

# About IAFI

- ITU-APT Foundation of India (IAFI) is a non-profit, non-political registered society based in India
- IAFI is a nonpartisan Foundation and does not identify with any Industry sector or group. We support all telecom and IT sectors : 4G, 5G, GSO –NGSO Satellites, Wi-Fi, Broadcasting, Aviation, etc.
- IAFI is recognized by the ITU as an international/regional Telecommunications organization and granted sector Member of all the three ITU Sectors - ITU-R, ITU-T and ITU-D.
- We are working for the last 18 years with the prime objective of encouraging involvement of professionals, corporate, public/private sector industries, R&D organizations, academic institutions, and such other agencies in the activities of ITU and APT
- IAFI was founded in 2003 by a group of Telecom professional, with Padamshree P S Saran, retired secretary DOT as the first chairman. Our members include many stalwarts of the telecom sector including former telecom secretaries, members, advisors and DDGs of the DOT and Telecom Commission, former Wireless Advisors and other DOT and WPC officers. We also have many corporate members from India and other countries including R&D organizations, telecom operators, manufacturers and technology provider

# IAFI work is well recognized in the Media



ETTelecom.com  
From The Economic Times

5th edition THE 5G CONGRESS 2022  
5G: THE NEXT BIG DISRUPTION  
Conference Awards

News Features ETT SPECIAL Slideshows Tele-Bytes Live Sessions

3G/4G SatCom Digital India Infrastructure Devices Jobs MVAS/Apps Tele-Stats

Telecom News / Latest Telecom News / Industry

## IAFI seeks to merge captive license to support Atmanirbhar Bharat

Many developed countries have already licensed private captive 4G/5G networks. These include the USA, UK, Germany, Australia, Japan, and others.

ETTelecom @ETTelecom

IAFI proposes early finalization of ITU recommendations on 4G/5G for automated vehicles

#ITU #5GNetworks #Industry #ITUAPTFoundation #BharatBhatia #ItuAptFoundationOfIndia #InternationalTelecommunicationUnion #5G #5GAutomatedVehicles #5GTechnology

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## IAFI asks TRAI to keep 5G spectrum price reasonable

"In the previously failed auctions of 700 MHz, the average reserve price for the auction in 700 MHz in Feb 2021 was about \$1.89 per MHz per p (adjusted for PPP) which is 34 times higher than that set International (\$0.05) and is also higher than the mean winning bid price witnessed worldwide (\$0.54)" IAFI stressed in its submission.

Ashutosh Kumar • ETTelecom • January 10, 2022, 17:03 IST

5G

## IAFI hosts 2nd international e-workshop on ITU 6G vision

November 24, 2021

ETTelecom २०२१ सेप्टेम्बर २४

The ITU-APT Foundation of India (IAFI) has sought to delicense the spectrum in V band (60 GHz range) to bridge the digital divide by promoting Prime Minister's Wi-Fi Access Network Interface (PM-WANI) initiative.

ETTelecom.com  
From The Economic Times

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3G/4G SatCom Digital India Infrastructure Devices Jobs MVAS/Apps Tele-Stats Policy Industry Smartphone More

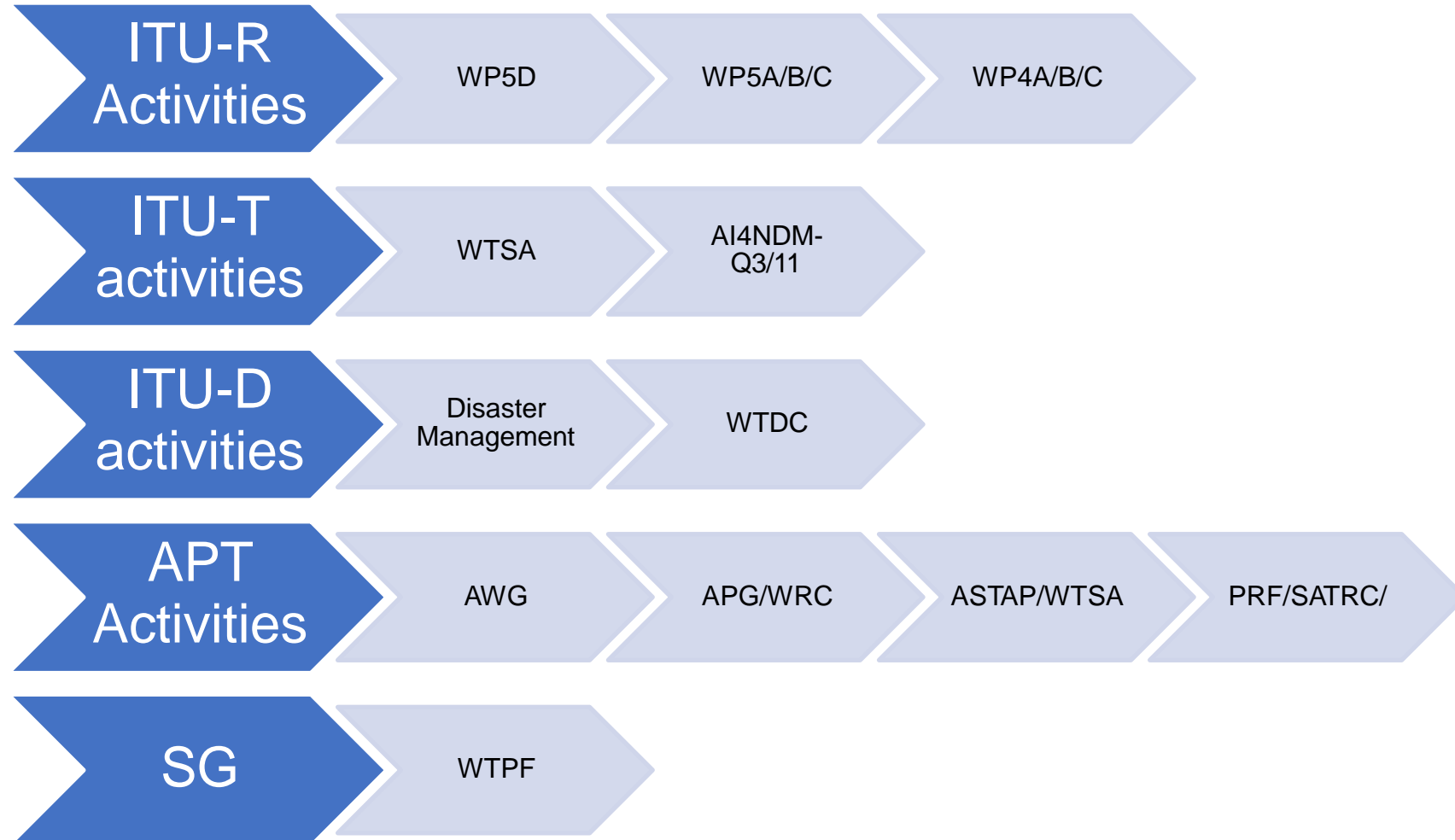
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## ETTelecom Roundtables: Airtel, Vodafone Idea, COAI, IAFI discuss policy roadmap for sectoral health

In a panel discussion on 'Enabling Policy Roadmap for the Sectoral Health' at ETTelecom's Digital Telco Summit, Rahul Vatts, Chief Regulatory Officer, Bharti Airtel, P Balaji, Chief Regulatory and Corporate Affairs Officer, Vodafone Idea Limited, Lt. Gen. S. P. Kochhar, Director General, COAI, and Bharat Bhatia, President, ITU-APT Foundation of India advocate overhauling of the entire tax structure on India's telecom sector and suggest reducing legacy litigation cases out of court, amongst others. Sonica Bajaj, Partner, KPMG in India moderated the session.

ETTelecom • December 28, 2021, 13:30 IST

# IAFI work in ITU and APT Activities



# IAFI has submitted 11 contributions to ITU-R WP5D in 2021

1. Recommendation ITU-R M.1036 - Frequency arrangements for implementation of the terrestrial component of International Mobile Telecommunications (IMT) in the bands identified for IMT in the Radio Regulations (WP5D/815)
2. The use of the terrestrial component of IMT for cellular-vehicle-to-everything application (WP5D/816) draft new Report ITU-R M.[IMT.C-V2X] -
3. draft new Report ITU-R M.[IMT.INDUSTRY] - Applications of IMT for [specific] industrial and enterprise usages (Wp5D/817)
4. Report on critical applications of IMT for industrial and enterprise users. (WP5D/ 639)
5. Proposed new Recommendation on vision for International Mobile Telecommunications (IMT) for 2030 and beyond (WP5D/ 638)
6. The use of terrestrial component of IMT for cellular-vehicle-to-everything application (Question ITU-R 262/5) (WP5D/ 637)
7. New Report for MM wave bands in Recommendation M.1036-(WP5D/ 636)
8. Next Steps on RR No.21.5 (WP5D/ 474)
9. Draft revision of Report M.2291 on PPDR (WP5D/ 473)
10. Proposed modifications to Recommendation M.1036 (WP5D/ 472)
11. Adjacent band compatibility studies of IMT systems in the band 1492-1 518 MHz (WP5D/ 471)

**IAFI Main areas in WP5D: Frequency planning for 4G/5G, Automated driving, Private 5G for Industries, 6G studies and Vision, WRC-23 Preparations**

# IAFI has submitted 7 contributions to ITU-R WP5A

- Proposal to update Report ITU-R M.2377 - Radiocommunication objectives and requirements for Public Protection and Disaster Relief (Doc. 448)
- Compendium of ITU's work and future ITU-R work on Emergency Telecommunications (Doc. 447)
- Updates to Working document towards a preliminary draft new Report ITU-R M.[CAV] (Doc. 446)
- WRC-23 agenda item 9.1, topic c) - Study the use of International Mobile Telecommunication systems for fixed wireless broadband in the frequency bands allocated to the Fixed Service on a primary basis, in accordance with Resolution 175 (WRC-19) (Doc. 445)
- Proposed changes to the working document towards a preliminary draft new Report ITU-R M.[UCS] - Utility communication systems (Doc. 274)
- Studies under agenda item 9.1 topic C) (Doc. 273)
- RSTT study Question (Doc. 272)

**IAFI Main areas in WP5ABC: Wi-Fi, Fixed Wireless Broadband, Public safety and disaster communications, UAVs, HAPS, Railway comms, Intelligent Transport Systems (ITS), Maritime Distress and Safety System**

# IAFI work relating to WP 4A/4B/4C

1. Earth stations on vehicles, ships and aircraft (E-SIM) guidelines approved in Ku and Ka bands for GSO with power limits to protect 5G- Next WRC to consider similar guidelines for NGSO.
2. Non-Geostationary Satellites – Regulatory procedures established 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 orbits.
3. Broadcasting-satellite service (BSS) – Protection of frequency assignments, providing a priority mechanism for developing countries to regain access to spectrum orbit resources.
4. 2.5 GHz MSS interference
5. WRC Agenda Items

# IAFI work with the APT :

## 4 contributions to AWG and 6 docs for WRC-23 submitted to WPC

- Response to APT Report on information of mobile operators' frequencies, technologies and license durations in Asia Pacific countries [AWG-27/INP-63](#)
- Further work on a draft new Report on sharing and compatibility studies between IMT in the band 1492 – 1518 MHz and MSS systems in the band above 1518 MHz in the Asia Pacific region [AWG-27/INP-62](#)
- Working document towards a preliminary draft new APT Report on current status and future plan of implementation and development of IMT-2020 (5G) in Asia-Pacific region [AWG-27/INP-61](#)
- Further updates to working document towards a preliminary draft new APT Report on emerging critical applications of IMT for industrial, societal and enterprise users [AWG-27/INP-60](#)

IAFI is currently working on 6 Topics which will be completed in March 2022

1. Developments in industrial IoT applications using satellite technologies
2. APT Report on Emerging Critical Applications of IMT for Industrial, Societal and Enterprise Users
3. Current status and future plan on regulations and usage of HAPS in the fixed service in APT countries
4. The use of cellular networks for unmanned aircraft
5. KA-BAND and satellite systems for use in the Asia national frequency plans
6. Cellular based V2X for ITS applications in APT countries

# Key WRC-23 AGENDA items on which IAFI is working during 20-23 Study Period

- New Spectrum for IMT : Identify new bands and conditions for existing bands: 3 300-3 400 MHz, 3 600 3 800 MHz, 4 800-4 990 MHz, 6 425-7 025 MHz, 7 025-7 125 MHz and 10.0-10.5 GHz bands for 4G/5G
- Earth stations in motion (ESIM) – Conditions to be further defined for communications of ESIMs with non-geostationary space stations in the fixed-satellite service to provide reliable and high-bandwidth Internet services to aircraft, ships and land vehicles.
- High-altitude IMT base stations (HIBS) – The use of high-altitude platform stations as IMT base stations (HIBS) in the mobile service in certain frequency bands below 2.7 GHz already identified for IMT,
- Aeronautical mobile applications – Modernizing aeronautical HF radio, new non-safety aeronautical mobile applications for air-to-air, ground-to-air and air-to-ground communications of aircraft systems, and possible new allocations to the aeronautical mobile satellite service to support aeronautical VHF communications in the Earth-to-space and space-to-Earth directions.
- Global Maritime Distress and Safety System (GMDSS) – Improved communications and additional spectrum and satellite resources to enhance maritime capabilities in GMDSS, such as e-navigation.





# THANK YOU

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