ITU-R in brief

Briefing

Diana Tomimura
Radiocommunications Bureau

Committed to connecting the world

ITU-T

Telecommunication standardization - network and service aspects (Bureau: TSB)



ITU-R

International regulation of radio-frequency spectrum and satellite orbits

(Bureau: BR)

ITU-D

Promote and assist the extension of ICTs to all the world's inhabitants narrowing the digital divide (Bureau: BDT)

193 Member States

319 Private Sector

169 Academia

Radiocommuncations Bureau (BR)

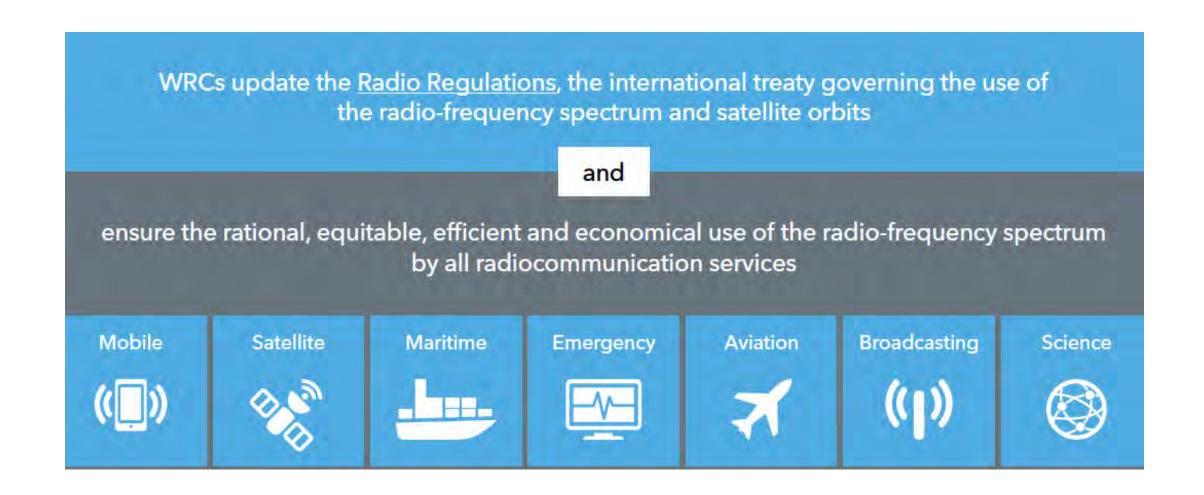
The BR Director, Mr. Mario Maniewicz, is responsible for the management of the BR which organizes and co-ordinates the activities of the Radiocommunication Sector (ITU-R).



Mario Maniewicz

Director, ITU Radiocommunication Bureau

Radiocommunication Services



Examples of Radiocommunication Services



IMT-2020 (5G)



Non-GSO Satellite Systems

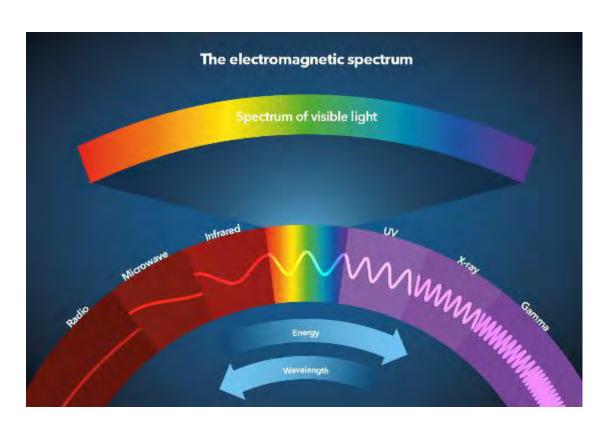


Broadcasting



Aeronautical & Maritime

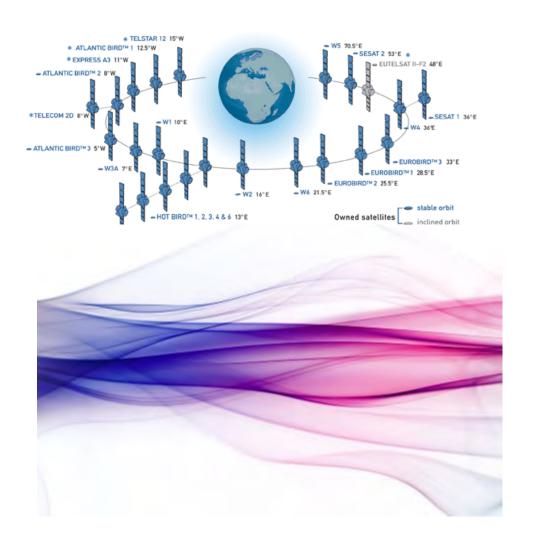
Radio spectrum and satellite orbits





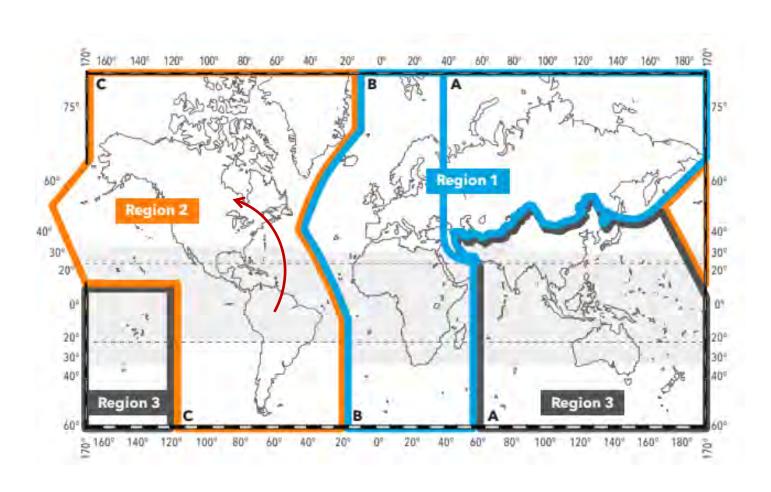
Limited natural resources

Why regulate?



- So that radio frequencies and any associated orbits are used rationally, efficiently and economically, and countries or groups of countries may have equitable access to orbits and frequencies
- So that radiocommunication services can operate efficiently and effectively without harmful interference

Why harmonize?



- Enables international roaming, allowing citizens to use the same device in different countries
- Creates economies of scale, thereby enabling affordable devices and services
- Facilitates emergency communications

International Regulations

The Radio Regulations is the international treaty on the use of radio spectrum and satellite orbits

- 1st "International Radio Telegraph Convention" was signed in 1906
- The treaty is updated every 4 years during a World Radiocommunication Conference (WRC)
- Next WRC will take place in 2023

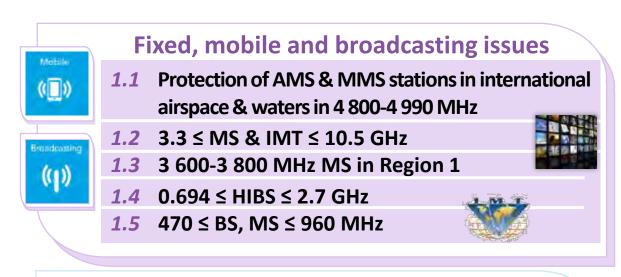


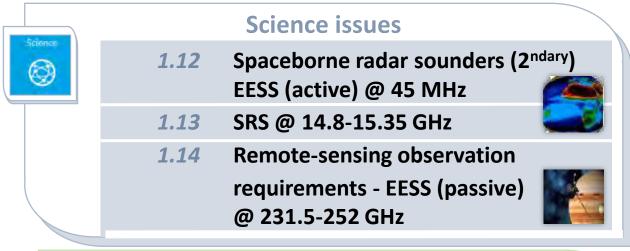


World Radiocommunication Conference (WRC-23)



WRC-23 Agenda







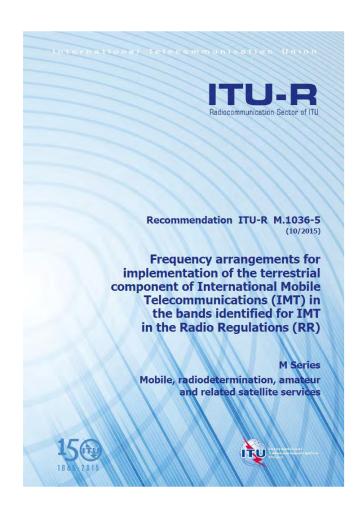


Note: The WRC-23 agenda item numbers are indicated in italic (agenda items 2, 3, 4, 5, 6, 8, 9 (9.1, 9.2, 9.3) and 10 are not mentioned here).

International Standards

ITU-R Recommendations constitute a set of international technical standards

- Provide specifications, requirements, data guidance, or procedures for a specified application
- Developed in collaboration between public, private sector, academia and other regional and international organizations
- Approved by ITU Member States
- Their implementation is not mandatory, however they are commonly implemented worldwide



Free online access to all ITU-R
Recommendations at:
https://www.itu.int/pub/R-REC

Summary

- Develop and update international regulations on the use of spectrum and orbits
- Develop and adopt standards and best practices on the use of orbit/spectrum
- Apply these regulations (frequency register and coordination)
- Disseminate information on these regulations, standards and best practices

