

# Global Digital Farming Market Size Study & Forecast, by Technology (Precision Agriculture, Remote Sensing and Monitoring), Application (Crops Management, Livestock Management) and Regional Forecasts 2025-2035

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## Abstracts

The Global Digital Farming Market is valued at approximately USD 25.87 billion in 2024 and is anticipated to expand at a CAGR of more than 11.50% throughout the forecast period 2025-2035. Digital farming—once perceived as an incremental extension of traditional agriculture—has rapidly transformed into a powerful, data-driven ecosystem capable of reshaping global food production. Leveraging real-time analytics, satellite-based intelligence, and predictive algorithms, digital farming systems empower producers to manage resources efficiently, reduce crop loss, and enhance productivity at scale. Rising global food demand, labor shortages, supply chain uncertainties, and climate extremities have compelled farmers and agribusinesses to adopt technology-backed farming models. As agricultural stakeholders work to modernize their operations, digital farming evolves from a value-added tool into a necessary infrastructure layer that underpins the agricultural economy of tomorrow.

The acceleration of remote sensing platforms, IoT-enabled farm devices, and connected machinery has meaningfully strengthened the adoption of digital farming systems across major agricultural regions. Producers are increasingly relying on multispectral imaging, soil-health monitoring, and autonomous advisory models to optimize irrigation schedules, nutrient cycles, and pest control programs. According to various agricultural digitalization initiatives across developing and developed nations, governments are aggressively investing in smart agriculture programs to enhance domestic food security and improve farmer profitability. Meanwhile, the rise of cloud-based farm management solutions, coupled with machine learning-driven decision engines, continues to unlock

new opportunities for stakeholders. However, the industry faces obstacles related to high integration costs, digital literacy gaps among small-scale farmers, and persistent data privacy concerns, which may restrain market expansion over the forecast period 2025-2035.

The detailed segments and sub-segments included in the report are:

By Technology:

Precision Agriculture

Remote Sensing and Monitoring

By Application:

Crops Management

Livestock Management

By Crop Type:

(All crop categories included under the study scope)

By Region:

North America

U.S.

Canada

Europe

UK

Germany

France

Spain

Italy

ROE

#### Asia Pacific

China

India

Japan

Australia

South Korea

RoAPAC

#### Latin America

Brazil

Mexico

#### Middle East & Africa

UAE

Saudi Arabia

South Africa

Rest of Middle East & Africa

Precision agriculture is expected to dominate the market through the forecast period, holding the largest share owing to its widespread integration in large-scale farming operations seeking to boost productivity and reduce operational inefficiencies. Utilizing integrated sensor networks, autonomous tractors, GPS-guided machinery, and variable-rate application tools, precision agriculture helps farmers execute granular decision-making in near real time. As climate variability increases and arable land declines, producers increasingly rely on precision solutions to maintain consistent output. Meanwhile, remote sensing and monitoring technologies are projected to experience rapid adoption, especially as satellite imaging, drone-based surveying, and AI-powered environmental analysis become more accessible and affordable to mid-sized farms worldwide.

Crops management currently leads in revenue contribution, representing the largest share of digital farming applications. The segment benefits from broad adoption across cereal, grain, fruit, and vegetable production—areas where data-driven models significantly improve yield forecasting and mitigate risk. Livestock management, though comparatively smaller, is emerging as one of the fastest-growing segments due to the introduction of wearable sensors, automated feeding systems, digital health monitoring, and genetic performance analytics. This dual-track progression illustrates a diversified portfolio within digital farming: crop management continues to dominate market revenue, while livestock management accelerates as technology becomes more deeply embedded in animal husbandry practices.

The key regions considered for the Global Digital Farming Market study include Asia Pacific, North America, Europe, Latin America, and the Middle East & Africa. North America held the largest share in 2025, supported by advanced farm mechanization, strong digital infrastructure, and aggressive adoption of AI-driven agricultural tools. Europe closely follows, driven by strict sustainability regulations, digital farm subsidies, and collective efforts to reduce environmental footprints. Asia Pacific is forecast to be the fastest-growing region, propelled by large-scale agricultural modernization in China and India, rising smart-farming startups, and supportive government strategies to strengthen food resilience. Latin America continues to expand digital agriculture initiatives across Brazil and Mexico, while the Middle East & Africa increasingly deploy precision solutions to address water scarcity and soil degradation challenges.

Major market players included in this report are:

Deere & Company

Trimble Inc.

AGCO Corporation

Bayer AG

CNH Industrial

Topcon Corporation

Raven Industries

Climate LLC

Granular Inc.

AgEagle Aerial Systems

Yara International

Hexagon Agriculture

Taranis

AgLeader Technology

Syngenta Group

Global Digital Farming Market Report Scope:

Historical Data – 2023, 2024

Base Year for Estimation – 2024

Forecast period – 2025-2035

Report Coverage – Revenue forecast, Company Ranking, Competitive Landscape, Growth factors, and Trends

Regional Scope – North America; Europe; Asia Pacific; Latin America; Middle East & Africa

Customization Scope – Free report customization (equivalent to up to 8 analysts' working hours) with purchase. Addition or alteration to country, regional & segment scope\*

The objective of the study is to define market sizes of different segments and countries in recent years and to project their values for the coming decade. The report integrates both qualitative and quantitative aspects of the industry, offering insights into key drivers and barriers that will define future growth. It further identifies micro-market opportunities for investors and provides a comprehensive assessment of the competitive landscape and product portfolios of major players. The detailed segments and sub-segments of the market are explained above.

Key Takeaways:

Market Estimates & Forecast for 10 years from 2025 to 2035.

Annualized revenues and regional-level analysis for each market segment.

Detailed analysis of the geographical landscape with country-level assessment.

Competitive landscape with information on major companies in the market.

Analysis of key business strategies and recommendations on future market approach.

Evaluation of the market's competitive structure.

Demand-side and supply-side market analysis.

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