Response to the RSPG draft opinion on EU spectrum policy implications of the digital dividend

## Relations with Administrations and Regulatory Bodies

Following the first UMTS Forum Seminar in Beirut in November 2005, the Forum's 'Mission to Lebanon' continued in May 2006 with advisory support to the High Committee for Mobile Communications, chaired by His Excellency Mr. Marwan Hamade, Minister of Telecommunications for Lebanon. Preparations are currently underway for the next UMTS Forum Seminar in Beirut during H2 2007.

An intensive 'Spectrum Roadshow' organised by UMTS Forum representatives in Latin America during May/June included meetings with Regulators in Brazil, Argentina, Uruguay, Chile and Peru. Discussions focused on WRC-07 spectrum issues, the Forum's position in support of the identification of more terrestrial spectrum for IMT (Agenda item 1.4 at WRC-07), including the appeal of lower frequency bands for 3G/UMTS coverage, underlining key UMTS Forum messages for WRC-07 in view of the Regional CITELE meeting in mid-June.

During September's ITU-D Regional Seminar in Yaoundé, a Forum delegation was received by His Excellency Mr. Bello Boubake Maïgari, Minister of State, Minister of Post & Telecommunications of Cameroon. The meeting permitted an exchange of views on key issues relating to 3G/UMTS and mobile broadband in Cameroon and Africa. The membership of the Ministry of Post & Telecommunications in the UMTS Forum was confirmed officially at the meeting.

In November, the Forum's 39th General Assembly in Sofia, Bulgaria, was welcomed with an opening address by the Chairman of the Communications Regulatory Commission, and by the State Department of Communications Representative. During the ITU Plenipotentiary Conference in Antalya, contacts were strengthened with national Administrations including France, Lebanon, Romania, Hungary and Egypt.

# Key Growth Markets Action Plan

During 2006 the UMTS Forum continued to provide inputs to national administrations in growth markets. Following a keynote speech delivered at February's Growth Markets Analysis Seminar, coinciding with the 3GSM World Congress in Barcelona, other highlights included:

## Brazil

Ongoing dialogue between the Forum's Latin American representatives and regulator ANATEL was complemented by a targeted programme of press briefings and participation at the Futurecom 2006 conference. A keynote presentation at the event was complemented by a shared presence on the ETSI exhibition stand within the framework of the European Union's @LIS programme.

## Russia

After two successful events held in 2004 and 2005, the third 3G Strategic Leadership Joint Seminar was held in Moscow during June in partnership with Russia's 3G Association (A3G) and OMA. Examining the technological, regulatory and socio-economic impacts of 3G mobile networks on Russia's telecoms industry and end users, the seminar coincided with visibility at Informa Telecoms & Media's GSM>3G Russia 2006 conference. Follow-up activities with A3G Russia later in the year included the issuing of a press release urging that Russia's three 3G licenses in the 2GHz band should be allocated before June 2007 on a competitive tender basis. A concrete result of the joint lobbying actions of the Forum and A3G was the announcement of a fixed-fee license tender by Russia's Federal Communications Agency in December 2006.

## Ukraine

In the Ukraine, a similar 3G Strategic Leadership Joint Seminar was generously hosted by UMTS Forum member Ukrtelecom in Kiev during July.

## India

Developments in India's regulatory situation have been closely monitored by the Forum and regular inputs offered during the course of the year. Dialogue on regulatory and spectrum issues has been maintained with UMTS Forum member and local partner, the COAI (Cellular Operators Association of India), TRAI and the European Commission. In particular, a letter was sent to TRAI indicating the difficulties of implementing a 'mixed' band plan before TRAI's issue of its final Recommendations on 3G and BWA spectrum at the end of September. Keynote presentations were delivered during the course of the year at the IETE 2006 NGN International Conference in Mumbai and the India Telecoms Summit conference in New Delhi. In December, the India Telecom 2006 event featured the delivery of UMTS Forum key messages on 3G spectrum and licensing policy at a CEO Roundtable hosted by India's Honourable Minister of Communications and IT, Shri Dayanidhi Maran.

## China

Participation at the 3GPP/PCG China Workshop in Beijing during April was followed by delivery of a keynote speech at the 3G China Mobile Summit in Beijing during July. Held in October, the China Mobile Broadband Communications Leadership Seminar marked the first joint UMTS Forum/TD-SCDMA Forum event. Representatives from MOST, CATR and MII joined the successful event in Beijing that provided an opportunity to emphasise the complementary roles of WCDMA and TD-SCDMA for China's 3G industry. Towards the end of the year the Forum also participated at ITU Telecom World 2006 in Hong Kong.



Reception hosted by UMTS Forum member, Ukrtelecom, at the General Assembly and 3G Leadership Seminar in Kiev, July.

## Events

The Forum has maintained a prominent industry profile through its endorsement and participation at key conferences and exhibitions worldwide.



*Vice Chairman Gerry Collins speaking at a conference in Asia*



*UMTS Forum stand at 3GSM World Congress, Barcelona, February 2006*

Over the course of the last year there have been over 80 events where the Forum has provided keynote speakers, presenters, panellists and session chairs, or has offered its endorsement. In particular, the UMTS Forum Chairman, Vice Chairs and Officers spoke at the following events in 2006:

**3G World Mobile Forum**, Tokyo, Japan – 23–25 January 2006

**IETE-06 NGN International Conference**, Mumbai, India – 10–11 February

**3GSM World Congress 2006 (including Growth Markets Analysis Seminar)**, Barcelona, Spain – 13–16 February  
**European Spectrum Management Conference**, Brussels, Belgium – 29–30 March

**Broadband Africa 2006**, Johannesburg, RSA – 30–31 March

**Mobile Entertainment Summit & CTIA Wireless Conference**, Las Vegas, USA – 4–6 April

**Wireless Central Asia 2006**, Almaty, Kazakhstan – 26–27 April

**Wireless Broadband for the Mediterranean EETT Conference**, Athens, Greece – 3 May

**GSM>3G Russia 2006**, Moscow, Russia – 6–7 June

**Next Generation Mobile Networks (NGMN) beyond HSPA & EVDO**, Frankfurt/Main, Germany – 6–7 June

**ICC IEEE 2006 Conference**, Istanbul, Turkey – 12–14 June  
**Forum Economie Telecoms Les Echos 2006**, Paris, France – 13 June

**ITU-D Wireless Broadband Regional Seminar for Arab Region**, Algiers, Algeria – 19–21 June

**HSxPA Conference**, Prague, Czech Republic – 20–21 June  
**IQPC Mobile TV Conference**, Berlin, Germany – 4–6 July

**3G China International Mobile Summit 2006**, Beijing, China – 6–7 July

**GSM > 3G Middle East & Gulf**, Dubai, UAE – 11–12 September

**HSxPA Conference**, Amsterdam – 11–13 September

**ITU-D Regional Seminar on BWA for rural & remote areas for Africa**, Yaounde, Cameroon – 18–21 September

**Mobile TV International Conference**, Lorient, France – 28–29 September

**Futurecom 2006**, Florianopolis, Brazil – 2–5 October

**Deploying HSPA Conference**, Monte Carlo, Monaco – 3–5 October

**IMS Services Forum**, London, UK – early October

**MMC 06**, Berlin, Germany – early October

**13th CEPT Conference**, Berlin, Germany – 11–12 October

**3G LTE Conference**, London, UK – 18–19 October

**GSM>3G Africa 2006**, Cape Town, RSA – 19–20 October

**VITEL Conference**, Ljubljana, Slovenia – end October

**China Mobile Broadband Communications Leadership Seminar**, Beijing, China – 27 October

**India Telecoms Summit**, Delhi, India – 31 Oct–1 November

**IDATE/UMTS Forum Mobile Services Joint Seminar**, Montpellier, France – 14 November

**Ultra Low Cost Handsets Conference**, London, UK – 14–15 November

**Mobile TV UMTS Forum/GSMA Seminar**, Brussels, Belgium – 30 November

**ITU Telecom World 2006**, Hong Kong, China – 4–8 December

**3G World Congress & Mobility Marketplace 2006**, Hong Kong, China – 5–8 December

**India Telecoms 2006 & CEOs Roundtable**, Delhi, India – 14–16 December



Public Relations remains a powerful mechanism for communication of the Forum's activities and key messages to the media and a wide range of other external stakeholders.

Fifteen press releases were issued during the course of the year. Close relationships with the media have been maintained through an intensive schedule of briefings to international newspapers, magazines, on-line publications and broadcast news services. During 2006 resources were focused on regions targeted by the Forum's Growth Markets Action Plan – notably Latin America, Russia and Eastern Europe, India and China, as well as continental Africa and the Middle East.

Over 8000 named subscribers now receive "Millennium Express", the Forum's free weekly e-newsletter that summarises PR announcements from 3G/UMTS operators, manufacturers and application developers. This is complemented by regular updates on network launches, subscriber figures and other industry data on the Forum's web site, [www.umts-forum.org](http://www.umts-forum.org). Launched during 2006, a popular new resource on the site is a 'live' data feed from mobile market information provider Wireless Intelligence. This provides a convenient at-a-glance summary of key

WCDMA/HSPA market data points. These include network launch totals, regional growth rates, penetration levels ranked by country and a 'top ten' ranking of connections by operator.

## New Reports and Publications

Forum members have continued to benefit during the course of the year from a steady stream of reports, white papers and study documents on industry and market trends as well as regulatory and technical issues.

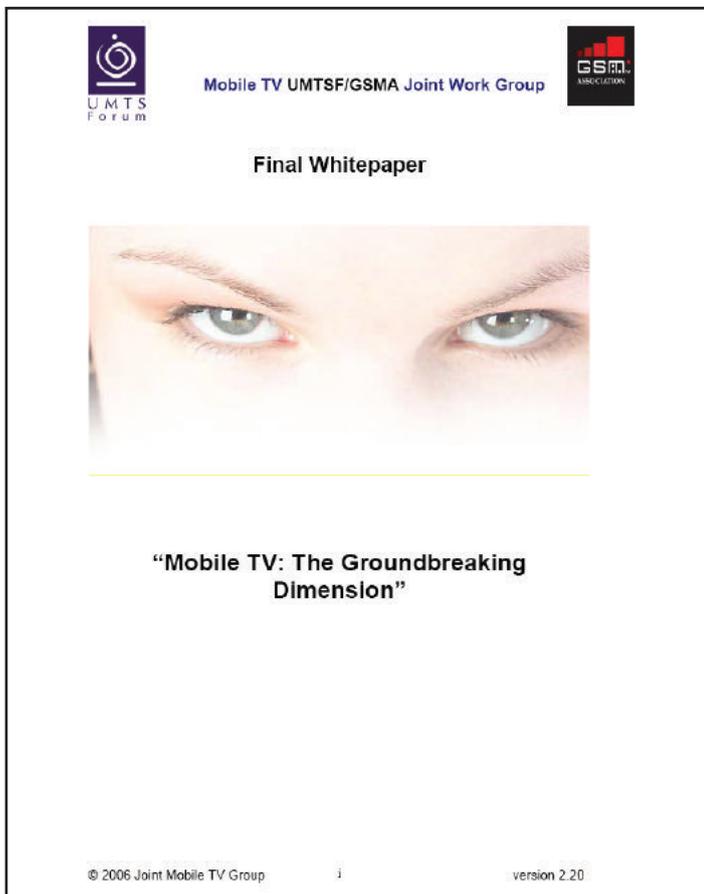
Two new studies were approved by the General Assembly and published as reports during 2006. Report #39, "The Global Market for High Speed Packet Access (HSPA): Quantitative and Qualitative analysis", predicts that HSPA will become the world's leading 3G mobile technology with almost one billion active users by 2012. The report also quantifies how the operator and end user benefits offered by HSPA technology will stimulate the market for new 3G data services.

Report #40, "Development of spectrum requirement forecasts for IMT-2000 and systems beyond IMT-2000 (IMT-Advanced)", represents a key element of the UMTS Forum's contribution to preparations for the forthcoming World Radiocommunication Conference (WRC-07). Prepared by the Forum's Spectrum Aspects Group, the report was delivered as a contribution to the ITU Working Party 8F meeting in January 2006.

The Forum also published four new white papers in 2006. The first of these, "Deployment of UMTS in the 900 MHz band", assesses the viability of delivering cost-effective mobile broadband services via 3G/UMTS to subscribers in sparsely populated and remote regions using frequencies below the core 1.9-2.1 GHz band.

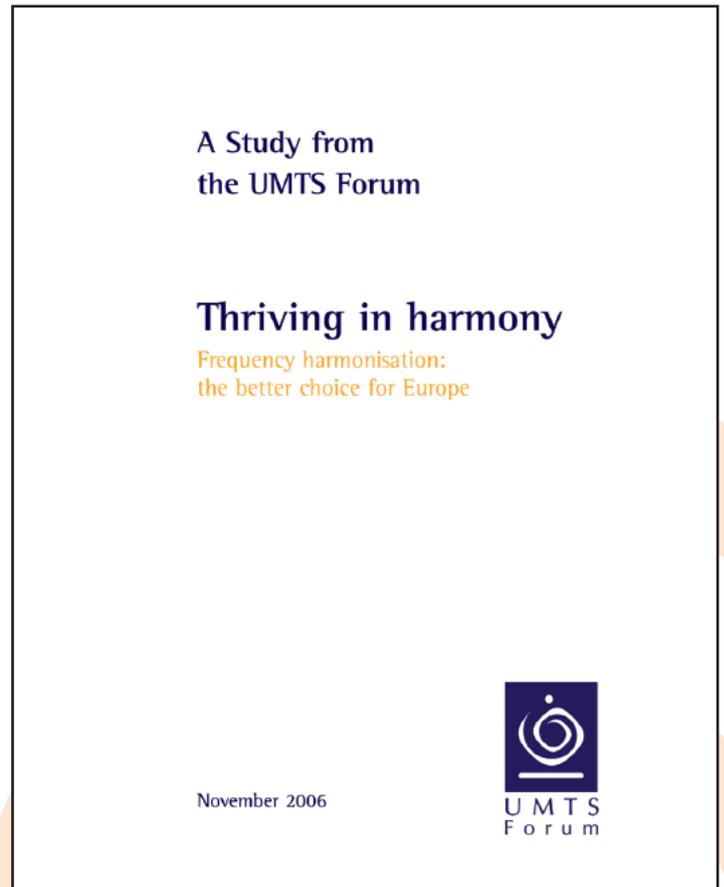
A second spectrum White Paper on "Frequency Bands available for UMTS around the World" was distributed at 3GSM Barcelona.

At the end of the year, the Joint Mobile TV working group of the UMTS Forum and the GSM Association published its first deliverable. "Mobile TV: The Groundbreaking Dimension" charts the key enablers for the mass-market success of mobile TV services in Europe and worldwide.



Published in December 2006 and written in co-operation with the 3GPP TSG RAN Chairman, "3G/UMTS Evolution: towards a new generation of broadband mobile services" updates previous papers by combining an overview of deployments, services and operator strategies with a technological roadmap for 3G/UMTS evolution in the medium and longer term.

Issued in November 2006, a special study conducted on the Forum's behalf by global strategy and technology consulting firm Booz Allen Hamilton – "Thriving in Harmony – Frequency harmonisation: the better choice for Europe" – suggests that maintaining the European Union's harmonised approach to frequency spectrum policy will bring clear economic benefits to the Member States. The study argues that continued harmonisation across the EU until 2020 will bring a significant increase in purchasing power for European consumers, resulting from lower prices and better use of available 3G/UMTS data and speech services. In addition, the study proposes that growth in end user market penetration will be more than a third higher in a harmonised environment than it would be in a liberalised market. Contents of the study's Executive Summary were presented at the 13th CEPT conference on 11 October 2006.



A standalone study entitled "Handbook on Complementary Radio Technologies in a 3G/UMTS Environment" was also approved by the General Assembly in July.

White papers, studies and executive summaries of all reports are available free of charge from the UMTS Forum website.

# UMTS Forum Work Programme for 2007

## Key Focus Areas

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, ETSI...)		
Key growth markets action plan		
Relationships with international media and financial community		
Visibility and participation at conferences, exhibitions, seminars and workshops		

## Specific activities for 2007

### Spectrum & Regulation

- Promotion of harmonised usage of existing IMT-2000 bands for 3G/UMTS
- Continuation of studies on spectrum for systems beyond IMT-2000 (IMT-Advanced)
- Promotion of UMTS Forum Harmonisation Study: analysis and comment on WAPECS and EC consultation on new regulatory and spectrum management frameworks
- Continued co-operation with GSM Association on spectrum related activities
- Participation in European discussions on usage of digital dividend

### WRC-07 Preparation

- Key Messages for CPM-07 (19 Feb-2 Mar) and WRC-07 (22 Oct-16 Nov) on Agenda Items 1.4 & 1.9
- Contribution on candidate bands:
  - Lobbying for capacity bands for advanced services
  - Lobbying for coverage bands below 1 GHz
- Conduct UMTS Forum project in ITU "Connect the World Initiative" (CtW):
  - Participation in Executive CtW meetings
  - Sharing studies (DVB-T, DVB-H, UMTS...)
  - Contribution in CEPT/ECC mandate on use of digital dividend
  - Concrete promotion of UMTS-500
- Co-operation with MiB initiative (Mobile Industry Backing terrestrial spectrum for IMT): organisation of joint seminars
- Dialogue with Regional Administrations (Africa, Latin America, Asia-Pacific etc) on benefits from IMT-2000 evolution and IMT-Advanced in reducing the digital divide

### Market & Services

- Assessment of information concerning forecast evolution of 3G/UMTS & Evolution market, services and usage for period 2007-2020
- Mobile Entertainment and Content: analysis and promotion

### Technical Issues & Implementation

- Promotion of HSPA and 3G Long Term Evolution (LTE) in media and industry through:
  - White Paper and other publications
  - Conference appearances
  - Media and analyst interviews
- Continued activities of UMTS Forum/GSMA Mobile TV Work Group:
  - Publication of second White Paper on Value Chain and Business Models
  - Publication of full Mobile TV Report
- Publication of study on Market Potential for 3G LTE
- 3G/UMTS Evolution in the context of Convergence
- Low Cost UMTS Terminal (LCUT) work plan
- Further studies on complementary technologies (FWA etc)

### Growth Markets

- Continued activities focused on large growth markets action plan, including workshops, dialogue with regulators, targeted messages and PR. In particular, the UMTS Forum will accompany the anticipated issue of 3G licenses in China, India, Brazil and Russia in 2007, as well as other key markets.



If you are interested in finding out more about the work of the UMTS Forum and the benefits of membership, please contact us at:

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