

New Era Starts with 6G Technology

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Wireless communication evolution from 1G to 6G, evolution of technology based on demand of the customer requirement. The continuous requirement increases the demand on technology. 6G is the successor of 5G technology. Sixth-generation (6G) operates the frequency of THz. Terahertz waves (THz), which are sub millimeter waves sitting between microwave and infrared light on the electromagnetic spectrum, have been used to achieve data rates greater than 100 Gbps. It incorporates various technologies machine-to-machine (M2M) communication. 6G communication supports 3D media technology optical wireless communication (OWC), 3D networking, unmanned aerial vehicles (UAV), and wireless power transfer and also supports Internet of Nano Things (IoNT). 6G will support technology like automated cars and smart-home networks, helping create seamless connectivity between the internet and everyday life. In development for 2030, 6G will support advancements in technology, such as virtual reality (VR), augmented reality (AR), metaverse, and artificial intelligence (AI). China successfully launched the world's first 6G satellite. The satellite uses Terahertz waves that could send data at speeds several times faster than 5G. 12 other Earth-observing satellites were aboard the rocket. The new era starts with reality connecting with surface rather than devices. 6G will become the first network which is connected to all three systems (space, earth and aerial) in a line.