Telecommunication Development Bureau

ITU and ICT Development

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ITU & ICT Development

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 has 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**

ITU & ICT Development - Activities

1. **Policy & regulatory reform:**

* organise annual Global Symposium 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)

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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.

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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

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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 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 and vulnerabilities

* over 70 recommendations focusing on security have been published

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1. 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)

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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 arrange-ments to cope with medium and long-term bandwidth requirements (all 3 sectors of ITU)

* prepare guidelines for smooth migration (MTG)

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8. Next-Generation Networks (NGN):

* take a leadership position in the movement to develop NGN

* 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

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1. 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

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1. 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

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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:
  - Centres of Excellence Initiative (7)
  - Internet Training Centres Initiative (50+)
  - ITU e-Learning Centre

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1. **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.

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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

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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 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**