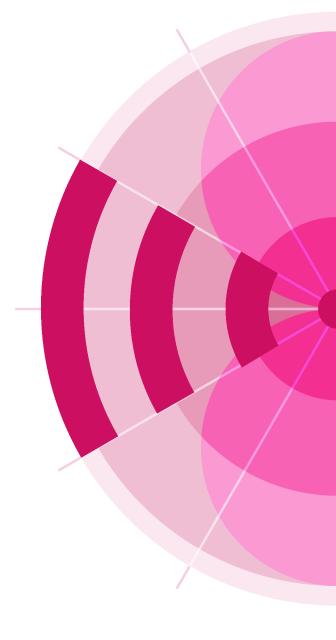


30TH WORLD RADIOCOMMUNICATION SEMINAR

24 – 28 October 2022 Geneva, Switzerland

ITU and ITU-R Basics and Facts

Joanne Wilson
Deputy to the Director
ITU Radiocommunication Bureau



www.itu.int/go/wrs-22 #ITUWRS

Overview

- > ITU: Brief history and structure
- > ITU Radiocommunications Sector (ITU-R)
- > ITU Radiocommunications Bureau (BR)





Who are we?



ITU is the United Nations specialized agency for information and communication technologies (ICTs)

Enabling a connected world





International Telegraph Union

157 years old : founded on 17 May 1865 by 20 nations

- common rules to standardize equipment to facilitate international interconnection,
- adopted uniform operating instructions which would apply to all countries,
- common international tariff and accounting rules.

Took ITU name on 1934

Became UN agency on 1947







History of ITU-R in brief

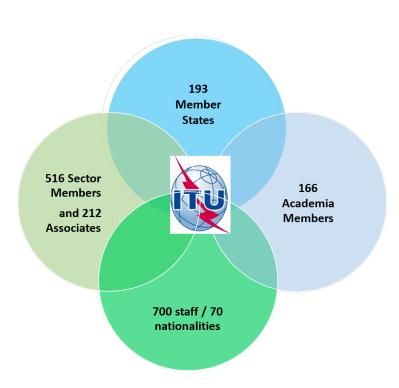
1906 (Berlin)	International Radiotelegraph Convention (1st Radio Regulations)
1927 (Washington DC)	CCIR (International Radio Consultative Committee)
1932 (Madrid)	Telegraph & Radiotelegraph Conventions merged: the International Telegraph Union became the International Telecommunication Union
1947 (Atlantic City)	Created the IFRB (International Frequency Registration Board)
	ITU becomes a UN Specialized Agency
1992 (Geneva)	ITU-R (Radiocommunication Sector):
	ITU-R Study Groups (formerly CCIR)
	RRB (Radio Regulations Board) (formerly IFRB)
	BR (Radiocommunication Bureau)







International Telecommunication Union





United Nations specialized agency for information and communication technologies – ICTs:

allocate global radio spectrum and satellite orbits,

develop the technical standards that ensure networks & technologies interconnect,

strive to improve access to ICTs to underserved communities worldwide.





ITU Locations

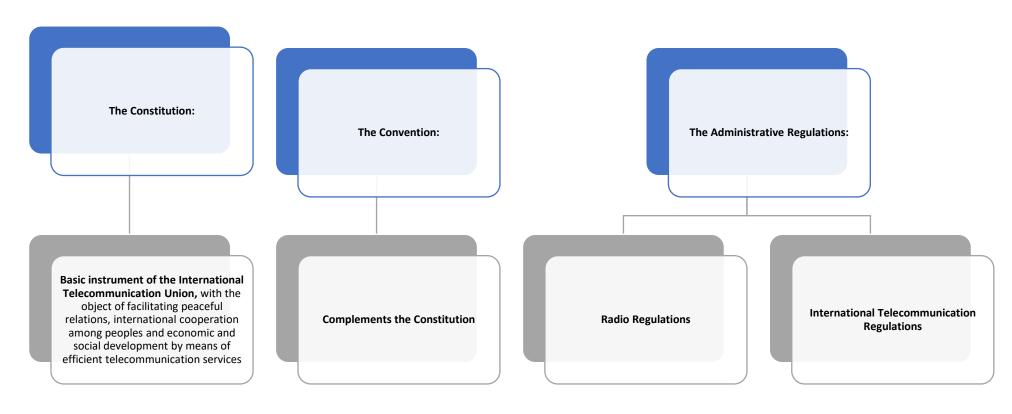








Legal Framework (ITU Treaties)



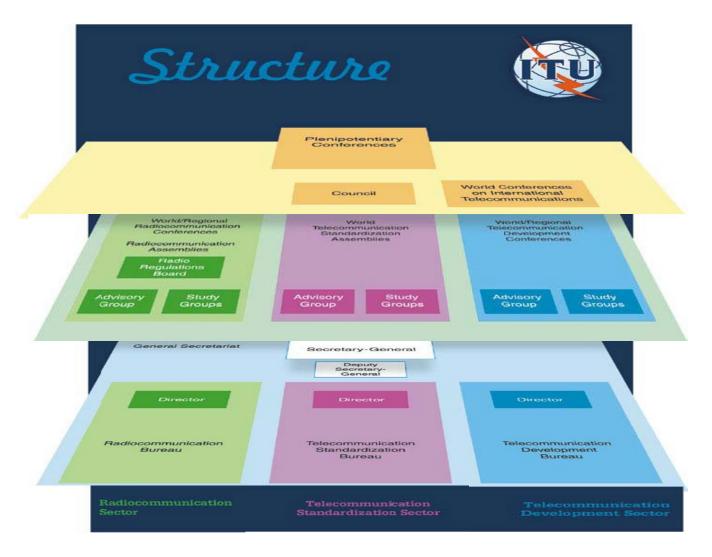




ITU Structure



Committed to Connecting the World







ITU Leadership



Houlin Zhao ITU Secretary General



Committed to Connecting the World



Malcolm Johnson ITU Deputy Secretary General





ITU Telecommunication Standardization Sector



Committed to Connecting the World

KEY ROLE

Crucial role in **defining operation and interoperability of technologies** that underpin global communications network

200 - 300 new global standards approved every year, with over **4,000** in use today

Standards enable global communications by ensuring ICT networks and devices speak the same language globally.



Chaesub Lee, Director
ITU Telecommunication
Standardization Bureau





ITU Telecommunication Development Sector



Committed to Connecting the World

KEY ROLE

Spread equitable and affordable access to telecommunications to help stimulate social and economic development

Human capacity-building in developing and least developed countries (LDCs)

Helps to ensure that people everywhere are empowered to reap the benefits that connectivity delivers



Doreen Bogdan-Martin, Director ITU Development Bureau



ITU Radiocommunication Sector



Committed to Connecting the World

KEY ROLE

Global management of radio-frequency spectrum and, for space stations, their associated satellite orbits

Ensuring the rational, equitable, efficient and economical use of the radio-frequency spectrum by all radiocommunication services

Carrying out **studies** and adopting **recommendations** on radiocommunication matters



Mario Maniewicz, Director
ITU Radiocommunication Bureau







26 September - 14 October 2022 Bucharest, Romania







Tomas
Lamanauskas
ITU Deputy
Secretary
General-elect
(2023-2026)













Newly Elected or Re-elected ITU Directors of the BR, BDT and TSB for 2023 - 2026

Other PP-22 Results

- 1. New Radio Regulations Board
 - 5 Returning members
 - 7 New members
- 2. ITU Council
 - 48 Member States elected
- 3. New ITU Strategic and Financial Plans
 - More than 12 additional contributory units pledged







ITU Radiocommunication Sector

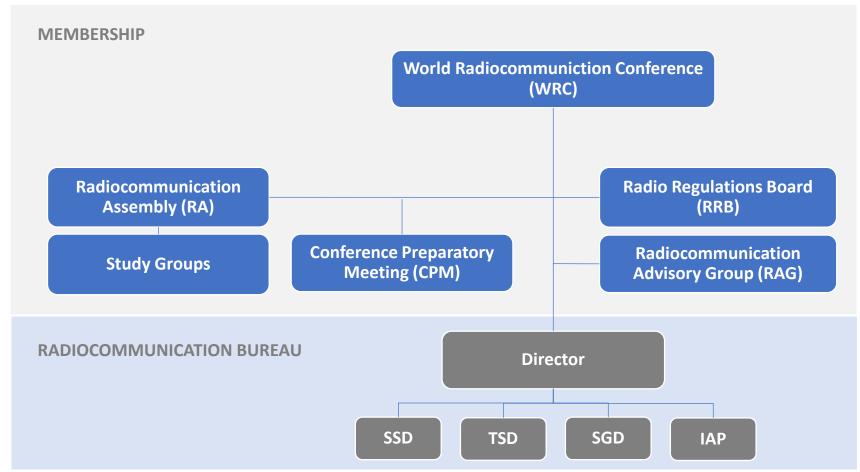
- Developing and updating international regulations and regional agreements on the use of spectrum and associated orbits
- Applying these regulations
- Developing standards and best practices on the use of spectrum
- Disseminating information on these regulations, standards and best practices







ITU-R Structure





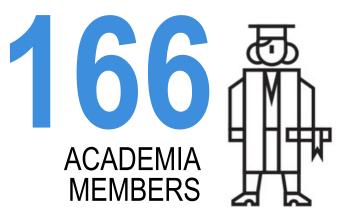


ITU-R Membership by the Numbers

193
MEMBER STATES

299
PRIVATE SECTOR ORGANIZATIONS

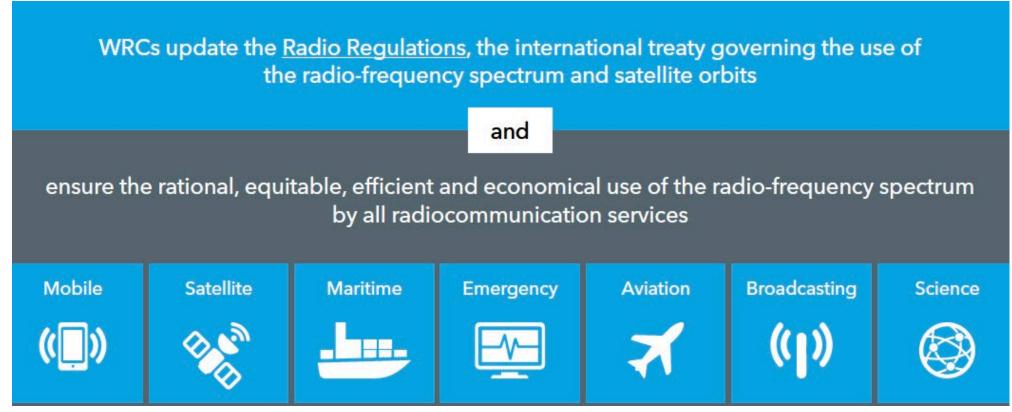








World Radiocommunication Conferences (WRC)







2023 World Radiocommunication Conference

- WRC-23 will be held from 20
 November 15 December 2023
 in Dubai, United Arab Emirates
- Preceded by the 2023
 Radiocommunication Assembly
 (RA-23) on 13 17 November
 2023
- Followed by the 1st Conference Preparatory Meeting for the WRC-27 (CPM27-1)









Radiocommunication Assembly (RA)

The Administrative Body for the ITU-R, the RA's duties include:

- Establishing structure and mandates for ITU-R Study Groups
- Adopting ITU-R Study Questions
- Establishing the working methods of the ITU-R
- Electing leadership of ITU-R Study Groups and RAG
- Responding to requests from ITU conferences
- Approving ITU-R Recommendations

RAs are convened every 4 years (Res. 77 PP14), associated in time and place with WRC (the week before)









Radiocommunication Advisory Group (RAG)



Review the priorities and strategies adopted in the Sector

Monitor progress of the work of the Study Groups;

Provide guidance for the work of the Study Groups; Recommends
measures to
foster
cooperation/
coordination
with other
organizations
and with the
other ITU
Sectors.

Provide advice on these matters to the Director of the Radiocommun ication Bureau (BR).







Radio Regulations Board (RRB)



RRB is conformed of 12 members, elected by each PP. It performs its functions independently and on a part-time basis, including:

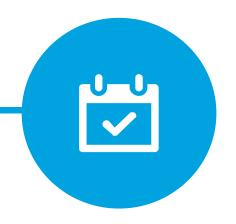
- ❖ Approving Rules of Procedure (RoP) that complement the RRs
- Considering matters referred by the BR that cannot be solved by applying the RR and RoPs;
- Addressing complaints of unresolved harmful interference;
- Advising the WRC and RA;
- Considering appeals against findings and decisions taken by the BR;
- Performing additional duties as assigned by the WRC or by Council.

RRB meets 3 - 4 times per year at the ITU headquarters in Geneva





The ITU Radiocommunication Bureau (BR)



The work of the ITU-R is supported by the Radiocommunication Bureau, under the management of the Director of the BR.

The role and activities of the BR are established and described in the ITU Constitution and Convention.

This section describes the role and work of the BR in supporting and carrying out the functions of the ITU-R.





ITU RADIOCOMMUNICATION BUREAU (BR)



Mario MANIEWICZ, Director ITU Radiocommunication Bureau

BR MANAGEMENT:

BR is headed by an elected Director responsible for the coordination of the work of the Sector, managing professional and administrative teams of BR.

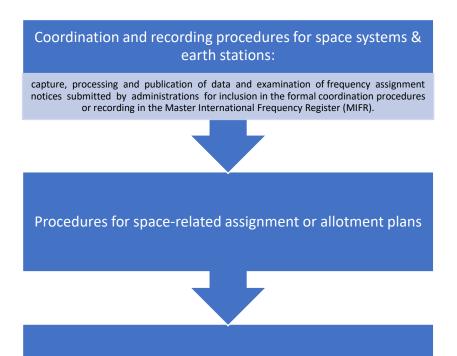
BR DUTIES:

- ❖ Administrative and technical support to WRCs, RAs, ITU-R Study Groups;
- Applies the provisions of the RR and various Regional Agreements;
- Records frequency assignments of space networks, with their associated orbital characteristics, and terrestrial stations in the Master International Frequency Register (MIFR) and Frequency Plans and maintains these databases;
- Coordinates the preparation, editing and dispatch of circulars, documents and publications developed within the Sector;

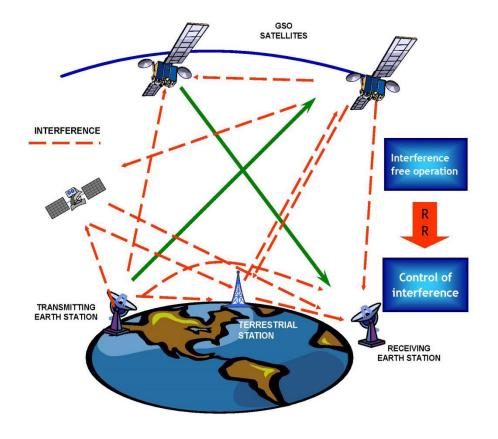




Space Services Department (SSD)



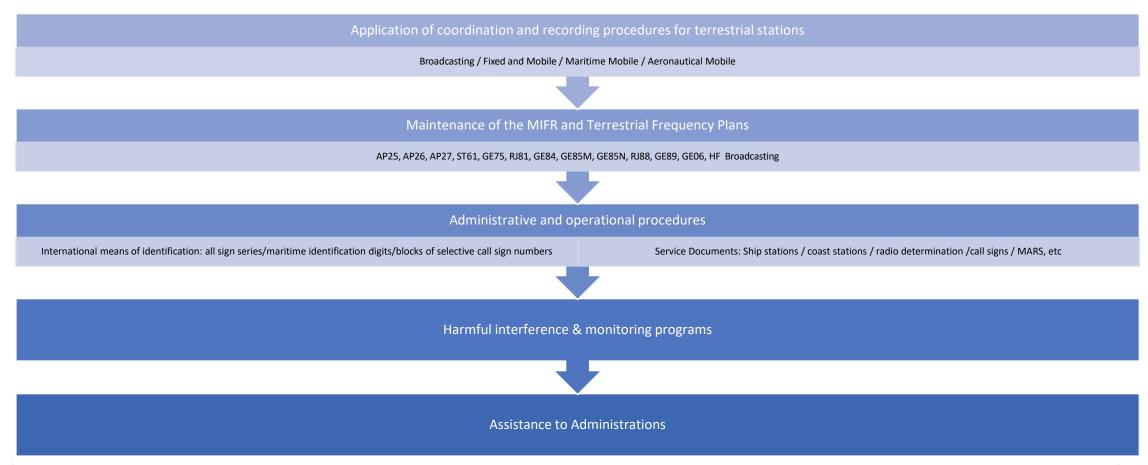








Terrestrial Services Department (TSD)







Study Groups Department (SGD)

Study Group Activities include:

- Developing ITU-R Recommendations (i.e. standards) applicable to radio services
- Developing ITU-R Technical Reports and Handbooks and their updates
- Performing technical studies in preparation for the ITU-R Conferences

Study Group Department activities include:

- Organizing and supporting the holding of RAs and CPMs
- Organizing Inter-regional Workshops in preparation for WRCs
- Providing Secretariat support for the ITU-R Study Groups and their Working Parties and Task Groups
- Capacity-building activities, including supporting the regional preparatory activities for RAs and WRCs
- Cooperating with external organizations, industry and academia on standardization activities







INFORMATICS, ADMINISTRATION AND PUBLICATIONS (IAP) DEPARTMENT

IAP undertakes activities related to:

- Development and enhancement of the Bureau's major software packages (automation tools and IT resources)
- ITU-R Publications
- Membership and outreach in coordination with the General Secretariat and other Bureaux
- Strategic Communications, in coordination with ITU Corporate Communication
- ❖ BR Administrative functions, including organization and support of ITU-R conferences and meetings

IAP comprises three Divisions:

Space Application Software Division (SAS)

Terrestrial Applications Software Division (TAS)

Administration, Membership and Strategic Communications Division (AMSC)





Thank you!

ITU – Radiocommunication Bureau

Questions to brmail@itu.int





BACKUP SLIDES





Major Achievements

1906: First Radio Regulations treaty

1912: Frequencies for maritime distress signals (SOS)

& Morse Code

1959: Allocations for Space Research & Radio Astronomy

1964/66: Allotment plan for aeronautical mobile (R) service.

1994: Digital Audio Broadcasting (DAB) standard;

1995/97: Global framework for non-geostationary satellites

2000: Specifications for IMT-2000 (3G)

2012: Specifications for IMT-Advanced (4G)

2015: Allocates bands for global flight tracking

2019: Framework for regulating large NGSO constellations

2020: Specifications for IMT-2020 (5G)





Study Groups Publications

Since RAG-21, the ITU-R Study Groups publications continued to be developed in accordance with Resolution ITU-R 1-8.

- ITU-R Questions
- ITU-R Recommendations
- ITU-R Reports
- ITU-R Handbooks









