



Lecture Text for

Module 2-1: Structure (WRC)

- Basic structure of a WRC (including how it is decided)
- Management team/Office bearers of WRC

Lecturer: Mr. Phillipe Aubineau

Introduction of the Lecturer

Mr. Phillipe Aubineau



Biographical notes

Mr. Philippe Aubineau is Counsellor at the Radiocommunication Bureau (BR) of the International Telecommunication Union (ITU). He is responsible since June 2006 for ITU-R Study Group 1 on Spectrum Management and the Conference Preparatory Meeting for the World Radiocommunication Conference (WRC). From 2006 to 2015, he was also responsible for the ITU-R Special Committee on regulatory and procedural matters. Previous to taking up his current duties as Counsellor, he worked as radiocommunication engineer at the France Telecom research center where he was in charge of international frequency planning, coordination and registration for satellite networks.

He then joined the Space Services Department of the BR. Since 1995, he participated with increasing level of responsibility in all the WRCs of the ITU, which review and revise the Radio Regulations – the international treaty governing the use of the radio frequency spectrum and the satellite orbit.

Philippe Aubineau graduated from the University of Nice-Sophia Antipolis in France.



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- for APG/WRC -
8-9 March 2018, Perth, Australia**



Module 2-1: Structure

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Radiocommunication Bureau, ITU**



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- 1. Overview of the ITU and ITU-R**
- 2. WRC main objectives, purposes and inputs**
- 3. WRC structure and management team**



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International Telecommunication Union

The **United Nations Specialized Agency** for **Information and Communication Technologies** (ICTs)



2015 marked **150 years of experience** and innovation (www.itu.int)

Governments, industry and academia working together at ITU to:

- ✓ **Effect allocation of spectrum**
- ✓ **Facilitate the worldwide standardization of telecommunication**
- ✓ **Technical assistance to developing world**
- ✓ **Harmonization the development of telecommunication facilities**

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ITU Global Presence

THIS IS ITU Video



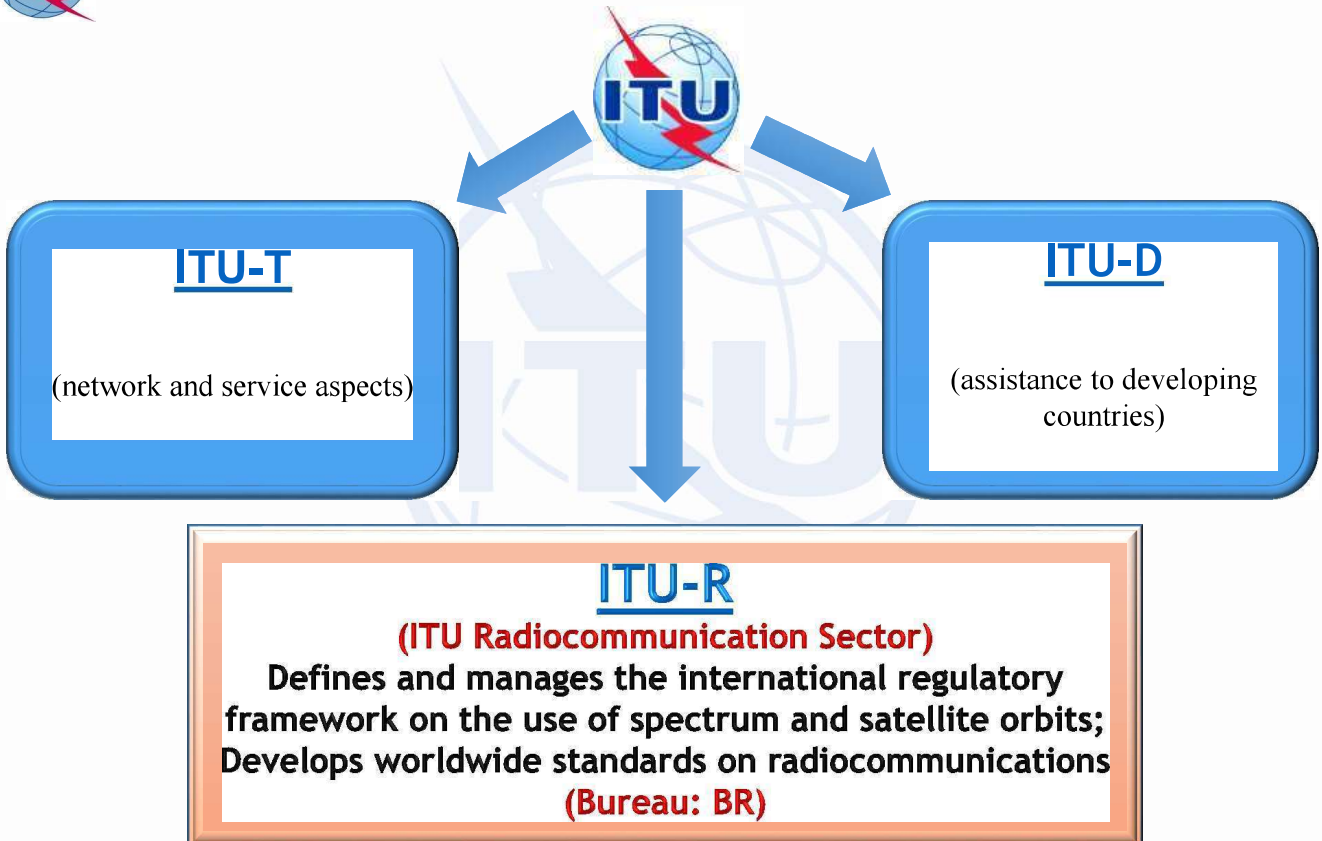
193
Member
States

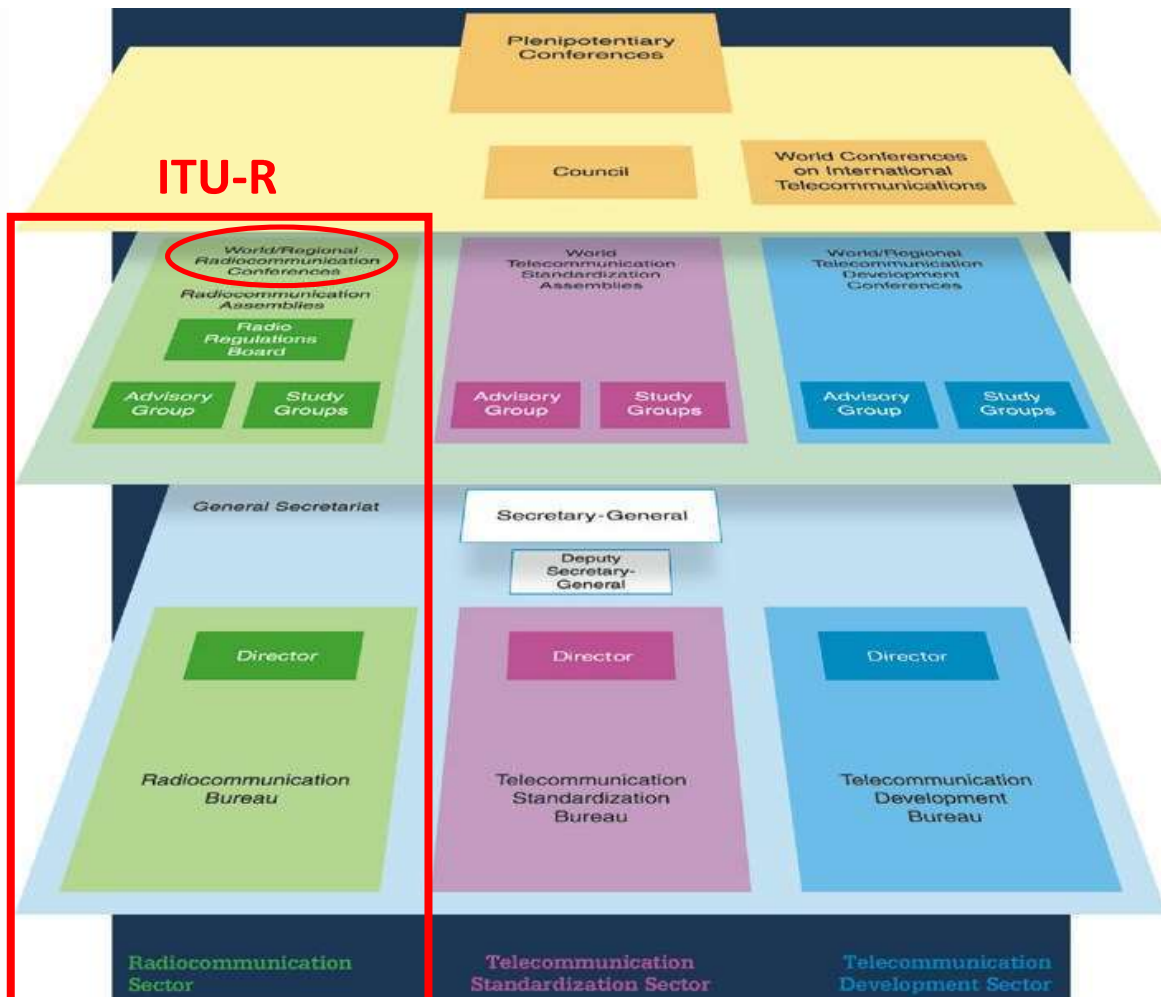
800+
Members

120
Universities & Research
Establishments



ITU Sectors





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Instruments of the ITU (cs Art. 4)

ITU is ruled by legal instruments, configured as international treaties and therefore binding for all signatory States



- Constitution (CS) of the ITU
 - Convention (CV) of the ITU
 - General Rules (GR) of conferences, assemblies and meetings of the Union
 - Optional Protocol on the Compulsory Settlement of Disputes Relating to the CS, CV and Administrative Regulations
 - PP Decisions, Resolutions & Recommendations
- www.itu.int/pub/S-CONF-PLEN-2015

Administrative Regulations: ➤ International Telecommunication Regulations



- **Radio Regulations (RR)**
- ✓ Articles (Vol. 1) ✓ Appendices (Vol. 2)
- ✓ W(A)RC Resolutions & Recommendations (Vol. 3)
- ✓ ITU-R Rec. incorporated by reference (Vol. 4)

www.itu.int/pub/R-REG-RR

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Some main WRC Objectives

- Create **regulatory certainty for a multi-trillion dollars industry** which plays an increasingly important role in the development of our societies
- For fixed, mobile, satellites & broadcasting industries, **global spectrum harmonization is essential for economies of scale, roaming and interoperability**
- Creating certainty **requires consensus** in order to **achieve stable results**.
This demands time, efforts and patience!



WRC Purposes

- ✓ Updates the Radio Regulations (CS 89) (*treaty status*)
 - Spectrum Allocation
 - Coordination and Notification procedures
 - Administrative and operational procedures
- ✓ Adopts Resolutions
- ✓ Held every 3-4 years (CS 90)
- ✓ Other related provisions can be found mainly in CS Art. 13, CV Art. 7 and in the GR
- ✓ WRC shall have reciprocal interpretation in 6 languages: A, C, E, F, R and S (see CS 172)



WRC inputs

Agenda: draft in WRC Res & final in Council Res

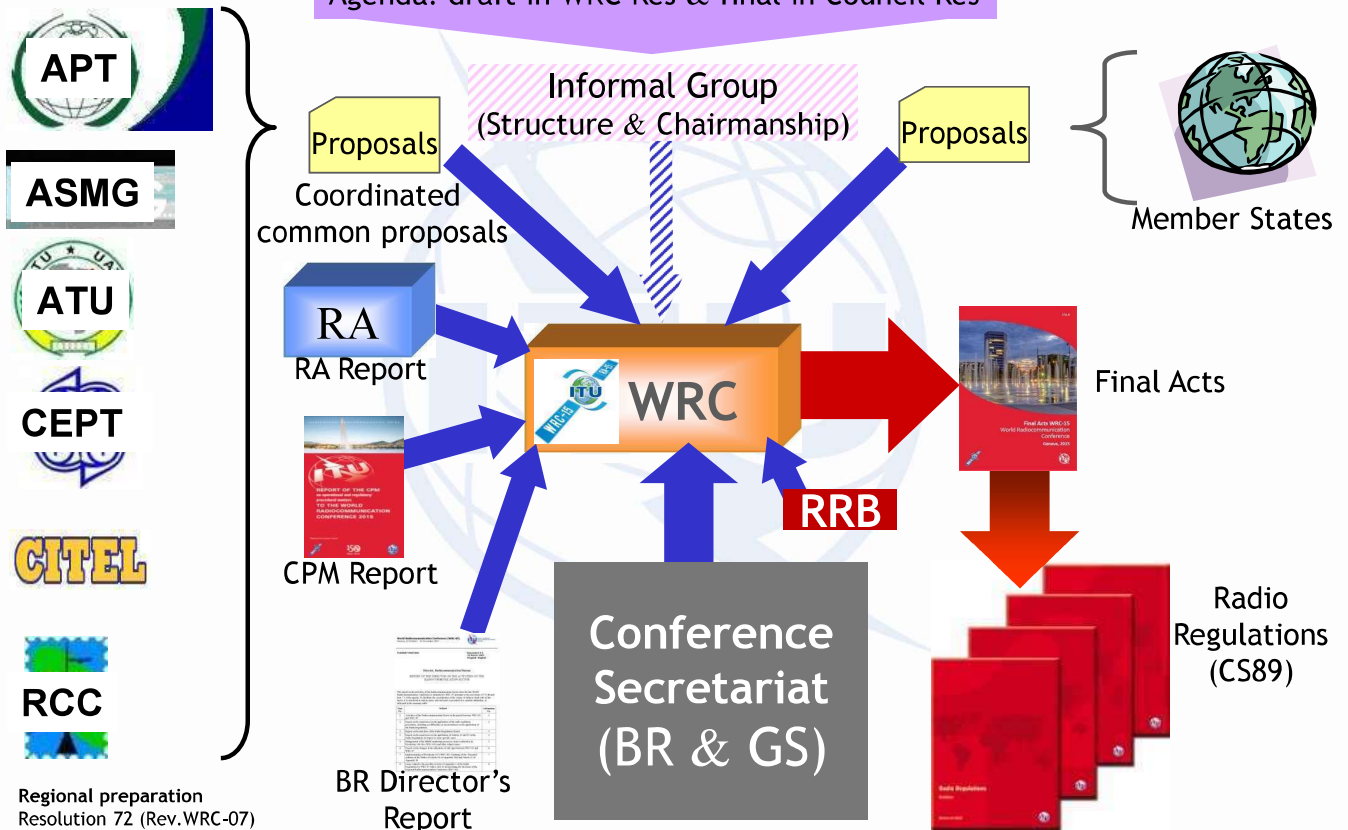




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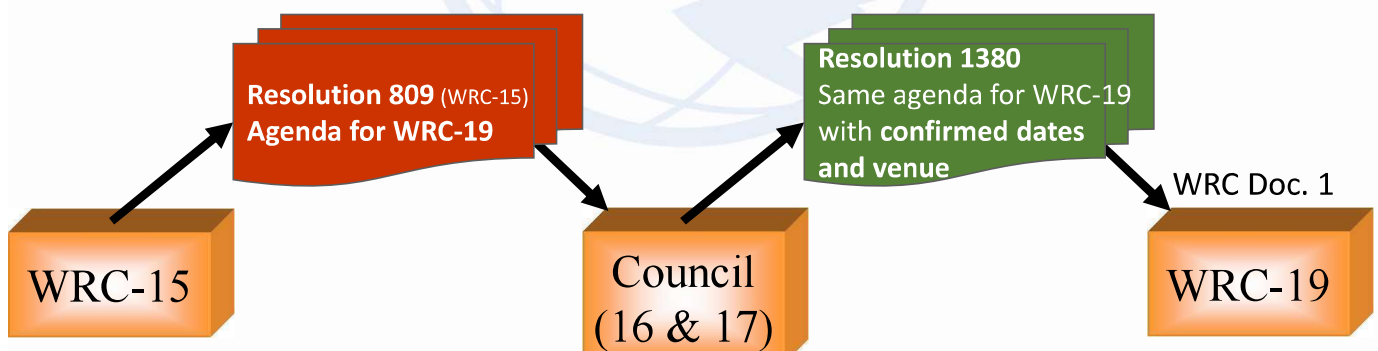
Structure of the WRC Agenda

➤ **Standing agenda items (e.g. 1, 2 to 10) to consider, review or identify:**

- | | | |
|--|-----------------------|-------------------------------|
| 1. Specific items | 4. W(A)RC Res. & Rec. | 7. PP Res. 86 (Sat. RR proc.) |
| 2. Incorporation by Reference | 5. RA Report | 8. RR Art. 5 footnotes |
| 3. Consequential changes to RR | 6. Urgent studies | 9. BR Director's Report |
| 10. items for the next WRC agenda and preliminary agenda for the future WRCs | | |

➤ **Specific agenda items (e.g. 1.1, 1.2, ..., up to 1.16 for WRC-19)**

& possible question from PP (CV 119) (see also PP Res. 80)





Preparation of WRC Structure

The inaugural meeting of the WRC is preceded by the **Heads of Delegation meeting (GR 49)** to consider:

- ✓ **The proposal for the WRC organization (i.e. structure & allocation of WRC agenda items)**
- ✓ **The proposals for the election of the Chairman & Vice-Chairmen of the WRC and of the Ch. & V-Ch. of its committees** taking into account ... principles of rotation, geographical distribution, necessary competence ...
- ✓ **The draft agenda for the first WRC Plenary Meeting**

Note: usually, an informal HoD meeting is organized the day before the WRC opening (see also PP-02 Res. 80)

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Approval of WRC Structure

At the first plenary meeting (see GR 53 to 58):

- ✓ **Election of the Chairman and Vice-Chairmen of the WRC (PLEN)**
- ✓ **Approval of the WRC Committees (COM) & Election of COM Chairmen & Vice-Chairmen**
- ✓ **Designation of the WRC secretariat**
- ✓ **Approval of the Allocation of documents to Committees**



WRC Standing and Specific Committees

- **Standing Committees (GR 65)** usually at WRCs
 - ✓ **Steering Committee (GR 66 & 67)** **COM 1**
(= Chairmen & Vice-Chairmen of PLEN and COMs)
 - ✓ **Credentials Committee (GR 68)** **COM 2**
 - ✓ **Budget Control Committee (GR 71 to 74)** **COM 3**
 - ✓ **Editorial Committee (GR 69 & 70)** **COM 7**

- **Specific Committees (GR 63)** **COM 4**
 - with 2/3 working groups each to **COM 5**
 - consider the WRC agenda items **COM 6**



WRC-12 Structure

Preliminary version prepared by the informal group

WRC-12 PLENARY			
COM 1 Steering	COM 4	COM 5	COM 6
COM 2 Credentials	WG 4A (radiolocation issues): §§ 1.14, 1.15, 1.21, 3*, 5*	WG 5A (science issues): §§ 1.6, 1.11, 1.12, 1.16, 1.24, 8.1.1 (Issue C), 3*, 5*	WG 6A (general issues): §§ 1.2, 1.19, 1.22, 3*, 5*, 8.1(8.1.1 Issue A and other parts)
COM 3 Budget	WG 4B (aeronautical issues): §§ 1.3, 1.4, 1.7**, 3*, 5*, 8.1.2*	WG 5B (satellite issues): §§ 1.13, 1.18, 1.25**, 7, 8.1.1 (Issue B), 8.1.2 (satellite issues), 8.1.3, 3*, 5*	WG 6B (update regulations): §§ 1.1, 2, 3*, 4, 5*, 6, 8.1.2 (non-satellite issues)
COM 7 Editorial	WG 4C (maritime and amateur issues): §§ 1.9, 1.10, 1.23, 3*, 5*, 8.1.1*, 8.1.2*	WG 5C (fixed, mobile and broadcasting issues): §§ 1.5, 1.8, 1.17, 1.20, 3*, 5*	WG 6C (future work program): § 8.2

* relevant parts.

** meeting sessions of WG 4B and WG 5B and their respective SWGs dealing with §1.7 and §1.25 shall not be carried in parallel.

- **Approved structure in [WRC-12 Doc. 155](#)**
- **List of Chairmen & Vice-Chairmen in [WRC-12 Doc. 146](#), Secretariat in [Doc. 156](#)**
- **Organization of COMs 4, 5 & 6 in WRC-12 Doc. [149r1](#), [160](#) & [172](#) resp.**



WRC-15 Structure

Preliminary version prepared by the informal group

WRC-15 PLENARY			
COM 1 Steering	COM 4 1.1; 1.2; 1.3; 1.4; 1.5*; 1.15; 1.16; 1.17; 1.18; 9.1.7; GFT*; 3**; 5**; 9.2**	COM 5 1.6; 1.7; 1.8*; 1.9; 1.10; 1.11; 1.12; 1.13; 1.14; 3*; 5*; 7*; 9.1.1; 9.1.2; 9.1.3; 9.1.5; 9.1.8; 9.2**; 9.3	COM 6 2; 3**; 4; 5**; 6; 8; 9.1.4; 9.1.6; 9.2**; 10
COM 2 Credentials	WG 4A 1.5*, 1.17, 1.18, GFT*, 3**, 5**, 9.2**	WG 5A 1.11, 1.12, 1.13, 1.14, 5**, 9.2.1, 9.2.2	WG 6A 2, 3**, 4, 5**, 8, 9.1.4, 9.1.6, 9.2**
COM 3 Budget Control	WG 4B 1.4, 1.15, 1.16, 3**, 5**, 9.2**	WG 5B 1.6, 1.7, 1.8* , 1.9, 1.10, 9.1.1	WG 6B 6, 10
COM 7 Editorial	WG 4C 1.1, 1.2, 1.3, 3**, 5**, 9.1.7, 9.2**	WG 5C 1.8*, 3*, 7*, 9.1.2, 9.1.3, 9.1.5, 9.1.8, 9.2**, 9.3	

* The meetings on 1.5, 1.8, 7 and GFT shall not be in parallel.

** Relevant parts of AI 3, 5, 9.2 should be allocated as appropriate.

- **Approved structure in [WRC-15 Doc. 20](#)**
- **Organization of COMs 4, 5 & 6 in [WRC-15 Doc. 164](#), [153](#) & [162](#) respectively**



WRC-15 Structure

Preliminary version with [topics] & [Chairmanship]

WRC-15 PLENARY [African Group, NIG]			
COM 1 Steering [African Group, NIG]	COM 4 [CEPT, UK] [mainly terrestrial] 1.1; 1.2; 1.3; 1.4; 1.5; 1.15; 1.16; 1.17; 1.18; 9.1.7; GFT; 3; 5; 9.2	COM 5 [Arab Group, UAE] [mainly space, satellite] 1.6; 1.7; 1.8; 1.9; 1.10; 1.11; 1.12; 1.13; 1.14; 3; 5; 7; 9.1.1; 9.1.2; 9.1.3; 9.1.5; 9.1.8; 9.2; 9.3	COM 6 [CITEL, USA] [other and future issues] 2; 3; 4; 5; 6; 8; 9.1.4; 9.1.6; 9.2; 10
COM 2 Credentials [APT, AUS]	WG 4A [RUS] [aeronautical, radars] 1.5, 1.17, 1.18, GFT, 3, 5, 9.2	WG 5A [USA] [EESS, SRS, UTC] 1.11, 1.12, 1.13 , 1.14, 5, 9.2.1, 9.2.2	WG 6A [KEN] [other issues] 2, 3, 4, 5, 8, 9.1.4, 9.1.6, 9.2
COM 3 Budget Control [RCC, UZB]	WG 4B [EGY] [amateur, maritime] 1.4, 1.15 , 1.16, 3, 5, 9.2	WG 5B [CHN] [satellite allocations] 1.6, 1.7, 1.9, 1.10, 9.1.1	WG 6B [ARM] [future issues] 6, 10
COM 7 Editorial [F]	WG 4C [CAN] [IMT, MS, PPDR] 1.1, 1.2, 1.3, 3, 5, 9.1.7, 9.2	WG 5C [NOR] [satellite regulatory] 1.8, 3, 7, 9.1.2, 9.1.3, 9.1.5, 9.1.8, 9.2, 9.3	

- **List of Chairmen & Vice-Chairmen in [WRC-15 Doc. 21](#), Secretariat in [Doc. 22](#)**
- **The 8 WGs established 23 sub-working groups or 4 ad-hoc groups (see [WRC-15 Doc. DT/16r1](#), [DT/10r1](#), [DT/12r1](#), [DT/14r1](#), [DT/18r1](#), [DT/20r1](#), [DT/22r1](#), [DT/24r4](#))**



Topics on the WRC-19 Agenda

17 specific & 6 standing items, **Res.809** (WRC-15)



- 1.13
- 1.14
- 1.15
- 1.16



Fix. & Mob. BB Apps

(24.25 < IMT < 86 GHz, HAPS, Apps.Id>275 GHz, WAS/RLAN @ 5 GHz)

Maritime (GMDSS modernization (+Sat.), use of radio devices, VDES Sat component)



- 1.8
- 1.9.1
- 1.9.2

- 1.1



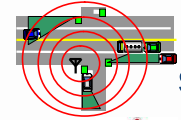
Amateur in R1 @ 50-54 MHz (4WW allocation)



Aeronautical (GADSS needs)



- 1.10



New Transport systems

(harmonized bands for railways, ITS)

- 1.11
- 1.12

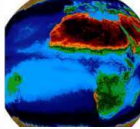


Satellite issues (BSS/FSS @12 GHz, ESIM, regul. for N-GSO FSS @ 37.5 to 51.4 GHz)



- 1.4, 1.5, 1.6

- 1.2
- 1.3
- 1.7



Earth resources & Climate monitoring Weather forecast, DCS protection, TT&C for N-GSO Sat. of short duration



Regulatory issues

(Sat. regulations, harmonization of spectrum use, etc.)

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Note: WRC-19 agenda item numbers indicated in italic

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Information for Chairmen (1/3)

✓ **WRCs, their preparatory studies and the regular ITU-R activities represents many meetings successfully chaired by lots of Chairmen**

➤ **ITU General Rules (GR) of Conferences, Assemblies and Meetings provide Rules of Procedure and useful tools to facilitate chairing (see ITU Collection of Basic Texts at: www.itu.int/pub/S-CONF-PLEN, and ITU-R working methods in [Res. ITU-R 1](#) and [associated guidelines](#))**



Information for Chairmen (2/3)

- **In accordance with GR Nos. 59 to 62, a Chairman shall:**
 - **Ensure that the Rules of Procedure (of the GR) are applied**
 - **Open & Close the meeting**
 - **Direct the deliberations**
 - **Ensure that order is maintained**
 - **Give the floor to speakers**
 - **Protect right of each delegation to express its opinion freely & fully on the point at issue**
 - **Ensure that discussion is limited to the point at issue (The Chairman may interrupt a speaker who departs from the point at issue, requesting to confine to the subject under discussion)**
 - **Announce the decisions adopted**
- **Persons desiring to speak must first obtain consent of the Chairman & generally begin by announcing in what capacity they speak (GR No. 94)**



Information for Chairmen (3/3)

Commonly used GR provisions to deal with difficult issues

- **Closing the list of speakers - During the debate, the Chairman**
 - **may rule that the list of speakers wishing to take the floor be read**
 - **shall add the names of other delegations which wish to speak and**
 - **may then, with the assent of the meeting, rule that the list be closed** (nevertheless, as an exceptional measure, the chairman may if finding it appropriate to do so rule that a reply may be made to any previous statement, even after the list of speakers has been closed) (GR No. 111)

The list of speakers having been exhausted, the Chairman shall declare discussion on the matter closed (GR No. 112)
- **The Chairman may at any time submit proposals* likely to accelerate the debates (GR No. 84) (* could be substantive or of procedural nature)**
- **The Chairman may propose to postpone or close a discussion, or that a meeting be suspended or adjourned (GR No. 60) (enabling offline negotiations, informal and/or formal sub-groups)**



Some statistics on WRC-15

Took place from 2 to 27 November 2015 in Geneva

➤ **3275 Participants**
(2780 from MS & 495 from OE)

➤ **162 Member States**

➤ **130 Observers**

➤ **678 Documents**
submitted with MS proposals

➤ **2888 MS Proposals**
~2/3 of common proposals



Thank you!

