



# **ITU and ICT Development**

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# ITU & ICT Development

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**The importance of ICT for Development has been widely agreed by WSIS. The WSIS issues considered priorities for ITU include:**

- **Access and connectivity**
- **International standardisation**
- **Radio frequency management**
- **building confidence, trust and security**
- **Establishing stable regulatory frameworks (good governance)**
- **Human capacity building**

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**Areas in which ITU is recognised for its expertise and competence include:**

- **Stewardship of scarce resources (such as spectrum and orbital resources and numbering)**
- **promoting the concept of universality of network services, and the development of an effective policy and regulatory environment**
- **Internet Domain Name management**
- **performance monitoring and collection and dissemination of statistics**

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## → Activities

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### 1. Policy & regulatory reform:

- \* organise annual Global Symposia for Regulators
- \* develop model legislation
- \* prepare case studies and best practices
- \* prepare costing & pricing mechanisms
- \* annually prepare *Trends in Telecom Reform*
- \* organise the Global Regulators Exchange (G-REX)

# ITU & ICT Development → Activities

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## 2. Standardisation:

- \* work with other organisations on the implementation of initiatives that assist in bridging the standardisation gap between developing and developed countries
- \* developing recommendations on tariff and accounting principles on International Internet Connectivity to facilitate negotiations and agree to bilateral commercial arrangements

# ITU & ICT Development → Activities

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## **3. Legislative environment:**

- \* Assist developing countries to develop model laws for ICTs (e.g. e-applications)**
- \* assist against cybercrime, for security and data privacy**
- \* Meeting on Information Technologies and Law was held in Minsk, 28-29 October 2004**

# ITU & ICT Development

## → Activities

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### 4. Internet Policy and Domain Name Management:

- \* workshops on ccTLD and management of gTLD
- \* Internet Symposium in July 2003 resulting in the Kigali Declaration
- \* Workshop on Internet Governance held in Geneva, 26-27 February 2004
- \* workshop on Internationalised Domain Names and ENUM (jointly with APT)
- \* handbook on best practices is being produced on Internet policy

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## 5. Security:

- \* **X.509 – ITU Recommendation and standard for electronic authentication over public networks; the definitive reference for designing secure applications for the Public Key Infrastructure (PKI)**
- \* **provides security guidelines to those developing new services, including in the area of threats & vulnerabilities**
- \* **over 70 recommendations focusing on security have been published**
- \* **organized a Meeting on Countering Spam, 7-9 July 2004**
- \* **organizing a Meeting on Cybersecurity, Geneva, 28 June to 1 July 2005**

# ITU & ICT Development → Activities

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## 6. ICT Infrastructure Developments:

- \* **promote the use of most suitable technologies, including wireless, as a way to address costs in a timely and effective way**
  - **particularly the case for rural and remote areas**
  - **that have lower subscriber density**
  - **or geographic challenges (mountaneous terrain, large bodies of water, or jungles)**

# ITU & ICT Development → Activities

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## 7. IMT-2000/3G mobile:

- \* provide a framework for worldwide wireless access making use of terrestrial and/or satellite components
- \* development of global standards to enable systems roll-out to start worldwide
- \* improve radio and network system global specifications and develop frequency arrangements to cope with medium and long-term bandwidth requirements (all 3 sectors of ITU)
- \* prepare guidelines for smooth migration (MTG)

# ITU & ICT Development → Activities



## 8. Next-Generation Networks (NGN):

- \* **take a leadership position in the movement to develop NGN: to provide information, content, services and connectivity on a global scale**
- \* **ITU technical recommendations used as a basis for the convergence of existing and new networks**
- \* **organise conferences and training workshops**
- \* **ITU Study Groups involved in building the technology framework required to be able to implement NGN**

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## 9. Digital Broadcasting:

- \* speed up the introduction of digital broadcasting services for radiocommunications as well as infocommunication
- \* study digital TV & HDTV, sound, data and multi-media as well as transition from analogue to digital broadcasting systems
- \* implement a new working structure aimed at preparing proposals on bridging the digital divide
- \* improve presentation of web pages on ordinary TV set screens

# ITU & ICT Development → Activities

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## **10. Other Broadband Access Technologies:**

- \* ITU is studying the various aspects relating to wireless access system, including frequency spectrum issues and standardisation**

**→ <http://www.itu.int/ITU-R/study-groups/was/index.html>**

# ITU & ICT Development → Activities

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## 10. Wireless Local Area Network (WLAN):

- \* **study the convergence between IMT-2000 and WLAN-based systems**
- \* **also studying the technical and operational characteristics that could facilitate the mass production of simple terminal equipment at affordable prices for the worldwide provision of high speed satellite-based Internet services**

# ITU & ICT Development → Activities



## 11. Human Capacity Building: (Programme 5 of IsAP)

- \* Transfer of knowledge (high-level training)
- \* promote the sharing of experience and know-how
- \* strengthen Human Resources and Training functions
- \* Disseminate information
  
- \* special initiatives include:
  - Centres of Excellence Initiative (7)
  - Internet Training Centres Initiative (50+)
  - ITU e-Learning Centre
- \* joint ITU/WTO workshop on capacity building on Telecom and ICT Regulation (upcoming pilot)
- \* Global HRM/D Symposium on "Developing ICT Resources to create Competitive Advantage", Dubai, September 2005

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## 12. e-Readiness:

- \* **develop financing and economic strategies to foster the opportunities created by telecom development & ICTs (including guidelines and workshops)**
- \* **statistics and information: Regional and World Telecom Dev. Report, production of case studies, publications (e.g. *Internet for Development, Birth of Broadband*), etc.**
- \* **Meeting on Measuring the Information Society, Geneva, 7-9 February 2005**

# ITU & ICT Development → Activities

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## **13. Applications and Services:**

- \* e-Government: projects, guidance in elaborating technology policies at national and regional levels**
- \* e-Commerce: providing technical, policy and strategy assistance**
- \* e-Health: providing assistance to projects**
- \* e-Security: providing assistance and training to developing countries**

# ITU & ICT Development



## WSIS as related to ITU:

- 1. Provide ICT to all**
- 2. ICTs as a tool for economic and social development – and meeting the Millennium Development Goals**
- 3. Confidence and security in the use of ICTs**

# ITU & ICT Development CONCLUSIONS



**ITU stands to play an active role in the implementation of WSIS action plan:**

- **in fields in which it has competence**
  - **implement activities considered core mandate of ITU and its membership**
  - **help establish a coordination group with other stakeholders in order to implement the WSIS action plan**
- ITU would be delighted to partner with you in any initiative that helps developing countries bridge the digital divide and join the Information Society**