

INTERNATIONAL TELECOMMUNICATION UNION Telecommunication Development Bureau Telecommunication Statistics and Data Unit

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New challenges, new indicators: Measuring ICT knowledge

International Telecommunication Union (ITU) World Telecommunication/ICT Indicators Meeting Geneva, Switzerland 15-17 January 2003 Vanessa.Gray@itu.int









How to measure ICT knowledge?

 ICT literacy would be an ideal indicator but few countries measure this



Four groups of indicators School enrolment (3) – Primary Education - Secondary - Tertiary Schooling Educational attainment (3) - Primary Language - Secondary Reading – Tertiary • Newspaper readership (1) Language (2) - Diversity Ability to understand other languages





Educational attainment

- Just as important as school enrolment
- Enrolment measures potential whereas attainment measures where a country is at now
- Strong link between educational attainment and Internet use





Newspaper readership

- Conventional measure is daily newspaper circulation
- Lack of information
 - UNESCO data tends to be out of date and incomplete
 - Most national statistical agencies do not collect newspaper data
 - Some advertising / newspaper associations collect newspaper data
- Ideal indicator would be '% of population that reads a newspaper'



from national statistical agencies, UNESCO, industry associations.



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Application linguistics

Language availability of Microsoft products

Hotmail	Messenger	Explorer	
Brazilian	Arabic, Chinese	Arabic, Brazilian	
Portuguese, Chinese	(Simplified), Chinese	Portuguese, Czech,	
(Simplified), Chinese	(Traditional), Czech,	Chinese	
(Traditional),	Danish, Dutch,	(Simplified),	
English, French	English, Finnish,	Chinese	
German, Italian	French, German,	(Traditional),	
Japanese, Korean	Greek, Hebrew,	Danish, Dutch,	
and	Hungarian, Italian,	English, Finnish,	
Spanish	Japanese, Korean,	French, German,	
	Norwegian, Polish,	Greek, Hebrew,	
	Portuguese	Hungarian, Italian,	
No Khmer	(Brazilian),	Japanese, Korean,	
Indonesian	Portuguese	Norwegian, Polish,	
Loction Thei	(Standard), Russian,	Portuguese,	
	Slovak, Slovenian,	Russian, Spanish,	
vietnamese	Spanish, Swedish and	Swedish and	
	Turkish	Turkish	



Understanding other languages

- The ability to understand an "Internet" language, especially English, enhances ICT usage
- Ability to understand popular languages also increases amount of content users can access







đ)	Example from Singap	ore		
	Schooling	Gross Enrollment Ratio (%) Primary Secondary Tertiary	88 97 99 45	0.97 0.99 0.45	Source: IT
	Education	Educational attainment (Age 15+) None Primary Secondary Tertiary	7.5 6.2 45.1 31.3	0.31	U adapted from \$
Read	Reading	Daily newspaper circulation per 100 population	38.4	0.38	Statis
	Language	<i>Spoken (Age 5+):</i> Chinese English Malay Tamil Others Diversity Index	58.8 23.0 14.1 3.2 0.9 0.58	0.42	stics Singapore.
		<i>Literacy in another language:</i> English	70.9	0.71	
		Score		4.24/7	



Conclusions

- Need to collect data on at least nine knowledge indicators, perhaps through household surveys
- Ideally, these indicators would be tied to
 Internet user surveys
- Governments should unify and disseminate these indicators along with traditional ICT statistics
- More work on definitions, relation to ICT take-up and international comparisons