Mobile telecommunications competition or cartel?

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INTUG contents

- closing the digital divide
- market failures
- choosing technologies
- ensuring investment
- conclusions



INTUG what is INTUG?

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



INTUG our aims

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



INTUG closing the digital divide

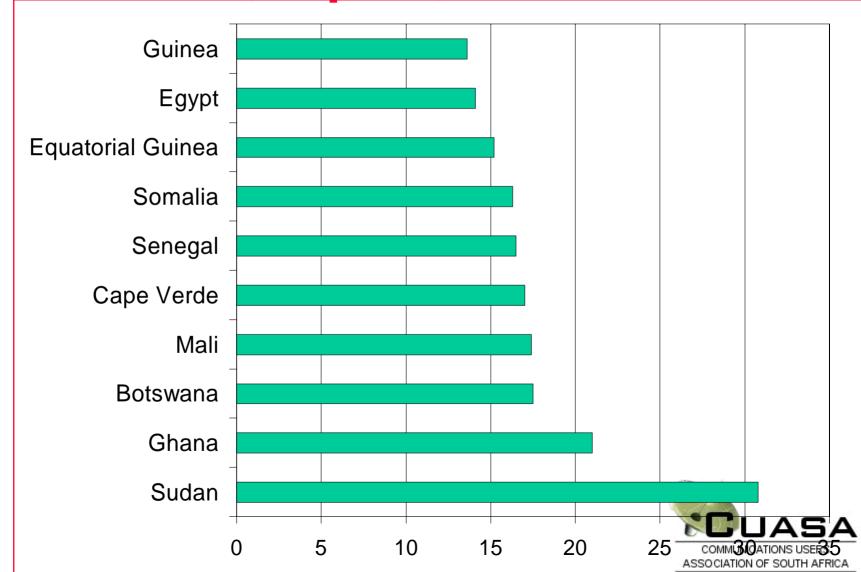
- ITU Maitland Report in 1984
- advances in developed countries:
 - mobile
 - Internet
- reductions in costs
- loss of revenues from accounting rates
- mobile telecommunications
 - surprising contribution to teledensity
 - proves that competition can work



fixed network growth 1995-INTUG 2001, top 10, CAGR %

23-25 October 2002

Tel.com Africa

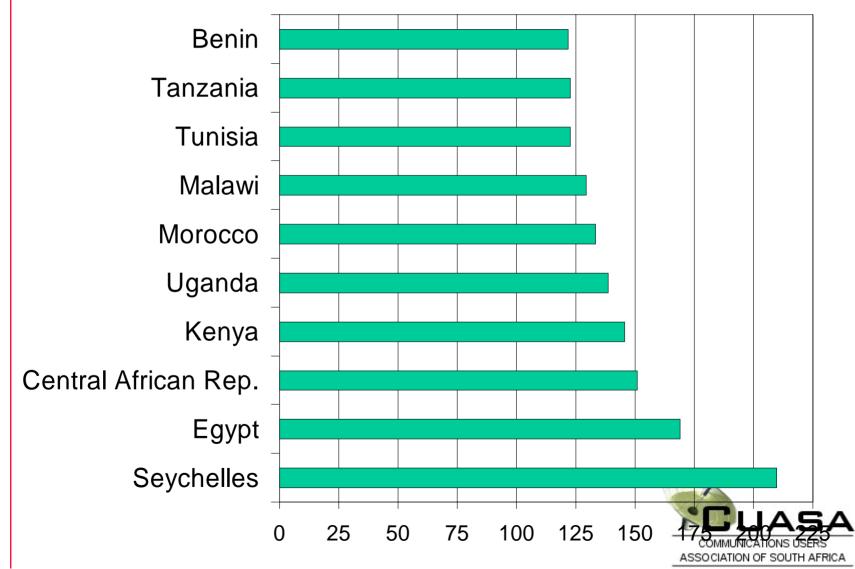


mobile network growth INTUG 1995-2001, top 10, CAGR %

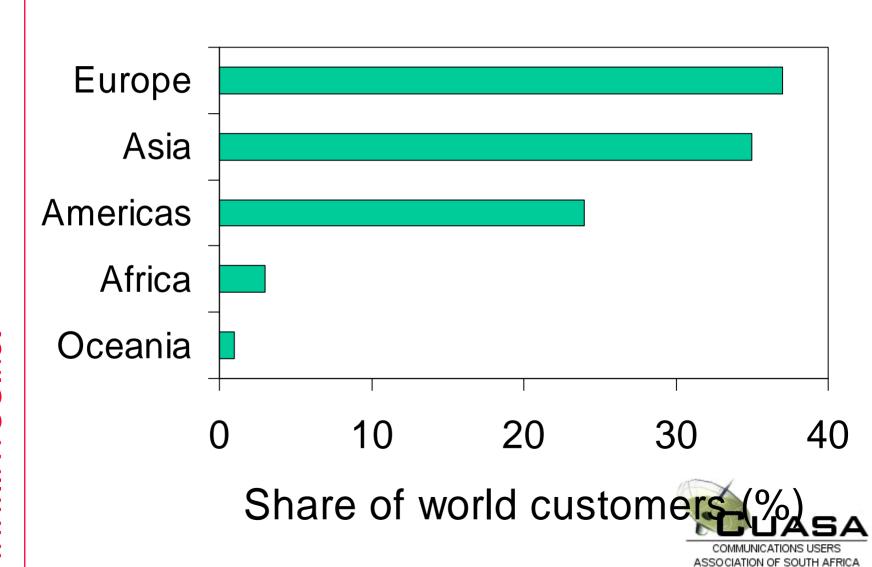
23-25 October 2002

G.net

Fel.com Africa







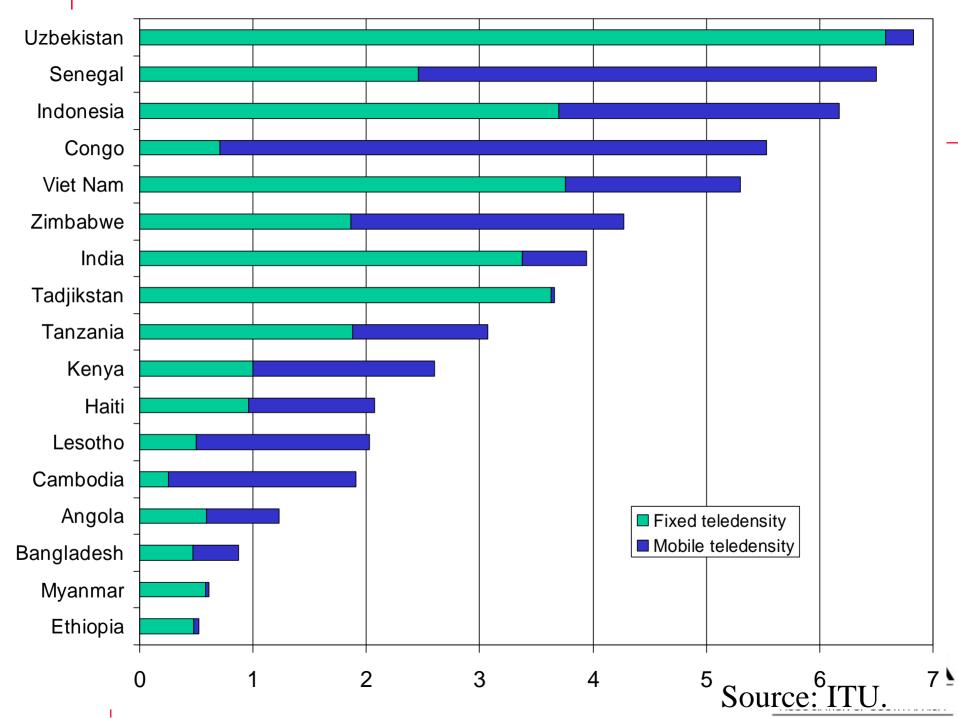
INTUG world mobile rankings - ITU

South Africa 19.2 (67th) Botswana 12.33 (82nd) Morocco 8.23 (93rd) Gambia 0.43 (161st) Kenya 0.42 (162nd) Madagascar 0.40 (163rd) Algeria 0.28 (165th) Mauritania 0.27(166th) Mozambique 0.26 (168th) Sierra Leone 0.25 (170th) Burundi 0.24 (171st)

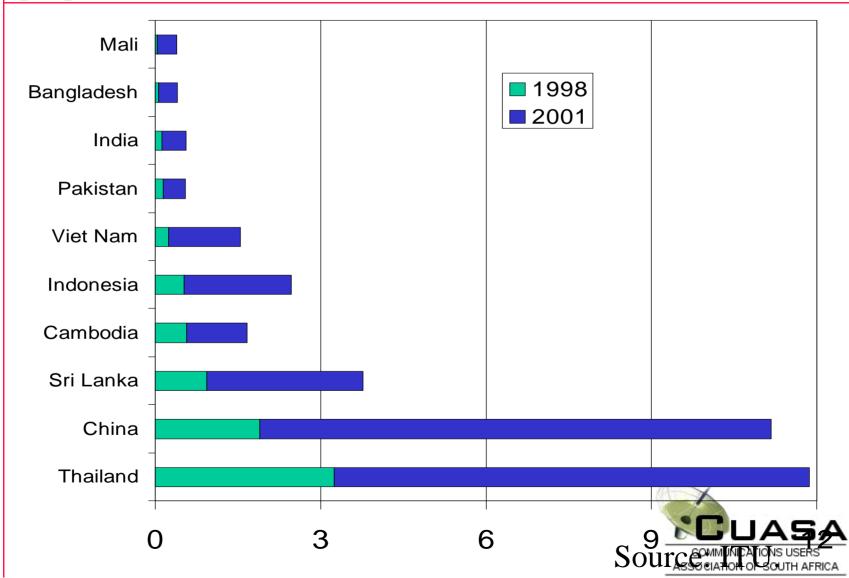
Burkina Faso 0.21 (175th)

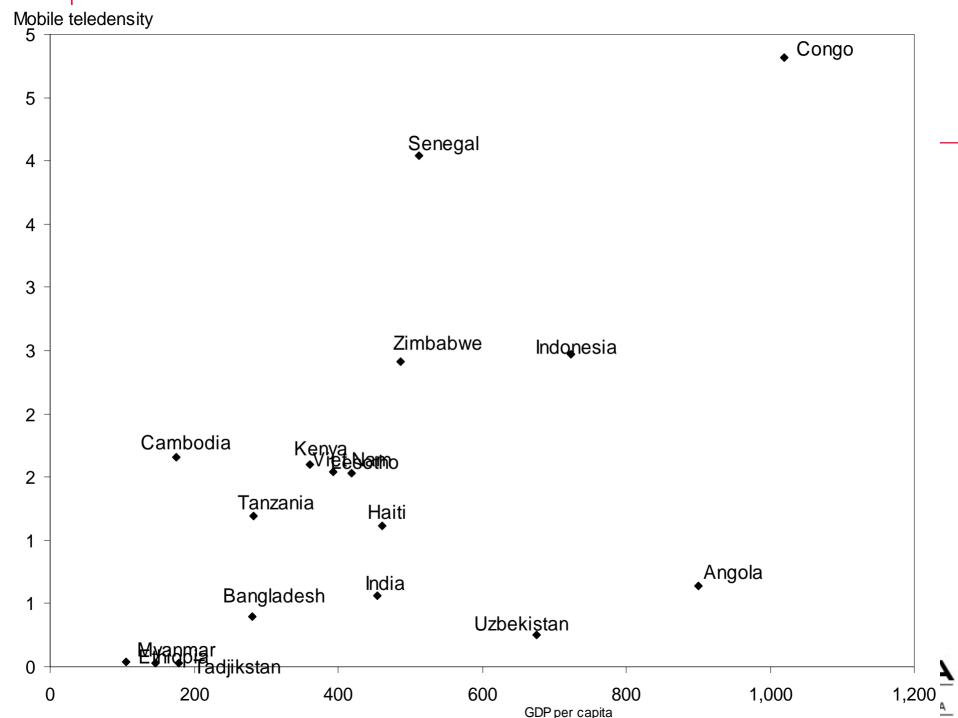
Angola 0.20 (176th) C.A.R. 0.14 (184th) Mali 0.09 (1985th) Sudan 0.07 (186th) Chad 0.07 (187th) Djibouti 0.04 (190th) Congo 0.03 (191st) Ethiopia 0.03 (193rd) Nigeria 0.02 (187th) Niger 0.02 (188th) Somalia 0.00

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INTUG mobile teledensity in low income countries





90 minutes/month of mobile INTUG as % of GDP per capita

- Burundi 11.00
- Tanzania 2.43
- Mali 2.38
- Burkina Faso 1.97
- Uganda 1.65
- Mozambique 1.64
- Ethiopia 1.58
- Malawi 1.44
- Benin 1.40
- Cameroon 1.36
- Togo 1.30
- Niger 1.04

- Côte d'Ivoire 0.96
- Kenya 0.92
- C.A.R. 0.68
- Zambia 0.78
- Senegal 0.61
- Zimbabwe 0.55
- Angola 0.49
- Morocco 0.29
- Namibia 0.21
- South Africa 0.21
- Gabon 0.15
- Botswana 0.16
- Algeria 0.16

INTUG market abuses

- call termination prices
 - domestic
 - international
- international mobile roaming
- Short Message Service
- financial market problems

Caused by an unwillingness to compete.

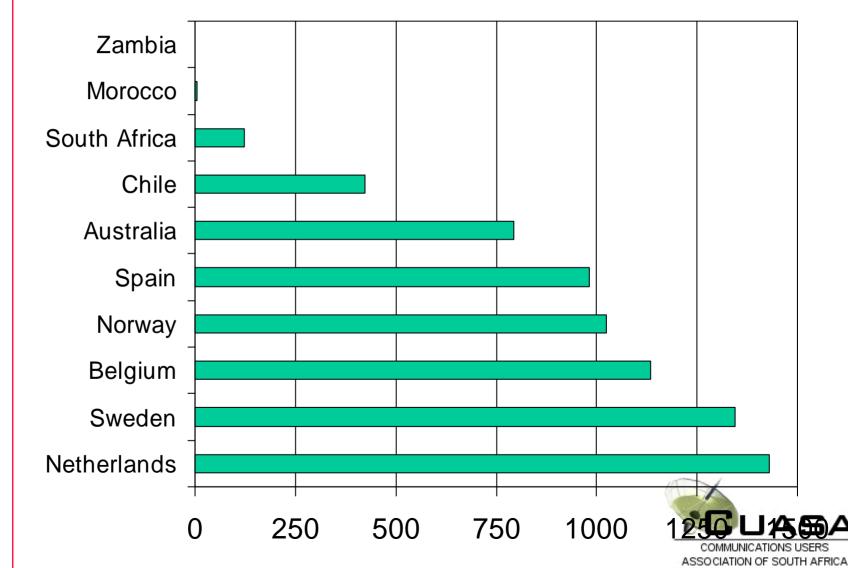


INTUG call termination prices

- regulated termination on fixed networks
- unregulated termination on mobile
- high and sometimes rising prices
- operators are dominant on their own market
- started at home but extended abroad
- need to drive down prices



INTUG fixed/mobile price difference (%)



INTUG international mobile roaming

- investigation by the Competition Directorate-General of European Commission begun in 1999
- looks like a cartel
- absence of competition
- inexplicable price variations
- ripping off each other's customers
- operators heavily reliant on this, can be 15% of total revenues

23-25 October 2002

INTUG South Africa and Belgium

- Belgacom (fixed incumbent)
 - peak €1.00 off-peak 0.86
- Proximus (Vodafone group)
 - international call to RSA €1.66
 - forwarding to a roamer in RSA
 - €2.08 MTN or Vodacom
 - calling from RSA to Belgium
 - on MTN €1.43 or €1.19 (off-peak)
 - on Vodacom €1.51
- Telkom
 - peak R 3.64 or 3.29 off-peak (€0.34)
- Vodacom
 - international calls to Belgium R 5.30 and R 4.16 off-peak (€0.50 and 0.39)
 - Vodacom roaming on Proximus
 - Forwarding to a roamer R 4.23 (€ 0.40)
 - Call back to RSA R 32.12 and 30.18 off-peak (€3.00/2.82)

Price per minute Min € 0.34 R 3.64 Max € 3.00 R 32.10

INTUG state of play

- regulators and competition authorities are now fully aware of these issues
- they will drive down voice revenues of many operators
- operators will need to compensate with data and VANS revenues
- challenges from:
 - Voice over IP over GPRS and WLAN
 - instant messaging

INTUG SMS

- carried in the signalling channel
- costs to the operator are minimal
- massive contribution to revenues
- prices driven up in a spiral
- operators stabilising ARPU
- looks like a cartel
- a fairly straightforward case for a willing regulator

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INTUG i-mode

- SIM-locked
- portal-locked
 - "walled garden"
- selective third-party billing
- very, very hard to transplant



INTUG market failures

- HSCSD
 - nobody has heard of this
- WAP
 - killed by hype
- GPRS
 - no business users
 - only trialists



INTUG financial markets

- until 2000 analysts used:
 - size of customer base
 - growth
- got rid of the analysts
- operators now provide the Average
 Revenue Per User (ARPU) each month
- no remaining trust for telecommunications
- so very little money available, even for good ideas



INTUG chosing technologies

- GSM or CDMA?
- GPRS or CDMA2000?
- or CDMA/WLL/M?
- 3G?
- regulation as a hand-maiden to investment



INTUG GPRS

- like ISDN for mobile phones
- only being used in trials
- even big companies see this as grossly over-priced
- roaming prices are higher still
- no signs or hopes of any revenues for the operators
- EDGE and 3G due very soon



INTUG 3G

- transition to 3G was to be easy and lucrative
- financial markets pushed the operators, now telling them to get out
- few handsets and no services, so no additional revenues
- regulatory problems of network sharing
- may only ever be consumer services
- competition from WLAN, Bluetooth, IR ...
- today there is no business case for operators

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INTUG other problems

- competition law problems
 - open access
- privacy and data protection problems
 - especially when roaming
- no billing software
- push adverts
- unsolicited messages ("spam")



INTUG consolidation

- operators are keen to limit competition
- they want to "consolidate"
 - leave markets where they are weak
 - strengthen where they are strong
- secondary trading of spectrum
- want to avoid bankruptcies which would allow in new players



INTUG WLAN

- need to ensure spectrum is available
 - 2.5GHz and 5.8GHz
 - harmonised
- consider licensing of public services
- encourage proper security
- it can add considerably to competition



INTUG investment

- regulation and the investment decision making process are inextricably linked
 - timing
 - costs
- asymmetry
- operators play complicated political games for financial gain, regulate my competitors, not me



INTUG conclusions

- mobile has contributed to closing the digital divide
- enormous variations in performance
- well established market failures
- very worrying signs from 3G
- little revenue from either data or VANS on 2.5G
- WLAN looks interesting



INTUG thank you

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