Agriculture 4.0 Market to Reach USD 182.53 Billion by 2032 | Research by SNS Insider

The growing integration of IoT, AI, robotics, and automation in agriculture is significantly driving the expansion of the Agriculture 4.0 market.

AUSTIN, TX, UNITED STATES, December 3, 2024 /EINPresswire.com/ -- Market Size & Industry Insights

As Per the SNS Insider,"The Agriculture 4.0 Market Size was valued USD 67.80 Billion in 2023 and is Expected to reach USD 182.53 Billion by 2032, Growing at a CAGR of 11.63% over the Forecast 2024 to 2032."

Agriculture 4.0 Market Size & Trends Report

Key drivers of Agriculture 4.0 market growth are fueled by the integration of digital technologies like IoT, AI, robotics, and blockchain.

The Agriculture 4.0 market is primarily driven by the increasing demand for higher crop yields, labor shortages, and the rise of precision farming. The adoption of advanced technologies enables efficient resource management, optimized farm operations, and improved crop health. Innovations like drones, AI, and big data analytics allow farmers to make informed decisions and monitor crops in real time, enhancing productivity. Additionally, growing investments in agritech by public and private sectors are accelerating the shift to smart farming, contributing to the sector's overall growth.

Rapid Growth of Agriculture 4.0 Driven by Automation, Sustainability, and Technological Advancements

The Agriculture 4.0 market is experiencing rapid growth due to the increasing demand for automation, sustainability, and efficiency. Technologies such as IoT sensors, AI, and robotics are gaining popularity, helping farmers improve crop yields, reduce waste, and enhance overall farm management. With ongoing advancements in big data analytics, cloud computing, and blockchain, agriculture is becoming increasingly digitized, allowing farmers to optimize every

aspect of their operations.

Get a Sample PDF of Agriculture 4.0 Market (with Full TOC & Graphs) @
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SWOT Analysis of Key Players as follows:
- Mothive
- Cropx
- Arable
- AgriData
- Agrowatcher
- PrecisionHawk
- AgriBot
- Saga Robotics
- Robotics Plus
- Phytech
- Ceres Imaging

Key Technologies and Applications Fueling Growth in Agriculture 4.0

By Technology

The IoT and AI segments are set to lead the Agriculture 4.0 market, with IoT devices providing real-time monitoring and AI delivering predictive insights to enhance farming practices. These innovations are crucial in precision agriculture, helping farmers track crop health, soil moisture, and environmental conditions more effectively. Robotics and Blockchain are also expanding quickly, driven by rising automation and the demand for secure, transparent supply chains in agriculture.

By Application

Remote Monitoring and Crop Picking are the fastest-growing applications, driven by the use of drones, sensors, and automated harvesting systems that reduce labor costs and improve efficiency. Vertical Farming and Genetically Modified Crops are also experiencing rapid growth, as they offer solutions for food security and optimize land use in urban settings.

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KEY MARKET SEGMENTS:

By Technology
-Sensors
-IoT

-Big Data
-AI
-Cloud Computing
-Blockchain
-Robotics

By Application
-Picking Crops
-Milking Livestock
-Agrochemical Distribution
-Remote Monitoring
-Vertical Farming
-Genetically Modified Crops

Regional Insights on Agriculture 4.0 Market Growth

North America dominates the Agriculture 4.0 market, holding the largest market share in 2023, with the United States leading in the adoption of advanced agricultural technologies. Key players like John Deere, Corteva Agriscience, and Trimble are driving the integration of AI, robotics, and sustainability in farming practices. The region's robust investment in agritech startups, coupled with government support for sustainable farming initiatives, continues to propel growth. North America's emphasis on smart farming technologies ensures it remains at the forefront of the market throughout the forecast period.

Asia Pacific is the fastest-growing region in the Agriculture 4.0 market. Nations like China, India, Japan, and South Korea are rapidly adopting smart farming solutions due to industrialization, population growth, and rising food demands. In India and China, government-led precision farming initiatives, along with the integration of IoT and AI technologies, are set to boost agricultural productivity. The region is also experiencing significant growth in vertical farming and genetically modified crops, driven by companies like Agri-Tech East and iFarm, further fueling the sector's expansion.

Recent Development

John Deere Advances Private Network Deployments (October 30, 2024)John Deere continues expanding its private network infrastructure as part of its Industry 4.0 strategy, aiming for 80% mobile connectivity in new facilities. In 2024, the company opened eight new buildings with private networks, building on 18 existing ones.

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Future Growth

-Adoption of IoT and Sensors where IoT devices and sensors enable real-time monitoring of soil health, crop conditions, and weather.
-Automation and Robotics where drones, autonomous tractors, and robotic harvesters streamline operations and reduce labor costs.
-Data Analytics and AI where big data and AI optimize irrigation, fertilization, pest control, and crop yield predictions.
-Sustainability and Resource Efficiency where Agriculture 4.0 promotes water conservation, reduces chemical use, and enhances crop rotation.
-Government Support and Investments with governments funding smart farming initiatives and offering policy support for technology adoption.
-Increasing Demand for Food driven by the growing global population and the need for more efficient farming practices to meet food security needs.
-Precision Agriculture with advanced tools for planting, irrigation, and harvesting improving productivity and profitability.

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