

# 5G Technology ROI Market: The Game-Changer for Smart Cities and IoT Ecosystems

*5G Technology ROI Market Expected to Reach \$320.1 Billion by 2026*

WILMINGTON, DE, UNITED STATES, January 9, 2025 /EINPresswire.com/ -- Allied Market Research, titled, "[5G Technology ROI Market](#) by Industry Vertical: Global Opportunity Analysis and Industry Forecast, 2020–2026," the 5G technology return on investment market size was valued at \$2.0 billion in 2020, and is projected to reach at \$320.1 billion by 2026, growing at a CAGR of 132.8% from 2020 to 2026. 5G technology is expected to be the next biggest leap in communication technologies.



5G Technology ROI Market Growth

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5G powers Industry 4.0 with smart factories, robots, sensors, and automation, driving on-demand manufacturing and efficient supply chain operations.”

*Allied Market Research*

5G technology is a new kind of network that enables everyone to connect virtually, including machines and devices. The increasing internet traffic with the increasing number of Internet of Things (IoT) demands for more resilient network. The 5G network is anticipated to accommodate the growing demand for high-speed mobile broadband. The low latency, high speed, and high capacity of the 5G network enables the data-intensive applications to perform efficiently. As a result, the 5G network can

handle a massive number of devices that is considerably higher than 4G LTE. The peak download speeds of the 5G network being as high as 20 gigabits per second enable a wide array of IoT applications such as healthcare, energy, education, and transportation.

5G technology is propelling advancements in next-generation technologies such as remote precision medicine, virtual and augmented reality, and connected cars.

Ultrareliable and low latency communications (URLLC), massive machine-type communications (MTC), and enhanced mobile broadband (eMBB) are driving the 5G technology market. International standardization of 5G will expand the capabilities of businesses. Besides, the growing adoption of edge computing, the rapidly rising number of IoT devices, the surge in content streaming services, and the increase in demand for low latency connectivity in industrial automation are some of the prominent driving factors that fuel the growth of 5G technology. However, the availability of frequency bands, deployment of 5G infrastructure, and adequate investments are some of the major factors obstructing the growth of 5G technology rollout.

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The [5G Technology ROI industry](#) key market players adopt various strategies such as product launch, product development, collaboration, partnership, and agreements to influence the market. It includes details about the key players in the market's strengths, product portfolio, market size and share analysis, operational results, and market positioning.

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- Telefonaktiebolaget LM Ericsson
- NTT DOCOMO, INC
- Huawei Technologies Co., Ltd.
- KDDI Corporation
- Infineon Technologies AG
- KT Corporation
- AT&T Inc
- Telekom Deutschland GmbH
- SK Telecom
- China Mobile
- Verizon Communications Inc.
- Nokia Corporation

The investments in 5G technology are gaining momentum for industrial and commercial applications shortly. There is an enthusiasm among businesses to capitalize on next-generation equipment to spearhead competition and strengthen their market position. For instance, Ford Motor Company, Volkswagen AG, and Volvo Cars AG are some of the leading players in the automotive industry that have initiated investment in 5G technology for the development of autonomous and connected cars. In industrial machinery, key market players such as Murata Manufacturing Co, Ltd., Sony Corporation, and LG Corporation are the few early adopters of 5G technology at their production sites. The early investors of 5G technology from the healthcare

and life sciences industry are Rush University System for Health in the U.S., The Royal Liverpool University Hospital in the UK, Siemens Healthcare, and People's Liberation Army General Hospital in China.

In 2020, Asia-Pacific is leading in the deployment of 5G technology, followed by North America. South Korea, China, and the U.S. are leading in the building and deploying 5G infrastructure. AT&T Inc., China Mobile, and KT Corporation are some of the leading telecom operators that are continuously developing the 5G technology. Furthermore, Nordic countries also witness significant developments in 5G technology in the coming years.

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- To generate a tangible return on investment from 5G technology, there must be a complete transition from 4G LTE to gigabit-class LTE to 5G solution.
- According to 52% of telecom executives, one of the largest barriers to 5G technology rollout is the lack of compelling use cases.
- The growing adoption of IoT devices is a prime driving factor creating the need for high-speed communication technology such as 5G.

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