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Information and Communication Technologies & the Millennium Development Goals



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ICTs & MDGS

- ICTs are part of the MDGs (Goal 8, Target 18, Indicators 47-48)
- ICTs have an impact on achieving other MDGs
- ICTs can be bad for MDGs
- MDGs have an impact on use of ICTs



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."



Indicators for Target 18

- Total number of telephone subscribers per 100 inhabitants
- Personal computers per 100 inhabitants
- Internet users per 100 inhabitants

- ITU charged with providing indicators to help measure this target
- Of all the different targets, number 18 is the most vague (which ICTs should be made available, to whom and by when?)
- Trade-off between the ideal indicator and widespread availability
- Number of indicators for the MDG targets had to be kept to a manageable amount
- The indicators are targeted around ICTs such as mobile phones, computers and the Internet, since the goal states: "...benefits of *new* technologies"



A decade of ICT progress

Total telephone subscribers per 100 inhabitants, developing regions



Note: Developed countries are excluded. For definitions of regions, see: <u>www.worldbank.org/data/countryclass/classgroups.htm</u>. *Source:* ITU World Telecommunication Indicators Database.



Digital Access Index





Digital Access Index

- Inclusive (178 economies, most of any other ICT index)
- Transparent (5 categories, 8 indicators, easy to decode)
- 4 DAI classifications:
 - High, upper, middle, low
- Research into gender sub-index, national indices and index over time





How ICTs can help achieve the MDGs

Goal/Target	Role of ICTs	
1. Eradicate extreme poverty and hunger	Increase access to market information and reduce transaction costs for poor farmers and traders	
2. Achieve universal primary education	Increase supply of trained teachers through ICT-enhanced distance training	
3. Promote gender equality and empower women	Deliver educational and literacy programmes specifically targeted to poor girls and women using appropriate technologies	
 4. Reduce child mortality 5. Improve maternal health 6. Combat HIV/AIDS, malaria, and other diseases 	Increase access of rural care-givers to specialist support and remote diagnosis Enhance delivery of basic and in-service training for health workers Increase monitoring and information-sharing on disease and famine	
7. Ensure environmental sustainability	Remote sensing technologies and communications networks permit more effective monitoring, resource management, mitigation of environmental risks	
Source: ITU adapted from "	Source: ITU adapted from "The significance of information and communication technologies	

Source: ITU adapted from "The significance of information and communication technologies for reducing poverty." Department for International Development (United Kingdom). <u>http://www.dfid.gov.uk/Pubs/files/ict_poverty.pdf</u>

Macro-economic impact of ICTs: Japan





Micro-economic impact of ICTs: Bangladesh

Cost of village phone and alternatives, US\$

Number of months in which poor phone-using families eat well (months per year)



Gender, pollution & telework in Ireland

Telework: "persons who work from home and could not do so without the use of a computer with a telecommunications link."

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



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



Possible indicators to measure impact of ICTs on MDGs



In Closing...

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- Access Indicators for the Information Society
 Chapter 4: ICTs and the Millennium Development Goals
 Launch 8 December 2003
 - World Summit on the Information Society (WSIS) [Geneva, December 2003]

2003 World Telecommunication

Development Report

- Main event [December 10-12] http://www.itu.int/wsis
- Statistical side event [December 8-9] http://www.unece.org/stats/docum ents/2003.12.wsis.htm
- 2004: Statistical capacity building through two regional workshops

world summit on the information society Geneva 2003 - Tunis 2005

