International Telecommunication Union

Introductory Remarks / Keynote Address / ITU Structure

ITU/BDT Regional Seminar on Mobile and Fixed Wireless Access for Broadband Applications for the Arab Region Algiers, Algeria, 19-22 June 2006

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ITU/BDT Regional Seminar on Mobile and Fixed Wireless Access
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ITU

Objective and Outline

o Objective
  - Introduce seminar
  - Set stage for understanding ITU's role in global standardization
o Outline
  - Seminar overview
  - ITU structure
    - ITU-R
    - ITU-T
    - ITU-D

1

What's Life Like ....

o **Today ...**
  - Most people can't do without their mobile phones
  - Content is on DVDs or magazines or books or a local hard-disk
  - Contact Lists are by application, device, and individual situation

o **In 2010 …**
  - Everyone's connected: can't do without being on-line
  - The first place people go for content is on-line

o **In 2015 …**
  - Everyone and everything is connected all the time, everywhere
  - The only place people go for content is on-line

Today's technology literate young person is tomorrow's decision maker: our target customer!

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3

Next Generation Access and Networks for Next Generation Users & Services

o today's young person is tomorrow's decision maker
  - rising expectations: multimedia services, security, personalization, mobility
  - rising ability to pay as economies develop

o "demographic" shifts
  - business success depends on communications
  - subscribers place high value on mobility ...
  - mobile usage strongly correlates with internet usage
  - ... and place high value on high speed access

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4

Seminar Overview

Day 1

- Opening
1. Introduction to Wireless Broadband
2. Broadband Programs and System Implementation
3. Regulatory aspects of Wireless Broadband

Day 2

4. International Wireless Broadband Standards
5. Broadband Technologies and Solutions

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5

Seminar Overview

Day 3

6. BWA Planning and Implementation
7. Fixed Mobile Convergence

Day 4

8. 2G to 3G Migration/Evolution - Guidelines for Developing Countries
- Panel Discussion
- Closing

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6

ITU Structure

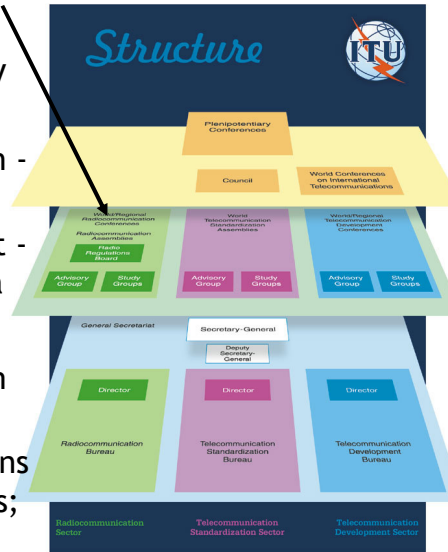o **Office of the Secretary-General; 3 sectors with Bureaus:**
- **Radiocommunication**
- **Telecommunication Standardization**
- **Telecommunication Development**

o **Membership**
- **190 Member States**
- **649 Sector Members**
- **127 Associates**

Additional details available on ITU web site:
www.itu.int/aboutitu/overview/index

Structure

Plenipotentiary Conferences

Council | World Conferences on International Telecommunications

World/Regional Radiocommunication Conferences | World Telecommunication Assemblies | World/Regional Telecommunication Development Conferences

Radiocommunication Assemblies

Radio Regulations Board

Advisory Group | Study Groups | Advisory Group | Study Groups | Advisory Group | Study Groups

General Secretariat | Secretary-General

Deputy Secretary-General

Director | Director | Director

Radiocommunication Bureau | Telecommunication Standardization Bureau | Telecommunication Development Bureau

Radiocommunication Sector | Telecommunication Standardization Sector | Telecommunication Development Sector

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ITU Sector Roles and Mission

o **ITU-R:** management of radio-frequency spectrum and satellite orbits

o **ITU-T:** standards covering all fields of telecommunications

o **ITU-D:** facilitate connectivity and access, foster policy, regulatory and network readiness, and expand human capacity through training programs, formulate financing strategies and e-enable enterprises in developing countries

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World Radiocommunication Conference & Radio Assembly

o RA & WRC held every 3-5 years

- RA & WRC-03: 2 Jun - 4 Jul 2003, Geneva
- RA & WRC-07: 1 Oct - 2 Nov 2007, Geneva

o Radio Regulations

- treaty: RF spectrum and satellite slots
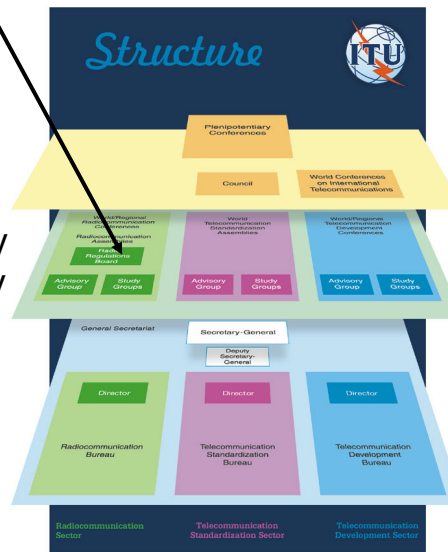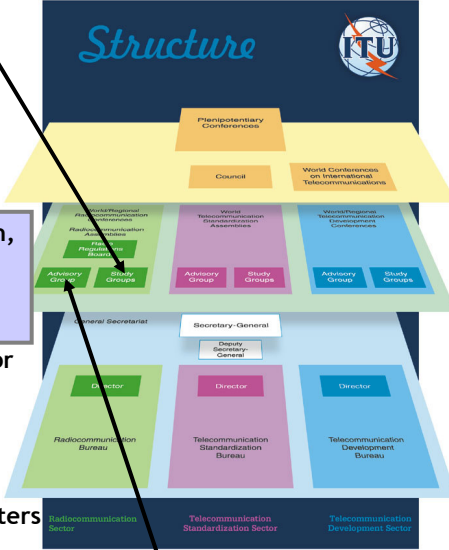- determines Questions for study by RA, SGs; work priorities

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Radio Regulations Board (RRB)

o Approves Rules of Procedure for applying Radio Regulations and registering frequency assignments made by Member States

ITU-R Structure - Study Groups

SG 1 Spectrum management
SG 3 Radiowave propagation
SG 4 Fixed-satellite service
SG 6 Broadcasting services
SG 7 Science services
SG 8 Mobile, radiodetermination, amateur and related satellite services
SG 9 Fixed service
CCV Coordination Committee for Vocabulary
CPM Conference Preparatory Meeting
SC Special Committee on regulatory/procedural matters
RAG Radio Advisory Group

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11

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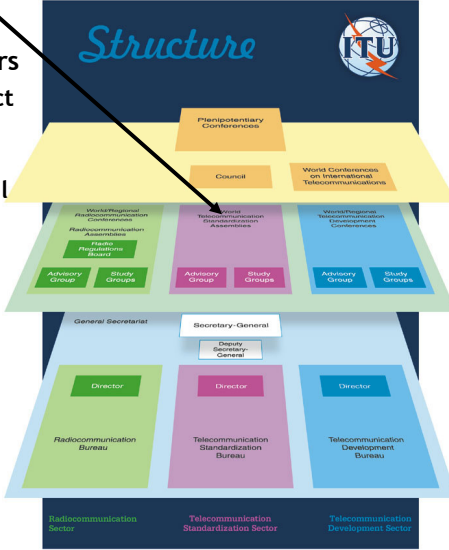
12

6

World Telecommunication Standardization Assembly

o **Normally held every 4 years**
  - WTSA-2000, 27 Sep - 6 Oct 2000, Montreal, Canada
  - WTSA-2004, 5-14 Oct 2004, Florianopolis, Brazil

o **Approves ITU-T work program, priorities, time-frames**

o **Decides on structure of study groups, mandates, Questions**

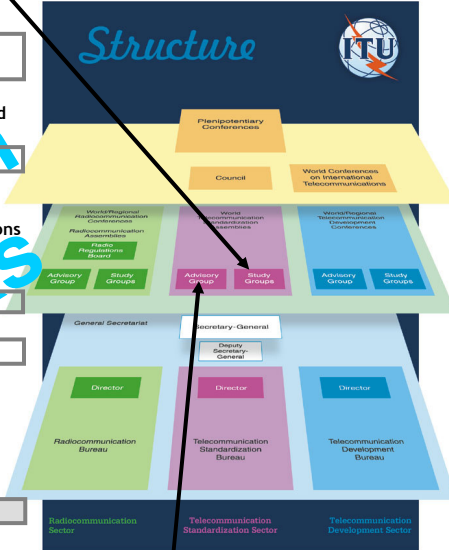
ITU-T Study Groups, TSAG

2 Operational aspects of service provision, networks and performance

3 Tariff and accounting principles including related telecommunication economic and policy issues

4 Telecommunication management

5 Protection against electromagnetic environment effects

6 Outside plant and related indoor installations

9 Integrated broadband cable networks and television and sound transmission

11 Signalling requirements and protocols

12 Performance and quality of service

13 Next Generation Networks

15 Optical and other transport network infrastructures

16 Multimedia terminals, systems and applications

17 Security, languages & telecommunication software

19 Mobile telecommunication networks

TSAG Telecommunication Standardization Advisory Group

7

ITU Sector Roles and Mission

ITU

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World Telecommunication Development Conference

ITU

WTDC'06

- Held approx. every 4 years:
    - WTDC 2002, Istanbul
    - WTDC 2006, Doha
- Objectives and strategies for development of telecommunications
    - Priority: expand, modernize networks to boost telecoms penetration and access in the world's poorer countries
- Promote international cooperation
- Establish ITU-D SGs, mandates

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ITU-D Study Groups, TDAG
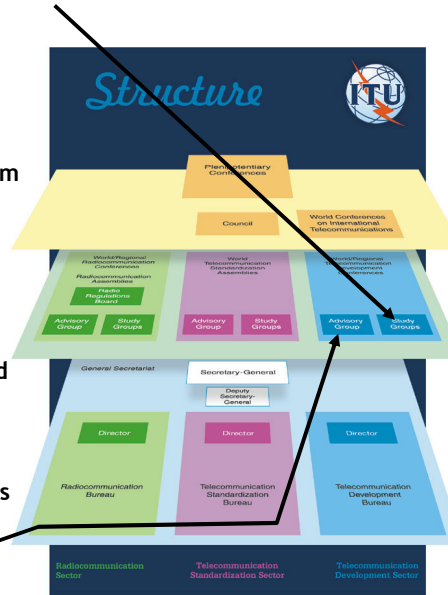
ITU

o **ITU-D:**
  - **Purpose: devise innovative solutions to specific problem areas per WTDC**
  - **No technical standards**
o **SGs focus: telecoms development strategies**
  - **SG 1 - Telecommunication development strategies and policies**
  - **SG 2 - Development and management of telecommunication services and networks**
  - **TDAG: Advisory Group**

ITU

Thank you!

9

Some Acronyms

ITU

2G	Second Generation	P.Eng.	Professional Engineer
3G	Third Generation	RA	Radio Assembly
BDT	Telecommunication Development Bureau	RAG	Radio Advisory Group
CCV	Coordination Committee for Vocabulary	SAG	Telecommunication Standards Advisory Group
CPM	Conference Preparatory Meeting	SC	Special Committee on regulatory/procedural matters
ICT	Information and Communications Technology	SG	Study Group
		TDAG	Telecommunication Development Advisory Group
ITC	International Teletraffic Congress	WRC	World Radiocommunication Conference
ITU	International Telecommunication Union		
ITU-D	ITU - Development Sector	WTDC	World Telecommunication Development Conference
ITU-R	ITU - Radio Sector		
ITU-T	ITU - Telecommunication Standardization Sector	WTSA	World Telecommunication Standardization Assembly
NGN	Next Generation Network		