

ATIS NEXT G ALLIANCE

REPLY LIAISON STATEMENT TO EXTERNAL ORGANIZATIONS, DEVELOPMENT OF “IMT VISION FOR 2030 AND BEYOND”

1 Introduction

The Next G Alliance thanks ITU-R WP 5D for its Liaison Statement dated 15 July 2021 inviting External Organizations to submit material to be included in the “IMT Vision for 2030 and beyond”. The Next G Alliance is a bold new initiative launched by the Alliance for Telecommunications Industry Solutions (ATIS) to advance North American wireless technology leadership over the next decade through private sector-led efforts. With a strong emphasis on technology commercialization, that encompasses the full lifecycle of research and development, manufacturing, standardization, and market readiness, the Next G Alliance brings together important stakeholders from North American industry, academia, and government to create a vision and roadmap for 6G (and beyond), from research to realization.

The Next G Alliance, as an External Organization, intends to provide ongoing contributions to the IMT Vision for 2030 and beyond as invited by ITU-R. In this response, the Next G Alliance provides input to the introduction as indicated in Attachment 1. This introduction may be updated as required in future contributions to ITU-R.

We also provide input to the overall schedule for IMT 2030 and beyond, which is found in Attachment 2. This timeline may be updated as required in future contributions to ITU-R.

The Next G Alliance welcomes comments on this proposal as ITU-R WP 5D moves forward to create the IMT-Vision for 2030 and beyond.

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ATTACHMENT 1

Source: Annex 3.7 to Document 5D/716-E

(This text is proposed for section 1.0 "Introduction")

1.0 Introduction

The vision for IMT toward 2030 and beyond should include the following essential objectives:

- Trust, Security, and Resilience should be advanced such that future systems are fully trusted by people, businesses, and governments to be resilient, secure, privacy preserving, safe, reliable, and available under all circumstances.
- Cost efficiency in all aspects of the system architecture including devices, wireless access, cell-site backhaul, overall distribution and energy consumption must be improved for delivering services in a variety of environment including urban, rural, and suburban, while also supporting increased data speeds and services that are expected for future systems.
- An enhanced Digital World Experience consisting of multi-sensory experiences to enable transformative forms of human collaboration as well as human-machine and machine-machine interactions will bring life-improving use cases and create new economic value creation.
- An AI-Native future system is needed to increase the robustness, performance, and efficiencies of the radio system against more diverse traffic types, ultra-dense deployment topologies, and more challenging spectrum situations.
- Distributed Cloud and Communications systems built on cloud and virtualization technologies, will lead to increased flexibility, performance, and resiliency for key use cases such as mixed reality, URLLC applications, interactive gaming, and multi-sensory applications.
- Energy Efficiency and the Environment must be at the forefront of decisions throughout the life cycle, toward a goal of achieving IMT carbon neutral by 2040. Advances will fundamentally change how electricity is used to support advanced communications and computer systems, while strengthening the relationship of information technology to the protection of our environment

ATTACHMENT 2

Source: Chapter 6 to Document 5D/716-E

Overview timeline on “IMT towards 2030 and Beyond”

