

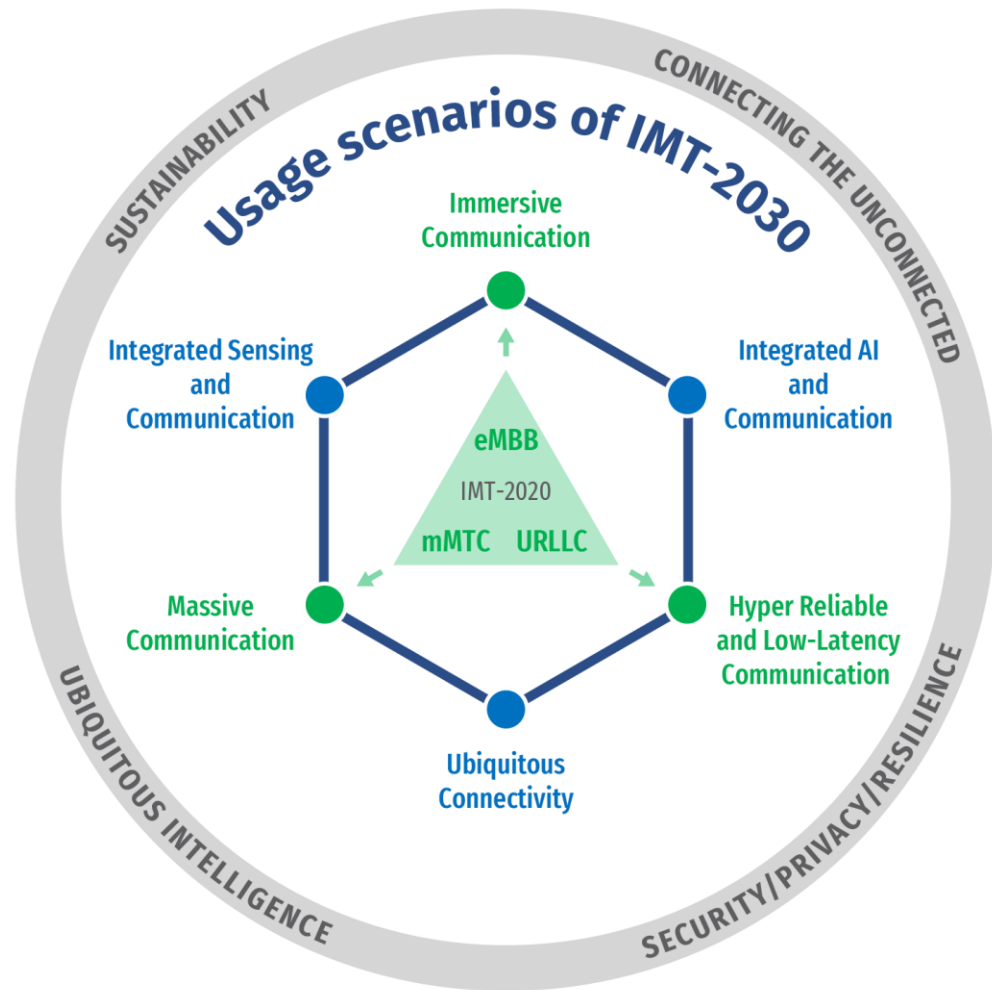


# User's demands in the era of AI and the path to 6G Services

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# Usage Scenarios in ITU 6G Framework

New Focus on Intelligence - Ubiquitous Intelligence is an overarching Goal



ITU developed 6G - IMT-2030 'vision' Framework' document. Took 2 years to develop from 2021 to 2023

**This "Framework" is now the global dominant and de-facto standard 6G reference point**

**6G Usage Scenarios - 6 groups**

**3 evolving from IMT-2020 (5G)**

- eMBB → **Immersive** Comms
- mMTC → **Massive** Comms
- URLLC → **HRLLC** (Hyper Reliable & Low-Latency Comms)

**3 New for IMT-2030 (6G)**

- **Integrated** AI & Comms
- **Ubiquitous** Connectivity
- **Integrated** Sensing & Comms

**ITU 'Framework & overall objectives of the future development of IMT for 2030 and beyond'**

30 September 2024

# Spectrum to meet the User Demands of Broadband in 6G era

## From WRC-23 to WRC-27

### Lower 6GHz (5925-6425 MHz) moving towards global recognition as a Wi-Fi band

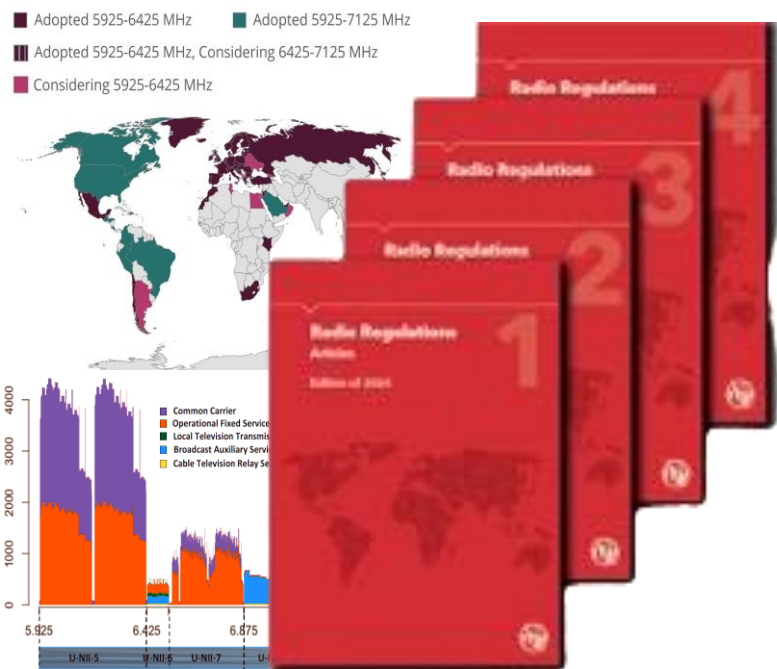
- 83 countries have already delicensed Lower 6GHz
- India is considering opening the Band for Wi-Fi
- AFC enabled outdoor options being studied in Many countries – New APT Report being developed

### Upper 6GHz (6425-7125MHz) (WRC-23 Agenda Item AI 1.2)

- US, Canada, Saudi and South Korea have opened u6GHz for WiFi
- China have allocated u6GHz to IMT for 5G/6G
- Continuing Lobbying from GSMA and operators for IMT allocation in many countries
- Europe – studying shared use between Wi-Fi and IMT

### 6G: New IMT bands in 4-15.35 GHz (WRC-27 AI 1.7)

- Studies in ITU promoted by US, JP, KR, India
- Likely to get some new bands at WRC-27
- Substantial IMT spectrum remains unutilised ( mostly in **mmWave** and also in some **mid bands**)





THANK  
YOU

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