PARTNERSHIP ON
MEASURING ICT
FOR DEVELOPMENT

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Partnership on Measuring ICT for Development

Atelier de travail pour la mise en oeuvre d'un Observatoire National des Technologies de l'Information et de la Communications (ONTIC)

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Rabat, Maroc

Vanessa Gray

Division des informations et statistiques sur le marché (STAT)

Bureau de développement des télécommunicaitons (BDT)

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The *Partnership* in brief

- Global initiative to improve availability of comparable ICT statistics at the global level

- Response to World Summit on the Information Society (WSIS) call to measure the information society

- Five years of cooperation (launched in June 2004)
  - ➤ Common standards and methodologies: core list of ICT indicators
  - ➤ Encourage national cooperation for the collection of ICT statistics and enhance capacity of NSOs
  - ➤ Global database for ICT indicators

- Includes key stakeholders working on ICT statistics

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11 Members

International level

- ITU
- OECD
- UNCTAD
- UNDESA*
- UNESCO Institute for Statistics
- World Bank

Regional level

- ECA
- ECLAC
- ESCAP
- ESCWA
- Eurostat

**Strong institutional commitment
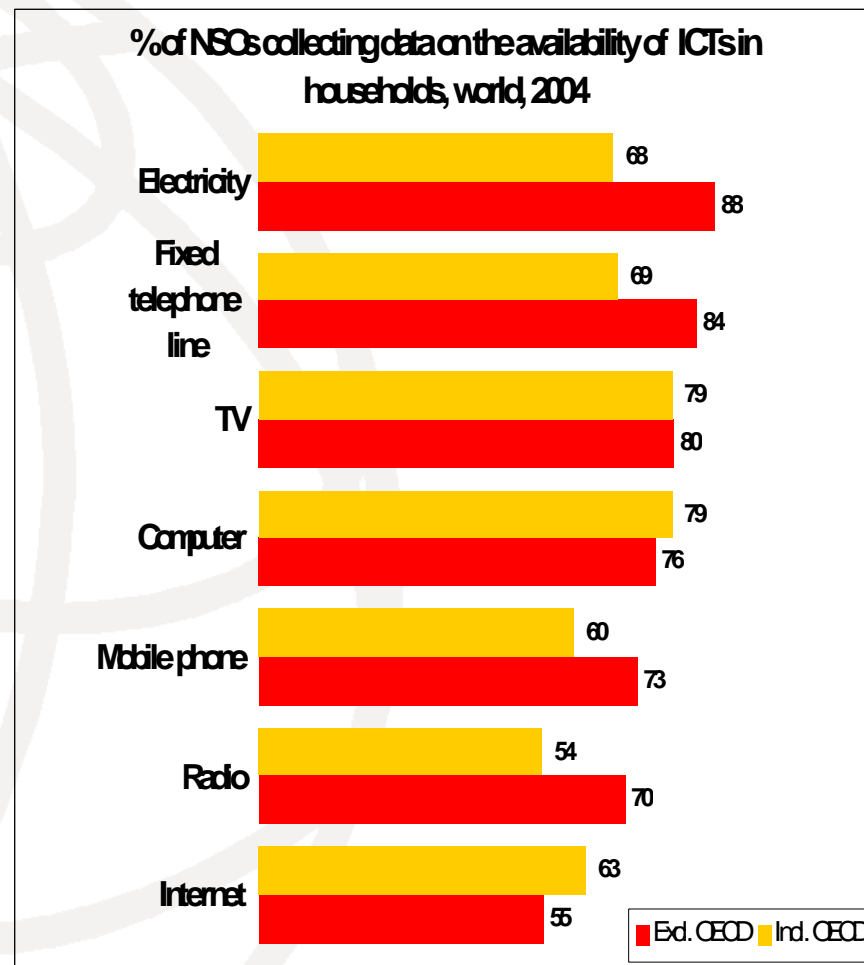Memorandum of Understanding**

* Joined in May 2009; UNICT Task Force member until end 2005

Partnership objectives & achievements

- Identification of data availability and gaps
  - Survey data
  - Lack of national cooperation

- Establishment of core list of ICT indicators

- Development of methodological material on the collection of ICT statistics (publications)

- Capacity building/training

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Assessment

- 2004 global stocktaking exercise through metadata questionnaire

  - To assess the availability of ICT statistics and common definitions

  - To identify best practices and needs of NSOs

- Results

  - Few developing countries collect official ICT data through surveys (NSO)

  - Administrative data more widely available

% of NSOs collecting data on the availability of ICTs in households, world, 2004

	Exd. OECD	Ind. OECD
Electricity	88	68
Fixed telephone line	84	69
TV	80	79
Computer	76	79
Mobile phone	73	60
Radio	70	54
Internet	55	63

Core list of ICT indicators

- **Established through extensive consultation process**
  - Metadata survey results
  - Regional measurement activities
  - Based on policy needs and presented to policy makers
- **March 2007: Core list endorsed by the 38th session of the UN Statistical Commission**
- **Revised in 2008**

Core list of indicators

Type	Number of indicators	Reference indicator
ICT infrastructure and access	10	-
ICT access and usage by households and individuals	12	1
ICT access and usage by businesses	12	-
ICT sector/trade in ICT goods	4	-
ICT in education	8	1
Total	**46**	2

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Basic ICT infrastructure & access indicators (ITU)

A-1   Fixed telephone lines per 100 inhabitants

A-2   Mobile cellular subscribers per 100 inhabitants

A-3   Fixed Internet subscribers per 100 inhabitants

A-4   Fixed broadband Internet subscribers per 100 inhabitants

A-5   Mobile broadband subscribers per 100 inhabitants

A-6   International Internet bandwidth per inhabitant
        (bits/second/inhabitant)

A-7   Percentage of population covered by mobile cellular telephone
        network

A-8   Fixed broadband Internet access tariffs (per month) in $US, and as
        a percentage of per capita income

A-9   Mobile cellular prepaid tariffs, in $US, and as a percentage of
        monthly per capita income

A-10   Percentage of localities with public Internet access centres (PIACs)
        by number of inhabitants

Indicators on access to, and use of, ICT by households and individuals (ITU)

HH-1   Proportion of households with a radio

HH-2   Proportion of households with a TV

HH-3   Proportion of households with a telephone (fixed/mobile/both)

HH-4   Proportion of households with a computer

HH-5   Proportion of individuals that used a computer

HH-6   Proportion of households with Internet access at home

HH-7   Proportion of individuals that used the Internet

HH-8   Location of individual use of the Internet

HH-9   Internet activities undertaken by individuals

HH-10 Proportion of individuals with use of a mobile cellular telephone

HH-11 Proportion of households with access to the Internet by type of access

HH-12 Frequency of individual use of the Internet

Indicators on use of ICT by businesses (UNCTAD)

B-1   Proportion of businesses using computers

B-2   Proportion of persons employed routinely using computers

B-3   Proportion of businesses using the Internet

B-4   Proportion of persons employed routinely using the Internet

B-5   Proportion of businesses with a web presence

B-6   Proportion of businesses with an intranet

B-7   Proportion of businesses receiving orders over the Internet

B-8   Proportion of businesses placing orders over the Internet

B-9   Proportion of businesses using the Internet by type of access

B-10   Proportion of businesses with a LAN

B-11   Proportion of businesses with an extranet

B-12   Proportion of businesses using the Internet by type of activity

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Indicators on the ICT sector and trade in ICT goods (UNCTAD)

ICT1   Proportion of total business sector workforce involved in the ICT sector

ICT2   ICT sector share of gross value added (expressed as a percentage of total business sector value added)

ICT3   ICT goods imports as a percentage of total imports

ICT4   ICT goods exports as a percentage of total exports

Proposed core indicators for Measuring ICT in education (UIS)

ED1   Proportion of schools with a radio used for educational purposes

ED2   Proportion of schools with a TV used for educational purposes

ED3   Proportion of schools with a telephone communication facility

ED4   Student-to-computer ratio

ED5   Proportion of schools with Internet access, by type

ED6   Proportion of students who have access to the Internet at school

ED7   Proportion of students enrolled by gender at the tertiary level in ICT-related fields (for ISCED levels 5 and 6)

ED8   Proportion of ICT-qualified teachers in primary and secondary schools

EDR1   Proportion of schools with electricity

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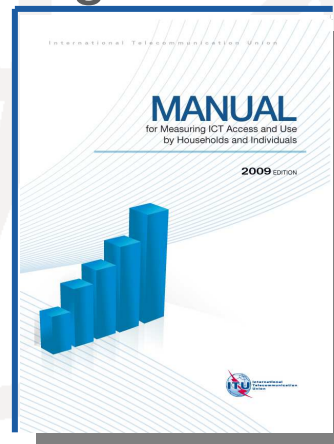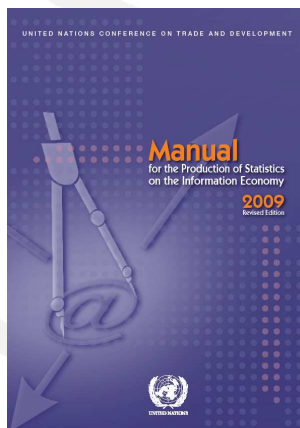ITU International
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The core list ….

- …is not exhaustive (inclusion of e-government indicators)

- …should be used as minimum list when designing or redesigning the data collection

- …is aimed at providing a common platform for minimal inter-country comparability

- …is to be reviewed regularly to ensure relevance and usability

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Capacity building

- Questionnaire on ICT statistical capacity building needs in countries (45 requests from NSOs)

- Roster of experts (mainly NSOs from OECD)

- Coordination of technical assistance activities among Partners, especially at country level (technical advice, training, workshops)

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Capacity building

- Technical assistance and advisory missions
- Regional and national workshops and seminars
- Guiding materials:
  - Two Manuals and training courses

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Recommendations

- National cooperation between policy makers and NSO is key to success

- Incorporate ICT surveys into national statistical programmes

- Make sure survey-based indicators are internationally comparable

  - Use the resources of the Partnership to advance work in ICT statistics (core list of ICT indicators, Manuals)