

**INTUG**

**INTUG mobile 9 November 2005**

**[www.INTUG.net](http://www.INTUG.net)**

# mobility

## business user issues

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# INTUG contents

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- INTUG
- market abuses
- market regulation
- market failures
- the value of mobility
- conclusions and issues

# INTUG what is INTUG?

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[www.INTUG.net](http://www.INTUG.net)

- members:
  - national associations
  - corporations
  - individuals
- activities:
  - ITU and WTO
  - OECD
  - APEC TEL, CITEL and EU

# INTUG our aims

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- real and effective competition
- genuine choice for users
- lower prices
- higher quality
- more innovative services
- constructive co-operation with:
  - international bodies
  - governments
  - regulators

# INTUG market abuses & dominance

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- number portability
- call origination
- call termination
- text messaging (SMS)
- international mobile roaming
- wholesale access
- national roaming

# INTUG mobile number portability

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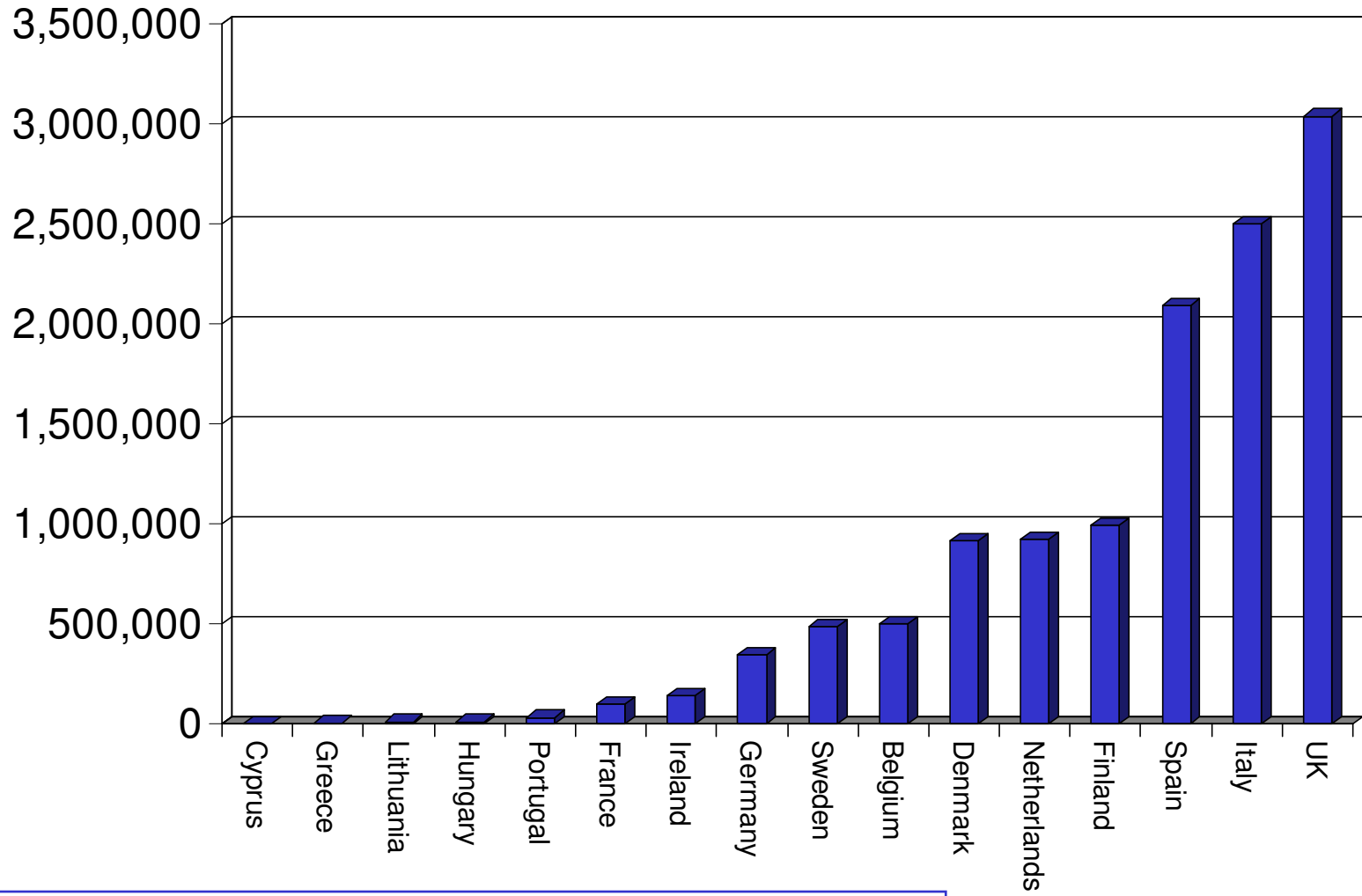
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- arguments largely won for MNP
- successfully introduced in:
  - Republic of Korea
  - United States of America
  - Taiwan
  - Belgium
- will be introduced in:
  - Japan (2006)
  - Canada (2007)
- implementation is often slow and overly bureaucratic

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## cumulative total of mobile numbers ported to August 2004

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Source: EC 10th Implementation Report, Vol. 2, Fig. 59.

# INTUG call origination

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- more expensive than fixed lines
- not competitive for freephone:
  - MNOs want revenue “sharing”
  - splits the numbers for marketing
- joint dominance for calls in many markets with few operators:
  - Ireland
  - France
  - South Africa
  - others?



# INTUG France

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- two dominant players
- followed Ireland in analysis of mobile call origination market
- operators realised regulation would work, so they made MVNO deals:
  - NRJ, a pop music FM radio station
  - Breizh Mobile in Bretagne
  - Coriolis Telecom for business users
- competition authority is investigating collusion from 1997 to 2003

<http://www.arcep.fr/communiqués/communiqués/2005/index-c05-25.htm>

# INTUG call termination

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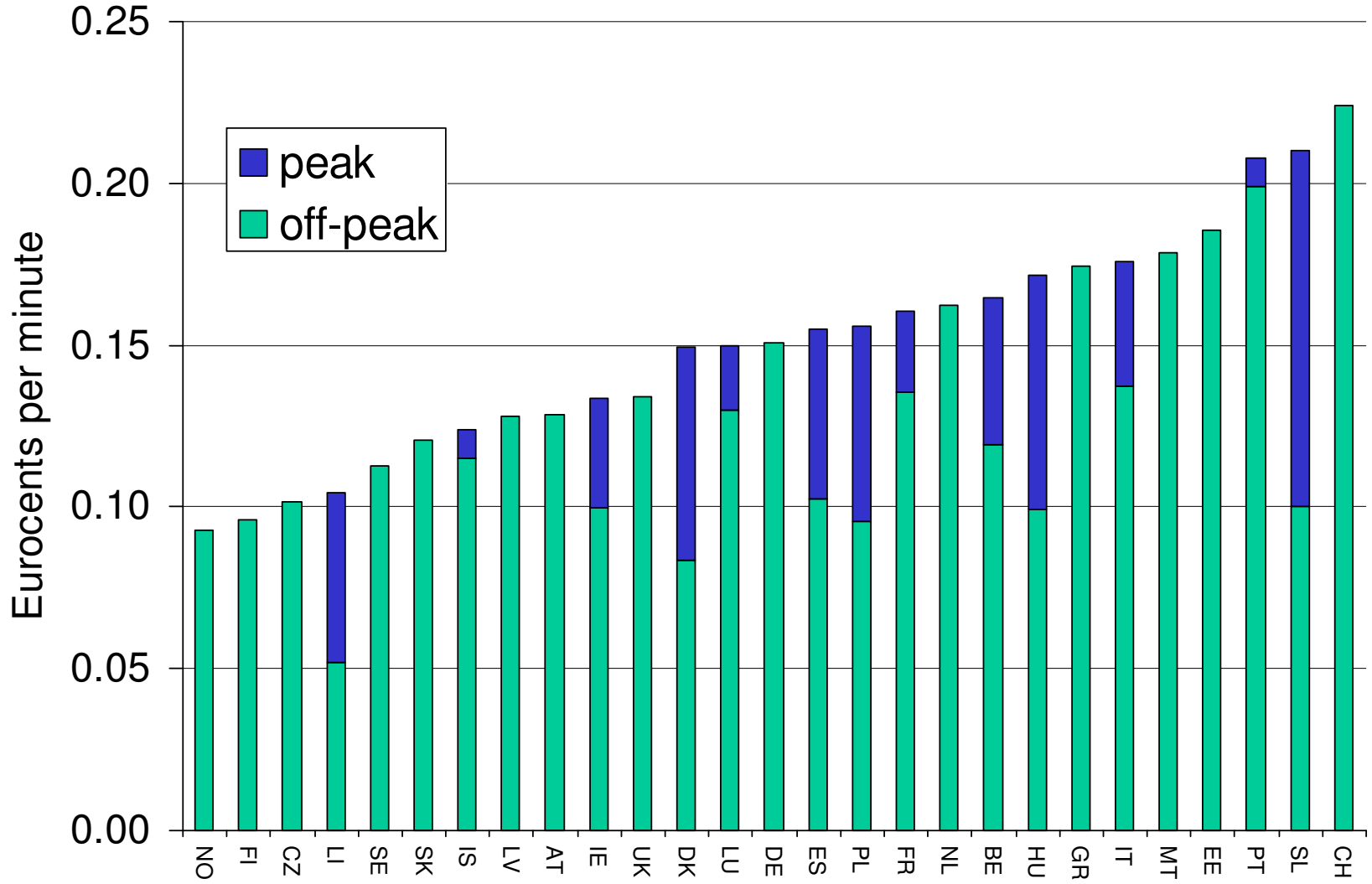
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- excessive pricing
- dominance by one operator on termination of calls to its network
- regulation is the only remedy
- resisted and delayed by operators
- switching to receiving party pays is not practicable
- a major barrier to convergence

Achieving cost orientation is taking far too long!

# INTUG termination rates - EU/EEA

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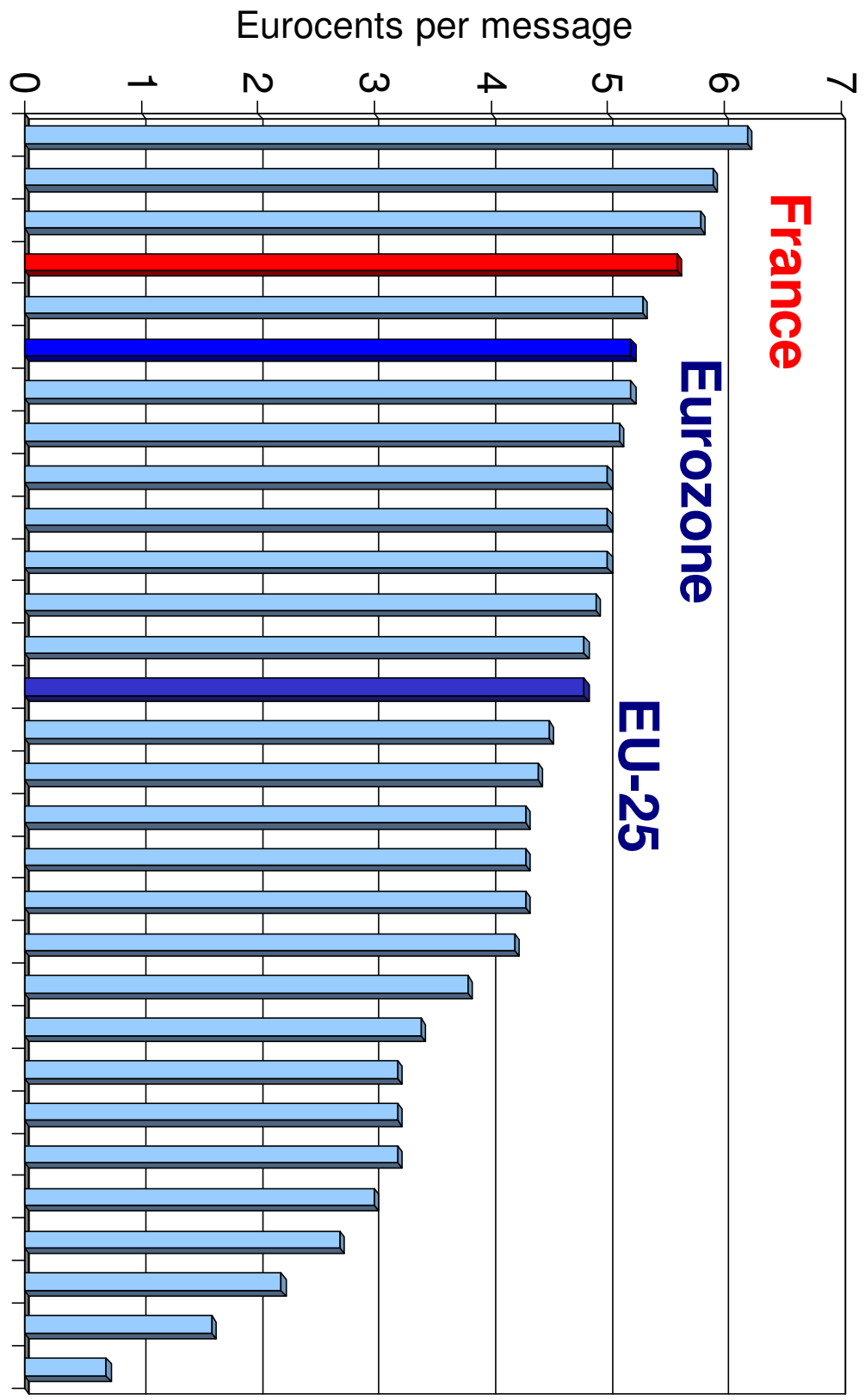
# INTUG SMS

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- carried at low priority in the signalling channel
- problems arise because operators:
  - refuse to interconnect
  - charge excessive prices
- enterprises need SLAs in terms of:
  - guaranteed delivery
  - maximum delay
- French NRA - ARCEP:
  - currently consulting
  - plans to set price ceiling of € 0.025  
(against €0.053 at present)

<http://www.arcep.fr/communiqués/communiqués/2005/index-c05-55.htm>

# INTUG SMS price comparisons



# INTUG international mobile roaming

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- excessive pricing
- unresolved for many years
- extension to:
  - pre-paid customers
  - mobile data access
  - digital broadcasting
- European Commission:
  - sector inquiry
    - cases against operators in UK and Germany
  - designation of the wholesale market
    - consultation by Ficora
  - publication of prices on europa web site

[http://europa.eu.int/information\\_society/roaming](http://europa.eu.int/information_society/roaming)

# INTUG necessary actions for EC

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- revoke the letters of comfort to GSMA
- use merger reviews to eliminate abuses that allow excessive prices
- review the apparent failure of the designation of the wholesale market for roaming

[http://www.intug.net/submissions/EC\\_comp\\_roaming.html](http://www.intug.net/submissions/EC_comp_roaming.html)

# INTUG wholesale access

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- mobile operators refuse to see the benefits for themselves
- they resist MVNO deals
- they want all the revenues
- they force service providers to find other routes to customers:
  - Internet
  - wi-fi hotspots
  - digital broadcasting



# INTUG national roaming

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- a remedy to poor network coverage in rural and remote areas
- essential for access in countries like:
  - Australia
  - Colombia
  - Sweden
- resisted by operators

# INTUG fragmented mobile market(s)

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- by geography :
  - different offerings in different continents
  - different patterns of cross-border travel
- by technology:
  - 3GSM *versus* cdma
  - cellular versus hot spot (Wi-Fi and WiMAX)
- by economics:
  - origination
  - termination
  - roaming

# INTUG failures in europe

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- concentration on consumers rather than businesses
- tried and failed to sell technologies:
  - HSCSD and WAP
  - GPRS and EDGE
- did not build the network capacity to support GPRS data access
- already hype for HSDPA and HSUPA
- whatever happened to services?
  - the very modest success of I-mode in Europe compared with Japan

# INTUG 2.5G Internet access

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- a firewalled garden with NAT to the Internet
- its own gTLD .gprs
- grossly overpriced, with glacially slow price reductions
- services were/are uncertain to work
- most GPRS handsets never use the service
- very little revenue for operators
- independent providers not offering services
- where is EDGE? (few countries, few users)
- waiting for 3G/UMTS then 3.5G/HSDPA

# INTUG 2.5G cdma succeeded

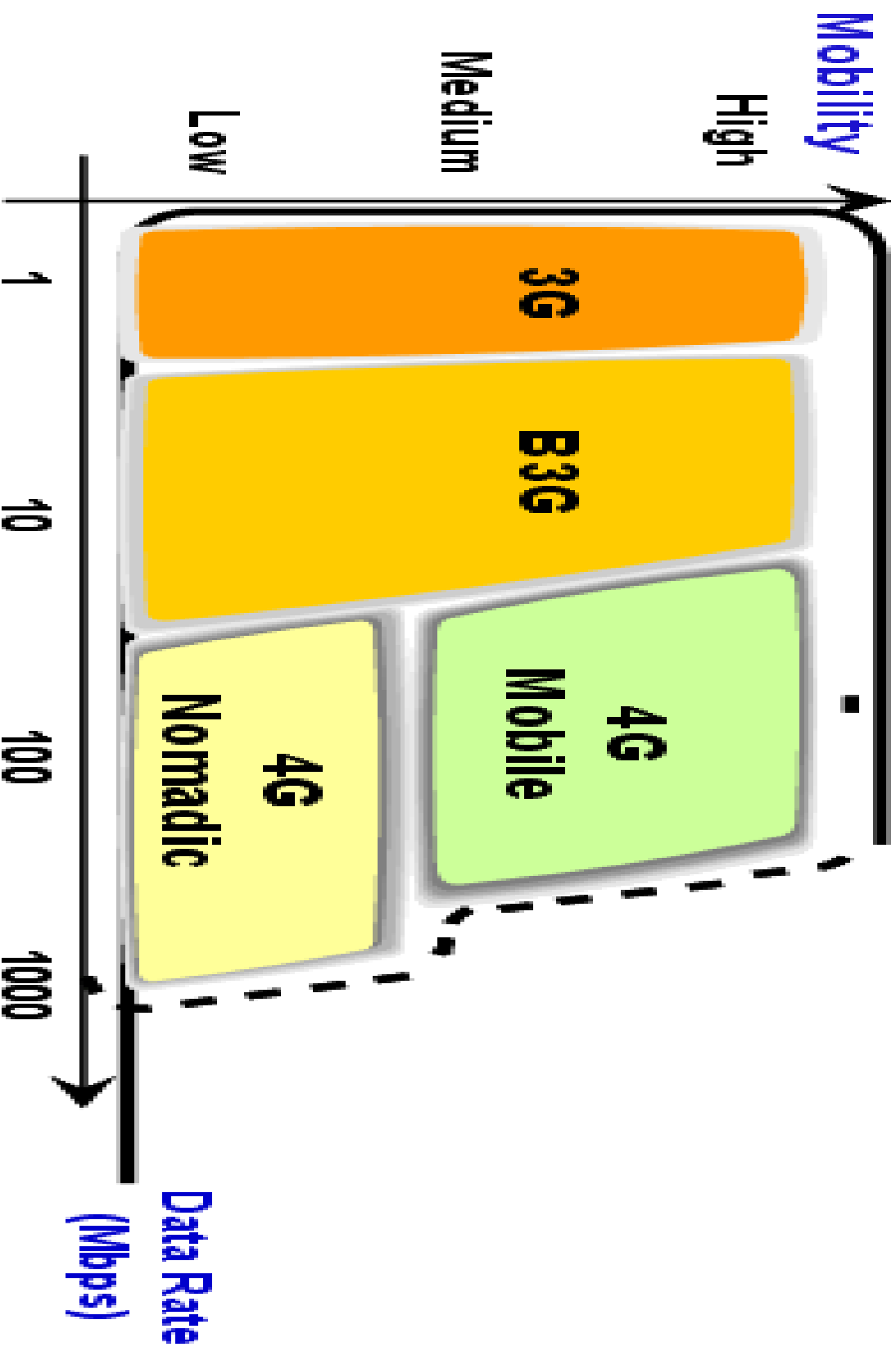
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- easy upgrade path:
  - cdma2000 1x
  - cdma2000 1x EV-DO
  - cdma2000 1x EV-DV
- flat rate prices (e.g., US\$ 70 per month)
- some Service Level Agreements (SLAs)
- extensively deployed on cdma networks, including international roaming
- successfully competing with GSM:
  - USA and New Zealand

# INTUG Samsung view

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# INTUG “horses for courses”

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- fixed broadband  
(with wireless hotspots at the edges)
- wireless hotspots  
(802.11 b, g, etc.)
- fixed wireless access  
(WLL, WiBro, WiMAX, etc.)
- digital broadcast  
(DAB, DMB, DVB)
- cellular  
(GSM, W-CDMA, cdma2000, etc.)
- stored data  
(MP3, DVD, etc.)

# INTUG 3G

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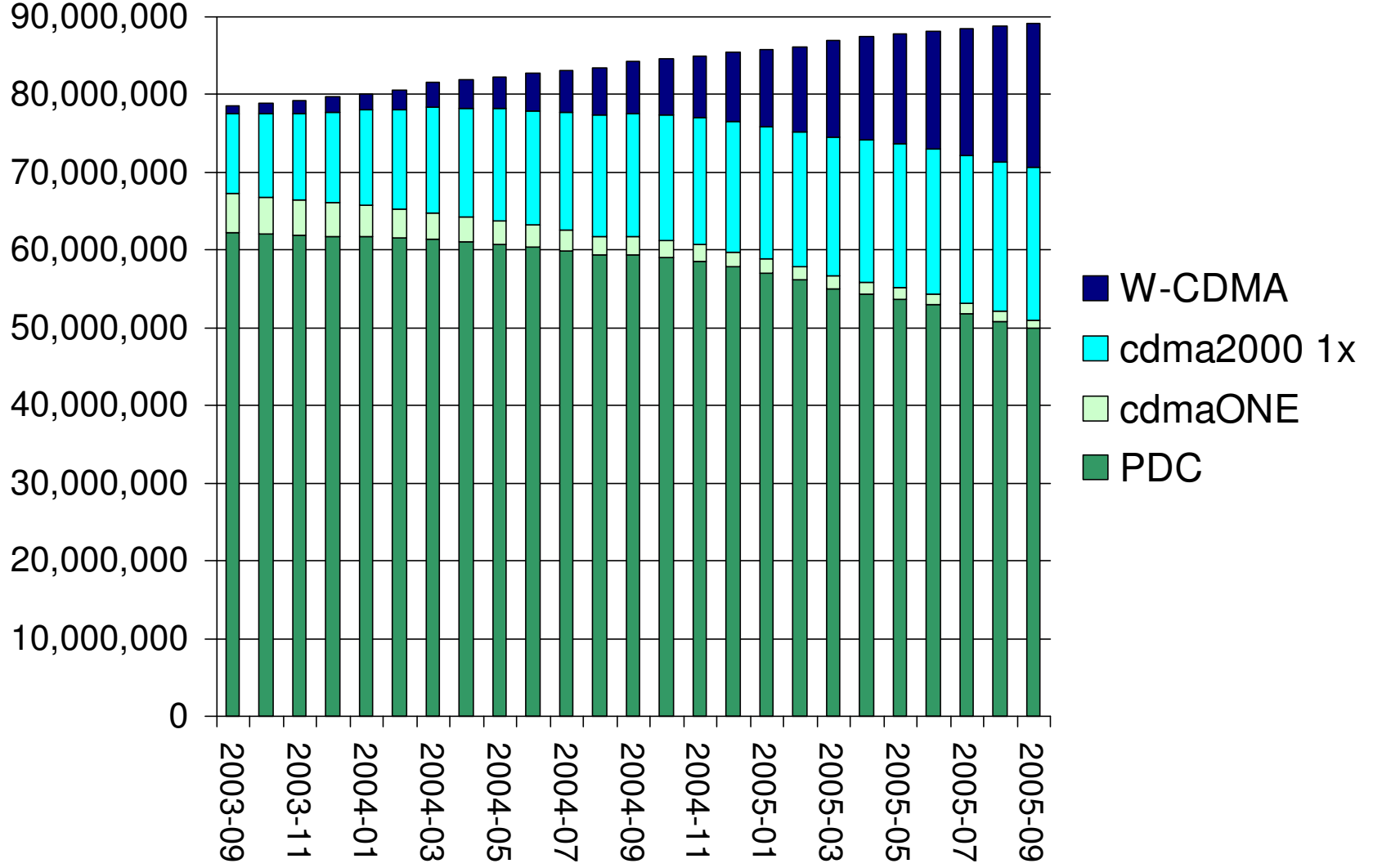
[www.INTUG.net](http://www.INTUG.net)

- no current business case for adoption of 3G:
  - no productivity gains
  - no returns on investment
- immature service:
  - patchy coverage (in buildings and suburban)
  - uncertain data speeds
- outside Japan and South Korea, still in trials
- waiting for something faster and more mature



# INTUG 3G in Japan (users)

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# INTUG Voice over IP

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- cheap flat rate pricing models challenges pre-paid model for consumers
- secondary numbers at distant locations
- nomadic access over:
  - fixed broadband
  - Wi-Fi and (soon) WiMAX

Vodafone maintains the technology is three years away from their networks.

# INTUG suppliers to business

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- too fragmented geographically
- too complex tariffs
- too expensive
- too obviously uncaring
- too technologically focused, yet also too risky

# INTUG what happened to FMC?

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- Fixed Mobile Convergence (FMC) has been promised for years
- MNOs try to get all the traffic on the mobile network
- fixed network operators have little or no access to cellular networks
- financial markets see money in winners, not in convergence
- enterprises do not see the ROI

# INTUG what is the business value of?

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- wireless
- mobile
- cellular
- broadcast
- nomadicity
- ubiquity

# INTUG conclusions

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- confusion about the value to users of cellular versus nomadic services
- one network will not suffice:
  - cellular cannot match fixed broadband
  - Wi-Fi is well established
  - WiMAX looks promising
- abuses and failures take forever to resolve
- need much more competition, especially market entry

# INTUG issues

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- in a consumer-focused market what does the business user do?
- can third parties get wholesale wireless services in order to tailor business services?
- how should businesses communicate with their consumers?
  - cheaply
  - reliably

# INTUG thank you

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