



Joint ITU/ECA Regional Workshop on  
Information and Communication Technologies (ICT) Indicators  
Gaborone, Botswana  
26-29 October 2004

# Top 50 Telecom Indicators

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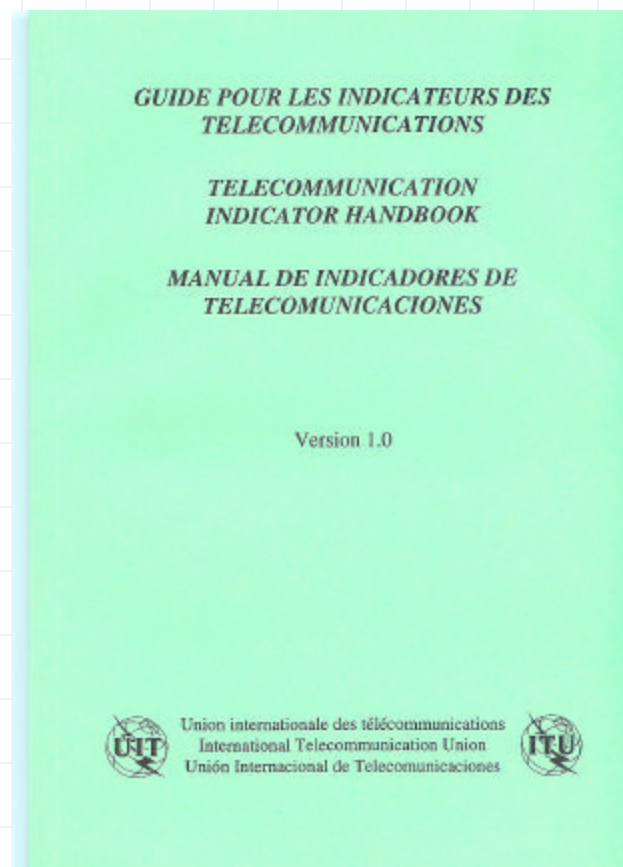
Host: Botswana Telecommunications Authority (BTA)





# Background

- ◆ Indicators published *in Yearbook of Statistics and World Telecommunication Indicators database*
- ◆ Based on *Telecommunication Indicator Handbook*
- ◆ Updated during the last World Telecommunication Indicators Meeting, January 2003





# Guidelines

- ◆ International comparability: Trade-off between wish list (everything!) and most important and most likely to collect from most countries
- ◆ **Telecom sector mandate:** Subscriber, tariffs, traffic, revenue statistics, etc.
- ◆ Audience: Analysts, governments
- ◆ To be collected by **regulators/ministries** from operators



# Categories of current Top 50

- ◆ Telephone network
- ◆ Mobile services
- ◆ Text/Data Network
- ◆ Quality of service
- ◆ Traffic
- ◆ Tariffs
- ◆ Staff
- ◆ Revenue
- ◆ Investment



# Telephone network

1. Main telephone lines in operation
2. Total capacity of local public switching exchanges
3. Main lines connected to digital exchanges
4. Main lines which are for residential use
5. Main lines in urban areas
6. Number of localities with telephone service
7. Public pay phones



# Mobile services

8. Cellular mobile telephone subscribers
  - Cellular mobile subscribers: prepaid
9. Digital cellular mobile telephone subscribers
10. Mobile Internet subscribers
11. Percent coverage of mobile cellular network
  - a. Land area
  - b. Population



# Text/Data network services

12. Number of telex subscriber lines
13. Private leased circuits
14. Total subscribers to public data networks
15. Internet subscribers
  1. Dial-up
  2. Broadband
    1. Cable modem
    2. xDSL
    3. Other



# Text/Data network services

## 16. Internet users (should be collected using regular NSO survey)

1. Percent female Internet users
2. Female Internet Users as % of female population

## 17. Number of Public Internet Access Centres (PIACs)

1. Number of localities with PIACs - by urban/rural
2. Percentage of population with access to PIACs (govt/private)

## 18. PWLAN Locations

## 19. ISDN Subscribers

1. Basic rate ISDN subscribers
2. Primary rate ISDN subscribers





# Quality of Service

20. Waiting list for main lines

21. Faults per 100 main lines per year

22. Percent of telephone faults cleared by next  
working day



# Traffic

23. Local telephone traffic (minutes)

1. Fixed to mobile traffic

24. National telephone traffic (minutes)

25. International

1. incoming telephone traffic (minutes)
2. outgoing telephone traffic (minutes)

26. Dial-up Internet traffic (minutes)

27. Mobile traffic

1. Outgoing mobile traffic (minutes)
2. Number of mobile Short Message Service (SMS) sent



# Traffic (cont.)

28. International outgoing telegrams

29. International Internet bandwidth (Mbps)

1. Incoming
2. Outgoing

30. Public data traffic (non-Internet)



# Tariffs

## 31. Fixed telephone

1. Connection fee for telephone service (residential, business)
2. Monthly subscription for telephone service (residential, business)
3. Price of a 3-minute fixed telephone local call (peak rate)
4. Price of a 3-minute fixed telephone local call (off-peak rate)

## 32. National telephone call charges (peak, off-peak)

## 33. International telephone call charges (peak, off-peak)



# Tariffs

## 34. Mobile cellular

1. connection charge - postpaid, prepaid
2. subscription charge - postpaid
3. price of per minute local call (peak) - postpaid, prepaid
4. price of per minute local call (off-peak) - postpaid, prepaid
5. Price of national SMS - postpaid, prepaid



# Tariffs

35. Leased line charges

36. Data communication charges

37. Internet charges (dial-up)

1. Connection charge
2. Monthly rental charge
3. Usage charge

Broadband (monthly subscription)



# Staff

## 38. Total full-time staff in telecommunication services

1. Female telecommunication staff
2. Mobile communications staff



# Revenue

39. Total revenues from all telecommunication services of which:
  40. Revenues from telephone service
    1. Income from telephone connection charge
    2. Income from telephone subscription charge
    3. Income from local calls
    4. Income from national long distance calls
    5. Income from international calls
  41. Revenues from data transmission (including Internet access)
  42. Revenue from leased lines
  43. Revenue from mobile communications services
  44. Other revenues
  45. Value-added from telecommunications





# Investment

## 46. Total annual investment in telecom

- a) Foreign
- b) Mobile
- c) Fixed



# Broadcasting

- ◆ Number of radio sets
- ◆ Households with radio (HH survey)
- ◆ Number of television sets
- ◆ Households with a television (HH survey)
- ◆ Homes passed by cable television
- ◆ Cable television subscribers
- ◆ Direct to Home satellite antennas



Thank you for your attention!

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