

**ITU-D Broadband Activities
ITU-BDT Broadband Wireless Access Seminar
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Developing Regions

- Growing demand for Broadband
- Lack of wireline infrastructure needed to meet the growing demand for Broadband
- BWA, economical and easy to install, is a good high performance solution to address the needs of developing regions
- Availability of broadband services in rural and remote areas can address a variety of challenges posed by the distance

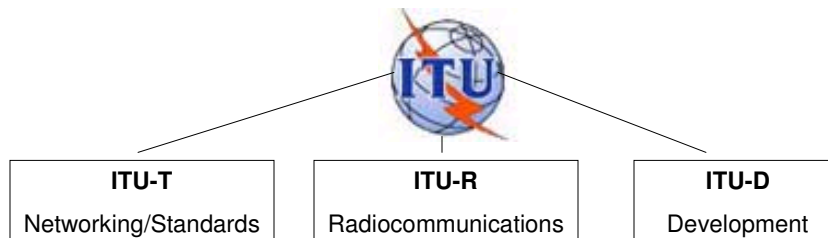
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ITU-D Broadband Activities Presentation Agenda

- ITU-D Introduction
- Question 20-1/2: Broadband Access Technology
- Public Role in Promoting Broadband
- Best Practice Guidelines for the Promotion of Low-Cost Broadband and Internet Connectivity
- Participation Please

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ITU Structure



ITU-D manages two study groups:

- These groups serve as a forum for developing and developed countries and public and private sector organizations to meet with the purpose of devising innovative solutions which address specific problem areas as identified by the World Telecommunication Development Conference.
 1. Study Group 1: Telecommunication development strategies and policies (regulatory)
 2. Study Group 2: Development and management of telecommunication services and networks (technical)

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ITU-D Study Group 2 Question 20-1/2 Broadband Access Technologies

- **Approved at World Telecommunications Development Conference 2002:**
 - Identify the technical, economic, and development factors influencing the effective deployment of broadband access technologies and applications.
- **Technology Scope:**
 - All broadband technologies - as inclusive as contributions permit.
- **The Draft Report will be submitted to the SG2 Meeting in September 2005 for approval for submission to the WTDC in Doha in March, 2006.**
- **The Report is divided into 3 main sections:**
 1. **General Broadband Matters:**
 - Social and Economic Benefits
 - Broadband Applications
 - Broadband Deployment
 2. **Technology Matrices**
 - Wireline Broadband Access Technologies (ex: DSL)
 - Wireless Broadband Access Technologies
 - Fixed Broadband Wireless Access (ex: 802.16 standard)
 - Mobile Broadband Wireless Access (ex: IMT-2000 standards)
 - Technologies in the Process of Standardization (ex: Canopy Solution)
 3. **Country Experiences**

Public Roles in Promoting Broadband

- ***Establish government programs that serve to accelerate broadband supply:***
 - Several government sponsored programs at the local, national and regional levels have been successful at increasing the overall supply of broadband
 - Specifically, governments can invest directly in broadband infrastructure as well as provide tax credits, low-interest loans and subsidies to the industry players looking to provide broadband networks in underdeveloped areas.
 - It is important that in promoting development of broadband “for all” to avoid any direct or cross-subsidy by the state which would give an unfair advantage to some market stakeholders.

Public Roles in Promoting Broadband

- ***Public institutions as effective anchors for broadband demand:***
 - In areas where individual household connections are not yet viable, schools, hospitals and community access centres can be utilized to offer broadband connections.
 - The network can then expand incrementally from these key points as the technology and economy allows.
 - Wireless broadband also offers a viable community alternative to fixed line solutions such as broadband via DSL or cable modem.

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Public Roles in Promoting Broadband

- ***Government participation at all levels:***
 - National, regional and city-wide initiatives and community participation projects have been successful in expanding access.
 - In some cases, governments have chosen to provide, or to subsidize, infrastructure to stimulate the economic development of a particular area.

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Best Practice Guidelines for the Promotion of Low-Cost Broadband and Internet Connectivity

- In December, 2004 the Best Practice guidelines was produced at the Global Symposium for Regulators. These guidelines describe what the foundation for an enabling regulatory regime should be and how governments can help to stimulate growth in the telecommunications market.
- A sampling of some of the recommendations are as follows:
 - **“We encourage political support at the highest government levels with such support expressed in national or regional policy goals. These include an effective, separate regulator insulated from political interference, a transparent regulatory process, and adoption and enforcement of clear rules.”**
 - **“We encourage regulators to set policies to stimulate competition among various technologies and industry segments that will lead to the development and deployment of broadband capacity. This includes addressing barriers or bottlenecks that may exist with regard to access to essential facilities on a non-discriminatory basis.”**

Best Practice Guidelines for the Promotion of Low-Cost Broadband and Internet Connectivity

- Recommendations continued...
 - **“We encourage regulators to allocate adequate spectrum to facilitate the use of modern, cost effective broadband radiocommunications technologies. We further encourage innovative approaches to managing the spectrum resource such as the ability to share spectrum or allocating on a license-exempt non-interference basis.”**
 - **“We urge regulators to conduct periodic public consultations with stakeholders to inform the regulatory decision-making process.”**
 - **“We recommend that regulators carefully consider how to minimize licensing hurdles.”**
 - **“We encourage regulators to provide a clear regulatory strategy for the private sector in order to reduce uncertainty and risk, and remove any disincentives to investment”**

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Proposal for a Revision of Question 20-1/2

- **A proposal for a revision of Question 20-1/2 will be reviewed at the SG2 meeting in September 2005. If approved it will be sent for consideration at the WTDC '06.**
- **The proposal for the revised question will call for the following inputs into Q20-1/2 for the next ITU-D Study Group period:**
 - We require input from developing and least developed countries; specifically, the assessment of their experiences with broadband implementation.
 - Updates of the technology matrices contained in the current draft report as well as new contributions containing information on new broadband access technologies.
 - We require information on the economical factors affecting broadband deployment in developing countries. This can include information on tariffs, equipment costs, interconnection charges, licensing fees, etc...

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We would like to see administrations throughout Latin America participate in the Rapporteur's Group for Q20-1/2. We look forward to receiving contributions from your administration that describe its experiences with Broadband implementation and use.

GRACIAS, OBRIGADA, THANK YOU!

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