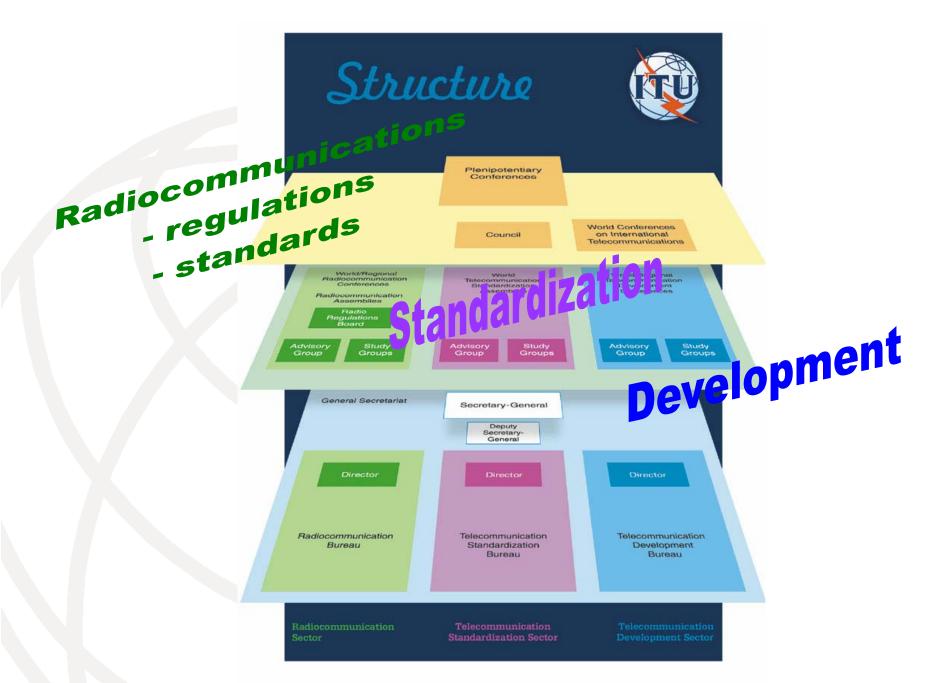
Regional Development Forum 2008

"Bridging the Standardization Gap in Developing Countries" for the Asia-Pacific Region Hanoi, Vietnam, 15-17(am) September 2008

An overview of the ITU Radiocommunication Sector (ITU-R)

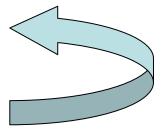
Kevin Hughes Head, Study Group Department ITU Radiocommunication Bureau



ITU key priorities



- radio spectrum
- international standards
- emergency communications
- ICTs and climate change
 digital divide
 cybersecurity





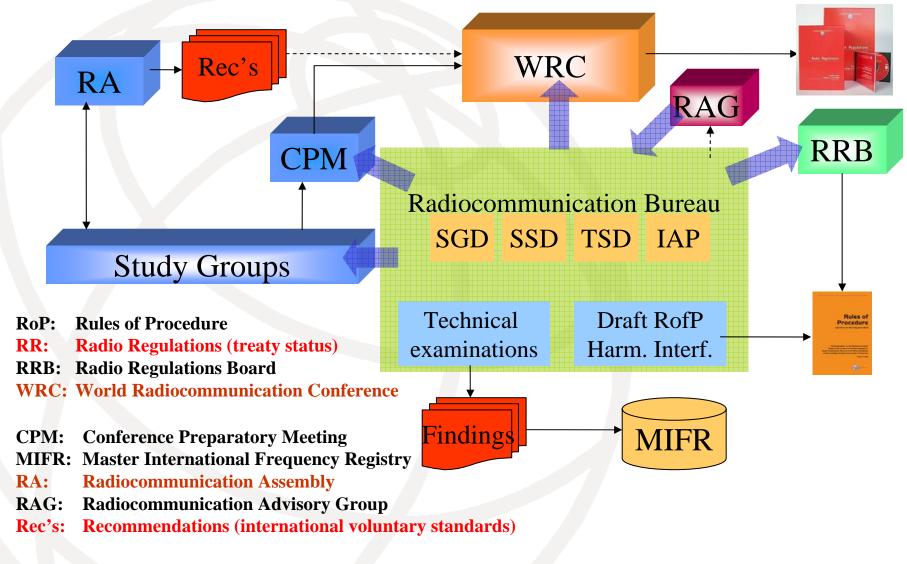
ITU-R mission

"To ensure rational, equitable, efficient and economical use of the radio-frequency spectrum by all radiocommunication services, including those using satellite orbits, and to carry out studies and adopt recommendations on radiocommunication matters." Role conducted through (inter alia): ✓ world and regional radiocommunication conferences ✓ establishment of Recommendations

Technical studies are required which are conducted in Study Groups

In implementing this mission, the actions in ITU-R aim at creating the conditions for harmonized development and efficient operation of existing and new radiocommunication systems, taking due account of all parties concerned.

ITU-R structure & activities



WRC

World Radiocommunication Conference

- Updates the Radio Regulations (treaty status)
 - Spectrum Allocation
 - Notification procedures
 - Administrative and operational procedures
- Adopts Resolutions
- Held every 3-4 years

http://www.itu.int/ITU-R/go/wrc

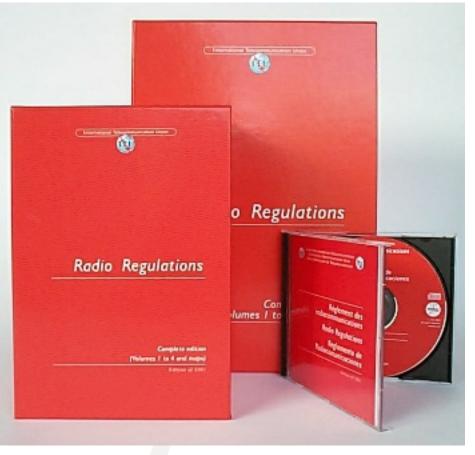
Hanoi, Vietnam, 15-17(am) September 2008

RR

WRC

Radio Regulations (RR)

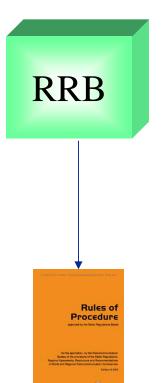
The Radio Regulations (treaty status) incorporates the decisions of the World Radiocommunication Conferences, including all Appendices, Resolutions, **Recommendations and ITU-R** Recommendations incorporated by reference.



Frequency block allocations to defined radio services (Article 5)
 Mandatory or voluntary regulatory procedures (coordination, plan modification, notification, recording) that are adapted to the allocation structure

Radio Regulations Board (RRB)

- Approves Rules of Procedure to facilitate the application of the Radio Regulations
- Considers cases of harmful interference & appeals against BR decisions on frequency assignment
- Part-time elected members & max. 4 meetings/year



Objectives of a Radiocommunication Assembly

- Review working methods and procedures of the ITU-R Study Groups
 - new and revised ITU-R Resolutions
- Establish Study Group work programme for the next study period
 - ITU-R Questions
- Establish structure of Study Groups
- Elect Chairmen and Vice-Chairmen of Study Groups, CPM, SC and RAG
- Approve ITU-R Recommendations (in practice, by exception)

Objectives of ITU-R Study Groups

- Develop technical bases for WRCs and RRCs
 - CPM process for WRCs
- Develop ITU-R Recommendations
 - International voluntary standards (but some mandatory through incorporation by reference into RR)
- Compile Reports and Handbooks

ITU-R represents the International Focal Point for radio standardization, inextricably linked with its international spectrum regulatory role

ITU-R Study Groups

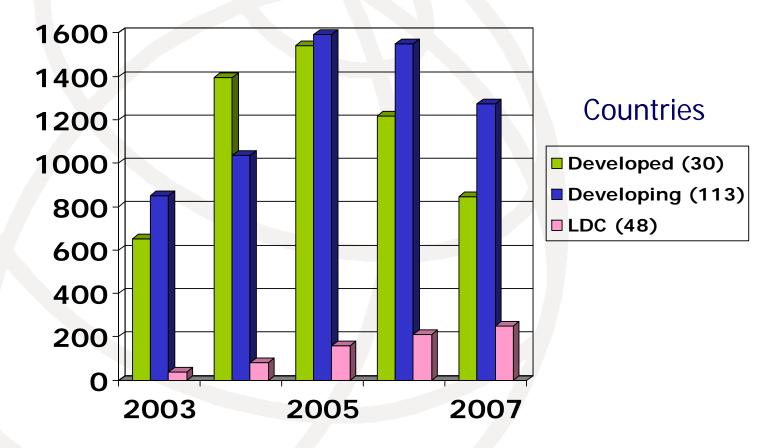
Groups of experts (> 1500) from ITU membership:

- ITU Member States: 191
- ITU-R Sector members: 276
- ITU-R Study Group Associates: 27
- Unique global forum addressing standardization of radiocommunications:
 - Administrations of Member States
 - Manufacturers, Scientific or Industrial Organizations
 - Service providers / Operators
 - User forums

ITU Global Directory: http://www.itu.int/GlobalDirectory/itu_global_directory.htm

Participation in ITU-R Study Group meetings

Tendency: increasing participation representatives from LCD and developing countries (comparing with 2003)



Hanoi, Vietnam, 15-17(am) September 2008

ITU-R Study Groups

- SG 1: Spectrum management
- SG 3: Radiowave propagation
- SG 4: Satellite services
- **SG 5: Terrestrial services**
- SG 6: Broadcasting service
- SG 7: Science services

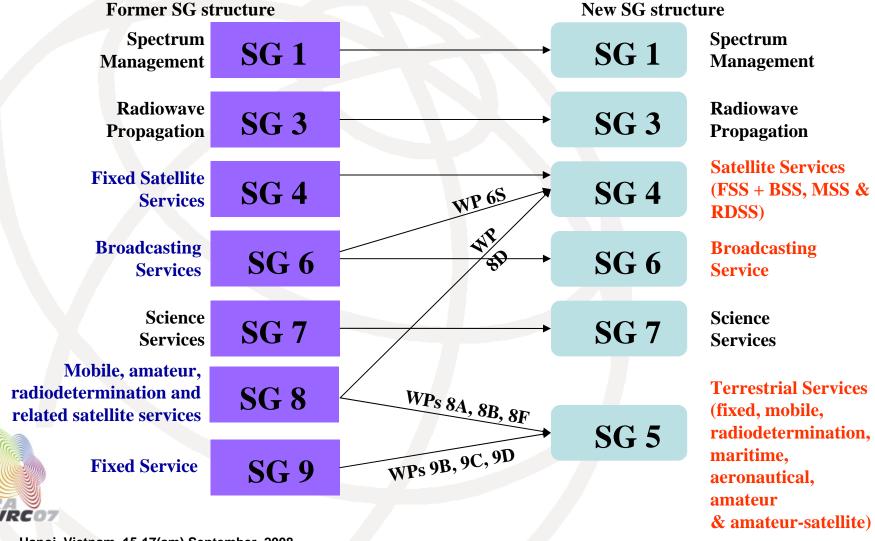
In addition:

- CCV: Coordination Committee for Vocabulary
- **CPM: Conference Preparatory Meeting**
- SC: Special Committee on regulatory and procedural matters

http://www.itu.int/ITU-R/go/rsg

- >900 Recommendations
- "Standards" in areas of spectrum management and radio technology
- Result of consensus from meetings of world-wide experts
- Some referred to in RR
- Used by spectrum planners and system designers

Study Group structure approved at RA-07



Space Services

- Coordination and recording procedures for space systems and earth stations: capture, processing and publication of data and examination of frequency assignment notices submitted by administrations for inclusion in the formal coordination procedures or recording in the Master International Frequency Register (MIFR).
- Procedures for space related assignment or allotment *plans*
- Assistance to administrations on all of the above issues

http://www.itu.int/ITU-R/space

Terrestrial Services

Regulatory and Technical Functions

 Broadcasting / Fixed and Mobile / Maritime Mobile / Aeronautical Mobile

Terrestrial Plans

AP25, AP26, AP27, ST61, GE75, RJ81, GE84, GE85M, GE85N, RJ88, GE89, GE06

HF Broadcasting (Art.12)

Administrative and Operational Procedures

- International means of identification
 - all sign series / maritime identification digits / blocks of selective call sign numbers
- Service Documents
 - Ship stations / coast stations / radio determination / call signs / MARS, etc

Harmful interference & monitoring programs

http://www.itu.int/ITU-R/terrestrial

ITU-R Publications

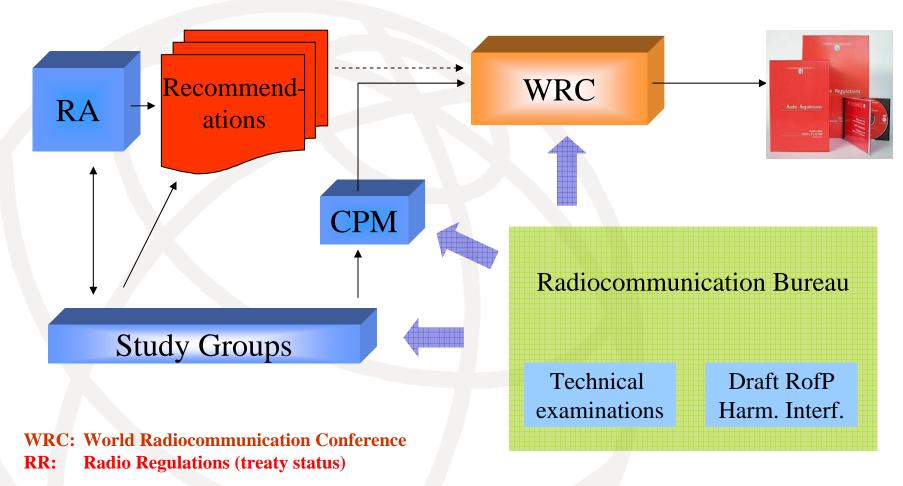


BR International Frequency Information Circular (IFIC)

- Space Radiocommunication Stations on CD-ROM
- Radio Regulations
- Service documents
 - ITU-R Recommendations
 - Online subscriptions
 - CD-ROM
 - Paper
- Handbooks

http://www.itu.int/publications

ITU-R standardization



- **CPM:** Conference Preparatory Meeting
- **RA:** Radiocommunication Assembly
- **Rec's: Recommendations (international voluntary standards)**

ITU-R and The Standardization Gap

Standardization role

International Spectrum Management role

To help Bridge the Standardization Gap