

Preparing for the WTSA-12

**ITU Regional Seminar on Costs and Tariffs for Member Countries
of the Regional Group for Asia and Oceania (SG3RG-AO)**

Bali, Indonesia, 28-30 May 2012

**Kishik PARK, Ph.D.
Chairman, ITU-T Study Group3**

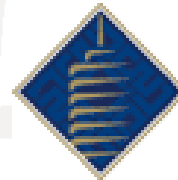
*** This presentation script was modified based on the draft of ITU TSB.**

Committed to connecting the world



WTSA-12: Date and venue

- 20-29 November 2012
 - 19 Nov GSS and 3-14 Dec WCIT
- Dubai World Trade Centre, UAE



مركز دبي التجاري العالمي
DUBAI WORLD TRADE CENTRE

Outline

- Guide to WTSA-12
- Preparatory Process
- Hot Topics
- Work Method Issues
- APT Regional Preparation

(Annex) Implementation of WTSA-08 Resolutions

What is WTSA?

- WTSA sets direction, policy and **structure for ITU-T**
 - Meets every four years
 - Defines the general policy for the Sector
 - Establishes the ITU-T study groups
 - Approves work program of study groups
 - Appoints chairmen and vice-chairmen of ITU-T study groups
 - Reviews existing WTSA Resolutions (49)

Main objectives of WTSA

- Underline ITU-T's role as the most effective venue for international standardization
- Pick up new work on emerging technologies
- Increase efficiency in order to make best use of delegate time and resources
- Avoid duplication and overlap of work
- Increase participation and relevance

Who can participate?

- Member States and Sector Members
- Observers:
 - Regional telecom organizations
 - Intergovernmental organizations operating satellite systems
 - Any other regional or international organizations dealing with matters of interest
 - UN and specialized agencies of UN and IAEA
- ITU elected officials in advisory capacity
- Director TSB can make proposals

WTSA Proposed Structure

- COM 1: Steering Committee
- COM 2: Budget Control
- COM 3: Working methods of ITU-T
- COM 4: Work programme and organization
- COM 5: Editorial Committee

- The Plenary may set up other Committees

Practical Matters

- Contributions requested preferably two months in advance (**20 Sept.**) and no later than 14 calendar days before opening of Assembly (**6 Nov.**)
- Paperless meetings, but MS can request two and SM can request one paper copy
- Joint registration system for WTSA and WCIT through focal points starting 20 August
- One full or two partial fellowships for eligible countries

WTSA Side Events and Exhibition

- Three Side Events:
 - e-Health
 - ICT innovation and standards (coupled with academia event)
 - Network resilience and disaster relief
- Exhibition
 - Goal: 5-10 companies
 - Showcase IPTV, others

Committed to connecting the world

ITU-T Snapshot in 2012

- 10 study groups
- 6 focus groups (3 established at Jan 2012 TSAG)
- 9 Joint Coordination Activities
- 2 Global Standards Initiatives (IPTV, IoT)
- 250 standards/year
- 250 Rapporteurs
- 1000 Editors

Candidatures

- WTSA Resolution 35 "...a maximum time in office of approximately eight years for study group and TSAG chairmen and vice-chairmen..."
 - Current chairs that cannot be re-elected for a second term are SG 2, SG 3, SG 15 * [SG12, TSAG]
- Objectives: to maintain level of expertise and momentum
- Expected results
 - Nomination of capable chairmen
 - Regional/Geographical representation
- TSB Circular 251 sent on 24 January inviting candidates by **20 September** *Japan

Committed to connecting the world

Prior to WTSA-12

Committed to connecting the world

Regional preparation meetings

- ITU organizing back-to-back meetings for WTSA/WCIT Preparations (March-May 2012)
 - RCC/Tashkent: 2-6 April
 - Arab States/Egypt: 28 April–1 May
 - Americas/Buenos Aires: 14-15 May
 - Africa/Durban: 21-24 May
- Sector Members from the region can participate in the regional preparatory meetings
- Fellowships available for RPMs

Global Standards Symposium

- Monday, 19 Nov 2012

- Themes:

- Bridging the standardization gap: from innovation to standards
- Global Standards Challenges
 - e.g., e-health; resilience of networks to disasters
- Global Standards Collaboration: Roundtable

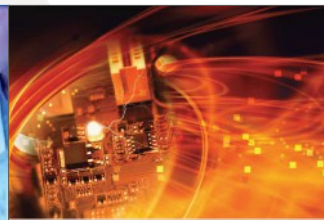


Hot Topics

Committed to connecting the world

Technology Watch: Identifying the Hot Topics

- Output contributed to creation of new Focus Groups, Study Group Questions, workshops, discussions, etc.
- Widely recognized inside and outside ITU
- Open to contributions and topic proposals



Decreasing Driver Distraction

ITU-T Technology Watch Report
August 2010

Safety, mobility, and other issues with available information and communication systems while driving is a serious issue in many countries and increasing the risk of traffic accidents. Technology research and development is a global problem that has led to the development of 12 different proposals for road vehicles each year. The ITU-T Technology Watch Report provides an overview of technology, current driver distraction and its consequences, guidelines and standards regarding driving through the use of vehicle information and communication systems for driving.



ICT as an Enabler for Smart Water Management

ITU-T Technology Watch Report
October 2010

Smart water management technologies have a great impact for the 21st century. In general, smart water management is the ability of already existing water infrastructures to collect, analyze, and act on data from sensors, monitoring, and control systems. Smart water management is a combination of different technologies, such as intelligent devices and sensors, mobile networks, and monitoring the situation. The ITU-T Technology Watch Report provides an overview of smart water management, its benefits, and its challenges. It also provides a list of smart water management technologies and standards that will enable smart water management.



Using Submarine Communications Networks to Monitor the Climate

ITU-T Technology Watch Report
November 2010

The ITU-T Technology Watch Report gives an overview of how global submarine networks could be used for climate monitoring. It also provides a list of submarine networks and standards that will enable climate monitoring. The ITU-T Technology Watch Report provides an overview of submarine networks, their benefits, and their challenges. It also provides a list of submarine networks and standards that will enable climate monitoring.



Standards and eHealth

ITU-T Technology Watch Report
January 2011

The ITU-T Technology Watch Report gives an overview of how global submarine networks could be used for climate monitoring. It also provides a list of submarine networks and standards that will enable climate monitoring. The ITU-T Technology Watch Report provides an overview of submarine networks, their benefits, and their challenges. It also provides a list of submarine networks and standards that will enable climate monitoring.



The Optical World

ITU-T Technology Watch Report
June 2011

The use of optical technologies in computing is very promising and the focus is still on to support the bandwidth requirements of metropolitan networks, their processing and the expansion of the network. Optical technologies are expected in the area of optical computing, data processing, communication and network control which could lead to large changes in the way computing, networking, and data centers are designed. The ITU-T Technology Watch Report provides an overview of the optical world and network computing, and network computing that will lead to a new generation of network and computing architectures.



Trends in Video Games and Gaming

ITU-T Technology Watch Report
September 2011

Video gaming is a global phenomenon. It has become a multi-billion dollar business, selling more than any other product. The ITU-T Technology Watch Report surveys some of the latest developments in the world of video games, from the first commercial games to the latest and highlights new technologies making video gaming experience and increasing interactivity between players.





Conformance and Interoperability Testing

Business plan:

- KPMG to present at Council-12 (July)

Conformity database

- About to receive first entries

Interoperability events

- Identify new customers/technologies

Capacity building

- In cooperation with BDT, additional forums in 2012

Assistance in the establishment of test facilities

ICTs and Climate Change

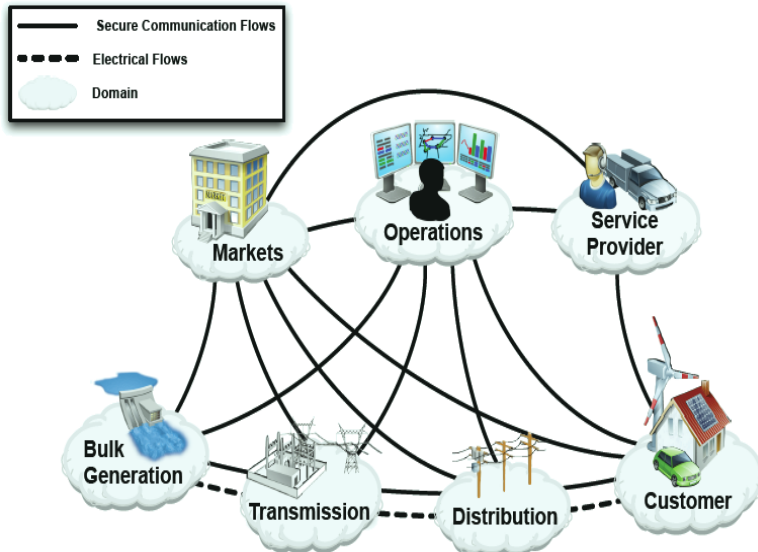
- ITU-T Universal charger: future versions to cover ICT devices other than mobile phone
- ITU-T Methodologies to assess ICT carbon footprint to be completed in 2012
- To come: standard on guidelines for recycling rare-metals in ICT products
- Joint task force with WMO and UNESCO on the use of submarine cables to monitor climate and provide tsunami warning
- 2nd ITU Green ICT Apps Challenge launched



Smart Grid



- Electric Grid Transport & Distribution Communication Standards
- Optimization of facility usage
- Integration of renewable energy sources, which are distributed and less stable
- Integration of electric vehicles



NIST Smart Grid Framework 1.0 January 2010

Committed to connecting the world

Disaster Relief

- New Focus Group on standards for Network Resilience and Recovery from disasters
- Focus:
 - (1) disaster relief for individuals (to notify the damage situation from victims to their relatives, friends, or employers)
 - (2) disaster relief guidance (to show victims the routes to evacuation shelters, home, etc.).

Internet Access through ITU standards

- Access:

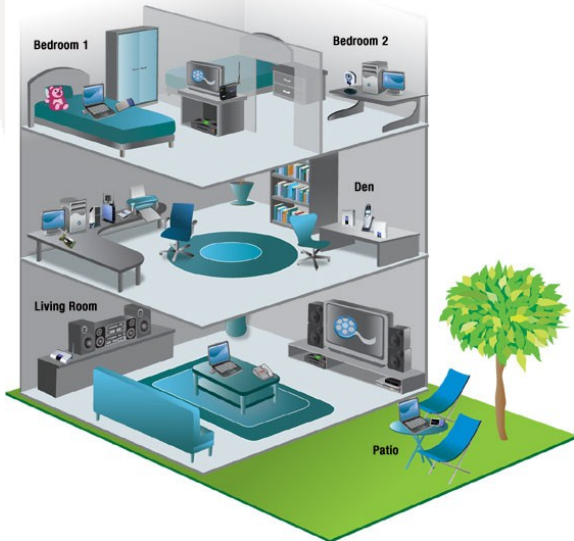
- ADSL: ITU-T G.992

- Powerline Transmission:
ITU-T G.9960 (G.hn)

- FTTX (Fibre to the <x>):

- GPON (Gigabit Passive Optical Networks) ITU-T G.984

- Bendable fibers: ITU-T G.657



Optical Transport

- 95% of all international traffic runs over fibre = ITU-standards
 - MPLS-TP
 - Carrier Ethernet: ITU-T Y.1731
 - Synchronization: Mobile Backhaul
 - Optical Transport Networks from TDM to Packet
 - Optical fibres, cables and systems
 - SDH: ITU-T G.707



e-Health

- Chief Technology Officer (CTO) request to accelerate work
- Protocol to relay biometric info, connecting doctors with patients in remote locations
- Requirements and network capabilities for e-health monitoring applications
- Workshop with World Health Organization (WHO) April 2012



Accessibility

- PP-10 Res 175 ... accessibility for persons with disabilities...
- ITU provides accessibility to ICTs, and to ITU facilities for participants with visual, hearing or physical disabilities
- Voluntary fund to assist disabled participants
- Focus Group Audio Visual Media Accessibility



Internet of Things (IoT)/ Machine-to-Machine communications

- ITU's Global Standards Initiative on IoT started May in 2011
- ITU-T Focus Group M2M Service Layers created Jan 2012
 - Focus initially on e-health
 - 1st meeting April 2012
 - WHO/ITU Workshop on e-health standards and interoperability

Cloud Computing



- Growth opportunity for Telcos
- Opportunity for developing countries
- Security, Audit, and Privacy
- Cloud Computing picks up a lot of activity in ITU



The Economist, Oct 2009

Cybersecurity & Identity



The Economist, July 2010



- Strengthen the confidence and security in the use of ICTs
- Strengthen cybersecurity and combat cyber threats
- Identity Management
- Child Online Protection
- Cybersecurity Information Exchange Framework (CYBEX)

Intelligent Transport Systems



- In-Vehicle Multimedia applications and services
- Climate Change
- Electric Vehicles
- Road Safety
- Driver Distraction



Multimedia: Prime Time Emmy Award for ITU standards

YouTube



- Advanced video coding:
ITU-T H.264
 - Used to compress billions of clips on YouTube, high-definition content on Blu-ray Discs
- New work:
 - Joint Collaborative Team (ITU-T, ISO/IEC) to reduce data rate by 50%

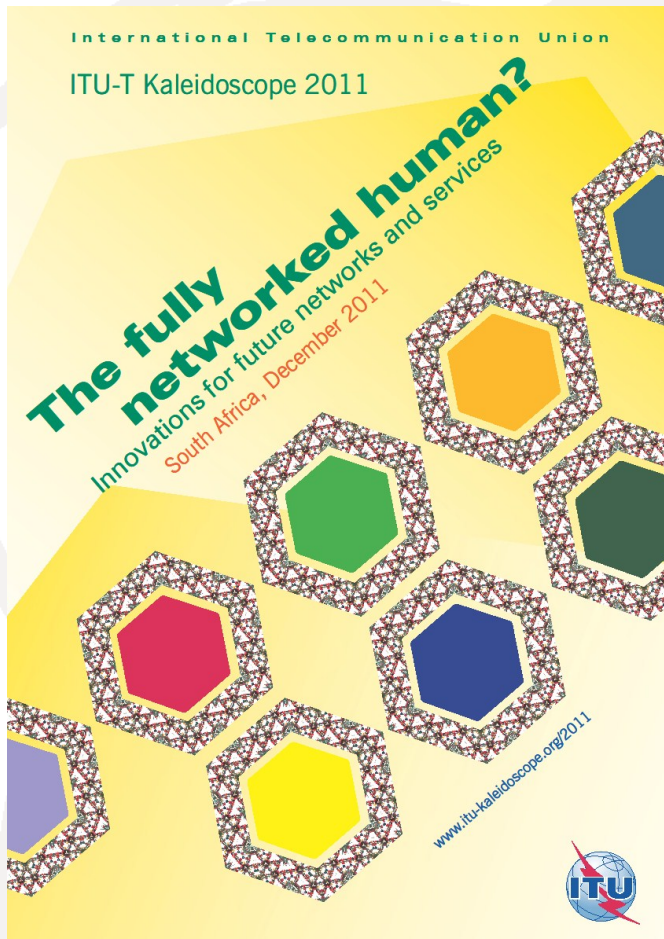


IPTV



- ITU-T suite of IPTV standards
- ITU organized interoperability testing events and showcasing events in Geneva, Singapore, India, Brazil, United Arab Emirates
- Demo at WTSA-12
- 2nd IPTV Application Challenge to be launched – prizes at WTSA

Involving future engineers



- Academia and universities can participate in the work of ITU at a reduced fee
- Kaleidoscope events
 - International events bringing academia and industry together
 - Rigorous, double-blind, peer-review process

Expected Tariff and Accounting Issues

- Proposal for WTSA Resolution calling for practical implementation D.156(Network Externalities)
- Proposal to revise D.195 (Time-scale for settlement of accounts for international telecommunication services)
 - 50 to 30 days
 - <SG3RG-AFR Proposal>

Major issues related to working methods of ITU-T

- Current discussions
- International collaboration platform mechanisms

Current discussions

Committed to connecting the world

Work methods inventory-1

- WTSA-08 Resolution 1 – in particular
 - §7: Procedure for new/revised Questions
 - §8: Selection of approval process (AAP vs TAP)
 - §9: Traditional approval process
- A-series Recommendations
 - A.1: Work methods for ITU-T study groups
 - A.7: Focus groups: Working methods and procedures
 - A.8: Alternative approval process

Work methods inventory-2

- A-series Recommendations (cont'd)
 - A.4: Communication process between ITU-T and Forums and Consortia
 - A.5: Referencing documents of other organizations in ITU-T Recommendations
 - A.6: Cooperation and exchange of information with national and regional standards development organizations
 - A.23: Collaboration with ISO/IEC JTC1

ITU-T A.4, A.5, and A.6

- Scopes:
 - A.4 - Communication between ITU-T and Forums and Consortia
 - A.6 - Cooperation and exchange of information between ITU-T and national and regional standards development organizations
 - A.5 - References to documents of other organizations in ITU-T Recommendations
- Issues
 - Nested referencing not addressed in A.5
 - Discussions on updating A-Series Supplement 3 may lead to clarifications in A.4

ITU-T A.7

- Focus groups: Working methods and procedures
- Scope
 - Defines the rules for ITU-T FGs
- Current issues
 - Refinement of rules based on recent experience
 - Funding of FG activities

Collaboration mechanisms

Committed to connecting the world

Current ITU-T collaboration toolbox

- Inter-SG collaboration
 - JCAs (high-level coordination on a theme – e.g. IPTV, IoT, NGN)
 - GSI (technical work in co-located “thematic” Rapporteur Group meetings)
- Reaching across to other ITU Sectors and external organizations
 - ITU-T A.23: Only with JTC1
 - Focus Groups

Get involved

- Regional preparatory meetings proven platform
- Regional groups should coordinate common proposals
- TSAG meeting
 - Virtual meeting 17-18 April (2 hours daily)
 - **2 – 4 (am) July 2012 in Geneva**

APT Preparations for WTSA-12

Committed to connecting the world

First APT Preparatory Meeting for WTSA-12

- Held on 27 May 2011 immediately following the 19th ASTAP.
- Agreed on the structure and selected key office bearers.
 - APT Preparatory Group for WTSA-12 consists of the Plenary and 4 Correspondence Groups.
 - The Preparatory Group is headed by a Chairman supported by Three Vice-Chairmen.
 - The Correspondence Groups will be headed by a Rapporteur and supported by Assistant Rapporteurs.

Structure of the APT Preparatory Group

	Scope of Work
Correspondence Group 1	ITU-T Working Methods
Correspondence Group 2	Strategic Standardization Issues and ITU-T Study Group Structure
Correspondence Group 3	Issues for Developing Countries
Correspondence Group 4	Regulatory/Policy, Global Standards Symposium and Other Issues

Leadership of the APT Preparatory Group

	Chair: Dr. Syed Mustafa Safavi Hemami, IRAN (Islamic Rep. of)
	Vice Chairs: Ms. Xu Weiling, PR China Ms. Michiko Fukahori, Japan Dr. Kishik Park, Rep. of Korea
CG1	Raportuer: Mr. Seiichi Tsugawa, Japan Asst. Rapporteurs: Mr. Zhao Shizhuo, PR China Mr. Peter Kim, Rep. of Korea Dr. Naranmandakh Tumen-Ulzii, Mongolia
CG2	Raportuers: Mr. Yoshinori Goto, Japan Dr. Byoung Nam Lee, Rep. of Korea Asst. Rapporteurs: Ms. Zhang Jie, PR China Ms. Suvdaa Khadaa, Mongolia

Leadership of the APT Preparatory Group (cont'd)

CG3

Raportuer: Dr. Otgonchimeg Buyanjargal, Mongolia
Asst. Rapporteurs: Mr. Asim Jameel, Pakistan
Mr. Kila Gulo-Vui, Papua New Guinea
Mr. L. Ganeshamoorthy, Sri Lanka
Ms. Nguyen Thi Khanh Thuan, Vietnam

CG4

Raportuer: Ms. Maria Andrea Hernandez, Philippines
Asst. Rapporteurs: Mr. Matt Lopez, Japan
Dr. Samyoung Chung, Korea
Ms. Oyunchimeg Shagjjambaa, Mongolia

Consecutive meetings of APT Preparatory Group

- **2nd Meeting: 27-28 October 2011, Philippines**
 - ✓ Held immediately after the ASTAP-19 meeting.
 - ✓ Discussed and developed issue papers for consideration in the 3rd meeting.
- **3rd Meeting: 19-21 March 2012, Australia**
 - ✓ Developed draft proposals for WTSA-12 based on the issue papers and contributions from members.
- **4th Meeting: August 2012 (Thailand) * final**
 - ✓ Will finalize any proposals to WTSA-12. Will discuss on coordination arrangements during WTSA-12.
 - ✓ Will discuss on proposal from other regions and countries
 - ✓ Will decide on the position of APT countries.

Some of the issues identified by the Preparatory Group

- Improving working methods of the ITU-T sector including remote participation of meetings
- Structure of Study Groups
- JCA and GSI
- Outcome of PP-10
- Bridging the Standardization Gap (BSG)
- New study items on
 - ✓ ICT and Climate Change
 - ✓ Conformance and Interoperability
 - ✓ Future Networks
 - ✓ Smart Grid
 - ✓ Internet of Things (IoT)

Thanks for your Attention !



For any further questions:

Dr. Kishik PARK / ITU-T SG3 Chairman

Tel: +82 42 860 6041, Fax: +82 42 860 6504

E-mail: kipark@itu.int, kipark@etri.re.kr

(Appendix)

Implementation of WTSA-08 Resolutions

Committed to connecting the world

WTSA-08



- ICTs and climate change
- Deployment of IPv6
- Accessibility to ICTs
- Conformance and interoperability
- Encouraging academic and developing country participation
- Major reorganization of the Study Groups
- Reduced fees for SMs from developing countries

WTSA-08 Action Plan where are we?

- Reporting tool to keep membership informed
- Now at Version 7 (Sept 2011)
- Lists responsible TSB staff member, deadlines
- Details actions taken and results achieved
- URLs
 - itu.int/dms_pub/itu-t/oth/26/01/T260100504E0007XLSE.xls
 - itu.int/dms_pub/itu-t/oth/26/01/T260100504E0007MSWE.doc

WTSA-08 Action Plan – Metrics

- 49 Resolutions (21 new, 28 revised)
- 189 Action Items for 49 Resolutions, under 22 TSB staff
 - 40 Resolutions have 120 Action Items for TSB & Director
 - 24 Resolutions have 41 Action Items for SGs
 - 18 Resolutions have 30 Action Items for TSAG
 - 24 Resolutions have 46 Action Items in coop with sectors/GS
- Status Report (September 2011)
 - 103 Action Items are completed (54%)
 - 54 with ongoing activities are progressing on target (29%)
 - 22, mostly for WTSA-12, to be initiated (12%)
 - 10 pending (5%)

WTSA-08 Action Plan

Supporting Sector Objectives

- Bridging the Standardization Gap Action Items on:
 - Workshops; regional groups, activities and coordination; Conformance and Interoperability; Computer Incident Response Teams (CIRTs); training; remote participation
- Standardization Action Items on:
 - EWMs; security; ICT and Climate Change; external and internal cooperation; strategic activities (e.g. new FGs, JCAs); accessibility; academia participation
- Disseminating Information Action Items on:
 - Allocation and management of network resources (e.g. numbering); accessibility; IPv6; Seminar Coordination Committee; Technology Watch; Vocabulary Committee

Bridging the Standardization Gap

- One of the three strategic goals of ITU-T
- BSG Fund for 2011: CHF 239,000

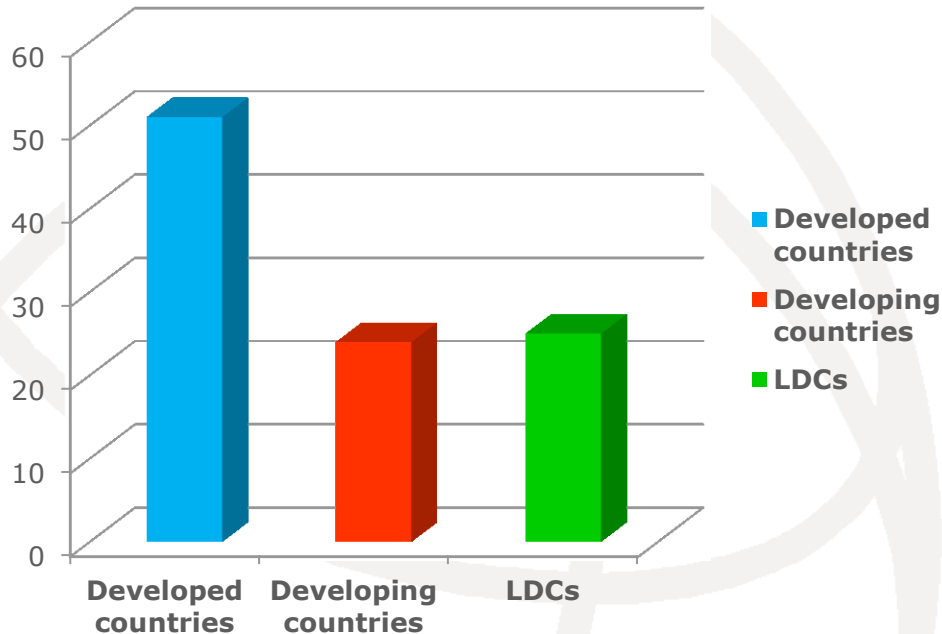
(Korean Communications Commission, NSN, Microsoft, Cisco)



- Reduced membership fees (CHF 3,975 PA)
- Manuals and handbooks on ITU-T Recommendations
 - Handbook on Testing (2011), Convergent Networks (2010), ITU-T Manual on Optical Transport Networks from TDM to Packet (2010) , DSL Story (2010)
- Standards Q&A Online Forum and New Focus Group
- Mentoring program for newcomers, fellowships
- Remote participation and meetings in region
- 40 new countries participating

Committed to connecting the world

Developing country participation in WTSA-08



Based on participation of 99 Member States

Traditional areas of strength

- Network infrastructure: optical transport
- Access technologies
- Quality of Service (QoS) and network management
- Numbering
- Economic and policy issues
- Emergency telecoms
- Multimedia codecs (voice, video)

ITU-T should strengthen presence in certain areas

- e-Health
- Accessibility
- ICTs and climate change
- Internet of Things/M2M
- Intelligent Transport Systems
- Cybersecurity including Identity management
- IPTV, cloud computing and smart grid
- Conformity and interoperability