AR in Agriculture Market Report by Solution (Hardware, Software, Services), Application (Outdoor Farming, Indoor Farming), and Region 2025-2033

Market Report | 2025-03-01 | 141 pages | IMARC Group

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Report description:

The global AR in agriculture market size reached USD 2.1 Million in 2024. Looking forward, IMARC Group expects the market to reach USD 20.4 Million by 2033, exhibiting a growth rate (CAGR) of 28.91% during 2025-2033. The widespread adoption of precision farming techniques to improve crop yields and farming efficiency, the rising demand for real-time, and location-specific data to maximize yields, and the advent of next-generation AR devices represent some of the key factors driving the market.

Augmented reality (AR) in agriculture refers to the integration of digital technology that superimposes a computer-generated image onto the user's view of the real world, thereby providing a composite view. It is an innovative technology that enhances users' perception and interaction with the physical world, creating an enriched and interactive agricultural environment. AR leverages digital models, simulations, animations, and other graphical representations to provide farmers with real-time data, facilitating better decision-making and greater productivity. The utilization of AR in agriculture involves diverse applications, such as crop monitoring, livestock management, agricultural machinery maintenance, and training farm labor. This technology enhances farmers' ability to visualize data, including crop growth patterns, soil conditions, weather forecasts, and livestock health indicators, directly in their physical environment. By doing so, it aids in interpreting complex farming data, optimizing resource allocation, and effectively handling unexpected situations. Additionally, AR in agriculture represents a transformative shift in farming operations, merging the gap between the physical and digital world, and providing an interactive and immersive farming experience.

AR in Agriculture Market Trends:
The escalating need for precision farming majorly drives the global market. With growing global food demands and dwindling arable land, precision farming techniques, such as AR have become increasingly critical to enhancing crop yields and farming efficiency. AR's ability to provide real-time, location-specific data allows farmers to manage resources effectively and maximize yields, this is impelling the demand on the global level. Along with this, AR facilitates advanced training and skill development, aiding in overcoming the challenge of an aging farming workforce and the consequential lack of technological expertise, which is

providing an impetus to the market. Also, the technology's increasing accessibility and affordability to farmers worldwide is fueled by the emergence of next-generation AR devices and notable advancements in machine learning and AI, thus significantly supporting the market. Another significant trend influencing the market is the rising adoption of AR by tech startups and farming equipment manufacturers. Apart from this, the integration of AR in farming equipment provides intuitive and interactive interfaces for farmers, enhancing equipment usability and efficiency. In addition, the rise in public-private partnerships for digitalizing the agricultural sector is fostering the development and deployment of AR technologies. Furthermore, the benefits offered by AR in modernizing agricultural practices and the growing support from governmental entities are creating a positive market outlook. Some of the other factors driving the market include rapid digitization and continual technological advancements.

Key Market Segmentation:
IMARC Group provides an analysis of the key trends in each segment of the global AR in agriculture market report, along with forecasts at the global, regional, and country levels from 2025-2033. Our report has categorized the market based on solution and application.

Solution Insights:

-Hardware
-AR Headsets and Smart Glasses
-AR-Based Heads Up Display (HUD)
-Software
-AR Development Packages
-Handheld and Mobile Device Apps
-Content Creation Software and Engines
-Services
-System Integration Services
-Content Services
-Others

The report has provided a detailed breakup and analysis of the AR in agriculture market based on the solution. This includes hardware (AR headsets and smart glasses and AR-based heads up display-HUD), software (AR development packages, handheld and mobile device apps, and content creation software and engines), and services (system integration services, content services, and others). According to the report, software represented the largest segment.

Application Insights:

-Outdoor Farming
-Precision Agriculture and Smart Farming
-Crop Maintenance
-Field Monitoring
-Smart Irrigation
-Livestock Monitoring
-Simulated Training
-Weather Tracking and Forecasting
-Indoor Farming

A detailed breakup and analysis of the AR in agriculture market based on application has also been provided in the report. This includes outdoor farming (crop maintenance, field monitoring, smart irrigation, livestock monitoring, simulated training, and

weather tracking and forecasting), and indoor farming. According to the report, indoor farming represented the largest segment.

Regional Insights:

-North America
-United States
-Canada
-Asia Pacific
-China
-Japan
-India
-South Korea
-Australia
-Indonesia
-Others
-Europe
-Germany
-France
-United Kingdom
-Italy
-Spain
-Russia
-Others
-Latin America
-Brazil
-Mexico
-Others
-Middle East and Africa

The report has also provided a comprehensive analysis of all the major regional markets, which include North America (the United States and Canada); Asia Pacific (China, Japan, India, South Korea, Australia, Indonesia, and others); Europe (Germany, France, the United Kingdom, Italy, Spain, Russia, and others); Latin America (Brazil, Mexico, and others); and the Middle East and Africa. According to the report, North America was the largest market for AR in agriculture. Some of the factors driving the North America AR in agriculture market included the growing need for precision farming, rapid digitization, continual technological advancements, etc.

Competitive Landscape:
The report has also provided a comprehensive analysis of the competitive landscape in the global AR in agriculture market. The detailed profiles of all major companies have been provided. Some of the companies covered include Augmenta Holding (CNH Industrial N.V.), Nedap N.V., Think Digital, YeppAr Smart Solutions, etc. Kindly note that this only represents a partial list of companies, and the complete list has been provided in the report.

Key Questions Answered in This Report:
-How has the global AR in agriculture market performed so far, and how will it perform in the coming years?
-What are the drivers, restraints, and opportunities in the global AR in agriculture market?
-What is the impact of each driver, restraint, and opportunity on the global AR in agriculture market?
-What are the key regional markets?

-Which countries represent the most attractive AR in agriculture market?
-What is the breakup of the market based on the solution?
-Which is the most attractive solution in the AR in agriculture market?
-What is the breakup of the market based on the application?
-Which is the most attractive application in the AR in agriculture market?
-What is the competitive structure of the global AR in agriculture market?
-Who are the key players/companies in the global AR in agriculture market?

Table of Contents:

?1 Preface
2 Scope and Methodology
 2.1 Objectives of the Study
 2.2 Stakeholders
 2.3 Data Sources
  2.3.1 Primary Sources
  2.3.2 Secondary Sources
 2.4 Market Estimation
  2.4.1 Bottom-Up Approach
  2.4.2 Top-Down Approach
 2.5 Forecasting Methodology
3 Executive Summary
4 Introduction
 4.1 Overview
 4.2 Key Industry Trends
5 Global AR in Agriculture Market
 5.1 Market Overview
 5.2 Market Performance
 5.3 Impact of COVID-19
 5.4 Market Forecast
6 Market Breakup by Solution
 6.1 Hardware
  6.1.1 Market Trends
  6.1.2 Key Segments
   6.1.2.1 AR Headsets and Smart Glasses
   6.1.2.2 AR-Based Heads Up Display (HUD)
  6.1.3 Market Forecast
 6.2 Software
  6.2.1 Market Trends
  6.2.2 Key Segments
   6.2.2.1 AR Development Packages
   6.2.2.2 Handheld and Mobile Device Apps
   6.2.2.3 Content Creation Software and Engines
  6.2.3 Market Forecast
 6.3 Service
  6.3.1 Market Trends
  6.3.2 Key Segments

6.3.2.1 System Integration Services
6.3.2 2 Content Services
6.3.2.3 Others
6.3.3 Market Forecast
7 Market Breakup by Application
7.1 Outdoor Farming
7.1.1 Market Trends
7.1.2 Key Segments
7.1.2.1 Precision Agriculture and Smart Farming
7.1.2.2 Crop Maintenance
7.1.2.3 Field Monitoring
7.1.2.4 Smart Irrigation
7.1.2.5 Livestock Monitoring
7.1.2.6 Simulated Training
7.1.2.7 Weather Tracking and Forecasting
7.1.3 Market Forecast
7.2 Indoor Farming
7.2.1 Market Trends
7.2.2 Market Forecast
8 Market Breakup by Region
8.1 North America
8.1.1 United States
8.1.1.1 Market Trends
8.1.1.2 Market Forecast
8.1.2 Canada
8.1.2.1 Market Trends
8.1.2.2 Market Forecast
8.2 Asia-Pacific
8.2.1 China
8.2.1.1 Market Trends
8.2.1.2 Market Forecast
8.2.2 Japan
8.2.2.1 Market Trends
8.2.2.2 Market Forecast
8.2.3 India
8.2.3.1 Market Trends
8.2.3.2 Market Forecast
8.2.4 South Korea
8.2.4.1 Market Trends
8.2.4.2 Market Forecast
8.2.5 Australia
8.2.5.1 Market Trends
8.2.5.2 Market Forecast
8.2.6 Indonesia
8.2.6.1 Market Trends
8.2.6.2 Market Forecast
8.2.7 Others

8.2.7.1 Market Trends
8.2.7.2 Market Forecast
8.3 Europe
8.3.1 Germany
8.3.1.1 Market Trends
8.3.1.2 Market Forecast
8.3.2 France
8.3.2.1 Market Trends
8.3.2.2 Market Forecast
8.3.3 United Kingdom
8.3.3.1 Market Trends
8.3.3.2 Market Forecast
8.3.4 Italy
8.3.4.1 Market Trends
8.3.4.2 Market Forecast
8.3.5 Spain
8.3.5.1 Market Trends
8.3.5.2 Market Forecast
8.3.6 Russia
8.3.6.1 Market Trends
8.3.6.2 Market Forecast
8.3.7 Others
8.3.7.1 Market Trends
8.3.7.2 Market Forecast
8.4 Latin America
8.4.1 Brazil
8.4.1.1 Market Trends
8.4.1.2 Market Forecast
8.4.2 Mexico
8.4.2.1 Market Trends
8.4.2.2 Market Forecast
8.4.3 Others
8.4.3.1 Market Trends
8.4.3.2 Market Forecast
8.5 Middle East and Africa
8.5.1 Market Trends
8.5.2 Market Breakup by Country
8.5.3 Market Forecast
9 Drivers, Restraints, and Opportunities
9.1 Overview
9.2 Drivers
9.3 Restraints
9.4 Opportunities
10 Value Chain Analysis
11 Porters Five Forces Analysis
11.1 Overview
11.2 Bargaining Power of Buyers

11.3 Bargaining Power of Suppliers
11.4 Degree of Competition
11.5 Threat of New Entrants
11.6 Threat of Substitutes
12 Price Analysis
13 Competitive Landscape
13.1 Market Structure
13.2 Key Players
13.3 Profiles of Key Players
13.3.1 Augmenta Holding (CNH Industrial N.V.)
13.3.1.1 Company Overview
13.3.1.2 Product Portfolio
13.3.2 Nedap N.V.
13.3.2.1 Company Overview
13.3.2.2 Product Portfolio
13.3.3 Think Digital
13.3.3.1 Company Overview
13.3.3.2 Product Portfolio
13.3.4 YeppAr Smart Solutions
13.3.4.1 Company Overview
13.3.4.2 Product Portfolio

Kindly note that this only represents a partial list of companies, and the complete list has been provided in the report.

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