

ITUEvents

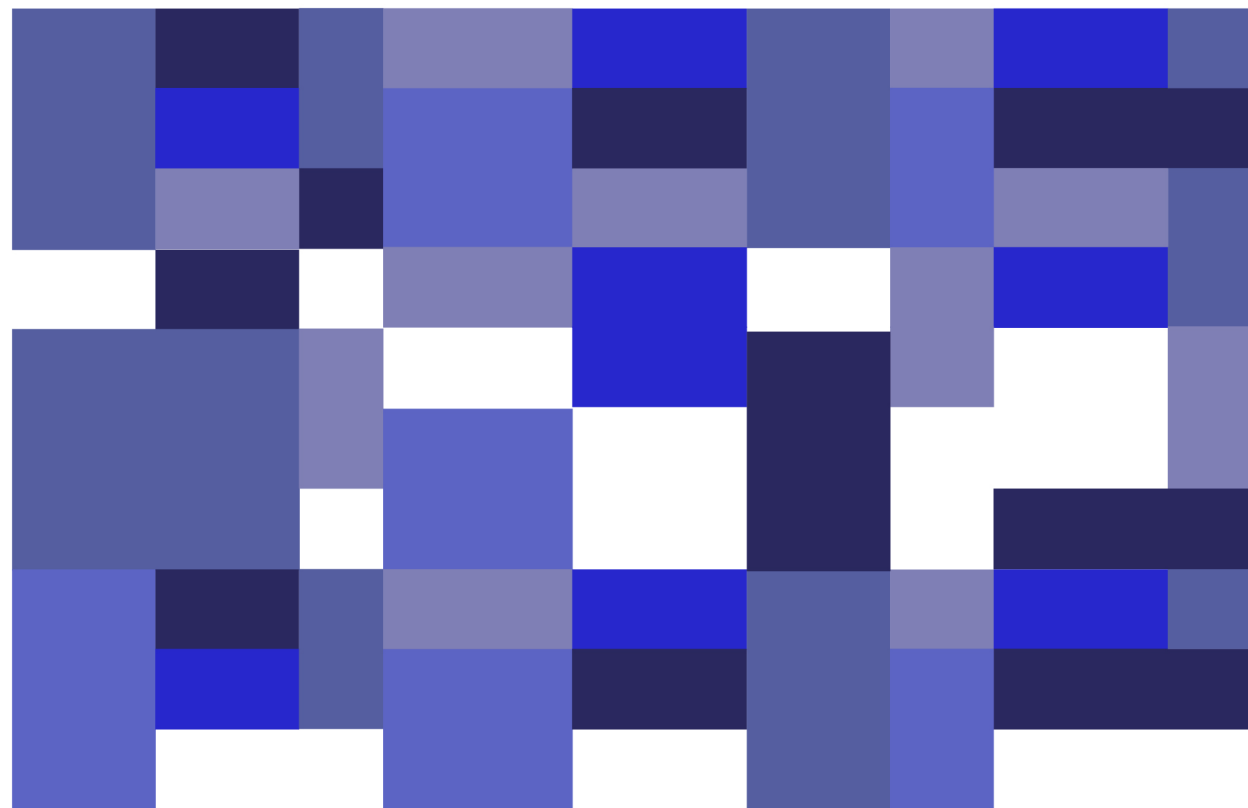
Workshop for Region 2 (RR)

National tables of frequency allocation (NTFA)

17-20 June 2024

Mexico City, Mexico

itu.int/go/ITU-R/NTFA-R2-WS-24



Organized by:



ITU and ITU-R: Basic Facts

Joaquin RESTREPO

Capacity Building Coordinator,
Study Groups Department, SGD
Radiocommunication Bureau, BR

International Telecommunications Union, ITU

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**

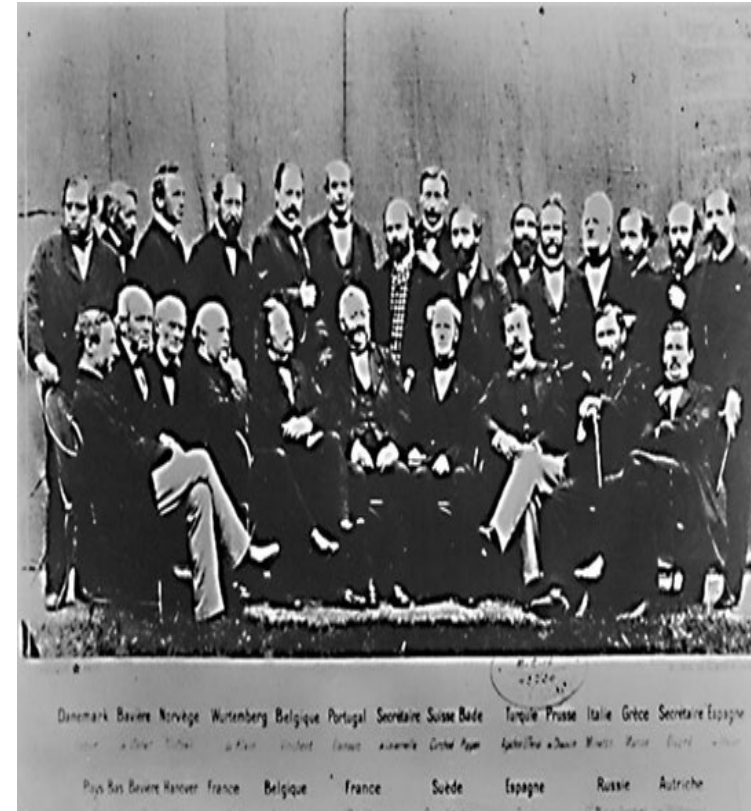
International Telegraph Union

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

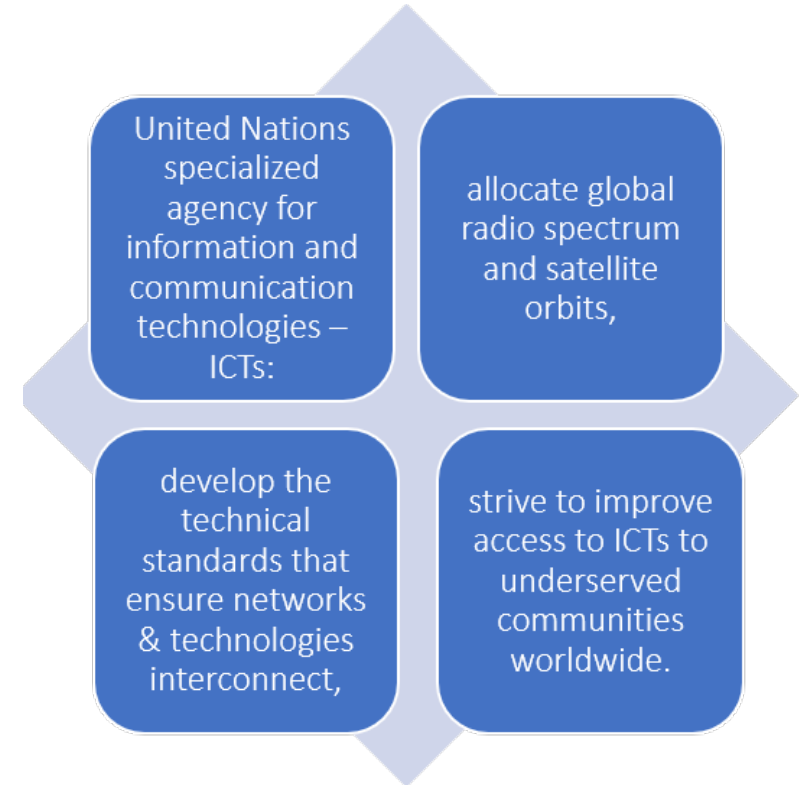
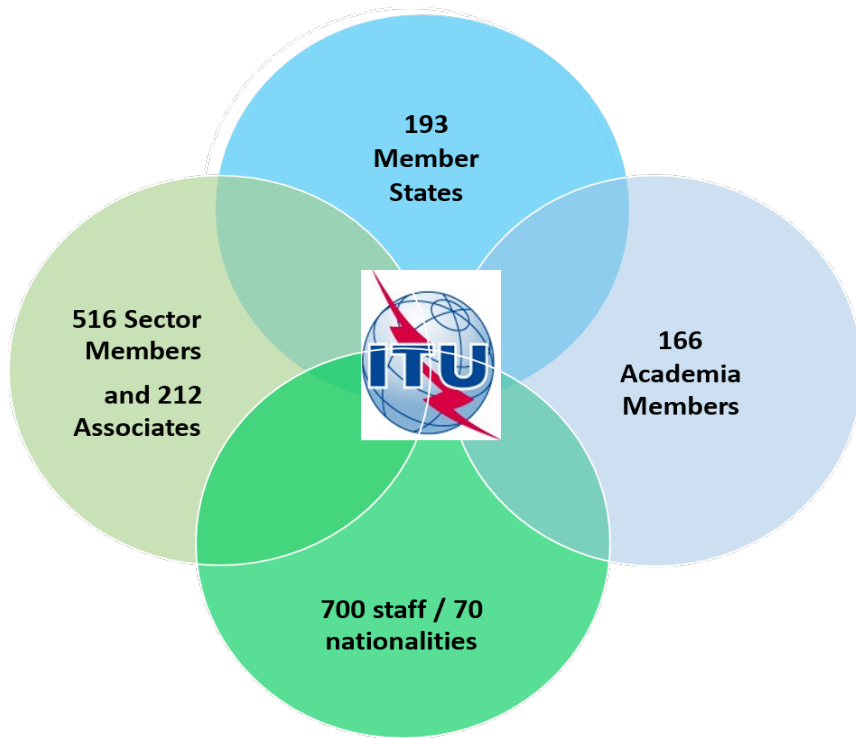
- common rules to standardize equipment to facilitate international interconnection,
- adopted uniform operating instructions which would apply to all countries,
- common international tariff and accounting rules.

Took ITU name on 1934

Became UN agency on 1947



International Telecommunication Union



The Constitution:

- **Basic instrument of the International Telecommunication Union**, with the object of facilitating peaceful relations, international cooperation among peoples and economic and social development by means of efficient telecommunication services

The Convention:

- **Complements the Constitution**

The Administrative Regulations:

- **Radio Regulations;**
- **International Telecommunication Regulations**, which complement the Constitution and the Convention: establish general principles which relate to the provision and operation of international telecommunication services offered to the public as well as to the underlying international telecommunication transport means used to provide such services. They also set rules applicable to administrations

ITU Governance

ITU is governed by:

- **Plenipotentiary Conference (PP)**
- **Administrative Council**

Plenipotentiary Conference, PP

Supreme organ of the Union. It is the decision-making body which determines the direction of the Union and its activities. PP is held every 4 years:

- PP14: Busan, Korea, October 2014
- PP18: Dubai, United Arab Emirates, October 2018
- **PP22: Bucharest, Romania, 26 September to 14 October 2022**

<https://www.itu.int/pp>

Plenipotentiary Conferences, PP

Recent PP-22 elected officials (from 01-01-2023 to 31-12-2026)

- **Secretary General** : Doreen Bogdan-Martin, USA
- **Deputy-Secretary General**: Tomas LAMANAUSKAS, Lithuania
- **ITU Radiocommunications Bureau (BR)**: Mario MANIEWICZ, Uruguay (re-elected)
- **ITU Standardization Bureau (TSB)**: Seizo ONOE, Japan
- **ITU Development Bureau (BDT)**: Cosmas ZAVAZAVA, Zimbabwe

Radio Regulations Board:

- **Americas**: Chantal BAUMIER, Canada (re-elected); Agostinho LINHARES DE SOUZA FILHO, Brasil
- **West Europe**: Yvon HENRI, France (re-elected); Mauro DI CRESCENZO, Italy
- **East Europe, North Asia**: Sahiba HASANOVA, Azerbaijan (re-elected), Rizat NURSHABEKOV, Kazakhstan
- **Africa**: El-Sayed AZZOUZ, Egypt (re-elected); Hassan TALIB, Morocco (re-elected); Edmund Yirenkyi FIANKO, Ghana
- **Asia**: Revathi MANNEPALLI, India; Majed ALKAHTANI, Saudi Arabia; Jianjun CHENG, China

<https://pp22.itu.int/en/elections/elections-results/>

ITU Council

ITU Council acts as the Union's governing body in the interval between Plenipotentiary Conferences.

Council is conformed by Administrations elected during PP (less than 25% of State Members, i.e., 48 Members)

ITU Council meets every year; this year meeting:

- Tuesday 4 to Friday 14 June
- (within agenda: WRC-27 Agenda approval)

Its role is to consider broad telecommunication policy issues to ensure that the Union's activities, policies, strategies, and budget, fully respond to today's dynamic, rapidly changing telecommunications environment.

<https://www.itu.int/en/council/2024>

ITU Council

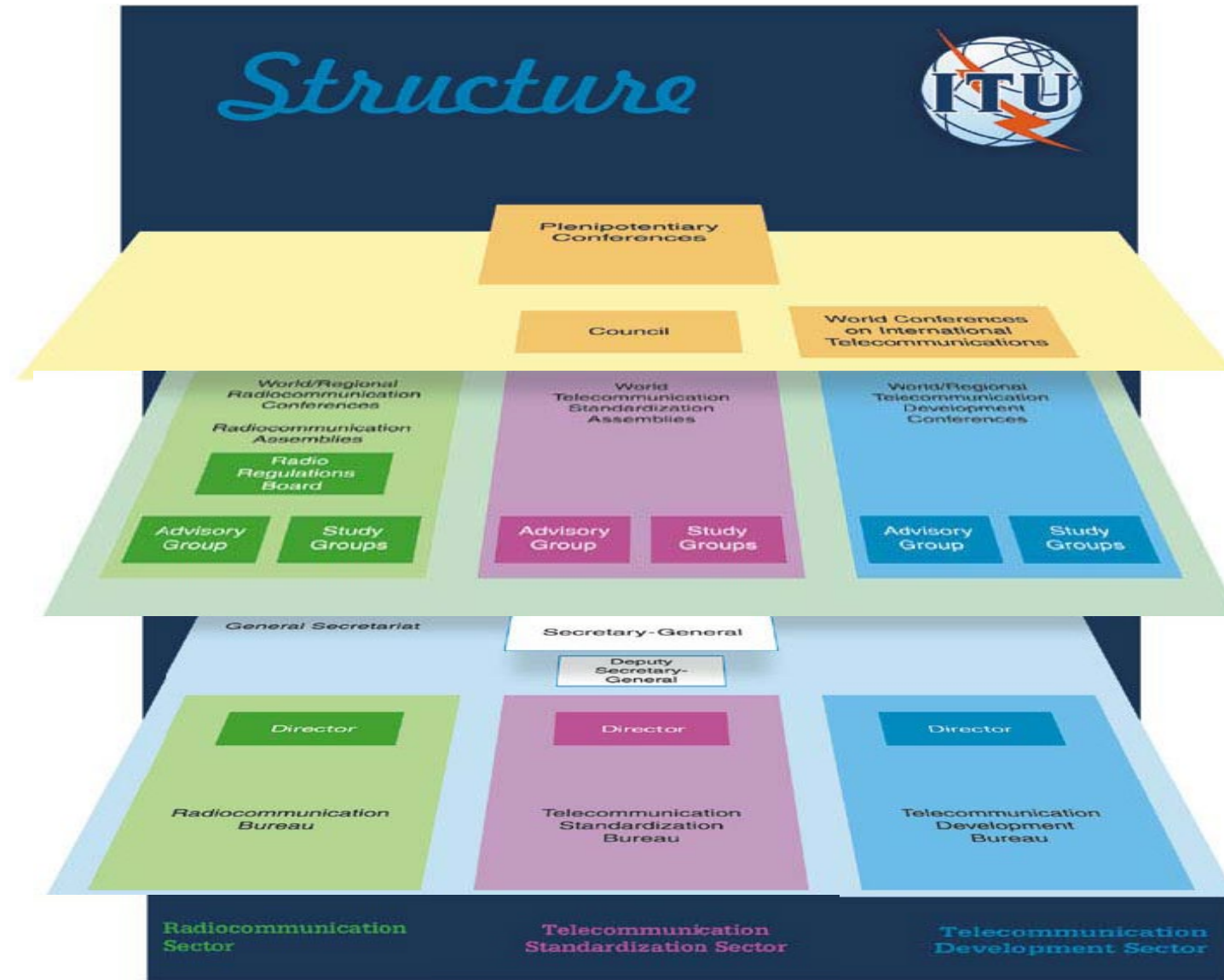
Council is composed by (from 01-01-2023 to 31-12-2026):

- **Region A (Americas): 9 seats;** Argentina, Bahamas, Brazil, Canada, **Cuba**, El Salvador, Mexico, Paraguay, United States
- **Region B (Western Europe): 8 seats;** France, Germany, Italy, Spain, Switzerland, Türkiye, Sweden, United Kingdom
- **Region C (Eastern Europe and Northern Asia): 5 seats;** Azerbaijan, Bulgaria, Czech Republic,, Poland, Romania
- **Region D (Africa): 13 seats;** Algeria, Egypt, Ghana, Kenya, Mauritius Morocco, Nigeria, Rwanda, Senegal, South Africa, Tanzania, Tunisia, Uganda
- **Region E (Asia and Australasia): 13 seats;** Australia, Bahrain, China, India, Indonesia, Japan, Korea (Republic of), Kuwait, Malaysia, Philippines, Saudi Arabia, Thailand, United Arab Emirates

ITU Structure



Committed to
Connecting the World



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.**

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**

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

Radiocommunication Sector (ITU-R)

to ensure interference free radio services through implementation and the efficient and timely update of the:

- Radio Regulations and
- Regional Agreements.

Objective

- Developing and updating international regulations on the use of spectrum and associated orbits
- Applying these regulations and managing the MIFR
- Developing and adopting standards and best practices on the use of spectrum and their orbital resources
- Disseminating information on these regulations, standards and best practices

Role/Duties

Radio standardization also establishes '*Recommendations*' intended to assure the necessary performance and quality in operating radiocommunication systems, and seeks ways and means to conserve spectrum and ensure flexibility for future expansion and new technological developments.

History of ITU-R in brief

1906 (Berlin)	International Radiotelegraph Convention (1 st <i>Radio Regulations</i>)
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): <ul style="list-style-type: none">• ITU-R Study Groups (formerly CCIR)• RRB (Radio Regulations Board) (formerly IFRB)• BR (Radiocommunication Bureau)



ITU-R Membership by the Numbers

193

MEMBER
STATES



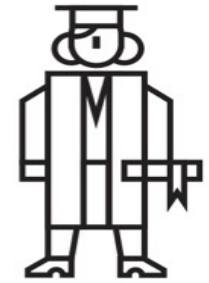
> 300

PRIVATE SECTOR
ORGANIZATIONS



> 165

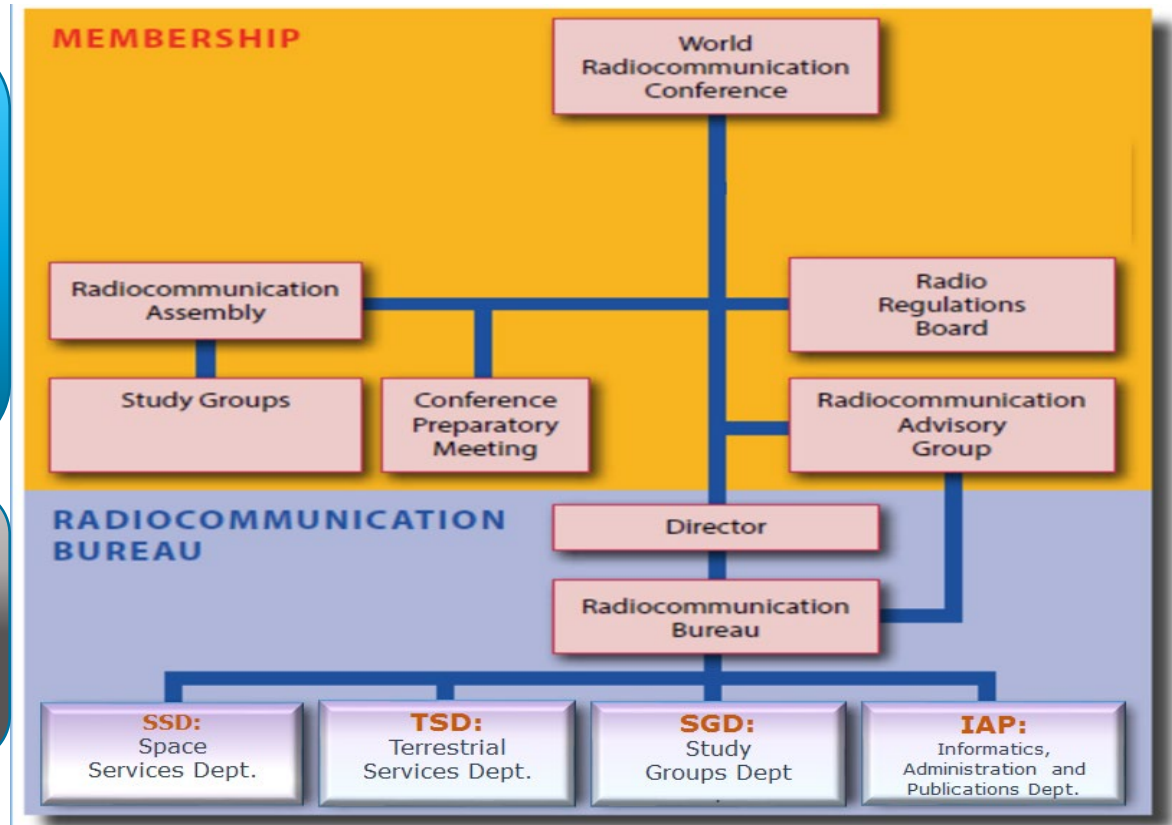
ACADEMIA
MEMBERS



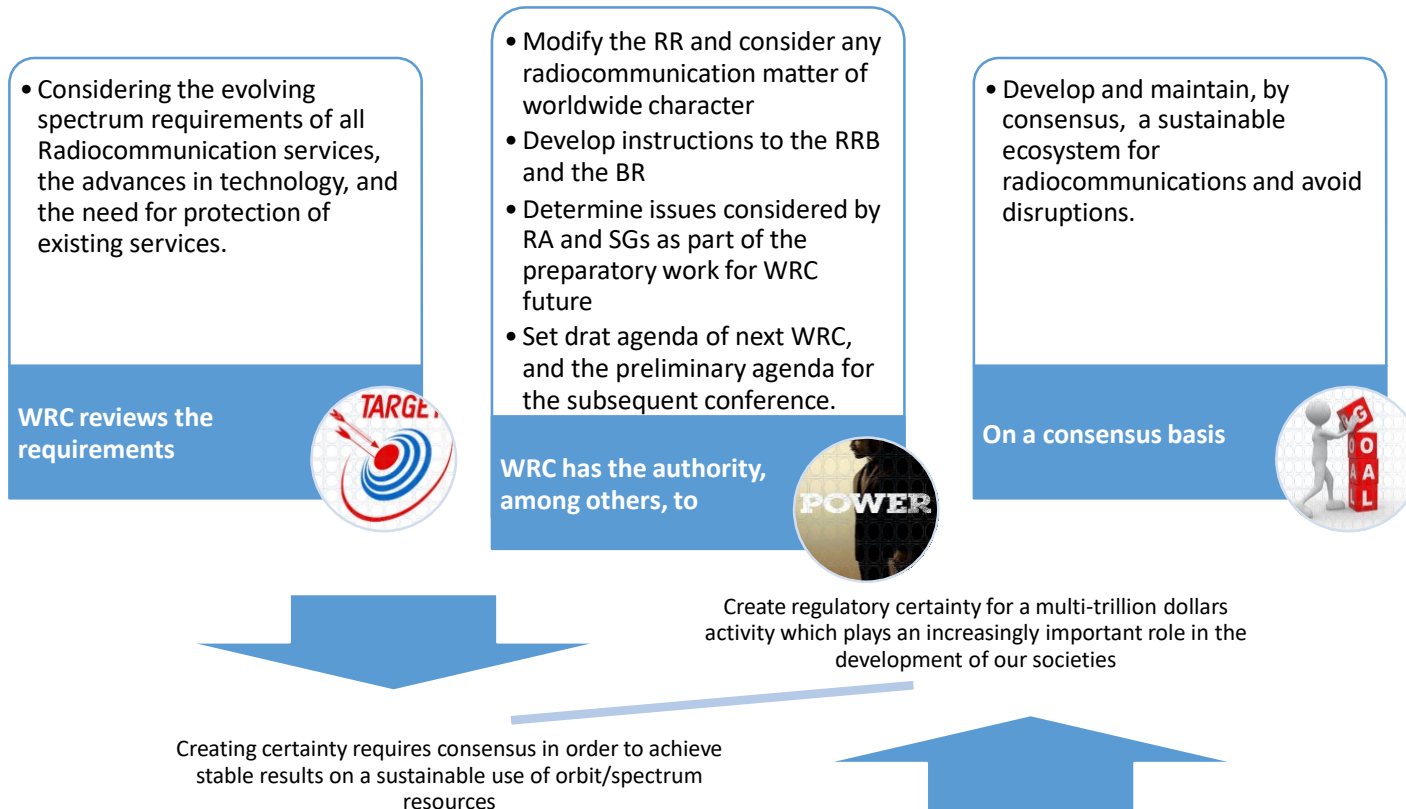
ITU-R and BR Structure

RADIO-COMMUNICATION SECTOR

RADIO-COMMUNICATION BUREAU

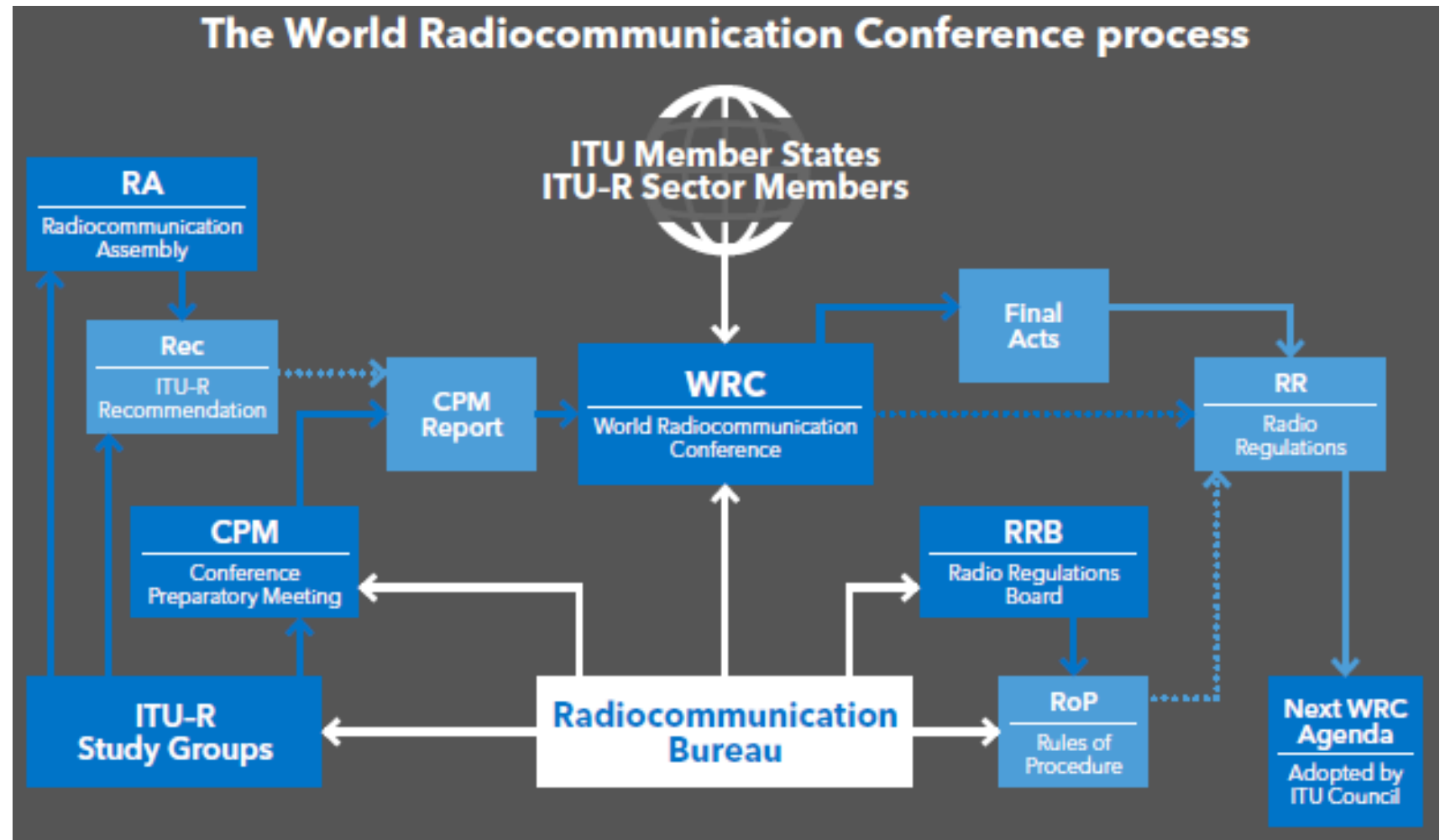


World Radiocommunication Conferences (WRC)



World Radiocommunication Conference Process

ITU
RADIOCOMMUNICATION
SECTOR



World Radiocommunication Conference Process

ITU
RADIOCOMMUNICATION
SECTOR



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)

ITU
RADIOCOMMUNICATION
SECTOR

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).

Radiocommunication Assemblies (RAs) may refer specific matters within its competence to the RAG. The RAG may be authorized to act on behalf of the RA between two Assemblies.

RAG meets yearly, before ITU Council meeting. Open to ITU-R members.

Radio Regulations Board (RRB)

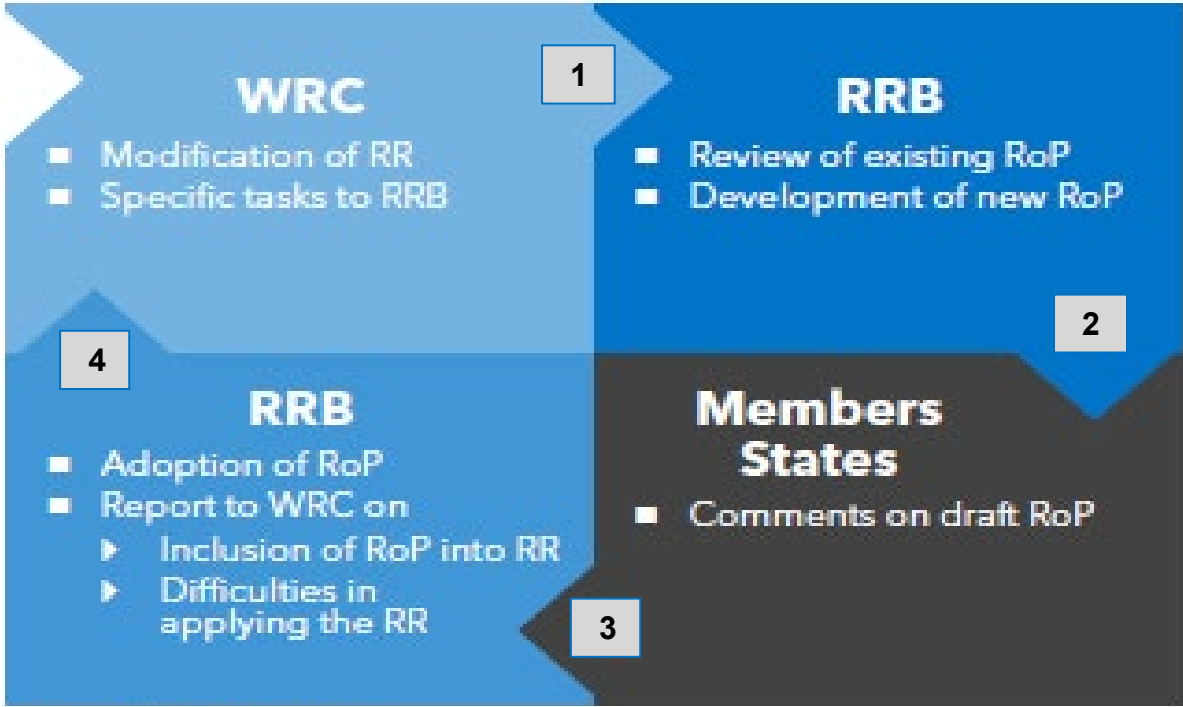
RRB is conformed of 12 members, elected by each Plenipotentiary Conference. It performs its functions independently and on a part-time basis, including:

- 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

Radio Regulations Board

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SECTOR



RR – Radio Regulations
RRB – Radio Regulations Board (the Board)
RoP – Rules of Procedure
WRC – World Radiocommunication Conference

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SECTOR

ITU-R Study Groups (SG)



SG 1: Spectrum management
SG 3: Radiowave propagation
SG 4: Satellite services
SG 5: Terrestrial services

* Some WPs meets 2 or 3

times/year; Conference Preparatory Meeting

SG 6: Broadcasting service
SG 7: Science services
Coordination Committee for
Vocabulary

Conference Preparatory Meeting

RADIOCOMMUNICATION BUREAU (BR)

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 SG, WPs and Task Groups;
- Applies the provisions of the RR and various Regional Agreements;
- Records and registers frequency assignments and orbital characteristics of space services,
- maintains the Master International Frequency Register, MIFR
- Coordinates the preparation, editing and dispatch of circulars, documents and publications developed within the Sector;

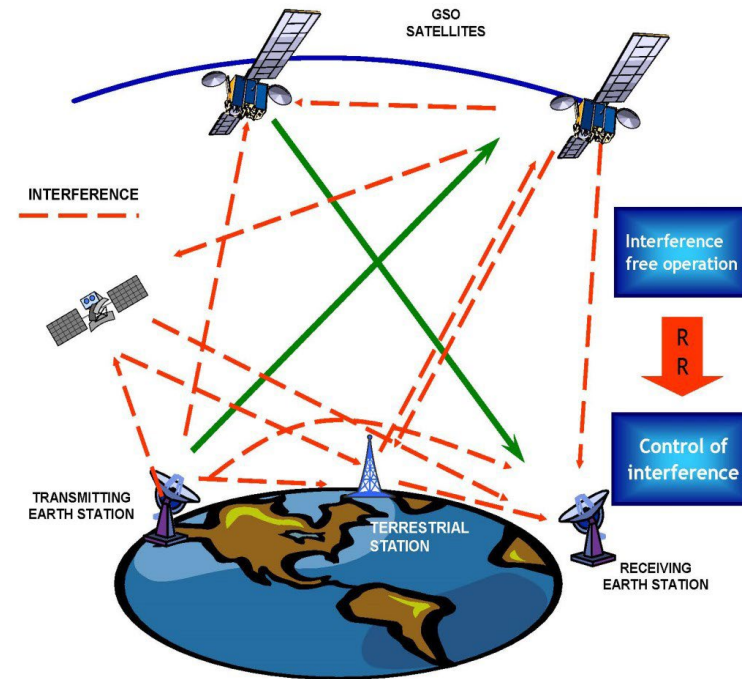
Space Services Department (SSD)

Coordination and recording procedures for space systems & earth stations:

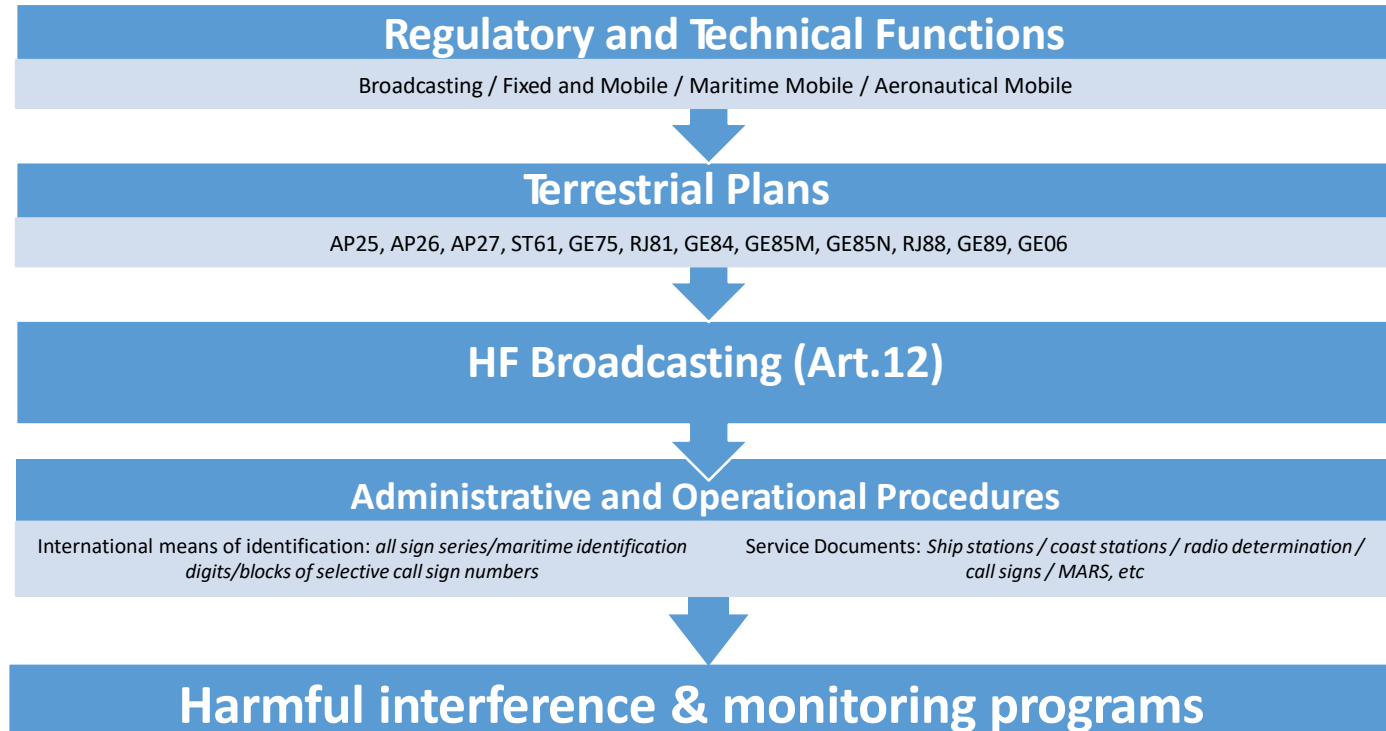
capture, processing and publication of data and examination of frequency assignment notices submitted by administrations for inclusion in the formal coordination procedures or recording in the Master International Frequency Register (MIFR).

Procedures for space related assignment or allotment *plans*

Assistance to administrations on all of the above issues



Terrestrial Services Department (TSD)



Study Groups Department (SGD)

Activities include:

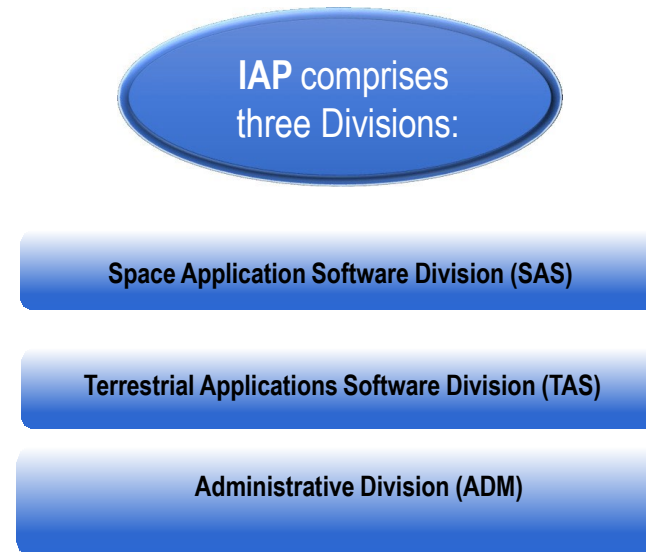
- ❖ Providing Counsellors who assist the Chairs of ITU-R Study Groups and Working Parties in the conduct of their meetings;
- ❖ All secretariat support for the ITU-R Study Groups and their Working Parties
- ❖ Organization of InterRegional Workshops in preparation for WRCs
- ❖ Organizes and supports holding of RAs and CPMs;
- ❖ Capacity-building activities, including supporting the regional preparatory activities for RAs and WRCs



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
- ❖ BR Administrative functions, including organization and support of ITU-R conferences and meetings



ITU
RADIOCOMMUNICATION
SECTOR

World & Regional Radiocommunication Seminars (WRS/RRS)

Disseminates worldwide the most recent revision of the **Radio Regulations** and the associated **RoP**

Fosters **human capacity building** on the use of the radio-frequency spectrum and the satellite orbits, particularly the application of the provisions of the ITU Radio Regulations

Complemented with sessions dedicated to spectrum-related **topics of particular interest** to the involved **region**.

Hosted by the spectrum management authorities in cooperation with the relevant regional organizations and the ITU regional/areas offices

Thank you!

ITU – Radiocommunication Bureau

Questions to

brmail@itu.int or

Joaquin.restrepo@itu.int



Many thanks to ITU for the guidance,
for acting as a bridge to get the
members together for a better
communication, and for acting as a
platform for better cooperation.

Yang Zhen,
Professor and President,
Nanjing University of Posts
and Telecommunications, China

In addition to falling closely in
line with Georgia Tech's strategic
vision...our collaboration with ITU
also aims at fostering productive
relationships with industry, academia
and other organizations actively
working in the ICT arena.

Alain Louchez,
Director of Center for the Development and
Application of Internet of Things Technology,
Georgia Institute of Technology, USA

ICESI participation in ITU activities
allow us to expand our horizons not
only from a technical and academic
perspective but also for networking
and international relations.

Andrés Navarro Cadavid Ph.D.,
Director grupo de Investigación I2T, Departamento TIC,
ICESI University, Colombia

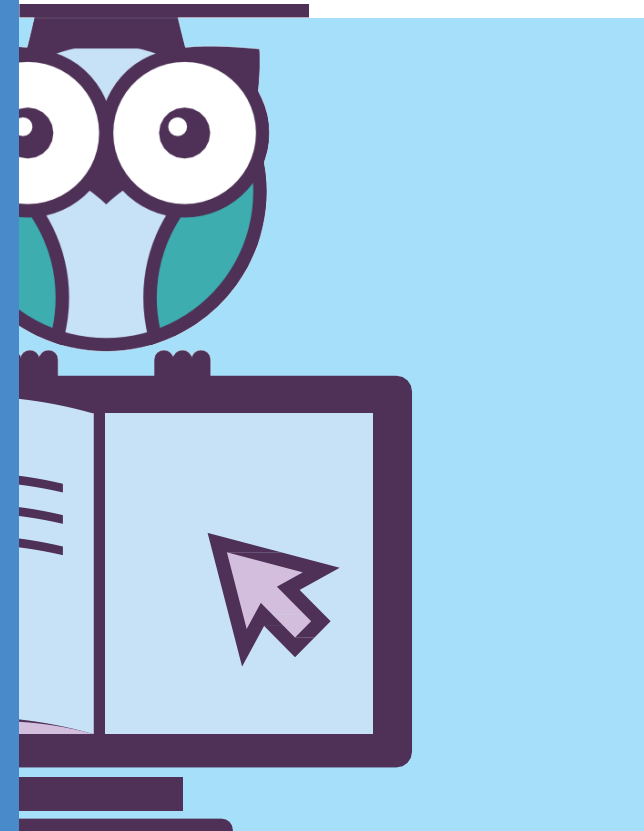


Join Today! Help us shape
the future of ICTs worldwide.

Contact us at membership@itu.int

www.itu.int/en/join

International Telecommunication Union
Geneva, Switzerland



**Sharing
knowledge**

ITU Academia
membership
programme

ITU  Workshop
for Region 3