



5G WIRELESS

Market Size and Forecasts

Information Matters

March 2020

5G – Market Size and Forecasts

Overview

All the data in this report comes from sources made publicly available on the web by the original authors and publishers. The date of publication and the original source has been identified for verification purposes.

The Market Sizes and Forecasts

From: IDC

URL: <https://www.idc.com/getdoc.jsp?containerId=prUS45487719>

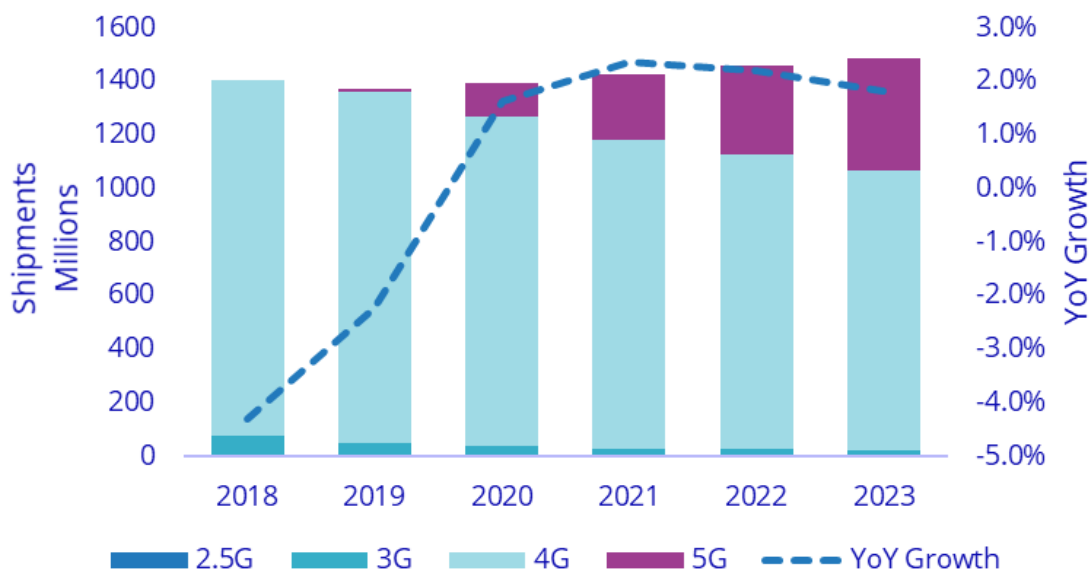
Published: September 2019

Data:

“IDC expects 5G shipments to reach 8.9% of smartphones shipped in 2020, accounting for 123.5 million devices shipped. This is expected to grow to 28.1% of worldwide smartphone shipments by 2023.”



Worldwide Smartphone Forecast by Generation, 2019Q2



Source: IDC 2019

Worldwide Smartphone Platform Shipments, Market Share, and 5-Year CAGR, 2018, 2019 and 2023 (shipments in millions)

Platform	2019 Shipment Volume*	2019 Market Share*	2019/2018 Growth*	2023 Shipment Volume*	2023 Market Share*	2018-2023 CAGR*
Android	1,193.2	87.0%	0.0%	1,297.8	87.4%	1.7%
iOS	177.9	13.0%	-14.8%	186.6	12.6%	-2.2%
Others	0.0	0.0%	-91.8%	0.0	0.0%	-43.2%
Total	1,371.1	100.0%	-2.2%	1,484.5	100.0%	1.1%

Source: IDC Worldwide Quarterly Mobile Phone Tracker, August 2019.

From: IDC

URL: <https://www.idc.com/getdoc.jsp?containerId=prUS45740019>

Published: December 2019

Data:

“International Data Corporation (IDC) projects the number of 5G connections to grow from roughly 10.0 million in 2019 to 1.01 billion in 2023. This represents a compound annual growth rate (CAGR) of 217.2% over the 2019-2023 forecast period. By 2023, IDC expects 5G will represent 8.9% of all mobile device connections.”

From: IDC

URL: <https://www.idc.com/getdoc.jsp?containerId=US44392218>

Published: November 2018

Data:

“This IDC study provides the forecast for the 5G network infrastructure market for 2018-2022. IDC believes spending on 5G-related routing and optical backhaul will rise at CAGRs of 146.1% and 129.6%, respectively, over the forecast period. Demand for backhaul routers and an improved optical underlay will be critical to enable 5G service evolution.”

From: Gartner

URL: <https://www.gartner.com/en/newsroom/press-releases/2019-08-22-gartner-forecasts-worldwide-5g-network-infrastructure>

Published: August 2019

Data:

“In 2020, worldwide 5G wireless network infrastructure revenue will reach \$4.2 billion, an 89% increase from 2019 revenue of \$2.2 billion, according to Gartner, Inc. Additionally, Gartner forecasts that investments in 5G NR network infrastructure will account for 6% of the total wireless infrastructure revenue of communications service providers (CSPs) in 2019, and that this figure will reach 12% in 2020.”

Table 1: Wireless Infrastructure Revenue Forecast, Worldwide, 2018-2021 (Millions of Dollars)

Segment	2018	2019	2020	2021
5G	612.9	2,211.4	4,176.0	6,805.6
2G	1,503.1	697.5	406.5	285.2
3G	5,578.4	3,694.0	2,464.3	1,558.0
LTE and 4G	20,454.7	19,322.4	18,278.2	16,352.7
Small Cells	4,785.6	5,378.4	5,858.1	6,473.1
Mobile Core	4,599.0	4,621.0	4,787.3	5,009.5
Total	37,533.6	35,924.7	35,970.5	36,484.1

Due to rounding, figures may not add up precisely to the totals shown.

Source: Gartner (August 2019)

From: Gartner

URL: <https://www.gartner.com/en/newsroom/press-releases/2019-01-21-gartner-forecasts-global-device-shipments-will-grow-0>

Published: January 2020

Data:

“5G Mobile Phones’ Market Share Will Grow Rapidly, From 12% in 2020 to 43% in 2022
Worldwide shipments of devices — PCs, tablets and mobile phones — will total 2.16 billion units in 2020, an increase of 0.9% from 2019, according to Gartner, Inc. In 2019, global shipments of devices totaled 2.15 billion units. The market will experience a further increase in 2023, when 5G handsets will account for over 50% of the mobile phones shipped.”

Worldwide Device Shipments by Device Type, 2020-2022 (Millions of Units)

Device Type	2020	2021	2022
Traditional PCs (Desk-Based and Notebook)	178.279	169.891	161.672
Ultramobiles (Premium)	72.529	76.789	80.036
Total PC Market	250.807	246.680	241.708
Ultramobiles (Basic and Utility)	138.712	134.255	132.465
Computing Device Market	389.519	380.935	374.173
Mobile Phones	1, 776.779	1, 771.242	1, 756.936
Total Device Market	2, 166.298	2, 152.177	2, 131.109

Due to rounding, some figures may not add up precisely to the totals shown.

Source: Gartner (January 2020)

From: Allied Market Research

URL: <https://www.alliedmarketresearch.com/5g-technology-market>

Published: July 2019

Data:

“The global 5g technology market is anticipated to be at \$5.53 billion in 2020, and is projected to reach \$667.90 billion by 2026, registering a CAGR of 122.3% from 2021 to 2026. Asia-Pacific would be the highest contributor to the global market, with \$2.20 billion in 2020, and is estimated to reach \$329.09 billion by 2026, registering a CAGR of 130.7% during forecast period.”

From: Grand View Research

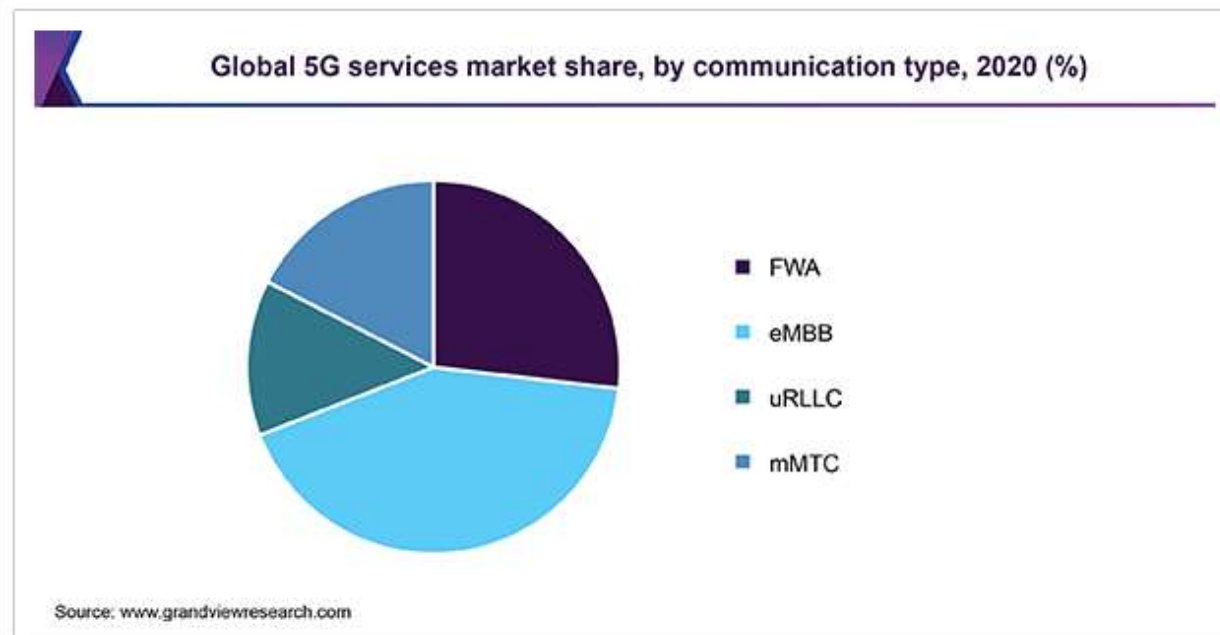
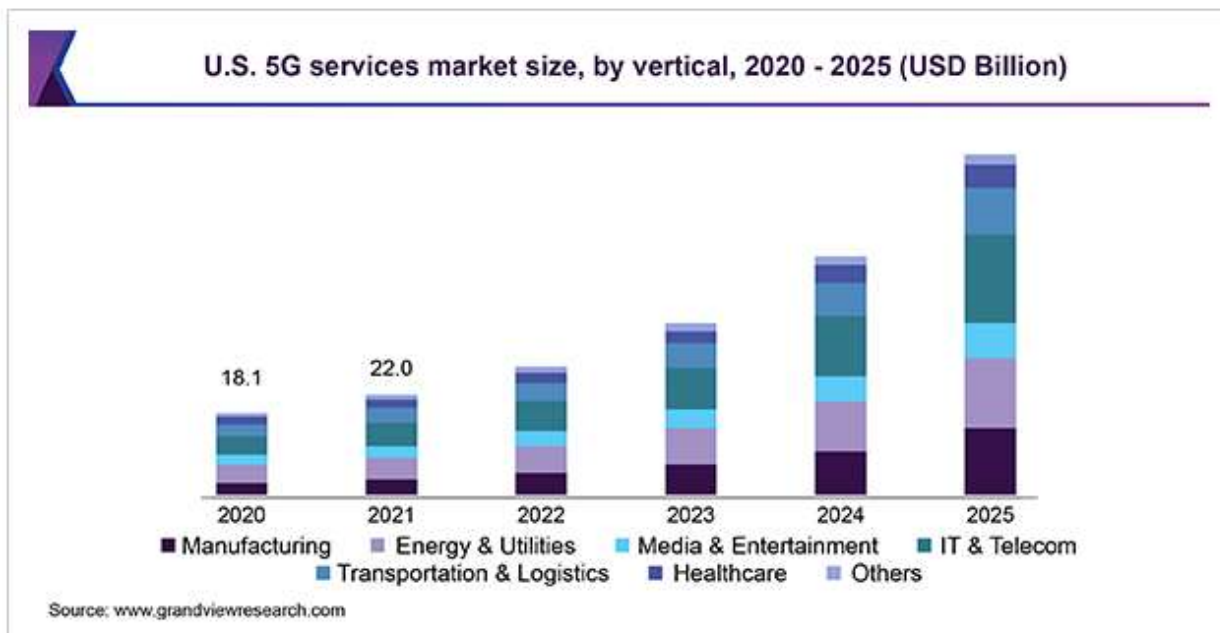
URL: <https://www.grandviewresearch.com/industry-analysis/5g-services-market>

Published: August 2019

Data:

“The global 5G services market size is estimated to reach USD 45.7 billion by 2020 and register a CAGR of 32.1% from 2021 to 2025.”

“The North American regional market is expected to account for around 40% share of the global market by 2020. Some of the most significant investments in deploying 5G network infrastructure are materializing in the U.S. For instance, according to GVR analysis, mobile operators based in the U.S. invested around USD 250 billion in mobile network infrastructure rollout between 2010 and 2017.”



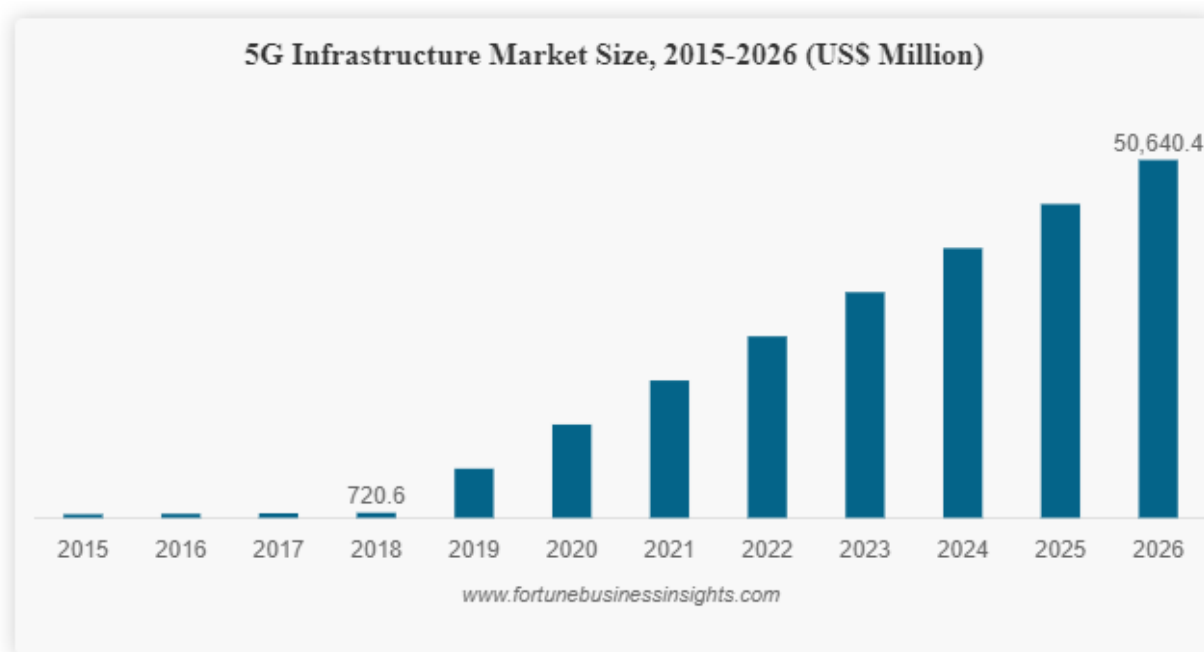
From: Fortune Business Insights

URL: <https://www.fortunebusinessinsights.com/industry-reports/5g-infrastructure-market-100869>

Published: July 2019

Data:

“The global 5G infrastructure market size was valued at USD 720.6 Mn in 2018, is projected to reach USD 50,640.4 Mn by the end of 2026.”



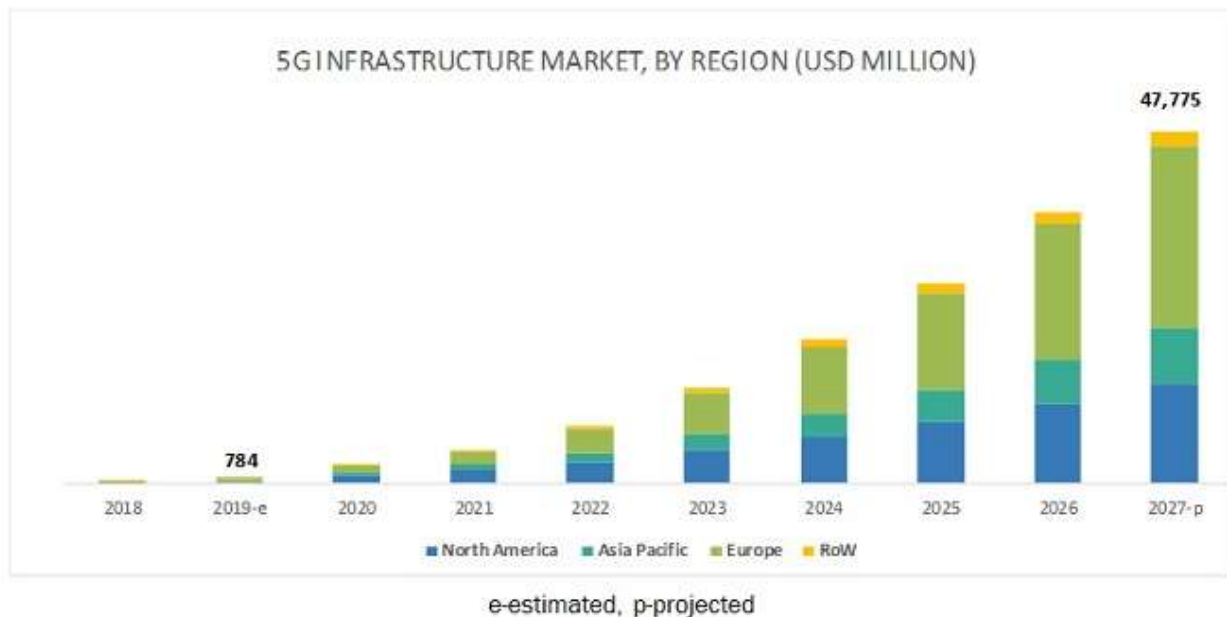
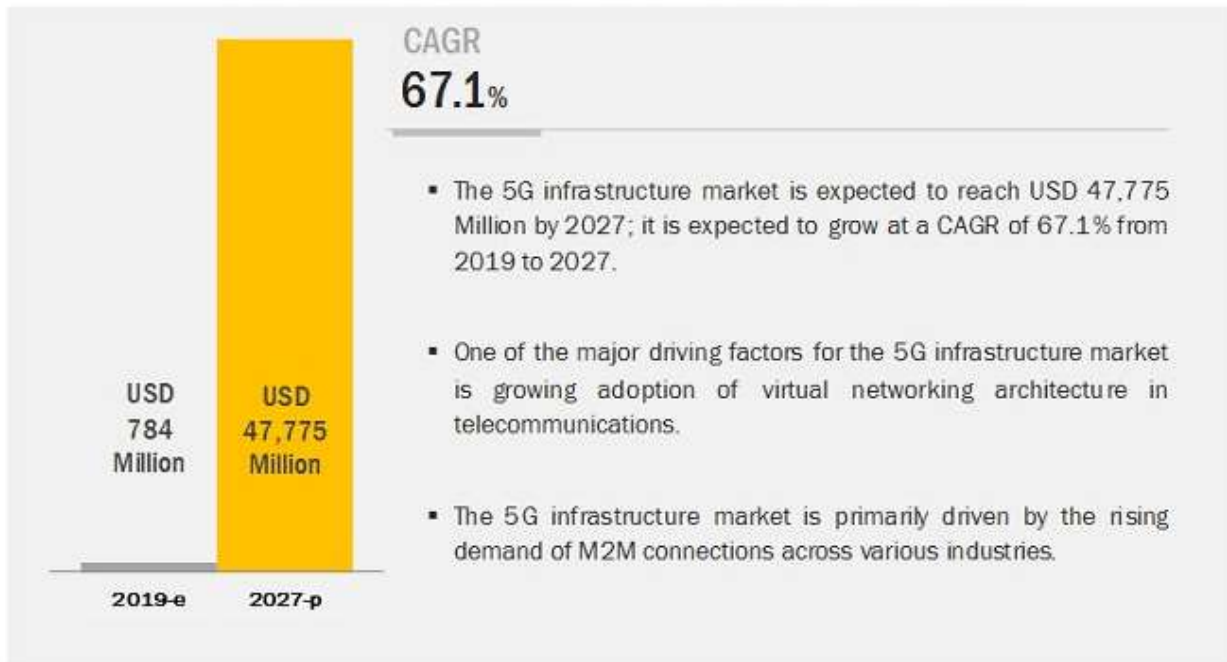
From: Markets and Markets

URL: <https://www.marketsandmarkets.com/Market-Reports/5g-technology-market-202955795.html>

Published: October 2019

Data:

“The 5G infrastructure market is estimated to be valued at USD 784 million in 2019 and is projected to reach USD 47,775 million by 2027, at a CAGR of 67.1%.”



From: Technavio

URL: <https://www.technavio.com/report/global-5g-equipment-market-industry-analysis>

Published: December 2018

Data:

“The global 5G equipment market size will grow by USD 16.28 billion during 2019-2023.”



From: CCS Insight

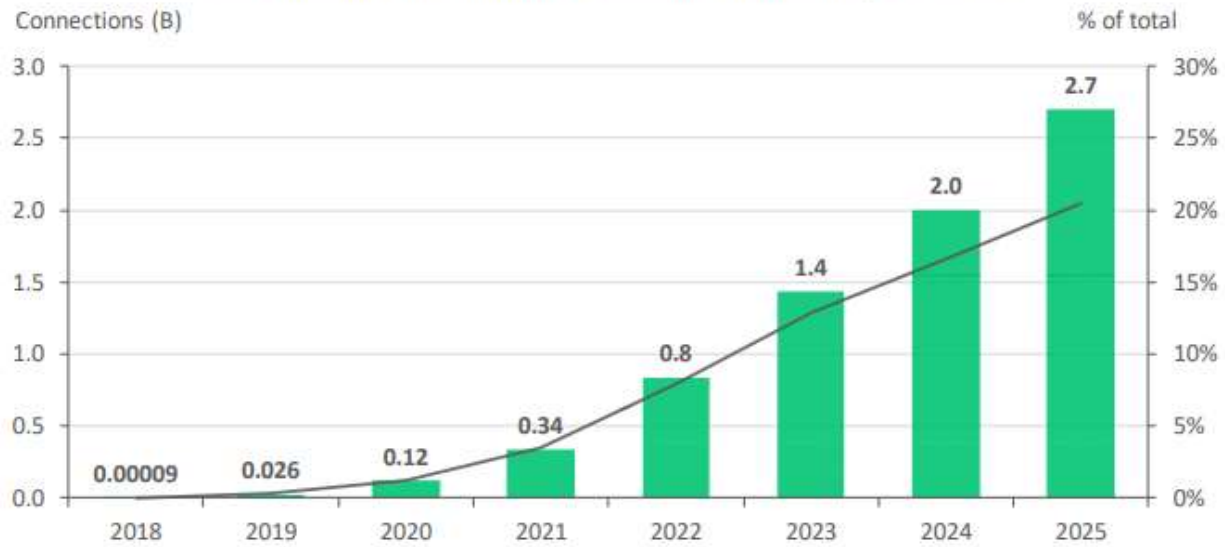
URL: https://www.ccsinsight.com/wp-content/uploads/2019/02/CCS_Insight_5G_Forecast_Sample.pdf

Published: August 2018

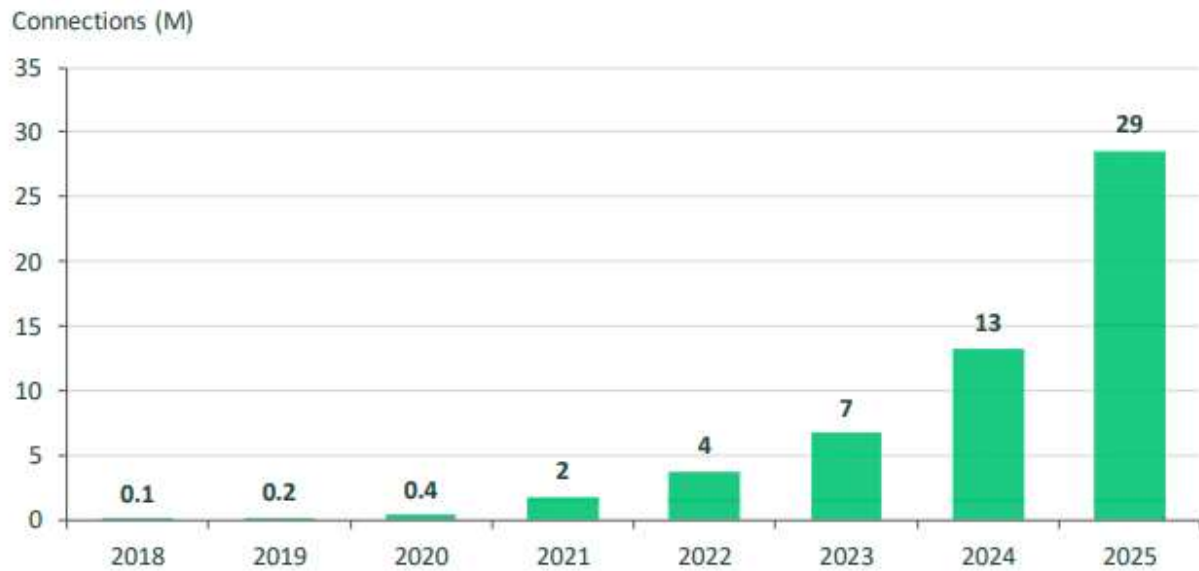
Data:

“The number of 5G connections will be limited until 2019, but will start building quickly from 2020 onward, as networks are rolled out and smartphones that support 5G proliferate. 5G connections will reach 1 billion in 2023 and will double to 2 billion by the end of 2024. In 2025, 21% of all worldwide cellular connections, including M2M, will be 5G.”

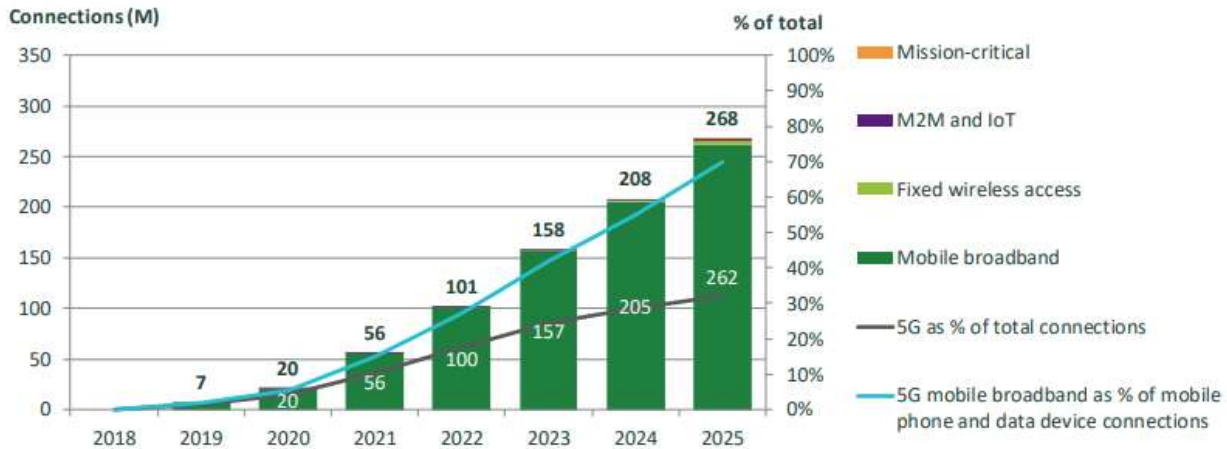
5G connections and share of total cellular connections, worldwide



5G fixed wireless access connections, worldwide



5G connections by type



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