|  |  |  |
| --- | --- | --- |
| A picture containing text, clipart  Description automatically generated | ASIA-PACIFIC TELECOMMUNITY |  |
| **The 30th Meeting of the APT Wireless Group**  **(AWG-30)** |  |
| 5 – 9 September 2022, Bangkok, Thailand | 9 September 2022 |

Source: AWG-30/OUT-27

**questionnaire ON FUTURE spectrum PLanning for advanced IMT coverage and capAcity improvements IN 2025 ~ 2030 in Asia Pacific region**

**1. Introduction**

At AWG-29 meeting, AWG started a new report on future spectrum planning for advanced IMT coverage and capacity improvements in 2025 ~2030 in Asia Pacific Region accounting for the service and technology trends. AWG invites APT Members to respond to this questionnaire to support the study.

**2. Objective of the Questionnaire**

To survey and study future spectrum plans for advanced IMT coverage and capacity improvements in 2025 ~ 2030.

**3. Rapporteur of the Questionnaire**

Joe Guan, GSMA Hong Kong

**4. Responsible Group**

WG-IMT/Sub-WG IMT Spectrum

**5. Meeting at which the Questionnaire was approved**

AWG-30 Document: AWG-30/OUT-27

**6. Target Responder**

APT Members

**7. Deadline for Responses**

APT Members are encouraged to respond at AWG-31, with possibilities to further add or update information at AWG-32.

**Questionnaire for Spectrum Planning 2025-2030**

**8. Questionnaire**

APT/AWG/Report-15 provides current IMT spectrum assignments in some APT countries. It is encouraged to revise the report for your country when answering this questionnaire.

Q1: Has your country deployed 5G services? Please provide the details on 5G services deployment in your country (e.g. in which stage).

Q2: Among frequency bands that are identified for IMT in ITU Radio Regulations, what are the reasons, challenges, and/or limitations for not having assigned some of them, if any, in your country?

Q3: In your spectrum planning roadmap, which frequency bands are being considered or will be considered to be used for IMT in the coming years?

Q4: In the 2025-2030 time frame, what is the expected dominant IMT technology (4G or 5G) in your country/territory? What are the expected market shares by technology in 2025 and 2030?[[1]](#footnote-1)

Q5: Has your country/territory defined specific mobile connectivity targets to be met in the 2025-2030 time frame? Have targets been defined within a national broadband plan? Such targets include (but not limited to):

* Speed/data-rate, throughput, latency
* Connectivity along transport routes (e.g. highways, high speed railways)
* Coverage (percentage of population and/or geographic area)
* Connectivity ratio (number of end users, or end user ratio)
* Number of base stations
* Affordability of devices
* Defined milestones to meet the above targets (within 2025-2030 time frame), if any

What is the current status in respect of meeting these targets?

Q6: What is the current and forecast data usage by 2030 for various types of human and non-human usage (Gbyte / month) using IMT technology in your country/territory?

Q7: What role do you expect will be played by FWA, regardless of technology, to help meeting the connectivity targets for fixed users (including residential households and enterprise users)?[[2]](#footnote-2)

Q8: What is the forecast availability of new base station site resources and the degree of increased densification (e.g., distance between sites) between 2025-2030 in your country/territory? Is there any plan to reuse the current site resources for future IMT deployment?

Q9: What IMT-2020 sectoral/industrial use cases are you expecting to unfold in your country/territory? Please select all that apply.

🗌 Agriculture

🗌 Drones

🗌 Education

🗌 Energy

🗌 Manufacturing

🗌 Media

🗌 Medical

🗌 Mining

🗌 Smart Cities

🗌 Transportation

🗌 Others, please specify

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Q10: Have there been any report indicating significantly increased high mobile (4G and 5G) traffic demand and/or network congestion in your country?

Q11: Has any timeline been set for the switch-off of any particular technology (e.g., 2G or 3G)? By taking the experience from past re-farming of spectrum, what are the plans to re-farm existing spectrum for IMT in your country/territory before 2030? Is there a roadmap or any plan to build one? Where possible, please state frequency band, total bandwidth available and anticipated timeline for re-farming.

\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. ITU-R Report on Future technology trends of terrestrial IMT systems towards 2030 and beyond. [↑](#footnote-ref-1)
2. *Wireless access* application in which the location of the *end-user termination* and the network access point to be connected to the end-user are fixed. <https://www.itu.int/dms_pubrec/itu-r/rec/f/R-REC-F.1399-0-199905-S!!PDF-E.pdf> [↑](#footnote-ref-2)