

South & Central America Artificial Intelligence in Agriculture Market Forecast to 2030 - Regional Analysis - by Component (Hardware, Software, and Services) and Application (Precision Farming, Drone Analytics, Agriculture Robots, Livestock Monitoring, and Others)

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Abstracts

The South & Central America artificial intelligence in agriculture market was valued at US\$ 103.57 million in 2022 and is expected to reach US\$ 434.74 million by 2030; it is estimated to record a CAGR of 19.6% from 2022 to 2030.

Increasing Need for Real-Time Analytics in Agriculture Bolsters South & Central America Artificial Intelligence in Agriculture Market

Real-time data from agricultural farms enables timely decision-making for preventative measures. AI provides real-time data and insights on soil moisture, crop growth, and weather conditions, which helps farmers make informed decisions about planting, irrigation, and fertilization. For instance, using computer vision to monitor crop growth can help farmers identify issues such as disease and pest infestation early, allowing them to take action before any significant damage. Farmers in South & Central America employ sensors, drones, and soil samples in their farms to collect data related to soil moisture and nutrient levels. Farmers and producers in Brazil use high-tech instruments for data collection and analysis. The collection of the right data provides appropriate calculations and optimization of several operations, allowing more precise agriculture and faster decisions. For carrying out several agricultural operations, such as spraying pest-control chemicals or other compounds, the collection of real-time data is necessary.

The fluctuation in weather conditions has also surged the need for real-time analytics. Real-time weather monitoring assists in precise irrigation, reducing water wastage, and maximizing crop yield. It aids in effective pest control by monitoring weather conditions that favor pests, reducing the need for broad-spectrum pesticides. Thus, the increasing need for real-time analytics in agriculture drives the AI in agriculture market.

South & Central America Artificial Intelligence in Agriculture Market Overview

The SAM AI in agriculture market is segmented into Brazil, Argentina, and the Rest of SAM. The countries in SAM have abundant natural resources such as water, soil, and vegetation cover. Moreover, Brazil faces a unique problem in the form of Amazon deforestation, which has garnered unfavorable global attention. Brazil is experiencing tremendous issues such as climate change, workforce constraints, environmental concerns, shifting customer needs, and demand volatility. These elements, taken together, threaten overall Brazil's long-term growth. Brazilian agribusinesses are increasingly relying on digital and genomic breakthroughs to address these critical difficulties. Brazil now has over 1,700 agtech businesses working on novel blockchain, artificial intelligence, and drone technology to boost competitiveness.

Various players in the region are indulging in the launch of several AI technologies for agriculture. For example, in January 2024, DeepAgro launched AI-based crop selective weeder technology, SprAI. SprAI, a selective herbicide, can be sprayed in crop regions to prevent unnecessary waste. When compared to traditional spraying, SprAI technology can reduce pesticide use by 70% and environmental contamination by 45%. Thus, such focus on ag-tech business and the launch of AI-enabled agriculture technology propels the growth of AI in agriculture market.

South & Central America Artificial Intelligence in Agriculture Market Revenue and Forecast to 2030 (US\$ Million)

South & Central America Artificial Intelligence in Agriculture Market Segmentation

The South & Central America artificial intelligence in agriculture market is categorized into components, application, and country.

Based on component, the South & Central America artificial intelligence in agriculture market is categorized into hardware, software, and services. The software segment held the largest market share in 2022.

In terms of application, the South & Central America artificial intelligence in agriculture market is categorized into precision farming, drone analytics, agriculture robots, livestock monitoring, and others. The precision farming segment held the largest market share in 2022.

By country, the South & Central America artificial intelligence in agriculture market is segmented into Brazil, Argentina, and the Rest of South & Central America. Brazil dominated the South & Central America artificial intelligence in agriculture market share in 2022.

Deere & Co, Climate LLC, Gamaya SA, International Business Machines Corp, Microsoft Corp, Easytosee Agtech SL, and Taranis are some of the leading companies operating in the South & Central America artificial intelligence in agriculture market.

Contents

1. INTRODUCTION

- 1.1 The Insight Partners Research Report Guidance
- 1.2 Market Segmentation

2. EXECUTIVE SUMMARY

- 2.1 Key Insights
- 2.2 Market Attractiveness

3. RESEARCH METHODOLOGY

- 3.1 Coverage
- 3.2 Secondary Research
- 3.3 Primary Research

4. SOUTH & CENTRAL AMERICA ARTIFICIAL INTELLIGENCE IN AGRICULTURE MARKET LANDSCAPE

- 4.1 Overview
- 4.2 PEST Analysis
- 4.3 Ecosystem Analysis
 - 4.3.1 List of Vendors in the Value Chain

5. SOUTH & CENTRAL AMERICA ARTIFICIAL INTELLIGENCE IN AGRICULTURE MARKET - KEY MARKET DYNAMICS

- 5.1 Market Drivers
 - 5.1.1 Increasing Need for Real-Time Analytics in Agriculture
 - 5.1.2 Growing Government Support for Implementation of AI Solution
 - 5.1.3 Growing Use of Unmanned Ariel Vehicles (UAVs) in Farming
- 5.2 Restraints
 - 5.2.1 Shortage of Technically Skilled Labor
 - 5.2.2 High Implementation Cost of AI in Farming Equipment
- 5.3 Opportunity
 - 5.3.1 Increasing Smart Farming
 - 5.3.2 Potential Growth Opportunities in Developing Countries

5.4 Future Trend

5.4.1 Robotics and Automation in Agriculture

5.5 Impact of Drivers and Restraints:

6. ARTIFICIAL INTELLIGENCE IN AGRICULTURE MARKET - SOUTH & CENTRAL AMERICA ANALYSIS

6.1 Artificial Intelligence in Agriculture Market Revenue (US\$ Million), 2020-2030

6.2 Artificial Intelligence in Agriculture Market Forecast Analysis

7. SOUTH & CENTRAL AMERICA ARTIFICIAL INTELLIGENCE IN AGRICULTURE MARKET ANALYSIS - BY COMPONENT

7.1 Hardware

7.1.1 Overview

7.1.2 Hardware: Artificial Intelligence in Agriculture Market - Revenue and Forecast to 2030 (US\$ Million)

7.2 Software

7.2.1 Overview

7.2.2 Software: Artificial Intelligence in Agriculture Market - Revenue and Forecast to 2030 (US\$ Million)

7.3 Services

7.3.1 Overview

7.3.2 Services: Artificial Intelligence in Agriculture Market - Revenue and Forecast to 2030 (US\$ Million)

8. SOUTH & CENTRAL AMERICA ARTIFICIAL INTELLIGENCE IN AGRICULTURE MARKET ANALYSIS - BY APPLICATION

8.1 Precision Farming

8.1.1 Overview

8.1.2 Precision Farming: Artificial Intelligence in Agriculture Market - Revenue and Forecast to 2030 (US\$ Million)

8.2 Drone Analytics

8.2.1 Overview

8.2.2 Drone Analytics: Artificial Intelligence in Agriculture Market - Revenue and Forecast to 2030 (US\$ Million)

8.3 Agriculture Robots

8.3.1 Overview

8.3.2 Agriculture Robots: Artificial Intelligence in Agriculture Market - Revenue and Forecast to 2030 (US\$ Million)

8.4 Livestock Monitoring

8.4.1 Overview

8.4.2 Livestock Monitoring: Artificial Intelligence in Agriculture Market - Revenue and Forecast to 2030 (US\$ Million)

8.5 Others

8.5.1 Overview

8.5.2 Others: Artificial Intelligence in Agriculture Market - Revenue and Forecast to 2030 (US\$ Million)

9. SOUTH & CENTRAL AMERICA ARTIFICIAL INTELLIGENCE IN AGRICULTURE MARKET - COUNTRY ANALYSIS

9.1 South & Central America Artificial Intelligence in Agriculture Market Overview

9.1.1 South & Central America: Artificial Intelligence in Agriculture Market - Revenue and Forecast Analysis - by Country

9.1.1.1 South & Central America: Artificial Intelligence in Agriculture Market - Revenue and Forecast Analysis - by Country

9.1.1.2 Brazil: Artificial Intelligence in Agriculture Market - Revenue and Forecast to 2030 (US\$ Million)

9.1.1.2.1 Brazil: Artificial Intelligence in Agriculture Market Breakdown, by Component

9.1.1.2.2 Brazil: Artificial Intelligence in Agriculture Market Breakdown, by Application

9.1.1.3 Argentina: Artificial Intelligence in Agriculture Market - Revenue and Forecast to 2030 (US\$ Million)

9.1.1.3.1 Argentina: Artificial Intelligence in Agriculture Market Breakdown, by Component

9.1.1.3.2 Argentina: Artificial Intelligence in Agriculture Market Breakdown, by Application

9.1.1.4 Rest of South & Central America: Artificial Intelligence in Agriculture Market - Revenue and Forecast to 2030 (US\$ Million)

9.1.1.4.1 Rest of South & Central America: Artificial Intelligence in Agriculture Market Breakdown, by Component

9.1.1.4.2 Rest of South & Central America: Artificial Intelligence in Agriculture Market Breakdown, by Application

10. COMPETITIVE LANDSCAPE

- 10.1 Heat Map Analysis by Key Players
- 10.2 Company Positioning & Concentration

11. INDUSTRY LANDSCAPE

- 11.1 Overview
- 11.2 Market Initiative
- 11.3 Product Development
- 11.4 Mergers & Acquisitions

12. COMPANY PROFILES

- 12.1 Deere & Co
 - 12.1.1 Key Facts
 - 12.1.2 Business Description
 - 12.1.3 Products and Services
 - 12.1.4 Financial Overview
 - 12.1.5 SWOT Analysis
 - 12.1.6 Key Developments
- 12.2 Climate LLC
 - 12.2.1 Key Facts
 - 12.2.2 Business Description
 - 12.2.3 Products and Services
 - 12.2.4 Financial Overview
 - 12.2.5 SWOT Analysis
 - 12.2.6 Key Developments
- 12.3 Gamaya SA
 - 12.3.1 Key Facts
 - 12.3.2 Business Description
 - 12.3.3 Products and Services
 - 12.3.4 Financial Overview
 - 12.3.5 SWOT Analysis
 - 12.3.6 Key Developments
- 12.4 International Business Machines Corp
 - 12.4.1 Key Facts
 - 12.4.2 Business Description
 - 12.4.3 Products and Services
 - 12.4.4 Financial Overview

- 12.4.5 SWOT Analysis
- 12.4.6 Key Developments
- 12.5 Microsoft Corp
 - 12.5.1 Key Facts
 - 12.5.2 Business Description
 - 12.5.3 Products and Services
 - 12.5.4 Financial Overview
 - 12.5.5 SWOT Analysis
 - 12.5.6 Key Developments
- 12.6 Taranis
 - 12.6.1 Key Facts
 - 12.6.2 Business Description
 - 12.6.3 Products and Services
 - 12.6.4 Financial Overview
 - 12.6.5 SWOT Analysis
 - 12.6.6 Key Developments
- 12.7 Easytosee Agtech SL
 - 12.7.1 Key Facts
 - 12.7.2 Business Description
 - 12.7.3 Products and Services
 - 12.7.4 Financial Overview
 - 12.7.5 SWOT Analysis
 - 12.7.6 Key Developments

13. APPENDIX

- 13.1 Word Index
- 13.2 About The Insight Partners

List Of Tables

LIST OF TABLES

- Table 1. Artificial Intelligence in Agriculture Market Segmentation
- Table 2. List of Vendors
- Table 3. Artificial Intelligence in Agriculture Market - Revenue and Forecast to 2030 (US\$ Million)
- Table 4. Artificial Intelligence in Agriculture Market - Revenue and Forecast to 2030 (US\$ Million) - by Component
- Table 5. Artificial Intelligence in Agriculture Market - Revenue and Forecast to 2030 (US\$ Million) - by Application
- Table 6. South & Central America: Artificial Intelligence in Agriculture Market - Revenue and Forecast to 2030 (US\$ Million) - by Country
- Table 7. Brazil: Artificial Intelligence in Agriculture Market - Revenue and Forecast to 2030 (US\$ Million) - by Component
- Table 8. Brazil: Artificial Intelligence in Agriculture Market - Revenue and Forecast to 2030 (US\$ Million) - by Application
- Table 9. Argentina: Artificial Intelligence in Agriculture Market - Revenue and Forecast to 2030 (US\$ Million) - by Component
- Table 10. Argentina: Artificial Intelligence in Agriculture Market - Revenue and Forecast to 2030 (US\$ Million) - by Application
- Table 11. Rest of South & Central America: Artificial Intelligence in Agriculture Market - Revenue and Forecast to 2030 (US\$ Million) - by Component
- Table 12. Rest of South & Central America: Artificial Intelligence in Agriculture Market - Revenue and Forecast to 2030 (US\$ Million) - by Application
- Table 13. Company Positioning & Concentration
- Table 14. List of Abbreviation

List Of Figures

LIST OF FIGURES

- Figure 1. Artificial Intelligence in Agriculture Market Segmentation, by Country
- Figure 2. PEST Analysis
- Figure 3. Artificial Intelligence in Agriculture Market - Key Market Dynamics
- Figure 4. Impact Analysis of Drivers and Restraints
- Figure 5. Artificial Intelligence in Agriculture Market Revenue (US\$ Million), 2020-2030
- Figure 6. Artificial Intelligence in Agriculture Market Share (%) - by Component (2022 and 2030)
- Figure 7. Hardware: Artificial Intelligence in Agriculture Market - Revenue and Forecast to 2030 (US\$ Million)
- Figure 8. Software: Artificial Intelligence in Agriculture Market - Revenue and Forecast to 2030 (US\$ Million)
- Figure 9. Services: Artificial Intelligence in Agriculture Market - Revenue and Forecast to 2030 (US\$ Million)
- Figure 10. Artificial Intelligence in Agriculture Market Share (%) - by Application (2022 and 2030)
- Figure 11. Precision Farming: Artificial Intelligence in Agriculture Market - Revenue and Forecast to 2030 (US\$ Million)
- Figure 12. Drone Analytics: Artificial Intelligence in Agriculture Market - Revenue and Forecast to 2030 (US\$ Million)
- Figure 13. Agriculture Robots: Artificial Intelligence in Agriculture Market - Revenue and Forecast to 2030 (US\$ Million)
- Figure 14. Livestock Monitoring: Artificial Intelligence in Agriculture Market - Revenue and Forecast to 2030 (US\$ Million)
- Figure 15. Others: Artificial Intelligence in Agriculture Market - Revenue and Forecast to 2030 (US\$ Million)
- Figure 16. South & Central America: Artificial Intelligence in Agriculture Market, by Key Country - Revenue (2022) (US\$ Million)
- Figure 17. South & Central America: Artificial Intelligence in Agriculture Market Breakdown, by Key Countries, 2022 and 2030 (%)
- Figure 18. Brazil: Artificial Intelligence in Agriculture Market - Revenue and Forecast to 2030 (US\$ Million)
- Figure 19. Argentina: Artificial Intelligence in Agriculture Market - Revenue and Forecast to 2030 (US\$ Million)
- Figure 20. Rest of South & Central America: Artificial Intelligence in Agriculture Market - Revenue and Forecast to 2030 (US\$ Million)

Figure 21. Heat Map Analysis by Key Players

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