



ITU Internet Report 2002

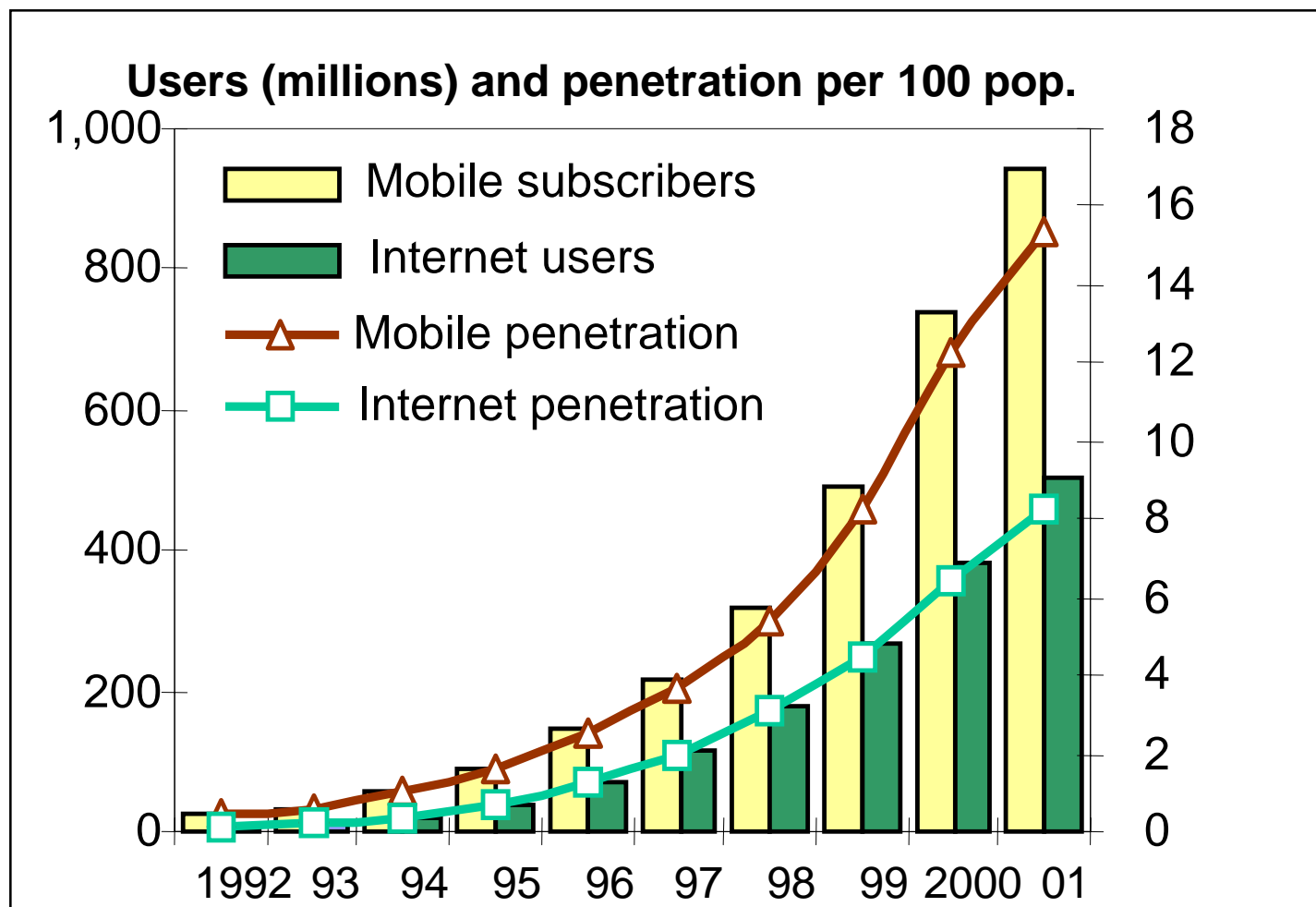
INTERNET FOR A MOBILE GENERATION



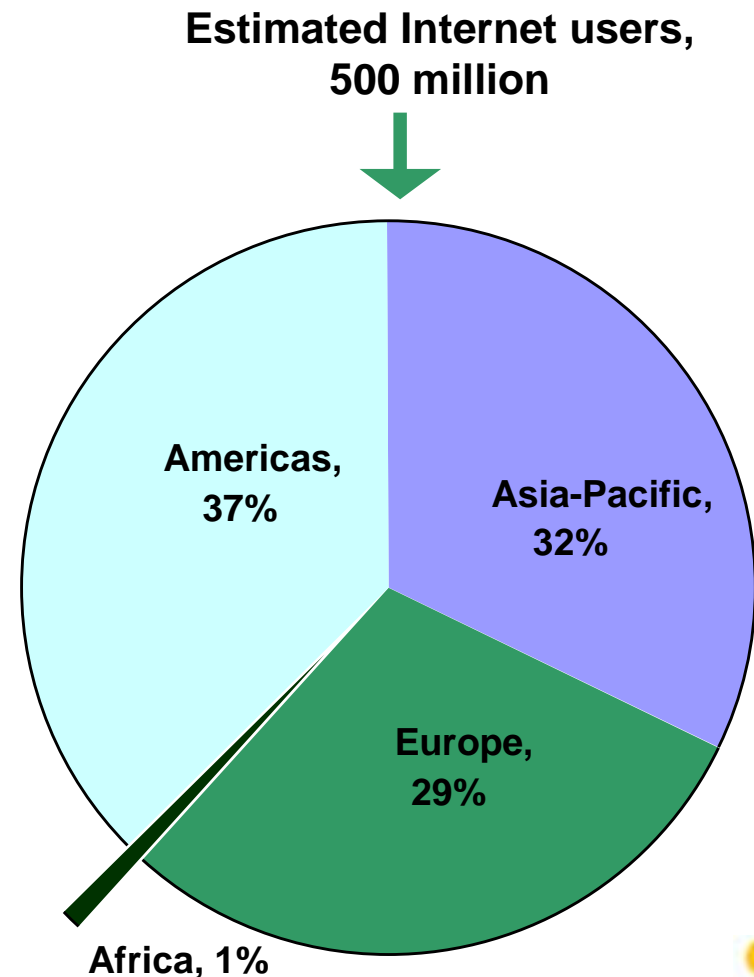
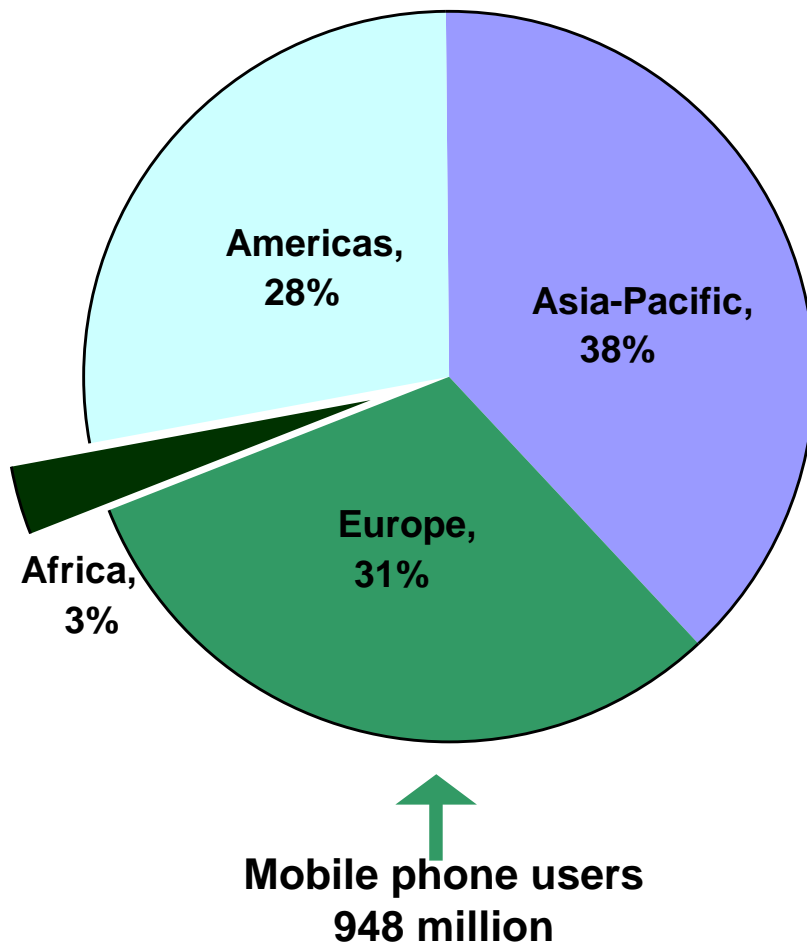
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Mobile and Internet: Identical twins born two years apart?

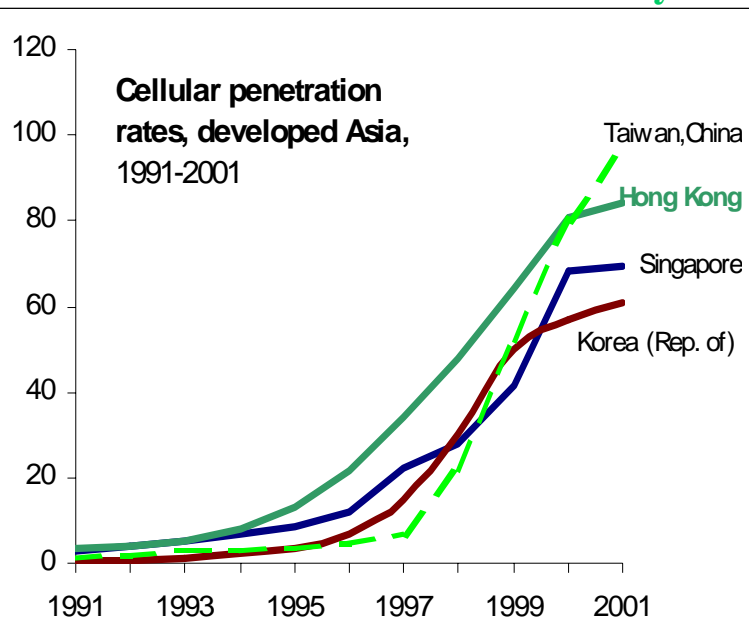


Distribution of mobile and Internet users by region, 2001



Upwardly mobile in Asia

Asian leaders in mobile teledensity



Source: ITU World Telecommunications Indicators Database

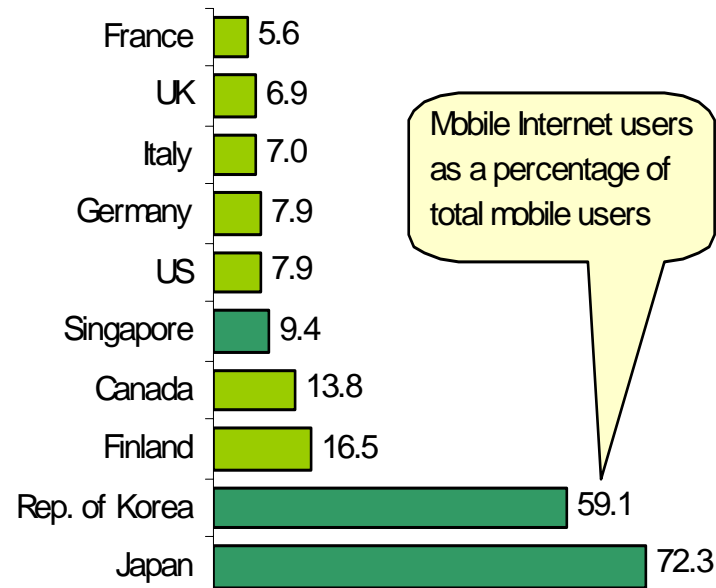


e.g. Japan:
3G FOMA phones
with i-mode
(NTT DoCoMo)



Asian leaders in mobile Internet penetration

Mobile Internet penetration, 2001



Source: MPHPT (Japan)

What is the “Mobile Internet”?

- It is a combination of:
 - mobile (wireless) technologies
 - and information and data communications services
 - ...with, eventually, the flexibility of IP networks?
- It implies a convergence of:
 - terminals
 - networks
 - services and applications
 - corporate structures

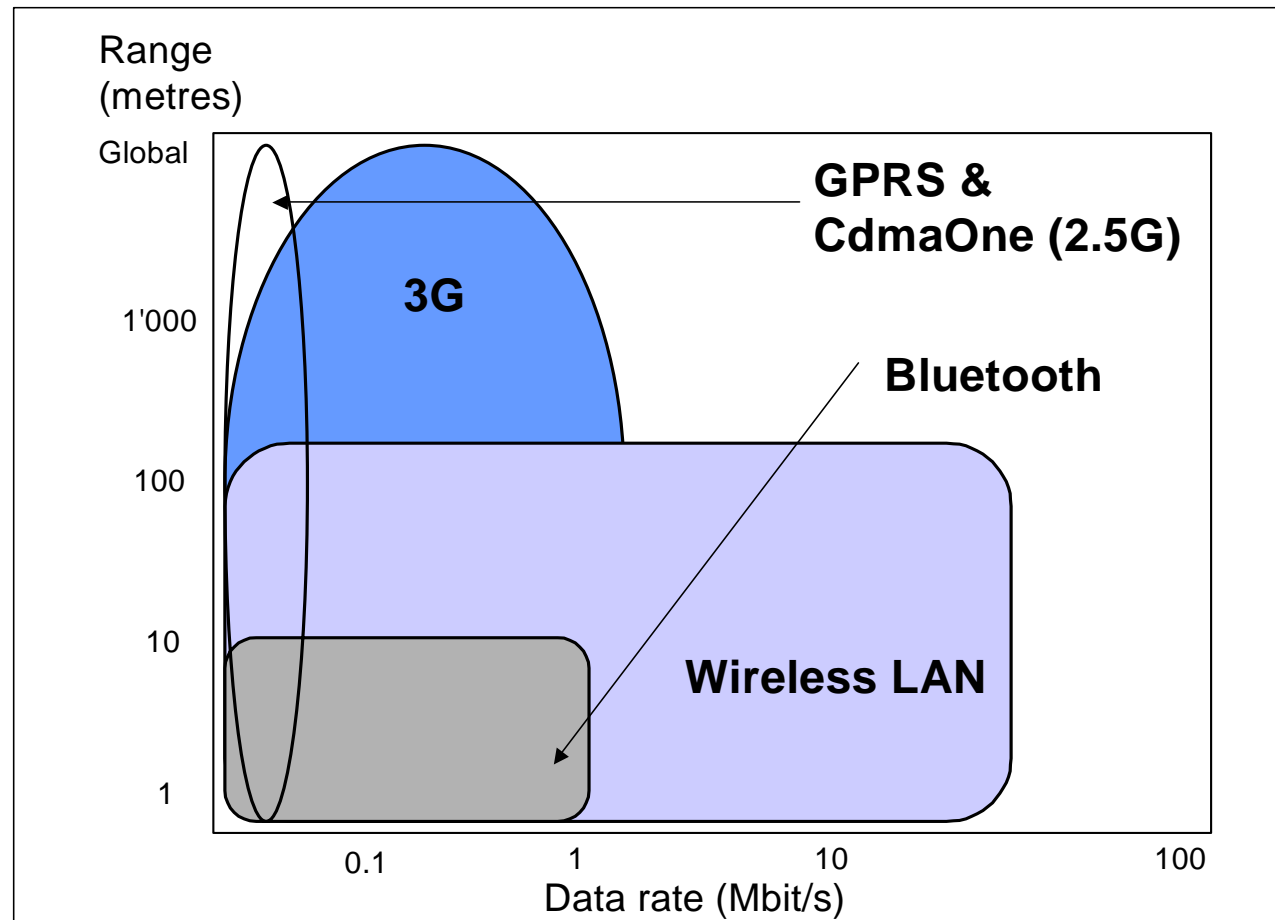


Mobile Internet – enabling technologies and applications

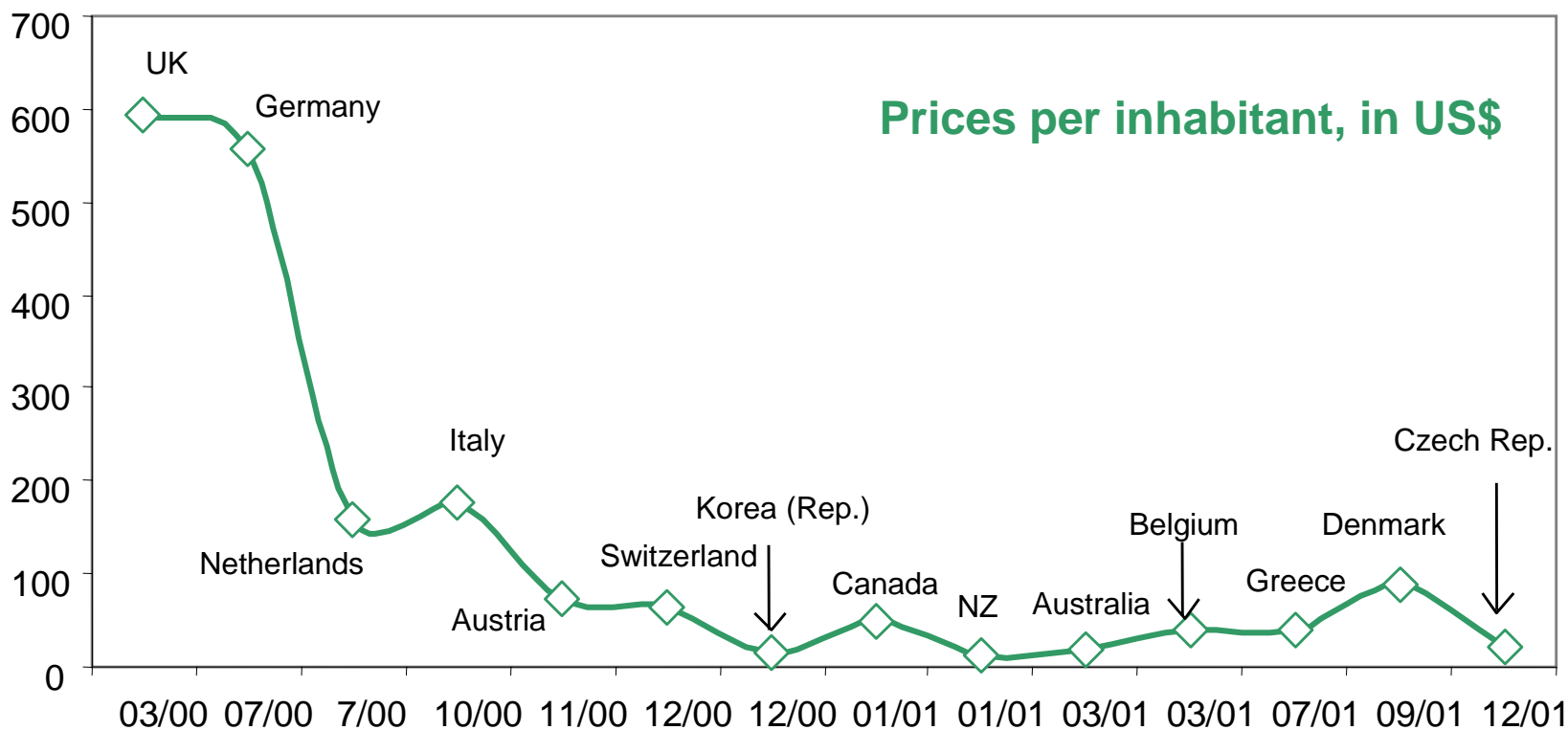
- Network evolution: from 2G to 3G –higher speeds, increased bandwidth efficiency
- “Alternative networks”: e.g wireless LANs – 802.11 series
- Mobile User interface: i-mode, WAP
- Messaging (SMS, EMS, MMS)
- Evolution of digital content, e.g. location-based services (LBS)
- Growing importance of security (WEP, WPKI)



High-speed 3G is only *part* of the overall picture



The 3G rollercoaster



Note: Excludes licences awarded via "beauty contests"

Source: ITU

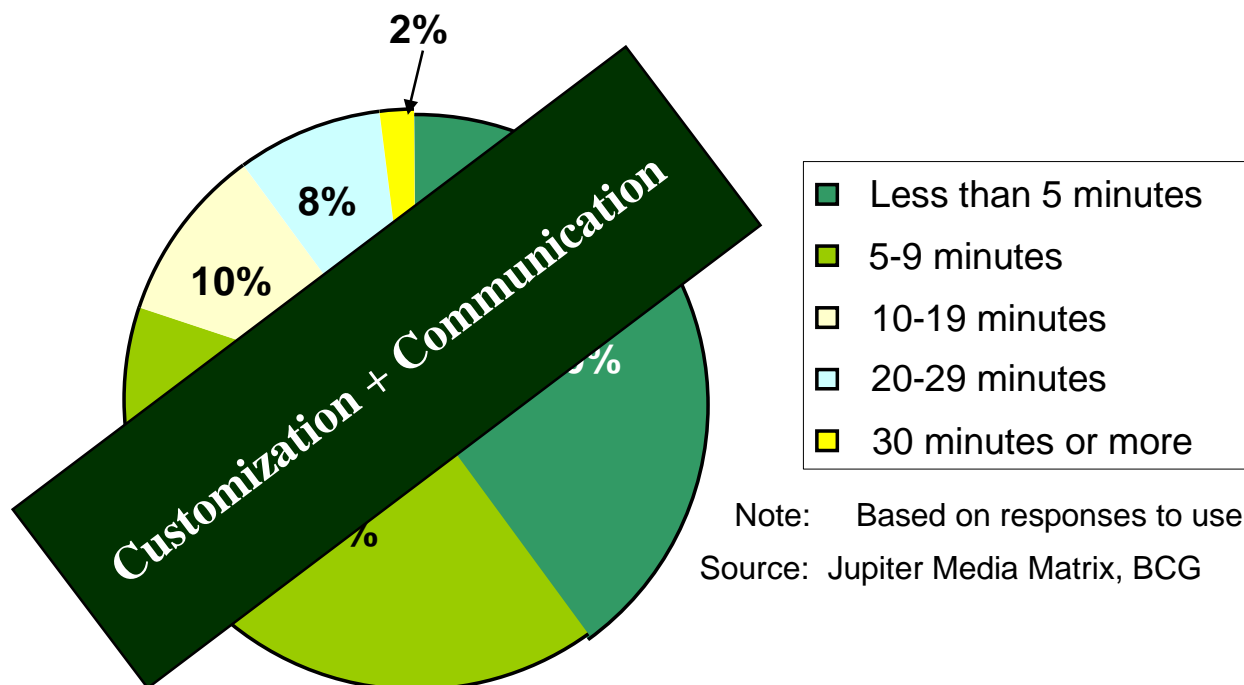
Market Trends

- Where demand has been greatest
 - The ‘first-movers’: HK, Japan and Korea
- Evolution of corporate strategies
- Factors hindering market development
 - Low availability of adequate handsets
 - Plethora of standards/formats
 - Lack of evolved billing models
- The economics of success
 - Avoiding pure tech-push plays
 - Partnership and collaboration
 - Encourage revenue-sharing & transparent tariffs

What of digital content?

- User sessions tend to be short (unlike the “browsing” behaviour of the fixed-line Internet)
- Thus, “killer app” cannot be pure content

Average length of mobile data sessions, 2001



Towards a mobile information society:

“Pardon me, ma’am, but is that your tooth ringing?”

- The advent of “pervasive” miniaturized mobile devices will transform our lifestyles
 - Can you swallow a mobile phone?
- Implications of location-based services (LBS)
 - Can you easily be found in an emergency (e911)?
 - Can wireless implants track your every move?
- Consumer protection, e.g. health, SPAM,
 - How to re-assure the end-user while fostering development?

Highlights of ITU Report “Internet for a Mobile Generation”

- 180 pages of information and analysis
- Table of contents includes: technologies, market trends, regulatory/policy aspects, mobile information society
- Analysis supported by country-specific case studies
- Over 70 pages of statistical tables presenting latest available data.
- The ITU Mobile/Internet Index**



The ITU Mobile / Internet Index

What it is:

- A measure of current information and communication technologies (ICT) development, with a focus on mobile and Internet
- A measure of an economy's ability to take advantage of these technologies in the future

What it is not:

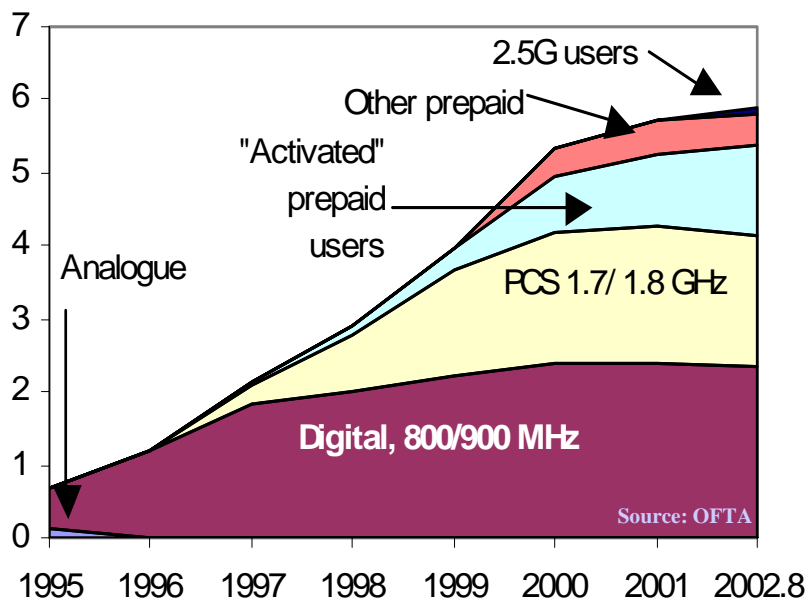
- A measure of the “mobile Internet” in an economy
- Limited to mobile and Internet development only

The Top 25

Economy	Score	Rank	GDP
Hong Kong, China	65.88	1	\$24'249
Denmark	65.61	2	\$30'902
Sweden	65.42	3	\$25'654
Switzerland	65.10	4	\$33'522
United States	65.04	5	\$37'769
Norway	64.67	6	\$35'265
Korea (Rep.)	63.42	7	\$8'828
United Kingdom	63.00	8	\$24'607
Netherlands	62.25	9	\$23'995
Iceland	62.03	10	\$32'069
Canada	61.97	11	\$23'256
Finland	61.22	12	\$23'883
Singapore	60.58	13	\$21'188
Luxembourg	58.58	14	\$44'664
Belgium	57.80	15	\$22'498
Austria	57.72	16	\$23'286
Germany	55.53	17	\$22'675
Australia	55.40	18	\$19'474
Portugal	55.13	19	\$11'014
Japan	54.94	20	\$34'337
France	52.45	21	\$21'862
Greece	51.44	22	\$10'707
Italy	51.13	23	\$18'788
Czech Republic	50.95	24	\$4'963
New Zealand	50.47	25	\$11'847

#1: A 'networked' Hong Kong

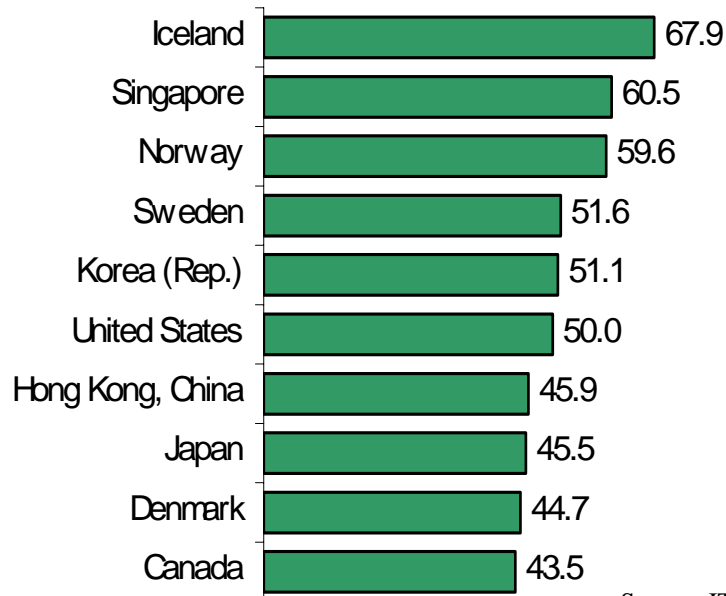
Mobile users, Hong Kong, China (million)



85.5 % mobile penetration

45.9 % Internet penetration

Internet users, top 10 by density, per 100, 2001



For more information: www.itu.int/mobileinternet



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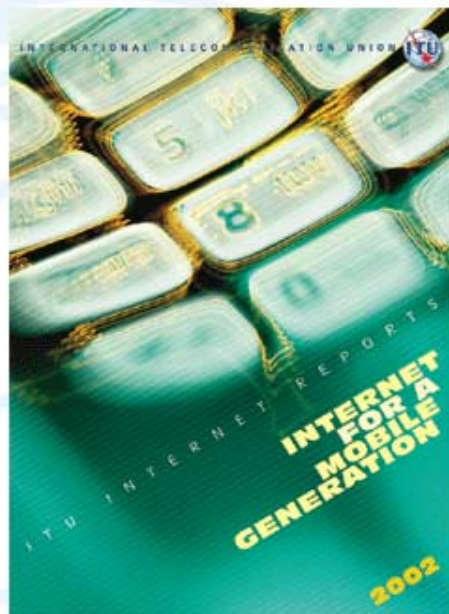
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ITU Internet Reports 2002: Internet for a Mobile Generation

Number of pages: text 140, statistical tables 80

4th edition, price: 100 Swiss Francs

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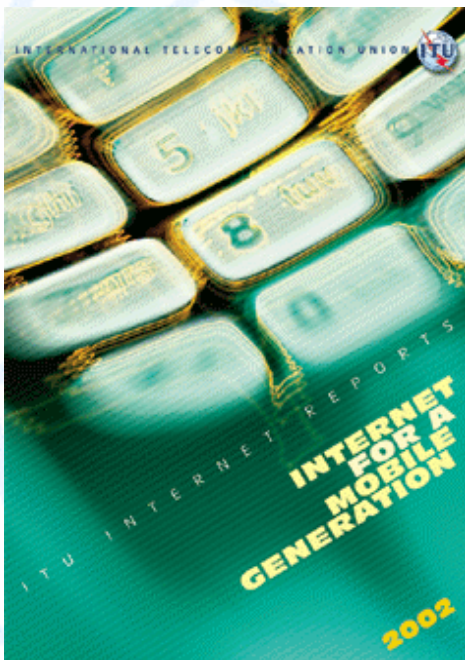
Previous Reports in the ITU Internet Reports series (previously known as "Challenges to the Network")

■ Third report (December 2000)
["ITU Internet Reports 2001: IP Telephony"](#)

■ Second report (February 1999, updated October 1999)
["ITU Internet Reports 2000: Mobile Internet"](#)

Internet for a mobile generation

ITU Internet Report 2002



180 pages of text and analysis
70 pages of statistical annexes

Price: 100 CHF

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