

International Telecommunication Union

**WORLD
TELECOMMUNICATION
DEVELOPMENT
REPORT**

Access Indicators for the
Information Society



 world summit
on the information society
Geneva 2003 - Tunis 2005

 International
Telecommunication
Union

2003

ITU World Telecommunication Development Report

Access Indicators for the Information Society

Press Briefing
UN, Geneva
4 December 2003

What the report is

- A practical toolkit with dozens of definitions and examples of indicators & surveys used to measure access to ICTs that governments can use to improve their statistical practices.
- A 100-page statistical annex covering a range of data for 182 countries in 20 statistical tables is also included. These “World Telecommunication Indicators” include data such as the number of telephone subscribers, television households and Internet users.

Why measure access?

“We, the representatives of the peoples of the world... declare our common desire and commitment to build a people-centered, *inclusive* ... Information Society, where *everyone* can create, *access*, utilize and share information and knowledge, enabling individuals, communities and peoples to achieve their full potential ... and improving their quality of life...”

—World Summit on the Information Society, Declaration of Principles, Draft of 14 November 2003

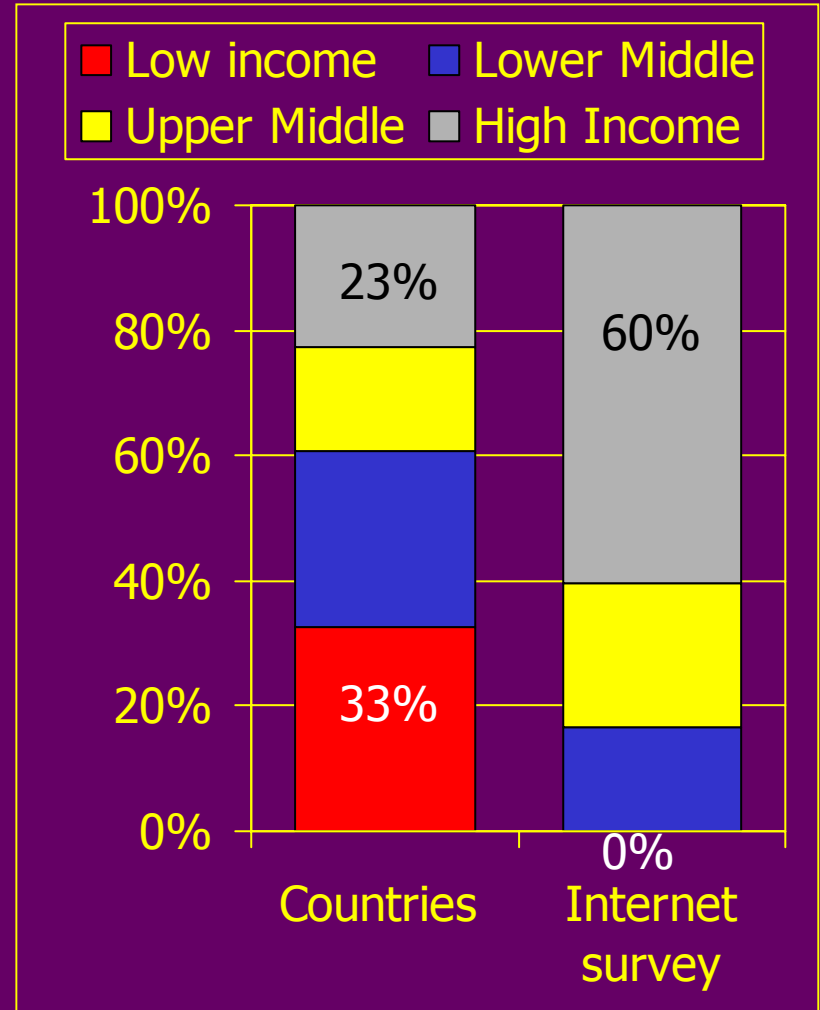
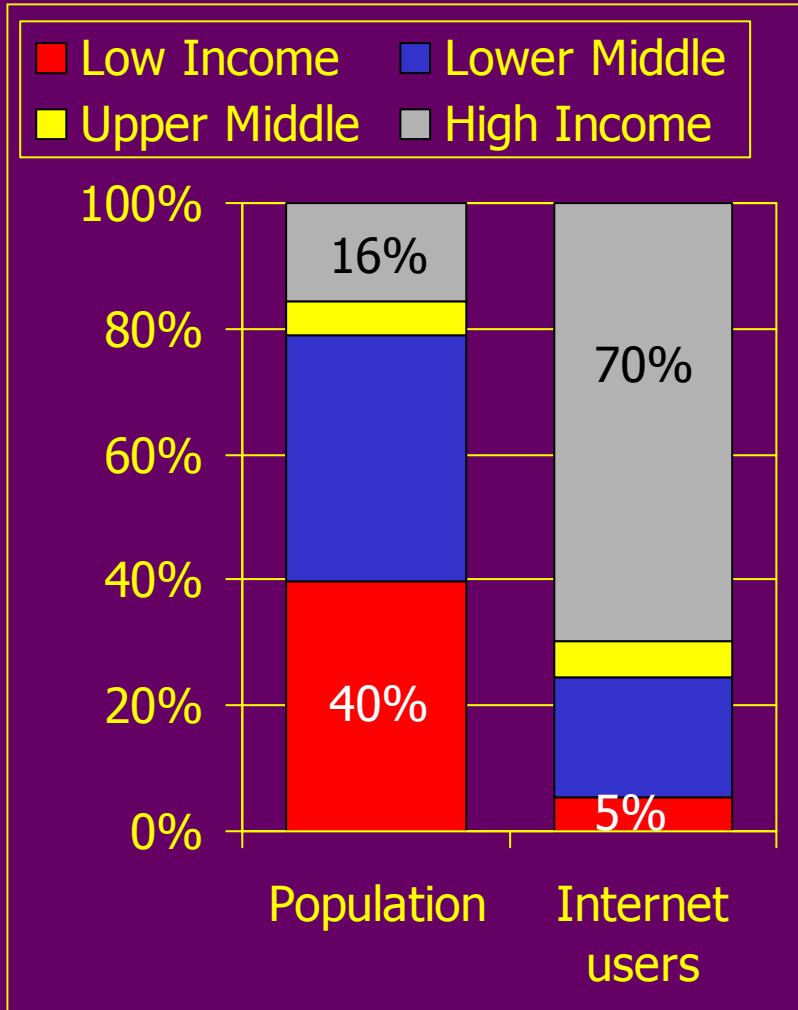


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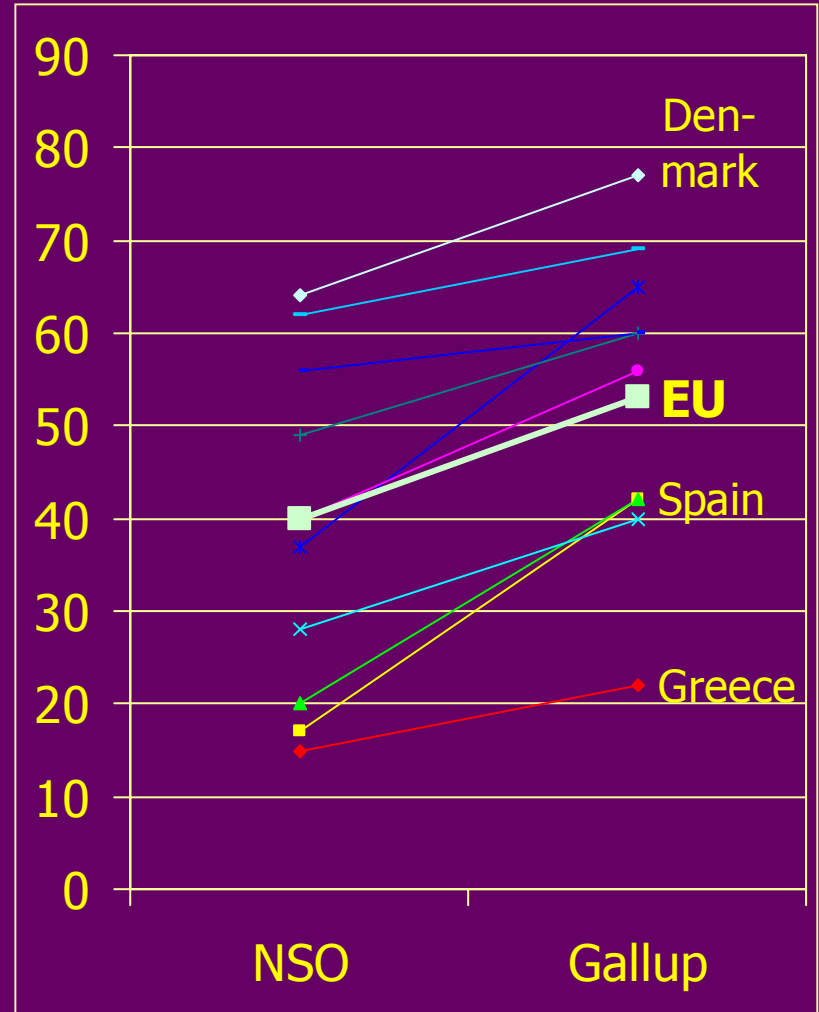
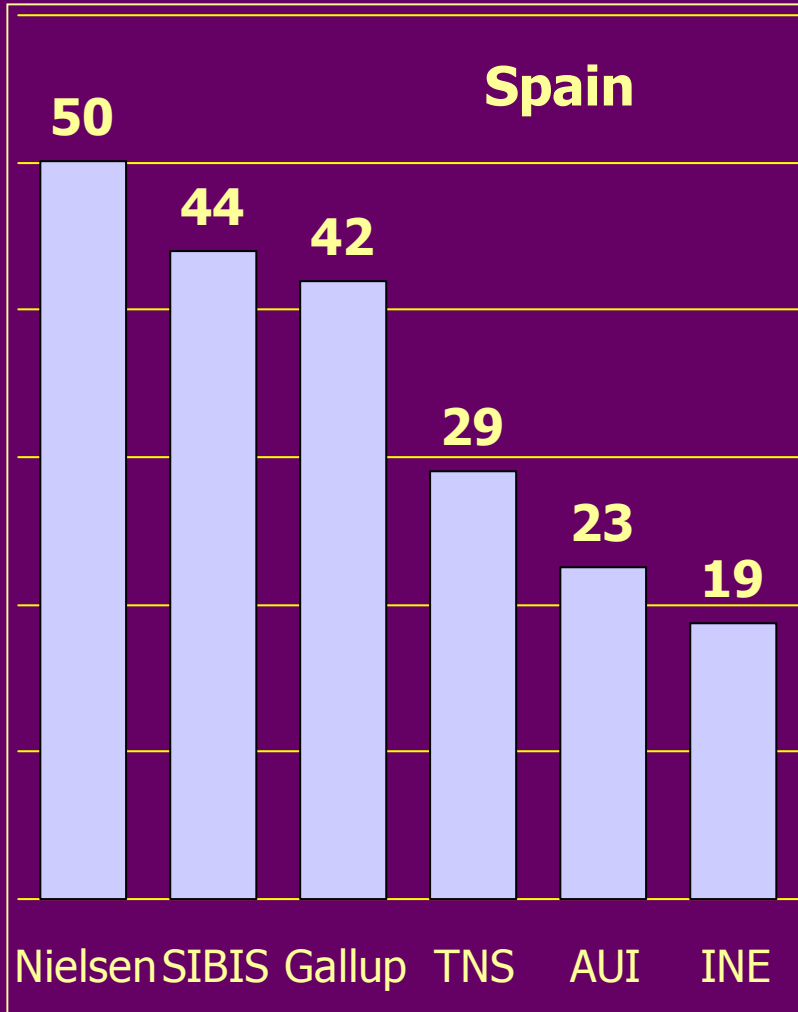
World Telecommunication Indicators

The digital divide & the statistical divide



Over-surveyed

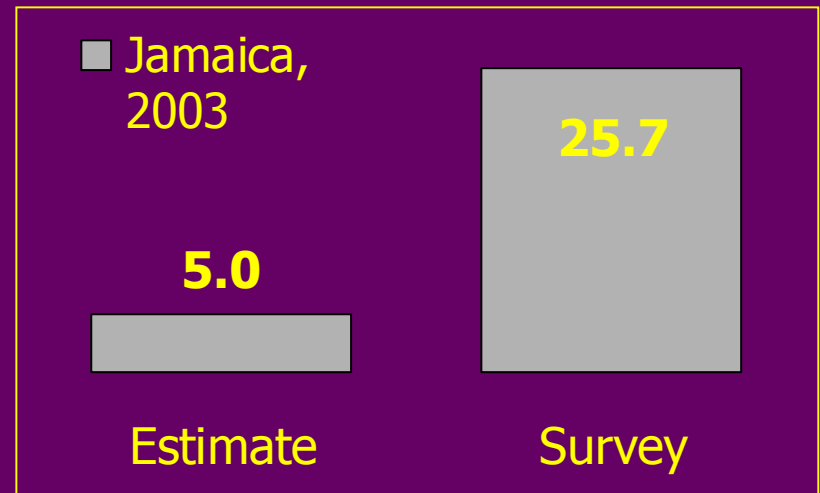
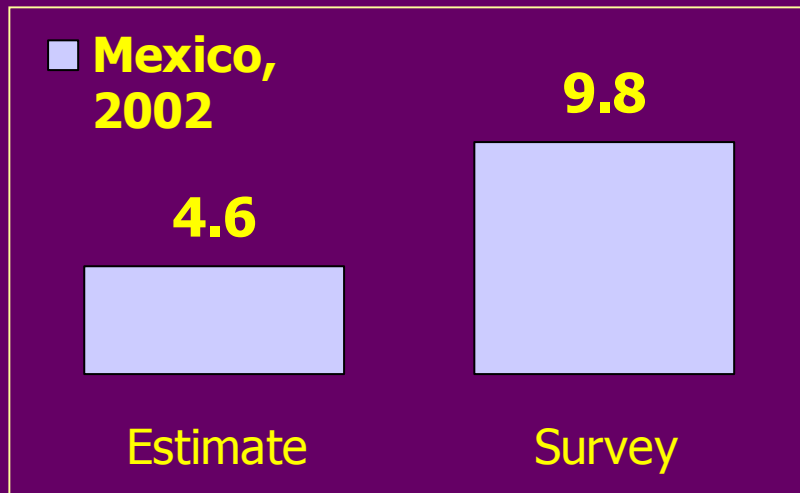
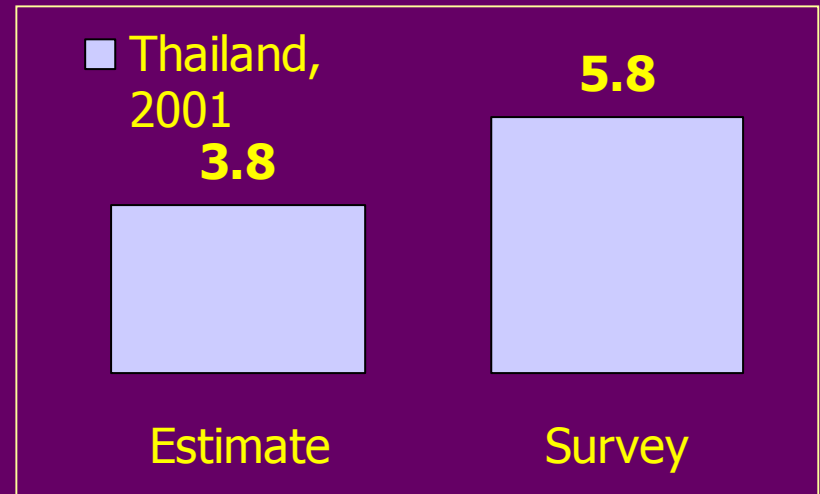
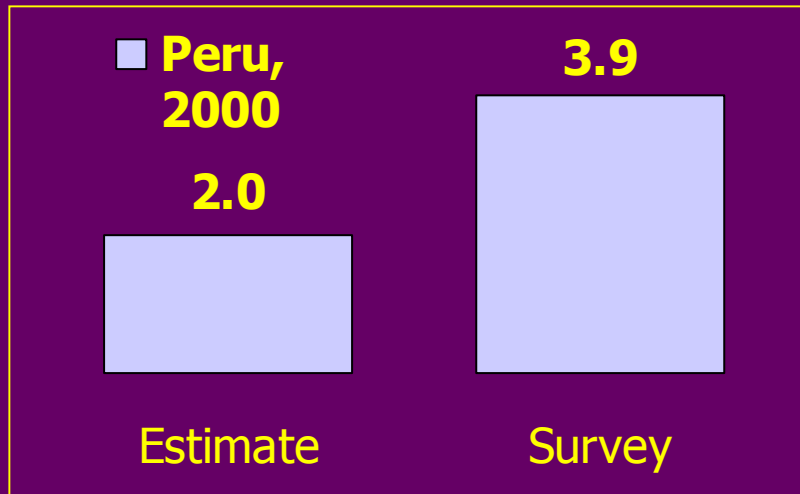
Internet user surveys in Europe



Internet users as % of 14/15/16+ population, 2002

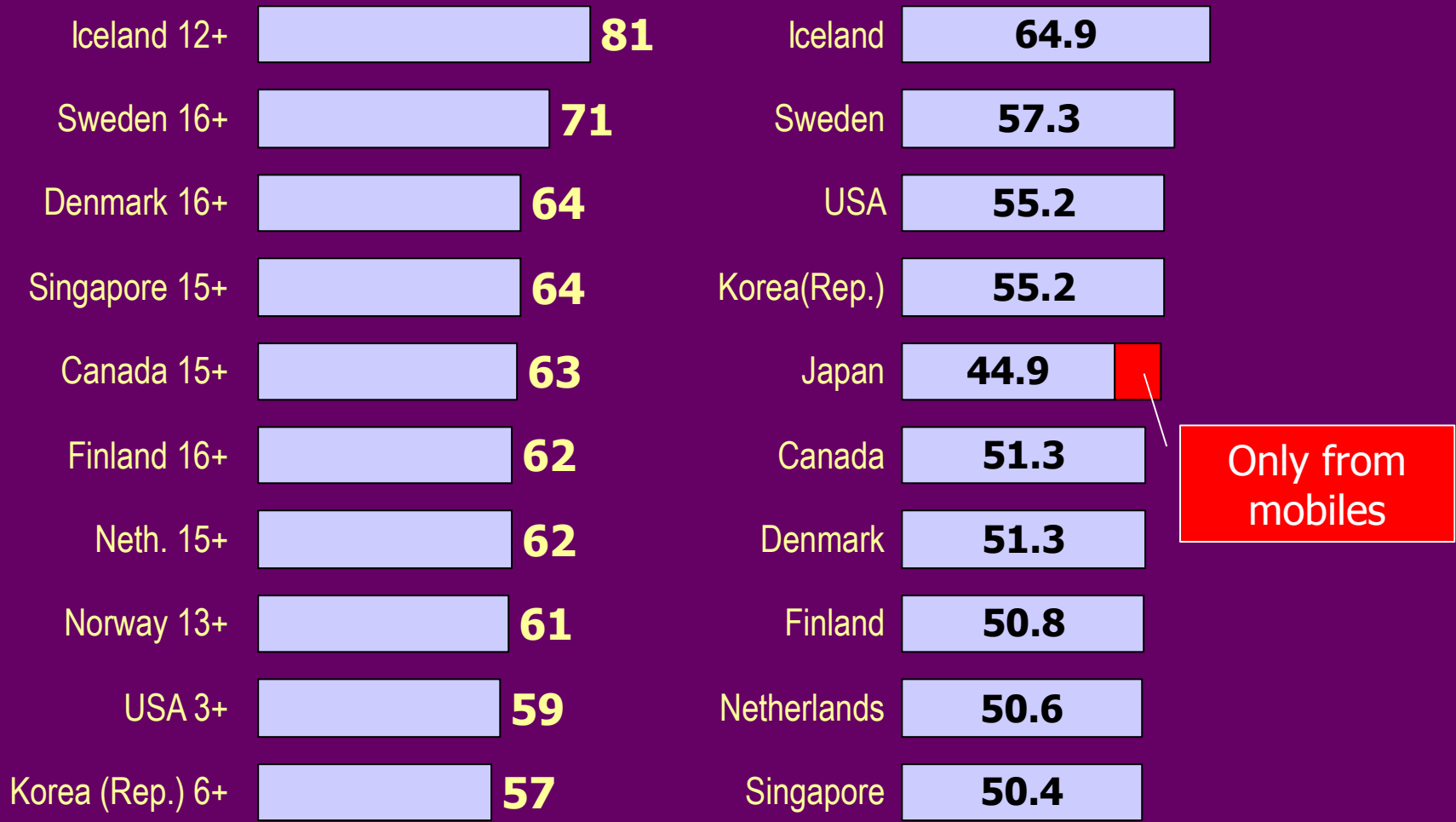
The shrinking digital divide?

Internet users per 100 inhabitants

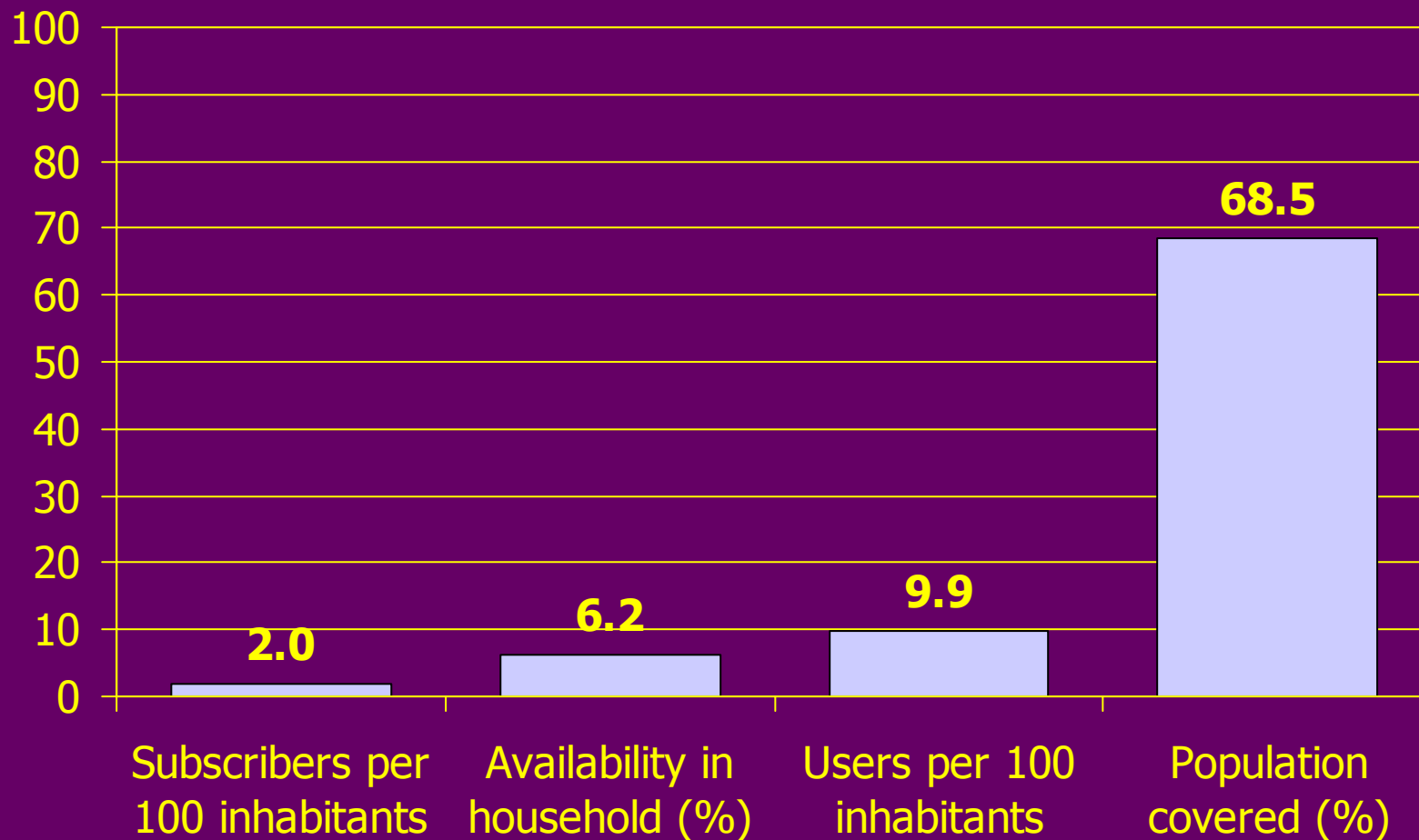


Age and access device

Internet users per 100 inhabitants, 2002

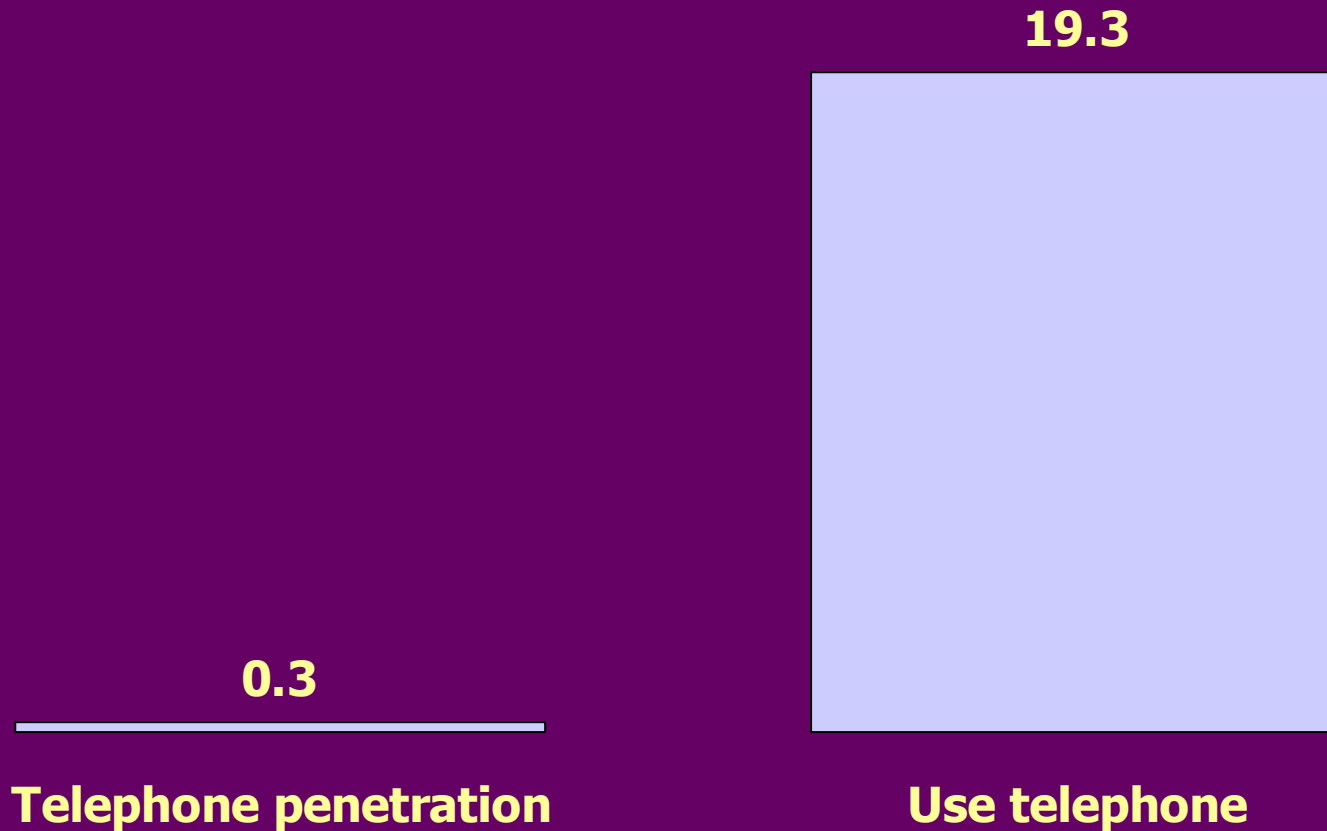


Mexico: Internet subscription, possession, use and access, 2002



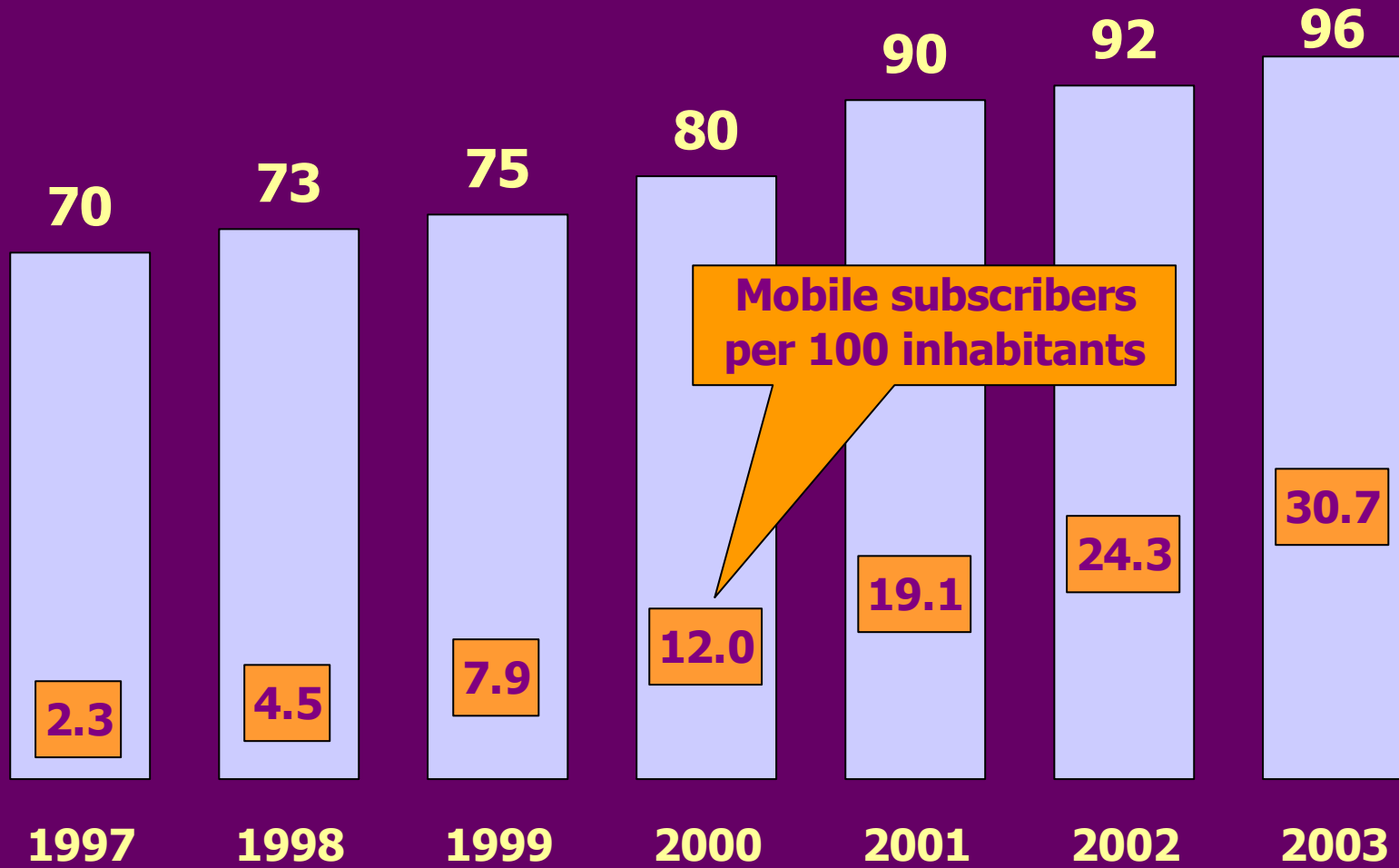
Ethiopia: telephone penetration and use

1998



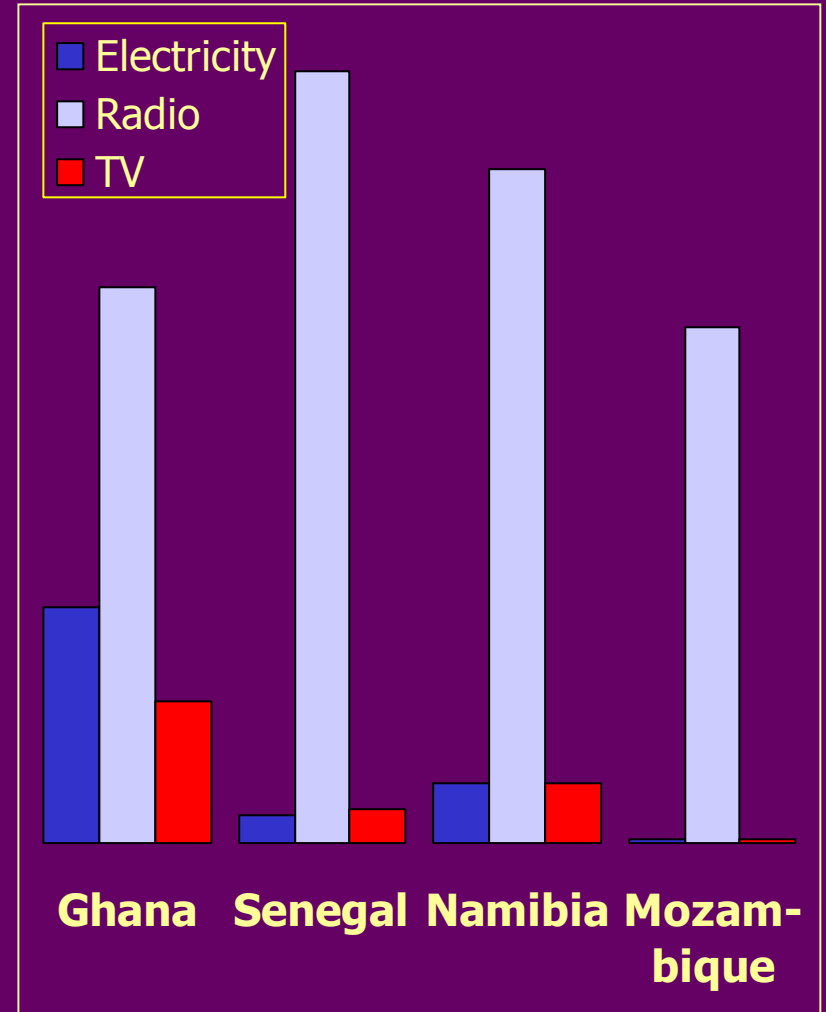
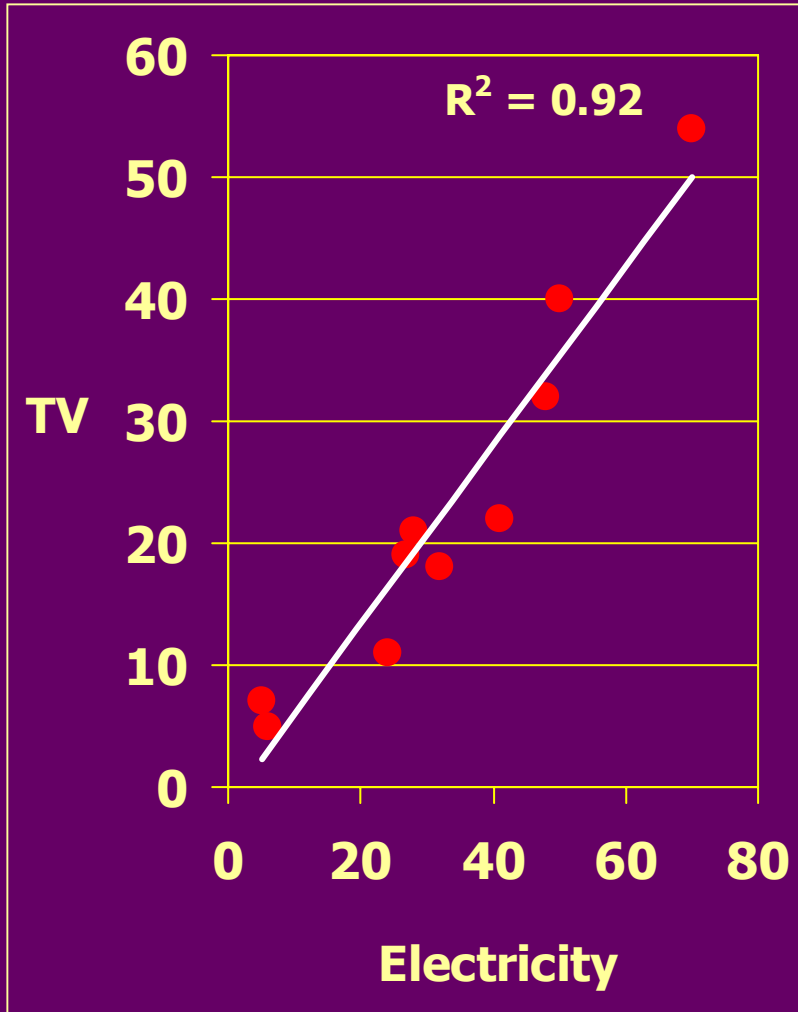
South Africa mobile

Percentage of population covered by mobile cellular service

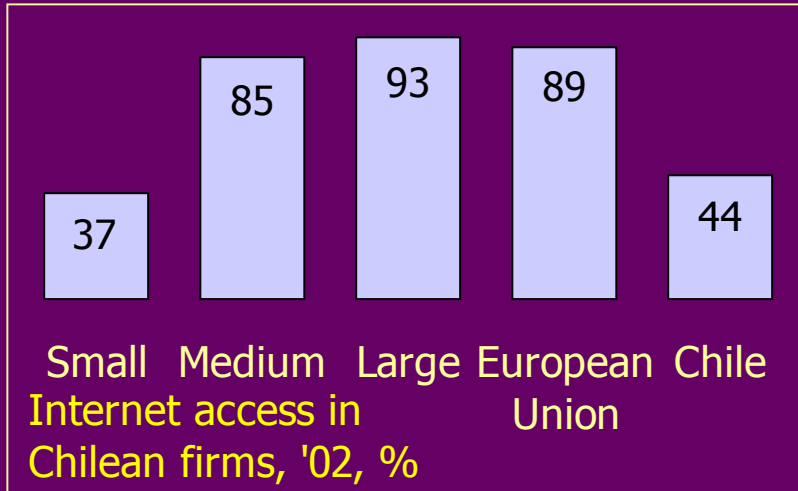


Electricity

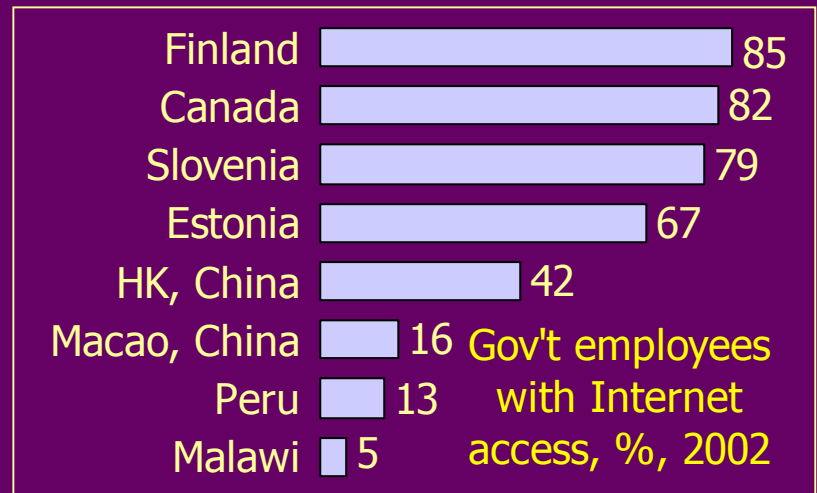
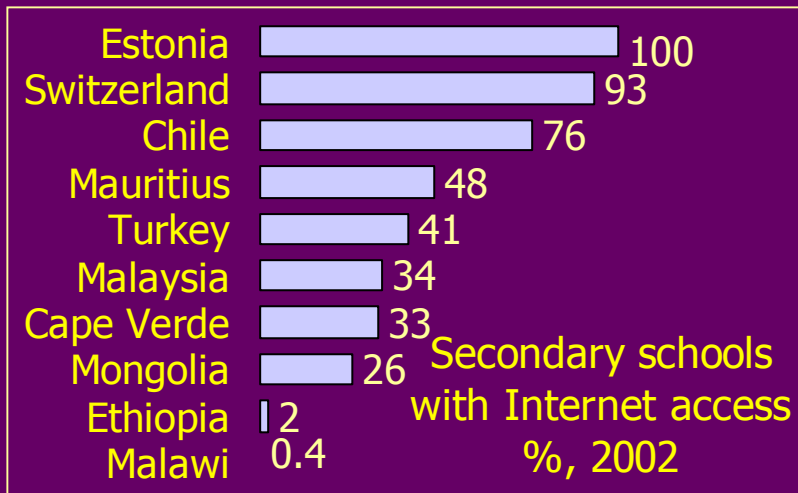
Percentage of households in Africa with electricity, radio, TV



Sector



- Business
- School
- Government



Information & Communication Technology & Millennium Development Goals



MDG Goal 8: Develop a global partnership for development

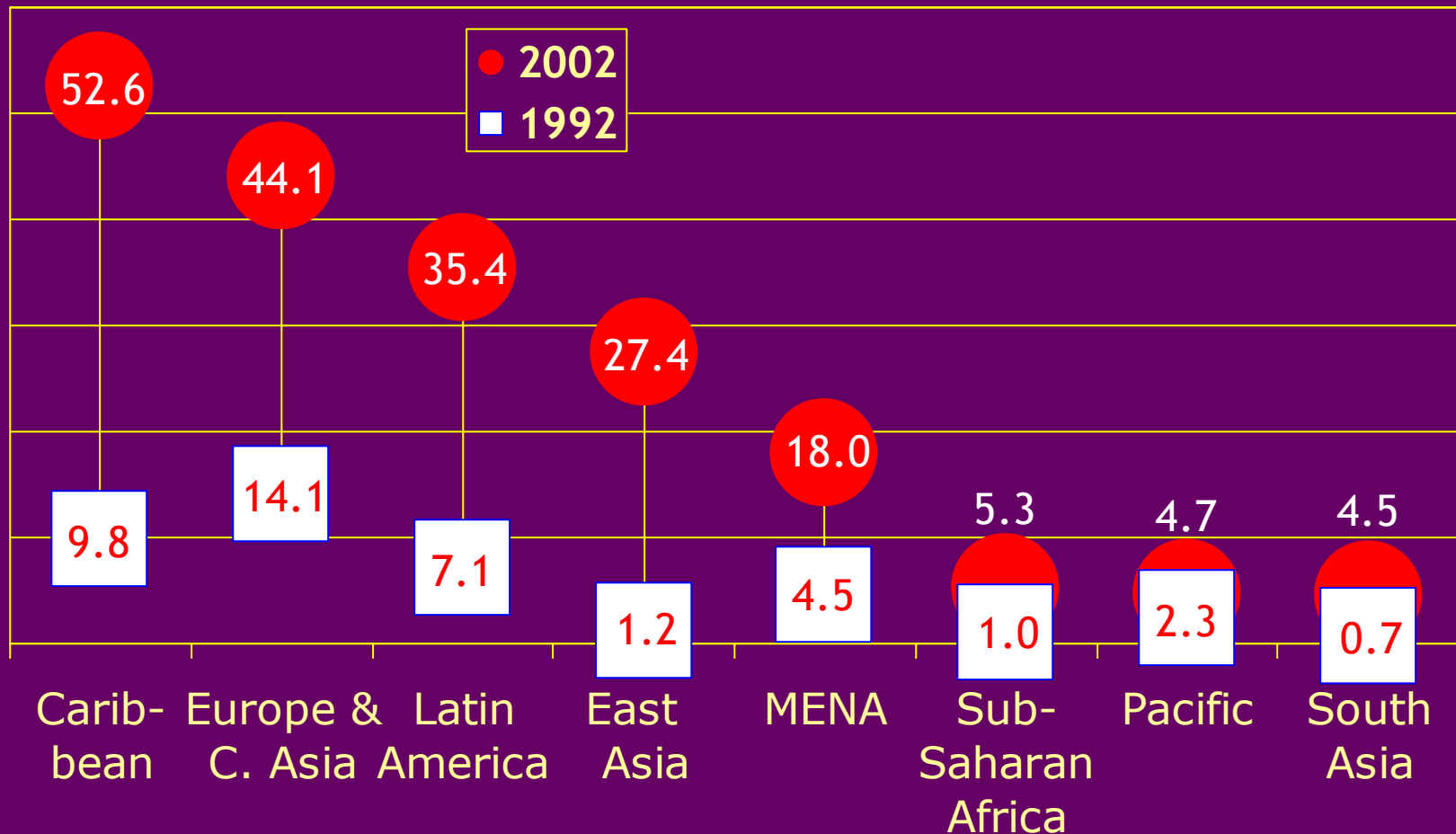


Target 18

“In cooperation with the private sector make available the benefits of new technologies, specifically information and communications.”

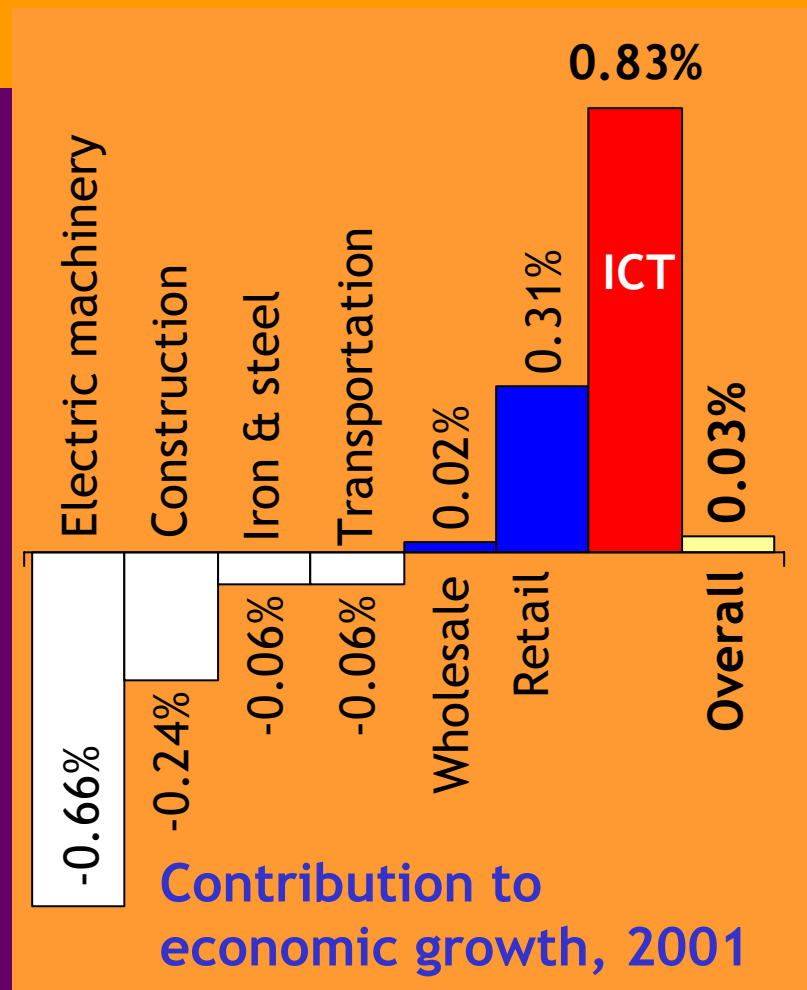
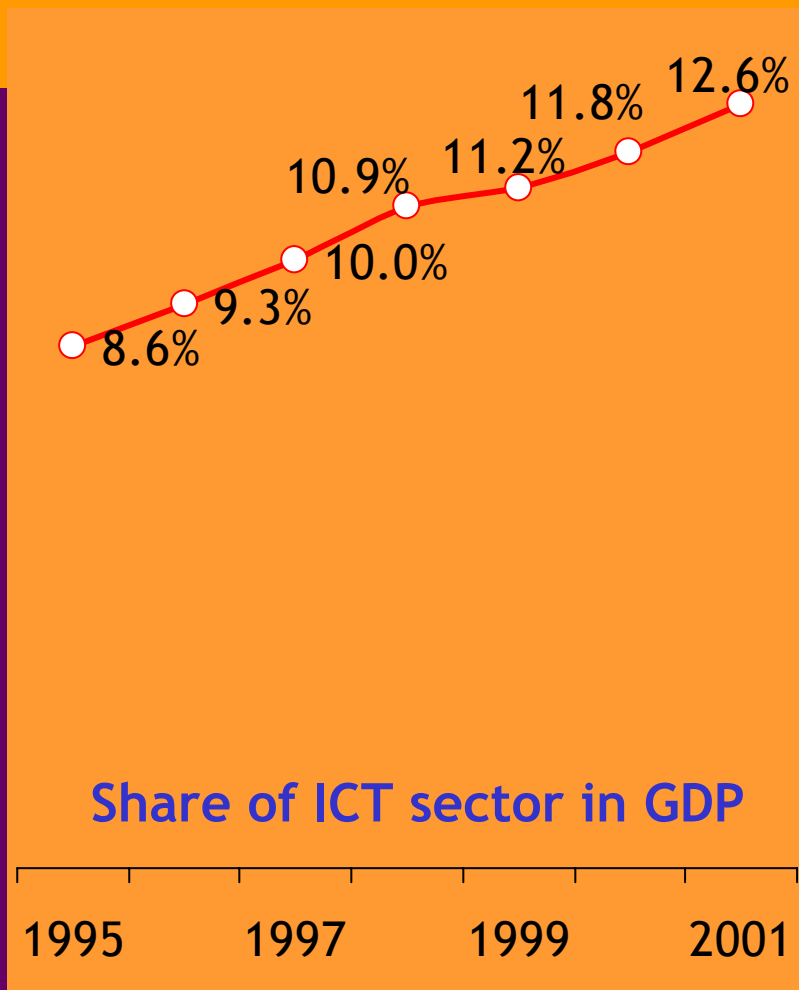
A decade of ICT progress

Total telephone subscribers per 100 inhabitants, developing regions



Note: Developed countries are excluded. For definitions of regions, see: www.worldbank.org/data/countryclass/classgroups.htm.

Macro-economic impact of ICTs: Japan



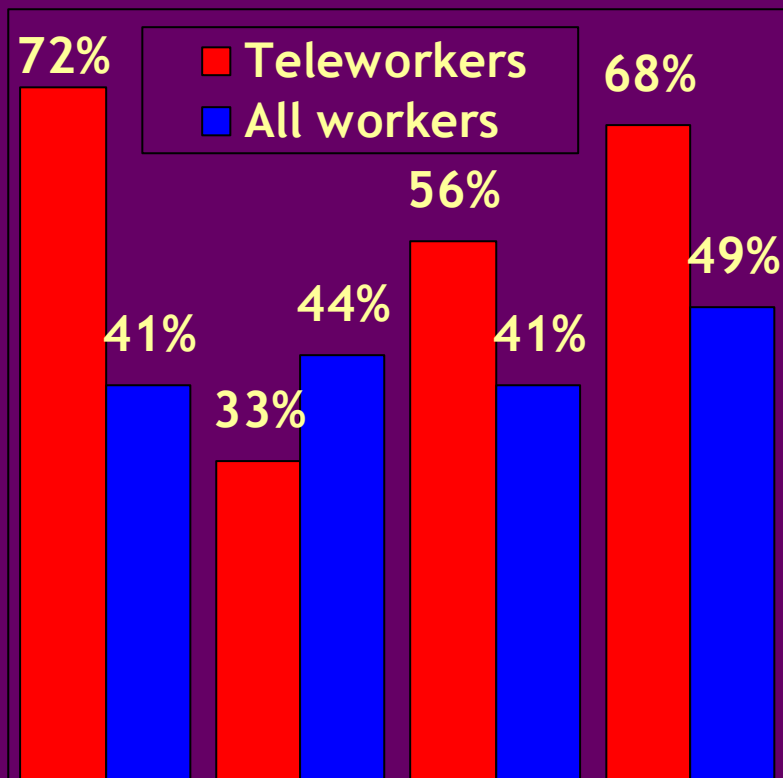
ICT annual growth 1995-2001: 9.3%
(Overall economy only 1.2%)
ICT jobs: 3.8 million
(7.1% of all workers, 3rd largest employer)

1.5 million jobs created
US\$ 206 billion ICT investment
US\$ 335 billion production induced

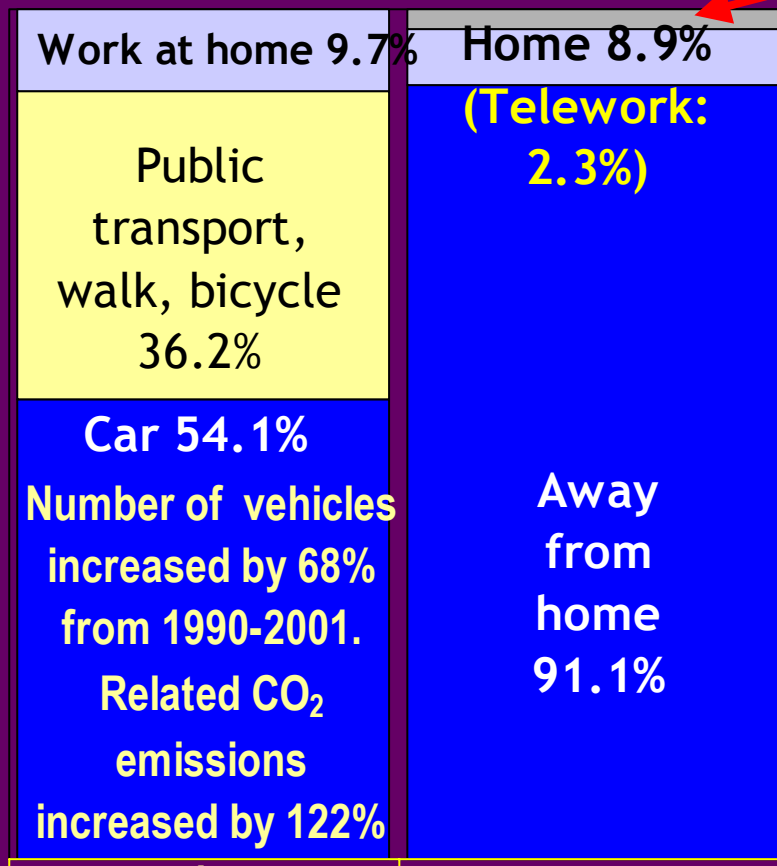
Gender, pollution & telework in Ireland

Telework: "persons who work from home & could not do so without PC with a telecom link."

More teleworkers = more people working at home = less car pollution (MDG #7)



College Women Have children Married



Getting to work Location of work

More tertiary education = more women with small children teleworking (MDG #3)

Impact of ICTs on Millennium Development Goals

1. Eradicate extreme poverty

24

2. Achieve universal primary education

5.7

3. Promote gender equality

0.8

4. Reduce child mortality

-10

5. Improve maternal health

-50

6. Combat HIV/AIDS, malaria and other diseases

143

7. Ensure environmental sustainability

-2

% change

Increase in income of Bangladesh village phone owners

Increase in primary school enrolment in Nepal from teachers trained using ICTs

Increase in female tertiary school enrolment in Australia from online education

Decrease in infant health problems among families using telemedicine in US

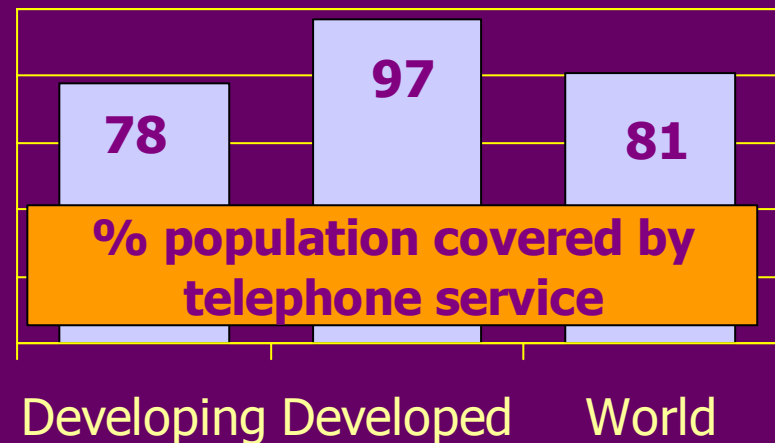
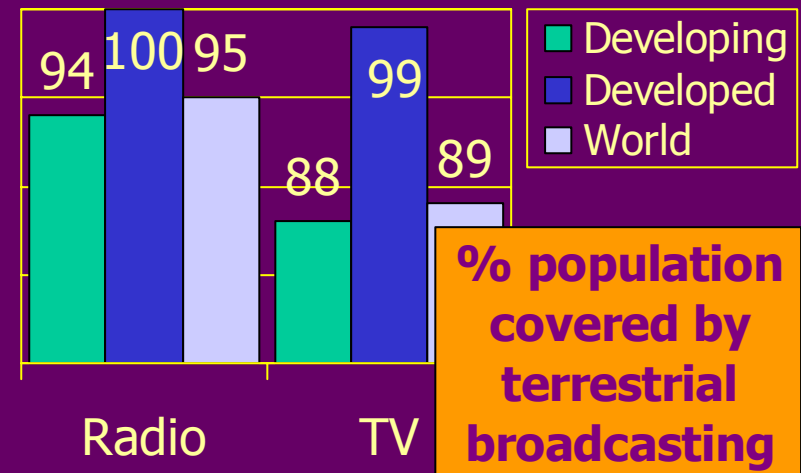
Decrease in maternal mortality following ICT-based program in Uganda

Increase in condom imports in St. Lucia after HIV radio show

Decrease in CO₂ car emissions from telework in Ireland

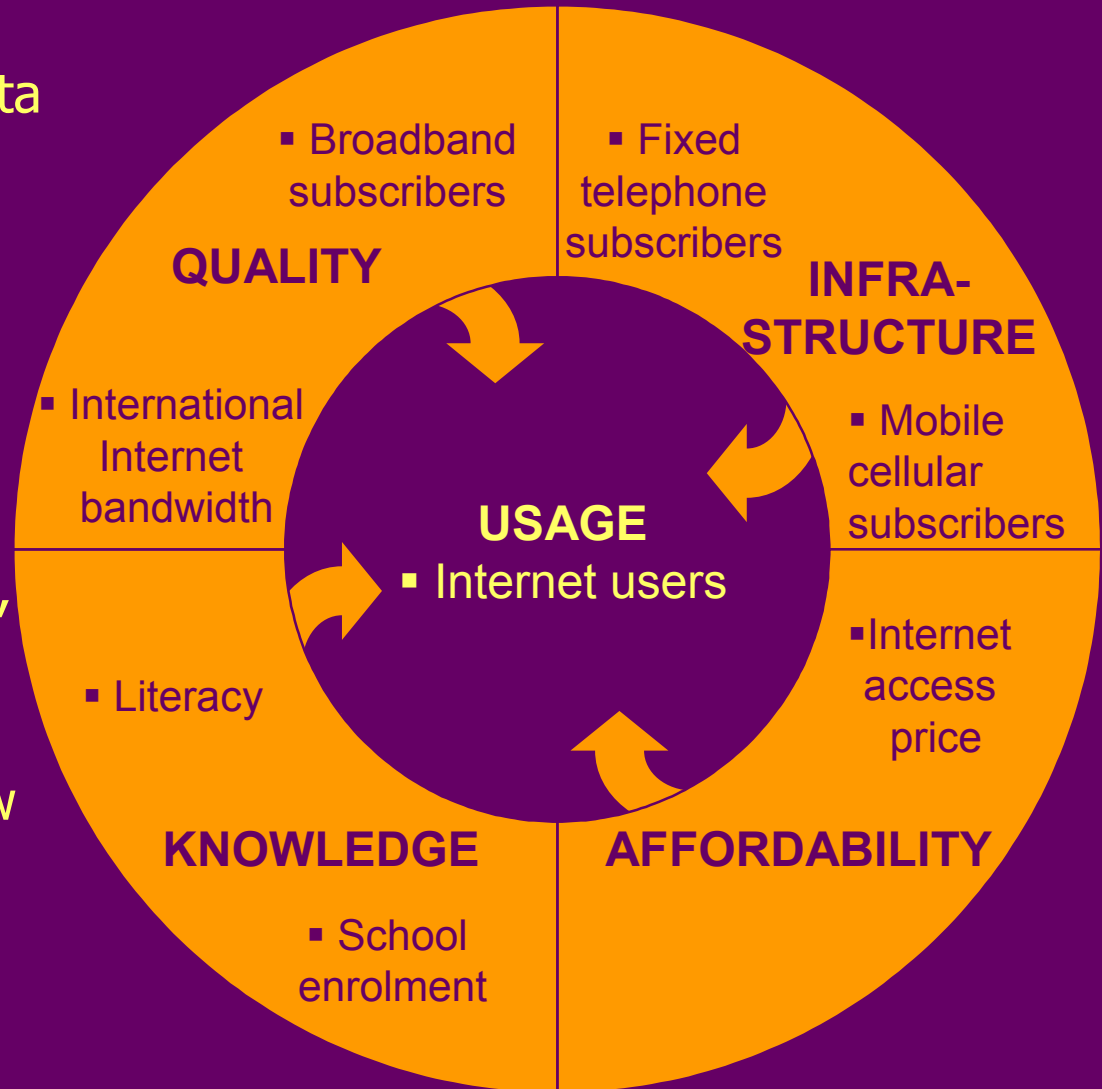
WSIS Targets

1. To connect villages with ICTs and establish community access points
2. To connect ... schools
3. To connect research centres
4. To connect public libraries...
5. To connect health centres & hospitals
6. To connect all local and central government departments & establish websites and e-mail addresses
7. To adapt ... school curricula to meet challenges of the Information Society
8. To ensure that all of the world's population has access to TV & radio
9. To encourage development of content & ... facilitate the presence and use of all world languages on the Internet
10. To ensure that more than half the world's inhabitants have access to ICTs within their reach



Digital Access Index

- ITU expertise:
 - Leading source of ICT data
 - Analysis and research strength
- Inclusive:
 - 178 economies, most of any other ICT index
- Transparent:
 - 5 categories, 8 indicators, easy to decode
- Classifications:
 - High, upper, medium, low
- Flexibility:
 - gender sub-index
 - national indices
 - index over time



e-ITU indicators

Universal service

1. % households with electricity
2. % households with a radio
3. % households with a television
4. % of households with a telephone
5. % of households with a computer
6. % of households with Internet

Universal access

7. % of population covered by mobile
8. % of population that use a computer
9. % of population with access to the Internet

Sector use

10. % businesses with computers
11. % businesses with Internet access
12. % businesses with a website
13. Student to computer ratio
14. % schools with Internet access
15. % gov't offices with Internet access
16. % gov't offices with a website
17. % gov't employees with Internet access

Digital Access Index

18. Fixed subscribers per 100 inhabitants
19. Mobile subscribers per 100 inhabitants
20. Internet tariff as % of per capita income
21. Internet bandwidth per inhabitant
22. Broadband subscribers per 100 inhabitants
23. Internet users per 100 inhabitants

Conclusions

- Follow model surveys to enhance international comparability. Where household or business surveys are already conducted by national statistical offices, include ICT access questions.
- Developed nations and multilateral agencies should assist developing nations to compile ICT indicators
- Government ICT agencies should collect administrative records on ICTs and liaise with their national statistical offices.
- Make available data more visible. Countries should identify a prominent website location for information society statistics.
- At the international level, a portal for information society indicators could be created, containing links to national statistics as well as model questionnaires and methodological information.
International agencies also devote more resources to this area.
- Good statistical practice is important; transparency, clarity, timeliness and relevance are critical.

World Telecom Indicators

1. Basic indicators
2. Main telephone lines
3. Waiting list
4. Telephone network
5. Tele-accessibility
6. Telephone tariffs
7. Cellular subscribers
8. Cellular tariffs
9. ISDN
10. International traffic
11. Telecom staff
12. Telecom revenue
13. Telecom investment
14. Equipment trade
15. Information technology
16. Internet tariffs
17. Broadband
18. Broadcasting
19. Pay TV
20. Projections

181 economies, 2002 data

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World Telecommunication Development Report: *Access Indicators for the Information Society*

Thank you!

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