

5G NTN roadmap to 6G



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2024-25

Initial 5G NTN deployments

Proof of Concept deployment, showcasing the potential of NTNs in D2D coverage extensions, IoT and testing the deployment on existing satellites.

2025-26

Mass adoption of low data rate services over GEO

Launch of 5G NTN services over existing GEO satellites to support messaging services on D2D and IoT devices will be mainstream.

We expect a few LEO IoT constellation to start offering limited services

2026-27

Commercial deployment

First 5G NTN LEO constellation deployment.

This will support mobile broadband services direct to handset for voice, internet and messaging services, enabling coverage especially in under-served remote or rural areas, opening up new use-cases.

2028

Spectrum democratisation and mass adoption

Harmonising satellite and terrestrial spectrum will be the catalyst to enable global convergence, changing how we communicate globally.

The specifics will depend on advancements in technology, regulatory approvals, funding and market demand.

2029+

6G NTN

Envisaged seamless integration of terrestrial and satellite networks and support for higher frequencies, ultra-low latency, AI driven intelligent networks, will enable the provision of unparalleled data speeds, immersive experiences, and global connectivity.

