

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

**Host: Botswana Telecommunications Authority (BTA)** 

## ITU Data collection, dissemination, analysis and other activities

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## **Topics – ITU statistics**

- Why? (Reasons for ITU data collection)
- How? (How do ITU collect statistics)
- What? (Indicators ITU collects)
- Dissemination demand for ITU data
- Analysis
- Usefulness of the data (who get's what?)
- Other ITU statistical activities
- Conclusion



## ITU Statistical Obligation

- 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.
- Inside ITU, Resolution No. 8 (Istanbul, 2002) calls on the Director of the BDT "...to survey countries and produce world and regional reports, in particular on...world telecommunication development."
- ITU through it's "Indicators" is the main source of internationally comparable data on telecom



#### Data collection - How and what

#### HOW?

- Two Telecommunication Indicator Questionnaires per year addressed to government agencies responsible for telecom/ICT or operators
- Online research
- Annual reports

#### WHAT?

- Telephone network
- Mobile services
- Traffic
- Staff
- Quality of Service
- Tariffs
- Revenues & Investment
- Broadcasting
- Information Technology

Data are entered into the World Telecommunication Indicators Database



### Storage - ITU data



- Data stored include:
  - annual numerical data (indicators)
  - industry/country operators' information (contact details, operators functions, short description, etc.)
- Updated regularly to cope with the fast changing telecom/ICT environment
  - New indicators added
  - "Old" indicators kept in the database for future use

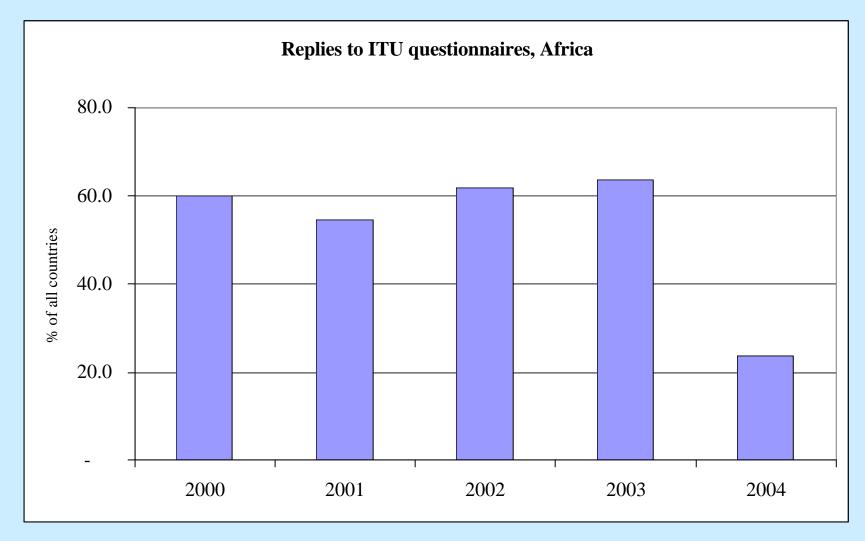


## **Data Collection - Challenges**

- Not every country returns/answers questionnaire
- Incomplete data: Not all questions get answered
- More work to aggregate operators' data since the fall of monopoly
- Operators data or annual reports sometimes not available
- Newer telecom/ICT data hard to obtain from developing countries
- Not all national statistical agencies collect ICT statistics



#### **Data Collection - Questionnaires**

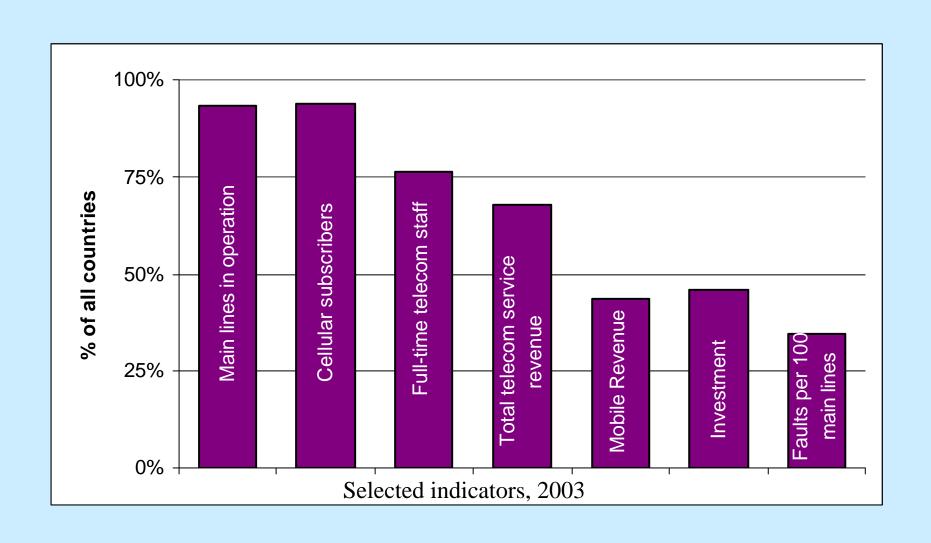


Source: ITU World Telecommunication Indicators database



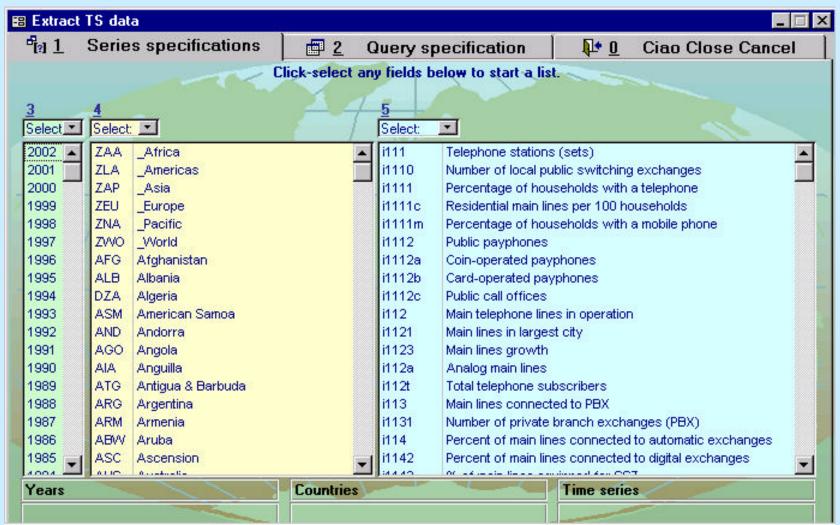
## **Data Collection - Challenges**

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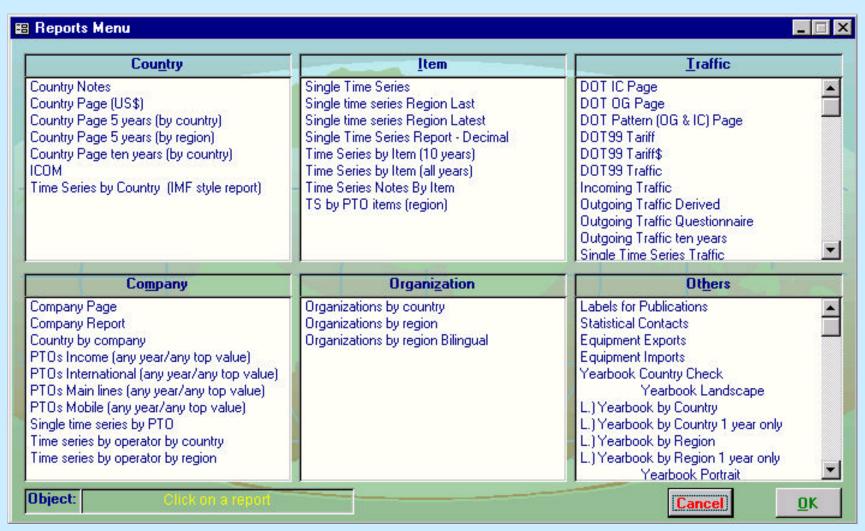
### Data Retrieval - ITU purposes



- •Using MS ACCESS application, we can:
  - -Query/ extract data depending on users needs



#### Data presentation - (ITU internal purposes)



 Reports either by indicator, by country, by region and by operator can be generated using above window.



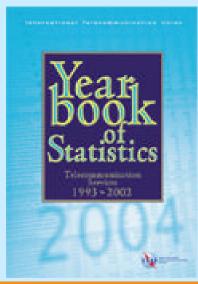
#### Data dissemination

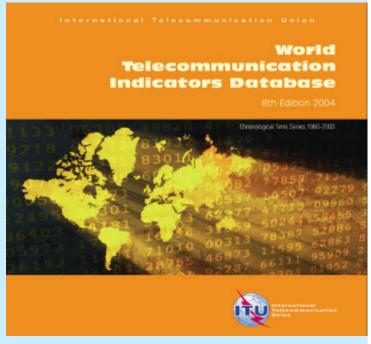
#### Yearbook of Statistics

- Published annually for almost3 decades
- Covers 80 ICT/telecom indicators for almost 200 economies

## World Telecommunication Indicators Database

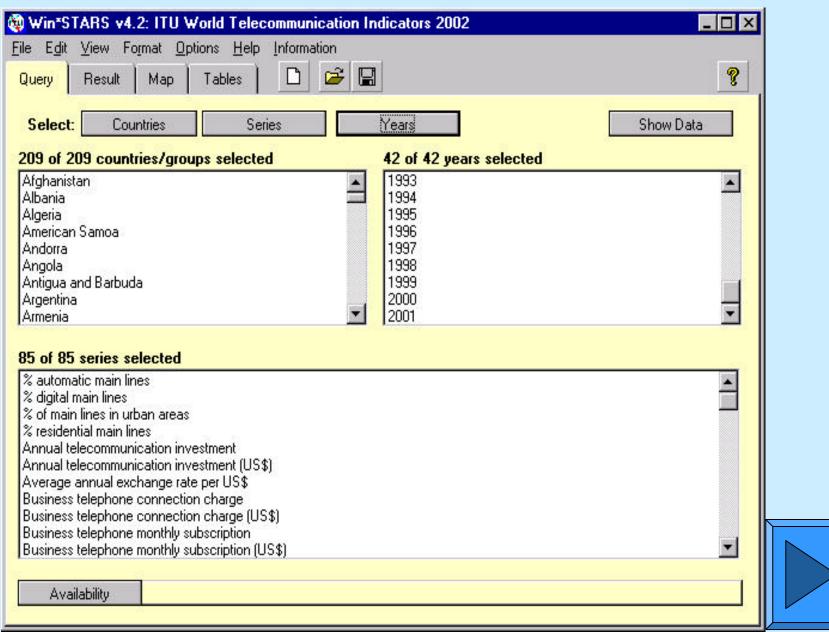
- Time series data for the years 1960, 1965, 1970 and annually from 1975-2003
- Covers 80 ICT/telecom indicators for almost 200 economies
- Online, at <u>www.itu.int/ict/statistics</u>







**Dissemination - World Telecommunication Indicators** 





#### Other forms of dissemination

 Free statistics published in our ICT website for basic indicators, cellular subscribers, information technology and data for top operators (<a href="http://www.itu.int/ITU-D/ict/statistics/">http://www.itu.int/ITU-D/ict/statistics/</a>)

Requests made by users either by phone, fax or email



#### **Analysis - Regional Publications**



- Specifically prepared for regional Telecom events
- Contains 3 parts: Overview, regional statistics, directory of telecommunication operators
- Africa Telecom
   Indicators 2004 released
   during Telecom Africa 2004
- Latest is Asia Telecom
   Indicators 2004 released
   September 2004



## **Analysis - (Global)**

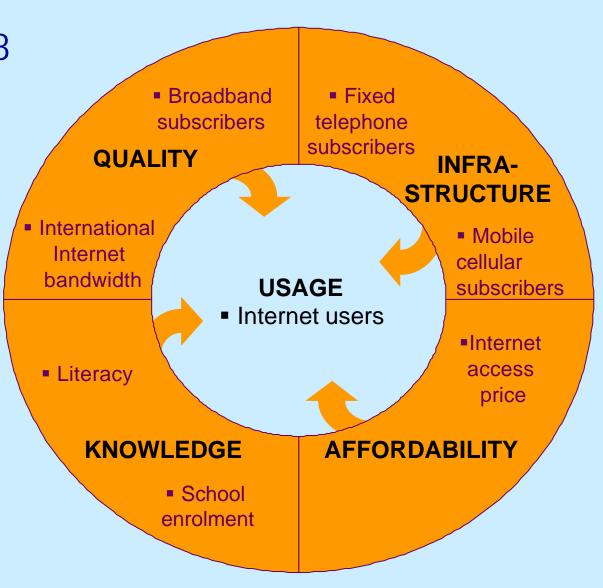


- World Telecommunication Development Report
- Contains overview of world telecom indicators
- Highlights topics relevant to global issues
- Latest released December 2003 during WSIS, Geneva
- Includes the first release of Digital Access Index (DAI)



## Digital Access Index, 2003

- The DAI ranks 178
   economies
   according to their
   ability to access
   ICTs
- Based on 5 categories and 8 indicators
- Classifies
   economies into:
   high, upper,
   medium, low



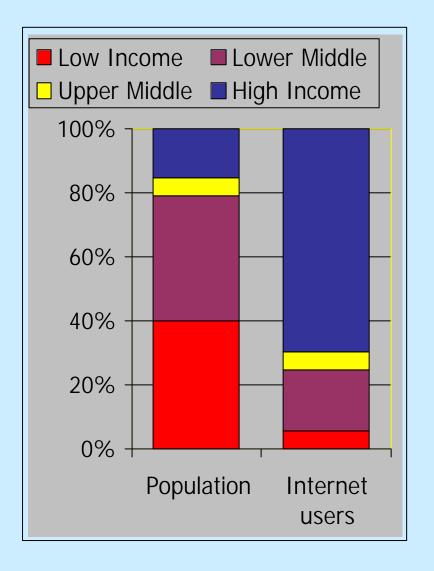


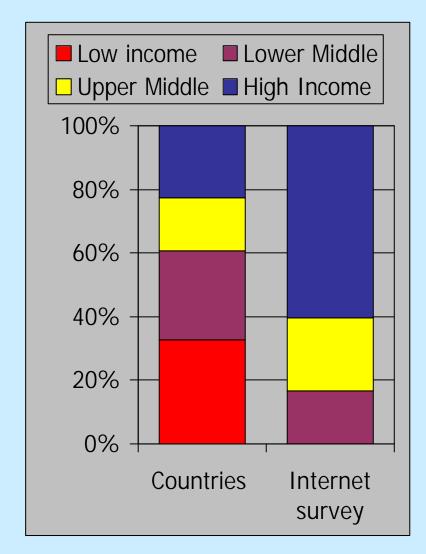
## Administrative data versus survey data

- Regulators/ministries can collect data through administrative records (data from operators)
- In certain areas administrative data needs to be complemented by surveys:
  - Internet usage (as opposed to subscription!)
  - ICT availability in households (PCs, Internet, etc)
  - Consumer satisfaction, household telecom expenditure
- Collaboration with National Statistical Office is crucial in carrying out surveys



#### The digital divide and the statistical divide





Source: ITU, 2003.



## Who gets what

- Operators have access to national and regional telecommunication trends
  - Track market position and potential
  - International benchmarking exercises
- Regulators/ministries receive (national & regional) overview
  - Identify trends and benchmark results
  - Make informed policy decisions
  - Make regional/international comparisons
- Public is informed on trends and services
- Investors identify new market opportunities
- ITU fulfills its commitment with regard to bridging the digital divide



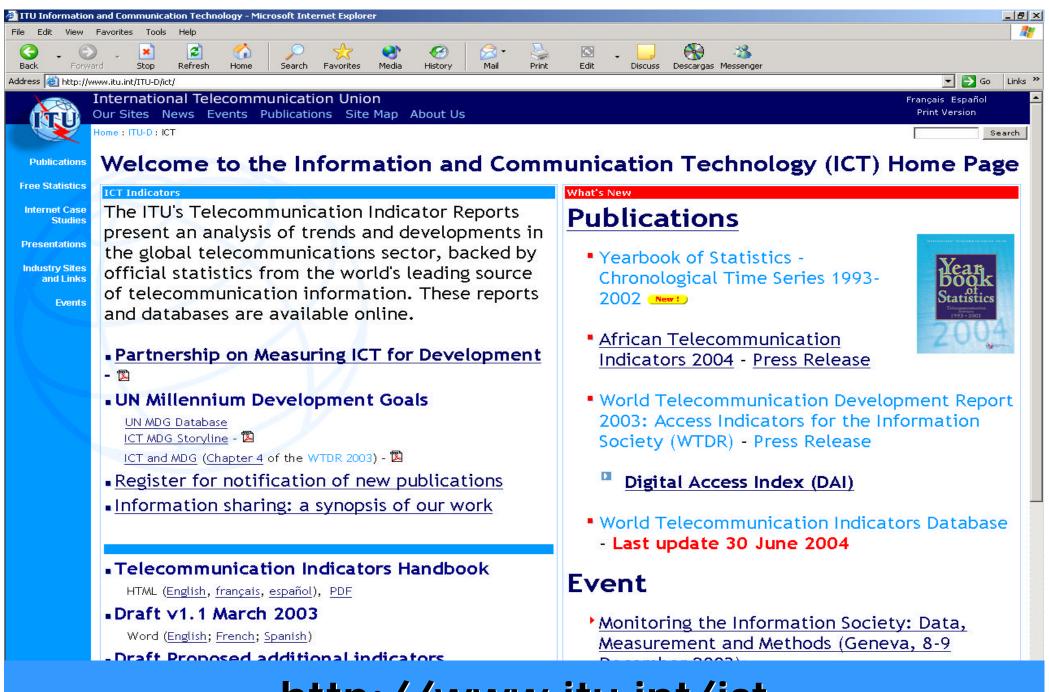
#### Conclusion

- Focus on core indicators, avoid too many questions
- Close coordination between regulator/ministries and operators (optimal information supply)
- Indicators should be clearly defined
- Information needs to be consistent and comparable, in type, in form and in timeliness
- Consider international efforts to collect/harmonize ICT/Telecom statistics for maximum comparability (ITU)



## Other activities: International cooperation & coordination

- The Millennium Development Goals: ITU tracks target 18 of the MDGs
  - Main telephone lines, cellular subscribers, Internet users (for UN MDG database)
  - Prepares story-lines for UN Secretary General's report on MDG
- Partnerships: "Partnership on Measuring ICT for Development" (ITU, UNCTAD, UNESCO, OECD, World Bank, UN ICT Task Force, UN Regional Commissions, NSOs)
- World Telecom Indicators meeting (February 2005)



http://www.itu.int/ict