

AI in Agriculture Market by Offering (Software, Hardware, AI-as-a-Service, Services), Technology (Machine Learning, Computer Vision, Predictive Analytics), Application (Precision Farming, Agriculture Robots, Livestock Monitoring, Drone Analytics, Labor Management, and Others), and Region - 2023-2028

<https://marketpublishers.com/r/A67D8BCAE9A8EN.html>

Date: January 2023

Pages: 143

Price: US\$ 2,499.00 (Single User License)

ID: A67D8BCAE9A8EN

Abstracts

The global AI in agriculture market size reached US\$ 1.46 Billion in 2022. Looking forward, IMARC Group expects the market to reach US\$ 5.33 Billion by 2028, exhibiting a growth rate (CAGR) of 23.49% during 2023-2028.

Artificial intelligence (AI) in agriculture is used to detect diseases in plants, pests, and poor nutrition in farms. It assists in providing real-time monitoring of the conditions of water, ambient air and crops, water usage, temperature and harvesting time. It also facilitates farmers in reducing the use of pesticides, herbicides, and fertilizers, increasing farm production, minimizing farm drudgery, and lowering crop production costs. At present, due to the increasing awareness among individuals about food safety, AI is finding application in agriculture across the globe.

AI in Agriculture Market Trends:

At present, the increasing number of farming activities is resulting in the growing adoption of AI in agriculture to enhance crop production. This represents one of the major factors augmenting the growth of the market around the world. Moreover, there is a shift towards the automation of farming activities, such as plowing, harrowing, planting, harvesting, and tilling. Additionally, the integration of AI in agricultural applications, including livestock monitoring, smart greenhouse, and precision farming

for ensuring minimal manual intervention and constant monitoring of crops, is contributing to the market growth. In addition, the rising usage of farming robots helps farmers handle equipment and increase the accuracy of farming. They also help improve the quality and efficiency of yield and minimize reliance on manual labor. Apart from this, various financial institutions are providing credit to farmers at low-interest rates for purchasing smart agricultural machinery incorporated with AI, which is offering lucrative growth opportunities to market players operating in the industry. Furthermore, extensive investments by governing authorities of numerous countries for establishing digital farming infrastructure in rural areas are anticipated to strengthen the growth of the market in the coming years.

Key Market Segmentation:

IMARC Group provides an analysis of the key trends in each sub-segment of the global AI in agriculture market report, along with forecasts at the global, regional and country level from 2023-2028. Our report has categorized the market based on offering, technology and application.

Breakup by Offering:

- Software
- Hardware
- AI-as-a-Service
- Services

Breakup by Technology:

- Machine Learning
- Computer Vision
- Predictive Analytics

Breakup by Application:

- Precision Farming
- Agriculture Robots
- Livestock Monitoring
- Drone Analytics
- Labor Management
- Others

Breakup by Region:

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

Competitive Landscape:

The competitive landscape of the industry has also been examined along with the profiles of the key players being A.A.A Taranis Visual Ltd., Ag Leader Technology, AgEagle Aerial Systems Inc., Bayer AG, Deere & Company, Gamaya, Granular Inc. (DuPont de Nemours, Inc.), International Business Machines Corporation, Raven Industries Inc., Trimble Inc., Oracle Corporation and Wipro Limited. 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

1. What was the size of the global AI in agriculture market in 2022?
2. What is the expected growth rate of the global AI in agriculture market during

2023-2028?

3. What are the key factors driving the global AI in agriculture market?
4. What has been the impact of COVID-19 on the global AI in agriculture market?
5. What is the breakup of the global AI in agriculture market based on the offering?
6. What is the breakup of the global AI in agriculture market based on the technology?
7. What is the breakup of the global AI in agriculture market based on the application?
8. What are the key regions in the global AI in agriculture market?
9. Who are the key players/companies in the global AI in agriculture market?

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 AI 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 OFFERING

- 6.1 Software
 - 6.1.1 Market Trends
 - 6.1.2 Market Forecast
- 6.2 Hardware
 - 6.2.1 Market Trends
 - 6.2.2 Market Forecast
- 6.3 AI-as-a-Service

- 6.3.1 Market Trends
- 6.3.2 Market Forecast
- 6.4 Services
 - 6.4.1 Market Trends
 - 6.4.2 Market Forecast

7 MARKET BREAKUP BY TECHNOLOGY

- 7.1 Machine Learning
 - 7.1.1 Market Trends
 - 7.1.2 Market Forecast
- 7.2 Computer Vision
 - 7.2.1 Market Trends
 - 7.2.2 Market Forecast
- 7.3 Predictive Analytics
 - 7.3.1 Market Trends
 - 7.3.2 Market Forecast

8 MARKET BREAKUP BY APPLICATION

- 8.1 Precision Farming
 - 8.1.1 Market Trends
 - 8.1.2 Market Forecast
- 8.2 Agriculture Robots
 - 8.2.1 Market Trends
 - 8.2.2 Market Forecast
- 8.3 Livestock Monitoring
 - 8.3.1 Market Trends
 - 8.3.2 Market Forecast
- 8.4 Drone Analytics
 - 8.4.1 Market Trends
 - 8.4.2 Market Forecast
- 8.5 Labor Management
 - 8.5.1 Market Trends
 - 8.5.2 Market Forecast
- 8.6 Others
 - 8.6.1 Market Trends
 - 8.6.2 Market Forecast

9 MARKET BREAKUP BY REGION

9.1 North America

9.1.1 United States

9.1.1.1 Market Trends

9.1.1.2 Market Forecast

9.1.2 Canada

9.1.2.1 Market Trends

9.1.2.2 Market Forecast

9.2 Asia-Pacific

9.2.1 China

9.2.1.1 Market Trends

9.2.1.2 Market Forecast

9.2.2 Japan

9.2.2.1 Market Trends

9.2.2.2 Market Forecast

9.2.3 India

9.2.3.1 Market Trends

9.2.3.2 Market Forecast

9.2.4 South Korea

9.2.4.1 Market Trends

9.2.4.2 Market Forecast

9.2.5 Australia

9.2.5.1 Market Trends

9.2.5.2 Market Forecast

9.2.6 Indonesia

9.2.6.1 Market Trends

9.2.6.2 Market Forecast

9.2.7 Others

9.2.7.1 Market Trends

9.2.7.2 Market Forecast

9.3 Europe

9.3.1 Germany

9.3.1.1 Market Trends

9.3.1.2 Market Forecast

9.3.2 France

9.3.2.1 Market Trends

9.3.2.2 Market Forecast

9.3.3 United Kingdom

- 9.3.3.1 Market Trends
- 9.3.3.2 Market Forecast
- 9.3.4 Italy
 - 9.3.4.1 Market Trends
 - 9.3.4.2 Market Forecast
- 9.3.5 Spain
 - 9.3.5.1 Market Trends
 - 9.3.5.2 Market Forecast
- 9.3.6 Russia
 - 9.3.6.1 Market Trends
 - 9.3.6.2 Market Forecast
- 9.3.7 Others
 - 9.3.7.1 Market Trends
 - 9.3.7.2 Market Forecast
- 9.4 Latin America
 - 9.4.1 Brazil
 - 9.4.1.1 Market Trends
 - 9.4.1.2 Market Forecast
 - 9.4.2 Mexico
 - 9.4.2.1 Market Trends
 - 9.4.2.2 Market Forecast
 - 9.4.3 Others
 - 9.4.3.1 Market Trends
 - 9.4.3.2 Market Forecast
- 9.5 Middle East and Africa
 - 9.5.1 Market Trends
 - 9.5.2 Market Breakup by Country
 - 9.5.3 Market Forecast

10 SWOT ANALYSIS

- 10.1 Overview
- 10.2 Strengths
- 10.3 Weaknesses
- 10.4 Opportunities
- 10.5 Threats

11 VALUE CHAIN ANALYSIS

12 PORTERS FIVE FORCES ANALYSIS

- 12.1 Overview
- 12.2 Bargaining Power of Buyers
- 12.3 Bargaining Power of Suppliers
- 12.4 Degree of Competition
- 12.5 Threat of New Entrants
- 12.6 Threat of Substitutes

13 PRICE ANALYSIS

14 COMPETITIVE LANDSCAPE

- 14.1 Market Structure
- 14.2 Key Players
- 14.3 Profiles of Key Players
 - 14.3.1 A.A. A Taranis Visual Ltd.
 - 14.3.1.1 Company Overview
 - 14.3.1.2 Product Portfolio
 - 14.3.2 Ag Leader Technology
 - 14.3.2.1 Company Overview
 - 14.3.2.2 Product Portfolio
 - 14.3.3 AgEagle Aerial Systems Inc.
 - 14.3.3.1 Company Overview
 - 14.3.3.2 Product Portfolio
 - 14.3.3.3 Financials
 - 14.3.4 Bayer AG
 - 14.3.4.1 Company Overview
 - 14.3.4.2 Product Portfolio
 - 14.3.4.3 Financials
 - 14.3.4.4 SWOT Analysis
 - 14.3.5 Deere & Company
 - 14.3.5.1 Company Overview
 - 14.3.5.2 Product Portfolio
 - 14.3.5.3 Financials
 - 14.3.5.4 SWOT Analysis
 - 14.3.6 Gamaya
 - 14.3.6.1 Company Overview
 - 14.3.6.2 Product Portfolio

14.3.7 Granular Inc. (DuPont de Nemours, Inc.)

14.3.7.1 Company Overview

14.3.7.2 Product Portfolio

14.3.8 International Business Machines Corporation

14.3.8.1 Company Overview

14.3.8.2 Product Portfolio

14.3.8.3 Financials

14.3.8.4 SWOT Analysis

14.3.9 Raven Industries Inc.

14.3.9.1 Company Overview

14.3.9.2 Product Portfolio

14.3.10 Trimble Inc.

14.3.10.1 Company Overview

14.3.10.2 Product Portfolio

14.3.10.3 Financials

14.3.10.4 SWOT Analysis

14.3.11 Oracle Corporation

14.3.11.1 Company Overview

14.3.11.2 Product Portfolio

14.3.11.3 Financials

14.3.11.4 SWOT Analysis

14.3.12 Wipro Limited

14.3.12.1 Company Overview

14.3.12.2 Product Portfolio

14.3.12.3 Financials

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

List Of Tables

LIST OF TABLES

Table 1: Global: AI in Agriculture Market: Key Industry Highlights, 2022 & 2028

Table 2: Global: AI in Agriculture Market Forecast: Breakup by Offering (in Million US\$), 2023-2028

Table 3: Global: AI in Agriculture Market Forecast: Breakup by Technology (in Million US\$), 2023-2028

Table 4: Global: AI in Agriculture Market Forecast: Breakup by Application (in Million US\$), 2023-2028

Table 5: Global: AI in Agriculture Market Forecast: Breakup by Region (in Million US\$), 2023-2028

Table 6: Global: AI in Agriculture Market: Competitive Structure

Table 7: Global: AI in Agriculture Market: Key Players

List Of Figures

LIST OF FIGURES

Figure 1: Global: AI in Agriculture Market: Major Drivers and Challenges

Figure 2: Global: AI in Agriculture Market: Sales Value (in Billion US\$), 2017-2022

Figure 3: Global: AI in Agriculture Market Forecast: Sales Value (in Billion US\$), 2023-2028

Figure 4: Global: AI in Agriculture Market: Breakup by Offering (in %), 2022

Figure 5: Global: AI in Agriculture Market: Breakup by Technology (in %), 2022

Figure 6: Global: AI in Agriculture Market: Breakup by Application (in %), 2022

Figure 7: Global: AI in Agriculture Market: Breakup by Region (in %), 2022

Figure 8: Global: AI in Agriculture (Software) Market: Sales Value (in Million US\$), 2017 & 2022

Figure 9: Global: AI in Agriculture (Software) Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 10: Global: AI in Agriculture (Hardware) Market: Sales Value (in Million US\$), 2017 & 2022

Figure 11: Global: AI in Agriculture (Hardware) Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 12: Global: AI in Agriculture (AI-as-a-Service) Market: Sales Value (in Million US\$), 2017 & 2022

Figure 13: Global: AI in Agriculture (AI-as-a-Service) Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 14: Global: AI in Agriculture (Services) Market: Sales Value (in Million US\$), 2017 & 2022

Figure 15: Global: AI in Agriculture (Services) Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 16: Global: AI in Agriculture (Machine Learning) Market: Sales Value (in Million US\$), 2017 & 2022

Figure 17: Global: AI in Agriculture (Machine Learning) Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 18: Global: AI in Agriculture (Computer Vision) Market: Sales Value (in Million US\$), 2017 & 2022

Figure 19: Global: AI in Agriculture (Computer Vision) Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 20: Global: AI in Agriculture (Predictive Analytics) Market: Sales Value (in Million US\$), 2017 & 2022

Figure 21: Global: AI in Agriculture (Predictive Analytics) Market Forecast: Sales Value

(in Million US\$), 2023-2028

Figure 22: Global: AI in Agriculture (Precision Farming) Market: Sales Value (in Million US\$), 2017 & 2022

Figure 23: Global: AI in Agriculture (Precision Farming) Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 24: Global: AI in Agriculture (Agriculture Robots) Market: Sales Value (in Million US\$), 2017 & 2022

Figure 25: Global: AI in Agriculture (Agriculture Robots) Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 26: Global: AI in Agriculture (Livestock Monitoring) Market: Sales Value (in Million US\$), 2017 & 2022

Figure 27: Global: AI in Agriculture (Livestock Monitoring) Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 28: Global: AI in Agriculture (Drone Analytics) Market: Sales Value (in Million US\$), 2017 & 2022

Figure 29: Global: AI in Agriculture (Drone Analytics) Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 30: Global: AI in Agriculture (Labor Management) Market: Sales Value (in Million US\$), 2017 & 2022

Figure 31: Global: AI in Agriculture (Labor Management) Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 32: Global: AI in Agriculture (Other Applications) Market: Sales Value (in Million US\$), 2017 & 2022

Figure 33: Global: AI in Agriculture (Other Applications) Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 34: North America: AI in Agriculture Market: Sales Value (in Million US\$), 2017 & 2022

Figure 35: North America: AI in Agriculture Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 36: United States: AI in Agriculture Market: Sales Value (in Million US\$), 2017 & 2022

Figure 37: United States: AI in Agriculture Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 38: Canada: AI in Agriculture Market: Sales Value (in Million US\$), 2017 & 2022

Figure 39: Canada: AI in Agriculture Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 40: Asia-Pacific: AI in Agriculture Market: Sales Value (in Million US\$), 2017 & 2022

Figure 41: Asia-Pacific: AI in Agriculture Market Forecast: Sales Value (in Million US\$),

2023-2028

Figure 42: China: AI in Agriculture Market: Sales Value (in Million US\$), 2017 & 2022

Figure 43: China: AI in Agriculture Market Forecast: Sales Value (in Million US\$),
2023-2028

Figure 44: Japan: AI in Agriculture Market: Sales Value (in Million US\$), 2017 & 2022

Figure 45: Japan: AI in Agriculture Market Forecast: Sales Value (in Million US\$),
2023-2028

Figure 46: India: AI in Agriculture Market: Sales Value (in Million US\$), 2017 & 2022

Figure 47: India: AI in Agriculture Market Forecast: Sales Value (in Million US\$),
2023-2028

Figure 48: South Korea: AI in Agriculture Market: Sales Value (in Million US\$), 2017 &
2022

Figure 49: South Korea: AI in Agriculture Market Forecast: Sales Value (in Million US\$),
2023-2028

Figure 50: Australia: AI in Agriculture Market: Sales Value (in Million US\$), 2017 & 2022

Figure 51: Australia: AI in Agriculture Market Forecast: Sales Value (in Million US\$),
2023-2028

Figure 52: Indonesia: AI in Agriculture Market: Sales Value (in Million US\$), 2017 &
2022

Figure 53: Indonesia: AI in Agriculture Market Forecast: Sales Value (in Million US\$),
2023-2028

Figure 54: Others: AI in Agriculture Market: Sales Value (in Million US\$), 2017 & 2022

Figure 55: Others: AI in Agriculture Market Forecast: Sales Value (in Million US\$),
2023-2028

Figure 56: Europe: AI in Agriculture Market: Sales Value (in Million US\$), 2017 & 2022

Figure 57: Europe: AI in Agriculture Market Forecast: Sales Value (in Million US\$),
2023-2028

Figure 58: Germany: AI in Agriculture Market: Sales Value (in Million US\$), 2017 &
2022

Figure 59: Germany: AI in Agriculture Market Forecast: Sales Value (in Million US\$),
2023-2028

Figure 60: France: AI in Agriculture Market: Sales Value (in Million US\$), 2017 & 2022

Figure 61: France: AI in Agriculture Market Forecast: Sales Value (in Million US\$),
2023-2028

Figure 62: United Kingdom: AI in Agriculture Market: Sales Value (in Million US\$), 2017
& 2022

Figure 63: United Kingdom: AI in Agriculture Market Forecast: Sales Value (in Million
US\$), 2023-2028

Figure 64: Italy: AI in Agriculture Market: Sales Value (in Million US\$), 2017 & 2022

Figure 65: Italy: AI in Agriculture Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 66: Spain: AI in Agriculture Market: Sales Value (in Million US\$), 2017 & 2022

Figure 67: Spain: AI in Agriculture Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 68: Russia: AI in Agriculture Market: Sales Value (in Million US\$), 2017 & 2022

Figure 69: Russia: AI in Agriculture Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 70: Others: AI in Agriculture Market: Sales Value (in Million US\$), 2017 & 2022

Figure 71: Others: AI in Agriculture Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 72: Latin America: AI in Agriculture Market: Sales Value (in Million US\$), 2017 & 2022

Figure 73: Latin America: AI in Agriculture Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 74: Brazil: AI in Agriculture Market: Sales Value (in Million US\$), 2017 & 2022

Figure 75: Brazil: AI in Agriculture Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 76: Mexico: AI in Agriculture Market: Sales Value (in Million US\$), 2017 & 2022

Figure 77: Mexico: AI in Agriculture Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 78: Others: AI in Agriculture Market: Sales Value (in Million US\$), 2017 & 2022

Figure 79: Others: AI in Agriculture Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 80: Middle East and Africa: AI in Agriculture Market: Sales Value (in Million US\$), 2017 & 2022

Figure 81: Middle East and Africa: AI in Agriculture Market: Breakup by Country (in %), 2022

Figure 82: Middle East and Africa: AI in Agriculture Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 83: Global: AI in Agriculture Industry: SWOT Analysis

Figure 84: Global: AI in Agriculture Industry: Value Chain Analysis

Figure 85: Global: AI in Agriculture Industry: Porter's Five Forces Analysis

I would like to order

Product name: AI in Agriculture Market by Offering (Software, Hardware, AI-as-a-Service, Services), Technology (Machine Learning, Computer Vision, Predictive Analytics), Application (Precision Farming, Agriculture Robots, Livestock Monitoring, Drone Analytics, Labor Management, and Others), and Region - 2023-2028

Product link: <https://marketpublishers.com/r/A67D8BCAE9A8EN.html>

Price: US\$ 2,499.00 (Single User License / Electronic Delivery)

If you want to order Corporate License or Hard Copy, please, contact our Customer Service:

info@marketpublishers.com

Payment

To pay by Credit Card (Visa, MasterCard, American Express, PayPal), please, click button on product page <https://marketpublishers.com/r/A67D8BCAE9A8EN.html>

To pay by Wire Transfer, please, fill in your contact details in the form below:

First name:
Last name:
Email:
Company:
Address:
City:
Zip code:
Country:
Tel:
Fax:
Your message:

****All fields are required**

Customer signature _____

Please, note that by ordering from marketpublishers.com you are agreeing to our Terms & Conditions at <https://marketpublishers.com/docs/terms.html>

To place an order via fax simply print this form, fill in the information below
and fax the completed form to +44 20 7900 3970