



INTERNATIONAL TELECOMMUNICATION UNION

**TELECOMMUNICATION
DEVELOPMENT BUREAU**

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7TH WORLD TELECOMMUNICATION/ICT INDICATORS MEETING, CAIRO, EGYPT, 3-5 MARCH 2009

SOURCE: ITU

TITLE: Measuring the Information Society – The ICT Development Index, 2009 Edition

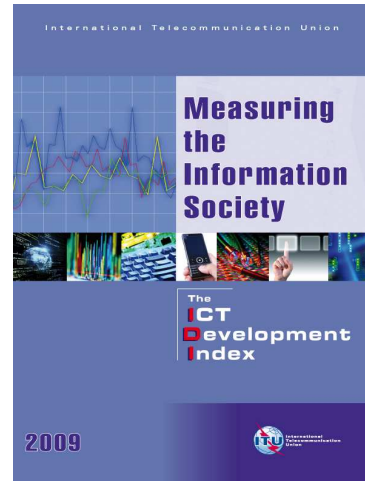


Committed to Connecting the World



**7th World
Telecommunication/
ICT Indicators
Meeting (WTIM)**
Cairo, Egypt
3-5 March 2009

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Head, Market Information
and Statistics Division



This presentation

- Development of the ITU single index
- Objectives and methodology of the IDI
- IDI main results
- Objectives and methodology of the ICT Price Basket
- ICT Price Basket main results
- Conclusions

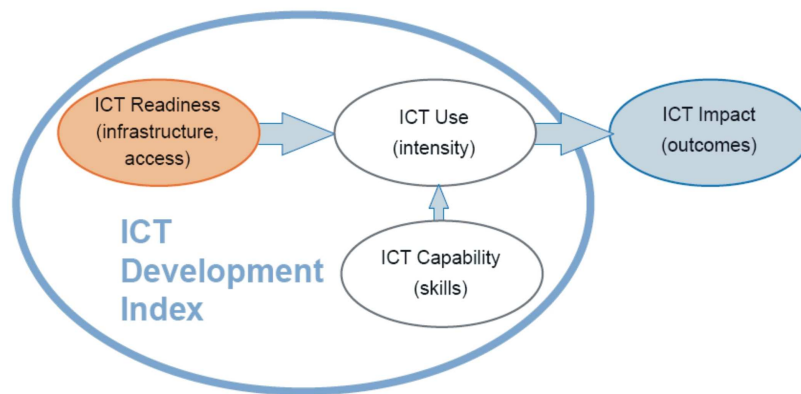
Towards an ITU Single Index

- Goal: merge ICT-OI and DOI into a single ICT index
- Mandates: WTDC-06, ITU Plenipotentiary 2006, WSIS
- Process: outcomes of 6th WTIM 2007, single index forum, experts
- Role of ITU: respect for neutrality, use of standard statistical methods

Main objectives of index

- Track ICT progress *over time*
- Address all countries - *global* index
- Measure *digital divide*
- Capture ICT *development potential*

Three stages in the evolution towards an information society



IDI Methodology - steps

- Selection of indicators: objectives and conceptual framework, availability of data, results of PCA, recommendations of experts
- Normalization of data: distance to reference value (goalpost)
- Rescaling of data (1-10)
- Weighting (incl. rounded PCA results)

**Key: easy replication of the
computation of the index**

IDI Data series

- 11 indicators
- Two years: 2002 and 2007
- 154 economies

ITU approached all countries to verify data to be included in the IDI (November 2008)

ICT Development Index

ICT access	Ref. Value	(%)
1. Fixed telephone lines per 100 inhabitants	60	20
2. Mobile cellular telephone subscriptions per 100 inhabitants	150	20
3. International Internet bandwidth (bits) per Internet user	100'000*	20
4. Proportion of households with a computer	100	20
5. Proportion of households with Internet access at home	100	20

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ICT use	Ref. Value	(%)
6. Internet users per 100 inhabitants	100	33
7. Fixed broadband Internet subscribers per 100 inhabitants	60	33
8. Mobile broadband subscriptions per 100 inhabitants	100	33

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ICT skills	Ref. Value	(%)
9. Adult literacy rate	100	33
10. Secondary gross enrolment ratio	100	33
11. Tertiary gross enrolment ratio	100	33

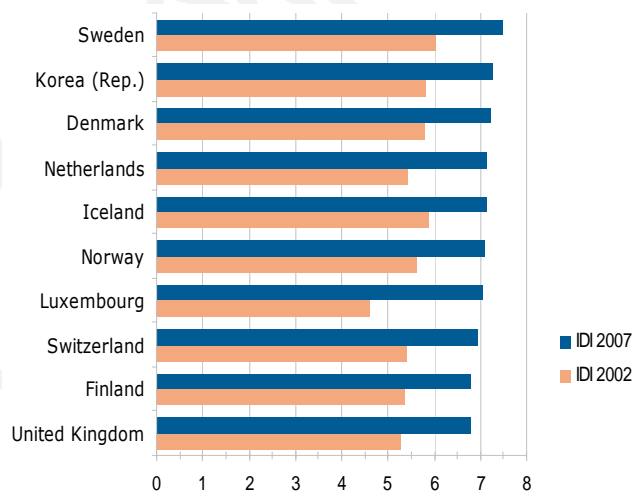
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**ICT
Development
Index**

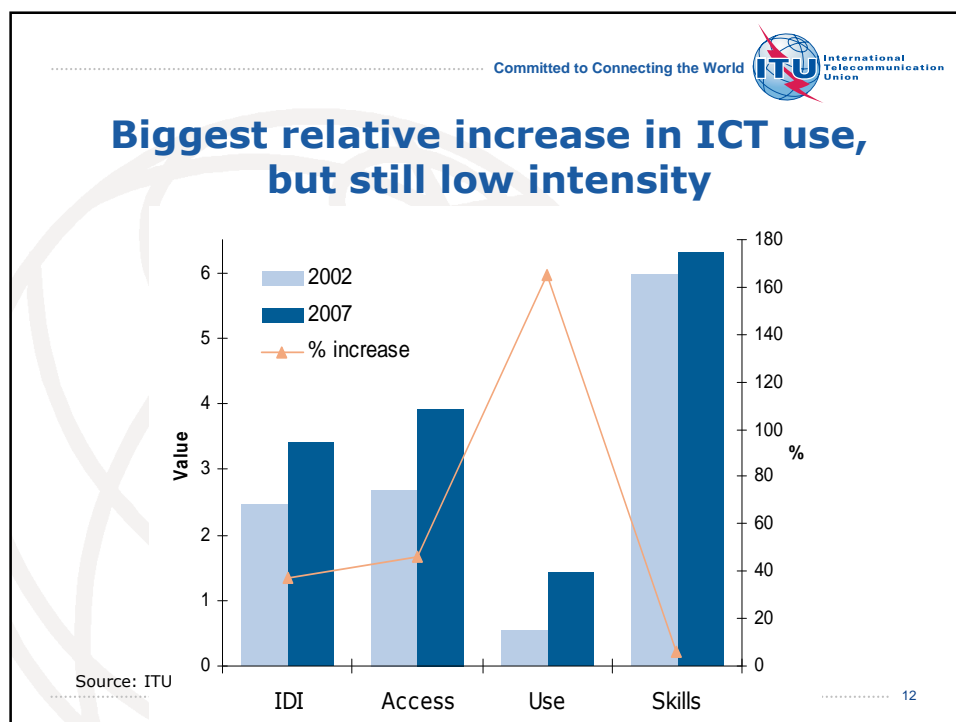
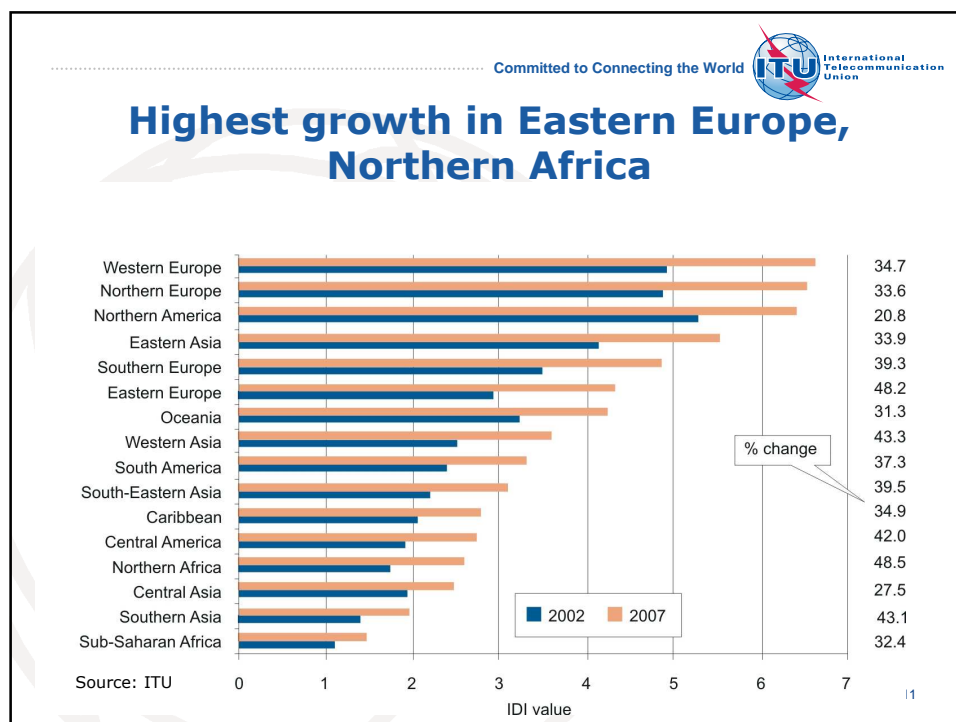
IDI main results

- Top countries and regions
- Most dynamic countries
- By level of development
- Link between ICT levels and GNI per capita
- By sub-index (access, use, skills)
- Digital divide

Top ten IDI countries mainly from Europe

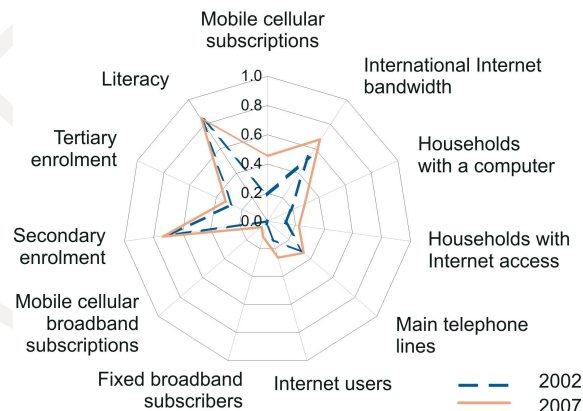


Source: ITU



Highest average increase on mobile cellular subscriptions

Global averages

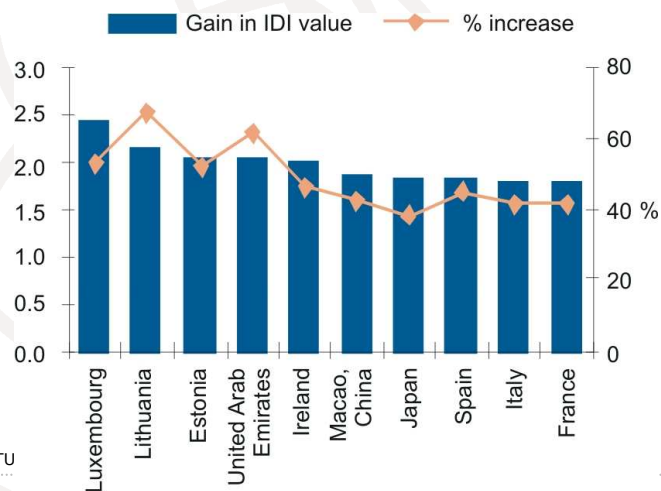


Source: ITU

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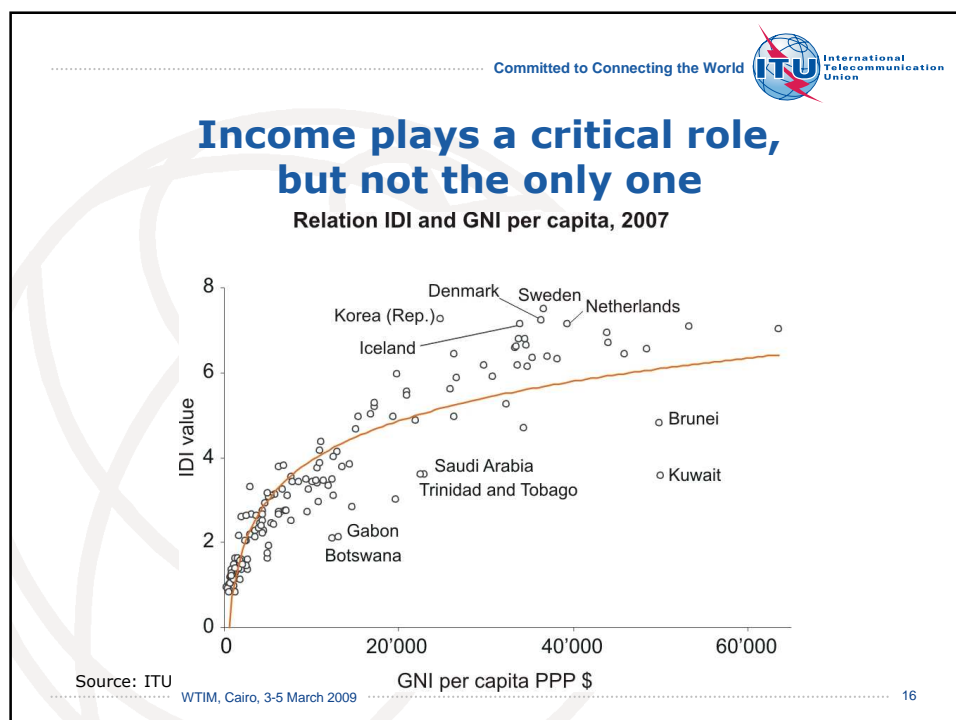
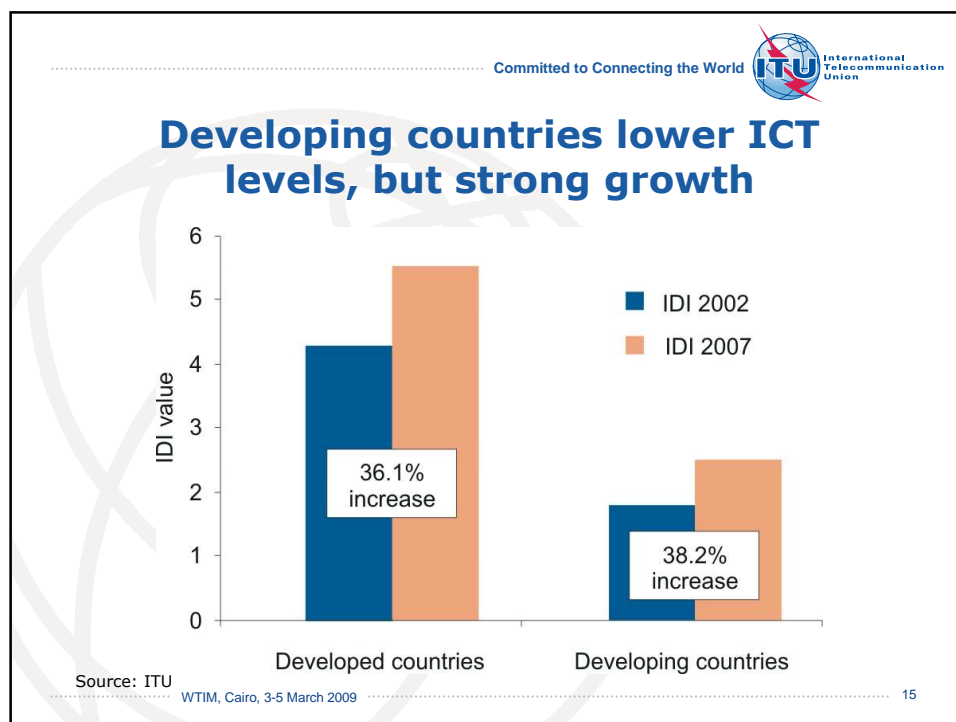
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Economies with highest absolute IDI increases, 2002-2007



Source: ITU

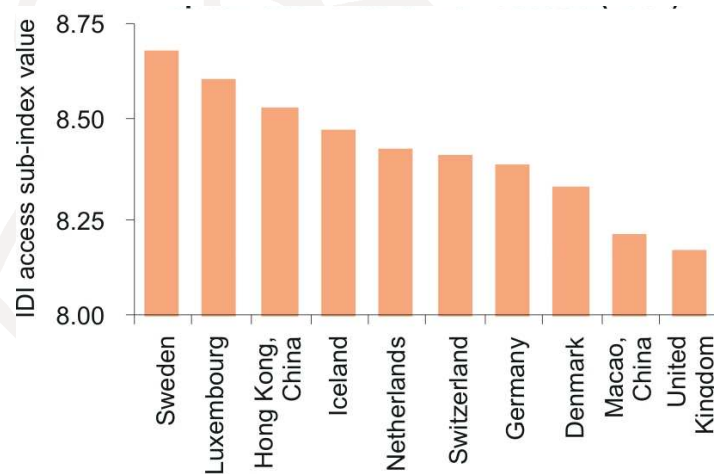
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A closer look at the IDI sub-indices

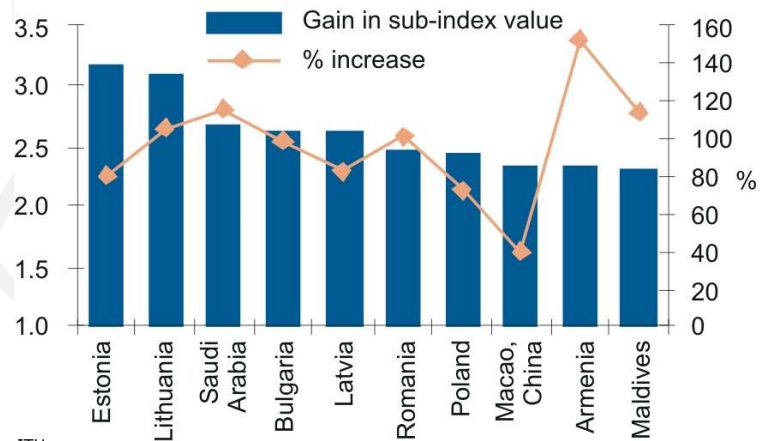
- Access
- Use
- Skills

Top ten countries on ICT access, 2007



Source: ITU

Countries that increased most in access mainly from Eastern Europe

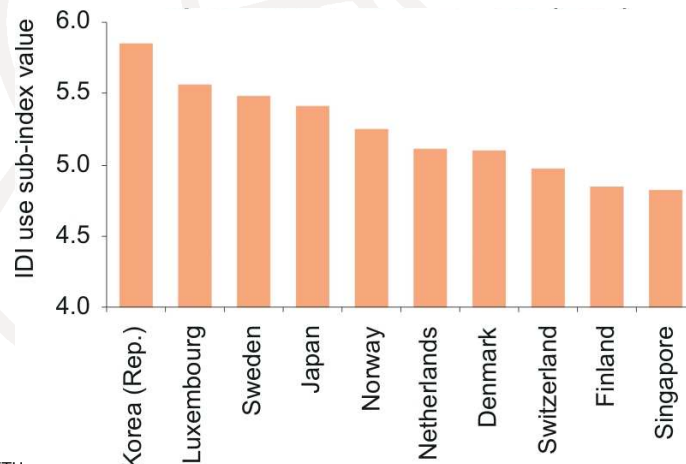


Source: ITU

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Top ten countries on IDI use, 2007

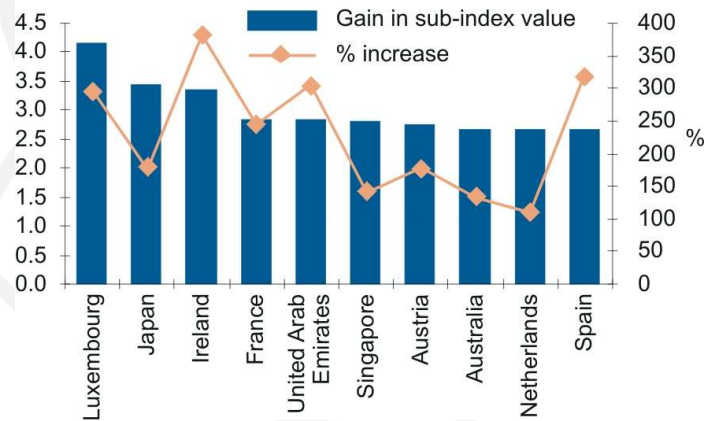


Source: ITU

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Countries with highest absolute gains in IDI use

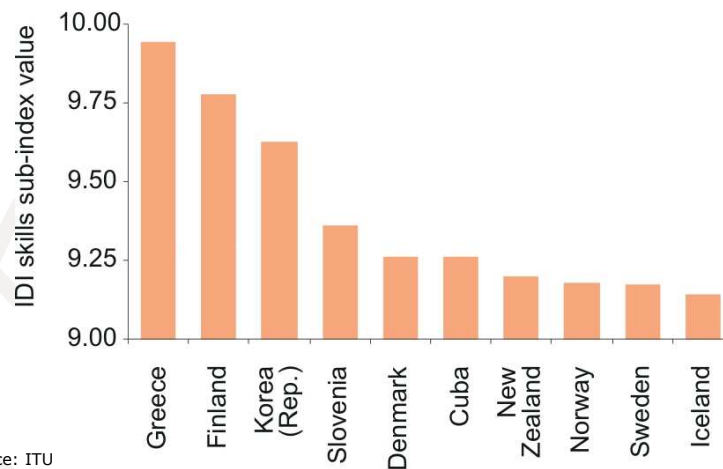


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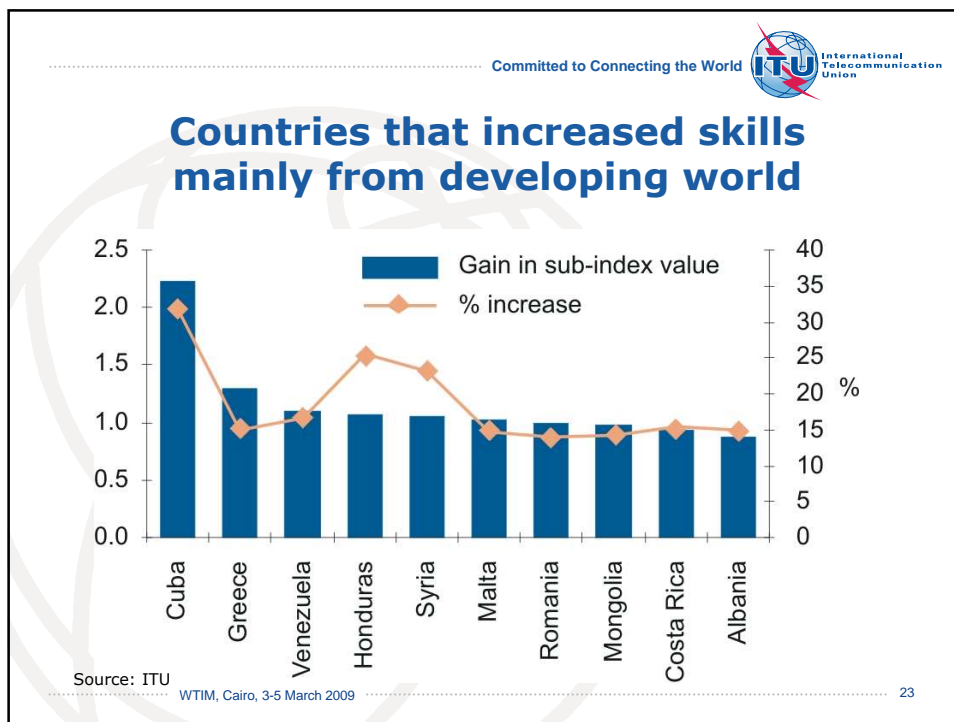
Top ten countries on IDI skills, 2007




Source: ITU

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What about the Digital Divide?

- Key objective of index
- Major policy interest
- Methodology adopted from Orbicom/ICT-OI

Key question:
How has it evolved over time?

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Four IDI country groups

Group	Number of countries	Share in population (%)*	IDI 2007	
			Minimum	Maximum
High	33	15.1	5.29	7.50
Upper	33	11.9	3.41	5.25
Medium	44	37.4	2.05	3.34
Low	44	35.6	0.82	2.03
All countries	154	100.0	0.82	7.50

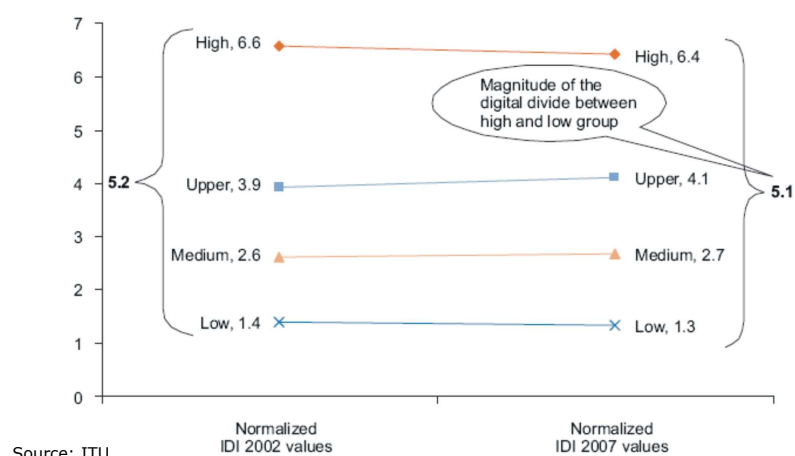
Note: * The 154 economies included in the IDI accounted for 97.6 per cent of the total world population in 2007.

Source: ITU

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The digital divide remains significant



**But how much do ICT
services cost?**



The ICT Price Basket

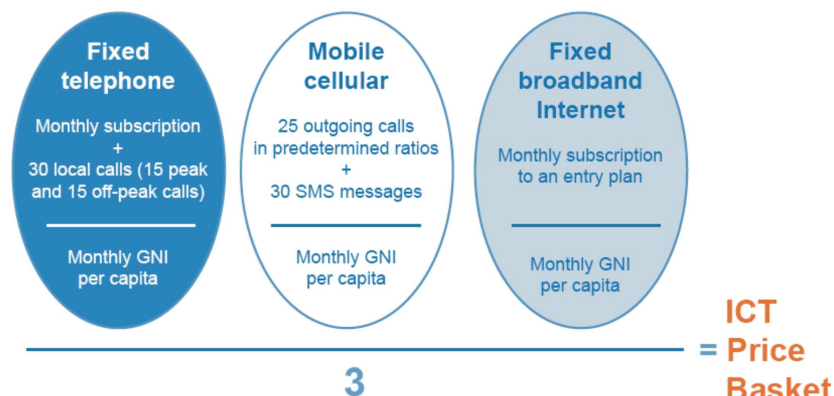
The ICT Price Basket - objectives

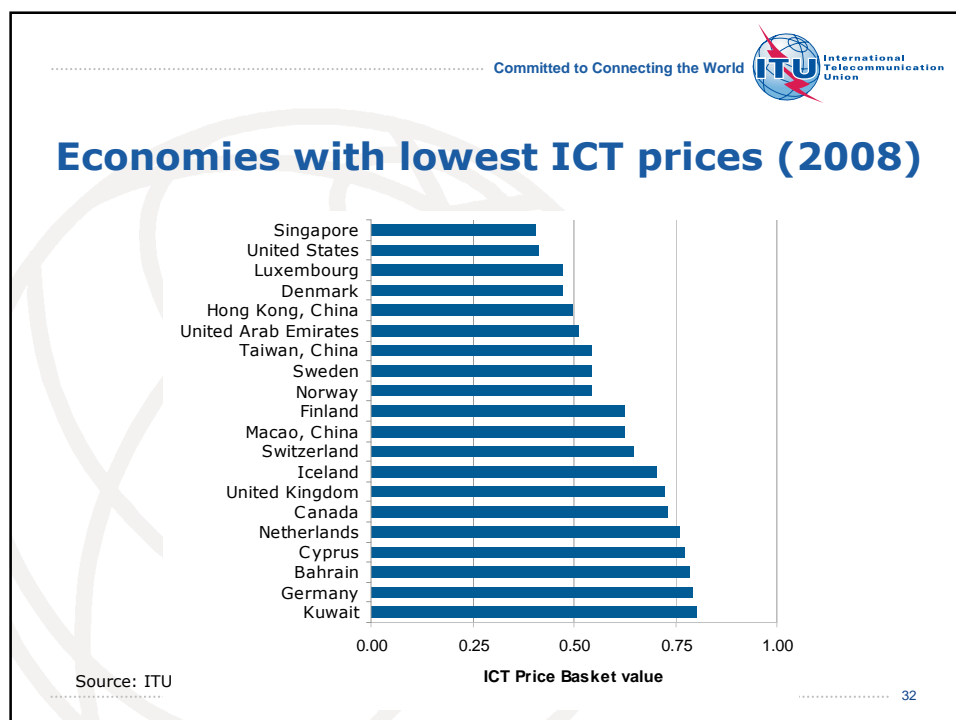
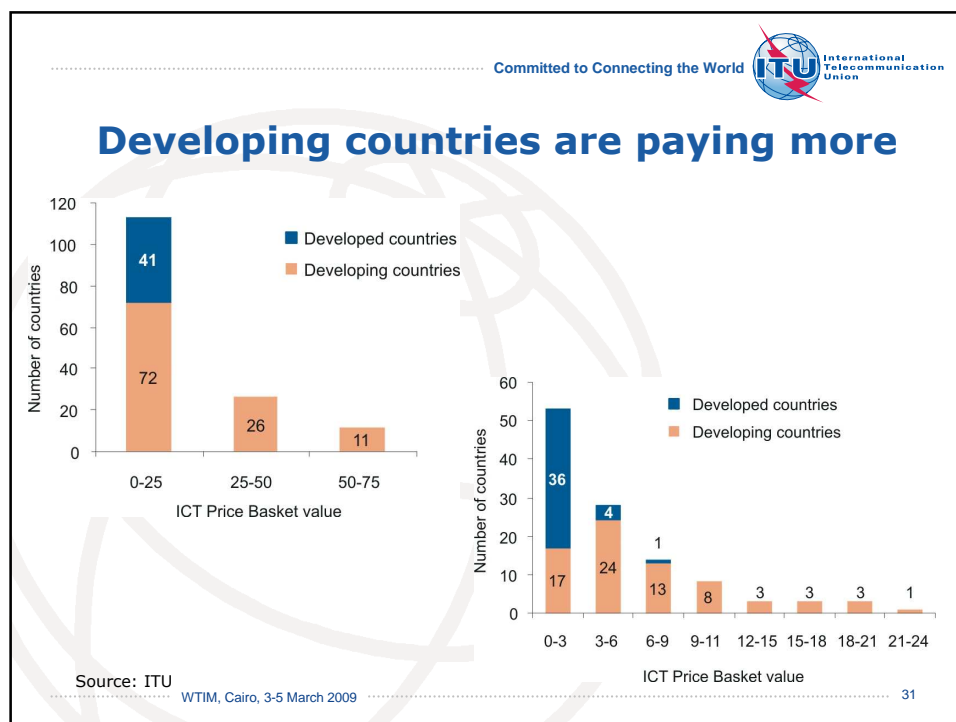
- To illustrate, and raise awareness of, the importance of ICT prices for ICT uptake
- To allow policy makers evaluate the cost of ICTs in their countries
- To provide a tool for benchmarking ICT prices globally
- To monitor ICT prices and affordability over time

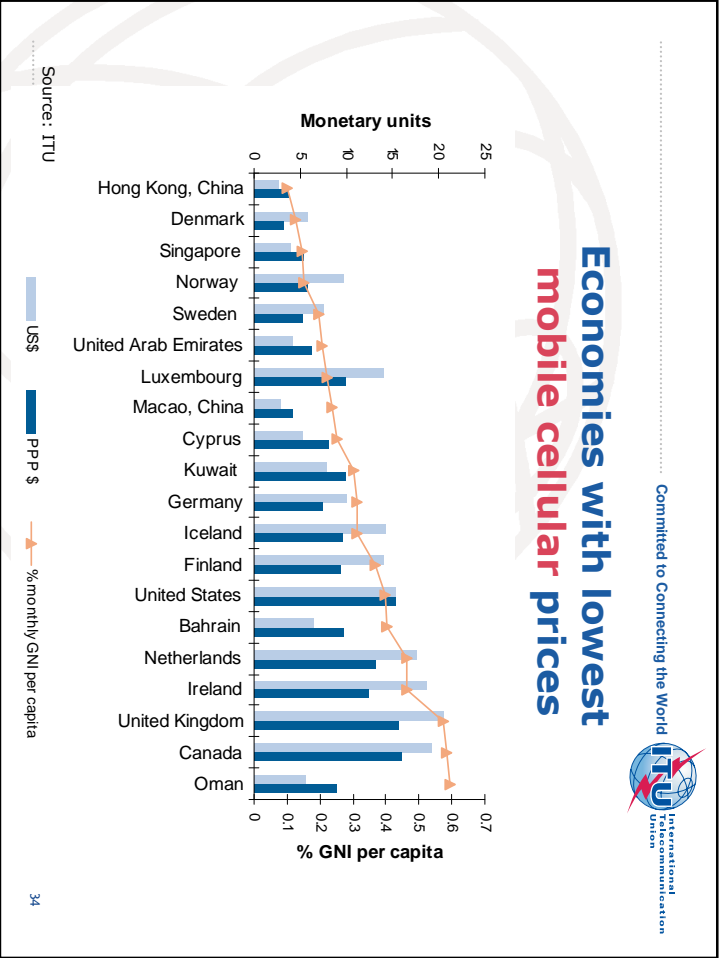
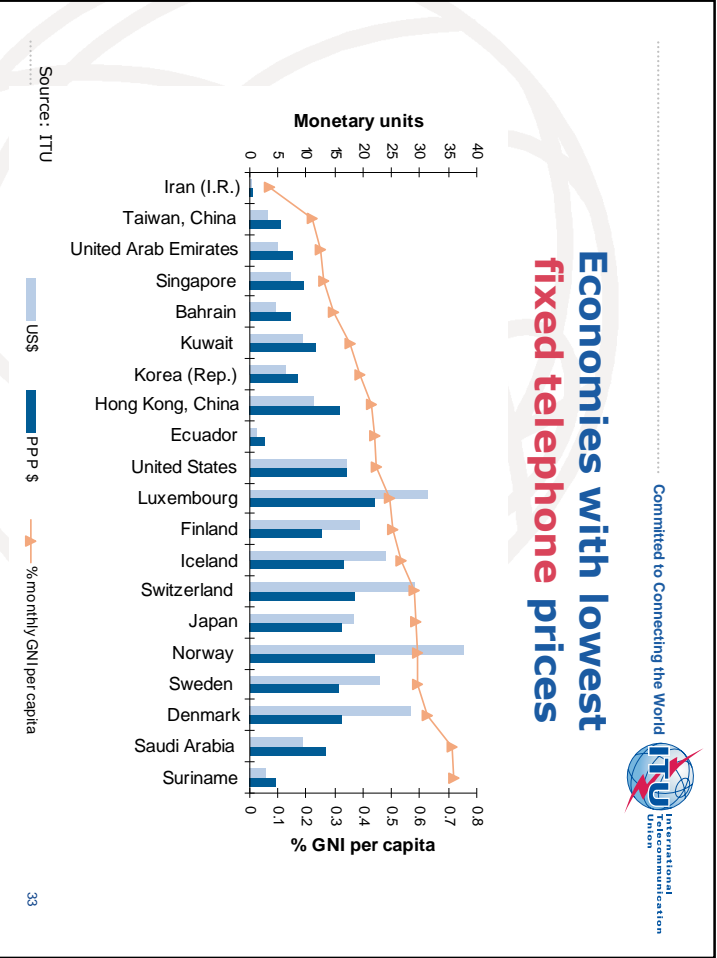
ICT Price Basket methodology

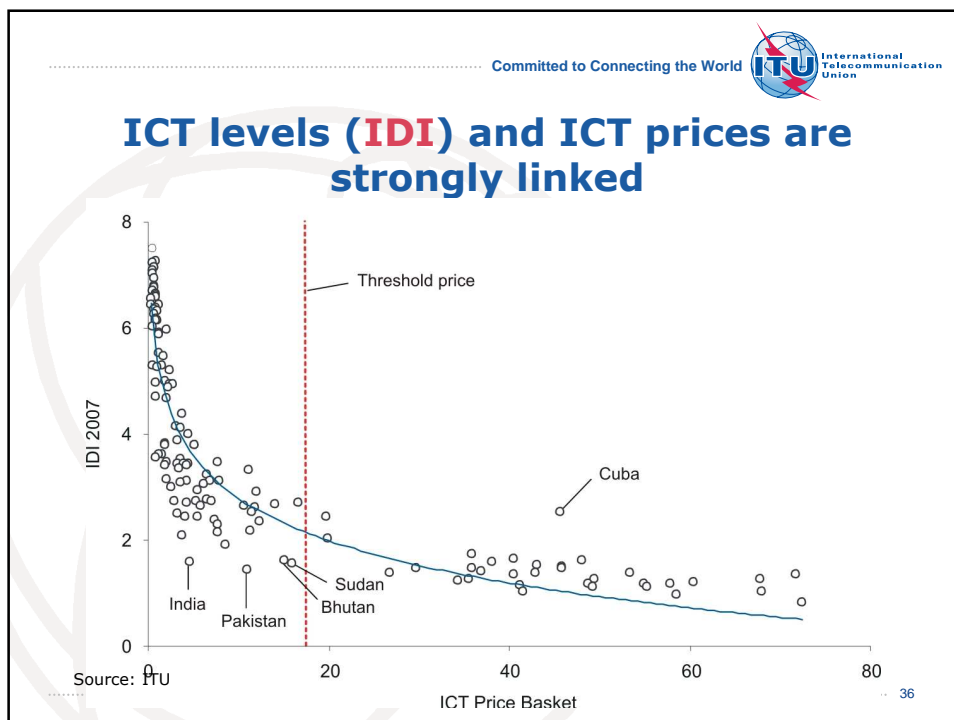
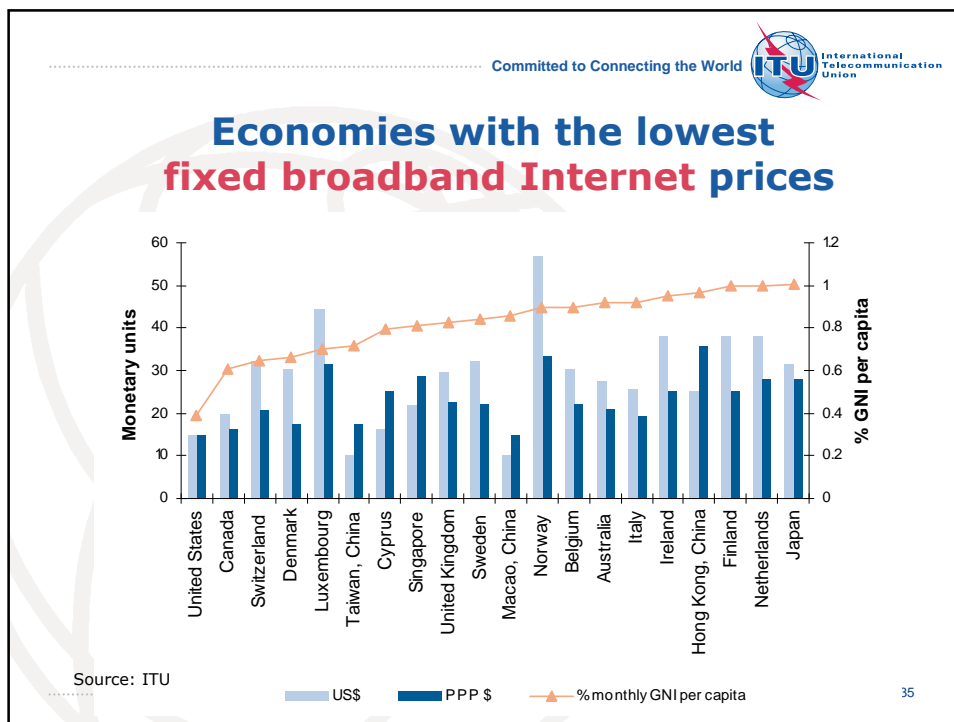
- Three sub-baskets: fixed telephone, mobile cellular, fixed broadband Internet
- Three calculations per sub-basket: US\$, PPP\$, % monthly GNI p.c.
- Final ICT Price Basket: average of the three sub-baskets (US\$) as % of monthly GNI p.c.**
- 2008 data collected by ITU

ICT Price Basket methodology



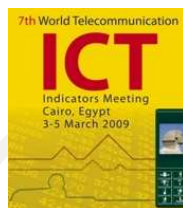






Conclusions

- Information society growing worldwide
- Digital divide persists but decreasing between top ICT countries and others
- ICT policies can accelerate ICT advancements
- High cost of Internet broadband access in some developing countries major barrier that needs to be addressed.



Thank you

indicators[at]itu.int

www.itu.int/ict