

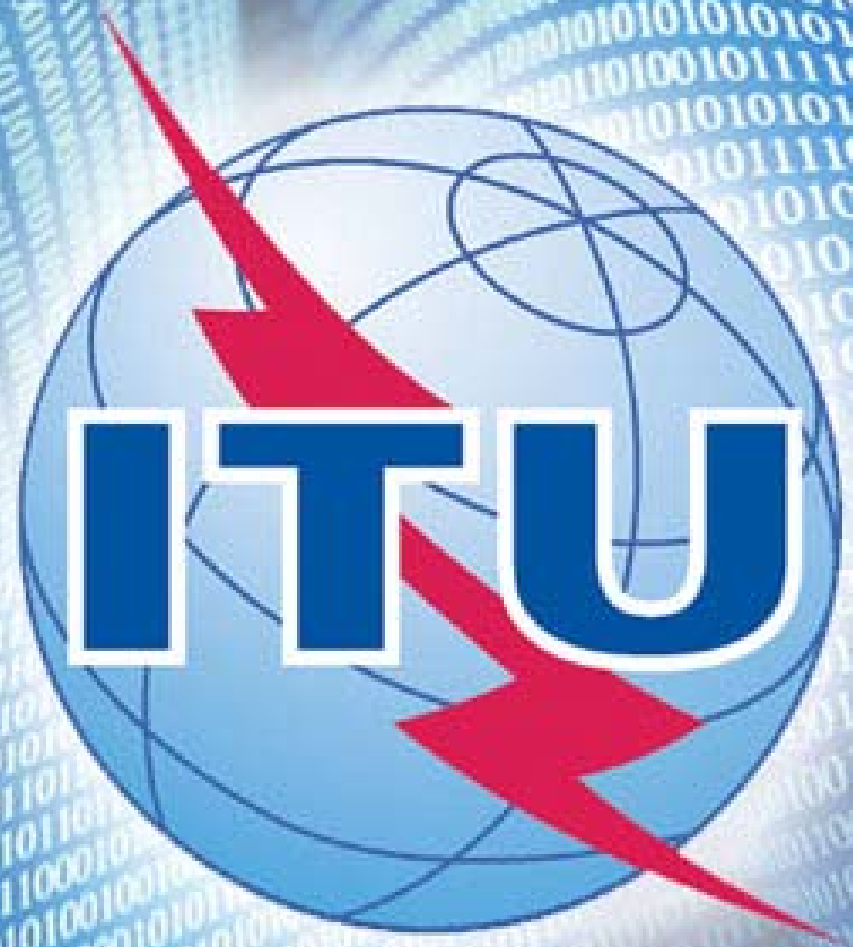


# ITU and the WRC Process

**Seminar on Terrestrial  
Electronic News Gathering**



**Geneva  
8 March 2006**

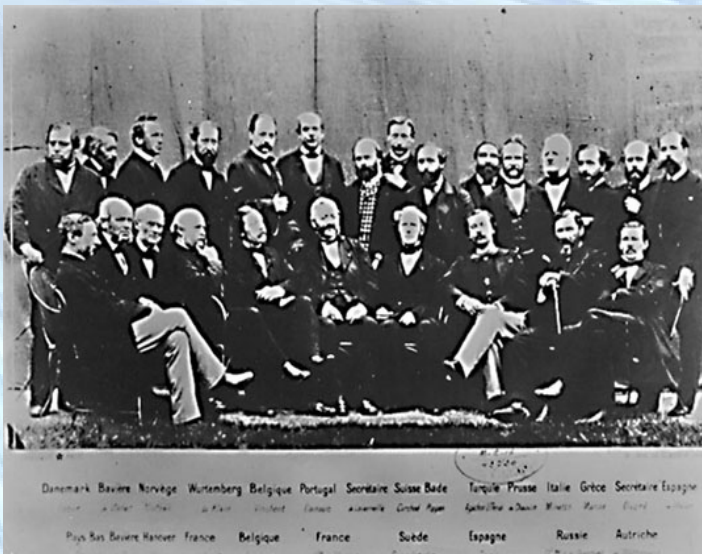


*F. Leite, Deputy-Director, ITU-BR*



# ITU in brief

- ✓ ~140 years old  
(founded on 17 May 1865)

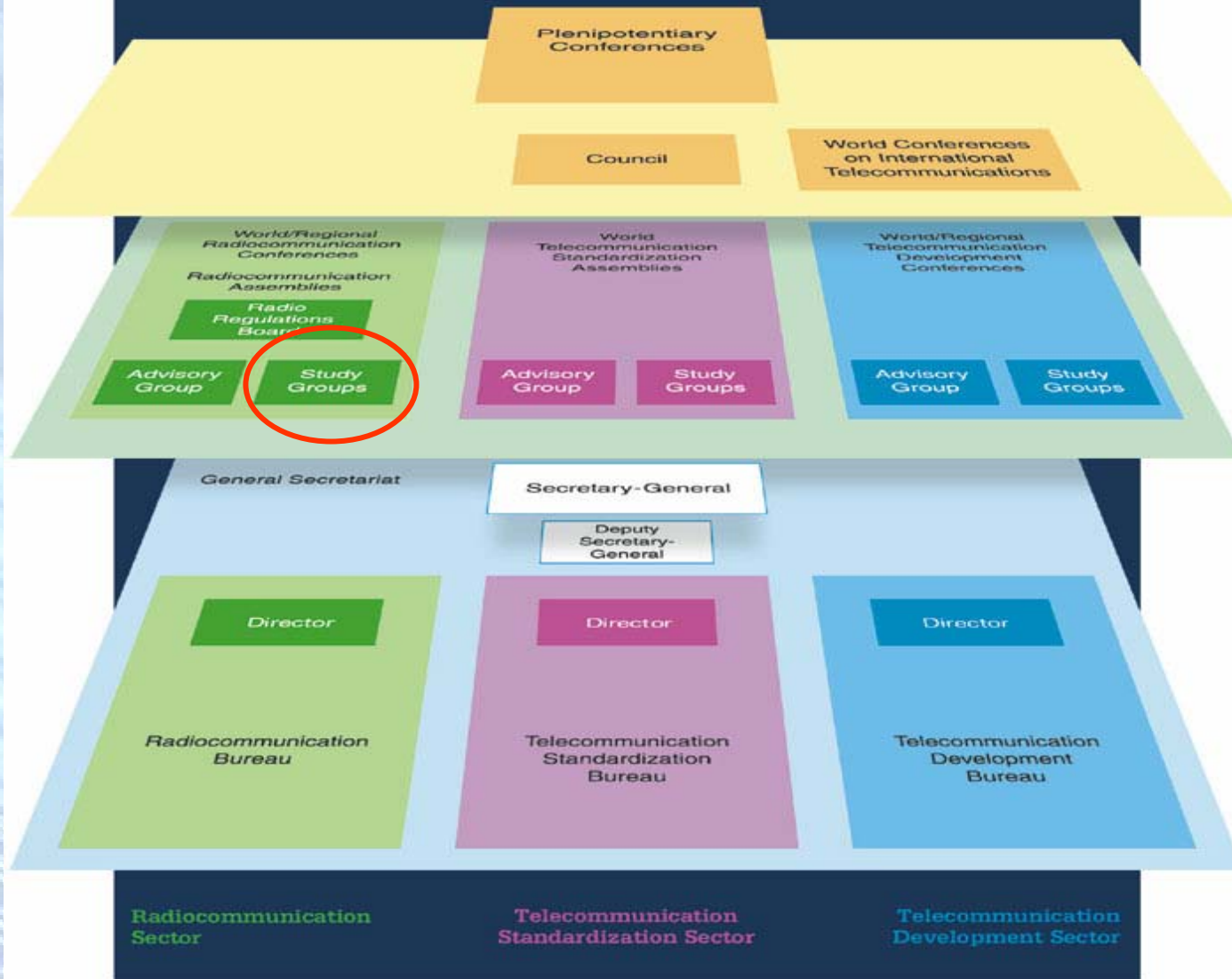


- ✓ 189 Member States, 620 Sector Members, 100 Associates
- ✓ 750 staff / 71 nationalities
- ✓ Annual budget = \$150,000,000
- ✓ Website: [www.itu.int](http://www.itu.int)



UN specialized agency,  
concerned with the development  
of telecommunication networks  
and services worldwide

# Structure



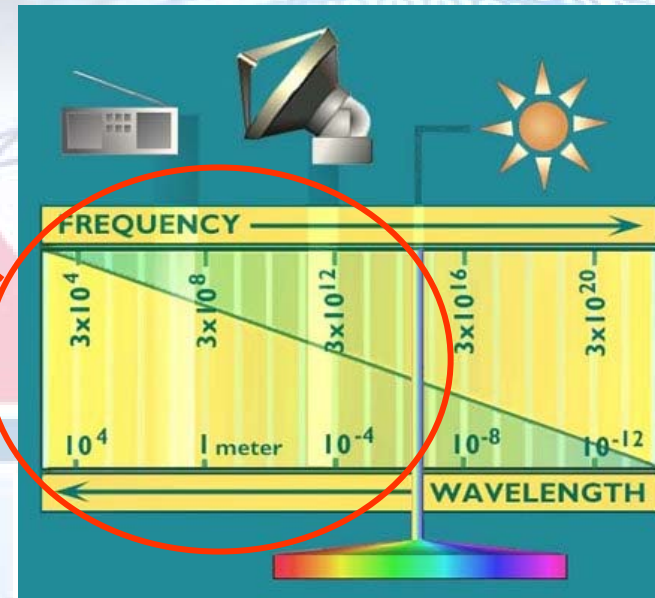
# Radiocommunication Sector (ITU-R)

## Mission

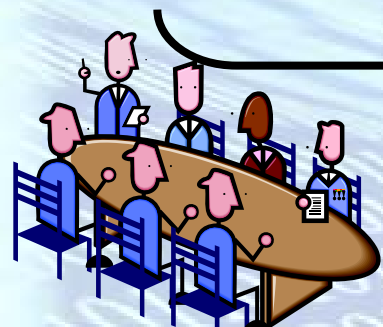
*To ensure rational, equitable, efficient and economical use of the radio-frequency spectrum by all radiocommunication services, including those using satellite orbits, and to carry out studies and adopt recommendations on radiocommunication matters.*

Mission achieved through (*inter alia*):

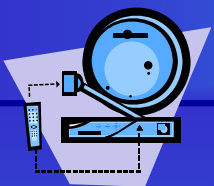
- ✓ World and Regional Radiocommunication Conferences
- ✓ Approval of Recommendations



Technical studies are required which are conducted in Study Groups



# ITU-R Study Group 6 (Broadcasting service)



## Scope

Radiocommunication broadcasting (terrestrial and satellite) of vision, sound, multimedia and data services primarily intended for delivery to the general public

## Key areas of study

### Digital terrestrial broadcasting

- protection criteria for RRC
- "planning parameters" for digital sound broadcasting at frequencies below 30 MHz."
- transition from analogue to digital terrestrial broadcasting

### Digital satellite broadcasting

- satellite return channel for interactive BSS
- system parameters for BSS between 17.3 and 42.5 GHz (including associated feeder-links)

### Studies on advanced broadcasting technologies

- large screen digital imagery (LSDI) & interactive multimedia services
- objective measurement of perceptual image quality & image scanning formats

### Studies for WRC-07

- identification of additional spectrum for the broadcasting service in the HF bands
- protection of terrestrial broadcasting service from multiple satellite broadcasting systems in the band 620-790 MHz
- Spectrum usage and operational characteristics of ENG systems



# 100 YEARS OF RADIO REGULATIONS



Wireless signals proved effective in communication for rescue work when a sea disaster occurred. Effective communication was able to exist between ships and ship to shore points and at the beginning of the 1900's, a number of ocean liners had installed wireless equipment.

As a consequence, in 1906 the first **International Radiotelegraph Conference** gathered maritime States in Berlin to sign the *International Radiotelegraph Convention*, establishing the principle of compulsory intercommunication between vessels at sea and the land. The annex to that Convention contained the first regulations governing wireless telegraphy. Those regulations, which have since been expanded and revised by numerous radio conferences, are now known as the *Radio Regulations*.

## INTERNATIONAL RADIO-TELEGRAPH CONVENTION

CONCLUDED BETWEEN

GERMANY, THE UNITED STATES OF AMERICA, ARGENTINA, AUSTRIA, HUNGARY, BELGIUM, BRAZIL, BULGARIA, CHILE, DENMARK, SPAIN, FRANCE, GREAT BRITAIN, GREECE, ITALY, JAPAN, MEXICO, MONACO, NORWAY, THE NETHERLANDS, PERSIA, PORTUGAL, ROUMANIA, RUSSIA, SWEDEN, TURKEY, AND URUGUAY.

**Berlin, November 3, 1906**

# Radio Regulations (RR)

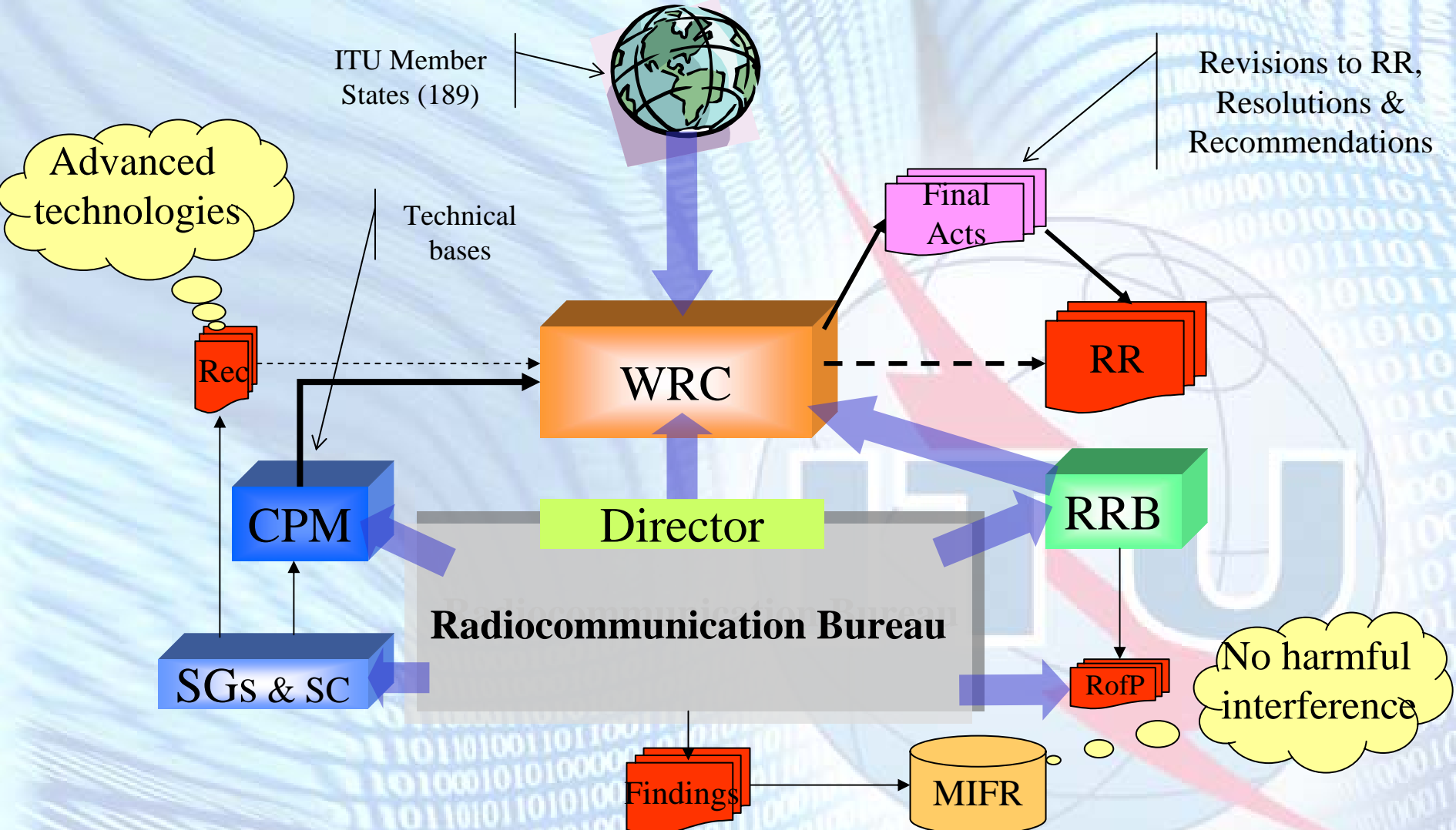
The “Red Books” incorporates the *Radio Regulations (treaty status)* and decisions of the World Radiocommunication Conferences, including Resolutions, Recommendations and ITU-R Recommendations incorporated by reference.



RR main concepts

- Frequency block allocations to defined radio services (Article 5)
- Regulatory procedures (coordination, plan modification, notification, recording)

# WRC Process



**CPM:** Conference Preparatory Meeting  
**Rec:** ITU-R Recommendation  
**RofP:** Rules of Procedure  
**RR:** Radio Regulations (treaty status)

**MIFR:** Master International Frequency Registry  
**RRB:** Radio Regulations Board  
**SGs:** Radiocommunication Study Groups  
**WRC:** World Radiocommunication Conference



# WRC Regional Preparation

- ✓ Preparation of common coordinated proposals



ASMG

Arab Spectrum Management Group

# Electronic News Gathering (ENG) & WRC-03

**Proposal from APT to WRC-03:** “to consider identification of globally/regionally harmonized bands, to the extent practicable, for the implementation of existing analogue and future digital ENG applications and to make regulatory procedures, as necessary”.



- ✓ Many administrations were looking toward reducing the present spectrum available for ENG as a result of other technologies competing for the bands currently allocated to ENG.
- ✓ There was no agreed identification of globally/regionally harmonized bands for the implementation of existing analogue and future digital ENG applications.

Material goes “live to air”, which demands the certainty of an interference free radio-frequency spectrum channel for the duration of the event.



**REC. 723 (WRC-03):** Spectrum usage and operational characteristics of ENG systems *recommends that ITU-R*

**1** continue the study, as a matter of urgency, of the technical, operational and frequency issues of ENG on a global basis; *invites* the Director, BR to include the status of this study in his Report to WRC-07 for information,

Studies were allocated to ITU-R Working Party 6J (former 6P) as the *responsible* group and WPs 4B, 6E, 8A, 8D, 8F, 9B, 9D as *interested* and *contributing* groups.

WP 6J was chosen as it has allocated to it the following Study Group 6 study Questions:

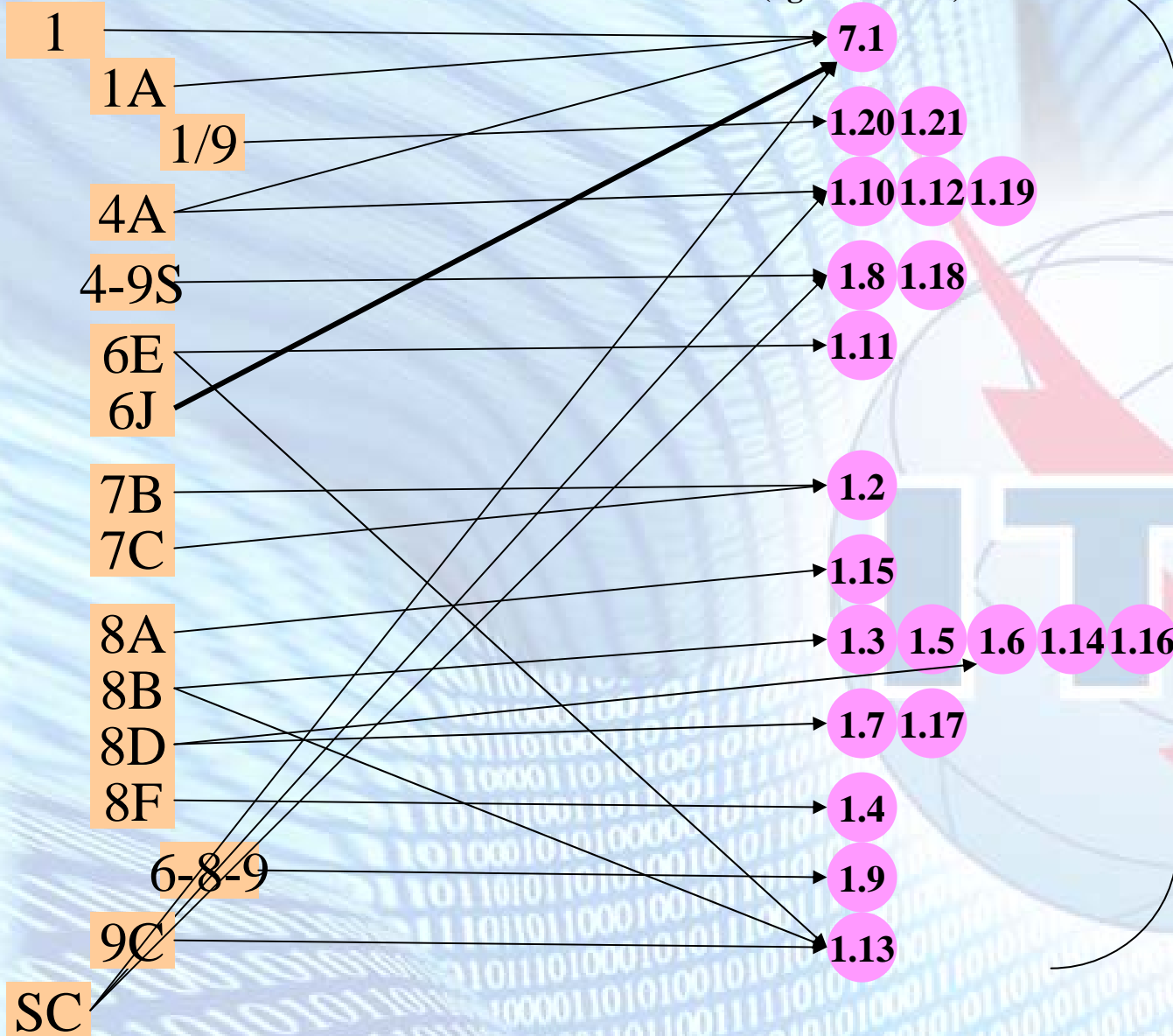
89/6: USER REQUIREMENTS FOR ENG

93/6: FREQUENCY REQUIREMENTS FOR ENG

# CPM Report Preparation

**SG WP TG**  
(responsible ITU-R groups)

**WRC-07**  
(agenda items)



Chapters  
(draft text)

(15.9.06)

Meeting  
of Chapter  
Rapporteurs

(25-29.9.06)

Draft  
CPM Report

CPM

(5-16.3.07)

CPM Report



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### ITU Radiocommunication Sector



Mr. Valery TIMOFEEV,  
Radiocommunication Bureau  
(BR)  
Director

The ITU-R plays a vital role in the management of the radio-frequency spectrum and satellite orbits, finite natural resources which are increasingly in demand from a large number of services such as fixed, mobile, broadcasting, amateur, space research, meteorology, global positioning systems, environmental monitoring and, last but not least, those communication services that ensure safety of life at sea and in the skies.

### About the ITU Radiocommunication Sector

- ▶ [Mission statement - Brochure](#)
- ▶ [Membership - Associates](#)
- ▶ [Radio Regulations Board \(RRB\)](#)
- ▶ [Radiocommunication Advisory Group \(RAG\)](#)
- ▶ [Operational Plans](#)
- ▶ [Address and contacts](#)
- ▶ [Forums](#)

### Activities

- ▶ [Emergency Radiocommunications](#)
- ▶ [Wireless Access Systems \(WAS\), including broadband \(BWA\)](#)
- ▶ [Maritime Mobile Access and Retrieval System \(MARS\)](#)

# Thank you!

### News

- ▶ [New website for ITU-R Conferences](#)
- ▶ [New website for ITU-R Study Groups](#)
- ▶ [Rules of Procedure - Edition of 2005](#)
- ▶ [New website for ITU Publications](#)
- ▶ [Emergency Radiocommunications](#)

### Forthcoming Meetings and Conferences

**Please note:** for meetings taking place at the ITU Headquarters, delegates should register in the reception of the Montbrillant Building. Thank you for your cooperation.

- ▶ [Intersessional Activities \(RRC-04/06\)](#)  
(Geneva, Switzerland, May 2004-May 2006)
- ▶ [Regional Radiocommunication Conference 2006](#)  
(Geneva, Switzerland, 15 May-16 June 2006)
- ▶ [Conference Preparatory Meeting 2007](#)  
(Geneva, Switzerland, 5 March-16 March 2007)
- ▶ [Radiocommunication Assembly 2007](#)  
(Geneva, Switzerland, 8 October-12 October 2007)
- ▶ [World Radiocommunication Conference 2007](#)  
(Geneva, Switzerland, 15 October-9 November 2007)
- ▶ [Meetings schedule - Meeting sessions](#)

### Recent Conferences

- ▶ [Biennial Seminar of the Radiocommunication Bureau](#)  
(Geneva, Switzerland, 15-19 November 2004)
- ▶ [Regional Radiocommunication Conference 2004](#)  
(Geneva, Switzerland, 10 May-28 May 2004)

### Miscellaneous

- ▶ [Requests for administrations](#)