ITU-D Regional Development Forum for the Arab Region:
"NGN and Broadband, Opportunities and Challenges"

Bridging The Standardization Gap(BSG)

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- About ITU-T
- Defining the standardization gap
- Measuring and evaluating the gap
- ITU-T activities to bridge the gap



About ITU-T

- Establishes worldwide standards → Connect the world
- Work (mostly) done in Study Groups (10 of them)
- Membership Benefits
 - Participate in the standards development and approval process
 - Beat the competition
 - Unique partnership of private sector (Sector Members) & government (Member States)
 - ➤ International Reach → faster entry to market
 - > Standards making the fast way (AAP vs TAP)



ITU-T's strategic goals

- To develop interoperable, non-discriminatory international standards (ITU-T Recommendations) in a multi-stakeholders public/private environment
- To assist in bridging the standardization gap between developed and developing countries
- To extend and facilitate international cooperation among international, regional and national standardization bodies, forums and consortia



Activities in ITU-T

- Study Groups
 - > Operational Aspects (Numbering, Addressing)
 - > Economic and policy issues
 - > Environment and Climate change
 - Broadband Cable and TV
 - > Transport and Access
 - Security
 - > Performance, Quality of Service
 - > Protocols and Test Specifications
 - Future Networks
 - Multimedia
- Bridging the standardization gap
- Accessibility
- Conformity and Interoperability
- Technology Watch
- Kaleidoscope and Academia



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Standardisation and Standards

- Standardisation → Key building block for building a globally connected society
- Importance of standards
 - > Foster innovation
 - Competition
 - > Enable interoperability
- "Global standards create a positive user experience. They help to satisfy consumers' expectations that technology products will work together easily." - Justin Rattner, Intel

The Standardization Gap

- It is defined as disparities in the ability of developing countries, relative to developed ones, to access, implement, contribute to and influence international ICT standards.
- The standardization development gap is itself both a cause and a manifestation of the wider digital divide
- It contributes to the persistence of the wider digital divide.



Framework for BSG

- PP-10 Resolution 123
 - Recognizing "the continued shortage of human resources in the standardization field of developing countries, resulting in a low level of developing country participation in ITU-T and ITU-R meetings ..."
- Resolution 44 (WTSA-08): Action Plan
 - > Strengthening standards-making capabilities
 - > Assisting ITU-D in enhancing application of standards
 - > Human resource building
 - > Flagship groups for bridging the gap
 - ➤ BSG Fund
- Resolution 47 (WTDC-10)

Enhancement of knowledge and effective application of ITU Recommendations in developing countries, increase capacity building opportunities for interoperability



How can countries bridge the gap? tering proposals at WTSA n future study questions and work programmes Bridging the standardization development gap requires a sequence of steps, depending on the level of: Giving contributions at Study Groups and related meetings > economic development > local manufacturing capability local R&D capability > previous engagement with ITU These steps can be conceptualized in terms of a "Ladder of Standardization National training and apacity -building in use of ITU Recommendations Development" International Telecomnunication Growing usage of ITU Recommendations

How can countries bridge the gap?

- 8 Entering proposals at WTSA on future study questions and work programmes
- 7 Nominating representatives as SG chairs, vicechairs, Rapporteurs, focus group chairs, etc
- 6 Giving contributions at SGs and related meetings
- 5 Attracting ITU meetings and/or regional groups
- 4 Going to SGs and related meetings
- 3 ITU Sector Membership and Associate status
- 2 National training and capacity-building in use of ITU Recommendations
- 1 Growing usage of ITU-T Recommendation

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ITU-T Research : Measuring and Reducing the Gap

- Assess the standards development capability of developing countries
- Supported by a grant from Korea Communications Commission.
- Survey questionnaire sent to all developing countries
- Case Studies done for nine countries China, Czech Rep., Lebanon, Mali, Mongolia, Papua New Guinea, Tanzania, Thailand, Zambia
- Preliminary Report published in December 2009.

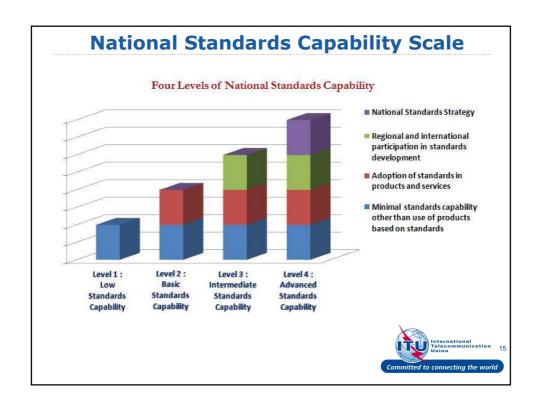
http://www.itu.int/en/ITU-T/gap/Pages/default.aspx

International Telecommunication 13

ITU-T Research : Measuring and Reducing the Gap

- Standards Development Capability
- Government Standards Policy
- Standardisation Human Resources
- National Standards Use and Adoption





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ITU-T Activities to Bridge the Gap

- Improve standards making capabilities
- Assist in enhancing efforts in standards applications
- Human resource building
- Establish regional groups for bridging the gap
- Set up BSG Fund



Improve Standards Making Capabilities

- Research on new tools for measuring and reducing the gap
- Free access to ITU-T Standards
- Increase remote participation and collaboration
- Admission of Sector Members and Associates from developing countries
- Increase number of officials (Chairs / Rapporteurs) from developing countries in ITU-T Study Groups
- Increase SG meetings in the regions
- Implement Res. 76 on capacity building and creation of test labs in the regions



New Membership Category for Academia

- PP-10 approved two resolutions to introduce new membership categories for academia and for SME companies from developing countries at reduced fee.
- Sector membership to academic and research institutions

Developed Countries: CHF 3,975Developing Countries: CHF 1,987.50

http://www.itu.int/members/index.html



Assist in Enhancing Applications of Standards

- Publication of Handbooks on applications of ITU-T Recommendations
 - > E.g. Fibre Optic Systems, ITU-T Security, EMC
- Workshops on Standardisation
 - ➤ 2 workshops on BSG were held in Fiji in September 2009 and another in Cyberjaya, Malaysia in June 2010, to provide best practices and guidance on improving national standards readiness.
 - > 3 workshops planned in 2011.



Human Resource Building

- Capacity Building
 - > ITU-T Recommendations
 - Better understanding of the ITU-T Recommendations, how to design and implement projects choosing the most appropriate equipment according to the state-of-the art.
 - ITU-T Tutorial on Optical Fibre Cables and Systems
 - Tutors are leading experts from industry
 - Conformity and Interoperability
 - Simulated Study Group Meetings
- Fellowships for representatives of developing countries



Regional Groups

- Regional Groups and meetings
 - SG2 Group for Arab Region
 - SG3 Groups for Asia and Oceania, Africa, Europe and Mediterranean, Latin America and Caribbean (Tariff and accounting principles)
 - SG12 for Africa (Performance, QoS)



BSG Fund

- BSG Fund set up in 2008
- Objective
 - > Facilitate the participation of developing countries in the standards development process
 - Allow developing countries to profit from access to new technology development
 - Ensure that the requirements of developing countries are taken into account in the development of standards
- CHF 288,000
- Korea Communications Commission, Nokia Siemens Networks, Microsoft, Cisco

Conclusions

- Bridging the Standardization Gap requires efforts from ITU and its Membership
 - Increase the use of ITU-T Recommendations, membership and participation of developing countries
 - > Capacity building on standardisation
 - Increase participation in Study Groups, Workshops, Meetings and number of contributions



