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ICT for Development for All:
Current Trends, Analysis & Regulation

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More and more digital opportunities...

Source: ITU World Telecommunication Indicators Database.

Source: ITU World Telecommunication Indicators Database.
..but major disparities remain and new divides must be addressed!

Internet penetration by region, 2004

<table>
<thead>
<tr>
<th>Region</th>
<th>%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Americas</td>
<td>28.2</td>
</tr>
<tr>
<td>Europe</td>
<td>28.7</td>
</tr>
<tr>
<td>World</td>
<td>13.2</td>
</tr>
<tr>
<td>Asia-Pacific</td>
<td>8.4</td>
</tr>
<tr>
<td>Africa</td>
<td>1.8</td>
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<tr>
<td>Arab States</td>
<td>5.6</td>
</tr>
</tbody>
</table>

Source: ITU World Telecommunication Indicators Database.

Distribution of broadband subscribers by region, 2004, in percent

- Asia-Pacific: 41.6%
- North America: 27.9%
- Europe: 27.8%
- Arab States: 0.2%
- Africa: 0.1%
- LAM & Caribbean: 2.4%

Source: ITU World Telecommunication Indicators Database.
A regulatory framework for developing countries’ broadband objectives

- Bridging the Digital Divide can be achieved
- Today’s broadband challenge requires new thinking and an end to business as usual
- Harness the potential of low cost technologies, savvy business practices and smart policies and regulations
- Build on mobile success where 1 billion mobile customers (or 58% of today’s 1.8 billion mobile users) are in developing countries
- Regulators have an unprecedented opportunity to speed the uptake of broadband to enable the Information Society
Advantages of new broadband technologies

- Build synergies with other infrastructure sectors, universities and private leased lines to deploy fibre backbones
- Foster local broadband networks by community stakeholders
- Use incremental nature of new technologies to promote broadband deployment as demand grows
- Think beyond national networks operated by legacy operators

...... but only with the right regulatory framework
Broadband regulation means a new vision of:

- Reduced regulatory burdens
- Innovative incentives
- Coordinated efforts by all links in the broadband value chain to unleash commercial and non-commercial deployment opportunities
- Carefully tailored regulations opening the door to both large and small-scale broadband providers
Broadband regulatory challenges

**International traffic** (billions of minutes)

- **VoIP**
- **PSTN**

International VoIP traffic grew 35% in 2004

Source: ITU World Telecommunication Indicators Database and TeleGeography.

**Spam as a percentage of e-mail worldwide scanned by MessageLabs**

Source: MessageLabs.
ICTs increase productivity, save time and money, contribute to social development and much more...

How telework saves British Telecom time and money

- BT estimates that ICT-enabled telework allows the company to save over GBP 60 million per year

- Accommodation cost saved per teleworker, per annum (in thousands of GBP)
  - 6

- Increased productivity (%)
  - 20

- Sick days per annum for teleworkers
  - 3

- Sick days per annum, industry average
  - 12

Average time saved (in minutes) per e-government transaction, by service, EU 2004

- Income taxes
  - 76 minutes

- Car registration
  - 61 minutes

- Birth/marriage certificates
  - 65 minutes

- Registration of a company
  - 75 minutes

Source: ITU adapted from EU.

Source: ITU adapted from Broadband Stakeholder Group, 2004
The WSIS’s expectations are high - the promises the Information Society holds

- WSIS documents include over two dozen references highlighting that ICTs can help
  - «increase broadly-based economic growth»
  - «support sustainable development»
  - «improve socio-economic development»
  - «achieve the internationally agreed development goals and objectives, including the Millennium Development Goals»

- To exploit the potential of ICTs:
  - Increase access to ICTs, including broadband access
  - Track progress on digital opportunities & the WSIS targets and identify and evaluate impact of ICTs, including on the MDGs
Thank you

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