ITU-APT Foundation of India
Introduction to WRC-19

Bharat Bhatia
President, ITU-APT foundation of India
Head of International Spectrum team , Motorola Solutions
Chairman,   APT AWG Task Group on PPDR
Chairman, ITU-R WP5D SWG on PPDR

What is WRC-World Radio Conference

- ✓ **WRCs are organized by the International Telecommunications Union (ITU)**

- ✓ **Held every 4-5 years, 3-4 weeks, attended by over 3000 delegates**

- ✓ It is job of WRC to review and revise the Radio Regulations, the international treaty governing the use of the radio-frequency spectrum and satellite orbits

The ITU
(International Telecommunication Union)

ITU was Founded in 1865 is an international organisation , an organ of the UNO, within which governments and the private sector coordinate global telecommunication networks and services"

Radiocommunication Sector
(ITU-R)
(*secretariat BR*)
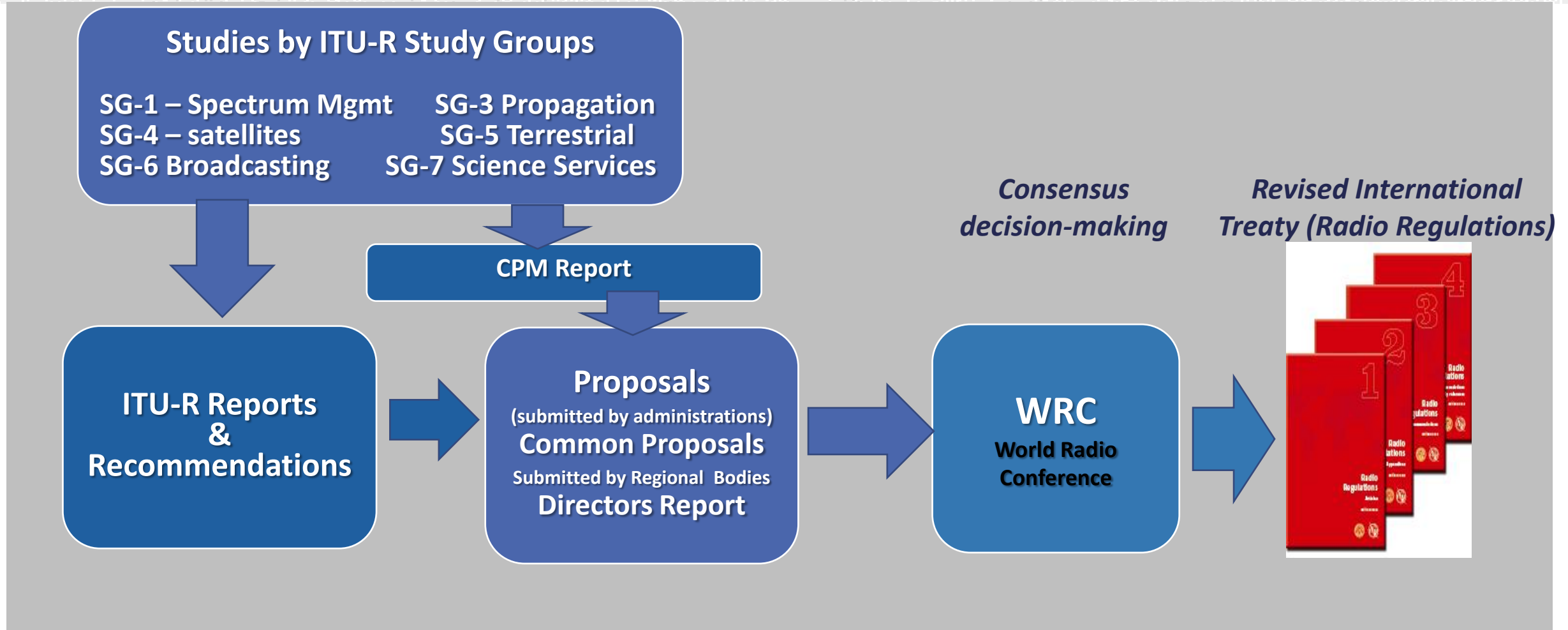Standardization and global spectrum management

Telecommunication Standardisation Sector
(ITU-T) (*secretariat TSB*)
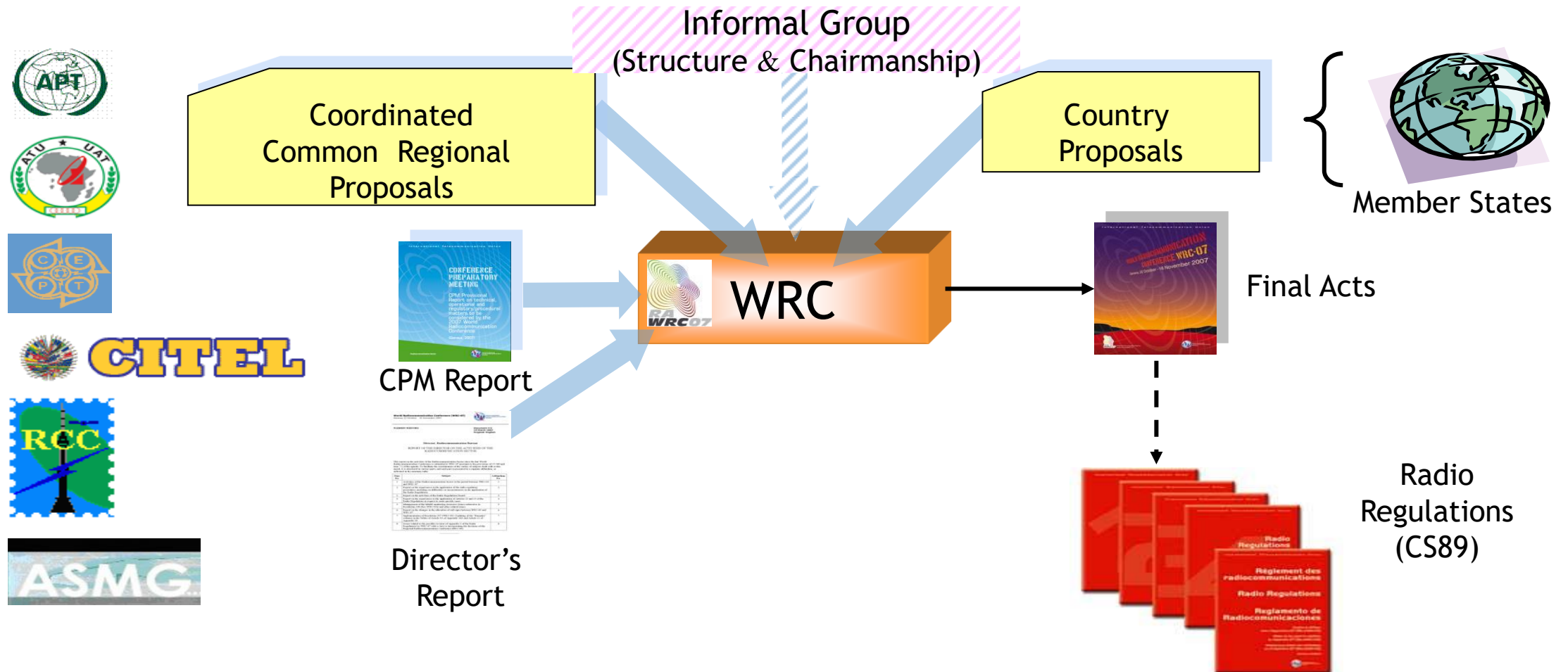Network and service aspects

Telecommunication Development Sector (ITU-D)
(*secretariat BDT*)
Assisting implementation and operation of telecommunications in developing countries

General Secretariat

ITU - World Radio Conferences Process

Studies by ITU-R Study Groups

SG-1 – Spectrum Mgmt   SG-3 Propagation
SG-4 – satellites   SG-5 Terrestrial
SG-6 Broadcasting   SG-7 Science Services

CPM Report

ITU-R Reports & Recommendations

Proposals
(submitted by administrations)
Common Proposals
Submitted by Regional Bodies
Directors Report

WRC
World Radio Conference

Consensus decision-making

Revised International Treaty (Radio Regulations)

Importance of Regional bodies in WRC Process
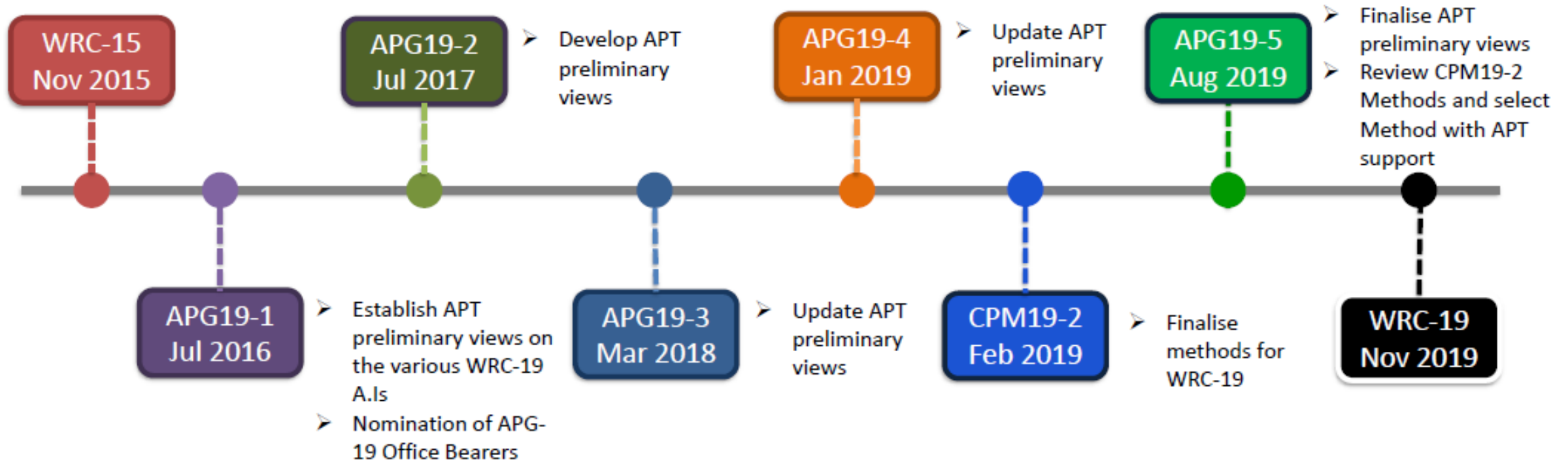

ITU-APT FOUNDATION OF INDIA

World Radio Conference 2019 (WRC-19)

- ✓ *WRC-19 will be held at Sharm-al-Sheikh In Egypt from October 28 2019 to November 22-2019*

- ✓ *It is expected to be attended by over 3500 regulators, Ministers and Wireless Industry leaders from around the world*

- ✓ *We expect a strong India participation – Estimated at over 20-30 delegates from Industry and government*

- ✓ *The final Preparatory meeting for the conference will be held in Geneva, Switzerland from 18-28 February 2019 which will finalize the CPM report.*

- ✓ *The Asia pacific Telecommunity will hold it's 4th Preparatory meeting in Busan Korea from 7th to 12th January 2019 to update APT preliminary views and also propose changes to the Draft CPM report.*

WRC-19 preparation milestones

WRC-15	**Developed agenda for WRC-19 Resolution 809 (WRC-15)**
CPM-19-1	**1st Session of Conference Preparatory Meeting held on 30 Nov. – 01 Dec. 2015**
ITU-R studies	**ITU-R studies March 2016 – July 2018**
CPM19-2	**2nd Session Conference Preparatory Meeting**
Proposals to WRC	**Final meetings of regional groups, preparation of proposals (country and common) to WRC-19**
WRC-19	**RA-19: 21-25 Oct. 2019; WRC-19: 28 Oct. to 22 Nov. 2019, in Egypt or Geneva**

We are here

WRC-19 Preparatory Activities in Asia Pacific by APT

WRC-15 Nov 2015

APG19-1 Jul 2016
➢ Establish APT preliminary views on the various WRC-19 A.Is
➢ Nomination of APG-19 Office Bearers

APG19-2 Jul 2017
➢ Develop APT preliminary views

APG19-3 Mar 2018
➢ Update APT preliminary views

APG19-4 Jan 2019
➢ Update APT preliminary views

CPM19-2 Feb 2019
➢ Finalise methods for WRC-19

APG19-5 Aug 2019
➢ Finalise APT preliminary views
➢ Review CPM19-2 Methods and select Method with APT support

WRC-19 Nov 2019

KEY ISSUES FOR WRC-19

1. Spectrum for 5G in mm wave bands above 24 GHz band

2. Spectrum for Earth stations in Motion on board ships, aircrafts, trains, etc

3. Global Aeronautical and Maritime Distress and Safety Systems

4. Additional 5 GHz spectrum for WiFi

5. Spectrum for Met satellite and Earth exploration-satellite services in 400 MHz

6. Maritime mobile-satellite service allocations for VHF data exchange systems;

7. Spectrum needs for telemetry, tracking and command in the space operation

8. Spectrum requirements for high-altitude platform stations

Structure of the CPM report to WRC-19

CPM Report Includes summary of studies and methods to resolve each of the 30 agenda items

CPM Report is structured in six chapters as below

Chapters of the draft CPM Report	WRC-19 Agenda items
1. Land mobile and fixed services	1.11, 1.12, 1.14, 1.15
2. Broadband applications in the mobile service	1.13, 1.16, 9.1 (9.1.1, 9.1.5, 9.1.8)
3. Satellite services	1.4, 1.5, 1.6, 7, 9.1 (9.1.2, 9.1.3, 9.1.9)
4. Science services	1.2, 1.3, 1.7
5. Maritime, aeronautical and amateur services	1.1, 1.8, 1.9.1, 1.9.2, 1.10, 9.1 (9.1.4)
6. General issues	2, 4, 9.1 (9.1.6, 9.1.7), 10

THANK YOU

ITU APT FOUNDATION OF INDIA

WWW. ITU-APT.ORG

BHARAT BHATIA , PRESIDENT

+91 981 017 3737

BHARAT.BHATIA@itu-apt.org