Bridging Standardization Gap BDT

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Bridging the Standardization Gap

Introduction

- Participation in the ICT standard process gives to contributors the chance to provide inputs and better understand of the technologies and applications that will become the next market reality.

- Good and liable standards help to improve the establishment of regional and national set of technical requirements and ultimately contributes to access safe and interoperable ICT equipment.

- Standardization capabilities contributes to reduce the digital divide between the developed and developing worlds.

- Increasing the knowledge and capacity of developing countries for the effective application/implementation of standards (Recommendations) developed in ITU-T and ITU-R is fundamental for bridging the standardization gap.

- The activities from ITU Regional Offices and Areas Offices is key. Tailored capacity building events and assistance to developing countries will increase inputs from developing countries into ICT standards.

Interoperability

ITU-D mandate

Resolutions on BSG

- Resolutions 25 and 123 (Rev. Guadalajara, 2010) of the Plenipotentiary Conference, on strengthening the ITU regional presence and bridging the standardization gap between developing and developed countries;

- Resolution 44 (Rev. Dubai, 2012): resolved to implement action plan aimed at bridging the standardization gap between developing and developed countries. Four programmes are considered:

    – Strengthening standard-making capabilities;
    – Assisting developing countries with respect to the application of standards;
    – Human resources capacity building; and
    – Fundraising for bridging the standardization gap.

WTDC-14   ITU-D mandate

- <u>WTDC-14,</u> Dubai, highlighted the relevance of regional activities and engagement on bridging the standardization gap between developing and developed countries.

- The <u>Dubai Declaration</u> specifically asserts that *"increased participation of developing countries in ITU activities to bridge the standardization gap is needed to ensure that they experience the economic benefits associated with technological development, and to better reflect the requirements and interests of developing countries in this area;"*

- Fostering *"the development of telecommunication/ICT networks as well as relevant applications and services, including bridging the standardization gap"* is the new ITU-D Objective 2;

- *Programme: Telecommunication/ICT networks, including conformance and interoperability and bridging the standardization gap*: The objective of BDT's work in this area is to assist Member States in the implementation of evolution to these future network architectures and technologies, in accordance with the applicable **standards** (Recommendations) **developed in ITU-T and ITU-R, for bridging the standardization gap**, making better use of and managing infrastructure and resources as well as addressing interconnection issues of emerging networks.

ITU-D mandate
WTDC-14 (continuation)

- Resolution 47 on the enhancement of knowledge and effective application of ITU Recommendations in developing countries, was revised to stress of the usefulness of ITU guidelines on the application of ITU Recommendations;

- Approval of the Recommendation ITU-D 22, "Bridging the standardization gap in association with regional groups of the study groups."

WORLD TELECOMMUNICATION DEVELOPMENT CONFERENCE 2014

WTDC 2014 UNITED ARAB EMIRATES

WTDC 2014 UNITED ARAB EMIRATES

WTDC 2014 UNITED ARAB EMIRATES

BROADBAND FOR SUSTAINABLE DEVELOPMENT

Regional Offices and BSG

ITU Regional Offices roles (Res. 44):

i) be engaged in the activities of TSB in order to promote and coordinate standardization activities in their regions to support the implementation of the relevant parts of that resolution and to carry out the objectives of the action plan, and launch campaigns to attract new Sector Members, Associates and Academia from developing countries to join ITU-T;

ii) assist the vice-chairmen, within the offices' budgets, in mobilizing members within their respective regions for increased standardization participation;

iii) organize and coordinate the activities of the regional groups of ITU-T study groups;

iv) provide the necessary assistance to the regional groups of ITU-T study groups;

v) provide assistance to the regional telecommunication organizations for the setting-up and management of regional standardization bodies,

Highlights from WTDC-14
Recomendation 22

Rec. 22: Bridging the standardization gap in association with regional groups of the study groups
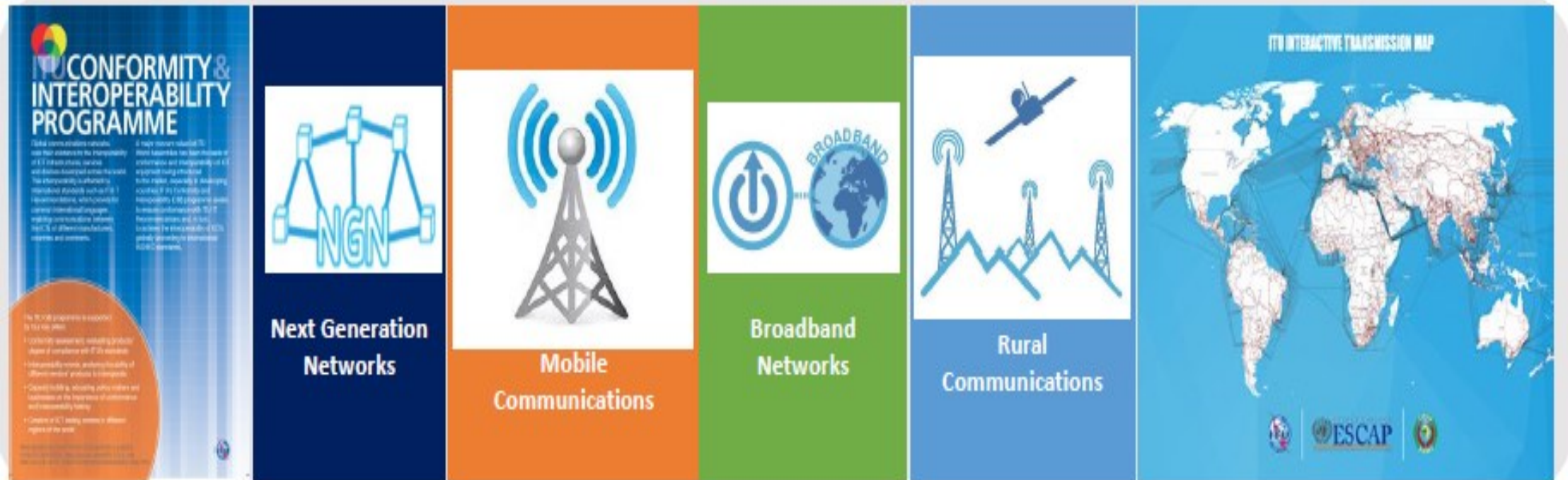
Recommends:

1. that a functional structure for regional offices be implemented to support the activities of the regional groups;

2. that there be a budget allocation to regional offices to support the activities of the regional groups and their leaderships;

3. that the result of the activities of regional groups be sent for use, as appropriate, in the ITU-D.

Requests BDT Director:

1. to implement a functional structure for the regional offices to support the activities of the regional groups;

2. to facilitate and support chairmen and vice-chairmen of ITU-T study groups from developing countries in promoting standardization activities and mobilizing members in subregional groups through workshops, seminars and forums.

BDT initiatives

BDT initiatives

Workshops

– BSG regional workshops and other regional activities are receiving support from ITU Regional Offices

Capacity Building

– ITU Academy has started collaboration with TSB to develop two online courses: Next-generation Networks; and Quality of Service

BDT initiatives

ITU new publication: Guidelines on Implementation for Evolving Telecommunication/ICT Infrastructure for Developing Countries

- The Guidelines emphasize essential telecommunication/ICT infrastructure and technologies while considering the economic and policy underpinnings of broadband use for fixed and mobile environments. Key convergence technologies such as NGN, cloud computing, and smart grid are addressed as well as related ICT standards liable for adoption by developing countries. Ultimately these guidelines will serve as a reference when considering ICT framework for greater social and economic results.

- The terms of reference are available for download. To be available by September 2014

More information on BSG

Information and Communication Infrastructure and Technology Development

SHARE

The development of digital technologies and the convergence of broadcasting, telecommunications and informatics offer sizeable opportunities for the implementation of appropriate new technologies by developing countries.

The World Telecommunication Development Conference (WTDC) held in Hyderabad (India) from 24 May to 4 June 2010 adopted, among others, the Programme 1: " Information and Communication Infrastructure and Technology Development ".

The programme assists Member States and ITU-D Sector Members to maximize the utilization of appropriate new technologies in the development of their information and communication infrastructure. The programme also assists developing countries to plan, build, operate, upgrade, manage and maintain technologies applicable in their networks and services. This includes the development of the Telecommunications and Information infrastructure and applications.

Applied research and the transfer of technological know-how will be an indispensable part of the task of expediting the access to new technologies on a non-discriminatory basis for developing countries and countries with economies in transition. The programme will be carried out by various means, including symposia, workshops, conferences, seminars and expert advice as well as information sharing, creation of tools and training material.

As issues of network reliability and quality of service continues to be of considerable interest to developing countries, the programme focuses on management issues, marketing techniques and the introduction of new services, taking into account the recent trends in the development of telecommunications, broadcasting and informatics.

PRIORITY AREAS

The following technology-related domains receive priority:

- Next Generation Networks
- Conformity and Interoperability
- Mobile Communications
- Broadband Networks

HIGHLIGHTS

- Guidelines for developing countries on establishing conformity assessment test labs in different regions
- Guidelines for the development, implementation and management of Mutual Recognition Agreements (MRAs)
- Feasibility Study for Conformance Testing Center
- Conformity and Interoperability assessment on Regional basis: Collaboration with Regional and Subregional Organizations for establishing a common C&I Regime and Mutual Recognition Agreements
- Establishing Conformity and Interoperability Regimes: Basic Guidelines

FEATURED EVENTS

- Regional Workshop for CIS on Conformance and Interoperability, 20-22 August 2014, Moscow (Russian Federation)
- Regional Forum for AMS Region: IMT Systems - Technology, Evolution and Implementation, 18-19 August 2014, Panama City (Panama)
- Training Course on Conformity and Interoperability Testing for the Africa Region, 23-27 June 2014, Tunis (Tunisia)
- More events on Technology and Network Development

additional information can be found at the ITU-D's ICT and Technology Development website.

Initiatives supporting BSG related activities in the Americas Region

Conformance And Interoperability

- **Second Workshop on Conformity and Interoperability for COMTELCA Member Countries, 5-6 December 2016, San Salvador, El Salvador**

- **Conformity and Interoperability Training for Americas Region on Type Approval testing for Mobile Terminals, NGN integration and Interoperability testing, Homologation Procedures and Market Surveillance, 27 June-1st July 2016, Campinas, Brazil**

- **Conformance and Interoperability (C&I) Validation Workshop for COMTELCA Countries and Cuba - Tegucigalpa, Honduras 7 – 9 December 2015**

- **ITU Regional Standardization Forum for Americas, 21 September 2015, Washington D.C., United States**

- **Workshop for Caribbean Region to promote the Development and Implementation of Conformance and Interoperability Programmes, 2-4 December 2014, St. Augustine (Trinidad and Tobago)**

Initiatives supporting BSG related activities in the Americas Region – C&I

Caribbean countries
In collaboration with the Caribbean Telecommunication Union (CTU), the ITU C&I Assessment Study covered the Caribbean region in 2014. The results were presented in the Sub-regional Workshop for the Caribbean, 2-4 December 2014, in Trinidad and Tobago

COMTELCA Countries and Cuba For the Central American countries (Costa Rica, Dominican Republic, El Salvador, Guatemala, Honduras, Nicaragua, Panama and Cuba), the study took place in 2015. The results of the Study were presented during the ITU C&I Workshop for COMTELCA and Cuba, 7-9 December, 2015 in Tegucigalpa, Honduras

As one of the results of the assessment and workshop held for the Caribbean was the cooperation between an ITU Academia member, CPqD with Caribbean countries in regard to homologation and testing procedures. A high level Caribbean mission visited the laboratories of the CPqD in Campinas, Brazil, during the C&I training for the region in June 2015.
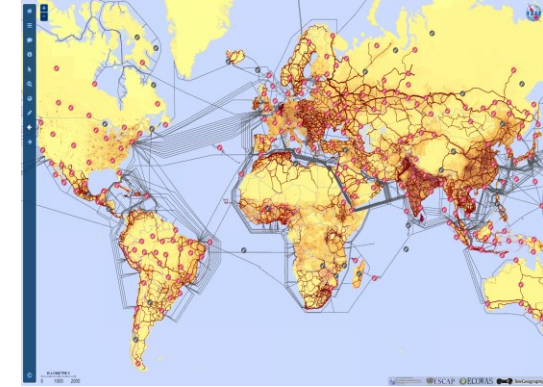
Initiatives supporting BSG related activities in the Americas Region
ITU Interactive Transmission Maps

- ITU-D continues to implement and update the ITU Interactive Terrestrial Transmission Maps online.

- The ITU Interactive Transmission Maps (for broadband backbone optical fiber, microwave links and satellite earth stations as well as submarine cables) have been continuously updated in all the Americas region and made available online.

Other Initiatives

- The plan for including IXPs on the ITU Interactive Transmission Maps is ongoing.

- Government Wide Area Networks (G-WAN)
  - Three (3) Countries benefited (Dominica, Grenada and St. Kitts & Nevis)

Initiatives supporting BSG related activities in the Americas Region

ITU Green Standards Week

- **The last two Green Standards Week were held in the Americas (Bahamas 2015; Uruguay 2016)**

- **This year's 7th Green Standards Week, from 3 to 5 April 2017 in Manizales, Colombia, the Green Standards Week is dedicated to the theme of "Circular Economy and Smart Sustainable Cities", and will be kindly hosted by the Municipality of Manizales, Colombia**

- **Launch of Bahamas Smart Island' initiative during 2016**

- **ITU/CBU E-waste Project (May 2015- Oct 2016)**

- **an assessment of the Caribbean in the areas of environmental standards, electronic waste management and recycling;**

Initiatives supporting BSG related activities in the Americas Region

Finance & IoTs

- **Workshop on Digital Financial Services and Financial Inclusion, April 19 2017 United States [Washington D.C.]**

- **Forum on Internet of Things (IOT): Smarter Living in the Caribbean, 24 - 26 April 2017 Trinidad and Tobago [Port of Spain]**

- **Digital Financial Services (DFS) Workshop 27 - 28 April, 2017, Trinidad and Tobago [Port of Spain]**

- **V Regional Forum on Interconnectivity & Reduction of telecommunication service prices and Internet access cost , 23 – 25 August, 2017 Chile [Santiago]**

THANK YOU

More information

http://www.itu.int/ict