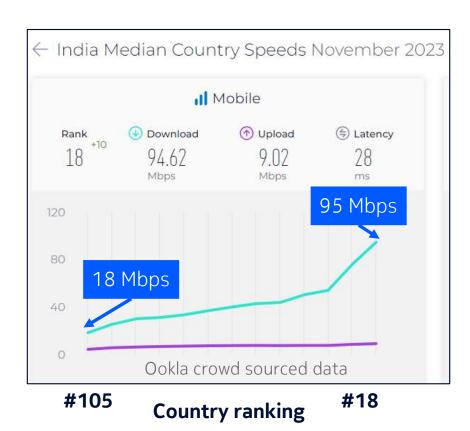


5G has boosted mobile data rates massively in India



India November 2022

- Average data rate 18 Mbps
- Global country ranking 105

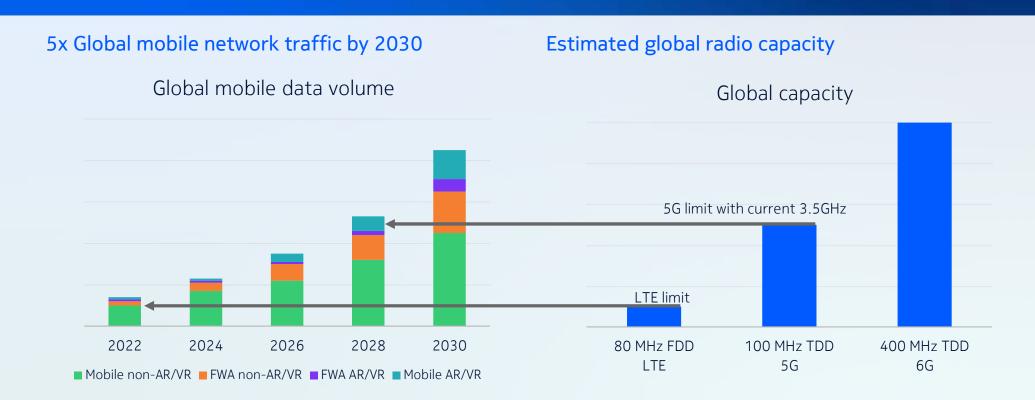


India November 2023

- Average data rate 95 Mbps
- Global country ranking 18



Traffic growth requires new spectrum and 6G technology by 2030





Spectrum development for 5G-Advanced and 6G IMT outcome of WRC23 including agreed studies for WRC-27





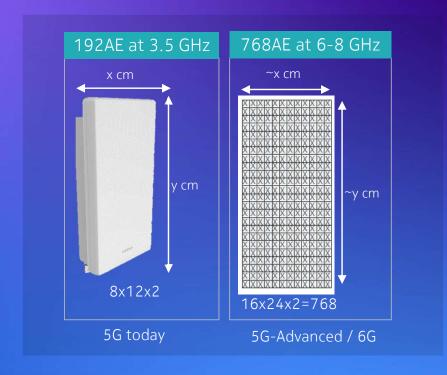
n104 will allow an early deployment of a harmonised 6G capable radio environment



6GHz will reap the real benefits of mMIMO Radio Technology

Extreme scalable mMIMO

- More AEs in the same space
- 5-6 dBi better coverage
- More AEs → more TRXs
- Advanced beamforming Algorithms





Each "G" follows the S curve

5G was the quickest



Source: Gartner Hype Cycle/CNS



5G-Advanced will boost 5G experience, operability and use cases



MN 5G-Advanced Strategic pillars

Experience	Efficiency	Use cases
XR traffic, latency and mobility	AI/ML Enhancements	loT Optimized RedCap
Uplink performance boost	RAN Energy Efficiency	Uncrewed Aerial Vehicle
		Non-Terrestrial Networks



XR is a journey that has already begun 3GPP Release 18 brings the full potential to XR

Performance

Uplink enhancements

XR application aware scheduling

Latency

Edge computing
Advanced scheduling algorithms enable by
AI/ML



Connectivity

Mobility and cell management (reduction of interruption time)

Device Power savings (adaptive DRX)



5G-Advanced facts to remember

New monetization opportunities

Use cases beyond eMBB

Backward
Compatibility

Backward compatibility to 5G.

Timing

Standardization: mid 2024 Market introduction: 2025 Path to 6G

Baseline for 6G networks



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