IAFI Preparatory activities for ITU WRC-27 Shanghai 2027

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Vice Chairman, Asia Pacific, Wireless World Research Forum (WWRF)
Chairman, ITU-R WP5D WG GA on 6G
Chairman, Editorial Committee, APG 27

IAFI
ITU-APT Foundation of India
ITU's Association in India

About IAFI

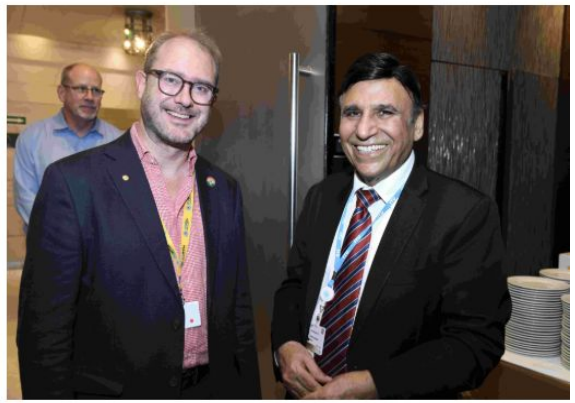
- The ITU-APT Foundation of India (IAFI) is a Registered non-profit, non-political industry Foundation that represents the interests of the telecommunications and ICT sector in the Asia Pacific Region.

- The organization serves as a vital platform for industry stakeholders, including operators, manufacturers, researchers, and government entities, to collaborate and engage among themselves and with international telecommunications organizations such as ITU, APT, WWRF, FCC, CEPT, etc.

- IAFI's members benefit from the organization's advocacy efforts, access to ITU and APT meetings, conferences and events, access to exclusive industry insights, participation in global events, and opportunities to engage with international experts and policymakers.

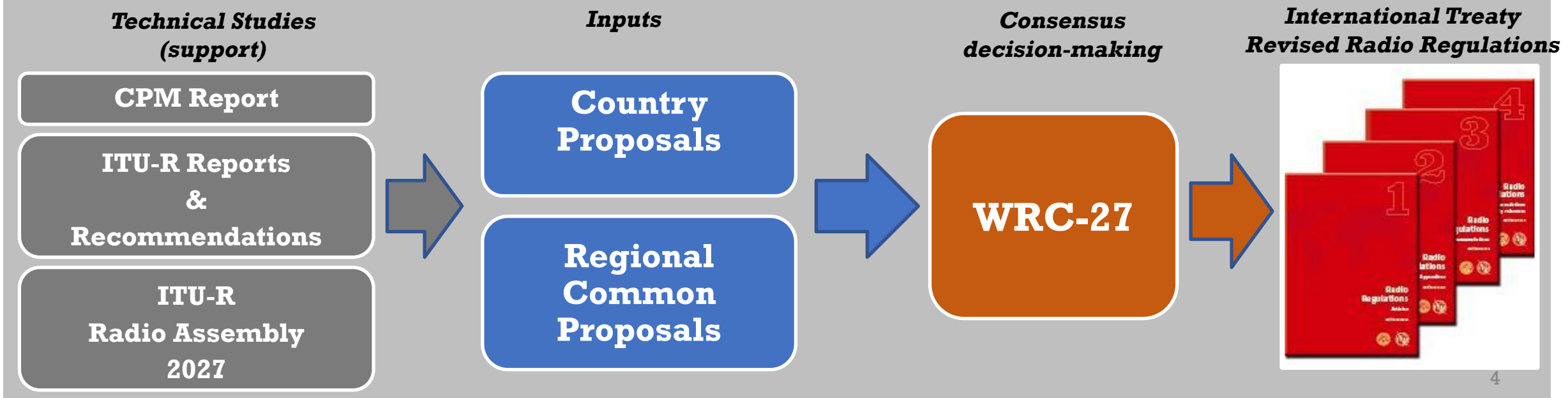
Our Vision and Mission	**Foster sustainable growth of the telecommunications and ICT sector by facilitating international cooperation, promoting best practices, and advocating for favourable policies and regulations.**			
	Advocacy and Policy Development:	**International Collaboration**	**Standards and Best Practices**	**Capacity Building and Training**
Activities	**Contributing to ITU and APT Studies, conferences and activities**	**Organising events that support our vision and Mission**	**Collaborating with stakeholders including members, governments, industry experts**	**Promoting Research and Development**

Some Glimpses of our events



ITU WRC Process is complex, and regional organizations play a major role

High level process diagram of WRCs:



It is important for India to actively participate in the process and support it

WRC-23

163
Member States represented

3985
Delegates

22%
Women

151
Member States Signed the Final Acts

ITUWRC
DUBAI2023
20.11.-15.12.23

Regional Telecommunication Organizations

Asia-Pacific Telecommunity (APT)

- http://www.apt.int/APTAPG
- Chair, APG-27:
  Mr. Nobuyuki Kawai, Japan,
  no-kawai@kddi.com
  aptapg@apt.int
- APT Preliminary Views on WRC-27 agenda items (as a result of APG27-2)

Arab Spectrum Management Group (ASMG)

- www.asmg.bh
- Chair, ASMG:
  Mr. Tariq AL AWADHI, UAE,
  tariq.alawadhi@tdra.gov.ae
- ASMG Work for WRC-27 Preparations (version of 30 October 2025)

African Telecommunications Union (ATU)

- http://www.atuuat.africa
- Secretary General – African Telecommunications Union:
  Mr. John OMO
  sg@atuuat.africa

European Conference of Postal and Telecommunications Administrations (CEPT)

- http://www.cept.org/ecc/groups/ecc/cpg
- Chair, CPG:
  Mr. Stephen Talbot, United Kingdom,
  stephen.talbot@ofcom.org.uk
- CPG Chair - Presentation for Regional Groups June 2025 (version of 9 July 2025)

Inter-American Telecommunication Commission (CITEL)

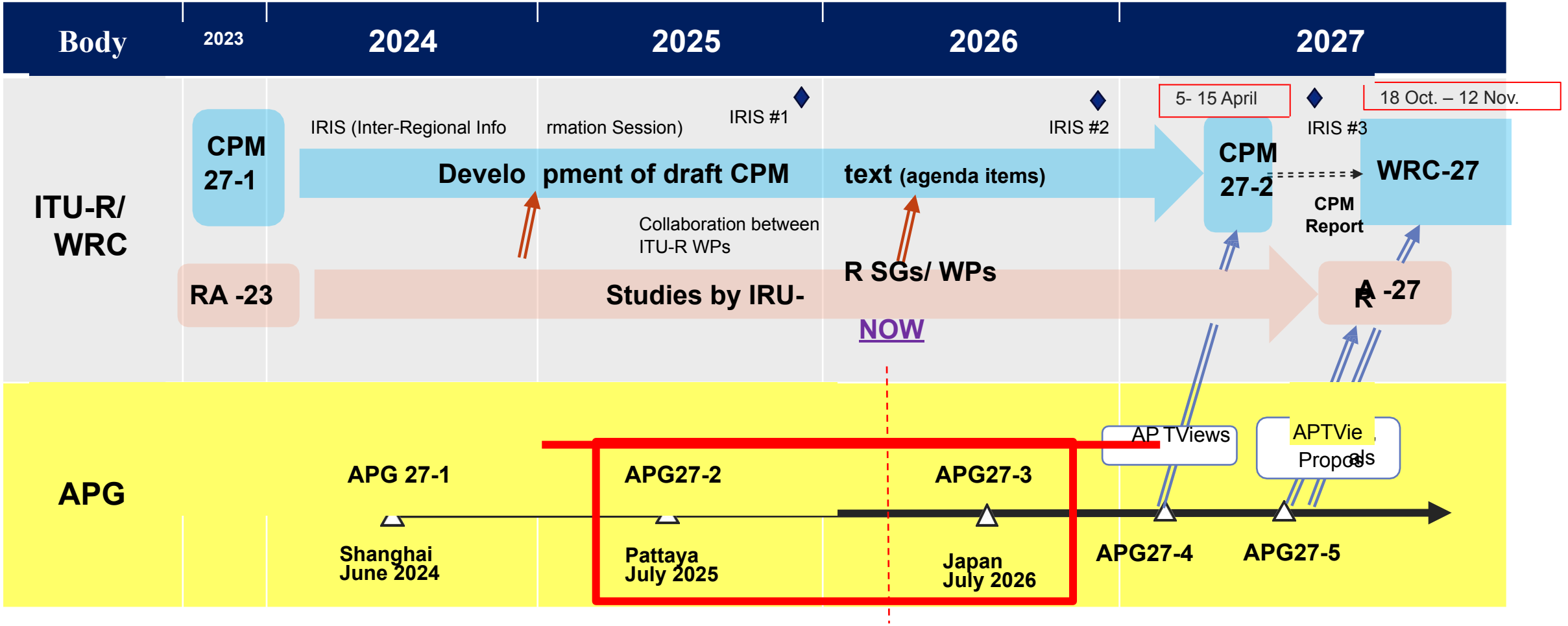
- http://www.citel.oas.org/en/Pages/PCCII
- Chair of the PCC.II Working Group relative to the CITEL's Preparation for WRCs:
  Mr. Ricardo Martinez, Colombia (Republic of)
  ricardo.martinez@ane.gov.co
- Status of the preparation for WRC-27 after the 46th meeting of PCC.II (version of 10 November 2025)

Regional Commonwealth in the Field of Communications (RCC)

- http://en.rcc.org.ru
- Chair, RCC WG WRC-27/RA-27 *:
  Mr. Sergey Pastukh, Russian Federation
  serg-past@mail.ru; pastuhsy@nic-t.ru
- Draft preliminary position of the RCC Administrations on the WRC-27 agenda items (version of 3 October 2025)

Major milestones in Asia towards WRC-27

- Each agenda item is studied by relevant ITU-R Working Parties (WPs) between 2024 and 2027.
- Based on the studies CPM Report is developed.
- Preparation by regional organization (including APT) is conducted.



RA: Radiocommunication Assembly CPM: Conference Preparatory Meeting SG: Study Group WP: Working Party

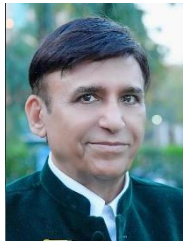
APG-27 Structure and Management Team

Chair, APG-27
Nobuyuki Kawai (Japan)

Vice-Chair, APG-27
Christopher Worley (Australia)

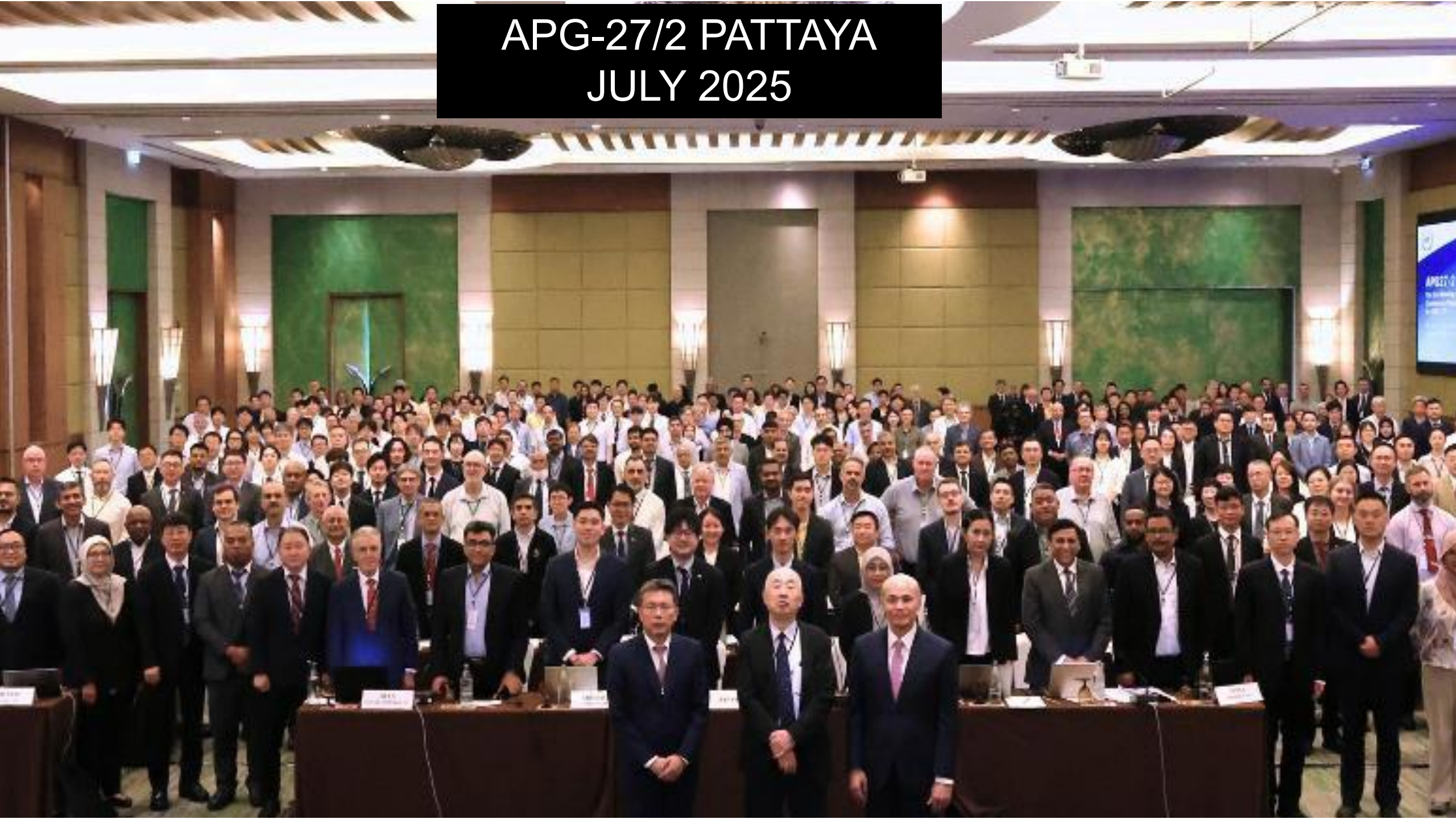
Vice-Chair, APG-27
Ali Reza Darvishi (Islamic Republic of Iran)

Special Adviser, APG-27
Zhao Zheng (People's Republic of China)



Chair, Editorial Committee, APG-27
Bharat Bhatia (India)

APG-27/2 PATTAYA
JULY 2025



Agenda Items of WRC-27

No.	Agenda items
1.1	Studies on the use of the frequency bands 47.2-50.2 GHz ↑and 50.4-51.4 GHz↑, or parts thereof, by aeronautical and maritime earth stations in motion in the FSS
1.2	Studies on possible revisions of sharing conditions in the frequency band 13.75-14 GHz to allow the use of uplink FSS earth stations with smaller antenna sizes
1.3	Studies relating to the use of the frequency band 51.4-52.4 GHz ↑to enable its use by gateway earth stations transmitting to non-GSO systems in the FSS
1.4	Possible new primary allocation to the FSS↓ in the frequency band 17.3-17.7 GHz and possible new primary allocation to the BSS↓ in the frequency band 17.3-17.8 GHz in Region 3, and consideration of equivalent power flux-density limits to be applied in Regions 1 and 3 to non-GSO satellite systems in the FSS ↓in the frequency band 17.3-17.7 GHz
1.5	Studies on development of regulatory measures, and implementability thereof, to limit the unauthorized operations of non-GSO earth stations in the FSS and MSS and associated issues related to the service area of non-GSO FSS and MSS satellite systems
1.6	Consideration of technical and regulatory measures for FSS satellite networks/systems in the frequency bands 37.5-42.5 GHz↓, 42.5-43.5 GHz ↑ , 47.2-50.2 GHz ↑ and 50.4-51.4 GHz ↑ for equitable access to these frequency bands
1.7	Sharing and compatibility studies and development of technical conditions for the use of IMT in the frequency bands 4 400-4 800 MHz, 7 125-8 400 MHz (or parts thereof), and 14.8-15.35 GHz for the terrestrial component of IMT
1.8	Studies on possible new additional allocations to the RLS on a primary basis in the frequency range 231.5-275 GHz, and possible new identifications for RLS applications in frequency bands within the frequency range 275-700 GHz
1.9	Consideration of appropriate regulatory actions to update Appendix 26 in support of modernization of high-frequency spectrum use in the aeronautical mobile (OR) service
1.10	Power flux-density and equivalent isotropically radiated power limits for inclusion in Article 21 for the FSS, MSS and BSS to protect the fixed and mobile services in the frequency bands 71-76 GHz and 81-86 GHz
1.11	Study of technical and operational issues and regulatory provisions for space-to-space transmissions in the frequency bands 1 518-1 544 MHz, 1 545-1 559 MHz, 1 610-1 645.5 MHz, 1 646.5-1 660 MHz, 1 670-1 675 MHz and 2 483.5-2 500 MHz
1.12	Studies on potential new allocations to, and regulatory actions for, the mobile-satellite service in the frequency bands 1 427-1 432 MHz↓, 1 645.5-1 646.5 MHz ↓ ↑, 1 880-1 920 MHz ↓ ↑and 2 010-2 025 MHz ↓ ↑ required for the future development of low-data-rate non-geostationary MSS system
1.13	Studies on possible new allocations to the MSS for direct connectivity between space stations and IMT user equipment to complement terrestrial IMT network coverage
1.14	Studies on possible new frequency allocations to the MSS in the frequency bands 2 010-2 025 MHz ↑and 2 160-2 170 MHz ↓in Regions 1 and 3 and 2 120-2 160 MHz ↓ in all Regions
1.15	Studies on frequency-related matters, including possible new or modified SRS (space-to-space) allocations, for future development of communications on the lunar surface and between lunar orbit and the lunar surface
1.16	Studies of technical and regulatory provisions necessary to protect RA operating in specific Radio Quiet Zones and, in RA primary allocated frequency bands globally, from aggregate radio-frequency interference caused by systems in the non-GSO
1.17	Consideration of regulatory provisions and potential primary allocations to the meteorological aids service (space weather) to accommodate receive-only space weather sensor applications in the Radio Regulations
1.18	Studies on compatibility between the EESS (passive), the RA in certain bands above 76 GHz, and active services in adjacent and nearby frequency bands
1.19	Studies on possible allocations to EESS (passive) in the bands 4 200-4 400 MHz and 8 400-8 500 MHz
7	Implementation of Resolution 86 (Rev. Marrakesh, 2002) of the Plenipotentiary Conference on advance publication, coordination, notification and recording procedures for frequency assignments pertaining to satellite networks
9	Report of the Director of the Radiocommunication Bureau
10	the agenda for the next world radiocommunication conference, and items for the preliminary agenda of future conferences

Agenda items of interest to India

Category	Agenda item	Description
FSS/BSS	1.2 (Res. 129)	Possible revisions of sharing conditions in 13.75-14 GHz to allow the use of uplink FSS earth stations with smaller antenna sizes
	1.3 (Res. 726)	NGSO Gateway Earth Stations in the frequency band 51.4-52.4 GHz
	1.4 (Res. 726)	Possible new primary allocation to FSS↓ in 17.3-17.7 GHz and a possible new primary allocation to BSS↓ in 17.3-17.8 GHz in Region 3
	1.5 (Res. 14)	Regulatory measures, and implementability to limit the unauthorized operations of non-GSO earth stations in FSS/MSS and issues related to the service area of non-GSO systems in FSS /MSS
Fixed/Mobile/RLS	1.7 (Res. 256)	Sharing and compatibility and develop technical conditions for the use of IMT in 4 400-4 800 MHz, 7 125-8 400 MHz (or parts thereof), and 14.8-15.35 GHz
MSS	1.13 (Res. 253)	Possible new allocations to MSS for direct connectivity between space stations and IMT user equipment to complement terrestrial IMT network coverage

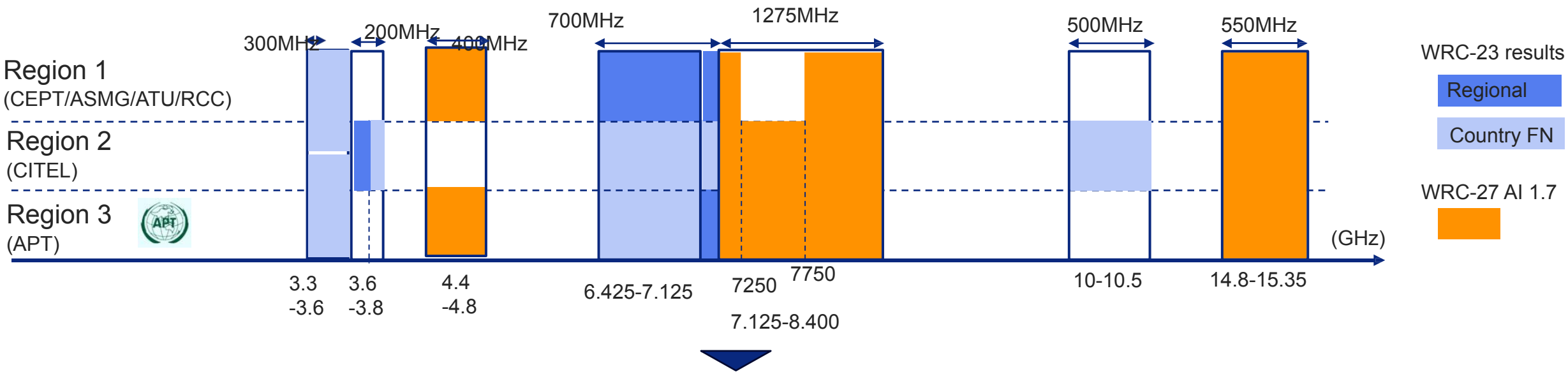
Reference: WRC-27-IRIS-25/10 “Preparation of the APT for WRC-27: APT Conference Preparatory Group for WRC-27 (APG-27) (short version)”

AI 1.7: Study for additional IMT Identification

※IMT (International Mobile Telecommunications)

Study for additional IMT identification in 4 GHz, 7-8 GHz and 15 GHz bands

Candidate bands with WRC-23 results



- Candidate frequency bands (4,400 – 4,800 MHz, 7,125 – 8,400 MHz and 14.8 – 15.35 GHz) are useful mid frequency bands but challenges in co-existence with other incumbent services
- Extensive discussions are expected in ITU-R and regional groups

THANK YOU

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