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GENERAL ASPECTS

ITU-APT Foundation of India (IAFI)

PROPOSED NEW ITU-R RECOMMENDATION ON FRAMEWORK AND OVERALL OBJECTIVES OF THE FUTURE DEVELOPMENT OF INTERNATIONAL MOBILE TELECOMMUNICATIONS (IMT) FOR 2030 AND BEYOND

1 Introduction

At the 37th meeting of WP 5D, a new subgroup, SWG Vison was created, which developed a draft work plan and the initial structure of a working document towards a preliminary draft new Recommendation on a future vision of IMT. From very preliminary initial discussions, the proposed new ITU-R Recommendation is expected to define the framework and overall objectives of the future development of International Mobile Telecommunications (IMT) for 2030 and beyond in the light of the roles that IMT could play to better serve the needs of the networked society, for both developed and developing countries, in the future.

2 Discussion

Since work on development of IMT-2020, which was based on vision Recommendation ITU-R M.2083, is now starting to conclude and many IMT-2020 systems both with standalone (SA) versions and non-standalone (NSA) versions have been implemented, extensive research on next generation of technology is being prioritized by academics and industries

It is noted that WP 5D is also working on a draft new Report on future technology trends towards 2030 and beyond to assess where the technology heading.

The proposed new ITU-R Recommendation on vision needs to identify a global vision of what is expected from the next generation of the wireless technology to meet future needs of the mankind. It is also essential to identify the gaps in the current generations of IMT so that the industry and research community could work on the necessary technical enablers to fulfil these gaps in the 2030 timeframe.

3 Proposal

This proposal provides some initial thoughts towards the proposed new ITU-R Recommendation on the framework and overall objectives of the future development of International Mobile Telecommunications (IMT) for 2030 and beyond:

- 1 It is expected that a comprehensive discussion of “IMT-2030 and Beyond” vision based on the review of IMT-2020 and its evolution, should include the challenges of coverage, capacity, latency, the user data rate and movement speed of mobile terminals. The vision of the next generation should also fully support the development of a Ubiquitous Intelligent Mobile Society.
- 2 The focus of “IMT-2030 and Beyond” should be on tackling societal challenges identified in UN Sustainable Development Goals (SDGs). The traditional focus in the first four generations of IMT should be refocussed towards the 17 SDGs, in particular to meet the needs of Industry, Innovation and Infrastructure.
- 3 Key to next generation of IMT lies in what the future heterogenous mobile broadband networks can offer to the society and the economy through the applications and services they support. It needs to target the changing global scenario on how we work and how we stay safe during the societal challenges such COVID-19 pandemic and global climate changes. We need to review if the IMT has really delivered on digital inclusion and connecting the rural and remote communities. broadband for all. We need to review if the IMT has really delivered on digital inclusion and connecting the rural and remote communities.
