

Precision Agriculture Market 2026 optimizing farm output through smart technologies

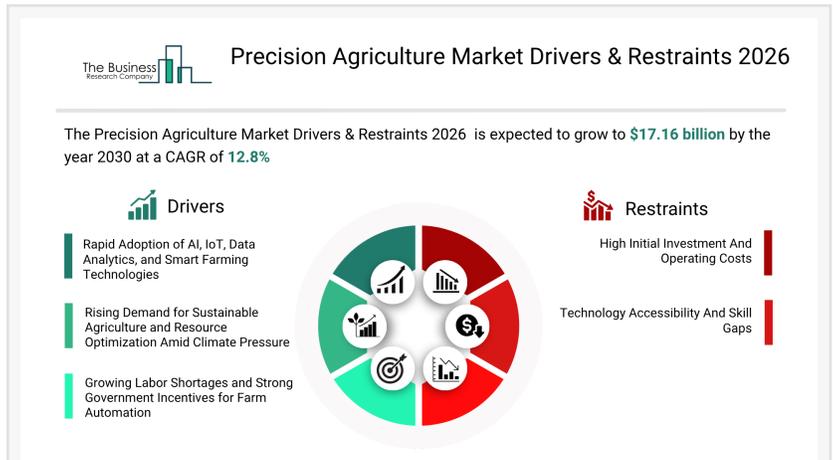
The Business Research Company's Precision Agriculture Global Market Report 2026 – Market Size, Trends, And Forecast 2026-2035

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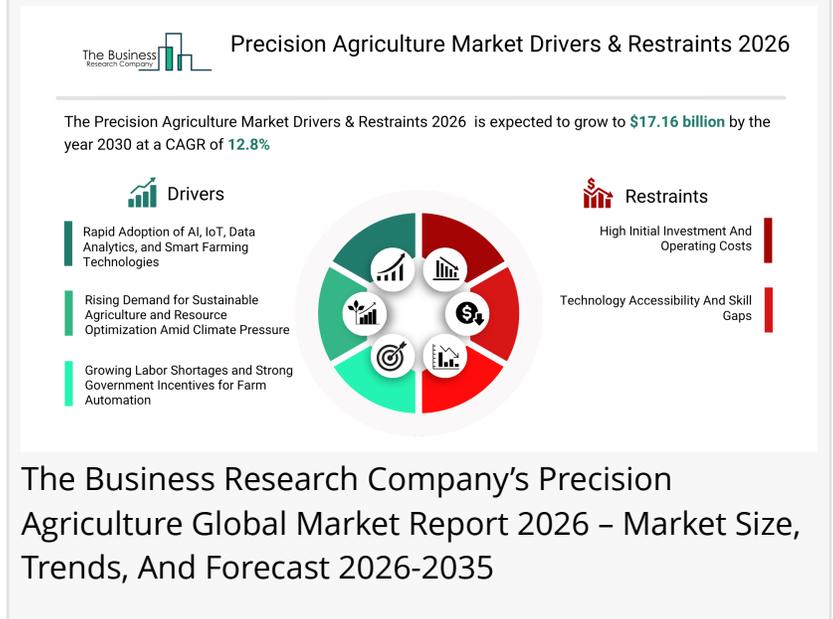
[/EINPresswire.com/](https://EINPresswire.com/) -- [Precision Agriculture market](#) to surpass \$17 billion in 2030. In comparison, the Precision Farming market, which is considered as its parent market, is expected to be approximately \$20 billion by 2030, with Precision Agriculture to represent around 86% of the parent market. Within the broader Agriculture industry, which is expected to be \$17,897 billion by 2030, the Precision Agriculture market is estimated to account for nearly 0.1% of the total market value.

Which Will Be The Biggest Region In The Precision Agriculture Market In 2030

Asia-Pacific will be the largest region in the precision agriculture market in 2030, valued at \$6 billion. The market is expected to grow from \$3 billion in 2025 at a compound annual growth rate (CAGR) of 15%. The rapid growth can be attributed to increasing government support for smart farming initiatives, rising adoption of digital and connected agriculture technologies, expanding use of IoT-enabled sensors and GPS-based equipment, growing investments in agri-tech innovation, rapid mechanization of farming practices, and the rising focus on improving crop yields,



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optimizing resource utilization, and strengthening food security across the region.

Which Will Be The Largest [Country In The Global Precision Agriculture Market In 2030?](#)

The USA will be the largest country in the precision agriculture market in 2030, valued at \$4 billion. The market is expected to grow from \$3 billion in 2025 at a compound annual growth rate (CAGR) of 10%. The strong growth can be attributed to rising adoption of GPS-guided machinery and variable

rate technology, increasing deployment of IoT-enabled sensors and farm management software, expanding investments in agri-tech innovation and digital farming platforms, growing demand for data-driven crop and soil monitoring solutions, and continuous upgrades in smart irrigation, automation, and precision equipment across large-scale commercial farming operations throughout the country.

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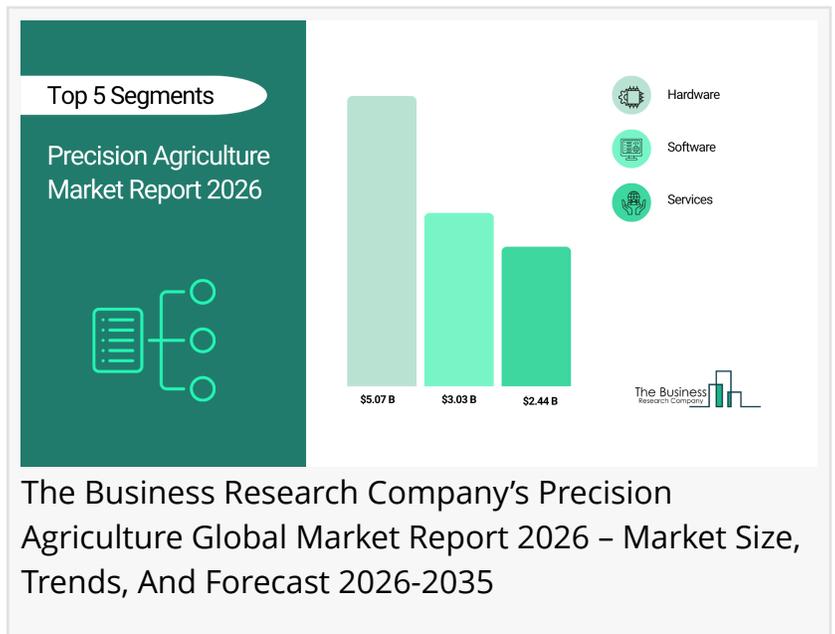
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What Will Be Largest Segment In The Precision Agriculture Market In 2030?

The precision agriculture market is segmented by component into hardware, software, and services. The hardware market will be the largest segment of the precision agriculture market segmented by component, accounting for 47% or \$8 billion of the total in 2030. The hardware market will be supported by the rising adoption of GPS-enabled tractors and harvesters, increasing deployment of drones and remote sensing equipment, growing installation of soil and crop monitoring sensors, expanding use of automated irrigation and variable rate application systems, continuous technological advancements in agricultural machinery, and increasing investments in modernizing farm equipment to enhance productivity, efficiency, and yield optimization.

The precision agriculture market is segmented by technology into guidance technology, remote sensing technology, and variable-rate technology.

The precision agriculture market is segmented by application into yield monitoring, field mapping telematics, crop scouting, weather tracking and forecasting, inventory management, farm labor management, and other applications.



What Is The Expected CAGR For The Precision Agriculture Market Leading Up To 2030?

The expected CAGR for the precision agriculture market leading up to 2030 is 13%.

What Will Be The Growth Driving Factors In The Global Precision Agriculture Market In The Forecast Period?

The rapid growth of the global precision agriculture market leading up to 2030 will be driven by advancements that are expected to reshape farm management practices, agricultural productivity models, sustainability frameworks, and digital farming innovation across global agritech ecosystems.

Rapid Adoption of AI, IoT, Data Analytics, and Smart Farming Technologies - The rapid adoption of AI, IoT, data analytics, and smart farming technologies is expected to become a key growth driver for the precision agriculture market by 2030. The accelerating integration of AI, IoT sensors, GPS-enabled machinery, drones, robotics, and big-data analytics is fundamentally transforming agricultural productivity and operational efficiency. These technologies enable real-time crop monitoring, predictive yield modeling, automated machinery control, and precision input management, significantly improving farm profitability and sustainability. Continuous advancements in smart farming platforms and declining sensor costs are driving widespread adoption across large commercial farms and emerging smallholder segments, positioning digital transformation as the primary structural growth engine of the precision agriculture market. As a result, the rapid adoption of AI, IoT, data analytics, and smart farming technologies is anticipated to contribute to 2.9% annual growth in the market.

Rising Demand for Sustainable Agriculture and Resource Optimization Amid Climate Pressure - The rising demand for sustainable agriculture and resource optimization amid climate pressure is expected to emerge as a major factor driving the expansion of the precision agriculture market by 2030. Escalating concerns regarding climate change, water scarcity, soil degradation, and environmental sustainability are compelling farmers to adopt precision-based farming solutions. Precision agriculture enables optimized irrigation, reduced fertilizer and pesticide usage, lower carbon footprint, and improved soil health, supporting regulatory compliance and eco-friendly farming practices. Government sustainability mandates and global food security initiatives are further accelerating adoption, making resource efficiency and sustainability imperatives a core demand catalyst for market growth. Consequently, the rising demand for sustainable agriculture and resource optimization amid climate pressure is projected to contribute to around 2.2% annual growth in the market.

Growing Labor Shortages and Strong Government Incentives for Farm Automation - The growing labor shortages and strong government incentives for farm automation is expected to act as a key growth catalyst for the precision agriculture market by 2030. Increasing agricultural labor shortages, rising wage pressures, and aging farmer populations are significantly accelerating demand for automated farming systems. Autonomous tractors, robotic harvesters, drone-based monitoring, and AI-driven machinery are helping farms overcome workforce constraints while improving productivity. Additionally, government subsidies, tax incentives, and modernization

grants across North America, Europe, and Asia-Pacific are reducing technology adoption barriers, positioning labor efficiency and policy-driven automation as strong market growth enablers. Therefore, the growing labor shortages and strong government incentives for farm automation is projected to contribute to approximately 1.7% annual growth in the market.

Access The Detailed Precision Agriculture Report Here

https://www.thebusinessresearchcompany.com/report/precision-agriculture-global-market-report?utm_source=EINPresswire&utm_medium=Paid&utm_campaign=Mar_PR

What Are The Key Growth Opportunities In The Precision Agriculture Market In 2030?

The most significant growth opportunities are anticipated in the hardware market, the software market, and the service market. Collectively, these segments are projected to contribute over \$7 billion in market value by 2030, driven by increasing adoption of smart farming technologies, rising deployment of IoT-enabled sensors and connected equipment, advancements in data analytics and artificial intelligence for crop management, growing demand for real-time farm monitoring and decision-support tools, and expanding investments in digital agriculture platforms. This surge reflects the accelerating focus on improving farm productivity, optimizing resource utilization, enhancing crop yield predictability, and supporting sustainable agricultural practices, fuelling transformative growth within the broader precision agriculture and smart farming industry.

The hardware market is projected to grow by \$2 billion, software market by \$3 billion, and the service market by \$2 billion over the next five years from 2025 to 2030.

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