

5G in Agriculture Market Analysis Report Exploring Demand Patterns and Competitive Landscape

The Business Research Company's 5G in Agriculture Market Global Market Report 2026 – Market Size, Trends, And Forecast 2026-2035

LONDON, GREATER LONDON, UNITED KINGDOM, October 16, 2026 /EINPresswire.com/ -- "The integration of 5G technology is revolutionizing the agriculture sector, opening new avenues for enhanced productivity and efficiency. As the agricultural landscape embraces cutting-edge connectivity, the [5G in Agriculture market](#) is set to witness remarkable growth and innovation. Below, we explore the market's size, regional leadership, key growth factors, and competitive dynamics shaping this transformation.

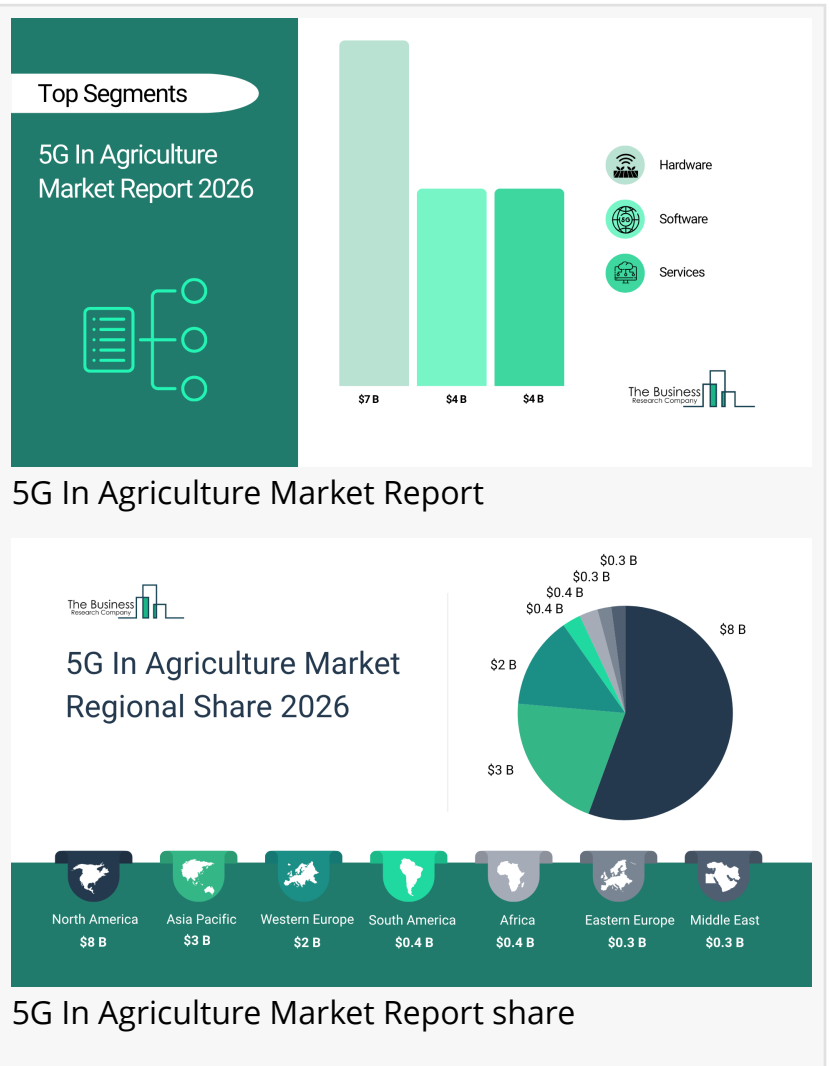
Projected Market Size and Position within Agriculture

The 5G in Agriculture market is on track to exceed \$14 billion by 2030.

When compared to the broader Precision Farming market—which is anticipated to reach roughly \$15 billion by the same year—5G technology will constitute around 93% of that segment's value. Within the wider Agriculture industry, expected to total \$17,550 billion by 2030, 5G-enabled farming solutions will make up nearly 0.1% of the entire market's worth.

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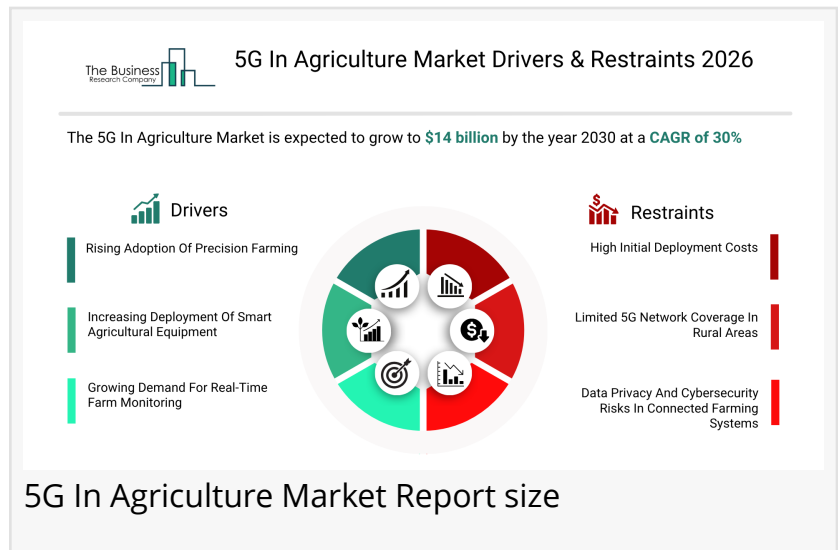
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North America's Leading Role in 5G in Agriculture

By 2030, North America is projected to dominate the 5G in Agriculture landscape, with a market valuation of \$8.0 billion. The region's market will grow from \$2.9 billion in 2025 at a solid compound annual growth rate (CAGR) of 23%. This rapid expansion is primarily driven by accelerated 5G infrastructure rollouts in rural zones, greater adoption of smart farming technologies, increased investments in precision agriculture, widespread use of connected equipment and IoT sensors, along with supportive governmental policies aimed at advancing sustainable agricultural productivity.



United States to Hold Largest Country Share Globally

The United States is expected to be the foremost country in the global 5G in Agriculture market by 2030, valued at \$7.5 billion. Starting from \$2.8 billion in 2025, the market will expand at a CAGR of 22%. This growth stems from widespread adoption of autonomous farming machinery, the proliferation of AI-driven crop monitoring and analytics, surging demand for real-time data connectivity to boost farm efficiency, effective partnerships between telecom providers and ag-tech companies, and the deployment of smart irrigation and remote farm management systems on extensive agricultural lands.

Access The Detailed 5G In Agriculture Market Report Here

https://thebusinessresearchcompany.com/report/5g-in-agriculture-market-report?utm_source=EINPresswire&utm_medium=Paid&utm_campaign=Oct PR

Dominance of Hardware in the 5G in Agriculture Market

Looking at components, hardware will represent the largest portion of the 5G in Agriculture market, making up 49% or \$7 billion by 2030. This segment's growth is supported by the increasing deployment of 5G-enabled devices such as sensors, gateways, drones, and connected farming machinery. Additionally, rising investment in edge computing for agriculture, demand for advanced monitoring infrastructure, adoption of automated equipment, and ongoing innovations in rugged communication tools for farming conditions are fueling hardware sales.

Connectivity Types and Deployment Methods in 5G Agriculture

The market segments 5G connectivity into enhanced mobile broadband (eMBB), ultra-reliable low latency communication (URLLC), and massive machine-type communication (mMTC). Deployment modes are divided into on-premises setups and cloud-based platforms. These varied options provide agricultural operators with flexible solutions tailored to different

operational needs and scales.

Diverse Applications and User Groups in 5G Agriculture

The 5G in Agriculture market covers applications such as precision farming, livestock monitoring, smart greenhouses, autonomous tractors, drones, and other innovative uses. Its end users include farmers, agribusinesses, research institutes, and additional stakeholders who benefit from connected technologies to improve agricultural outcomes.

Anticipated Growth Rate Leading Up to 2030

The 5G in Agriculture market is forecasted to achieve a compound annual growth rate of 30% through 2030, reflecting strong momentum fueled by technological advancements and increasing market adoption.

Precision Farming Accelerates Market Expansion

A major driver behind the market's rapid growth is the rising adoption of precision farming techniques. Farmers are embracing connected solutions to enhance decision-making at the field level, boosting crop yields and optimizing input use. High-speed 5G networks facilitate continuous communication among sensors, drones, GPS-enabled machinery, and digital farm management tools. This seamless connectivity supports precision operations and aligns with growers' focus on profitability and sustainability, contributing roughly 1.5% annual growth to the market.

Smart Agricultural Equipment Deployment Fuels Demand

The growing use of smart agricultural machinery plays a key role in expanding the 5G in Agriculture market. Farms are integrating autonomous vehicles, robotic systems, intelligent irrigation, and connected devices to streamline operations and resource management. These technologies rely on ultra-fast, low-latency 5G connections to enable synchronized control, remote operation, and uninterrupted machine-to-machine communication. The modernization of agricultural infrastructure and investment in automation are expected to add about 1.0% annual growth to the sector.

Real-Time Monitoring Needs Drive Market Progress

Increasing demand for real-time farm monitoring acts as an important catalyst for market development. Agricultural enterprises seek continuous visibility into crop status, livestock health, environmental conditions, and equipment usage. Advanced 5G connectivity supports the fast transmission of large data volumes generated by distributed sensor networks, allowing timely interventions and improved management. The growing emphasis on reducing production risks and boosting operational resilience is projected to contribute around 0.8% annual growth to the market.

Key Opportunities in Hardware, Software, and Services Segments

The hardware, software, and services sectors present the most substantial growth opportunities, collectively expected to add over \$11 billion in value by 2030. This growth is driven by

widespread adoption of connected agricultural infrastructure, increasing integration of AI and cloud-based management platforms, rising investment in intelligent communication networks, and ongoing innovation in autonomous farming technologies. The agricultural industry's transition toward data-centric, interconnected ecosystems is accelerating the development of end-to-end 5G-enabled farming solutions.

Market segmentation forecasts hardware growing by \$5 billion, software by \$3 billion, and services by \$3 billion between 2025 and 2030. The 5G in Agriculture market is shaped by a blend of global telecom providers, ag-tech innovators, and digital infrastructure companies, all focusing on precision farming, autonomous machinery connectivity, IoT-enabled sensors, and real-time monitoring systems. Their efforts emphasize ultra-low latency communication, edge computing, data-driven decisions, and sustainable practices, aiming to secure competitive advantages.

Market Leaders and Competitive Landscape

In 2025, Deere & Company led global sales in the 5G in Agriculture sector with a 7% market share. The company's precision agriculture division provides a broad portfolio of precision farming equipment, connected and autonomous tractors, IoT-enabled systems, and data analytics solutions that enhance smart farming operations and productivity.

Other prominent players include Huawei Technologies Co. Ltd., Telefonaktiebolaget LM Ericsson, Microsoft Corporation, Qualcomm Incorporated, Nokia Corporation, Cisco Systems Inc., Verizon Communications Inc., Kubota Corporation, and AGCO Corporation. These companies maintain notable market shares through diversified technology portfolios, strategic partnerships bridging telecommunications and agriculture, global connectivity infrastructure, and continuous innovation.

Market Fragmentation and Industry Concentration

The 5G in Agriculture market is moderately fragmented, with the top 10 firms accounting for 25% of total revenue in 2025. This balance reflects challenges such as the need for advanced 5G infrastructure, IoT integration, edge computing deployment, data interoperability, and reliable rural network coverage. As demand grows for real-time crop monitoring, autonomous operations, and data-driven farming, collaboration, product innovation, and geographical expansion will be critical to maintaining and growing market positions.

Suppliers Powering the 5G Agriculture Technology Chain

Key raw material suppliers supporting this market include semiconductor and technology giants such as Qualcomm Incorporated, Intel Corporation, Samsung Electronics Co. Ltd., Cisco Systems Inc., Broadcom Inc., Texas Instruments Incorporated, NVIDIA Corporation, Advanced Micro Devices Inc., and MediaTek Inc. The ecosystem also includes providers like Analog Devices Inc., NXP Semiconductors N.V., STMicroelectronics N.V., and Infineon Technologies AG, all crucial for the hardware components powering 5G-enabled agriculture solutions.

Wholesalers and Distributors Bridging the Supply Chain

Leading wholesalers and distributors include Ingram Micro Inc., Tech Data Corporation, Synnex Corporation, Arrow Electronics Inc., Avnet Inc., Redington Limited, ALSO Holding AG, Esprinet S.p.A., ScanSource Inc., and Westcon Group, among others. These companies ensure the efficient flow of components and devices essential for deploying 5G infrastructure and connected farming technologies worldwide.

Primary End Users Benefiting from 5G in Agriculture

The main end users include well-known agricultural and technology firms such as John Deere, CNH Industrial N.V., AGCO Corporation, Trimble Inc., Kubota Corporation, CLAAS KGaA mbH, Raven Industries Inc., Topcon Corporation, Bayer AG Crop Science, Syngenta Group, Corteva Agriscience, BASF SE Agricultural Solutions, Nutrien Ltd., Yara International ASA, Valmont Industries Inc., Lindsay Corporation, AG Leader Technology Inc., Farmers Edge Inc., Climate LLC, and Microsoft FarmBeats.

Emerging Competitive Trends Transforming the Market

Cutting-edge 5G smart agriculture pilot farms are reshaping the industry by integrating drones, automated machinery, and precision farming technologies. These innovations are enhancing resource efficiency and crop management, setting new standards for digital agriculture.

For example, in December 2024, Türk Telekom partnered with ZTE to launch a 5G smart agriculture project in Çorum, Turkey. The initiative features drones, smart machinery, automated spraying, fertilization, and precision irrigation systems. This project demonstrates how digital tools can improve operational precision, increase productivity, reduce resource consumption, and promote sustainable farming practices.

Strategic Moves Companies Are Making to Maintain Leadership

Industry players are focusing on advancing 5G precision farming technologies to improve monitoring and crop yields. They are leveraging low-latency networks to support smart machinery and irrigation systems, expanding rural 5G infrastructure to enhance productivity and market reach, and integrating AI and IoT technologies to boost automation and data-driven farming. These strategies are designed to secure competitive advantage and accelerate adoption within the rapidly evolving smart agriculture sector.

What's included in our 2026 market reports:

- Market attractiveness scoring and analysis
- Total addressable market (TAM) analysis
- Company scoring matrix graphics and tables
- Excel-based forecasting dashboards
- Market hotspots infographics
- Key technologies and future trend analysis
- Updated graphics and tables

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