THE FUTURE OF 5G TECHNOLOGY



MOBILE PHONE TECHNOLOGY CONTINUES TO IMPROVE

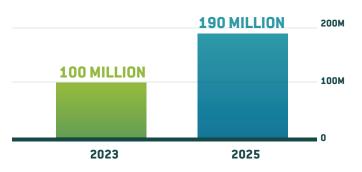
1980	1990	2000	2010	2020
First-generation (1G) networks used analog signals to connect the wireless phones that were introduced in the 1980s.	Second-generation (2G) networks were launched and switched cell phones to digital connections. 2G networks enabled simple data connections such as text messaging.	3G networks were launched and enabled better data connections such as access to the internet.	4G networks launched to enable even faster connections that optimize data-intensive applications such as watching videos.	These fifth-generation networks may transmit data so quickly that it eliminates the need to wire connections for televisions or the internet into the home.

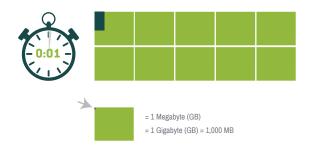
5G COVERAGE IS FORECAST TO REACH



5G WILL REACH **100 MILLION** MOBILE CONNECTIONS

in early 2023 and will become the leading mobile network technology in the country by 2025, with **more than 190 million** 5G connections.²





5G CONNECTIONS ARE LIGHTNING FAST

The technology is expected to accelerate cellular data transfer speeds from

100 MBPS TO 10 GBPS AND BEYOND.³

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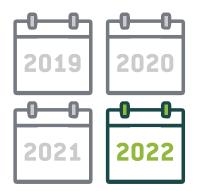
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North America will lead the adoption of 5G technology, with

63% of mobile subscriptions set to be 5G by 2024

followed by North East Asia with 47%



By 2022, the average 5G connection will generate nearly



than the average 4G connection.⁵

It is estimated that the arrival of 5G will lead to

22.5 BILLION

IoT devices being installed globally in 2021, up from around 16 billion the year before.⁶



1 https://www.ericsson.com/en/press-releases/2019/6/ericsson-mobility-report-5g-uptake-even-faster-than-expected 2 https://www.gsmaintelligence.com/research/?file=4cbbdb475f24b3c5f5a93a2796a4aa286download

 $\label{eq:linear} 3\ https://www.networkworld.com/article/3330603/5g-versus-4g-how-speed-latency-and-application-support-differ.html$

4 https://www.ericsson.com/en/press-releases/2019/6/ericsson-mobility-report-5g-uptake-even-faster-than-expected 5 https://www.cisco.com/c/en/us/solutions/collateral/service-provider/visual-networking-index-vni/white-paper-c11-738429.html 6 http://www.businessinsider.com/how-5g-will-revolutionize-the-internet-of-things-2017-6

https://www.ericsson.com/en/press-releases/2019/6/ericsson-mobility-report-5g-uptake-even-faster-than-expected

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