

Global Smart Agriculture Supply, Demand and Key Producers, 2026-2032

<https://marketpublishers.com/r/G83296B8AB5BEN.html>

Date: January 2026

Pages: 133

Price: US\$ 4,480.00 (Single User License)

ID: G83296B8AB5BEN

Abstracts

The global Smart Agriculture market size is expected to reach \$ 27045 million by 2032, rising at a market growth of 15.6% CAGR during the forecast period (2026-2032). Smart Agriculture refers to a comprehensive set of digital and intelligent technologies and solution deliveries that re-engineer agricultural production and farm operations through an integrated closed loop of sensing, analytics, decisioning, execution, and feedback. It connects equipment and operational terminals, in-field and in-barn sensing, remote-sensing and weather inputs, agronomic and operational models, farm management platforms, and automation capabilities to improve productivity, resource efficiency, and resilience. Policy-oriented research emphasizes the potential of agricultural digitalisation to address productivity, sustainability, and resilience challenges, while noting that infrastructure, governance, and skills materially affect real-world outcomes.

In product form, Smart Agriculture typically spans three layers: a device and execution layer (connected machinery, guidance and automation, variable-rate control, sensing and robotics), a data foundation and governance layer (aggregation, cleaning, standardisation, permissions and compliance), and an application and services layer (prescription generation, crop and livestock monitoring, yield and quality analytics, maintenance workflows, cost accounting, compliance and traceability). Compared with a narrower ?digital farming? scope, Smart Agriculture places greater emphasis on intelligent decisioning tightly coupled with automated execution across diverse environments, including open-field crops, controlled-environment production, livestock, and aquaculture.

Smart Agriculture is accelerating the shift from experience-driven management to data-driven, workflow-driven, and automation-enabled operations. As growers and service organisations face higher volatility in weather, persistent cost pressures, and structural labour constraints, the value proposition becomes increasingly outcome-based:

stabilising yields, improving input efficiency, and raising asset and labour productivity. At the same time, the enabling stack has matured?connectivity is more pervasive, cloud and edge computing can operationalise intelligence at scale, and remote sensing and AI tools are easier to embed into day-to-day execution?supporting a multi-year global upgrade cycle.

Commercialisation, however, remains constrained by structural risks. Agricultural data is fragmented and uneven in quality, interoperability across brands and platforms is still imperfect, and integration cost and delivery cycles can be substantial. Expectations around data rights, sharing boundaries, and compliance also influence trust and procurement decisions. Downstream demand is therefore shifting from point products to verifiable use-case packages, from visualisation and recordkeeping to prescription-driven closed-loop execution, and from one-time purchases to hybrid models combining subscriptions, tiered module upgrades, and service-led delivery. Vendors that can prove ROI with lower implementation friction and sustain continuous operational improvement are likely to differentiate most strongly.

This report studies the global Smart Agriculture demand, key companies, and key regions.

This report is a detailed and comprehensive analysis of the world market for Smart Agriculture, and provides market size (US\$ million) and Year-over-Year (YoY) growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of Smart Agriculture that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Smart Agriculture total market, 2021-2032, (USD Million)

Global Smart Agriculture total market by region & country, CAGR, 2021-2032, (USD Million)

U.S. VS China: Smart Agriculture total market, key domestic companies, and share, (USD Million)

Global Smart Agriculture revenue by player, revenue and market share 2021-2026, (USD Million)

Global Smart Agriculture total market by Type, CAGR, 2021-2032, (USD Million)

Global Smart Agriculture total market by Application, CAGR, 2021-2032, (USD Million)

This report profiles major players in the global Smart Agriculture market based on the following parameters - company overview, revenue, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Deere & Company, CNH Industrial N.V., AGCO Corporation, Kubota Corporation, Topcon Corporation, CLAAS KGaA mbH, BASF SE, Bayer AG, CORTEVA, INC., Syngenta Group Co., Ltd., etc.

This report also provides key insights about market drivers, restraints, opportunities,

new product launches or approvals.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the world Smart Agriculture market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), by player, by regions, by Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global Smart Agriculture Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Smart Agriculture Market, Segmentation by Type:

Hardware and Embedded Control

Software Platforms

Data Products

Others

Global Smart Agriculture Market, Segmentation by Solution:

End To End Farm Digitalization

Field Operations Systems

Monitoring and Analytics Systems

Others

Global Smart Agriculture Market, Segmentation by Key Hardware Form:

In Cab Terminals

Sensors and Gateways

Robotics and Automation Equipment

Others

Global Smart Agriculture Market, Segmentation by Automation Level:

Decision Support

Assisted Automation

Autonomous Operation

Others

Global Smart Agriculture Market, Segmentation by Application:

Planting Agriculture

Horticulture

Livestock Monitoring

Others

Companies Profiled:

Deere & Company

CNH Industrial N.V.

AGCO Corporation

Kubota Corporation

Topcon Corporation

CLAAS KGaA mbH

BASF SE

Bayer AG

CORTEVA, INC.

Syngenta Group Co., Ltd.

KWS SAAT SE & Co. KGaA

Yara International ASA

Ag Leader Technology

J.R. Simplot Company

Orbia Advance Corporation, S.A.B. de C.V.

SZ DJI Technology Co., Ltd.

XAG Co., Ltd.

Huawei Investment & Holding Co., Ltd.

Zoomlion Heavy Industry Science & Technology Co., Ltd.

Zhejiang Top Yunnong Technology Co., Ltd.

Key Questions Answered

1. How big is the global Smart Agriculture market?
2. What is the demand of the global Smart Agriculture market?
3. What is the year over year growth of the global Smart Agriculture market?
4. What is the total value of the global Smart Agriculture market?
5. Who are the Major Players in the global Smart Agriculture market?
6. What are the growth factors driving the market demand?

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