

## There is a need for a New Radio evolution to improve spectral efficiency and superior network capacity

5G (NR)

### THE NEXT GENERATION OF MOBILE NETWORKS

Exponential growth in network traffic, new use cases, and shared spectrum resources have placed a tremendous pressure on MNOs to find the most efficient use of their allocated radio spectrum. There is a need for a New Radio evolution to improve spectral efficiency and superior network capacity. This evolution starts with 5G NR (New Radio) which is the new standard for 5G wireless technology capable of a much faster, efficient and scalable network. 5G New Radio technology is based on flexible OFDM waveforms and multiple access techniques, optimized for the various [5G services](#), applications, and deployment scenarios. [5G \(NR\)](#) features are defined in 3GPP standards with the first phase completion in Rel-15 and second phase in Rel-16 which will address identified use cases and deployment scenarios.

5G(NR) delivers high levels of capabilities to the network by increasing the spectrum efficiency, traffic capacity, throughput, reliability, number of connected devices and reducing end-to-end latency. This technology enables MNOs to unlock and support the diverse use cases such as Fixed Wireless Access (FWA), Enhanced Mobile broadband (eMBB), Massive Machine Type Communications (mMTC), and Ultra-Reliable Low Latency Communications (URLLC).