Broadband Business Forum/EXPO COMM Italia 2009 Rome, Italy, 24 – 25 November 2009

Overview of ITU's Telecommunication Standardization Sector (ITU-T) in the light of the main results of the World Telecommunication Standardization Assembly (WTSA-08)

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ITU's role in global communications

Every time someone

- Picks up a telephone and dials a number

- Answers a call on a mobile

- Sends a fax

- Receives an e-mail

- Takes a plane or a ship

- Listens to the radio

- Watches a favourite television programme

Benefits from the universal telecommunication and ICT frameworks put in place by ITU.

ITU International Telecommunication Union

Who we are

- Leading United Nations agency for **Information and Communication Technology (ICT) issues**

- Global focal point for governments and the private sector in developing networks and services

For nearly 145 years, ITU has

- coordinated the shared global use of the radio spectrum

- promoted international cooperation in assigning satellite orbits

- worked to improve telecommunication infrastructure in the developing world

- established the worldwide standards that foster seamless interconnection of a vast range of communications systems

- addressed the global challenges of our times

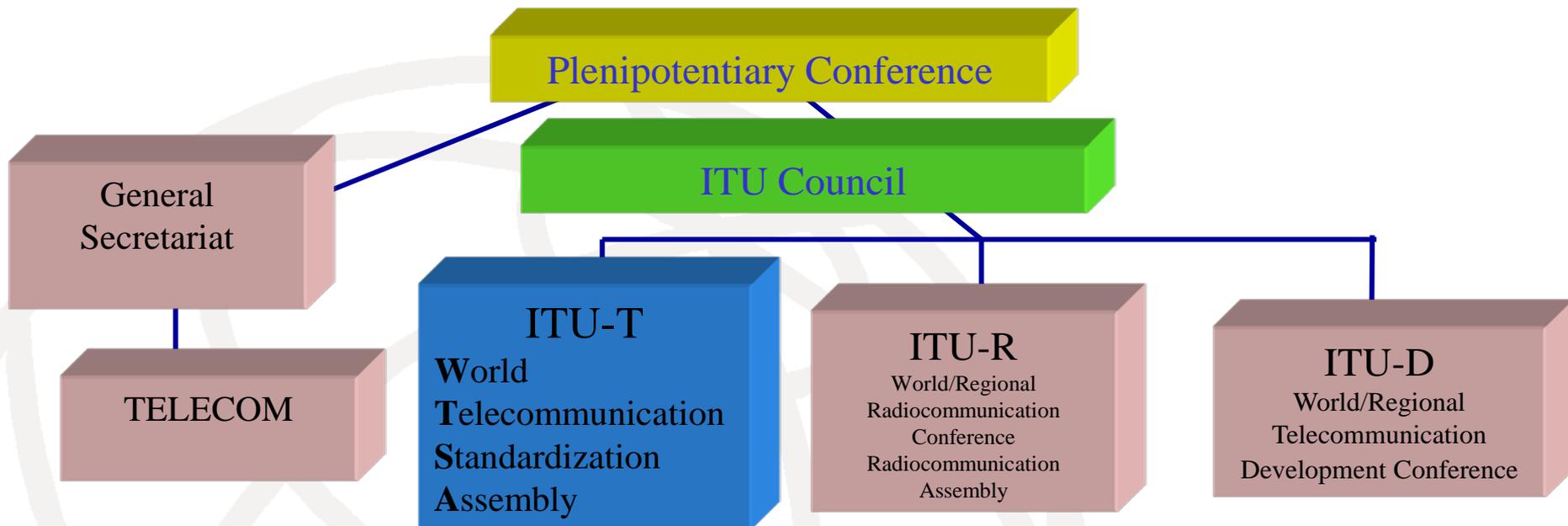ITU International Telecommunication Union

ITU is committed to connecting the world

- Broadband Internet
- Latest-generation wireless technologies
- Aeronautical and maritime navigation
- Radio astronomy
- Satellite-based meteorology
- Convergence in fixed-mobile phone
- Internet access
- Data
- Voice
- TV broadcasting
- Next-generation networks

ITU is based in Geneva, Switzerland, and its membership includes **191 Member States and more than 700 Sector Members and Associates**.

ITU Structure

Plenipotentiary Conference

ITU Council

General Secretariat

TELECOM

ITU-T
World **T**elecommunication **S**tandardization **A**ssembly

ITU-R
World/Regional Radiocommunication Conference Radiocommunication Assembly

ITU-D
World/Regional Telecommunication Development Conference

ITU-T: Defines and adopts the globally agreed technical standards that allow industry to interconnect people and equipment seamlessly around the world

ITU-R: Manages the international radio-frequency spectrum and satellite orbit resources

ITU-D: Uses and deploys telecom networks and services in developing countries and countries with economy in transition

Gen. Sec.: Coordinates the Union's activities and the overall management of the Union

TELECOM: Brings together the top names from across the ICT industry as well as ministers and regulators and many more for a major exhibition, a high-level forum and a host of other opportunities.

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ITU-T in brief

- Creator of the world's most universally-recognized infocommunications standards

- In 2007 alone, ITU's Telecommunication Standardization Sector (ITU-T) produced over 160 new and revised standards (**ITU-T Recommendations**), covering everything from core network functionality and broadband to next-generation services like IPTV.

- **ITU-T Recommendations** are defining elements in information and communication technology (ICT) infrastructure

- Whether we exchange voice, data or video messages, communications cannot take place without standards linking the sender and the receiver

- Today's work extends well beyond the traditional areas of telephony to encompass a far wider range of information and communications technologies

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ITU-T the place for standards

Universal International Freephone Numbers (800- numbers)

Tariff & Accounting

Cybersecurity

Assignment of International Country Codes

ADSL, VDSL and optical access to Internet

Video Coding for DVD 3G phones and video-conferencing: **2008 Emmy Award H.264**

optical networks

Accessibility

Emergency

Climate change

ITU-T

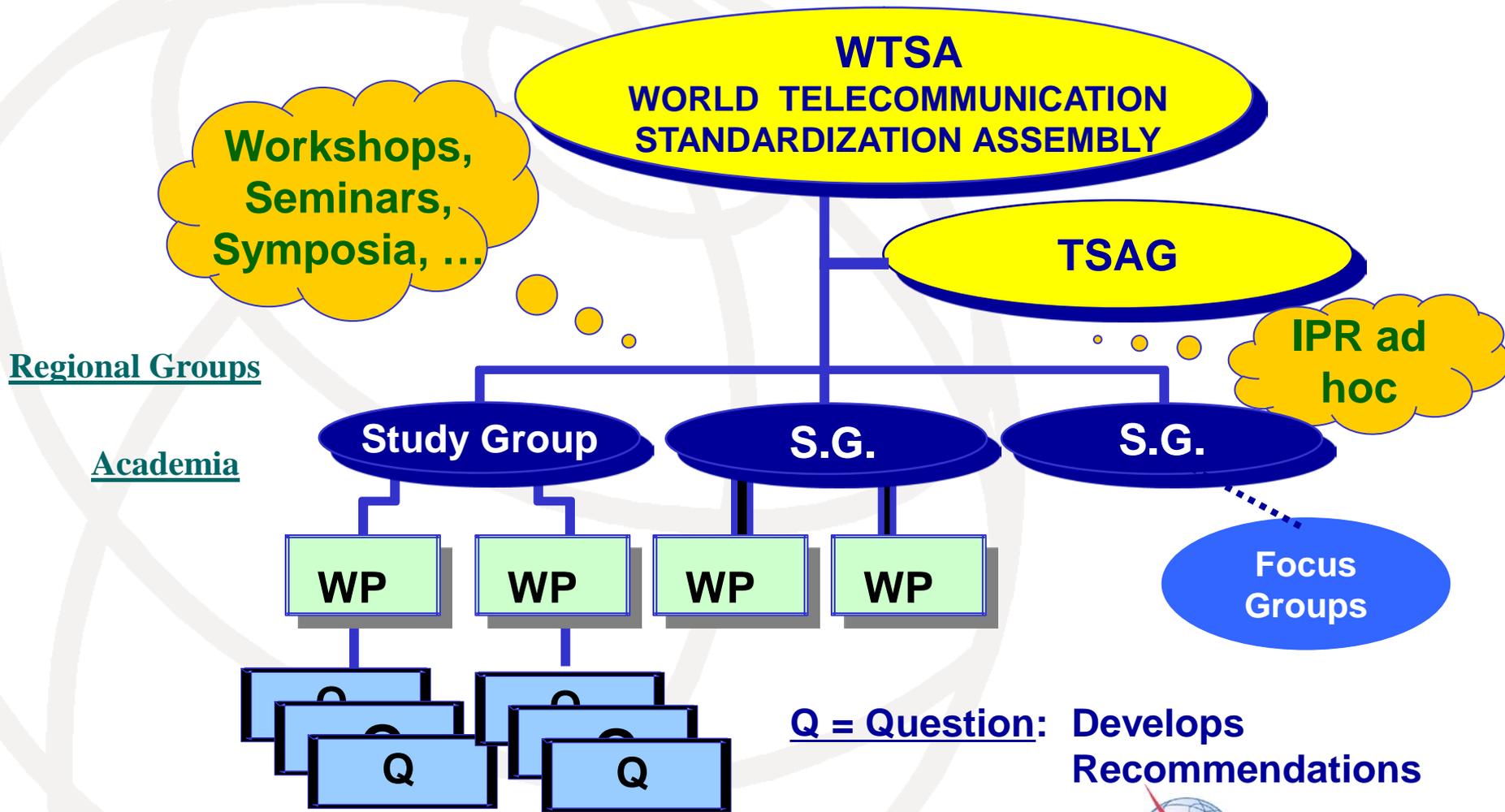International Telecommunication Union

Last success stories

- Emmy Award Revolutionary video standard — H.264 / MPEG-4 US TV

  Academy - Hollywood

- Access Network for Internet (ADSL, VDSL, Passive Optical Networks)

- Just Arrived: Unified charger for mobile phones, micro-USB
  - 50% less energy consumption
  - 14 million tons less of CO_2
  - 50.000 tons less waste
  - benefits to environment and climate change

ITU-T Structure (SG)

WTSA
WORLD TELECOMMUNICATION STANDARDIZATION ASSEMBLY

Workshops, Seminars, Symposia, …

TSAG

IPR ad hoc

Regional Groups

Academia

Study Group

S.G.

S.G.

WP WP WP WP

Focus Groups

Q Q
Q Q

Q = Question: Develops Recommendations

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WTSA Background

- Regular four yearly event that defines the next period of study for ITU-T.
- South Africa kindly hosted the event in 2008.
- Preparations for WTSA-08 took place throughout 2008 notably in regional preparatory meetings aimed at coordinating countries' views on priorities.

Hot issues:

- Study Group restructuring
- Reviewing / new Resolutions
- Bridging the Standardization Gap in developing countries

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WTSA-08 Resolutions

- 49 Resolutions approved

- 21 are new Resolutions

- Resolutions taking into consideration the needs of developing countries

  - Standardization gap: 17, 44, 56, 59, 72

  - Internet: 64, 69

  - Conformance and interoperability testing: 76

  - Other: 26, 29, 31, 32, 34, 35, 43, (50), 52, 53, 54, 58, 61, 63, 68, 71, 73, 74

WTSA-08 Resolutions: Organization and Working Methods

- 18 Resolutions:
1,2, 18,22,26, 31,32,35,38,40,43, 45,53,56,57,66, 67, 68 ....

- ... and Series-A Recommendations

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WTSA-08 Resolutions: Strategies and Cooperation

- 16 Resolutions concerning strategies and cooperation:

  7,11,**17**,33,34,**44**, 54,55,**58**,**59**,62,69, 70,71,**74**, 75

- They call attention of **developed countries** to the need to help and assist developing countries BUT they also call attention of **developing countries** to put in place structures able to better contribute.....

WTSA-08 Resolutions Technical issues

- 15 Resolutions for operational and technical issues: 20,29,47,48,49,50,52, 60,61,63,64,65,72,73, 76

- Study Groups activities to produce Recommendations, handbooks, supplements...

- Hot topics:
cybersecurity
NGN
Climate change
Accessibility
Home Networking
Future Networks
ITU Conformity Mark

Actions from Resolutions

- Member States, Sector Members & Associates

- Cooperation with other ITU Sectors

- Considerations by the Council

- Actions for the Study Groups

- TSB Director
  - Implementation by TSB
  - Objectives
  - Expected benefits

Implementation by TSB

- TSB Action Plan

- Increased meetings in the regions (SGs workshops)

- Cooperation with the ITU Development Sector, Regional Offices and Regional Organizations

- Fellowships now available for all ITU-T study group meetings

- Production of handbooks on implementation of Recs (fibre optics, accessibility)

- Financial implications of WTSA-08 decisions incorporated in draft budget and presented to Council

WTSA-08 Action Plan
(TD 18/TSAG)

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S
1	WTSA-08 Action Plan, Version 1.0, 19 April 2009																		
2							Action by:						Collaboration with:			Report to:			
3	Res #	Title	TSB contact	Action item #	Action	Milestone	TSB	Gen-Sec	MS	SM	SG	TSAG	GS	BDT	BR	Council	WTSA-12	TSAG	Status
115	64	Resolution 64 - IP address allocation and encouraging the deployment of IPv6	Yang	64-1	SG2 and SG3 to study allocation and economic aspects of IP addresses	ongoing					SG2								
116	64	Resolution 64 - IP address allocation and encouraging the deployment of IPv6	Yang	64-2	SG2 and SG3 to study allocation and economic aspects of IP addresses	ongoing					SG3								
117	64	Resolution 64 - IP address allocation and encouraging the deployment of IPv6	Yang	64-3	Director, in collaboration with BDT Director, to initiate a project to assist developing countries, responding to their regional needs as identified by BDT; will work in close collaboration with BDT ICT application and cybersecurity division. Project will be managed by BDT.	ongoing	TSB							BDT					
118	64	Resolution 64 - IP address allocation and encouraging the deployment of IPv6	Yang	64-4	TSB to develop website that provides information on global activities related to IPv6 and to training events.	01-May-09	TSB												about to be published
119	64	Resolution 64 - IP address allocation and encouraging the deployment of IPv6	Yang	64-5	Director to issue Circular 30 (27 March 2009) Questionnaire to MSs, SMs, As, on IPv6 address allocation and encouraging the deployment of IPv6; reply by 12 June 2009	27-Mar-09	TSB												Circular Letter issued
120	64	Resolution 64 - IP address allocation and encouraging the deployment of IPv6	Yang	64-6	Director, in collaboration with BDT Director, to promote awareness of importance of IPv6 deployment, facilitate training activites, and provide information to developing countries. Promotion activities will be under BDT.	ongoing	TSB							BDT					
121	64	Resolution 64 - IP address allocation and encouraging the deployment of IPv6	Yang	64-7	Director to report to Council-09 on question of IPv6 address allocation and registration for interested members and especially developing countries	15-Aug-09	TSB									C-09			Reporting to Council-09 also mentioned in TSB Circular 30 (27 March 2009)

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Objectives

- Reduce the Standardization gap and the digital divide

- Implement WTSA-08 and prepare to WTSA-12

- Regional and sub-regional cooperation for standards, conformity assessment and interoperability

- Consider the 2015 objectives of WSIS: connect the world project

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Expected benefits

- Rational utilization of technologies

- Effectiveness of Information

- Contribution to share knowledge

- Motivation of universities and R&D institutions

- Facilitate technology and regulatory strategic choices

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Some Key Resolutions

- **Resolutions 71 & 74** - **Admission of academia, universities and their associated research establishments, Sector Members from least developing countries to participate in the work of ITU-T**

  - *Proposals for about 1,800 USD/year [Academia] and for about 3,600 USD [Sector Members from LDC] will be analyzed by FINREG (Financial Regulations and other related Financial Management Issues) at next meeting 26 to 27 January 2010 to report to Council April 2010. Council should forward recommendations to PP-10. Contributions are welcome*

- **Resolution 76** - **Studies related to conformance and interoperability testing, assistance to developing countries, and a possible future ITU mark programme**

  - *Council 09 endorsed proposals to develop a programme for capacity building, the establishment of test centres in the regions and a public database of products conform to ITU-T standards or interoperable between different vendors.*
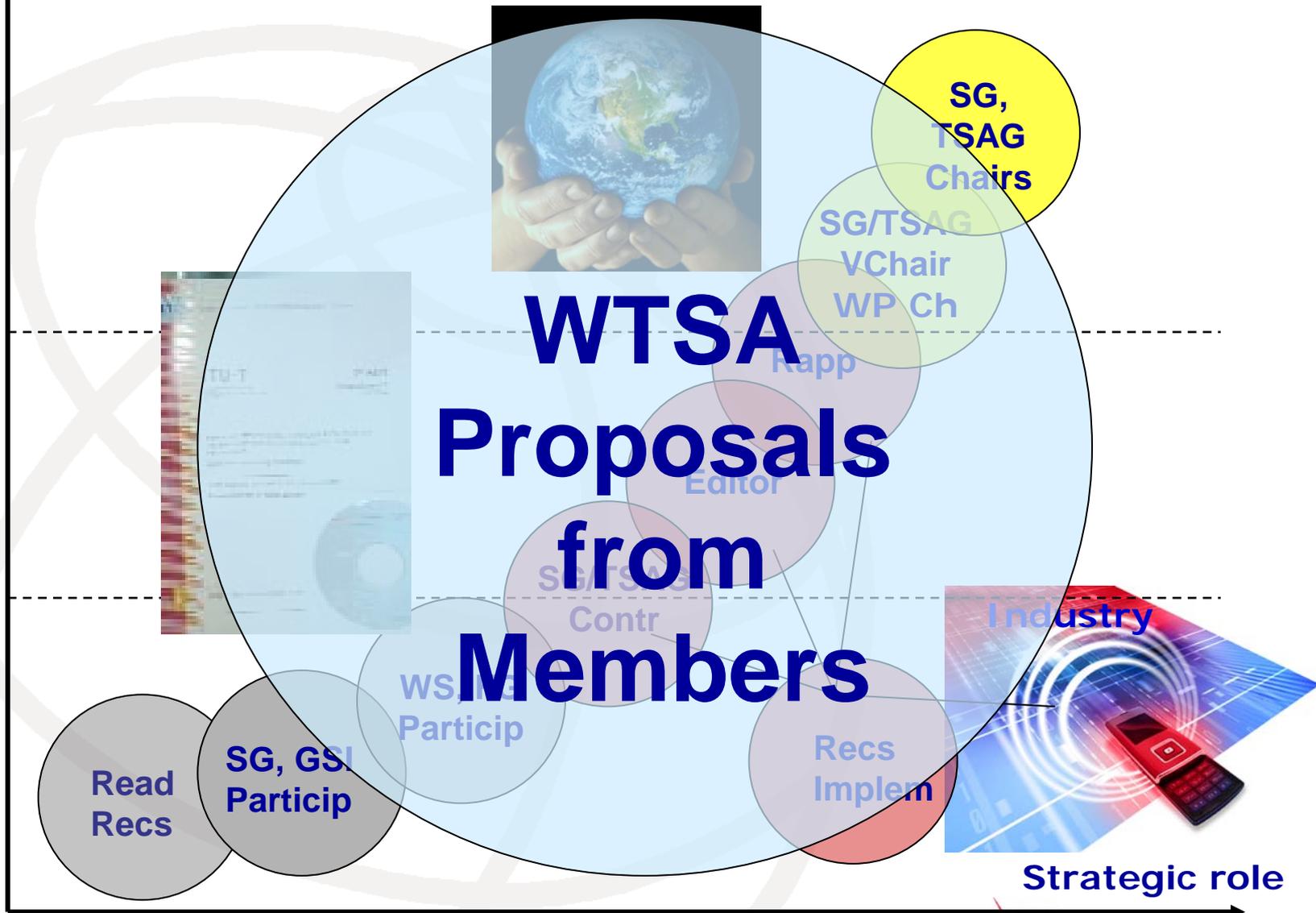
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Where are you?

Commitment

HIGH

MEDIUM

LOW

Strategic role

WTSA Proposals from Members

SG, TSAG Chairs

SG/TSAG VChair WP Ch

Rapp

Editor

SG/TSAG Contr

WSIS Particip

Industry

Read Recs

SG, GSI Particip

Recs Implem

Conclusions

- The results of WTSA put ITU in excellent shape to tackle the challenges ahead.

- TSB has immediately put in place many mechanisms to progress the implementation of WTSA-08 Resolutions. Many of them require close cooperation with BDT.

- Particular attention is given to those actions relevant to the needs of developing countries.

Collaboration is welcome to assist the Director of TSB, Mr. Malcolm Johnson, in the effort to address your priorities in the evolving ICT environment.

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Thank you very much !

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