Measuring Business Access to Information & Communication Technology

Michael.Minges@itu.int



UNCTAD Expert Meeting on Measuring Electronic Commerce as an Instrument for the Development of the Digital Economy

Geneva, 8-10 September 2003

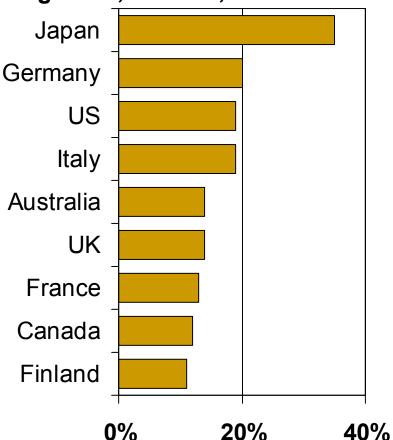
ITU

- UN specialized agency for telecommunications
- Has been collecting statistics for 30 years
- With fusion of telecommunications, computers and broadcasting has expanded coverage to Information and Communication Technology indicators (ICT)
- Has expanded sources from administrative records to include surveys
- Focus on accessibility and e-readiness hence interest in ICT in business sector
- See <u>www.itu.int/ti</u>

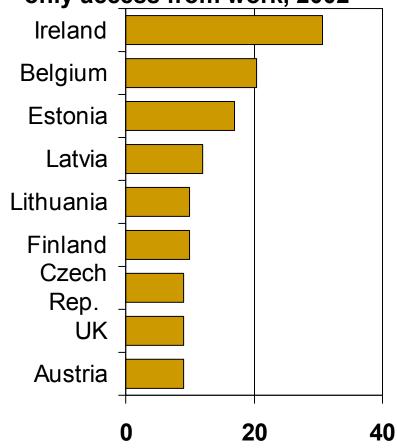


Importance











Source: ITU adapted from OECD, SIBIS.

What to measure

Access	Use
PCs	Type of connection
■Internet access	Uses
	■Web site
E-commerce	Benefits & Barriers
E-commerce -Purchases	Benefits & Barriers
	Benefits & Barriers
-Purchases	Benefits & Barriers
-Purchases	Benefits & Barriers



Methods

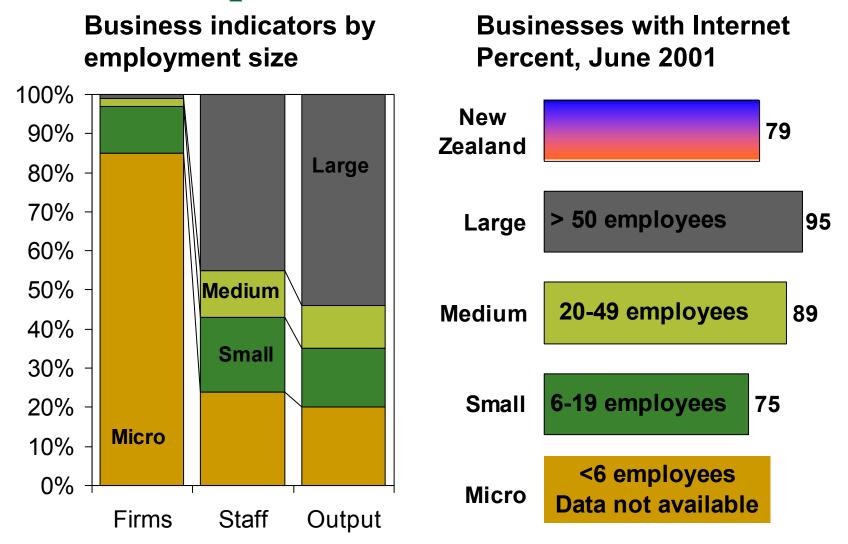
- Sample survey
 - OECD, Model Questionnaire on ICT Usage and Electronic Commerce in Enterprises
 - Eurostat, Pilot Survey
 - **National**

- Universe
 - Size (by employees)
 - Micro (< 5) **~** excluded
 - Small (5-9)
 - Medium (20-99)
 - Large (100+)
 - Industry type
 - Often Primary excluded
 - Manufacturing
 - Services



Often

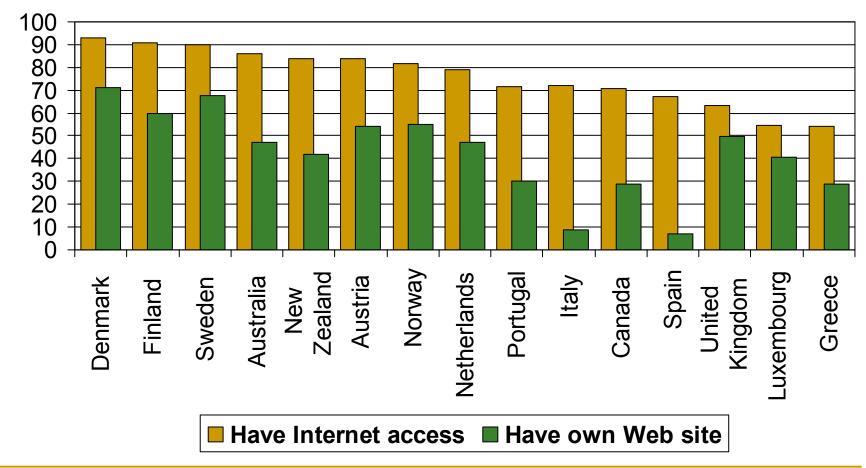
Size, Example from New Zealand





Source: ITU adapted from Ministry of Economic Development (New Zealand), Statistics New Zealand.

Good coverage of developed economies for access indicators



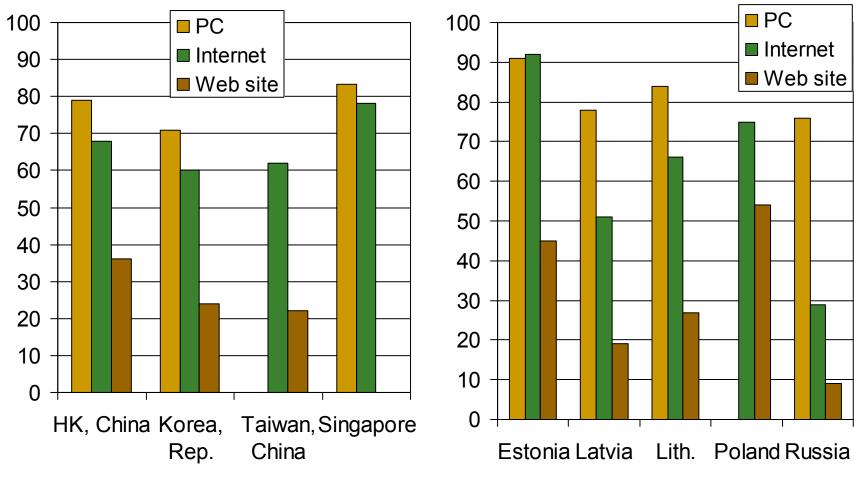


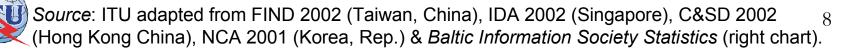
Note: All businesses with 10 or more employees except Canada.

Source: ITU adapted from OECD (beginning 2001).

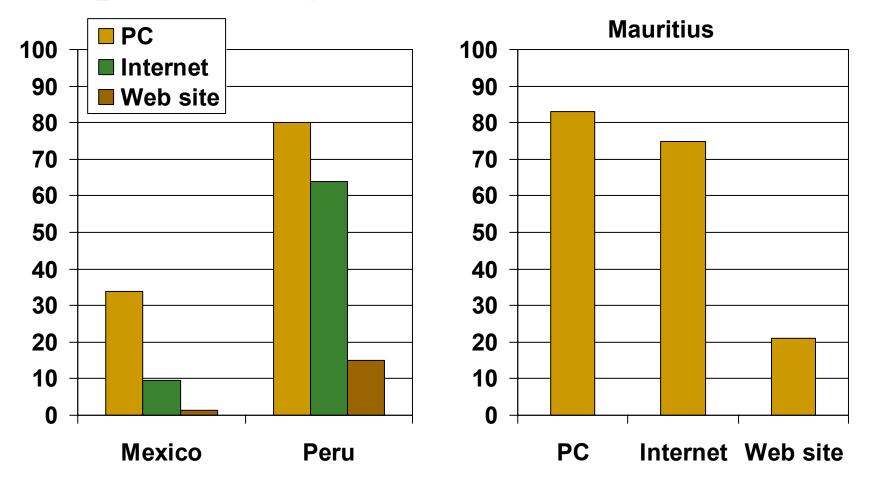
Asian Tigers and some Economies in Transition also have data

Businesses with ICTs, Percent



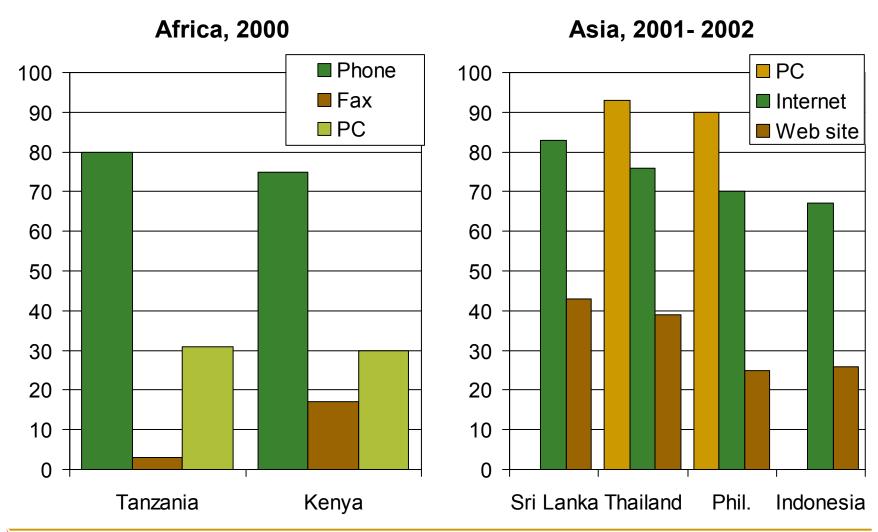


Scarce data for developing nations & comparability questionable





Some studies particularly for SMEs





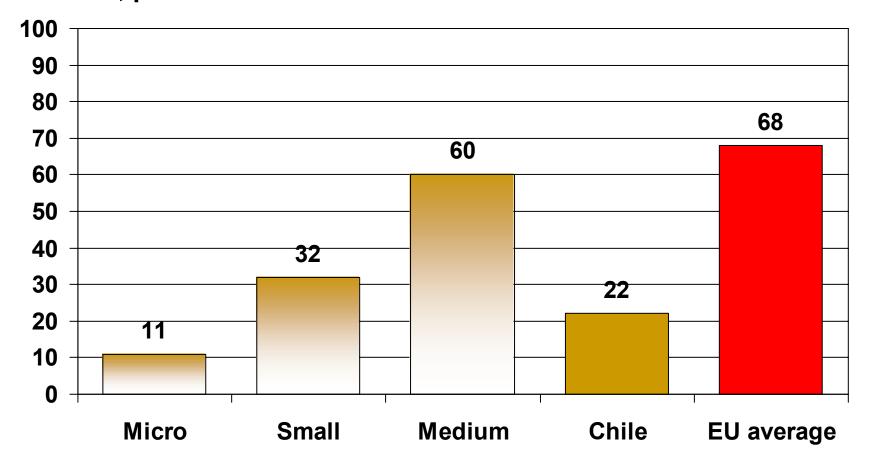
Proxies

- Domain registrations in the .com.cc domain
- Business Internet subscriptions



Business Digital Divide

Internet access in Chilean micro, small and medium sized firms, 2001, percent





Conclusions

- Need to enhance visibility of existing surveys
- Disseminate model questionnaire
- Reinforce statistical capacity
- Focus on access indicators as first step
 - Businesses with PCs
 - Businesses with Internet access
 - Businesses with web page
- Target of at least 100 countries with data by 2005

