

0.98 Zettabyte
mobile data during 2023

352M
5G subscribers during
end-2023

\$6.3B USD
CAPEX spent on 5G
eMBB cellular deployments
during 2023

\$35B USD
5G eMBB mobile service provider
revenues during 2023

ABI Research's 5G and Mobile Network Infrastructure market intelligence delivers end-to-end coverage on access networks and enabling technologies, as well as the data traffic flowing across these networks. Our extensive coverage, which includes data, trend, and forecast reports, focuses on cellular network components ranging from antennas, base stations, and access points to front-haul and back-haul. We aim to provide technology implementers with authoritative insight into the innovative technology deployments for indoor and outdoor networks operating under both licensed and unlicensed spectrums, including 4G, 5G, massive MIMO, distributed antenna systems, carrier aggregation, new waveforms, and modulation schemes. Our research coverage also addresses the migration to software-driven, virtualized and open network architectures.

TOP QUESTIONS WE RECEIVE FROM INDUSTRY INNOVATORS

- When and how will 5G be deployed? Will it create new business opportunities, or will it offer higher speeds?
- What does 4G still have to offer? Will Gigabit LTE change this?
- When will mobile service providers spend more CAPEX on 5G vs 4G?
- Which world region will lead 5G deployments, and why?
- How can vendors sell carrier grade equipment to verticals directly? What are immediate opportunities?
- How will next-generation networks scale to accommodate new use cases?
- How will the heterogeneous nature of tomorrow's telco networks affect my business operations?
- What parts of existing networks can support 5G, and what needs to be upgraded?
- What will fixed wireless access deployments look like, and what are their business cases?
- What barriers face 5G indoor deployments, including alternatives of Wi-Fi and WiGig?
- How can telcos survive by building capacity with inexpensive small cells and distributed antenna systems (DAS)?
- How can my company best leverage 5G for competitive advantages?
- What is the best way to wirelessly connect my company's enterprise locations?
- What opportunities should I target beyond the traditional mobile operator circle?
- What does 5G bring for IoT that NB-IoT and CAT-M cannot?

COVERAGE AREAS

- Mobile telecom trackers with 4G and 5G focus
- Outdoor and indoor networks including macrocells and small cells
- Advanced RAN technologies such as massive MIMO, virtual RAN slicing, multi-connectivity
- 5G issues including economic, substitutes, regulatory, new business models
- In-building systems including DAS (Distributed Antenna Systems)
- RF power semiconductors for pulsed applications
- Detailed spectrum analysis for 5G networks, sub-6G to mmWave, including regional disparities

KEYWORDS

- Mobile network infrastructure
- 5G
- 4G
- LTE
- Mobile telecom
- Data traffic
- Indoor networks
- Outdoor networks
- IoT networks
- Spectrum analysis
- Sub-6G
- mmWave
- cmWave
- Multi-connectivity solutions
- In-building systems
- Advanced RAN technologies
- MIMO
- Beamforming
- 256QAM
- TDD and FDD duplexes
- Fronthaul/backhaul
- SDN (software-defined networking)
- Latency
- Bandwidth
- Connection density
- eMBB
- URLLC
- mMTC