

# IoT-based Smart Agriculture: Global Markets

<https://marketpublishers.com/r/I640B1657037EN.html>

Date: August 2022

Pages: 136

Price: US\$ 5,500.00 (Single User License)

ID: I640B1657037EN

## Abstracts

### Report Scope:

The report provides an overview of the global market for IoT-based smart agriculture and analyzes market trends. Using 2021 as the base year, the report provides estimated market data for 2022 through 2027. Revenue forecasts for this period are segmented by component, connectivity technology, deployment, application and region. The report also focuses on the major driving trends and challenges that affect the market. The report explains the current trends in the IoT-based smart agriculture market, concluding with detailed profiles of the major global IoT-based smart agriculture players.

### Report Includes:

35 data tables and 38 additional tables

A comprehensive overview of the global market for IoT based smart agriculture

Estimation of the market size and analyses of market trends, with data from 2021, estimates for 2022 and projections of compound annual growth rates (CAGRs) through 2027

Highlights of the market potential for IoT based smart agriculture market by component, deployment mode, connectivity technology, application, and region

Coverage of historical background of smart agriculture and information on technology-based aquaculture farming

Identification of market drivers, restraints and other forces impacting the global

market and evaluation of current market size and forecast, and assessment of new developments in the industry

Market share analysis of the key companies of the industry and coverage of events like mergers & acquisitions, joint ventures, collaborations or partnerships, and other key market strategies and a relevant patent analysis

Company profiles of major market players within the industry, including Topcon, Farmers Edge Inc., Bayer AG and Yara.

## Contents

### **CHAPTER 1 INTRODUCTION**

Introduction  
Study Goals and Objectives  
Reasons for Doing This Study  
Scope of Report  
Information Sources  
Methodology  
Intended Audience  
Geographic Breakdown  
Analyst's Credentials  
BCC Custom Research  
Related BCC Research Reports

### **CHAPTER 2 SUMMARY AND HIGHLIGHTS**

### **CHAPTER 3 MARKET AND TECHNOLOGY BACKGROUND**

Technology Overview  
Evolution of IoT-Based Smart Agriculture  
Global Market for IoT-Based Smart Agriculture Value Chain  
Smart Devices and Equipment  
Connectivity Providers  
Digital Services  
End Users  
Cloud Computing in IoT-based Smart Agriculture  
On Cloud  
On-premises  
IoT Network Platforms Used in Hardware  
Cellular and M2M  
Bluetooth  
Wi-Fi  
LoRa  
Others  
Porter's Five Forces Analysis  
Bargaining Power of Suppliers  
Bargaining Power of Buyers

Threat of New Entrants  
Competitive Rivalry  
Threat of Substitutes  
Impact of COVID-19 on the Market for IoT-Based Smart Agriculture  
Positive Impact  
Negative Impact  
Market Drivers  
Optimization of Resources  
GHG Emission Reduction  
Global Food Insecurity  
Market Restraints  
Initial Setup/Operational Cost  
Market Opportunities  
AI, ML, Cloud Computing and Predictive Analytics  
Drones and Robots  
Market Challenge  
Limited Connectivity and Interoperability

## **CHAPTER 4 MARKET BREAKDOWN BY BUSINESS SEGMENT**

Introduction  
Hardware  
Sensors  
Automation and Control  
Guidance and Navigation  
Others  
Software and Solutions  
Services

## **CHAPTER 5 MARKET BREAKDOWN BY APPLICATION**

Introduction  
Higher Production  
Transparency  
Environmental Sustainability  
Enhanced Quality  
Resource Optimization  
Smart Outdoor Farming  
Observation

Diagnostics  
Decisions  
Action  
Variable Rate Application Technology (VRT)  
Yield Monitoring and Mapping  
Drip Irrigation  
Smart Livestock  
Smart Indoor Farming  
Greenhouse Farming  
Vertical Farming  
Smart Aquaculture  
Others

## **CHAPTER 6 MARKET BREAKDOWN BY REGION**

Introduction  
Americas  
United States  
Canada  
Mexico  
Argentina  
Brazil  
Rest of Americas  
Europe  
Germany  
United Kingdom  
France  
Italy  
Spain  
Rest of Europe  
Asia-Pacific  
China  
Japan  
India  
Rest of Asia-Pacific  
Rest of the World  
Middle East  
Africa

## **CHAPTER 7 COMPETITIVE LANDSCAPE**

Market Rank Analysis

Strategic Analysis

Product Innovations

Collaboration, Expansion and Joint Ventures

Partnerships, Acquisitions and Agreement

## **CHAPTER 8 COMPANY PROFILES**

AGCO CORP.

AG LEADER TECHNOLOGY INC.

AKVA GROUP

BAYER AG

CNH INDUSTRIAL N.V.

CORTEVA INC.

CROPX INC

DEERE & CO.

FARMERS EDGE INC.

KUBOTA CORP.

MERCK & CO. INC.

TEEJET TECHNOLOGIES

TOPCON

TRIMBLE INC.

YARA

## **CHAPTER 9 APPENDIX: LIST OF ACRONYMS**

## List Of Tables

### LIST OF TABLES

Summary Table: Global Market for IoT-based Smart Agriculture, by Application, Through 2027

Table 1: Global Market for IoT-Based Smart Agriculture Evolution Timeline: Overview

Table 2: Benefits of Cloud Computing in IoT-Based Smart Agriculture

Table 3: Major Connectivity Platforms, IoT-Based Smart Agriculture

Table 4: Porter's Five Forces Analysis: Overview

Table 5: Major Technological Usage in Agriculture

Table 6: Estimation of GHG Emissions of a Prairie (Grassland)

Table 7: Global Market for IoT-Based Smart Agriculture, by Business Segment, Through 2027

Table 8: Global Market for Hardware Applications in IoT-Based Smart Agriculture, by Region, Through 2027

Table 9: Global Market for the Application of Software and Solutions in IoT-Based Smart Agriculture, by Region, Through 2027

Table 10: Global Market for Services in IoT-Based Smart Agriculture, by Region, Through 2027

Table 11: Global Market for IoT-based Smart Agriculture, by Application, Through 2027

Table 12: Global Market for IoT-based Smart Outdoor Farming, by Region, Through 2027

Table 13: Global Market for IoT-based Smart Livestock Management, by Region, Through 2027

Table 14: Global Market for IoT-Based Smart Indoor Farming, by Region, Through 2027

Table 15: Global Market for IoT-Based Smart Aquaculture, by Region, Through 2027

Table 16: Global Market for IoT-Based Other Farming, by Region, Through 2027

Table 17: Global Market for IoT-Based Smart Agriculture, by Region, Through 2027

Table 18: Americas Market for IoT-Based Smart Agriculture, by Country, Through 2027

Table 19: Americas Market for IoT-Based Smart Agriculture, by Business Segment, Through 2027

Table 20: Americas Market for IoT-Based Smart Agriculture, by Application, Through 2027

Table 21: European Market for IoT-Based Smart Agriculture, by Country, Through 2027

Table 22: European Market for IoT-Based Smart Agriculture, by Business Segment, Through 2027

Table 23: European Market for IoT-Based Smart Agriculture, by Application, Through 2027

Table 24: Asia-Pacific Market for IoT-Based Smart Agriculture, by Country, Through 2027

Table 25: Asia-Pacific Market for IoT-Based Smart Agriculture, by Business Segment, Through 2027

Table 26: Asia-Pacific Market for IoT-Based Smart Agriculture, by Application, Through 2027

Table 27: Middle East and African Market for IoT-Based Smart Agriculture, by Country, Through 2027

Table 28: Middle East and African Market for IoT-based Smart Agriculture, by Business Segment, Through 2027

Table 29: Middle East and African Market for IoT-Based Smart Agriculture, by Application, Through 2027

Table 30: Top Five Players, Global Market for IoT-Based Smart Agriculture Market, 2021

Table 31: Global Market for IoT-Based Smart Agriculture, Product Innovations, Jan. 2021-June 2022

Table 32: Global Market for IoT-Based Smart Agriculture, Collaborations, Expansions and Joint Ventures, March 2021-April 2022

Table 33: Global Market for IoT-Based Smart Agriculture, Partnership, Acquisition and Agreement Jan. 2021-May 2022

Table 34: AGCO Corp.: Recent Financial Performance, FY 2019-FY 2021

Table 35: AGCO Corp.: IoT-Based Smart Agriculture Offerings

Table 36: AGCO Corp.: Recent Developments, 2021 and 2022

Table 37: Ag Leader Technology: IoT-Based Agriculture Offerings

Table 38: Ag Leader Technology: Recent Developments, 2021

Table 39: AKVA group: Recent Financial Performance, 2019-2021

Table 40: AKVA Group: IoT-Based Agriculture Offerings

Table 41: AKVA Group: Recent Developments, 2021

Table 42: Bayer AG: Recent Financial Performance, 2019-2021

Table 43: Bayer AG: IoT-Based Agriculture Offerings

Table 44: Bayer AG: Recent Developments, 2021 and 2022

Table 45: CNH Industrial N.V.: Recent Financial Performance, FY 2019-FY 2021

Table 46: CNH Industrial N.V.: IoT-Based Smart Agriculture Offerings

Table 47: CNH Industrial N.V.: Recent Developments, 2021 and 2022

Table 48: Corteva, Inc.: Company Financials, FY 2019-2021

Table 49: Corteva Inc.: IoT-Based Smart Agriculture Offerings

Table 50: Corteva Inc.: Recent Developments, 2021

Table 51: CropX, Inc: IoT-Based Agriculture Offerings

Table 52: CropX Inc: Recent Developments, 2021 and 2022



Table 53: Deere & Co.: Recent Financial Performance, FY 2019-FY 2021

Table 54: Deere & Co.: IoT-Based Smart Agriculture Offerings

Table 55: Deere & Co.: Recent Developments, 2021

Table 56: Farmers Edge Inc.: IoT-Based Smart Agriculture Offerings

Table 57: Farmers Edge Inc.: Recent Developments, 2021 and 2022

Table 58: Kubota Corp.: Recent Financial Performance, FY 2019-FY 2021

Table 59: Kubota Corp.: IoT-Based Smart Agriculture Offerings

Table 60: Kubota Corp.: Recent Developments, 2021 and 2022

Table 61: Merck & Co. Inc.: Recent Financial Performance, FY 2019 FY 2021

Table 62: Merck & Co. Inc.: IoT-Based Agriculture Offerings

Table 63: Merck & Co. Inc.: Recent Developments, 2021

Table 64: TeeJet Technologies: IoT-Based Smart Agriculture Offerings

Table 65: Topcon: Recent Financial Performance, FY 2019-FY 2021

Table 66: Topcon: IoT-Based Smart Agriculture Offerings

Table 67: Topcon: Recent Developments, 2021 and 2022

Table 68: Trimble Inc.: Recent Financial Performance, FY 2019-FY 2021

Table 69: Trimble Inc.: IoT-Based Agriculture Offerings

Table 70: Trimble Inc.: Recent Developments, 2021 and 2022

Table 71: Yara: Recent Financial Performance, 2019-2021

Table 72: Yara: IoT-Based Smart Agriculture Offerings

Table 73: List of Acronyms

## List Of Figures

### LIST OF FIGURES

- Summary Figure: Global Market for IoT-based Smart Agriculture, 2021-2027
- Figure 1: Global Market for IoT-Based Smart Agriculture Integration with Sustainable Development Goals (SDGs)
- Figure 2: Global Market for IoT-Based Smart Agriculture: Value Chain
- Figure 3: Porter's Five Forces Analysis
- Figure 4: Global Market for IoT-Based Smart Agriculture Market-Bargaining Power of Suppliers
- Figure 5: Global Market for IoT-Based Smart Agriculture Market-Bargaining Power of Consumers
- Figure 6: Global Market for IoT-Based Smart Agriculture Market-Threat of New Entrants
- Figure 7: Global Market for IoT-Based Smart Agriculture Market-Competitive Rivalry
- Figure 8: Global Market for IoT-Based Smart Agriculture Market-Threat of Substitutes
- Figure 9: Global Population Count Projections
- Figure 10: Global Market Shares of IoT-Based Smart Agriculture, by Business Segment, 2021
- Figure 11: Global for Market Shares of Hardware Applications in IoT-Based Smart Agriculture, by Region, 2021
- Figure 12: Global Market Shares of the Application of Software and Solutions in in IoT-Based Smart Agriculture, by Region, 2021
- Figure 13: Global Market Shares of Services in IoT-Based Smart Agriculture, by Region, 2021
- Figure 14: Global Market for IoT-based Smart Agriculture Benefits
- Figure 15: Global Market Shares of IoT-Based Smart Agriculture, by Application, 2021
- Figure 16: Smart Farming Workflow Structure
- Figure 17: Global Market Shares of IoT-Based Smart Outdoor Farming, by Region, 2021
- Figure 18: Global Market Shares of IoT-Based Smart Livestock Management, by Region, 2021
- Figure 19: Global Market Shares of IoT-Based Smart Indoor Farming, by Region, 2021
- Figure 20: Global Market Shares of IoT-Based Smart Aquaculture, by Region, 2021
- Figure 21: Global Market Shares of IoT-Based Other Farming, by Region, 2021
- Figure 22: Global Market Shares of IoT-Based Smart Agriculture, by Region, 2021
- Figure 23: Americas Market Shares of IoT-Based Smart Agriculture, by Country, 2021
- Figure 24: Americas Market Shares of IoT-Based Smart Agriculture, by Business Segment, 2021

Figure 25: Americas Market Shares of IoT-Based Smart Agriculture , by Application, 2021

Figure 27: Canadian Market for IoT-Based Smart Agriculture, by Country, 2021-2027

Figure 28: Mexican Market for IoT-Based Smart Agriculture, by Country, 2021-2027

Figure 29: Argentine Market for IoT-Based Smart Agriculture, by Country, 2021-2027

Figure 30: Brazilian Market for IoT-Based Smart Agriculture, by Country, 2021-2027

Figure 31: Rest of Americas Market for IoT-Based Smart Agriculture, by Country, 2021-2027

Figure 32: European Market Shares of IoT-Based Smart Agriculture, by Country, 2021

Figure 33: European Market for IoT-Based Smart Agriculture, by Business Segment, 2021

Figure 34: European Market Shares of IoT-Based Smart Agriculture, by Application, 2021

Figure 35: German Market for IoT-Based Smart Agriculture, by Country, 2021-2027

Figure 36: U.K. Market for IoT-Based Smart Agriculture, by Country, 2021-2027

Figure 37: France Market for IoT-Based Smart Agriculture, by Country, 2021-2027

Figure 38: Italian Market for IoT-Based Smart Agriculture, by Country, 2021-2027

Figure 39: Spanish Market for IoT-Based Smart Agriculture, by Country, 2021-2027

Figure 40: Rest of European Market for IoT-Based Smart Agriculture, by Country, 2021-2027

Figure 41: Asia-Pacific Market Shares of IoT-Based Smart Agriculture, by Country, 2021

Figure 42: Asia-Pacific Market Shares of IoT-Based Smart Agriculture, by Business Segment, 2021

Figure 43: Asia-Pacific Market Shares of IoT-Based Smart Agriculture, by Application, 2021

Figure 44: Chinese Market for IoT-Based Smart Agriculture, by Country, 2021-2027

Figure 45: Japanese Market for IoT-Based Smart Agriculture, by Country, 2021-2027

Figure 46: Indian Market for IoT-Based Smart Agriculture, by Country, 2021-2027

Figure 47: Rest of APAC Market for IoT-Based Smart Agriculture, by Country, 2021-2027

Figure 48: Middle East and African Market Shares of IoT-Based Smart Agriculture, by Country, 2021

Figure 49: Middle East and African Market Shares of IoT-Based Smart Agriculture, by Business Segment, 2021

Figure 50: Middle East and African Market Shares of IoT-Based Smart Agriculture, by Application, 2021

Figure 51: Middle Eastern Market for IoT-Based Smart Agriculture, by Country, 2021-2027

Figure 52: African Market for IoT-Based Smart Agriculture, by Country, 2021-2027

- Figure 53: AGCO Corp.: Revenue, by Business Segment, FY 2021
- Figure 54: AGCO Corp.: Revenue, by Region, FY 2021
- Figure 55: AKVA Group: Revenue, by Segment, 2021
- Figure 56: AKVA Group: Revenue, by Region, 2021
- Figure 57: Bayer AG: Revenue, by Segment, 2021
- Figure 58: Bayer AG: Revenue, by Region, 2021
- Figure 59: CNH Industrial N.V.: Revenue, by Segment, FY 2021
- Figure 60: CNH Industrial N.V.: Revenue, by Region, FY 2021
- Figure 61: Corteva, Inc.: Revenue, by Business Segment, 2021
- Figure 62: Corteva, Inc.: Revenue, by Region, 2021
- Figure 63: Deere & Co.: Revenue, by Segment, FY 2021
- Figure 64: Deere & Co.: Revenue, by Region, FY 2021
- Figure 65: Kubota Corp.: Revenue, by Segment, FY 2021
- Figure 66: Kubota Corp.: Revenue, by Region, FY 2021
- Figure 67: Merck & Co. Inc.: Revenue, by Segment, FY 2021
- Figure 68: Merck & Co. Inc.: Revenue, by Region, FY 2021
- Figure 69: Topcon: Revenue, by Segment, FY 2021
- Figure 70: Topcon: Revenue, by Region, FY 2021
- Figure 71: Trimble Inc.: Revenue, by Segment, FY 2021
- Figure 72: Trimble Inc.: Revenue, by Region, FY 2021
- Figure 73: Yara: Revenue, by Segment, 2021

## I would like to order

Product name: IoT-based Smart Agriculture: Global Markets

Product link: <https://marketpublishers.com/r/l640B1657037EN.html>

Price: US\$ 5,500.00 (Single User License / Electronic Delivery)

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

[info@marketpublishers.com](mailto:info@marketpublishers.com)

## Payment

To pay by Credit Card (Visa, MasterCard, American Express, PayPal), please, click button on product page <https://marketpublishers.com/r/l640B1657037EN.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