

Global IoT in Agriculture Market Size study, by System (Automation and control systems, Sensing and Monitoring Devices, Livestock Monitoring Hardware, Fish Farming Hardware, Smart Greenhouse Hardware, Software) by Farm Type (Large, Mid Size, Small Farms), by Application (Precision Farming, Livestock Monitoring, Smart Greenhouse, Fish Farm Monitoring) and Regional Forecasts 2022-2032

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Abstracts

Global IoT in Agriculture Market is valued approximately USD 30.72 billion in 2023 and is anticipated to grow with a healthy growth rate of more than 12.60% over the forecast period 2024-2032. The IoT in Agriculture used for connected devices, sensors, and technology solutions to enhance various agricultural processes and practices. These IoT technologies are employed to monitor, manage, and optimize agricultural operations, leading to improved efficiency, productivity, and sustainability in farming practices. Precision agriculture continues to gain momentum as farmers seek to optimize resource use and improve crop yields. IoT technologies enable precise monitoring and management of factors such as soil moisture, temperature, and nutrient levels, allowing for targeted interventions and more efficient farming practices. This trend highlights the evolution and diversification of the IoT in Agriculture market, driven by technological innovation, and the increasing adoption of digital solutions in the agricultural sector.

The growing global population and escalating food demand are significant drivers propelling the demand for Global IoT in the Agriculture Market. The Food and Agriculture Organization (FAO) of the United Nations (UN), it projected that in 2050, the

global population can spread 9.8 billion people and to feed the global population, food production need to be surge by 70% in 2050. Farmers are increasingly turning to IoT technologies to enhance agricultural productivity, optimize resource utilization, and improve crop yields. With the help of IoT devices such as sensors, drones, and smart irrigation systems, farmers can monitor vital factors such as soil moisture, temperature, and crop health in real-time. This enables them to make informed decisions, implement precision agriculture practices, and maximize the efficiency of their operations. Furthermore, IoT solutions facilitate predictive analytics, allowing farmers to anticipate and mitigate potential risks such as pests, diseases, and adverse weather conditions. However, high cost and a lack of infrastructure can stifle market growth between 2022 and 2032.

The key regions considered for the Global IoT in Agriculture Market study includes Asia Pacific, North America, Europe, Latin America, and Rest of the World. In 2023, Asia Pacific was the largest regional market and expected to develop at the fastest rate over the forecast period 2024-2032. With a large and rapidly growing population, countries in the Asia Pacific region face increasing pressure to enhance agricultural productivity and food security. IoT technologies offer solutions to optimize resource use, improve crop yields, and address the challenges of feeding growing urban populations. Governments in the region are actively promoting the adoption of digital technologies in agriculture through various initiatives, incentives, and investments. Countries such as India, China, and Japan have launched programs to support the development and deployment of IoT solutions in agriculture, driving Global IoT in Agriculture Market growth. For instance, in March 2024, the Union Minister of Agriculture announced that it has inaugurated an agriculture-integrated command and control center at Krishi Bhawan, Delhi to empower farmers in new dimension of digital technology.

Major market player included in this report are:

Climate LLC

Hitachi, Ltd

International Business Machines Corporation

Farmers Edge Inc.

Cisco Systems, Inc.

Trimble Inc.

Telit Corporate Group

SWIIM System, Ltd.

Decisive Farming Corp.

SlantRange, Inc.

The detailed segments and sub-segment of the market are explained below:

By System

- Automation and control systems
- Sensing and monitoring devices
- Livestock monitoring Hardware
- Fish farming hardware
- Smart greenhouse hardware
- Software

By Farm Type

- Large
- Mid Size
- Small Farms

By Application

- Precision farming
- Livestock monitoring
- Smart greenhouse
- Fish farm monitoring

By Region:

- North America
 - U.S.
 - Canada
- Europe
 - UK
 - Germany
 - France
 - Spain
 - Italy
- ROE
- Asia Pacific
 - China
 - India
 - Japan
 - Australia
 - South Korea
- RoAPAC

Latin America
Brazil
Mexico
Middle East & Africa
Saudi Arabia
South Africa
RoMEA

Years considered for the study are as follows:

Historical year – 2022

Base year – 2023

Forecast period – 2024 to 2032

Key Takeaways:

Market Estimates & Forecast for 10 years from 2022 to 2032.

Annualized revenues and regional level analysis for each market segment.

Detailed analysis of geographical landscape with Country level analysis of major regions.

Competitive landscape with information on major players in the market.

Analysis of key business strategies and recommendations on future market approach.

Analysis of competitive structure of the market.

Demand side and supply side analysis of the market.

Contents

CHAPTER 1. GLOBAL IOT IN AGRICULTURE MARKET DEFINITION AND RESEARCH ASSUMPTIONS

- 1.1. Research Objective
- 1.2. Market Definition
- 1.3. Research Assumptions
 - 1.3.1. Inclusion & Exclusion
 - 1.3.2. Limitations
 - 1.3.3. Supply Side Analysis
 - 1.3.3.1. Availability
 - 1.3.3.2. Infrastructure
 - 1.3.3.3. Regulatory Environment
 - 1.3.3.4. Market Competition
 - 1.3.3.5. Economic Viability (Consumer's Perspective)
 - 1.3.4. Demand Side Analysis
 - 1.3.4.1. Regulatory frameworks
 - 1.3.4.2. Technological Advancements
 - 1.3.4.3. Environmental Considerations
 - 1.3.4.4. Consumer Awareness & Acceptance
- 1.4. Estimation Methodology
- 1.5. Years Considered for the Study
- 1.6. Currency Conversion Rates

CHAPTER 2. EXECUTIVE SUMMARY

- 2.1. Global IoT in Agriculture Market Size & Forecast (2022- 2032)
- 2.2. Regional Summary
- 2.3. Segmental Summary
 - 2.3.1. By System
 - 2.3.2. By Farm Type
 - 2.3.3. By Application
- 2.4. Key Trends
- 2.5. Recession Impact
- 2.6. Analyst Recommendation & Conclusion

CHAPTER 3. GLOBAL IOT IN AGRICULTURE MARKET DYNAMICS

- 3.1. Market Drivers
- 3.2. Market Challenges
- 3.3. Market Opportunities

CHAPTER 4. GLOBAL IOT IN AGRICULTURE MARKET INDUSTRY ANALYSIS

- 4.1. Porter's 5 Force Model
 - 4.1.1. Bargaining Power of Suppliers
 - 4.1.2. Bargaining Power of Buyers
 - 4.1.3. Threat of New Entrants
 - 4.1.4. Threat of Substitutes
 - 4.1.5. Competitive Rivalry
 - 4.1.6. Futuristic Approach to Porter's 5 Force Model
 - 4.1.7. Porter's 5 Force Impact Analysis
- 4.2. PESTEL Analysis
 - 4.2.1. Political
 - 4.2.2. Economical
 - 4.2.3. Social
 - 4.2.4. Technological
 - 4.2.5. Environmental
 - 4.2.6. Legal
- 4.3. Top investment opportunity
- 4.4. Top winning strategies
- 4.5. Disruptive Trends
- 4.6. Industry Expert Perspective
- 4.7. Analyst Recommendation & Conclusion

CHAPTER 5. GLOBAL IOT IN AGRICULTURE MARKET SIZE & FORECASTS BY SYSTEM 2022-2032

- 5.1. Automation and control systems
- 5.2. Sensing and monitoring devices
- 5.3. Livestock monitoring Hardware
- 5.4. Fish farming hardware
- 5.5. Smart greenhouse hardware
- 5.6. Software

CHAPTER 6. GLOBAL IOT IN AGRICULTURE MARKET SIZE & FORECASTS BY FARM TYPE 2022-2032

- 6.1. Large
- 6.2. Mid Size
- 6.3. Small Farms

CHAPTER 7. GLOBAL IOT IN AGRICULTURE MARKET SIZE & FORECASTS BY APPLICATION 2022-2032

- 7.1. Precision farming
- 7.2. Livestock monitoring
- 7.3. Smart greenhouse
- 7.4. Fish farm monitoring

CHAPTER 8. GLOBAL IOT IN AGRICULTURE MARKET SIZE & FORECASTS BY REGION 2022-2032

- 8.1. North America IoT in Agriculture Market
 - 8.1.1. U.S. IoT in Agriculture Market
 - 8.1.1.1. System breakdown size & forecasts, 2022-2032
 - 8.1.1.2. Farm Type breakdown size & forecasts, 2022-2032
 - 8.1.1.3. Application breakdown size & forecasts, 2022-2032
 - 8.1.2. Canada IoT in Agriculture Market
- 8.2. Europe IoT in Agriculture Market
 - 8.2.1. U.K. IoT in Agriculture Market
 - 8.2.2. Germany IoT in Agriculture Market
 - 8.2.3. France IoT in Agriculture Market
 - 8.2.4. Spain IoT in Agriculture Market
 - 8.2.5. Italy IoT in Agriculture Market
 - 8.2.6. Rest of Europe IoT in Agriculture Market
- 8.3. Asia-Pacific IoT in Agriculture Market
 - 8.3.1. China IoT in Agriculture Market
 - 8.3.2. India IoT in Agriculture Market
 - 8.3.3. Japan IoT in Agriculture Market
 - 8.3.4. Australia IoT in Agriculture Market
 - 8.3.5. South Korea IoT in Agriculture Market
 - 8.3.6. Rest of Asia Pacific IoT in Agriculture Market
- 8.4. Latin America IoT in Agriculture Market
 - 8.4.1. Brazil IoT in Agriculture Market
 - 8.4.2. Mexico IoT in Agriculture Market

- 8.4.3. Rest of Latin America IoT in Agriculture Market
- 8.5. Middle East & Africa IoT in Agriculture Market
 - 8.5.1. Saudi Arabia IoT in Agriculture Market
 - 8.5.2. South Africa IoT in Agriculture Market
 - 8.5.3. Rest of Middle East & Africa IoT in Agriculture Market

CHAPTER 9. COMPETITIVE INTELLIGENCE

- 9.1. Key Company SWOT Analysis
 - 9.1.1. Company
 - 9.1.2. Company
 - 9.1.3. Company
- 9.2. Top Market Strategies
- 9.3. Company Profiles
 - 9.3.1. Climate LLC
 - 9.3.1.1. Key Information
 - 9.3.1.2. Overview
 - 9.3.1.3. Financial (Subject to Data Availability)
 - 9.3.1.4. Product Summary
 - 9.3.1.5. Market Strategies
 - 9.3.2. Hitachi, Ltd
 - 9.3.3. International Business Machines Corporation
 - 9.3.4. Farmers Edge Inc.
 - 9.3.5. Cisco Systems, Inc.
 - 9.3.6. Trimble Inc.
 - 9.3.7. Telit Corporate Group
 - 9.3.8. SWIIM System, Ltd.
 - 9.3.9. Decisive Farming Corp.
 - 9.3.10. SlantRange, Inc.

CHAPTER 10. RESEARCH PROCESS

- 10.1. Research Process
 - 10.1.1. Data Mining
 - 10.1.2. Analysis
 - 10.1.3. Market Estimation
 - 10.1.4. Validation
 - 10.1.5. Publishing
- 10.2. Research Attributes

List Of Tables

LIST OF TABLES

TABLE 1. Global IoT in Agriculture market, report scope

TABLE 2. Global IoT in Agriculture market estimates & forecasts by Region 2022-2032 (USD Billion)

TABLE 3. Global IoT in Agriculture market estimates & forecasts by System 2022-2032 (USD Billion)

TABLE 4. Global IoT in Agriculture market estimates & forecasts by Farm Type 2022-2032 (USD Billion)

TABLE 5. Global IoT in Agriculture market estimates & forecasts by Application 2022-2032 (USD Billion)

TABLE 6. Global IoT in Agriculture market by segment, estimates & forecasts, 2022-2032 (USD Billion)

TABLE 7. Global IoT in Agriculture market by region, estimates & forecasts, 2022-2032 (USD Billion)

TABLE 8. Global IoT in Agriculture market by segment, estimates & forecasts, 2022-2032 (USD Billion)

TABLE 9. Global IoT in Agriculture market by region, estimates & forecasts, 2022-2032 (USD Billion)

TABLE 10. Global IoT in Agriculture market by segment, estimates & forecasts, 2022-2032 (USD Billion)

TABLE 11. Global IoT in Agriculture market by region, estimates & forecasts, 2022-2032 (USD Billion)

TABLE 12. Global IoT in Agriculture market by segment, estimates & forecasts, 2022-2032 (USD Billion)

TABLE 13. Global IoT in Agriculture market by region, estimates & forecasts, 2022-2032 (USD Billion)

TABLE 14. Global IoT in Agriculture market by segment, estimates & forecasts, 2022-2032 (USD Billion)

TABLE 15. Global IoT in Agriculture market by region, estimates & forecasts, 2022-2032 (USD Billion)

TABLE 16. U.S. IoT in Agriculture market estimates & forecasts, 2022-2032 (USD Billion)

TABLE 17. U.S. IoT in Agriculture market estimates & forecasts by segment 2022-2032 (USD Billion)

TABLE 18. U.S. IoT in Agriculture market estimates & forecasts by segment 2022-2032 (USD Billion)

TABLE 19. Canada IoT in Agriculture market estimates & forecasts, 2022-2032 (USD Billion)

TABLE 20. Canada IoT in Agriculture market estimates & forecasts by segment 2022-2032 (USD Billion)

TABLE 21. Canada IoT in Agriculture market estimates & forecasts by segment 2022-2032 (USD Billion)

TABLE 22. UK IoT in Agriculture market estimates & forecasts, 2022-2032 (USD Billion)

TABLE 23. UK IoT in Agriculture market estimates & forecasts by segment 2022-2032 (USD Billion)

TABLE 24. UK IoT in Agriculture market estimates & forecasts by segment 2022-2032 (USD Billion)

TABLE 25. Germany IoT in Agriculture market estimates & forecasts, 2022-2032 (USD Billion)

TABLE 26. Germany IoT in Agriculture market estimates & forecasts by segment 2022-2032 (USD Billion)

TABLE 27. Germany IoT in Agriculture market estimates & forecasts by segment 2022-2032 (USD Billion)

TABLE 28. France IoT in Agriculture market estimates & forecasts, 2022-2032 (USD Billion)

TABLE 29. France IoT in Agriculture market estimates & forecasts by segment 2022-2032 (USD Billion)

TABLE 30. France IoT in Agriculture market estimates & forecasts by segment 2022-2032 (USD Billion)

TABLE 31. Italy IoT in Agriculture market estimates & forecasts, 2022-2032 (USD Billion)

TABLE 32. Italy IoT in Agriculture market estimates & forecasts by segment 2022-2032 (USD Billion)

TABLE 33. Italy IoT in Agriculture market estimates & forecasts by segment 2022-2032 (USD Billion)

TABLE 34. Spain IoT in Agriculture market estimates & forecasts, 2022-2032 (USD Billion)

TABLE 35. Spain IoT in Agriculture market estimates & forecasts by segment 2022-2032 (USD Billion)

TABLE 36. Spain IoT in Agriculture market estimates & forecasts by segment 2022-2032 (USD Billion)

TABLE 37. RoE IoT in Agriculture market estimates & forecasts, 2022-2032 (USD Billion)

TABLE 38. RoE IoT in Agriculture market estimates & forecasts by segment 2022-2032 (USD Billion)

TABLE 39. RoE IoT in Agriculture market estimates & forecasts by segment 2022-2032 (USD Billion)

TABLE 40. China IoT in Agriculture market estimates & forecasts, 2022-2032 (USD Billion)

TABLE 41. China IoT in Agriculture market estimates & forecasts by segment 2022-2032 (USD Billion)

TABLE 42. China IoT in Agriculture market estimates & forecasts by segment 2022-2032 (USD Billion)

TABLE 43. India IoT in Agriculture market estimates & forecasts, 2022-2032 (USD Billion)

TABLE 44. India IoT in Agriculture market estimates & forecasts by segment 2022-2032 (USD Billion)

TABLE 45. India IoT in Agriculture market estimates & forecasts by segment 2022-2032 (USD Billion)

TABLE 46. Japan IoT in Agriculture market estimates & forecasts, 2022-2032 (USD Billion)

TABLE 47. Japan IoT in Agriculture market estimates & forecasts by segment 2022-2032 (USD Billion)

TABLE 48. Japan IoT in Agriculture market estimates & forecasts by segment 2022-2032 (USD Billion)

TABLE 49. Australia IoT in Agriculture market estimates & forecasts, 2022-2032 (USD Billion)

TABLE 50. Australia IoT in Agriculture market estimates & forecasts by segment 2022-2032 (USD Billion)

TABLE 51. Australia IoT in Agriculture market estimates & forecasts by segment 2022-2032 (USD Billion)

TABLE 52. South Korea IoT in Agriculture market estimates & forecasts, 2022-2032 (USD Billion)

TABLE 53. South Korea IoT in Agriculture market estimates & forecasts by segment 2022-2032 (USD Billion)

TABLE 54. South Korea IoT in Agriculture market estimates & forecasts by segment 2022-2032 (USD Billion)

TABLE 55.

TABLE 56. RoAPAC IoT in Agriculture market estimates & forecasts, 2022-2032 (USD Billion)

TABLE 57. RoAPAC IoT in Agriculture market estimates & forecasts by segment 2022-2032 (USD Billion)

TABLE 58. RoAPAC IoT in Agriculture market estimates & forecasts by segment 2022-2032 (USD Billion)

TABLE 59. Brazil IoT in Agriculture market estimates & forecasts, 2022-2032 (USD Billion)

TABLE 60. Brazil IoT in Agriculture market estimates & forecasts by segment 2022-2032 (USD Billion)

TABLE 61. Brazil IoT in Agriculture market estimates & forecasts by segment 2022-2032 (USD Billion)

TABLE 62. Mexico IoT in Agriculture market estimates & forecasts, 2022-2032 (USD Billion)

TABLE 63. Mexico IoT in Agriculture market estimates & forecasts by segment 2022-2032 (USD Billion)

TABLE 64. Mexico IoT in Agriculture market estimates & forecasts by segment 2022-2032 (USD Billion)

TABLE 65. RoLA IoT in Agriculture market estimates & forecasts, 2022-2032 (USD Billion)

TABLE 66. RoLA IoT in Agriculture market estimates & forecasts by segment 2022-2032 (USD Billion)

TABLE 67. RoLA IoT in Agriculture market estimates & forecasts by segment 2022-2032 (USD Billion)

TABLE 68. Saudi Arabia IoT in Agriculture market estimates & forecasts, 2022-2032 (USD Billion)

TABLE 69. Saudi Arabia IoT in Agriculture market estimates & forecasts, 2022-2032 (USD Billion)

TABLE 70. Saudi Arabia IoT in Agriculture market estimates & forecasts, 2022-2032 (USD Billion)

TABLE 71. South Africa IoT in Agriculture market estimates & forecasts by segment 2022-2032 (USD Billion)

TABLE 72.

TABLE 73. South Africa IoT in Agriculture market estimates & forecasts by segment 2022-2032 (USD Billion)

TABLE 74. South Africa IoT in Agriculture market estimates & forecasts by segment 2022-2032 (USD Billion)

TABLE 75. RoMEA IoT in Agriculture market estimates & forecasts by segment 2022-2032 (USD Billion)

TABLE 76. RoMEA IoT in Agriculture market estimates & forecasts by segment 2022-2032 (USD Billion)

TABLE 77. RoMEA IoT in Agriculture market estimates & forecasts by segment 2022-2032 (USD Billion)

TABLE 78. List of secondary sources, used in the study of Global IoT in Agriculture Market.

TABLE 79. List of primary sources, used in the study of Global IoT in Agriculture Market.

TABLE 80. Years considered for the study.

TABLE 81. Exchange rates considered.

List Of Figures

LIST OF FIGURES

- FIG 1. Global IoT in Agriculture market, research methodology
- FIG 2. Global IoT in Agriculture market, market estimation techniques
- FIG 3. Global market size estimates & forecast methods.
- FIG 4. Global IoT in Agriculture market, key trends 2023
- FIG 5. Global IoT in Agriculture market, growth prospects 2022-2032
- FIG 6. Global IoT in Agriculture market, porters 5 force model
- FIG 7. Global IoT in Agriculture market, pestel analysis
- FIG 8. Global IoT in Agriculture market, value chain analysis
- FIG 9. Global IoT in Agriculture market by segment, 2022 & 2032 (USD Billion)
- FIG 10. Global IoT in Agriculture market by segment, 2022 & 2032 (USD Billion)
- FIG 11. Global IoT in Agriculture market by segment, 2022 & 2032 (USD Billion)
- FIG 12. Global IoT in Agriculture market by segment, 2022 & 2032 (USD Billion)
- FIG 13. Global IoT in Agriculture market by segment, 2022 & 2032 (USD Billion)
- FIG 14. Global IoT in Agriculture market, regional snapshot 2022 & 2032
- FIG 15. North America IoT in Agriculture market 2022 & 2032 (USD Billion)
- FIG 16. Europe IoT in Agriculture market 2022 & 2032 (USD Billion)
- FIG 17. Asia pacific IoT in Agriculture market 2022 & 2032 (USD Billion)
- FIG 18. Latin America IoT in Agriculture market 2022 & 2032 (USD Billion)
- FIG 19. Middle East & Africa IoT in Agriculture market 2022 & 2032 (USD Billion)
- FIG 20. Global IoT in Agriculture market, company market share analysis (2023)

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