



review of recent opportunities and challenges in developing and deploying the ultra low-cost handset Bruxelles, December 6, 2005

# **€valuating the cost of the handset** and mobile telephony as a barrier to uptake

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ITU

#### ITU



- o founded in 1865
- o an impartial, international organization that helps governments and the private sector to work together to coordinate the operation of telecommunication networks and services, and to advance the development of communications technology
- o 189 member states and over 600 (primarily private) sector members

# helping the world to communicate



- o as a United Nations agency, the ITU has an obligation to produce statistics covering its sector. This is in line with other specialized agencies that publish statistics covering their respective field of operations. This forms part of the global statistical system of the UN.
- o inside ITU, it has been called upon "...to survey countries and produce world and regional reports, in particular on...world telecommunication developments."

#### data collection



#### how?

- o two Telecommunication Indicator Questionnaires per year addressed to government agencies in charge of ICT/telecom, or operator
- o online research
- o annual reports

#### what?

- o telephone network
- o mobile services
- o traffic/tariff
- o quality of service/staff
- o revenues & investment
- o broadcasting
- o information technology
  - pc
  - internet subscribers/users
  - broadband/bandwidth

data is entered into the World Telecommunication Indicators Database

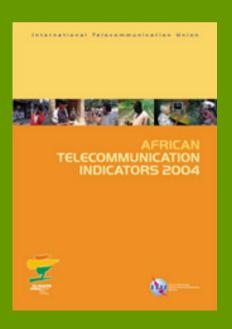
# beyond statistics

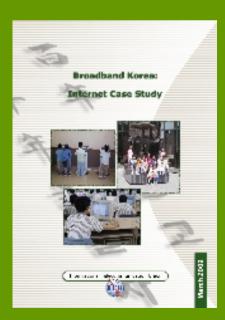


- world telecommunication development report
- regional reports on ict/telecom developments
- case studies (www.itu.int/ict/cs)



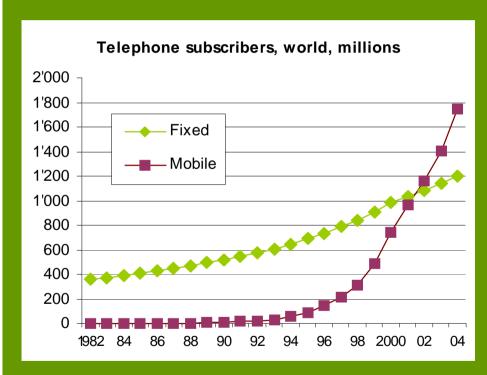


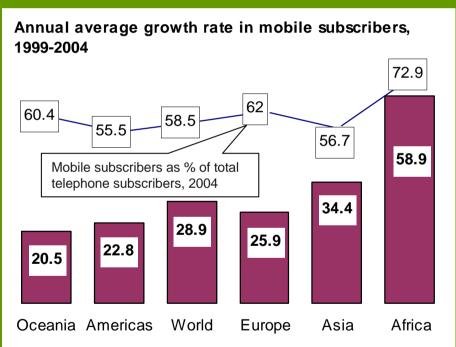




# mobile boom

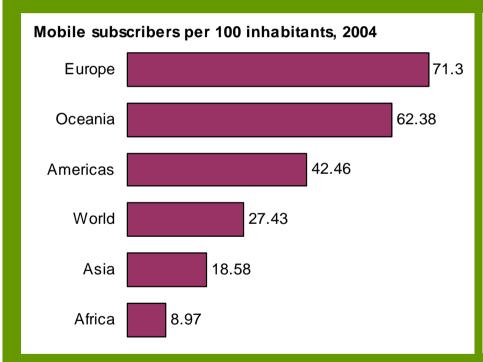


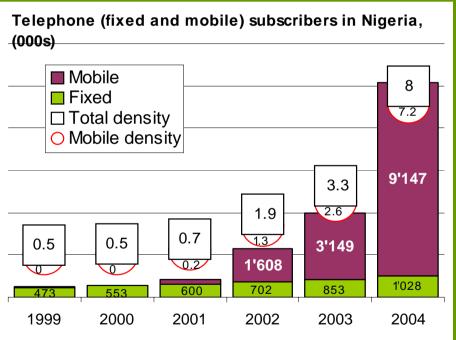




# mobile creates digital opportunities

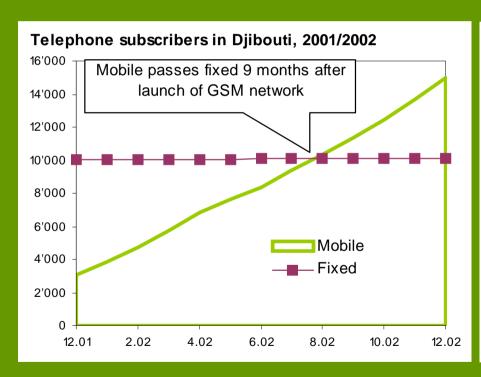


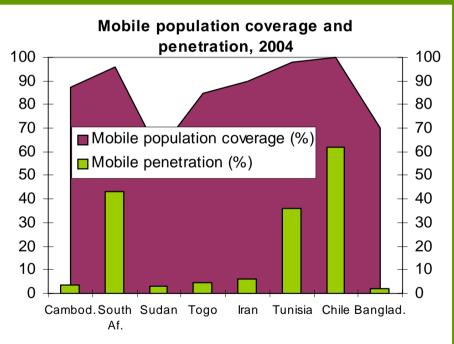




#### the least wired continent on earth...



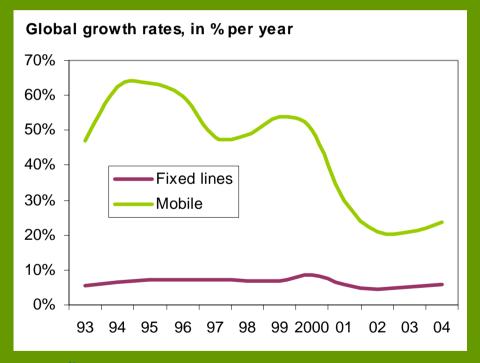




### fixed to mobile substitution



- o cutting the cord
- o going straight to mobile



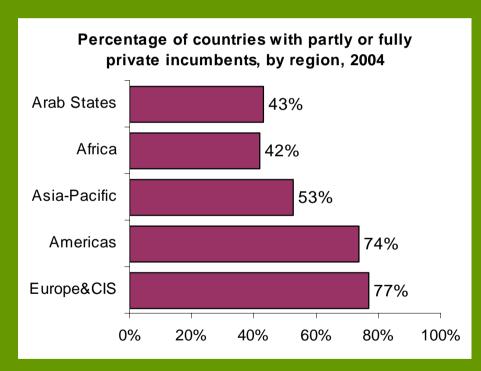
#### reasons for mobile boom

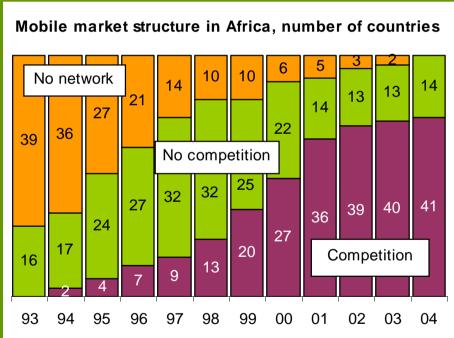


- regulatory
  - competition
  - privatization
- technical easier to roll-out than fixed line network
- cost
  - decreasing mobile tariffs
  - pre-paid / no monthly subscription

# privatization & competiton

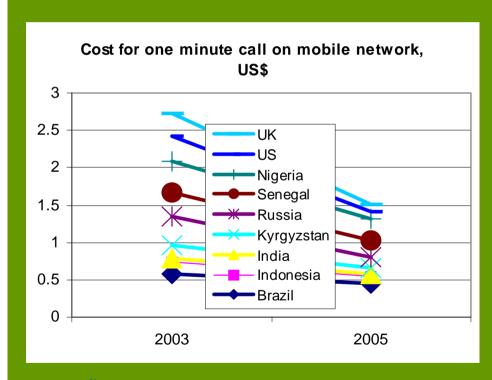


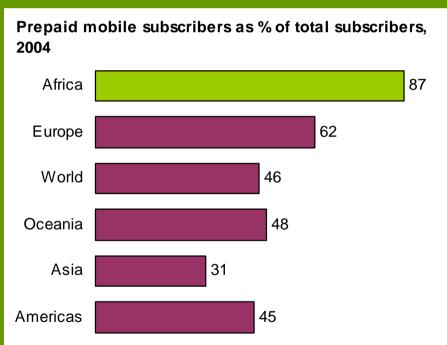




# cost of mobile







# the potential of ULCH

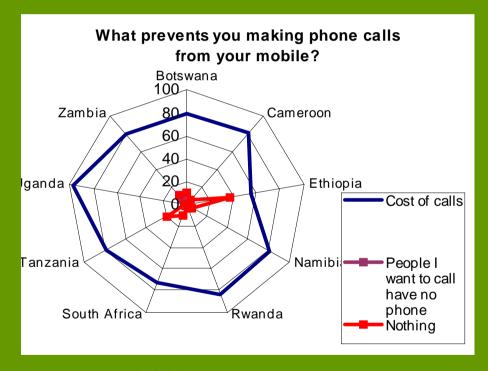


- o million € ?: will low-cost handsets bring more growth, help bridge the divide and bring more & better business?
- o a number of reasons to believe so...

#### mobile has fewer barriers



- o the most important barriers to higher ict (telephone, internet etc) levels are
  - infrastructure
  - skills/education
  - cost

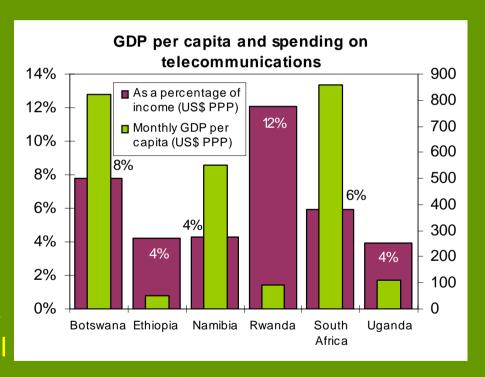


source: researchICTafrica.net

# here's some good news for operators & manufacturers



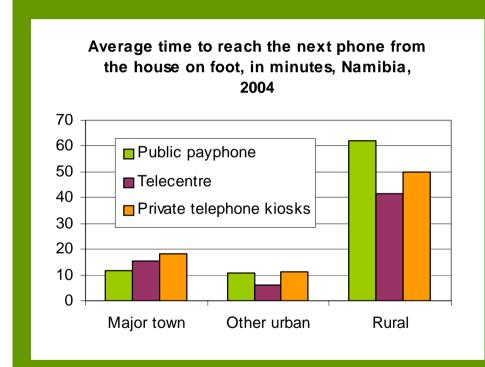
- o e-access study
- o people are prepared to pay relatively high price for mobile telephony
- o perhaps...
  - benefits of mobile phone compensates for cost
  - gdp per capita is not the perfect proxy to determine income levels and potential number of customers

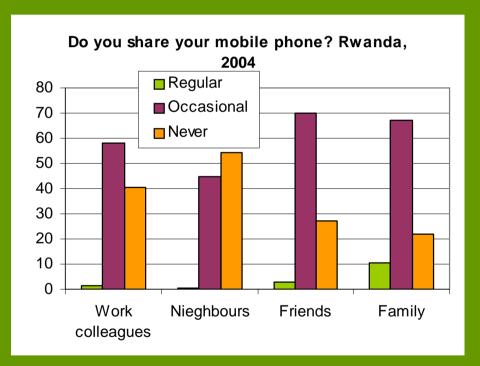


source: researchICI africa.ne

# other findings from the study



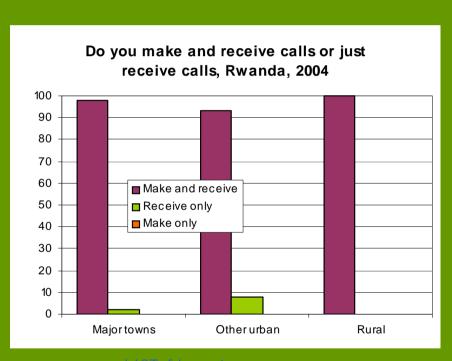




source: researchICTafrica.net

# findings highlight

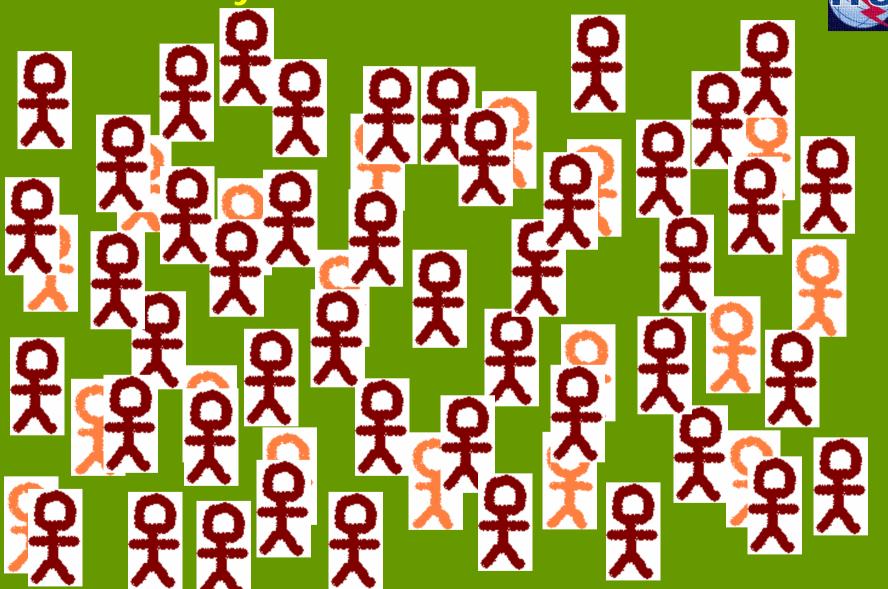


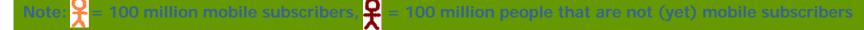


source: researchICT africa.ne

- o the demand side for mobile phones is very high
- o there is little user information on handsets and how much (low-income) users are prepared to pay

# how many are still without a mobile?





# evaluating demand and supply side benefits: cooperation for information



- o the users' point of view: evaluating the need & potential for mobile phones
  - household ict surveys that include questions to identify needs/barriers
- o the suppliers' point of view: handset manufacturers and operators
  - need to evaluate lowest possible cost (limit of profitability) based on subscriber numbers and ARPU
  - distribution/re-selling mechanisms
    - provide free/subsidized handsets
    - create local businesses (micro-credits etc)
  - increase « value » of mobile phone
    - applications, services and distribution mechanisms that address local needs