Introduction to

Structure and Processes

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Chair, ITU-R WP5D Group on Industrial 5G
Chair, AWG Task group on PPDR
Member Steering Board WWRF
Agenda

1. Introduction to ITU and its Structure
2. ITU Plenipotentiary Conference
3. ITU Radiocommunications Sector
4. ITU Telecom Standardization Sector
5. ITU Telecom Development Sector
International Telecommunication Union

- Created in 1865, based in Geneva, 193 Member States, around 900 private-sector entities and academic institutions
- 12 regional offices, about 700 staff
- ITU is structured into three operational Sectors and the General Secretariat:
  - ITU-R - Radiocommunications -> global radio spectrum management and radiocommunication standardization
  - ITU-T - Standardization -> standardization of wireline networks, service aspects
  - ITU-D – Development -> assistance in the extension of ICTs to all the world’s inhabitants, narrowing the digital divide
ONE MEMBERSHIP FOR MEMBER STATES FOR ALL THREE SECTORS – FEES BASED ON NUMBER OF UNITS OPTED (1 unit ~ 2.6 cr INR)

Separate membership for each sector for companies & academia (sector members)
ITU
PLENIPOTENTIARY
CONFERENCE
PLENIPOTENTIARY CONFERENCE

ITUPP
supreme organ of the Union
(CS, Art.7)

Determines the general policies for fulfilling the purposes of the Union

Elects the management team of the Union, the Council Member States and RRB Members

Amends CS & CV Adopts the Financial Plan & Strategic Plan

Held every 4 years

During 3 weeks

Attending +2000 participants

✓ Elect the Member States which are to serve on the Council;
✓ Elect the Secretary-General, the Deputy Secretary-General and the Directors of the Bureaux of the Sectors as elected officials of the Union;
✓ Elect the members of the Radio Regulations Board

26 September - 14 October 2022
Bucharest, Romania
Important dates regarding PP-22

- **31 Dec. 2021**: Deadline for Member States to announce their provisional choice of class of contribution.
- **16 Jan. 2022**: Deadline for submission of proposals to amend CS/CV (CS 224 / CV 519).
- **May 2022**: Opening of online registration (Exact date TBC).
- **26 May 2022**: Deadline for submission of other proposals (GR 40).
- **5 Sept. 2022**: Firm deadline for all contributions (Res. 165, Rev. Dubai, 2018).
- **24 Sept. 2022**: Last meeting of C22.
- **26 Sept. 2022**: Meeting of Heads of Delegation, Opening Ceremony, and First Plenary.
Process for the development of the Strategic Plan

Secretariat
- SG provides inputs to Council (CS/Art. 11, 74A)

Council
- PP Year - 1
  - Council shall initiate the preparation of a draft new strategic plan for the Union (CV/Art. 4, 62A)
- PP Year
  - Draft new SP
  - Final draft new SP

PP
- Establishes the Strategic Plan for the Union (CS/Art. 8, 51)

Strategic Plan

CWG-SFP
- Provide input for the preparation of the draft new strategic plan (CV/Art. 4, 62A)
- • Member States
  • Sector Members
  • Advisory Groups
- Open and public consultations

Secretariat
- SG coordinates the implementation of the SP (CV/Art. 5, 86A)

(PP year - 1) (PP year)
## Structure of ITU Plenipotentiary Conference
Based on PP - 2018

<table>
<thead>
<tr>
<th>COMMITTEE 1</th>
<th>COMMITTEE 2</th>
<th>COMMITTEE 3</th>
<th>COMMITTEE 4</th>
<th>COMMITTEE 5</th>
<th>COMMITTEE 6</th>
<th>WORKING GROUP OF THE PLENARY (WG-PL)</th>
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</thead>
<tbody>
<tr>
<td>Steering Committee</td>
<td>Credentials</td>
<td>Budget</td>
<td>Editorial</td>
<td>Policy and legal issues</td>
<td>Administration and management</td>
<td>Issues related to public policies</td>
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</table>

Based on PP-2018
ELECTIONS

ITU-PP
PLENIPOWER CONFERENCE

supreme organ of the Union
(CS, Art. 7)

- Elected Officials (Management Team of the Union)
  - 5 posts
- Council Membership
  - 48 seats
- Radio Regulations Board (RRB) Membership
  - 12 members
ANNOUNCED CANDIDATES FOR ELECTED OFFICIALS

**Secretary General**
- Ms Doreen BOGDAN-MARTIN
  - Country: United States
  - Region A: The Americas
  - CV and Vision Statement
  - Campaign Video

**Director BR**
- Mr Rashid ISMAILOV
  - Country: Russian Federation
  - Region C: Eastern Europe and Northern Asia
  - CV and Vision Statement
  - Brochure

**Deputy Secretary General**
- Mr Tomas LAMANAUSKAS
  - Country: Lithuania
  - Region B: Western Europe
  - CV and Vision Statement
  - Brochure
  - Campaign Video

**Director TSB**
- Dr Chaesub LEE
  - Country: South Korea (Rep. of)
  - Region E: Asia and Australasia
  - CV and Vision Statement
  - Brochure
  - Campaign Video

**No Candidate as yet for Director of the BDT**
- Mr Mario MANIEWICZ
  - Country: Uruguay
  - Region A: The Americas
  - CV and Vision Statement
  - Brochure
ELECTIONS PROCESS

For Elected Officials

1st Ballot: Internal
- 6 Hrs or less if PL decides
- All Candidates
  - if none withdraw

2nd Ballot: Internal
- 6 Hrs or less if PL decides
- All Candidates
  - if none withdraw

3rd Ballot: Internal
- 12 Hrs or less if PL decides
- All Candidates
  - if none withdraw

4th Ballot: Only 2

If tie, Eldest candidate gets elected
Announced Candidates for RRB in Asia

Region E: Asia and Australasia (3 seats)

Mr Majed ALKAHTANI
- Country: Saudi Arabia
- Region E: Asia and Australasia
- CV and Vision Statement

Mr Jianjun CHENG
- Country: China
- Region E: Asia and Australasia
- CV and Vision Statement

Dr Meiditomo SUTYARJOKO
- Country: Indonesia
- Region E: Asia and Australasia
- CV and Vision Statement
ELECTIONS PROCESS

For RRB Members elections

1st Ballot

if tie

Special Ballot

6 Hrs or less if PL decides

If tie

Eldest candidate gets elected
ITU-R
Radiocommunications Sector
Structure of ITU Radio Sector

- World Radio-communication Conference
- Radiocommunication Assembly
- Radio Regulations Board (RRB)
- Radio Advisory Group (RAG)
- ITU-R Study Groups: 1, 3, 4, 5, 6, 7, SC
- Radio Bureau (BR)
ITU World Radio Conferences decide which service gets what Frequency spectrum

- WRC is a Global conference organized by the ITU every 3-4 years to update Radio Regulations, the international legal treaty governing the use of the radio-frequency spectrum and satellite orbits.
- Each WRC prepares the agenda for the next WRC and initiates a new study cycle, in preparation for the next WRC. Technical Studies for WRC Agenda items are done by ITU-R Study Group and are presented in the CPM Report to administrations and the WRC.

**High level process diagram of WRCs:**

1. **Technical Studies (support)**
   - CPM Report
   - ITU-R Reports & Recommendations
   - ITU-R Radio Assembly 2023

2. **Inputs**
   - Country Proposals
   - Regional Common Proposals

3. **Consensus decision-making**

4. **International Treaty Revised Radio Regulations**
Radio Regulations (RR)

- The Radio Regulations (RRs) have the status of a global treaty.
- The RRs are a Compilation of rules and procedures for use of spectrum internationally.
  - Frequency block allocations to defined radio services in Article 5
  - Mandatory or voluntary regulatory procedures (coordination, plan modification, notification, recording) that are adapted to the allocation structure
  - Appendices, Resolutions, Recommendations and ITU-R Recommendations incorporated by reference
- RRs incorporate the decisions of the World Radiocommunication Conferences.
- The RRs are Derived from Final Acts of the WRCs
Study Group 5 is responsible for fixed and mobile wireless technologies. Within SG5, WP5D is responsible for mobile cellular Services, called as IMT is the ITU terminology.
WRC

- Developed agenda for WRC-23 and preliminary agenda for WRC-27
- 1st Conference Preparatory Meeting (CPM) organized ITU-R preparatory studies to WRC-23
- Development of technical, operational and regulatory solutions for WRC-23 by ITU-R Study Groups
- Consolidation of study results and finalization of CPM Report to WRC-23
- Allocation/identification of bands, conditions at WRC-23

ITU-R studies

CPM-2

CPM-1

ITU-R studies

WRC-19

WRC-23

4 years
5G spectrum in mm wave bands above 24 GHz was the most important issue of WRC-19 (1.13)

• **WRC-19** identified in the following bands for IMT:
  - 24.25-27.5 GHz (**26 GHz**)
  - 37-43.5 GHz (**40 GHz**)
  - 45.5-47 GHz & 47.2-48.2 (**50 GHz**)
  - 66-71 GHz for IMT (**70 GHz**)

• A closed-door meeting convened by the Chairman Dr. Badavi to break the deadlock on the power limits and other conditions to protect satellites in the same and adjacent bands reached the main agreement on 5G limits after midnight of Wednesday 20th November after 5 hours of intense closed-door negotiations reached at WRC-19. India Played a crucial role in this.
WRC-19 was the First WRC held outside Geneva after 20 years
WRC-2000 was held in Istanbul, WRC-03, 07,12 and 15 in Geneva
Simultaneous work in six languages - English, French, Arabic, Chinese, Russian, and Spanish
WRC-19 also prescribed conditions for use of 18/28 GHz spectrum for Earth Stations in Motion (E-SIM) with suitable provisions to protect Terrestrial 5G and microwave links.

Easier in flight connectivity with Ku/Ka bands for Aeronautical E-SIMs.

The WRC-19 resolution lays out technical and regulatory conditions for any ESIM communicating with a GSO FSS space station within the frequency bands 17.7-19.7 GHz and 27.5-29.5 GHz.

28/18 GHz Satellite-powered e-agriculture can increase global crop yields 67%.

28/18 GHz Satellite ESIMs connect passengers + crew.

WRC-19 resolution will boost deployment of Earth stations in motion.
WRC19 decisions on Haps and GSO will bring the Internet to the remote and rural areas that are still not connected.
WRC Decision on satellite filing procedure will spur growth of Small Satellite Constellations

WRC-19 under Agenda Item 7 issue A has established Regulatory procedures for non-geostationary satellite constellations in the fixed-satellite service, opening the skies to next-generation communication capabilities. Mega-constellations of satellites consisting of hundreds to thousands of spacecraft in low-Earth orbit are becoming a popular solution for global telecommunications, as well as remote sensing, space research and education.
In Summary, ITU Radio Communications Sector (ITU-R)

- **RA**: Radiocommunication Assembly
- **CPM**: Conference Preparatory Meeting
- **Rec**: ITU-R Recommendation
- **RoP**: Rules of Procedure
- **RR**: Radio Regulations
- **SC**: Special Committee (Regulat. & Procedural)
- **SGs**: Radiocommunication Study Groups
- **WRC**: World Radiocommunication Conference
- **RRB**: Radio Regulations Board
- **ITU Council

**ITU Member States (including Regional Groups, Informal Group)**

**Technical bases**

**Radiocommunication Bureau**

**Final Acts**

**Revisions to RR, Resolutions & Recommendations**

**Next WRC Agenda**
ITU-T
Telecom
Standardization Sector
ITU-T develops TELECOM STANDARDS

**ITU-T activities**

### Standards

- **Output**: Wireline Standards direction
- **Where**: WTSA Resolutions
- **By whom**: WTSA
- **Contributors**: ITU-T membership, ITU-T Study Groups, Regional Groups, International organisations
- **How**: Member States driven

### Technology

- **Output**: Vision, overall requirements, specifications for all wireline services
- **Where**: ITU-T Reports & Recs
- **By whom**: ITU-T Study groups
- **Contributors**: ITU-T membership, other standard making bodies
- **How**: Industry and Governments driven
Structure of ITU Telecom Standardisation Sector

WORLD TELECOMMUNICATION STANDARDISATION ASSEMBLY (WTSA)

ITU-T STUDY GROUPS (SG)

TELECOMMUNICATION STANDARDISATION ADVISORY GROUP (TSAG)

TELECOM STANDARDIZATION BUREAU (TSB)
Structure of ITU Development Sector

- WORLD TELECOMMUNICATION DEVELOPMENT CONFERENCES (WTDC)
- REGIONAL DEVELOPMENT FORUMS (RDF)
- TELECOMMUNICATION DEVELOPMENT ADVISORY GROUP (TDAG)
- ITU-D STUDY GROUPS (SG)
- ITU DEVELOPMENT PROJECTS
WTDC Preparations

Theme for WTDC-21 – “Connecting the unconnected to achieve sustainable development”

Addition of a new, 2-3 day, Development/Partnership Segment or track with expanded participation, more interactive sessions, and delivering concrete development outputs

Development/Partnership segment should incorporate the HL segment with changes to the approach to policy statements

Development/Partnership segment to target International financial institutions, regional development banks, United Nations System, private sector, and other relevant stakeholders such as youth organizations, representatives from marginalized communities.

Working Group recommends a minimum of two and a maximum of three Inter-regional Meetings, to be held back-to-back with RPMs
About WTDC Regional Initiatives

**Regional initiatives** (RIs)
- adopted in World Telecommunications Development Conferences (WTDC);
- RIs were introduced at the fifth WTDC, held in 2010 in Hyderabad;
- they address specific ICT priority areas, through partnerships and resource mobilization to implement small-, medium- and large-scale projects;
- The current cycle of RIs adopted at WTDC-17 covers the implementation period of 2018 to 2021.
- Under each RI, projects are developed and implemented to meet the region's needs.

**ITU supports implementation** of RIs within its dual responsibility as:
- a United Nations specialized agency
- and executing agency for implementing projects under the UN development system

ITU can also support to **mobilize financial resources**
- To provide seed funding via ICT-DF funds and Council allocated funds to support implementation of WTD-17 RIs (RI funds)
- to facilitate seeking funding arrangements from third parties (resource mobilization)
ITU Projects

Delivering impactful products and services

Impact
Mechanism to implement WTDC Outcomes in Member States with sound management and accountability for impact (based on Results Based Management principles).

Technical assistance
ITU projects are a mechanism to provide meaningful assistance and expertise to ITU Member States in all areas adopted as Thematic Priority and Regional Priority by WTDC through international cooperation and stakeholder partnerships.
Financing Mechanisms for Projects

- **Funds in Trust** (from partner or 3rd party/donor) to support own projects or 3rd party projects
- **Voluntary Contribution** (from partner or 3rd party/donor) to finance either specific or unmarked projects
- **ITU ICT Development Fund (ICT-DF)**
- **Regular Budget (Operational Plan)**

ITU is not a funding entity, but a specialized agency of the UN and executing agency.

Scope and scale of projects depend on the capacity of beneficiaries and partners to mobilize financial support.
Resources Mobilized in 2011–2021 (per year)
ITU projects cover the full range of ITU expertise in digital development

Distribution of projects per BDT Thematic Areas

- Capacity Development: 39%
- Cybersecurity: 16%
- Digital ecosystem: 11%
- Digital inclusion: 7%
- Digital services: 6%
- Emergency telecommunications: 3%
- Environment: 3%
- ICT statistics: 3%
- Network infrastructure & management: 2%
- Policy and regulation: 2%
- Regional / Ad-hoc assistance: 1%
- Regional / RDFs: 1%
Current ITU Project portfolio by Region

**Ongoing Projects**

- Africa
- Arab States
- Asia & Pacific
- CIS countries
- Europe
- The Americas
- World or Multi-Regional

![Bar chart showing number of ongoing projects by region](chart.png)

- Regional Initiative Projects
- Other Projects
### Overview of WTDC-17

## Regional Initiatives for ASP

<table>
<thead>
<tr>
<th>RI</th>
<th>Short name</th>
<th>Regional Initiative</th>
</tr>
</thead>
<tbody>
<tr>
<td>ASP1</td>
<td>LDCs, SIDS and LLDCs</td>
<td>Addressing special needs of least-developed countries, small island developing states, including Pacific island countries, and landlocked-developing countries</td>
</tr>
<tr>
<td>ASP2</td>
<td>E-services and Digital Inclusion</td>
<td>Harnessing ICTs to support the digital economy and an inclusive digital society</td>
</tr>
<tr>
<td>ASP3</td>
<td>Network and digital infrastructure</td>
<td>Fostering development of infrastructure to enhance digital connectivity</td>
</tr>
<tr>
<td>ASP4</td>
<td>Policy and Regulation</td>
<td>Enabling policy and regulatory environments</td>
</tr>
<tr>
<td>ASP5</td>
<td>Cybersecurity</td>
<td>Contributing to a secure and resilient environment</td>
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</table>
In 2021, BDT established a **Projects Board** whose responsibilities include:

- Assessing progress or lack of it on project implementation
- Reviewing newly proposed projects before they are launched
- Providing guidance on challenging situations where there are issues
- Providing oversight to ensure balanced implementation of Regional Initiatives
- Reviewing reports on closure of projects with the aim of ensuring that ITU procedures and rules are followed and that Member States are satisfied by the results
Questions