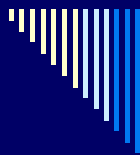


**ITU-D Broadband Activities
ITU-BDT Seminar for Rural and Remote Areas of Africa
September 18-21, 2006
Yaoundé, Cameroon**

**Samantha Craig
Rapporteur ITU-D Q20-2/2
scraig@qualcomm.com
1-858-663-7947**

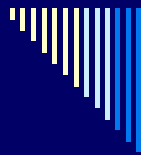
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Developing Regions

- **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**
- **Deployment of wireless broadband services in rural and remote areas can help to address a variety of challenges posed by the distance**
 - **Examples include e-health, e-learning, e-government, etc...**

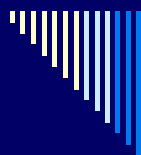
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ITU-D Broadband Activities Presentation Agenda

- ITU-D Introduction
- Overview of Q20-2/2: Broadband Access Technology
- Public Role in Promoting Broadband
- ITU's Connect the World Initiative

3



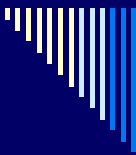
ITU Structure



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)

4



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

- Approved at World Telecommunications Development Conference of 2006 in Doha, Qatar:
 - Identify the technical, economic, and development factors influencing the effective deployment of broadband wired and wireless access technologies and their applications, with a focus on technologies and/or standards recognized or under study by the other two ITU Sectors.
- Technology Scope:
 - All broadband technologies - as inclusive as contributions permit.
- The Raporteur's Group meeting was held during the ITU-D SG 2 meeting on September 8, and there the work plan for the next four years was established and approved. .

5



Revised Question 20-2/2 for the 2006-2010 Study Cycle

- The expected inputs for Q20-2/2 are:
 - Collection of developing Member States' requirements through a questionnaire.
 - An assessment of developing countries' experience with broadband access technologies using the same questionnaire referred to above.
 - An update of ITU-T and ITU-R outputs, relevant to broadband access technologies.
 - Contributions of concerned industry on the development of broadband access technologies for both wired and wireless.
 - Contributions on economic factors relevant to the deployment of wired and wireless broadband technologies, this might include information on tariffs, equipment costs, interconnection charges, licensing fees for wireless applications, etc.

6



Revised Question 20-2/2 for the 2006-2010 Study Cycle

- **The expected outputs for Q20-2/2 are:**
 - Report/Guidelines not to exceed 50 pages
 - An analysis of the economic, technical, regulatory and development factors influencing the effective deployment of broadband technologies. This will also include an assessment of the demand for these technologies and applications in developing countries.
 - A matrix of different broadband access technologies, both wired and wireless, terrestrial high-altitude systems, including stratospheric-based satellite. Yearly updating of the technology matrices will be necessary, including an update of the output report of the last study period by the year 2009.
 - Countries' and operators' experiences with broadband deployment.

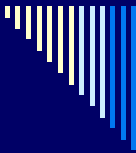
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Revised Question 20-2/2 for the 2006-2010 Study Cycle

- **Q20-2/2 Questionnaire dealing with ITU-D Member States' Requirements for Broadband Access**
 - Questionnaires will be distributed to administrations by November 1, 2006
 - Responses are due to the Rapporteur and BDT Secretariat by March 1, 2007
 - An analysis of the responses will be performed and recorded by June 15, 2007. Final results will be released at the SG2 meeting in September 2007.
- **Your participation is requested.**
 - Please contact me at the coffee break if you would like to receive a Questionnaire via email.

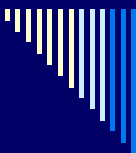
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Public Roles in Promoting Broadband

- *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.

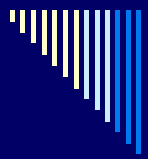
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Public Roles in Promoting Broadband

- *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.

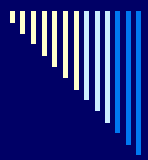
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Public Roles in Promoting Broadband

- **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.

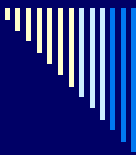
11



ITU's Connect the World Initiative ...Connecting the unconnected by 2015

- **Connect the World** is a global multi-stakeholder initiative set up within the context of the World Summit on the Information Society.
- Designed to showcase, consolidate and scale-up existing development activities and stimulate new partnerships, its aim is to accelerate and strengthen efforts to bridge the digital divide.
- **Connect the World** has identified three key areas of activity that, together, constitute the primary building blocks needed to reach the goal of connecting the unconnected worldwide by 2015.
 - Enabling Environment
 - Infrastructure and Readiness
 - Applications & Services

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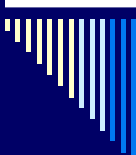
Connect the World ...Connecting the unconnected by 2015

Several Partner projects are focused on delivering broadband access to underserved areas and also on training, an important component for any development project dealing with ICTs

1. Microsoft's Unlimited Potential

- Microsoft understands that IT skills training, tools and guidance are critical to help people discover what technology can do for them, and what they can do with technology.
- To address this, Microsoft created the Unlimited Potential (UP) program, which is dedicated to improving the learning opportunities for individuals outside of formal traditional education settings by focusing on providing technology-related skills through community technology centers (CTCs) or telecenters.
- Telecenters represent prime locations where people can go beyond merely having access to technology and can acquire the skills to use ICTs effectively. Through this global program, Microsoft seeks to use technology training to create social and economic opportunities that can change lives, transform communities, and strengthen local economies.

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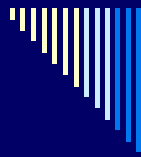


Connect the World ...Connecting the unconnected by 2015

2. Egypt's "Broadband Initiative"

- Launched in May 2004, the Broadband Initiative focuses on collaboration between government and the private sector. Increasing ADSL penetration is first on the Broadband Initiative agenda, with an initial target of 50,000 residential and business subscribers during the first year.
- Wireless access through technologies like Wi-Fi is also a key part of the plan, as it provides an attractive option for rolling out broadband services nationwide, particularly in rural areas and new satellite cities where infrastructure is less well-developed.

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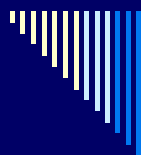


Connect the World ...Connecting the unconnected by 2015

3. Wireless Reach: Connecting Remote Communities in Lampung, Indonesia

- The project will bring CDMA 450 technology into the five townships of Lampung province, one of the poorer provinces of Indonesia. Although less than an hour's flight from Jakarta on the renowned island of Sumatra, Lampung province, like most of rural Indonesia, has little to no telecommunications infrastructure. The project has 3 components:
 - Establish a CDMA 450 "cellular kiosk" in each of the 59 villages within the 5 townships to give villagers access to telecommunications
 - Provide CDMA 450 handsets to every village chief to improve governance and efficiency
 - Creating computer labs with internet access in each of the five provincial high schools

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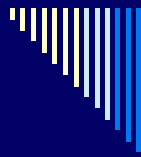


Connect the World ...Connecting the unconnected by 2015

Who can join?

- *Connect the World* is an open-ended process, with new partners able to join at any time. One of our aims is to attract more partners with a view to stimulating new projects and forging new partnerships.
- To become a partner, organizations must have a commitment at the CEO/leader level to undertake one or more activities that contribute to achieving the goal of connecting the unconnected by 2015, within the framework of the [Connect the World Building Blocks](#).

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We would like to see administrations from around the world participate in the ITU-D's Study Question 20-2/2 on Broadband Access technologies.

Contributions from developing countries that describe their experiences with Broadband implementation and use will be very important for the outcome of the next study cycle .

THANK YOU!