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South Korea Smart Agriculture Market Size, Share, Trends and Forecast by Agriculture Type, Offering, Farm Size, and Region, 2026-2034

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Abstracts

The South Korea smart agriculture market size reached USD 384.4 Million in 2025. Looking forward, the market is expected to reach USD 753.8 Million by 2034, exhibiting a growth rate (CAGR) of 7.54 % during 2026-2034. The market is growing steadily, driven by the adoption of advanced technologies like IoT, AI, and automation to improve crop productivity and resource efficiency. Government initiatives, labor shortages, and rising food demand are accelerating this shift toward digital farming practices, contributing significantly to the expanding South Korea smart agriculture market share.

SOUTH KOREA SMART AGRICULTURE MARKET TRENDS:

Robust Government Initiatives and Policy Backing

The South Korean government plays a central role in accelerating smart agriculture through strategic planning, subsidies, and infrastructure development. Large-scale projects, such as the so-called Smart Farm Innovation Valley, provide farmers with training opportunities, research, and pilot technologies that promote their implementation throughout the country. Policies mainly centered where the Ministry of Agriculture, Food and Rural Affairs (MAFRA) and the Ministry of Science and ICT are based on the integration of digital with IoT, AI and big data. Both the smallholders and large-scale farmers are being driven to modernize operations by financial offers, such as grants and low-interest loans for smart equipment. These efforts not only boost productivity and sustainability but also create a supportive ecosystem for startups and agri-tech innovation, positioning policy support as a key driver of the South Korea smart agriculture market growth.

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Aging Rural Workforce and Labor Shortages

South Korea faces a serious challenge with its rapidly aging farming population, where a significant portion of farmers are over 65, and younger generations show little interest in traditional agriculture. This labor shortage is accelerating the shift toward automation and digital farming technologies. Smart agriculture solutions like automated irrigation, sensor-driven crop monitoring, drones, and AI-powered machinery reduce reliance on manual labor, making farming more efficient and less physically demanding. These technologies also make agriculture more appealing to younger, tech-savvy entrepreneurs, reversing rural decline. Government-supported education and relocation incentives for new farmers further encourage this transition. Thus, the need to address labor gaps and sustain productivity amidst demographic decline is a major force behind smart agriculture growth.

Advanced Technology and Digital Infrastructure

South Korea’s strong foundation in ICT, AI, and high-speed connectivity gives it a competitive edge in deploying smart farming solutions. The country’s expansive digital infrastructure enables real-time data collection through IoT sensors, satellite imaging, and precision monitoring systems. Farms now leverage AI algorithms to analyze weather patterns, optimize irrigation, detect diseases early, and enhance crop yields. Drones and automated machinery are becoming common in both field and vertical farming setups. Major tech firms like SK Telecom, KT, and Samsung are entering the agri-tech space, accelerating innovation and commercial availability. Combined with integrated data platforms and government-supported research and development (R&D), this ecosystem is transforming agriculture into a high-tech, data-driven sector, making digital innovation a critical growth engine.

SOUTH KOREA SMART AGRICULTURE MARKET SEGMENTATION:

IMARC Group provides an analysis of the key trends in each segment of the market, along with forecasts at the country and regional levels for 2026-2034. Our report has categorized the market based on agriculture type, offering, and farm size.

Agriculture Type Insights:

- Precision Farming
- Livestock Monitoring

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Smart Greenhouse

Others

The report has provided a detailed breakup and analysis of the market based on agriculture type. This includes precision farming, livestock monitoring, smart greenhouse, and others.

Offering Insights:

Hardware

Software

Service

A detailed breakup and analysis of the market based on the offerings have also been provided in the report. This includes hardware, software, and service.

Farm Size Insights:

Small

Medium

Large

A detailed breakup and analysis of the market based on the farm size have also been provided in the report. This includes small, medium, and large.

Regional Insights:

Seoul Capital Area

Yeongnam (Southeastern Region)

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Honam (Southwestern Region)

Hoseo (Central Region)

Others

The report has also provided a comprehensive analysis of all the major regional markets, which include Seoul Capital Area, Yeongnam (Southeastern Region), Honam (Southwestern Region), Hoseo (Central Region), and others.

COMPETITIVE LANDSCAPE:

The market research report has also provided a comprehensive analysis of the competitive landscape. Competitive analysis such as market structure, key player positioning, top winning strategies, competitive dashboard, and company evaluation quadrant has been covered in the report. Also, detailed profiles of all major companies have been provided.

KEY QUESTIONS ANSWERED IN THIS REPORT
How has the South Korea smart agriculture market performed so far and how will it perform in the coming years?
What is the breakup of the South Korea smart agriculture market on the basis of agriculture type?
What is the breakup of the South Korea smart agriculture market on the basis of offering?
What is the breakup of the South Korea smart agriculture market on the basis of farm size?
What is the breakup of the South Korea smart agriculture market on the basis of region?
What are the various stages in the value chain of the South Korea smart agriculture market?
What are the key driving factors and challenges in the South Korea smart agriculture market?
What is the structure of the South Korea smart agriculture market and who are the key players?
What is the degree of competition in the South Korea smart agriculture market?

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