INTUG

Global System for Mobile a European success?

Ewan Sutherland

Executive Director

International Telecommunications
Users Group

ewan@intug.net



INTUG content



- introduction
- Groupe Speciale Mobile
- market failures
- the transition to IMT-2000
- an ecosystem
- what is a success or failure?
- conclusions

INTUG Groupe Speciale Mobile

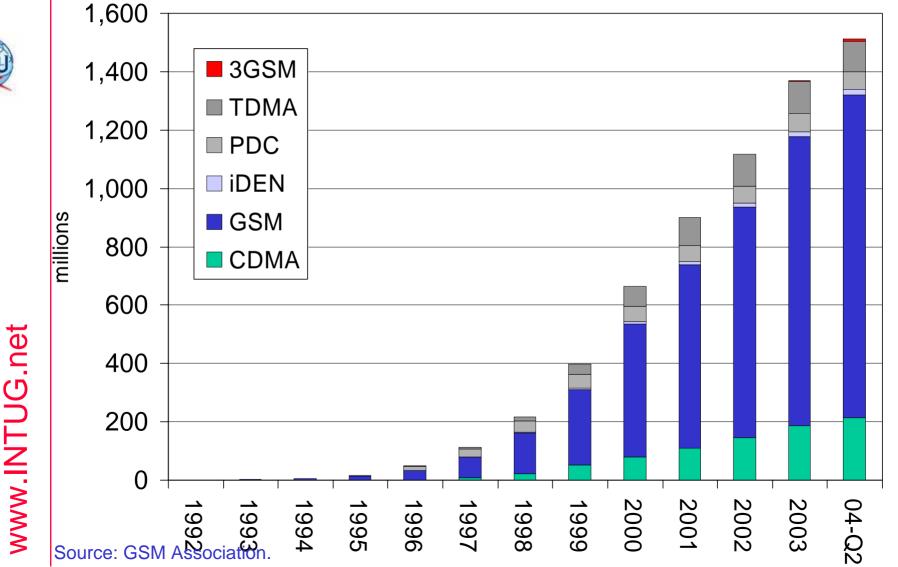


- many years in the making
- development of technical standards and Memorandum of Understanding (MoU)
- enabled:
 - exports beyond Europe
 - economies of scale in manufacturing
 - international roaming
- strong support of European Commission
- the legend of its own success



27.i.2004

ITU SPU, Geneva



J SPU, Geneva

INTUG the "success" of GSM



- customer base built up over years
- vastly more than expected
- significant share of increased consumer spending on communications
- pre-paid cards widened the market
- text messaging popular with youth
- increased share price (spin off from fixed)
- benefits for value chain
 - manufacturers
 - operators
 - retailers

INTUG handsets



- highly personal device
- strong growth and competitive market
- European operators:
 - cross-subsidies from other revenues
 - weaker brands than handsets with belated response of own/dual label devices
- Japan-Korea operators:
 - close coupling with manufacturers
 - essential for success of value-added services and Internet access

INTUG n operators



- two 900 MHz:
 - fixed incumbent encouraged
- two 1800 MHz:
 - only one in some countries
 - some opportunists entered, then sold out
- n+1 for UMTS:
 - licences still left unassigned
 - some licences returned

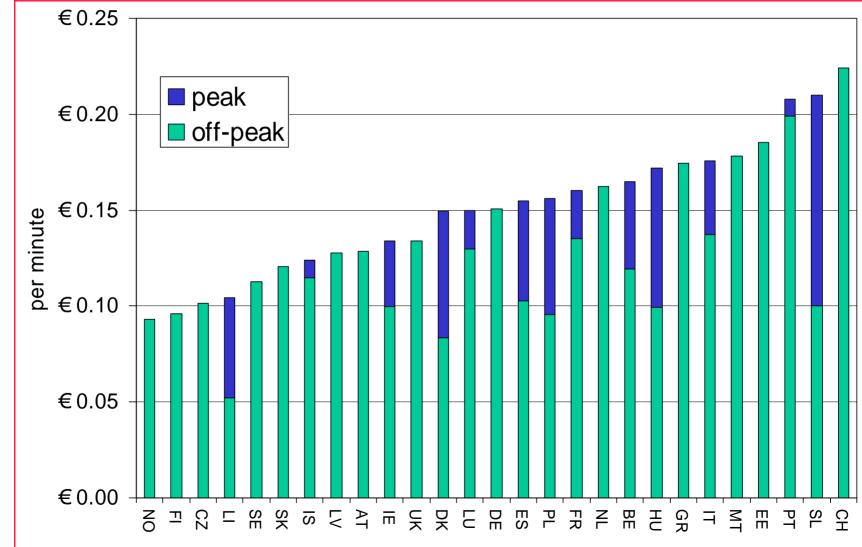
INTUG market failures



- mobile termination markets:
 - excessive pricing
 - discrimination in favour of on-net calls
- international mobile roaming markets:
 - collusion
 - excessive pricing (voice, SMS and data)
- SMS markets:
 - excessive pricing
 - discriminatory allocation of golden numbers
- call origination and access:
 - number portability
 - blocking or charging for 800 and +800 calls
 - Irish joint dominance case

INTUG mobile termination rates

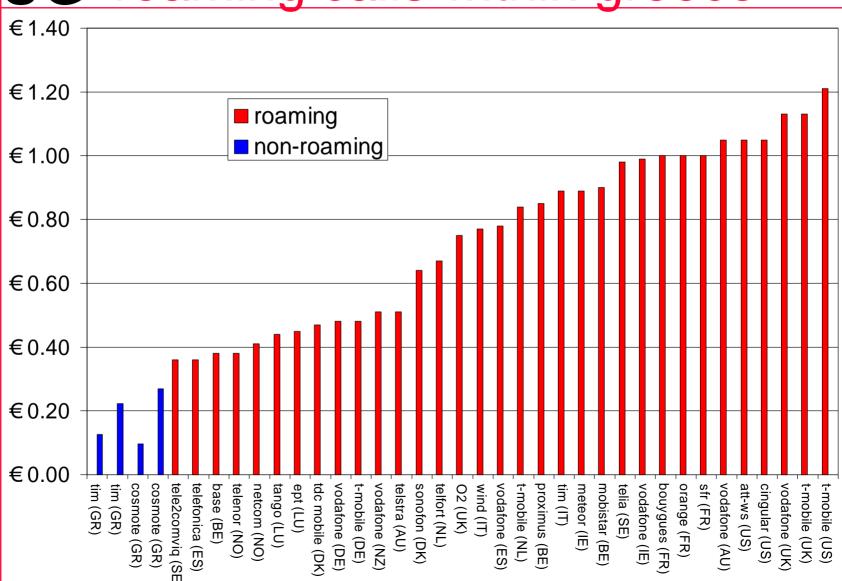




Source: ERG, July 2004.



ITU SPU, Geneva www.INTUG.net



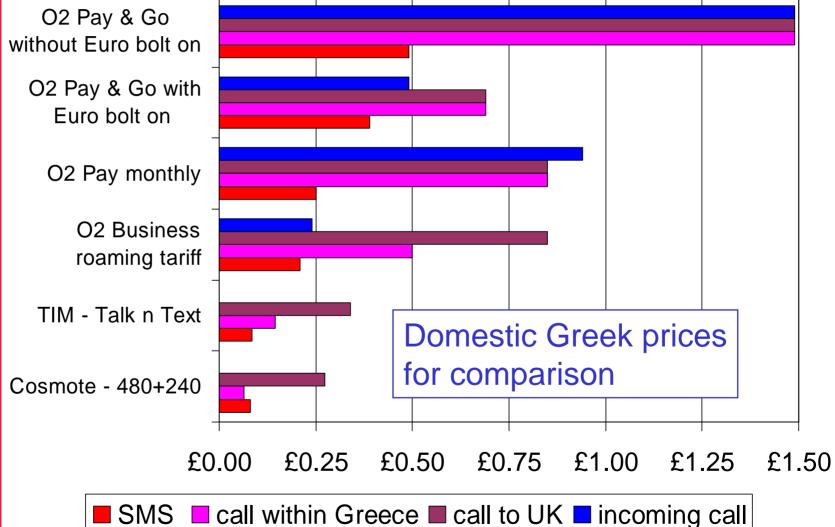




27.i.2004

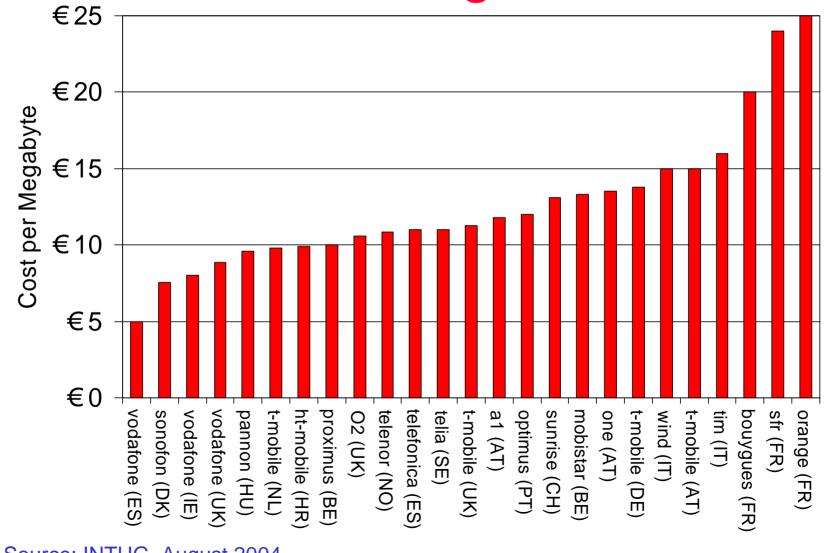
U SPU, Geneva

G.net



INTUG GPRS roaming in Greece

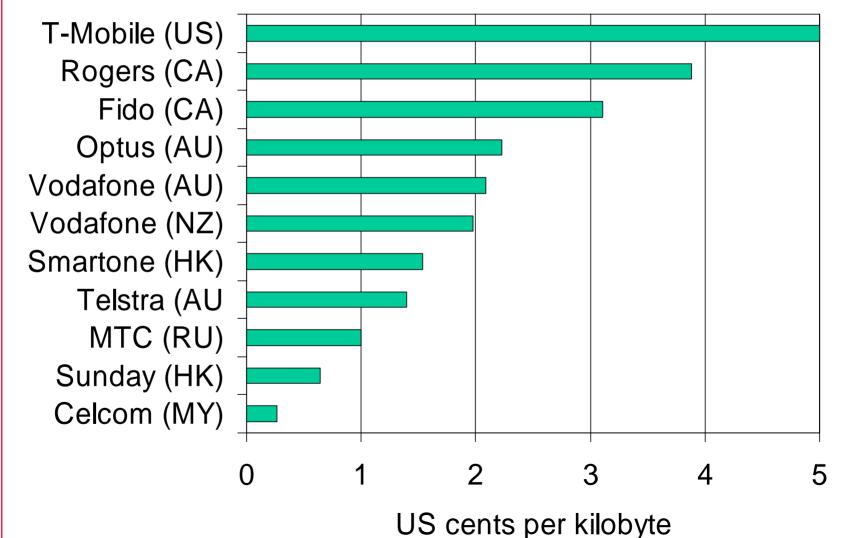




Source: INTUG, August 2004

INTUG roaming in Singapore





Source: INTUG, September 2004

INTUG operator resistance to



- regulatory interventions
- Mobile Virtual Network Operators (MVNOs)
- alternative technologies:
 - Wireless Local Loop (WLL)
 - cdma450
 - WiMAX

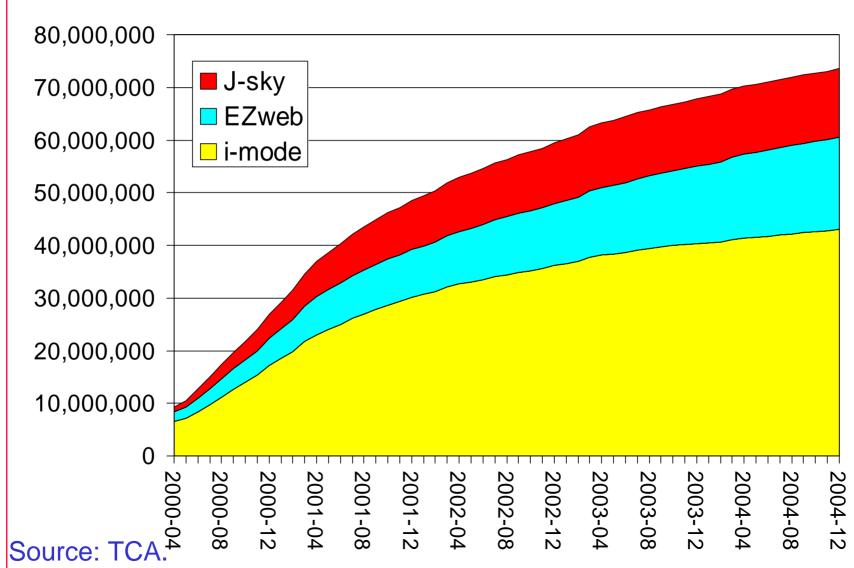
INTUG growth is in Asia



- developed country markets saturated:
 - replacement handsets
 - operator churn
- developing and emerging markets:
 - China 5 millions a month
 - India 2 millions a month
- competition with:
 - WLL and limited mobility
 - multi-mode handsets

INTUG Japanese mobile Internet





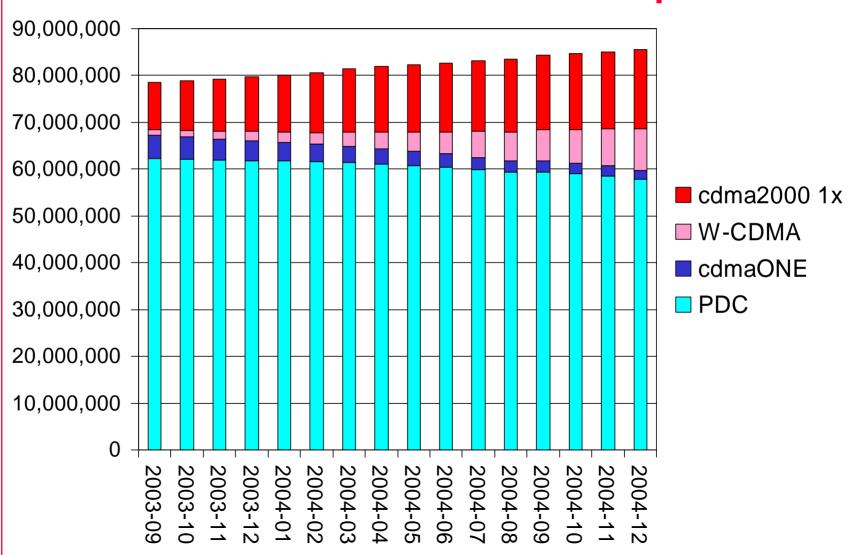
INTUG europe mobile Internet



- millions of GPRS handsets
- but no evidence of operator revenues
- money comes from:
 - SMS
 - ring tones
- operators have failed:
 - to move customers to new services
 - to engage service providers

INTUG transition to 3G in Japan





INTUG transition to IMT-2000



- largely irrelevant for customers:
 - cheaper voice?
 - expensive new handset?
 - but handset choice depends on features
 (MP3, camera, PDA function, etc)
- real transition is to new services:
 - GPRS or cdma2000 is adequate for users
- vital for operators and manufacturers:
 - CDMA upgrade seems to work
 - GSM to UMTS route still not proven

INTUG content delivery alternatives



- satellite broadcasting:
 - Digital Multimedia Broadcasting (DMB)
- terrestrial transmissions:
 - Digital Audio Broadcasting (DAB)
 - Digital Video Broadcasting (DVB)
- terrestrial broadband plus:
 - Wi-Fi hot spots
 - FWA, Wi-Max, Flash-OFMD, etc.

e.g., MP3 ringtones direct from broadband

INTUG ubiquitous networks



- shared vision:
 - Japan and South Korea
 - government and industry
 - fits with *Keiretsu/Chaebol* model
- built on today's reality:
 - 10-100 Mbps to the home
 - 0.5 to 2 Mbps to the handset
 - Wi-Fi at home and in public places
 - DMB
 - wireless broadband (WiBRO)

INTUG an ecosystem



- term borrowed from biology, but not well understood in mobile business
- 3GSM is only one part of a bigger system
- it is not immune from VoIP:
 - Free.fr EUR 23.90 per month for ADSL and fixed national calls
- can content providers make better arrangements through other channels?
- complex value chain

Basic Customer\ Value-Networks Transport Access Applica-Care / added Content Devices Manage-Billing Services tions ment

INTUG beyond 3G



- seemingly inevitable hype about:
 - High Speed Downlink Packet Access (HSDPA)
 - NGN, 4G, 5G, 6G, etc
 - convergence
- putative policy framework:
 - ensuring competition
 - assigning new spectrum
 - business models
 - moving customers (without pain)

INTUG what is a failure?



- enduring abuses of market power
- wealthy operators exercising influence at:
 - political level
 - regulatory level
- incentives distorted from market demand
- failure to contribute to economic growth:
 - directly in manufacturing and services
 - downstream in the rest of the economy
- loss of social benefits
- loss of national "leadership"

INTUG what is a success?



- telecommunications sector:
 - increased competition
 - productivity gains
 - new revenue streams
- downstream economic benefits:
 - productivity benefits in business
 - new services and markets
- upstream economic benefits:
 - design and manufacturing jobs
 - value-added services and content jobs
- social benefits:
 - affordability

INTUG conclusions



- GSM crowd became overconfident
- the European model is deeply flawed:
 - serious and enduring market failures
 - power confined to a few
 - long-term planning and standardisation
 - despite the absence of robust business models
- 3GSM/UMTS plan is failing:
 - slow rollout
 - low revenues
 - little competition
 - increasing threat from other networks
 - still selling technologies

TU SPU, Geneva

INTUG thank you



Ewan Sutherland

International Telecommunications Users Group

Reyerslaan 80

B-1030 Brussels

Belgium

+32.2.706.8255

ewan at intug.net

http://www.intug.net/ewan.html