

3G/UMTS and its evolution: worldwide deployments & services - Perspectives for the Arab Region

Jean-Pierre Bienaimé

Chairman, UMTS Forum



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Summary



- About the UMTS Forum
- 3G/UMTS market update: deployments including HDSPA
- 3G/UMTS operator strategies: which services are boosting ARPU and subscriber base
- The Perspectives for the Arab Region



About The UMTS Forum



The UMTS Forum is an international, cross-sector industry body comprising operators, manufacturers, regulators, application developers, research organisations and IT industry players.

OBJECTIVES

To promote a common vision of the development and evolution of 3G/UMTS and to ensure its worldwide commercial success:

- > by expressing a strong industry voice promoting 3G/UMTS technology and its evolutions through lobbying and promotional actions globally
- \succ by forging dialogue between operators, manufacturers, administrations & regulators, and other market players that can ensure commercial success for all
- > by providing market knowledge to aid rapid development and uptake of new services and applications

To provide practical support to industry, administrations and policy-makers:

- > by offering guidance to governmental and financial communities, providing marketing input to technical standardization bodies (the Forum is a Market Representation Partner of 3GPP), and advising on spectrum requirements both for the present and future 3G systems
- > through its membership of the three sectors of ITU, in the activities of which it participates regularly such as the ITU-R WP8F in view of preparation for the next World Radio Conference 2007 (WRC-07)

The UMTS Forum serves the interests of all its members through educational and promotional activities in its role as the voice of the 3G mobile market.



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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		

Promoting the global success of third generation mobile 19-22 June 2006, Algiers

The mass market embraces 3G/UMTS



Some big numbers...

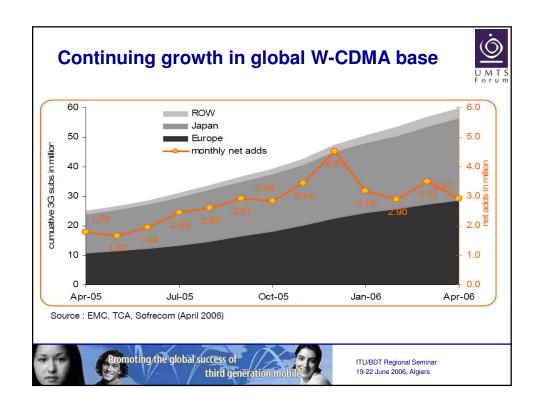
Almost **75 million** 3G/UMTS subscribers worldwide more than **110** W-CDMA networks launched commercially

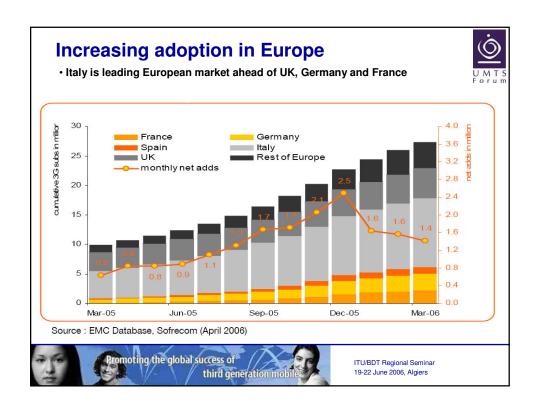
more than 315 W-CDMA devices launched or announced

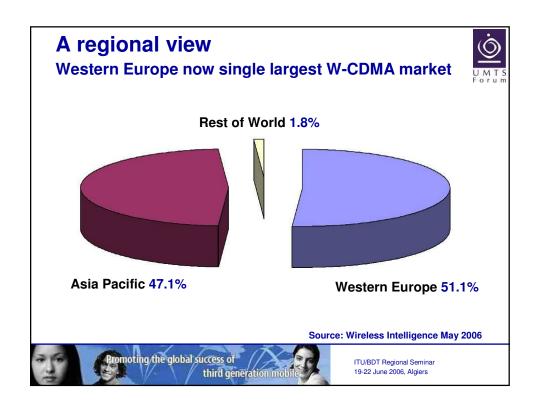
approaching 3 times as many W-CDMA subscribers as EV-DO worldwide

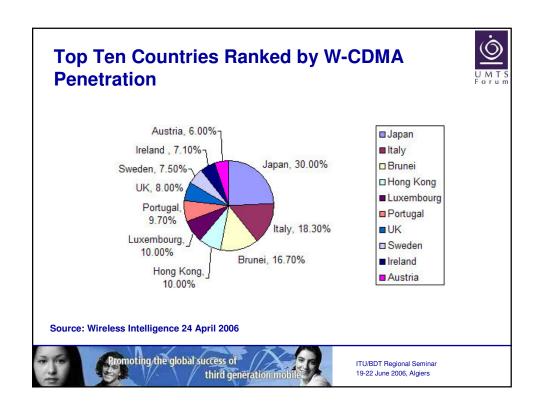
Industry sources including Wireless Intelligence, May 2006

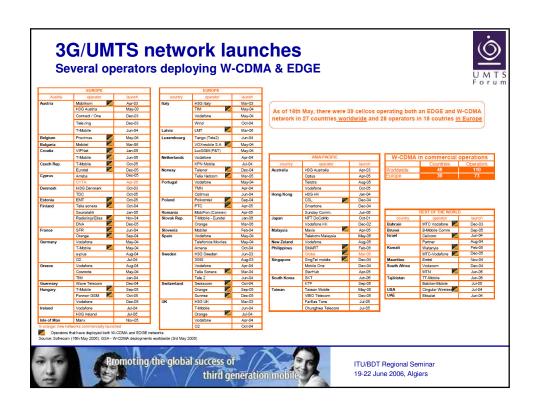


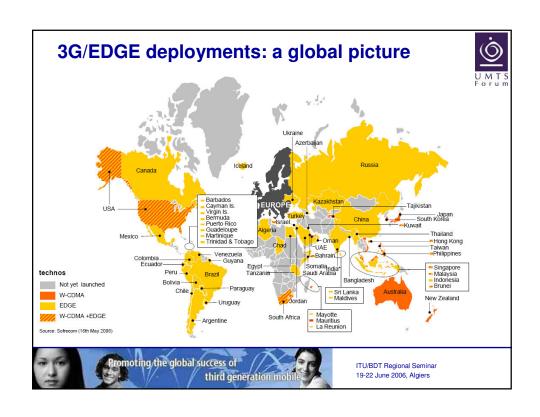


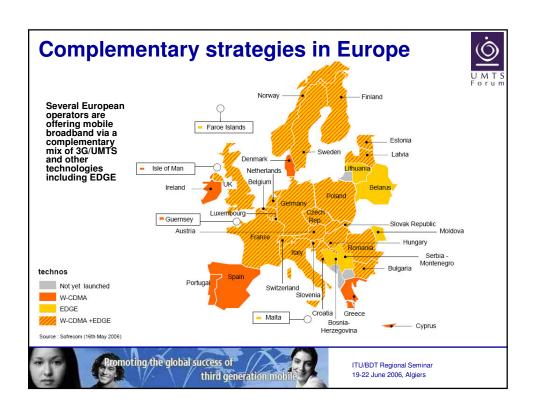




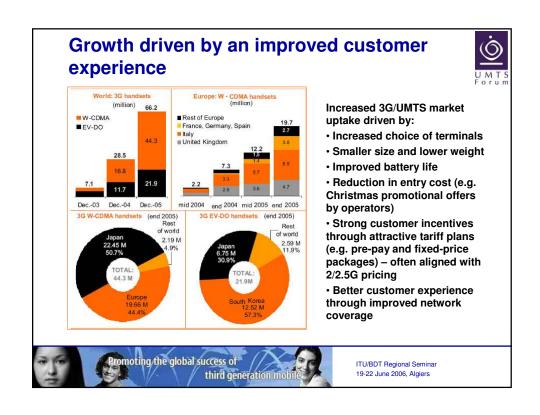












3G/UMTS drives ARPU: the evidence



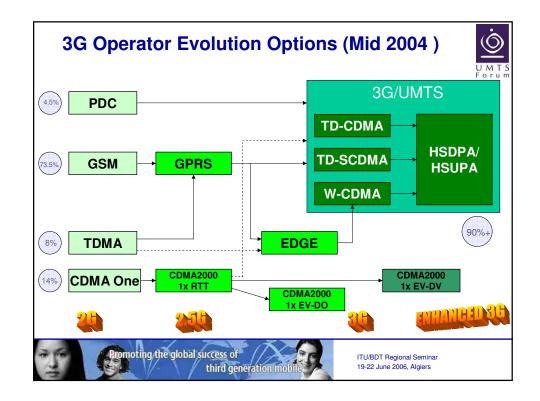
3G customers at NTT DoCoMo in Japan spend €21 each month more than DoCoMo's 2G customers, i.e. an ARPU of €65 for 3G compared with €44 for 2G [September 2005]

Average 3G customers in the UK also spend €21 each month more than 2G customers, i.e. an ARPU of €64 for 3G compared with €43 for 2G [September 2005]

Source: Orange / SOFRECOM / survey by Telephia.







HSDPA (High Speed Downlink Packet Access) The next step in evolution of the 3GPP air interface



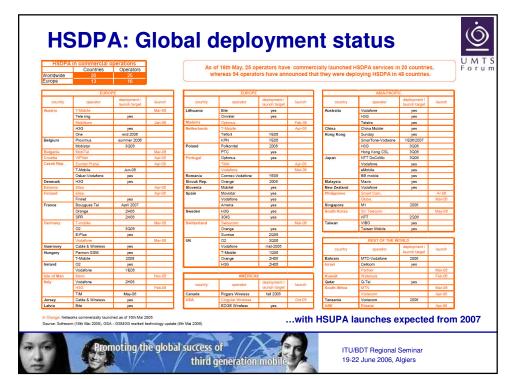
HSDPA = high speed mobile broadband, enabling a wide variety of high bandwidth multimedia services including:

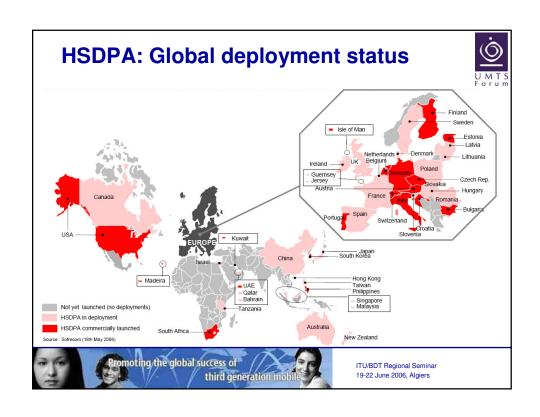
- high quality streaming video,
- fast downloads of high resolution images and large files,
- interactive e-mails & gaming,
- telematics,...

Compared with WCDMA, HSDPA:

- increases throughput (2→14.4 Mbps): total and average per user
- 2. reduces latency
- increases data capacity up to 5x in dense urban environments (micro-cells)









3G operator strategies: case study



ORANGE FRANCE

- Launched business EDGE offer in April 2005 and to consumers 2 months later complementing 3G/UMTS coverage
- Unified "Orange Intense" mobile broadband offering does not differentiate between EDGE and WCDMA technologies
- · Key customer offers during 2005 have included:
 - "Discovery" 50% discount on monthly fee and free TV
 - · Add a second handset for €1 and get 1 free hour of video calls between phones
 - Mobile broadband services included in all tariff plans with video telephony at same rate as voice for set period
 - Christmas €30 rebate on EDGE/3G phones and 50% discount on Orange World multimedia package
 - · Unlimited voice and video calls at any time to three Orange numbers
- By Year End 05 had exceeded 1 million mobile broadband customers, double initial target





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Innovative Services with UMTS



Video telephony - Live TV - Audio/video streaming - Download of multimedia content - Infotainment - Off-line games, on line games - Video messaging via MMS - Live sport Event - Video responder - Presence - Email - Intranet access - web conferencing ...



Infotainment Internet services on your mobile

Pour vivre l'information en direct ! Live TV
54 channels
on your mobile

Marseas 2

Orange World Video
All videos with 1 click

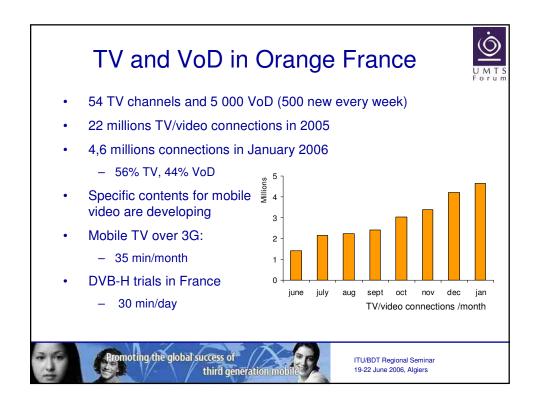
Orange World Music The best songs on your mobile



Orange World Portal: 5 millions of customers each month and 30 millions of connections per month











3G operator strategies: service offerings



MOBILE MUSIC

New music portals and music catalogues extended:

• TIM Italy launched its i.music store and T-Mobile launched 'Musicload' in Germany.

Exclusive content adds value:

- T-Mobile signed 18-month deal and France Telecom Group signed deal with Madonna to exclusively offer their music.
- Three signed deal with EMI Music UK to include exclusive content from Robbie Williams, Kylie Minogue and Coldplay in its 'Video Jukebox' service. 10 million full-length video downloads in 6 months following service launch in 2004.
- Three also announced in June 2005 that 30 million music tracks have been downloaded or streamed on its networks in 9 global markets since service launched.

The phone becomes a music player:

• Phones now integrate music players... internal memory now facilitates adoption of this service









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Examples of innovative service offerings



Eurotel Praha offers Map Search service on its "Eurotel Live" 3G portal.

- 3G customers can search for cities and streets and plan travel itineraries on their mobile device.
- Users can enter a city, street or an address to retrieve a colour map and show the best travel route.
- Shows hotels, hospitals, pharmacies, ATMs and post offices
- Over 14,000 restaurants, historical monuments and other landmarks also included.







Innovative tariff proposals... case study



British operator Three is "paying" its customers for receiving calls and messages, up to €0.07 per minute and €0.03 per SMS.

- Credit gained can be used to buy call minutes and services.
- Customers can only use this credit bonus when they buy a new "WePay" prepay topup, minimum price €15.
- Credit must be used within 30 days of the top-up.







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More innovative tariff proposals...



Clearer, more attractive pricing for 3G services

SFR in France, Wind in Italy and DoCoMo in Japan have now opted not to differentiate between 2G and 3G pricing.

3G videotelephony has been the subject of many price initiatives, such as free calls for one year with TIM or billing at voice prices in France.

Vodafone Italia charges only for the first minute of the call with the "Infinity Video" option.

Vodafone Portugal and its Best500 plan including 500 minutes of voice and videotelephony to be shared between four numbers.

Source: Orange / SOFRECOM



Keys for 3G operator success



Market uptake of mobile data services depends on these key success factors:

- Research into customer needs and availability of high quality, tailored local content and applications
- Strong platform integration (networks and terminals interoperability)
- Effective content integration
- Extensive, optimized network coverage (full is always preferable to partial...) with efficient handover from 3G>2G
- 'Network externality' effect (utility and usage grows by a square factor in proportion to the number of users)
- Scale of addressable market (bringing proportional economies of scale)
- Availability of economic handsets tailored to market needs

South Korea (more than 50% of users subscribe to mobile data).

- Create strong revenue models that drive demand and encourage usage
- Easy to understand customer tariffs

- Strong marketing support

Source: various inc. Sina Mobile

January 2006

Based on these criteria, the leading mobile data market in the world is Japan (more than 90% of users subscribe to mobile data services), while the second is

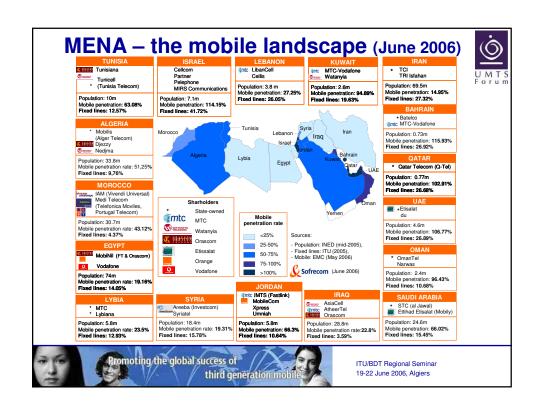


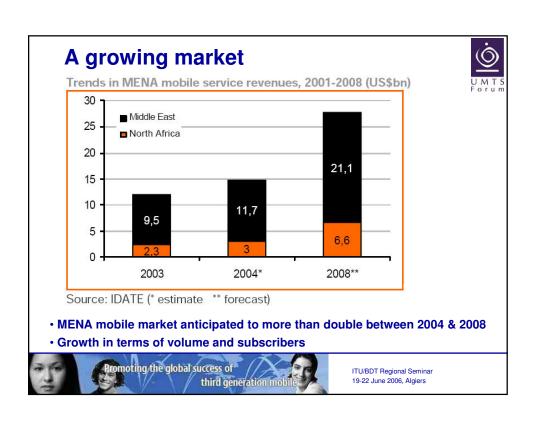
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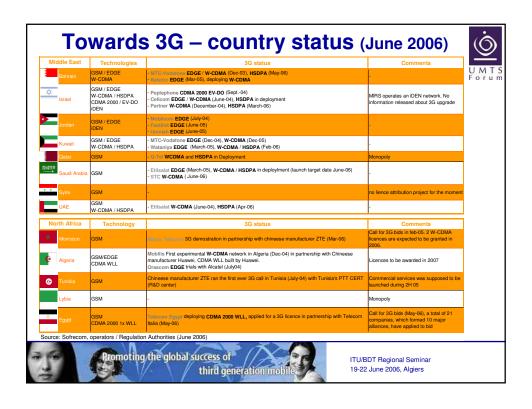


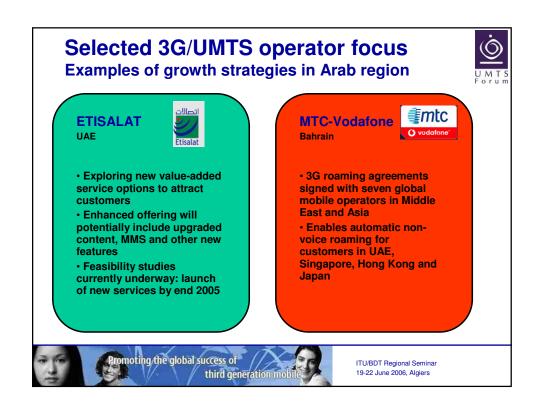
3G/UMTS: an evolutionary path to Next Generation Networks – perspectives for the Arab Region











The Arab Region – deploying 3G/UMTS

- The Arab Region has already commercially entered the mobile broadband world with EDGE (Algeria, Bahrain, Brunei, Egypt, Jordan, Kuwait, Oman, Saudi Arabia, UAE) and 3G/WCDMA (Bahrain, Brunei, Kuwait, UAE) 3G licensing under process in Morocco, Qatar, Tunisia... HSDPA already launched in Kuwait and UAE!
- With the timely licensing and introduction of 3G/UMTS, the region will have the opportunity to maintain alignment with the GSM/UMTS world and enjoy the benefits of:
 - · greater economies of scale
 - · simplified international roaming
 - IPR export opportunities for services and applications
 - · wider choice of cost-effective terminals

Arab region's operators, end users and equipment manufacturers will all benefit from 3G/UMTS



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For more information www.umts-forum.org

