

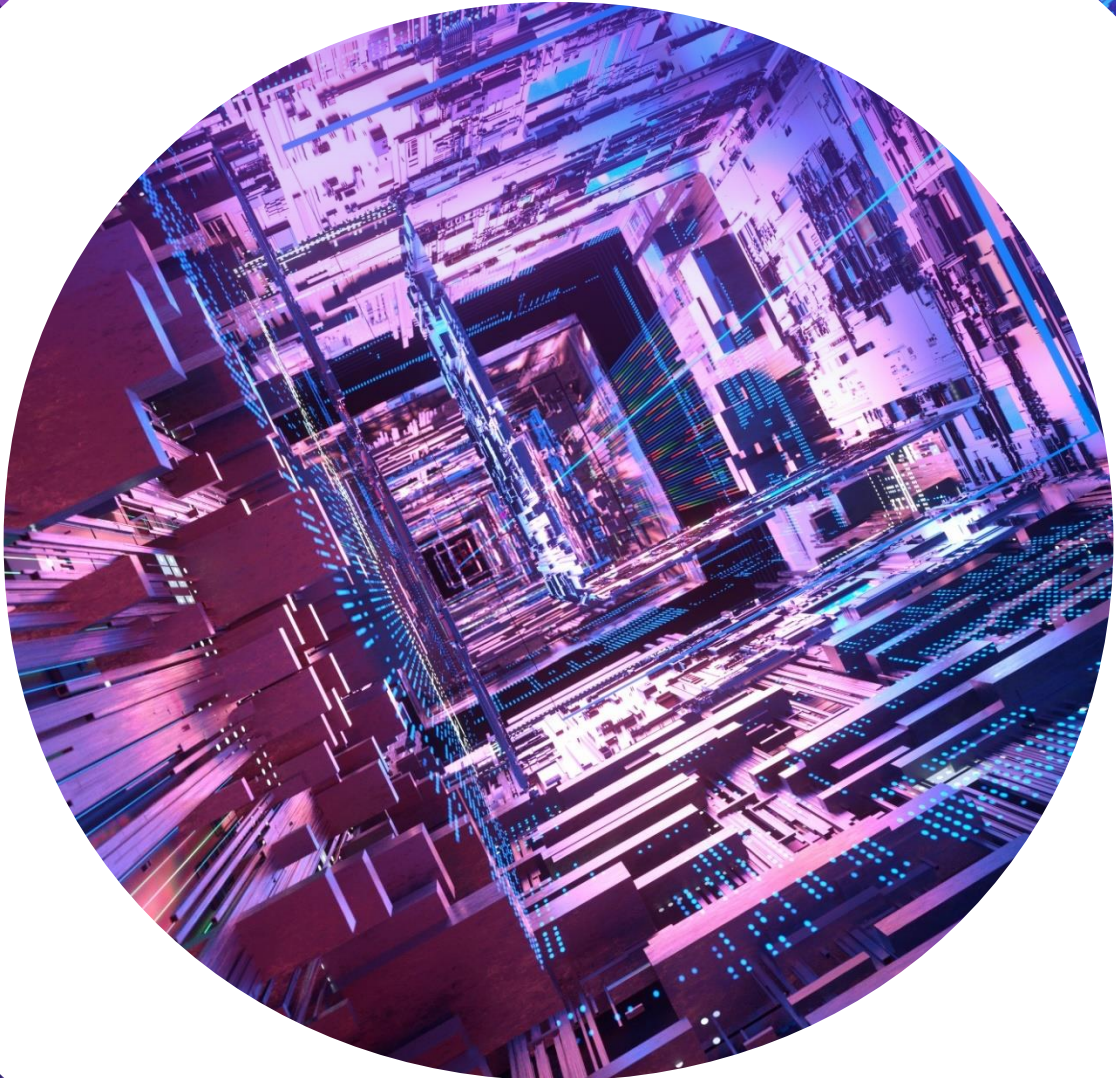
NOKIA

(())
MBit
Index

12th

Edition

India Mobile Broadband Index 2025



About

Nokia MBiT Index

Nokia MBiT Index is an annual report on mobile broadband performance in India. It aims to provide valuable insights, data and analysis of mobile broadband and traffic growth by correlating these trends with various demand and supply-side drivers of the connectivity ecosystem including devices and traffic usage patterns.

01

The 12th edition of the report assesses mobile broadband data traffic growth and trends across India. It also tracks data consumption per user and sheds light on the device ecosystem in India.

02

Widespread and reliable 5G accessibility and expanding device ecosystem are the primary drivers of 5G adoption and growth in data usage.

03

The report also highlights the role of 5G Advanced in realizing the full potential of 5G technology and provides insight into how 6G will shape the future of communications.

Pan India monthly 5G traffic surges threefold (y-o-y) to reach 7.6 EB in 2024

Mobile data traffic per month

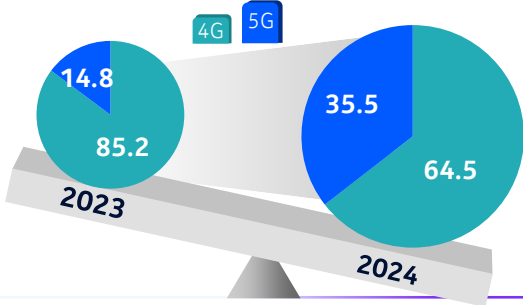
21.5
Exabyte

↑ 23%
y-o-y growth

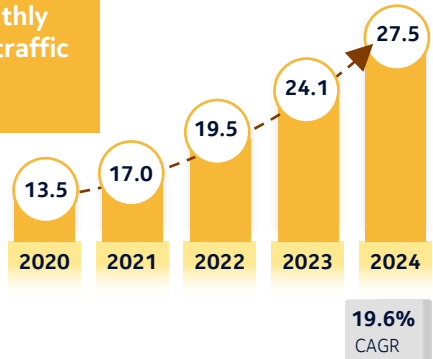
Over **12x**

5G FWA vs. mobile data user - Monthly data consumption

Traffic contribution (%)



Average monthly mobile data traffic per user (GB)



5G data traffic contribution in metros



Maximum growth witnessed in **Category B & C circles**

Average monthly 5G data traffic per user (GB)

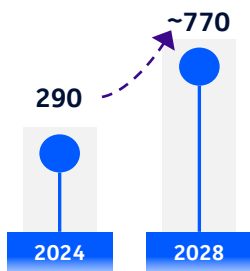
40 GB

as of December 2024

Share of 5G FWA in overall 5G data traffic

Over **25%**

5G subscribers (million)

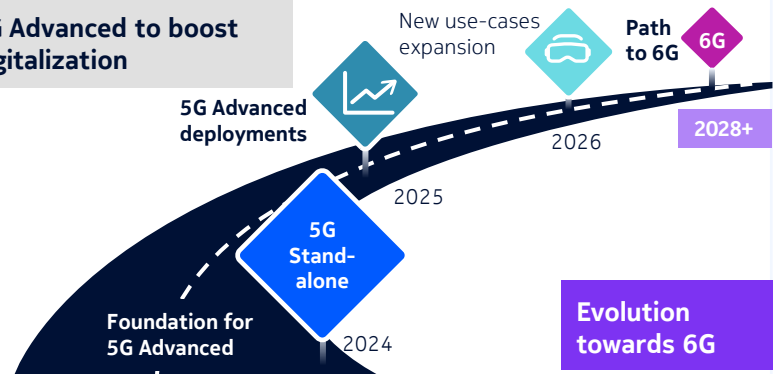


5G

~32%
Active 4G devices are 5G capable



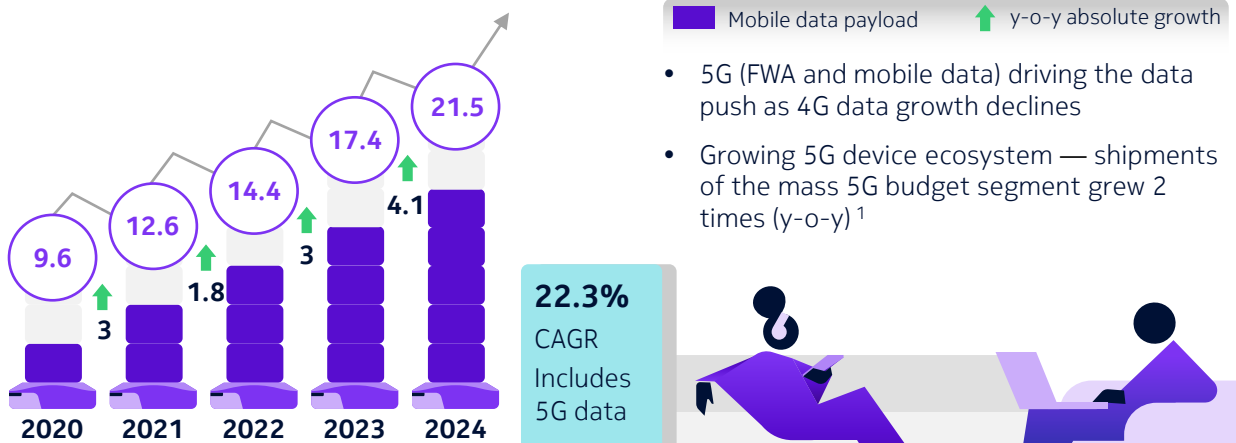
5G Advanced to boost digitalization



Evolution towards 6G

Mobile data traffic jumps 23% (y-o-y), touches 21.5 EB per month in 2024

Pan-India mobile data traffic – Exabyte (EB*) per month

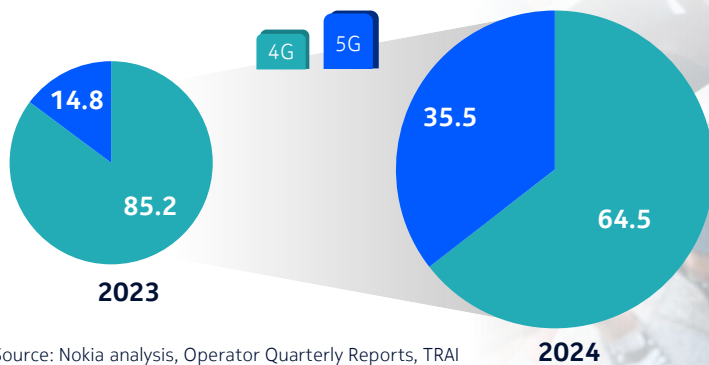


Source: Nokia analysis, Operator Quarterly Reports, TRAI

- 5G (FWA and mobile data) driving the data push as 4G data growth declines
- Growing 5G device ecosystem — shipments of the mass 5G budget segment grew 2 times (y-o-y)¹



Traffic contribution (%)



Source: Nokia analysis, Operator Quarterly Reports, TRAI

- 5G data traffic expected to surpass 4G data traffic by Q1 2026
- Data traffic contribution per month (2024)¹
 - 5G: 7.7 EB
 - 4G: 13.8 EB
- Expected 5G subscribers by 2028¹: ~770 million
- ~120 million 5G subscribers expected to be added annually¹

Data subscribers (million)



Source: Nokia analysis, Operator Quarterly Reports, TRAI

Source: 1. Nokia analysis
*1EB=1000 PB **Represents y-o-y growth for Dec-23 to Dec-24
Note: 2G and 3G contribution in overall data traffic is marginal and reducing.

Pan India 5G traffic triples in a year, category B & C circles lead the growth

5G + 4G payload by category (in Exabyte), per month

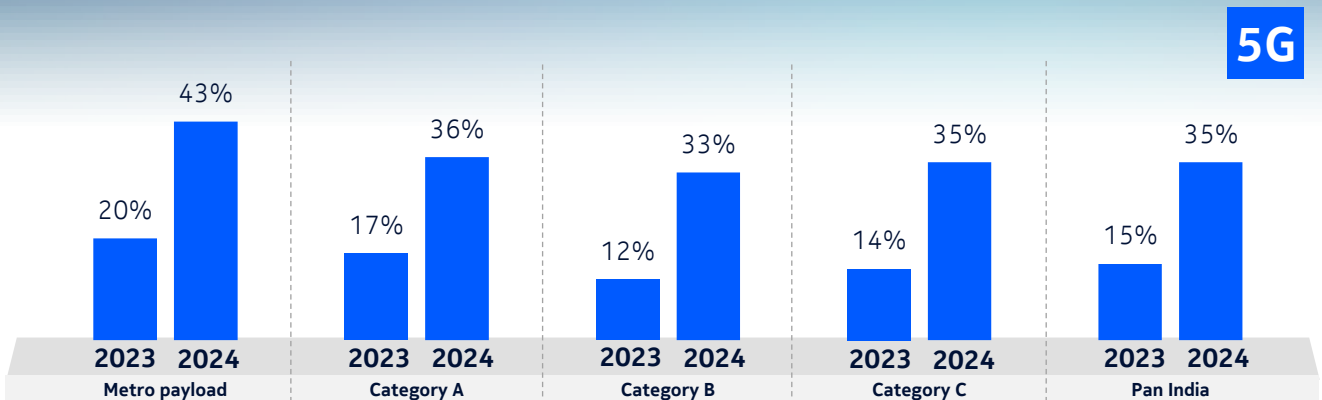
as of December 2024



Source: Nokia analysis

5G data traffic contribution across circles

*Contribution as of December



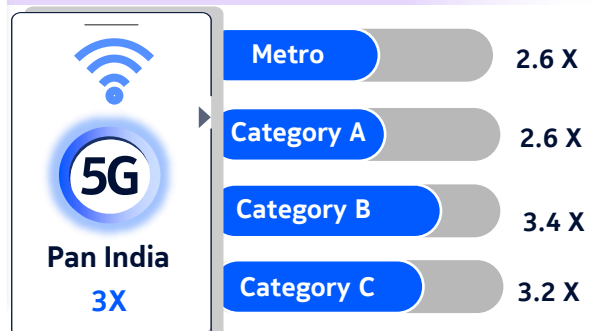
Source: Nokia analysis

- 5G data usage in metros touches ~43% (vs. 20% in 2023) as 4G data growth is declining¹
- 5G data growth in Category B (3.4x) and C (3.2x) circles driven mainly by the expansion of 5G networks within these circles¹



Source: 1. Nokia analysis

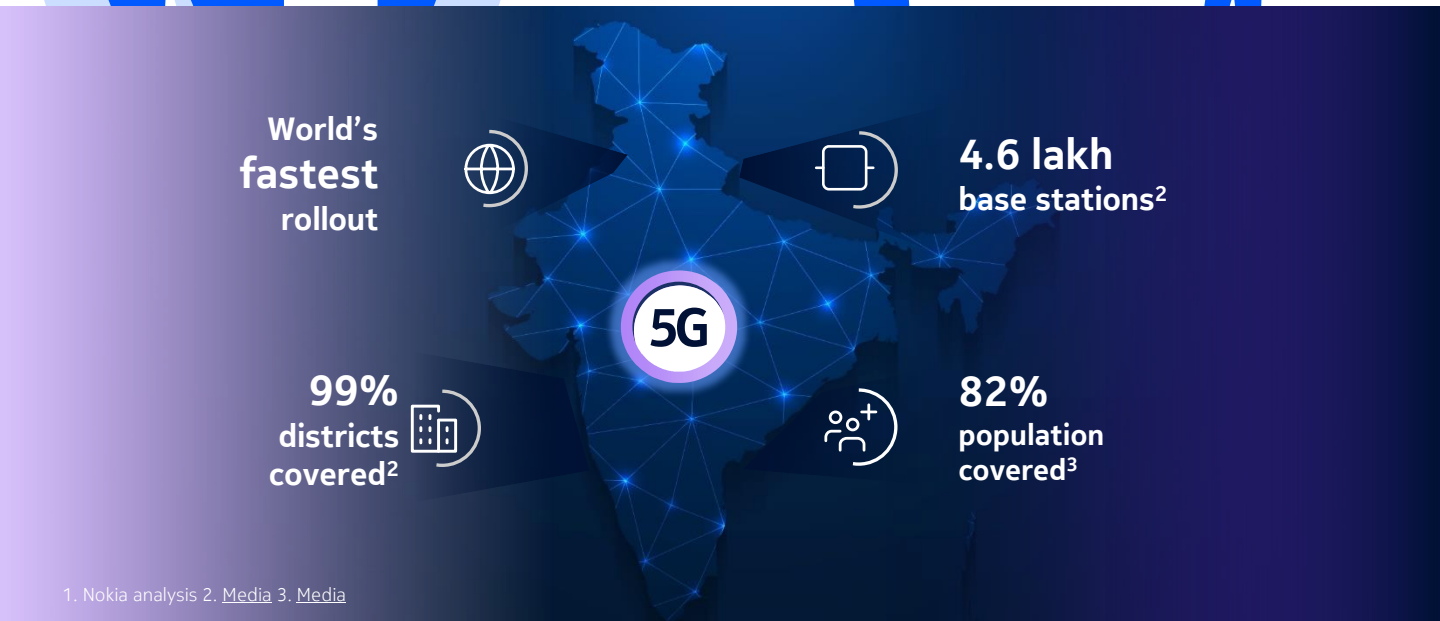
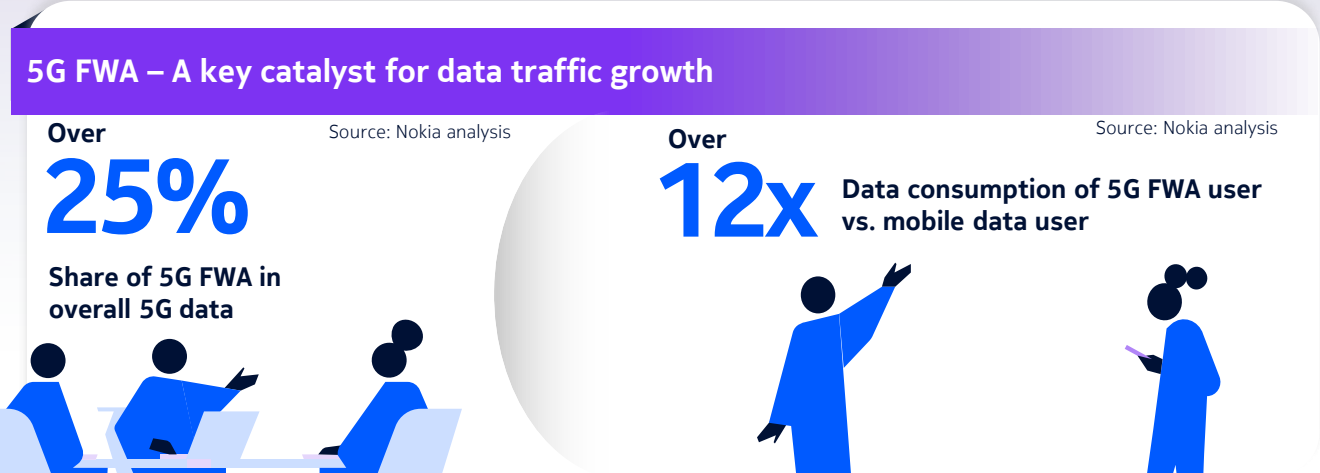
5G Traffic Growth (2024 vs. 2023)



Source: Nokia analysis

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Average monthly data per user soars to 27.5 GB in 2024, CAGR of 19.5% over last five years



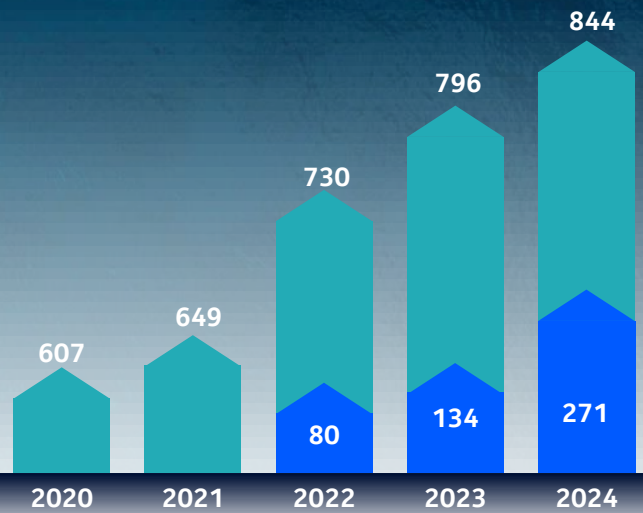
1. Nokia analysis 2. Media 3. Media

Active 5G devices doubled to reach 271 million in 2024

5G and 4G devices

Active 4G capable Devices (Teal) Active 5G capable Devices (Blue)

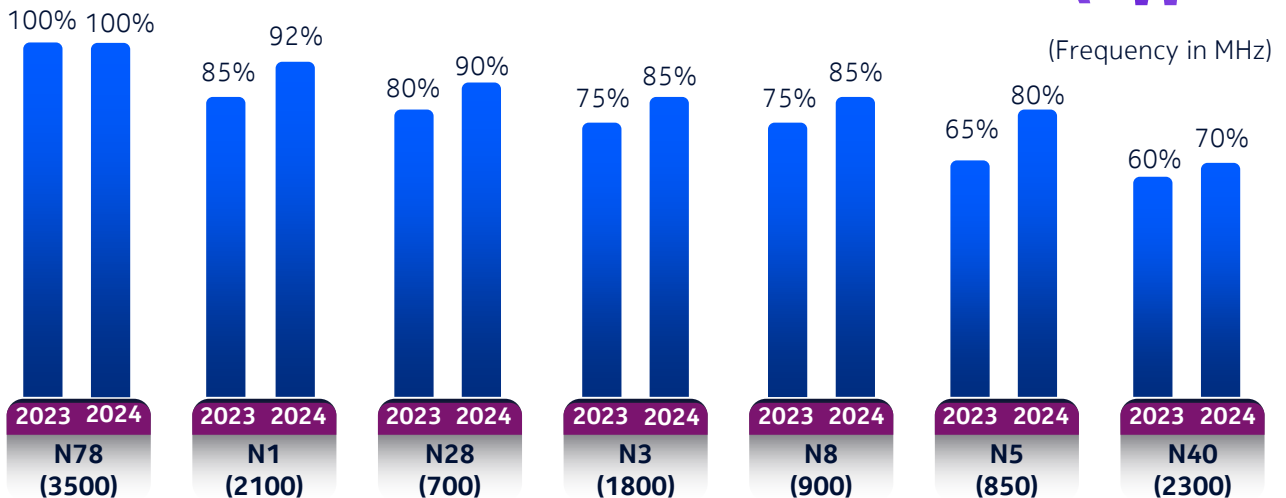
- 844 million active 4G devices; out of which 271 million are 5G capable
- Nearly 4 out of 5 smartphones replaced in 2024 were 5G-capable¹
- The share of 5G smartphone in overall smartphone shipments grew to 79% in 2024 (vs.55% in 2023)¹



Source: Nokia analysis

Growing 5G ecosystem paving the way for accelerated 5G adoption

- Average 10% increase in device support across all the major bands deployed in India
- N1 (2100MHz) band emerges as the second most popular 5G band
- Expanding 5G device ecosystem in existing CSP frequency bands to be a key driver for refarming



Source: Nokia analysis

1. IDC (Media)

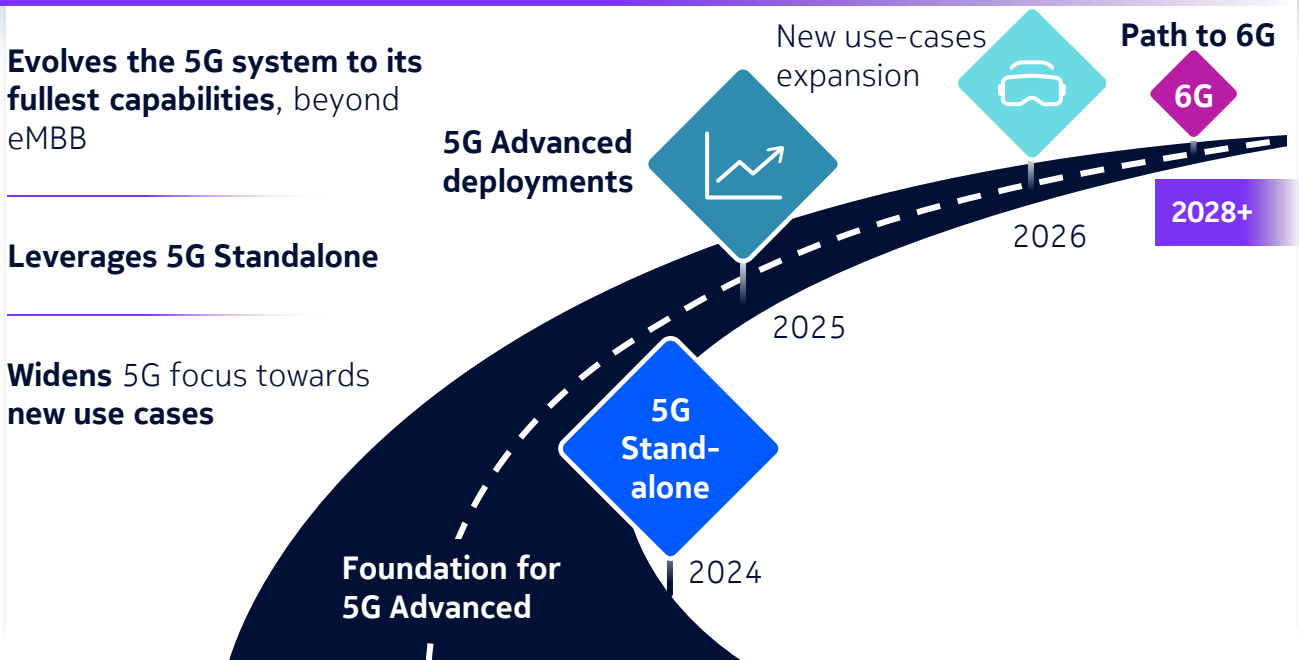
5G Advanced: The next evolutionary step

- Enhanced capabilities beyond connectivity and a wider set of advanced use cases for verticals
- AI and ML enhancements across RAN, Core, and network management layer for improved performance, network optimization, and energy efficiency

Evolves the 5G system to its fullest capabilities



5G Advanced deployment timeline

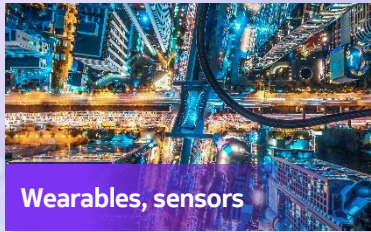
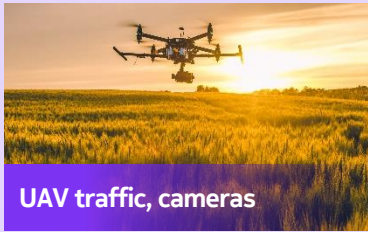


New usage areas, new services, boosted resiliency and operability

5G Advanced will deliver superior service differentiation, enable new revenue streams and drive down operational costs by leveraging intelligent and autonomous operations.

5G Advanced to expand digitalization

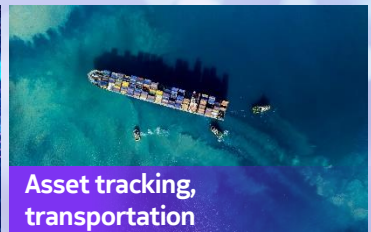
Address new segments



Experience: Enrich 5G experience



Beyond traditional communication

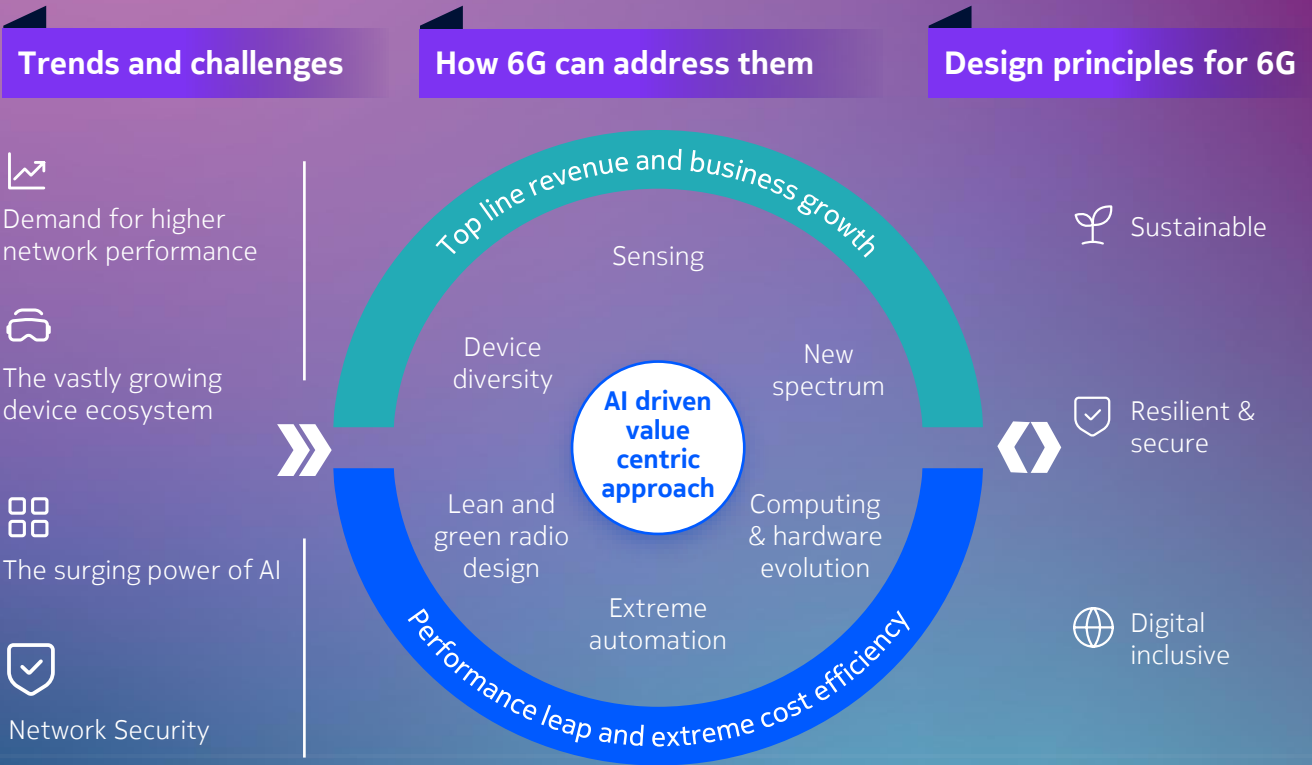


Optimize operational expenses



The enhanced capabilities and features of 5G Advanced lay the foundation for transitioning to 6G. The stepping stones would also include: distributed massive MIMO, AI-native network fabric, new spectrum and radio architectures, and the evolution of intent based automation.

6G: Vital to shaping the future of communications

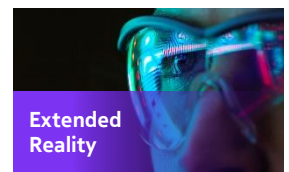
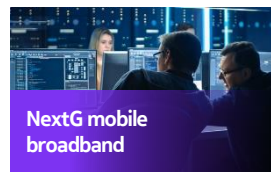


Realization of this 6G vision comes in stages

Technology enablers and services examples

6G day-one focus

- Extreme MIMO on existing grid
- Smooth migration and core evolution
- Programmable networks and API native
- AI-native framework
- Energy efficiency framework
- Non-Terrestrial Networks (NTN) support for all UE types



6G to build on 5G success and do so in a more efficient, economical, scalable and sustainable way

Future Outlook



5G data traffic expected to surpass 4G data traffic by Q1 2026



~90% of smartphones to be replaced in 2025 expected to be 5G-capable



5G Advanced will provide major enhancements to widen the business potential of 5G and accelerate the monetization investments



Moving beyond voice, video and data communications, future applications in the 6G era will benefit from distributed compute services, intelligence and analytics capabilities, as well as sensing, spatial and temporal services for the localization of people and objects

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At Nokia, we create technology that helps the world act together.

As a B2B technology innovation leader, we are pioneering networks that sense, think and act by leveraging our work across mobile, fixed and cloud networks. In addition, we create value with intellectual property and long-term research, led by the award-winning Nokia Bell Labs, which is celebrating 100 years of innovation.

With truly open architectures that seamlessly integrate into any ecosystem, our high-performance networks create new opportunities for monetization and scale. Service providers, enterprises and partners worldwide trust Nokia to deliver secure, reliable and sustainable networks today – and work with us to create the digital services and applications of the future.

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