

Satellite Imaging for Agriculture Market - A Global and Regional Analysis: Focus on, Application, End User, Product, and Region - Analysis and Forecast, 2023-2028

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Abstracts

Introduction to Satellite Imaging for Agriculture

The global satellite imaging for agriculture market was valued at \$516.1 million in 2022, and it is expected to grow with a CAGR of 7.50% during the forecast period 2023-2028 to reach \$785.3 million by 2028. The growth in the global satellite imaging for agriculture technology market is expected to be driven by the increasing need for efficient and sustainable agriculture practices.

Market Introduction

Satellite-based agricultural imaging refers to the utilization of satellite-derived data for remote monitoring, management, and control of crop conditions, soil quality, and other agricultural parameters. Through the analysis of satellite imagery, farmers can assess soil characteristics, track crop health, and identify susceptibility to diseases, pests, and other risks. The integration of satellite imaging into precision agriculture practices has significantly enhanced sustainability and intelligence in the field. Recognizing the potential of satellite imaging in agriculture, the United Nations Food and Agriculture Organization (FAO) acknowledges the need for improved management of global agricultural resources, especially in developing nations.

Industrial Impact

In the agricultural domain, satellite imagery can be integrated with a range of

complementary technologies to facilitate the monitoring and management of agricultural resources. The combination of global positioning system (GPS) technology and satellite image distribution enables researchers and farmers to effectively track and oversee agricultural activities. High-resolution satellite technologies provide crucial information for achieving profitability, efficiency, and sustainability in farming practices. Remote sensing using unmanned aerial vehicles (UAVs) for image capture, processing, and analysis has significantly impacted the agricultural sector. By combining these technologies with satellite imagery, farmers can enhance their overall agricultural operations.

The global market for satellite imaging technology in agriculture is set to benefit significantly from the advancement of small satellite constellations. These constellations consist of multiple compact satellites working collaboratively to provide high-resolution and high-frequency satellite services, delivering crucial information for achieving profitable, efficient, and sustainable agricultural practices. In comparison to traditional satellite systems, small satellite constellations offer notable advantages, including cost reduction, shorter revisit intervals, and enhanced image resolution. These factors have substantially improved farmers' accessibility to satellite imagery, enabling its integration into sustainable farming methods and precision agriculture.

In the global market for satellite imaging in agriculture, companies are proactively employing knowledge-driven strategies and technological innovations to establish themselves as market leaders. By adopting effective business or corporate strategies, these companies aim to maintain their relevance in the market and identify opportunities for growth. They strive to gain a competitive edge by implementing efficient business or corporate strategies that contribute to long-term profitability and ensure their future success.

Impact of the Russia-Ukraine Crisis

The conflict in Ukraine has heightened awareness regarding the use of satellite imagery to track crop losses and assess the impact of the war on food production. High-resolution satellite imagery has shed light on the attacks on Ukraine's agricultural sector, underscoring the importance of monitoring the effects of armed conflict on farming. NASA's Harvest program has leveraged satellite imagery to provide valuable insights into the wheat harvest in Ukraine, particularly in the season following Russia's invasion. The availability of commercial satellite data during conflicts proves instrumental in planning and mitigating food shortages, as demonstrated in the Ukraine crisis. Experts are increasingly recognizing the indispensable role of satellite imagery in

tracking the influence of conflict on agriculture and ensuring effective response strategies.

Market Segmentation:

Segmentation 1: by Application

Crop Health Monitoring

Soil Mapping

Forestry

Others

Crop Health Monitoring to Continue its Dominance as the Leading Application Segment

The satellite imaging for agriculture market is led by the crop health monitoring segment, with a 41.1% share in 2022. Satellite imagery plays a pivotal role in the monitoring of crop health, enabling precise digital agriculture practices and large-scale pest detection. It empowers farmers and agronomists to monitor and optimize crop health and assess variations in yield on a seasonal basis.

By integrating satellite imagery with various datasets such as disease and pest models, yield maps, pest monitoring, and fertilization maps, a comprehensive crop monitoring system can be established. For example, in India, agri-traders have gained a competitive edge by estimating wheat yields at a state level 30 days prior to harvest, enabling informed decision-making regarding procurement and storage strategies.

By providing detailed imagery of remote areas, satellite imagery is providing researchers with the data they need to create accurate soil maps for areas that may otherwise have remained unmapped.

Satellite imagery is proving an effective tool that meets forestry management and research needs for cost-effective, up-to-date information on the status of forest resources. Scientists, governments, and non-governmental organizations have turned to satellite data to track deforestation, as well as to set targets for improvement. By providing a more comprehensive view of animal movements, this technology is allowing

conservationists to better understand and protect migratory species.

Satellite imaging can be used to monitor carbon emissions, including those from forests and cities, in near-real-time through the integration of data from multiple satellites. Additionally, satellite imaging can be used to monitor weather patterns and changes, which can impact carbon sequestration and emissions.

Segmentation 2: by End User

Agribusinesses

Government and Non-Government Agencies

Research Institutes

Others

Agribusiness to Witness the Highest Growth between 2022 and 2028

The satellite imaging for agriculture market was dominated by the agribusiness segment in 2022 with a 66.6% share. Satellite image and remote sensing technology are improving every day, assisting farm managers and modern farmers in keeping track of conditions and monitoring growth, weather, and carbon. As the farms grow bigger in size, the satellite images give relevant data with newfound ease and surprising accuracy. They can help managers demonstrate their conservation and management efforts in an easily understandable and visually appealing way.

Governments and NGOs frequently use satellite images to analyze patterns of land use and plan for agricultural development, conservation, and other land use activities.

Crop models, which are mathematical representations of crop growth, yield, and response to environmental factors, can be developed and validated using satellite images. Researchers use these models to improve their understanding of crop biology and to create new crop varieties and management techniques.

More significant corporate players are searching for opportunities to buy and lease out various farming operations across the nation. Understanding historical management and conditions is crucial to these decisions, which has been made possible by satellite

imagery and other remote sensing products. As a result, one can use the strength of time-series satellite imagery and remote sensing products to combine the expertise of farmers and farm managers with satellite data to tell a complete history of the farm and inspire confidence in the operation's capability in investors.

Segmentation 3: by Product

Data Acquisition

Processing

Analytics

Integrated Delivery Platform

Integrated Delivery Platform to Witness the Highest Growth between 2022 and 2028

The satellite imaging for agriculture market is estimated to be led by the integrated delivery platform, and it held a share of 45.2% in 2022. For further use in analytics, acquired raw data must be processed to remove distortions (such as geographic, radiometric, and radiometric). Additionally, predefined coordinates and sensor specifications are followed when acquiring data. In order to interpret and analyze the data, the sensors gather the radiance and further process it into raw images. The various algorithms used in the geospatial analytics process integrate the various data and provide useful insights.

A significant constraint is developing a platform that can streamline communications between these systems and exchange mission-critical data continuously by integrating data from all applications, databases, and users.

Segmentation 4: by Region

North America - U.S., Canada, and Mexico

Europe - Germany, France, Italy, Netherlands, Switzerland, Belgium, Spain, and Rest-of-Europe

China

U.K.

Asia-Pacific - Japan, India, South Korea, Australia and New Zealand, and Rest-of-Asia-Pacific

South America - Argentina, Brazil, and Rest-of-South America

Middle East and Africa - South Africa, Turkey, Israel, and Rest-of-Middle East and Africa

North America, Europe, and the U.K. are the primary regions contributing to the global satellite imaging for agriculture market, and they collectively accounted for around 59% of the market share in 2022. The utilization of satellite imaging for precise crop health monitoring and pest detection is a key factor driving market growth in these regions. Asia-Pacific, including China, is gradually adopting satellite imaging for agriculture, supported by increasing research and development activities, experimental field studies, and government initiatives.

In the Middle East and Africa, the adoption of satellite imaging for agriculture is increasing due to technical training programs offered to farmers for adopting advanced precision agricultural technologies. In South America, the demand for food production with efficient input utilization and the emergence of start-ups are driving the adoption of satellite imaging for agriculture.

Recent Developments in the Satellite Imaging for Agriculture Market

On March 2023, Esri partnered with Pollen Systems Corporation. Growers can manage their operations and make data-driven decisions by integrating geospatial data from various sources and gaining insights into the environmental and social impacts of their operations owing to the integration of PrecisionView Mobile with Esri's ArcGIS platform.

On March 2023, Satellogic partnered with SKYFI. Further democratizing geospatial data, the integration would increase users' access to Satellogic's Earth observation data.

On March 2023, to broaden its data analysis platform and give its clients more insightful data, Planet Labs PBC acquired Sinergise.

On March 2023, one of the first 30 cm HD global imagery base maps was produced by Maxar Technologies using more than 400,000 high-resolution satellite photos. It can be applied as a visually appealing contextual overlay as well as for extracting and recognizing features, making maps, producing 3D data for simulations, and more.

Demand – Drivers and Limitations

Market Demand Drivers:

Increasing Requirements from the Insurance Sector

In the realm of payment claims management, crop insurance companies are progressively incorporating satellite imagery as a valuable tool to assess the magnitude and extent of crop damage. An accurate and unbiased view of a crop's status and potential can be obtained from satellite imagery, which can assist insurers in making more informed choices regarding crop insurance claims.

Increasing Farm Consolidation

The proliferation of satellite imagery in agricultural applications is projected to surge in response to the growing trend of farm consolidation. As farms expand in size, the integration of remote sensing technology would enable managers to effectively monitor various aspects such as growth, weather conditions, and other relevant factors. Moreover, identifying underutilized or suboptimal areas would empower farmers to consolidate these areas and increase overall productivity and operational efficiency.

High Benefits over Other Remote Sensing Technology and Infield Monitoring Technology

By incorporating satellite data into sophisticated algorithms, it is also possible to measure a variety of characteristics, including yield and crop growth stage, using satellite imagery. Satellite imagery can also aid farmers in understanding a variety of farming-related issues, such as areas that require more or less irrigation, the areas where their livestock graze, where to apply fertilizer, and the effects of changing weather patterns.

Need for Sustainable Agriculture Practices

In several ways, satellite imagery in agriculture supports the need for sustainable agricultural practices. First, crop health and growth rates can be tracked using satellite imagery, which can assist farmers in maximizing inputs and minimizing the use of pesticides and fertilizers. Second, land use and changes in vegetation cover can be tracked using satellite imagery, which can be used by farmers to identify underutilized or underused land. Deforestation and other types of land-use changes may not be as necessary as a result of more effective land use.

Market Challenges:

Technical Challenges in Obtaining and Analyzing Satellite Imagery

Even though satellite imagery has long been used in the agriculture industry, many developing nations still lack knowledge and understanding of the technology. This ignorance and lack of understanding may limit the use of satellite imagery in agriculture and prevent farmers from benefiting from its advantages. Although satellite imagery offers data for agricultural practices, crop types, and the corresponding outcome variables over lengthy time periods, farmers in developing nations might lack the technical know-how or expertise to effectively access and use the data.

Geopolitical Issues

High-resolution satellite imagery is restricted from being accessed for agricultural purposes due to national security, political, and privacy concerns, among other geopolitical issues. Additionally, some nations might not have the resources or infrastructure necessary to access and use satellite imagery efficiently, which can restrict the extent to which farmers in those nations can take advantage of satellite imagery's advantages in agriculture.

Limited Understanding and Awareness Across Developing Countries

Israel and the U.S. are two nations that limit access to high-resolution satellite imagery. While access to high-resolution satellite imagery in Israel has historically been constrained due to national security concerns, production of satellite imagery with a resolution finer than 0.31 m is prohibited in the U.S.

Market Opportunities:

Rising Threat of Climate Risk

Satellite imagery is employed to tackle climate risks in agriculture. It aids in precision agriculture, enabling farmers to manage their environment sustainably. Remote sensing combines satellite data with field samples for a comprehensive agricultural landscape overview. Decision-makers can utilize satellite data for climate-sensitive matters like land use and water management.

Artificial Intelligence and Machine Learning in Action

By advancing crop production, raising agricultural efficiencies, enhancing crop yields, and cutting costs associated with food production, AI and ML are revolutionizing satellite imagery in agriculture. In order to predict crop yields, ML analyzes sensor data and historical trends, aiding farmers in the practice of precision farming. To help farmers monitor, manage, and protect crops from extreme weather conditions, diseases, pests, and other threats, satellite imagery can be combined with other cutting-edge solutions, such as the Internet of Things.

Tapping Small Holding Farmers with Affordable Solutions

The free use of satellite imagery on services such as Amazon Web Services (AWS) is one of the cost-effective solutions offered to smallholder farmers by satellite imaging. This can improve efficiency and help farmers conserve water and fertilizer. Additionally, utilizing satellite data and machine learning can promote smallholder farmers' financial inclusion. Farmers can inform their decision-making for improving crop production and revenue while reducing environmental impact by using precision agriculture, which is based on intensive data collection with local sensor-based technology and remotely sensed imagery. Smallholder farmers need an ecosystem of contextually relevant software applications, though, in order to truly benefit from these advancements.

How Can This Report Add Value to an Organization?

Product/Innovation Strategy: The product segment helps the reader understand the different technologies used for satellite imaging for agriculture and their potential globally. Moreover, the study gives the reader a detailed understanding of the different solutions provided by the satellite imaging technology providers, such as imaging, processing, and analyzing. Compared to conventional agricultural methods, satellite imaging technology enables more exact targeting of planting, soil mapping, and forestry, allowing farmers to save money by maximizing the use of their inputs.

Growth/Marketing Strategy: The global satellite imaging for agriculture market has seen major development by key players operating in the market, such as business expansion, partnership, collaboration, and joint venture. The favored strategy for the companies has been partnerships, collaborations, and joint ventures to strengthen their position in the global satellite imaging for agriculture market. For instance, on March 2023, Satellogic partnered with SKYFI to further democratize geospatial data. The integration would increase users' access to Satellogic's Earth observation data.

Competitive Strategy: Key players in the global satellite imaging for agriculture market analyzed and profiled in the study involve satellite imaging technology-based product manufacturers, including market segments covered by distinct product kinds, applications served, and regional presence, as well as the influence of important market tactics employed. Moreover, a detailed competitive benchmarking of the players operating in the global satellite imaging for agriculture market has been done to help the reader understand how players stack against each other, presenting a clear market landscape. Additionally, comprehensive competitive strategies such as partnerships, agreements, and collaborations will aid the reader in understanding the untapped revenue pockets in the market.

Key Market Players and Competition Synopsis

The companies that are profiled have been selected based on inputs gathered from primary experts and analyzing company coverage, product portfolio, and market penetration.

The top leading players include the public companies operating in the global satellite imaging for agriculture market, which had a market share of around 62% in 2021. The rest of the market share, 38%, was taken by the private and start-up companies.

Key Companies Profiled

Company Type 1: Public Companies

Airbus

Farmers Edge Inc

Planet Labs PBC

Satellogic

Syngenta

Maxar Technologies

Company Type 2: Private Companies

Descartes Labs, Inc

EOS Data Analytics, Inc

Esri

European Space Imaging

Gamaya

ICEYE

NaraSpace Inc

Open Cosmos Ltd

Satellite Imaging Corporation

SkyWatch

SpaceKnow Inc.

EarthDaily Analytics

SatSure

SpaceSense

Synspective

Contents

1 MARKET

- 1.1 Industry Outlook
 - 1.1.1 Market Definition
 - 1.1.2 Ongoing Trends
 - 1.1.2.1 Emerging Innovative Network Technology for Smart Crop Scouting
 - 1.1.2.1.1 Satellite
 - 1.1.2.1.2 LoRaWAN
 - 1.1.2.1.3 5G
 - 1.1.2.2 Emerging Imaging and Data Collection Technologies
 - 1.1.2.2.1 Hyperspectral Imaging
 - 1.1.2.2.2 Multispectral Imaging
 - 1.1.2.2.3 Thermal Imaging
 - 1.1.2.2.4 LiDAR
 - 1.1.3 Ecosystem/Ongoing Programs
 - 1.1.3.1 Consortiums and Associations
 - 1.1.3.2 Regulatory Bodies
 - 1.1.3.3 Government Initiatives and Impact
- 1.2 Business Dynamics
 - 1.2.1 Business Drivers
 - 1.2.1.1 Need for Higher Production at Limited Resources
 - 1.2.1.1.1 Labor Shortage
 - 1.2.1.2 Increased Focus on Sustainable Agriculture
 - 1.2.1.2.1 Growing Demand for Organic and Non-GMO Crops
 - 1.2.2 Business Challenges
 - 1.2.2.1 High Initial Investment
 - 1.2.2.2 Data Security Related Concerns
 - 1.2.2.3 Compatibility with Existing Equipment
 - 1.2.2.4 Limited Availability of Skilled Labor
 - 1.2.3 Market Strategies and Developments
 - 1.2.3.1 Business Strategies
 - 1.2.3.1.1 Product Development and Innovations
 - 1.2.3.1.2 Business Expansion
 - 1.2.3.2 Corporate Strategies
 - 1.2.3.2.1 Partnerships, Joint Ventures, Collaborations, and Alliances
 - 1.2.3.2.2 Mergers and Acquisitions
 - 1.2.3.2.3 Others

1.2.3.2.4 Snapshot of Corporate Strategies Adopted by the Players in Smart Crop Scouting and Smart Spraying Market

1.2.3.3 Case Studies

1.2.3.3.1 See & Spray Ultimate Sprayer Case Study

1.2.3.3.2 5G Connected Autonomous Robots by KPN and AGROiNTELLi

1.2.3.3.3 DJI Drone-Based Roden Control Case Study

1.2.4 Business Opportunities

1.2.4.1 Integral Offerings with Horizontal Integration in Farming

1.2.4.2 Climate-Smart Agriculture

1.3 Geopolitical and Socioeconomic Impacts

1.3.1 Impact of COVID-19 on Global Smart Crop Scouting and Smart Spraying Market

1.3.2 Impact of Russia-Ukraine on Global Smart Crop Scouting and Smart Spraying Market

1.4 Startup Landscape

1.4.1 Key Startups in the Ecosystem

1.4.2 Funding Analysis

1.4.2.1 Total Investment and Number of Funding Deals

1.4.2.2 Top Investors

1.4.2.3 Top Funding Deals by the Startups and Investors

1.4.2.4 Funding Analysis (by Country)

2 APPLICATION

2.1 Global Smart Crop Scouting Market (by Application)

2.1.1 Weed Detection

2.1.2 Disease and Damage Detection

2.1.3 Pest Detection

2.1.4 Nutrient Analysis

2.1.5 Others

2.2 Demand Analysis of Global Smart Crop Scouting Market (by Application)

2.2.1 Demand Analysis of Global Smart Crop Scouting Market (by Application)

2.3 Global Smart Spraying Market (by Application)

2.3.1 Nutrient Application

2.3.2 Crop Protection Chemical Application

2.3.3 Herbicide Application

2.4 Demand Analysis of Global Smart Spraying Market (by Application)

2.4.1 Demand Analysis of Global Smart Spraying Market (by Application)

3 PRODUCTS

- 3.1 Global Smart Crop Scouting Market (by Product)
 - 3.1.1 Equipment Scouting
 - 3.1.1.1 Robots
 - 3.1.1.2 Drones
 - 3.1.1.3 Mobile Applications and Sensors
 - 3.1.2 Software Scouting
 - 3.1.2.1 Geographic Information System (GIS) Software
 - 3.1.2.2 Remote Sensing Software
 - 3.1.2.3 Crop Management Software
- 3.2 Demand Analysis of Global Smart Crop Scouting Market (by Product)
 - 3.2.1 Demand Analysis of Global Smart Crop Scouting Market (by Equipment Scouting)
- 3.3 Demand Analysis of Global Smart Crop Scouting Market (by Product)
 - 3.3.1 Demand Analysis of Global Smart Crop Scouting Market (by Software Scouting)
- 3.4 Global Smart Spraying Market (by Product)
 - 3.4.1 Tractor Mounted and Self-Propelled Sprayers
 - 3.4.2 Robotic Sprayers
 - 3.4.3 Drone Sprayers
- 3.5 Demand Analysis of Global Smart Spraying Market (by Product)
 - 3.5.1 Demand Analysis of Global Smart Spraying Market (by Product)
- 3.6 Supply Chain Analysis
- 3.7 Operational Analysis
- 3.8 Adoption Scenario
- 3.9 Patent Analysis
 - 3.9.1 Patent Analysis (by Application)
 - 3.9.2 Patent Analysis (by Organization)
 - 3.9.3 Patent Analysis (by Patent Office)

4 REGION

- 4.1 North America
 - 4.1.1 Market
 - 4.1.1.1 Key Smart Crop Scouting and Smart Spraying Operators in North America
 - 4.1.1.2 Buyer Attributes
 - 4.1.1.2.1 Farm Size, Labor Availability, and State of Digitization in Agriculture
 - 4.1.1.2.2 Crop Pattern and Biotic and Abiotic Stress Factors
 - 4.1.1.2.3 Smart Crop Scouting Acreage (by Company)
 - 4.1.1.3 Business Challenges
 - 4.1.1.4 Business Drivers

- 4.1.2 Application
 - 4.1.2.1 North America Smart Crop Scouting Market (by Application)
 - 4.1.2.2 North America Smart Spraying Market (by Application)
- 4.1.3 Product
 - 4.1.3.1 North America Smart Crop Scouting Market (by Product)
 - 4.1.3.2 North America Smart Spraying Market (by Product)
- 4.1.4 North America (by Country)
 - 4.1.4.1 U.S.
 - 4.1.4.1.1 Market
 - 4.1.4.1.1.1 Buyer Attributes
 - 4.1.4.1.1.1.1 Farm Size, Labor Availability, and State of Digitization in Agriculture
 - 4.1.4.1.1.1.2 Crop Pattern and Biotic and Abiotic Stress Factors
 - 4.1.4.1.1.2 Business Challenges
 - 4.1.4.1.1.3 Business Drivers
 - 4.1.4.1.2 Application
 - 4.1.4.1.2.1 U.S. Smart Crop Scouting Market (by Application)
 - 4.1.4.1.2.2 U.S. Smart Spraying Market (by Application)
 - 4.1.4.1.3 Product
 - 4.1.4.1.3.1 U.S. Smart Crop Scouting Market (by Product)
 - 4.1.4.1.3.2 U.S. Smart Spraying Market (by Product)
 - 4.1.4.2 Canada
 - 4.1.4.2.1 Market
 - 4.1.4.2.1.1 Buyer Attributes
 - 4.1.4.2.1.1.1 Farm Size, Labor Availability, and State of Digitization in Agriculture
 - 4.1.4.2.1.1.2 Crop Pattern and Biotic and Abiotic Stress Factors
 - 4.1.4.2.1.2 Business Challenges
 - 4.1.4.2.1.3 Business Drivers
 - 4.1.4.2.2 Application
 - 4.1.4.2.2.1 Canada Smart Crop Scouting Market (by Application)
 - 4.1.4.2.2.2 Canada Smart Spraying Market (by Application)
 - 4.1.4.2.3 Product
 - 4.1.4.2.3.1 Canada Smart Crop Scouting Market (by Product)
 - 4.1.4.2.3.2 Canada Smart Spraying Market (by Product)
 - 4.1.4.3 Mexico
 - 4.1.4.3.1 Market
 - 4.1.4.3.1.1 Buyer Attributes
 - 4.1.4.3.1.1.1 Farm Size, Labor Availability, and State of Digitization in Agriculture
 - 4.1.4.3.1.1.2 Crop Pattern and Biotic and Abiotic Stress Factors
 - 4.1.4.3.1.2 Business Challenges

- 4.1.4.3.1.3 Business Drivers
- 4.1.4.3.2 Application
 - 4.1.4.3.2.1 Mexico Smart Crop Scouting Market (by Application)
 - 4.1.4.3.2.2 Mexico Smart Spraying Market (by Application)
- 4.1.4.3.3 Product
 - 4.1.4.3.3.1 Mexico Smart Crop Scouting Market (by Product)
 - 4.1.4.3.3.2 Mexico Smart Spraying Market (by Product)
- 4.2 South America
 - 4.2.1 Market
 - 4.2.1.1 Key Smart Crop Scouting and Smart Spraying Operators in South America
 - 4.2.1.1.1 Farm Size, Labor Availability, and State of Digitization in Agriculture
 - 4.2.1.1.2 Crop Pattern and Biotic and Abiotic Stress Factors
 - 4.2.1.1.3 Smart Crop Scouting Acreage (by Company)
 - 4.2.1.2 Business Challenges
 - 4.2.1.3 Business Drivers
 - 4.2.2 Application
 - 4.2.2.1 South America Smart Crop Scouting Market (by Application)
 - 4.2.2.2 South America Smart Spraying Market (by Application)
 - 4.2.3 Product
 - 4.2.3.1 South America Smart Crop Scouting Market (by Product)
 - 4.2.3.2 South America Smart Spraying Market (by Product)
 - 4.2.4 South America (by Country)
 - 4.2.4.1 Brazil
 - 4.2.4.1.1 Market
 - 4.2.4.1.1.1 Buyer Attributes
 - 4.2.4.1.1.1.1 Farm Size, Labor Availability, and State of Digitization in Agriculture
 - 4.2.4.1.1.1.2 Crop Pattern and Biotic and Abiotic Stress Factors
 - 4.2.4.1.1.2 Business Challenges
 - 4.2.4.1.1.3 Business Drivers
 - 4.2.4.1.2 Application
 - 4.2.4.1.2.1 Brazil Smart Crop Scouting Market (by Application)
 - 4.2.4.1.2.2 Brazil Smart Spraying Market (by Application)
 - 4.2.4.1.3 Product
 - 4.2.4.1.3.1 Brazil Smart Crop Scouting Market (by Product)
 - 4.2.4.1.3.2 Brazil Smart Spraying Market (by Product)
 - 4.2.4.2 Argentina
 - 4.2.4.2.1 Market
 - 4.2.4.2.1.1 Buyer Attributes
 - 4.2.4.2.1.1.1 Farm Size, Labor Availability, and State of Digitization in Agriculture

- 4.2.4.2.1.1.2 Crop Pattern and Biotic and Abiotic Stress Factors
- 4.2.4.2.1.2 Business Challenges
- 4.2.4.2.1.3 Business Drivers
- 4.2.4.2.2 Application
 - 4.2.4.2.2.1 Argentina Smart Crop Scouting Market (by Application)
 - 4.2.4.2.2.2 Argentina Smart Spraying Market (by Application)
- 4.2.4.2.3 Product
 - 4.2.4.2.3.1 Argentina Smart Crop Scouting Market (by Product)
 - 4.2.4.2.3.2 Argentina Smart Spraying Market (by Product)
- 4.2.4.3 Rest-of-South America
 - 4.2.4.3.1 Market
 - 4.2.4.3.1.1 Buyer Attributes
 - 4.2.4.3.1.1.1 Farm Size, Labor Availability, and State of Digitization in Agriculture
 - 4.2.4.3.1.1.2 Crop Pattern and Biotic and Abiotic Stress Factors
 - 4.2.4.3.1.1.3 Business Drivers
 - 4.2.4.3.1.2 Business Challenges
 - 4.2.4.3.1.3 Business Drivers
 - 4.2.4.3.2 Application
 - 4.2.4.3.2.1 Rest-of-South America Smart Crop Scouting Market (by Application)
 - 4.2.4.3.2.2 Rest-of-South America Smart Spraying Market (by Application)
 - 4.2.4.3.3 Product
 - 4.2.4.3.3.1 Rest-of-South America Smart Crop Scouting Market (by Product)
 - 4.2.4.3.3.2 Rest-of-South America Smart Spraying Market (by Product)
- 4.3 Europe
 - 4.3.1 Market
 - 4.3.1.1 Key Smart Crop Scouting and Smart Spraying Operators in Europe
 - 4.3.1.2 Buyer Attributes
 - 4.3.1.2.1 Farm Size, Labor Availability, and State of Digitization in Agriculture
 - 4.3.1.2.2 Crop Pattern and Biotic and Abiotic Stress Factors
 - 4.3.1.2.3 Smart Crop Scouting Acreage (by Company)
 - 4.3.1.3 Business Challenges
 - 4.3.1.4 Business Drivers
 - 4.3.2 Application
 - 4.3.2.1 Europe Smart Crop Scouting Market (by Application)
 - 4.3.2.2 Europe Smart Spraying Market (by Application)
 - 4.3.3 Product
 - 4.3.3.1 Europe Smart Crop Scouting Market (by Product)
 - 4.3.3.2 Europe Smart Spraying Market (by Product)
 - 4.3.4 Europe (by Country)
 - 4.3.4.1 Germany

- 4.3.4.1.1 Market
 - 4.3.4.1.1.1 Buyer Attributes
 - 4.3.4.1.1.1.1 Farm Size, Labor Availability, and State of Digitization in Agriculture
 - 4.3.4.1.1.1.2 Crop Pattern and Biotic and Abiotic Stress Factors
 - 4.3.4.1.1.2 Business Challenges
 - 4.3.4.1.1.3 Business Drivers
- 4.3.4.1.2 Application
 - 4.3.4.1.2.1 Germany Smart Crop Scouting Market (by Application)
 - 4.3.4.1.2.2 Germany Smart Spraying Market (by Application)
- 4.3.4.1.3 Product
 - 4.3.4.1.3.1 Germany Smart Crop Scouting Market (by Product)
 - 4.3.4.1.3.2 Germany Smart Spraying Market (by Product)
- 4.3.4.2 France
 - 4.3.4.2.1 Market
 - 4.3.4.2.1.1 Buyer Attributes
 - 4.3.4.2.1.1.1 Farm Size, Labor Availability, and State of Digitization in Agriculture
 - 4.3.4.2.1.1.2 Crop Pattern and Biotic and Abiotic Stress Factors
 - 4.3.4.2.1.2 Business Challenges
 - 4.3.4.2.1.3 Business Drivers
 - 4.3.4.2.2 Application
 - 4.3.4.2.2.1 France Smart Crop Scouting Market (by Application)
 - 4.3.4.2.2.2 France Smart Spraying Market (by Application)
 - 4.3.4.2.3 Product
 - 4.3.4.2.3.1 France Smart Crop Scouting Market (by Product)
 - 4.3.4.2.3.2 France Smart Spraying Market (by Product)
- 4.3.4.3 Italy
 - 4.3.4.3.1 Market
 - 4.3.4.3.1.1 Buyer Attributes
 - 4.3.4.3.1.1.1 Farm Size, Labor Availability, and State of Digitization in Agriculture
 - 4.3.4.3.1.1.2 Crop Pattern and Biotic and Abiotic Stress Factors
 - 4.3.4.3.1.2 Business Challenges
 - 4.3.4.3.1.3 Business Drivers
 - 4.3.4.3.2 Application
 - 4.3.4.3.2.1 Italy Smart Crop Scouting Market (by Application)
 - 4.3.4.3.2.2 Italy Smart Spraying Market (by Application)
 - 4.3.4.3.3 Product
 - 4.3.4.3.3.1 Italy Smart Crop Scouting Market (by Product)
 - 4.3.4.3.3.2 Italy Smart Spraying Market (by Product)
- 4.3.4.4 Netherlands

- 4.3.4.4.1 Market
 - 4.3.4.4.1.1 Buyer Attributes
 - 4.3.4.4.1.1.1 Farm Size, Labor Availability, and State of Digitization in Agriculture
 - 4.3.4.4.1.1.2 Crop Pattern and Biotic and Abiotic Stress Factors
 - 4.3.4.4.1.2 Business Challenges
 - 4.3.4.4.1.3 Business Drivers
- 4.3.4.4.2 Application
 - 4.3.4.4.2.1 Netherlands Smart Crop Scouting Market (by Application)
 - 4.3.4.4.2.2 Netherlands Smart Spraying Market (by Application)
- 4.3.4.4.3 Product
 - 4.3.4.4.3.1 Netherlands Smart Crop Scouting Market (by Product)
 - 4.3.4.4.3.2 Netherlands Smart Spraying Market (by Product)
- 4.3.4.5 Spain
 - 4.3.4.5.1 Market
 - 4.3.4.5.1.1 Buyer Attributes
 - 4.3.4.5.1.1.1 Farm Size, Labor Availability, and State of Digitization in Agriculture
 - 4.3.4.5.1.1.2 Crop Pattern and Biotic and Abiotic Stress Factors
 - 4.3.4.5.1.2 Business Challenges
 - 4.3.4.5.1.3 Business Drivers
 - 4.3.4.5.2 Application
 - 4.3.4.5.2.1 Spain Smart Crop Scouting Market (by Application)
 - 4.3.4.5.2.2 Spain Smart Spraying Market (by Application)
 - 4.3.4.5.3 Product
 - 4.3.4.5.3.1 Spain Smart Crop Scouting Market (by Product)
 - 4.3.4.5.3.2 Spain Smart Spraying Market (by Product)
- 4.3.4.6 Belgium
 - 4.3.4.6.1 Market
 - 4.3.4.6.1.1 Buyer Attributes
 - 4.3.4.6.1.1.1 Farm Size, Labor Availability, and State of Digitization in Agriculture
 - 4.3.4.6.1.1.2 Crop Pattern and Biotic and Abiotic Stress Factors
 - 4.3.4.6.1.2 Business Challenges
 - 4.3.4.6.1.3 Business Drivers
 - 4.3.4.6.2 Application
 - 4.3.4.6.2.1 Belgium Smart Crop Scouting Market (by Application)
 - 4.3.4.6.2.2 Belgium Smart Spraying Market (by Application)
 - 4.3.4.6.3 Product
 - 4.3.4.6.3.1 Belgium Smart Crop Scouting Market (by Product)
 - 4.3.4.6.3.2 Belgium Smart Spraying Market (by Product)
- 4.3.4.7 Switzerland

- 4.3.4.7.1 Market
 - 4.3.4.7.1.1 Buyer Attributes
 - 4.3.4.7.1.1.1 Farm Size, Labor Availability, and State of Digitization in Agriculture
 - 4.3.4.7.1.1.2 Crop Pattern and Biotic and Abiotic Stress Factors
 - 4.3.4.7.1.2 Business Challenges
 - 4.3.4.7.1.3 Business Drivers
- 4.3.4.7.2 Application
 - 4.3.4.7.2.1 Switzerland Smart Crop Scouting Market (by Application)
 - 4.3.4.7.2.2 Switzerland Smart Spraying Market (by Application)
- 4.3.4.7.3 Product
 - 4.3.4.7.3.1 Switzerland Smart Crop Scouting Market (by Product)
 - 4.3.4.7.3.2 Switzerland Smart Spraying Market (by Product)
- 4.3.4.8 Rest-of-Europe
 - 4.3.4.8.1 Market
 - 4.3.4.8.1.1 Buyer Attributes
 - 4.3.4.8.1.1.1 Farm Size, Labor Availability, and State of Digitization in Agriculture
 - 4.3.4.8.1.1.2 Crop Pattern and Biotic and Abiotic Stress Factors
 - 4.3.4.8.1.2 Business Challenges
 - 4.3.4.8.1.3 Business Drivers
 - 4.3.4.8.2 Application
 - 4.3.4.8.2.1 Rest-of-Europe Smart Crop Scouting Market (by Application)
 - 4.3.4.8.2.2 Rest-of-Europe Smart Spraying Market (by Application)
 - 4.3.4.8.3 Product
 - 4.3.4.8.3.1 Rest-of-Europe Smart Crop Scouting Market (by Product)
 - 4.3.4.8.3.2 Rest-of-Europe Smart Spraying Market (by Product)
- 4.4 U.K.
 - 4.4.1 Market
 - 4.4.1.1 Key Smart Crop Scouting and Smart Spraying Operators in the U.K.
 - 4.4.1.2 Business Challenges
 - 4.4.1.2.1 Farm Size, Labor Availability, and State of Digitization in Agriculture
 - 4.4.1.2.2 Crop Pattern and Biotic and Abiotic Stress Factors
 - 4.4.1.2.3 Smart Crop Scouting Acreage (by Company)
 - 4.4.1.3 Business Drivers
 - 4.4.2 Application
 - 4.4.2.1 U.K. Smart Crop Scouting Market (by Application)
 - 4.4.2.2 U.K. Smart Spraying Market (by Application)
 - 4.4.3 Product
 - 4.4.3.1 U.K. Smart Crop Scouting Market (by Product)
 - 4.4.3.2 U.K. Smart Spraying Market (by Product)

4.5 Middle East and Africa

4.5.1 Market

4.5.1.1 Key Smart Crop Scouting and Smart Spraying Operators in the Middle East and Africa

4.5.1.2 Buyer Attributes

4.5.1.2.1 Farm Size, Labor Availability, and State of Digitization in Agriculture

4.5.1.2.2 Crop Pattern and Biotic and Abiotic Stress Factors

4.5.1.2.3 Smart Crop Scouting Acreage (by Company)

4.5.1.3 Business Challenges

4.5.1.4 Business Drivers

4.5.2 Application

4.5.2.1 Middle East and Africa Smart Crop Scouting Market (by Application)

4.5.2.2 Middle East and Africa Smart Spraying Market (by Application)

4.5.3 Product

4.5.3.1 Middle East and Africa Smart Crop Scouting Market (by Product)

4.5.3.2 Middle East and Africa Smart Spraying Market (by Product)

4.5.4 Middle East and Africa (by Country)

4.5.4.1 South Africa

4.5.4.1.1 Market

4.5.4.1.1.1 Buyer Attributes

4.5.4.1.1.1.1 Farm Size, Labor Availability, and State of Digitization in Agriculture

4.5.4.1.1.1.2 Crop Pattern and Biotic and Abiotic Stress Factors

4.5.4.1.1.2 Business Challenges

4.5.4.1.1.3 Business Drivers

4.5.4.1.2 Application

4.5.4.1.2.1 South Africa Smart Crop Scouting Market (by Application)

4.5.4.1.2.2 South Africa Smart Spraying Market (by Application)

4.5.4.1.3 Product

4.5.4.1.3.1 South Africa Smart Crop Scouting Market (by Product)

4.5.4.1.3.2 South Africa Smart Spraying Market (by Product)

4.5.4.2 Israel

4.5.4.2.1 Market

4.5.4.2.1.1 Buyer Attributes

4.5.4.2.1.1.1 Farm Size, Labor Availability, and State of Digitization in Agriculture

4.5.4.2.1.1.2 Crop Pattern and Biotic and Abiotic Stress Factors

4.5.4.2.1.2 Business Challenges

4.5.4.2.1.3 Business Drivers

4.5.4.2.2 Application

4.5.4.2.2.1 Israel Smart Crop Scouting Market (by Application)

- 4.5.4.2.2.2 Israel Smart Spraying Market (by Application)
- 4.5.4.2.3 Product
 - 4.5.4.2.3.1 Israel Smart Crop Scouting Market (by Product)
 - 4.5.4.2.3.2 Israel Smart Spraying Market (by Product)
- 4.5.4.3 Turkey
 - 4.5.4.3.1 Market
 - 4.5.4.3.1.1 Buyer Attributes
 - 4.5.4.3.1.1.1 Farm Size, Labor Availability, and State of Digitization in Agriculture
 - 4.5.4.3.1.1.2 Crop Pattern and Biotic and Abiotic Stress Factors
 - 4.5.4.3.1.2 Business Challenges
 - 4.5.4.3.1.3 Business Drivers
 - 4.5.4.3.2 Application
 - 4.5.4.3.2.1 Turkey Smart Crop Scouting Market (by Application)
 - 4.5.4.3.2.2 Turkey Smart Spraying Market (by Application)
 - 4.5.4.3.3 Product
 - 4.5.4.3.3.1 Turkey Smart Crop Scouting Market (by Product)
 - 4.5.4.3.3.2 Turkey Smart Spraying Market (by Product)
- 4.5.4.4 Rest-of-Middle East and Africa
 - 4.5.4.4.1 Market
 - 4.5.4.4.1.1 Buyer Attributes
 - 4.5.4.4.1.1.1 Farm Size, Labor Availability, and State of Digitization in Agriculture
 - 4.5.4.4.1.1.2 Crop Pattern and Biotic and Abiotic Stress Factors
 - 4.5.4.4.1.2 Business Challenges
 - 4.5.4.4.1.3 Business Drivers
 - 4.5.4.4.2 Application
 - 4.5.4.4.2.1 Rest-of-MEA Smart Crop Scouting Market (by Application)
 - 4.5.4.4.2.2 Rest-of-MEA Smart Spraying Market (by Application)
 - 4.5.4.4.3 Product
 - 4.5.4.4.3.1 Rest-of-MEA Smart Crop Scouting Market (by Product)
 - 4.5.4.4.3.2 Rest-of-MEA Smart Spraying Market (by Product)
- 4.6 China
 - 4.6.1 Market
 - 4.6.1.1 Key Smart Crop Scouting and Smart Spraying Operators in China
 - 4.6.1.2 Buyer Attributes
 - 4.6.1.2.1 Farm Size, Labor Availability, and State of Digitization in Agriculture
 - 4.6.1.2.2 Crop Pattern and Biotic and Abiotic Stress Factors
 - 4.6.1.2.3 Smart Crop Scouting Acreage (by Company)
 - 4.6.1.3 Business Challenges
 - 4.6.1.4 Business Drivers

4.6.2 Application

4.6.2.1 China Smart Crop Scouting Market (by Application)

4.6.2.2 China Smart Spraying Market (by Application)

4.6.3 Product

4.6.3.1 China Smart Crop Scouting Market (by Product)

4.6.3.2 China Smart Spraying Market (by Product)

4.7 Asia-Pacific

4.7.1 Market

4.7.1.1 Key Smart Crop Scouting and Smart Spraying Operators in the Asia-Pacific

4.7.1.2 Buyer Attributes

4.7.1.2.1 Farm Size, Labor Availability, and State of Digitization in Agriculture

4.7.1.2.2 Crop Pattern and Biotic and Abiotic Stress Factors

4.7.1.2.3 Smart Crop Scouting Acreage (by Company)

4.7.1.3 Business Challenges

4.7.1.4 Business Drivers

4.7.2 Application

4.7.2.1 Asia-Pacific Smart Crop Scouting Market (by Application)

4.7.2.2 Asia-Pacific Smart Spraying Market (by Application)

4.7.3 Product

4.7.3.1 Asia-Pacific Smart Crop Scouting Market (by Product)

4.7.3.2 Asia-Pacific Smart Spraying Market (by Product)

4.7.4 Asia-Pacific (by Country)

4.7.4.1 Japan

4.7.4.1.1 Market

4.7.4.1.1.1 Buyer Attributes

4.7.4.1.1.1.1 Farm Size, Labor Availability, and State of Digitization in Agriculture

4.7.4.1.1.1.2 Crop Pattern and Biotic and Abiotic Stress Factors

4.7.4.1.1.2 Business Challenges

4.7.4.1.1.3 Business Drivers

4.7.4.1.2 Application

4.7.4.1.2.1 Japan Smart Crop Scouting Market (by Application)

4.7.4.1.2.2 Japan Smart Spraying Market (by Application)

4.7.4.1.3 Product

4.7.4.1.3.1 Japan Smart Crop Scouting Market (by Product)

4.7.4.1.3.2 Japan Smart Spraying Market (by Product)

4.7.4.2 India

4.7.4.2.1 Market

4.7.4.2.1.1 Buyer Attributes

4.7.4.2.1.1.1 Farm Size, Labor Availability, and State of Digitization in Agriculture

- 4.7.4.2.1.1.2 Crop Pattern and Biotic and Abiotic Stress Factors
- 4.7.4.2.1.2 Business Challenges
- 4.7.4.2.1.3 Business Drivers
- 4.7.4.2.2 Application
 - 4.7.4.2.2.1 India Smart Crop Scouting Market (by Application)
 - 4.7.4.2.2.2 India Smart Spraying Market (by Application)
- 4.7.4.2.3 Product
 - 4.7.4.2.3.1 India Smart Crop Scouting Market (by Product)
 - 4.7.4.2.3.2 India Smart Spraying Market (by Product)
- 4.7.4.3 South Korea
 - 4.7.4.3.1 Market
 - 4.7.4.3.1.1 Buyer Attributes
 - 4.7.4.3.1.1.1 Farm Size, Labor Availability, and State of Digitization in Agriculture
 - 4.7.4.3.1.1.2 Crop Pattern and Biotic and Abiotic Stress Factors
 - 4.7.4.3.1.2 Business Challenges
 - 4.7.4.3.1.3 Business Drivers
 - 4.7.4.3.2 Application
 - 4.7.4.3.2.1 South Korea Smart Crop Scouting Market (by Application)
 - 4.7.4.3.2.2 South Korea Smart Spraying Market (by Application)
 - 4.7.4.3.3 Product
 - 4.7.4.3.3.1 South Korea Smart Crop Scouting Market (by Product)
 - 4.7.4.3.3.2 South Korea Smart Spraying Market (by Product)
- 4.7.4.4 Australia and New Zealand
 - 4.7.4.4.1 Market
 - 4.7.4.4.1.1 Buyer Attributes
 - 4.7.4.4.1.1.1 Farm Size, Labor Availability, and State of Digitization in Agriculture
 - 4.7.4.4.1.1.2 Crop Pattern and Biotic and Abiotic Stress Factors
 - 4.7.4.4.1.2 Business Challenges
 - 4.7.4.4.1.3 Business Drivers
 - 4.7.4.4.2 Application
 - 4.7.4.4.2.1 Australia and New Zealand Smart Crop Scouting Market (by Application)
 - 4.7.4.4.2.2 Australia and New Zealand Smart Spraying Market (by Application)
 - 4.7.4.4.3 Product
 - 4.7.4.4.3.1 Australia and New Zealand Smart Crop Scouting Market (by Product)
 - 4.7.4.4.3.2 Australia and New Zealand Smart Spraying Market (by Product)
- 4.7.4.5 Rest-of-Asia-Pacific
 - 4.7.4.5.1 Market
 - 4.7.4.5.1.1 Buyer Attributes
 - 4.7.4.5.1.1.1 Farm Size, Labor Availability, and State of Digitization in Agriculture

- 4.7.4.5.1.1.2 Crop Pattern and Biotic and Abiotic Stress Factors
- 4.7.4.5.1.2 Business Challenges
- 4.7.4.5.1.3 Business Drivers
- 4.7.4.5.2 Application
 - 4.7.4.5.2.1 Rest-of-APAC Smart Crop Scouting Market (by Application)
 - 4.7.4.5.2.2 Rest-of-APAC Smart Spraying Market (by Application)
- 4.7.4.5.3 Product
 - 4.7.4.5.3.1 Rest-of-APAC Smart Crop Scouting Market (by Product)
 - 4.7.4.5.3.2 Rest-of-APAC Smart Spraying Market (by Product)

5 MARKET - COMPETITIVE BENCHMARKING AND COMPANY PROFILES

- 5.1 Competitive Benchmarking
 - 5.1.1 Competitive Position Matrix
 - 5.1.1.1 Smart Crop Scouting
 - 5.1.1.2 Smart Spraying Market
 - 5.1.2 Market Share Analysis
 - 5.1.2.1 Smart Crop Scouting Market
 - 5.1.2.2 Smart Spraying Market
- 5.2 Competitive Analysis
- 5.3 Company Profiles
 - 5.3.1 Smart Crop Scouting
 - 5.3.1.1 Semios
 - 5.3.1.1.1 Company Overview
 - 5.3.1.1.2 Role of Semios in Global Smart Crop Scouting and Smart Spraying Market
 - 5.3.1.1.3 Product Portfolio
 - 5.3.1.1.4 Customer Profile
 - 5.3.1.1.4.1 Target Customers
 - 5.3.1.1.4.2 Key Clients or Partners
 - 5.3.1.1.5 Corporate Strategies
 - 5.3.1.1.5.1 Mergers and Acquisitions
 - 5.3.1.1.6 Analyst View
 - 5.3.1.2 Bushel Inc
 - 5.3.1.2.1 Company Overview
 - 5.3.1.2.2 Role of Bushel Inc in Global Smart Crop Scouting and Smart Spraying Market
 - 5.3.1.2.3 Product Portfolio
 - 5.3.1.2.4 Customer Profile
 - 5.3.1.2.4.1 Target Customers
 - 5.3.1.2.4.2 Key Clients

5.3.1.2.5 Business Strategies

5.3.1.2.5.1 Product Developments

5.3.1.2.6 Analyst View

5.3.1.3 Climate LLC (Bayer Ag)

5.3.1.3.1 Company Overview

5.3.1.3.2 Role of Climate LLC in Global Smart Crop Scouting and Smart Spraying Market

5.3.1.3.3 Product Portfolio

5.3.1.3.4 Customer Profile

5.3.1.3.4.1 Target Customers

5.3.1.3.4.2 Key Clients

5.3.1.3.5 Corporate Strategies

5.3.1.3.5.1 Partnerships, Joint Ventures, Collaborations, and Alliances

5.3.1.3.6 Analyst View

5.3.1.4 BASF SE (xarvio)

5.3.1.4.1 Company Overview

5.3.1.4.2 Role of BASF SE (xarvio) in Global Smart Crop Scouting and Smart Spraying Market

5.3.1.4.3 Product Portfolio

5.3.1.4.4 Customer Profile

5.3.1.4.4.1 Target Customers

5.3.1.4.4.2 Key Clients

5.3.1.4.5 Business Strategies

5.3.1.4.5.1 Product Developments

5.3.1.4.6 Corporate Strategies

5.3.1.4.6.1 Partnerships, Joint Ventures, Collaborations, and Alliances

5.3.1.4.7 Analyst View

5.3.1.5 Cropin Technology Solutions Private Limited

5.3.1.5.1 Company Overview

5.3.1.5.2 Role of Cropin Technology Solutions Private Limited in Global Smart Crop Scouting and Smart Spraying Market

5.3.1.5.3 Product Portfolio

5.3.1.5.4 Customer Profile

5.3.1.5.4.1 Target Customers

5.3.1.5.4.2 Key Clients

5.3.1.5.5 Business Strategies

5.3.1.5.5.1 Product Developments

5.3.1.5.6 Corporate Strategies

5.3.1.5.6.1 Partnerships, Joint Ventures, Collaborations, and Alliances

5.3.1.5.7 Analyst View

5.3.1.6 Corteva

5.3.1.6.1 Company Overview

5.3.1.6.2 Role of Corteva in Global Smart Crop Scouting and Smart Spraying Market

5.3.1.6.3 Product Portfolio

5.3.1.6.4 Customer Profile

5.3.1.6.4.1 Target Customers

5.3.1.6.5 Analyst View

5.3.1.7 Syngenta

5.3.1.7.1 Company Overview

5.3.1.7.2 Role of Syngenta in Global Smart Crop Scouting and Smart Spraying Market

5.3.1.7.3 Product Portfolio

5.3.1.7.4 Customer Profile

5.3.1.7.4.1 Target Customers

5.3.1.7.5 Business Strategies

5.3.1.7.5.1 Market Developments

5.3.1.7.5.2 Product Developments

5.3.1.7.6 Analyst View

5.3.1.8 Telus Agriculture & Consumer Goods

5.3.1.8.1 Company Overview

5.3.1.8.2 Role of Telus Agriculture & Consumer Goods in Global Smart Crop Scouting and Smart Spraying Market

5.3.1.8.3 Product Portfolio

5.3.1.8.4 Customer Profile

5.3.1.8.4.1 Target Customers

5.3.1.8.4.2 Key Clients

5.3.1.8.5 Corporate Strategies

5.3.1.8.5.1 Mergers and Acquisitions

5.3.1.8.6 Analyst View

5.3.1.9 Taranis

5.3.1.9.1 Company Overview

5.3.1.9.2 Role of Taranis in Global Smart Crop Scouting and Smart Spraying Market

5.3.1.9.3 Product Portfolio

5.3.1.9.4 Customer Profile

5.3.1.9.4.1 Target Customers

5.3.1.9.4.2 Key Clients

5.3.1.9.5 Business Strategies

5.3.1.9.5.1 Market Development

5.3.1.9.6 Corporate Strategies

- 5.3.1.9.6.1 Partnerships, Joint Ventures, Collaborations, and Alliances
- 5.3.1.9.7 Analyst View
- 5.3.2 Smart Spraying
 - 5.3.2.1 AGCO Corporation
 - 5.3.2.1.1 Company Overview
 - 5.3.2.1.2 Role of AGCO Corporation in Global Smart Crop Scouting and Smart Spraying Market
 - 5.3.2.1.3 Product Portfolio
 - 5.3.2.1.4 Customer Profile
 - 5.3.2.1.4.1 Target Customers
 - 5.3.2.1.4.2 Key Clients
 - 5.3.2.1.5 Business Strategies
 - 5.3.2.1.5.1 Market Developments
 - 5.3.2.1.6 Corporate Strategies
 - 5.3.2.1.6.1 Partnerships, Joint Ventures, Collaborations, and Alliances
 - 5.3.2.1.7 Analyst View
 - 5.3.2.2 Deere & Company
 - 5.3.2.2.1 Company Overview
 - 5.3.2.2.2 Role of Deere & Company in the Global Smart Crop Scouting and Smart Spraying Market
 - 5.3.2.2.3 Product Portfolio
 - 5.3.2.2.4 Customer Profile
 - 5.3.2.2.4.1 Target Customers
 - 5.3.2.2.4.2 Key Clients or Partners
 - 5.3.2.2.5 Business Strategies
 - 5.3.2.2.5.1 Market Developments
 - 5.3.2.2.5.2 Product Developments
 - 5.3.2.2.6 Corporate Strategies
 - 5.3.2.2.6.1 Partnerships, Joint Ventures, Collaborations, and Alliances
 - 5.3.2.2.6.2 Mergers and Acquisitions
 - 5.3.2.2.7 Analyst View
 - 5.3.2.3 WEED-IT
 - 5.3.2.3.1 Company Overview
 - 5.3.2.3.2 Role of WEED-IT in Global Smart Crop Scouting and Smart Spraying Market
 - 5.3.2.3.3 Product Portfolio
 - 5.3.2.3.4 Customer Profile
 - 5.3.2.3.4.1 Target Customers
 - 5.3.2.3.4.2 Key Clients
 - 5.3.2.3.5 Business Strategies

- 5.3.2.3.5.1 Product Developments
- 5.3.2.3.6 Analyst View
- 5.3.2.4 Precision AI Inc
 - 5.3.2.4.1 Company Overview
 - 5.3.2.4.2 Role of Precision AI Inc in the Smart Crop Scouting and Smart Spraying Market
 - 5.3.2.4.3 Product Portfolio
 - 5.3.2.4.3.1 Target Customers
 - 5.3.2.4.3.2 Key Clients
 - 5.3.2.4.4 Corporate Strategies
 - 5.3.2.4.4.1 Partnerships, Joint Ventures, Collaborations, and Alliances
 - 5.3.2.4.5 Analyst View
- 5.3.2.5 HARDI
 - 5.3.2.5.1 Company Overview
 - 5.3.2.5.2 Role of HARDI in Global Smart Crop Scouting and Smart Spraying Market
 - 5.3.2.5.3 Product Portfolio
 - 5.3.2.5.4 Customer Profile
 - 5.3.2.5.4.1 Target Customers
 - 5.3.2.5.5 Corporate Strategies
 - 5.3.2.5.5.1 Partnerships, Joint Ventures, Collaborations, and Alliances
 - 5.3.2.5.6 Analyst View
- 5.3.2.6 Agrifac Machinery B.V.
 - 5.3.2.6.1 Company Overview
 - 5.3.2.6.2 Role of Agrifac Machinery B.V. in Global Smart Crop Scouting and Smart Spraying Market
 - 5.3.2.6.3 Product Portfolio
 - 5.3.2.6.4 Customer Profile
 - 5.3.2.6.4.1 Target Customers
 - 5.3.2.6.4.2 Key Clients
 - 5.3.2.6.5 Business Strategies
 - 5.3.2.6.5.1 Product Developments
 - 5.3.2.6.6 Corporate Strategies
 - 5.3.2.6.6.1 Partnerships, Joint Ventures, Collaborations, and Alliances
 - 5.3.2.6.7 Analyst View
- 5.3.2.7 Ecorobotix SA
 - 5.3.2.7.1 Company Overview
 - 5.3.2.7.2 Role of Ecorobotix SA in Global Smart Crop Scouting and Smart Spraying Market
 - 5.3.2.7.3 Product Portfolio

- 5.3.2.7.4 Customer Profile
 - 5.3.2.7.4.1 Target Customers
- 5.3.2.7.5 Business Strategies
 - 5.3.2.7.5.1 Product Developments
- 5.3.2.7.6 Analyst View
- 5.3.2.8 BA Pumps & Sprayers
 - 5.3.2.8.1 Company Overview
 - 5.3.2.8.2 Role of BA Pumps & Sprayers in Global Smart Crop Scouting and Smart Spraying Market
 - 5.3.2.8.3 Product Portfolio
 - 5.3.2.8.4 Customer Profile
 - 5.3.2.8.4.1 Target Customers
 - 5.3.2.8.5 Analyst View
- 5.3.3 Smart Crop Scouting and Smart Spraying
 - 5.3.3.1 Trimble Inc
 - 5.3.3.1.1 Company Overview
 - 5.3.3.1.2 Role of Trimble Inc in Global Smart Crop Scouting and Smart Spraying Market
 - 5.3.3.1.3 Product Portfolio
 - 5.3.3.1.4 Customer Profile
 - 5.3.3.1.4.1 Target Customers
 - 5.3.3.1.4.2 Key Clients
 - 5.3.3.1.5 Corporate Strategies
 - 5.3.3.1.5.1 Partnerships, Joint Ventures, Collaborations, and Alliances
 - 5.3.3.1.5.2 Mergers and Acquisitions
 - 5.3.3.1.6 Analyst View
 - 5.3.3.2 Greeneye Technology
 - 5.3.3.2.1 Company Overview
 - 5.3.3.2.2 Role of Greeneye Technology in Global Smart Crop Scouting and Smart Spraying Market
 - 5.3.3.2.3 Product Portfolio
 - 5.3.3.2.4 Customer Profile
 - 5.3.3.2.4.1 Target Customers
 - 5.3.3.2.4.2 Key Clients or Partners
 - 5.3.3.2.5 Business Strategies
 - 5.3.3.2.5.1 Product Developments
 - 5.3.3.2.6 Corporate Strategies
 - 5.3.3.2.6.1 Partnerships, Joint Ventures, Collaborations, and Alliances
 - 5.3.3.2.7 Analyst View
 - 5.3.3.3 Agridrones Solutions

5.3.3.3.1 Company Overview

5.3.3.3.2 Role of Agridrones Solutions in Global Smart Crop Scouting and Smart Spraying Market

5.3.3.3.3 Product Portfolio

5.3.3.3.4 Customer Profile

5.3.3.3.4.1 Target Customers

5.3.3.3.5 Analyst View

6 RESEARCH METHODOLOGY

6.1 Data Sources

6.1.1 Primary Data Sources

6.1.2 Secondary Data Sources

6.1.3 Data Triangulation

6.2 Market Estimation and Forecast

List Of Figures

LIST OF FIGURES

Figure 1: Factors Affecting Global Crop Production

Figure 2: Global Smart Scouting and Smart Spraying Market, \$Billion, 2022-2028

Figure 3: Market Dynamics for Global Smart Scouting and Smart Spraying Market

Figure 4: Global Smart Crop Scouting and Smart Spraying Market, \$Billion, 2022-2028
(by Application)

Figure 5: Global Smart Crop Scouting Market, \$Billion, 2022-2028 (by Application)

Figure 6: Global Smart Spraying Market, \$Billion, 2022-2028 (by Application)

Figure 7: Global Smart Crop Scouting Market, \$Billion, 2022-2028 (by Product)

Figure 8: Global Smart Spraying Market, \$Billion, 2022-2028 (by Product)

Figure 9: Global Smart Crop Scouting and Smart Spraying Market (by Region)

Figure 10: Global Smart Scouting and Smart Spraying Market Coverage

Figure 11: Number of People Employed in Agriculture, 2006-2019

Figure 12: Global Area Under Organic Agriculture and Organic Share, 1999-2019

Figure 13: Share of Key Market Strategies and Developments, 2019-2023

Figure 14: Product Development and Innovations (by Company)

Figure 15: Business Expansion (by Company)

Figure 16: Partnerships, Collaborations, Alliances, and Joint Ventures (by Company)
2019-2023

Figure 17: Mergers and Acquisitions (by Company)

Figure 18: Snapshot of Corporate Strategies Adopted by Key Players, January
2019-March 2023

Figure 19: See & Spray Ultimate Sprayer Case Study

Figure 20: 5G Connected Autonomous Robots by KPN and AGROiNTELLi

Figure 21: DJI Drone-Based Roden Control Case Study

Figure 22: Investment and Funding in Global Smart Crop Scouting and Smart Spraying
Market, January 2018 – May 2023

Figure 23: Share of Top Investors in Global Smart Crop Scouting and Smart Spraying
Market, January 2018 – May 2023

Figure 24: Smart Crop Scouting and Smart Spraying Funding Analysis by Country

Figure 25: Global Smart Crop Scouting Market (by Application)

Figure 26: Global Smart Spraying Market (by Application)

Figure 27: Global Smart Crop Scouting Market (by Product)

Figure 28: Global Smart Spraying Market (by Product)

Figure 29: Supply Chain Analysis of Global Smart Crop Scouting and Smart Spraying
Market

- Figure 30: Information-Based Management Cycle for Advanced Agriculture
- Figure 31: Adoption Curve
- Figure 32: Patent Analysis (by Application), January 2018-December 2022
- Figure 33: Patent Analysis (by Organization), January 2018-December 2022
- Figure 34: Patent Analysis (by Patent Office), January 2018-December 2022
- Figure 35: Farm Size, Labor Availability, and State of Digitization in Agriculture
- Figure 36: Crop Pattern and Biotic and Abiotic Stress Factors
- Figure 37: Smart Crop Scouting Acreage (by Company)
- Figure 38: Farm Size, Labor Availability, and State of Digitization in Agriculture
- Figure 39: Crop Pattern and Biotic and Abiotic Stress Factors
- Figure 40: Farm Size, Labor Availability, and State of Digitization in Agriculture
- Figure 41: Crop Pattern and Biotic and Abiotic Stress Factors
- Figure 42: Farm Size, Labor Availability, and State of Digitization in Agriculture
- Figure 43: Crop Pattern and Biotic and Abiotic Stress Factors
- Figure 44: Farm Size, Labor Availability, and State of Digitization in Agriculture
- Figure 45: Crop Pattern and Biotic and Abiotic Stress Factors
- Figure 46: Smart Crop Scouting Acreage (by Company)
- Figure 47: Farm Size, Labor Availability, and State of Digitization in Agriculture
- Figure 48: Crop Pattern and Biotic and Abiotic Stress Factors
- Figure 49: Farm Size, Labor Availability, and State of Digitization in Agriculture
- Figure 50: Crop Pattern and Biotic and Abiotic Stress Factors
- Figure 51: Farm Size, Labor Availability, and State of Digitization in Agriculture
- Figure 52: Crop Pattern and Biotic and Abiotic Stress Factors
- Figure 53: Farm Size, Labor Availability, and State of Digitization in Agriculture
- Figure 54: Crop Pattern and Biotic and Abiotic Stress Factors
- Figure 55: Smart Crop Scouting Acreage (by Company)
- Figure 56: Farm Size, Labor Availability, and State of Digitization in Agriculture
- Figure 57: Crop Pattern and Biotic and Abiotic Stress Factors
- Figure 58: Farm Size, Labor Availability, and State of Digitization in Agriculture
- Figure 59: Crop Pattern and Biotic and Abiotic Stress Factors
- Figure 60: Farm Size, Labor Availability, and State of Digitization in Agriculture
- Figure 61: Crop Pattern and Biotic and Abiotic Stress Factors
- Figure 62: Farm Size, Labor Availability, and State of Digitization in Agriculture
- Figure 63: Crop Pattern and Biotic and Abiotic Stress Factors
- Figure 64: Farm Size, Labor Availability, and State of Digitization in Agriculture
- Figure 65: Crop Pattern and Biotic and Abiotic Stress Factors
- Figure 66: Farm Size, Labor Availability, and State of Digitization in Agriculture
- Figure 67: Crop Pattern and Biotic and Abiotic Stress Factors
- Figure 68: Farm Size, Labor Availability, and State of Digitization in Agriculture

- Figure 69: Crop Pattern and Biotic and Abiotic Stress Factors
- Figure 70: Farm Size, Labor Availability, and State of Digitization in Agriculture
- Figure 71: Crop Pattern and Biotic and Abiotic Stress Factors
- Figure 72: Farm Size, Labor Availability, and State of Digitization in Agriculture
- Figure 73: Crop Pattern and Biotic and Abiotic Stress Factors
- Figure 74: Smart Crop Scouting Acreage (by Company)
- Figure 75: Farm Size, Labor Availability, and State of Digitization in Agriculture
- Figure 76: Crop Pattern and Biotic and Abiotic Stress Factors
- Figure 77: Smart Crop Scouting Acreage (by Company)
- Figure 78: Farm Size, Labor Availability, and State of Digitization in Agriculture
- Figure 79: Crop Pattern and Biotic and Abiotic Stress Factors
- Figure 80: Farm Size, Labor Availability, and State of Digitization in Agriculture
- Figure 81: Crop Pattern and Biotic and Abiotic Stress Factors
- Figure 82: Farm Size, Labor Availability, and State of Digitization in Agriculture
- Figure 83: Crop Pattern and Biotic and Abiotic Stress Factors
- Figure 84: Farm Size, Labor Availability, and State of Digitization in Agriculture
- Figure 85: Crop Pattern and Biotic and Abiotic Stress Factors
- Figure 86: Farm Size, Labor Availability, and State of Digitization in Agriculture
- Figure 87: Crop Pattern and Biotic and Abiotic Stress Factors
- Figure 88: Smart Crop Scouting Acreage (by Company)
- Figure 89: Farm Size, Labor Availability, and State of Digitization in Agriculture
- Figure 90: Crop Pattern and Biotic and Abiotic Stress Factors
- Figure 91: Smart Crop Scouting Acreage (by Company)
- Figure 92: Farm Size, Labor Availability, and State of Digitization in Agriculture
- Figure 93: Crop Pattern and Biotic and Abiotic Stress Factors
- Figure 94: Farm Size, Labor Availability, and State of Digitization in Agriculture
- Figure 95: Crop Pattern and Biotic and Abiotic Stress Factors
- Figure 96: Farm Size, Labor Availability, and State of Digitization in Agriculture
- Figure 97: Crop Pattern and Biotic and Abiotic Stress Factors
- Figure 98: Farm Size, Labor Availability, and State of Digitization in Agriculture (Australia)
- Figure 99: Farm Size, Labor Availability, and State of Digitization in Agriculture (New Zealand)
- Figure 100: Crop Pattern and Biotic and Abiotic Stress Factors
- Figure 101: Farm Size, Labor Availability, and State of Digitization in Agriculture
- Figure 102: Crop Pattern and Biotic and Abiotic Stress Factors
- Figure 103: Competitive Market: High and Low Matrix for Smart Crop Scouting Market
- Figure 104: Competitive Market: High and Low Matrix for Smart Spraying Market
- Figure 105: Market Share Analysis of Smart Crop Scouting Companies, 2022

Figure 106: Market Share Analysis of Smart Spraying Companies, 2022

Figure 107: Data Triangulation

Figure 108: Top-Down and Bottom-Up Approach

Figure 109: Assumptions and Limitations

List Of Tables

LIST OF TABLES

Table 1: Key Weed Detection Systems

Table 2: Key Disease and Damage Detection Systems

Table 3: Key Pest Detection Systems

Table 4: Key Nutrient Analysis Systems

Table 5: Key Other Systems

Table 6: Global Smart Crop Scouting Market (by Application), \$Million, 2022-2028

Table 7: Key Nutrient Application Systems

Table 8: Key Crop Protection Application Systems

Table 9: Key Other Systems

Table 10: Global Smart Spraying Market (by Application), \$Million, 2022-2028

Table 11: Global Smart Spraying Market (by Equipment Scouting), Units, 2022-2028

Table 12: Global Smart Spraying Market (by Equipment Scouting), \$Million, 2022-2028

Table 13: Global Smart Spraying Market (by Software Scouting), \$Million, 2022-2028

Table 14: Global Smart Spraying Market (by Product), Units, 2022-2028

Table 15: Global Smart Spraying Market (by Product), \$Million, 2022-2028

Table 16: Global Smart Crop Scouting and Smart Spraying Market (by Region), \$Million, 2022-2028

Table 17: North America Smart Crop Scouting Market (by Application), \$Million, 2022-2028

Table 18: North America Smart Spraying Market (by Application), \$Million, 2022-2028

Table 19: North America Smart Crop Scouting Market (by Equipment), Units, 2022-2028

Table 20: North America Smart Crop Scouting Market (by Equipment), \$Million, 2022-2028

Table 21: North America Smart Crop Scouting Market (by Software), \$Million, 2022-2028

Table 22: North America Smart Spraying Market (by Product), Units, 2022-2028

Table 23: North America Smart Spraying Market (by Product), \$Million, 2022-2028

Table 24: U.S. Smart Crop Scouting Market (by Application), \$Million, 2022-2028

Table 25: U.S. Smart Spraying Market (by Application), \$Million, 2022-2028

Table 26: U.S. Smart Crop Scouting Market (by Equipment), Units, 2022-2028

Table 27: U.S. Smart Crop Scouting Market (by Equipment), \$Million, 2022-2028

Table 28: U.S. Smart Crop Scouting Market (by Software), \$Million, 2022-2028

Table 29: U.S. Smart Spraying Market (by Product), Units, 2022-2028

Table 30: U.S. Smart Spraying Market (by Product), \$Million, 2022-2028

Table 31: Canada Smart Crop Scouting Market (by Application), \$Million, 2022-2028

- Table 32: Canada Smart Spraying Market (by Application), \$Million, 2022-2028
- Table 33: Canada Smart Crop Scouting Market (by Equipment), Units, 2022-2028
- Table 34: Canada Smart Crop Scouting Market (by Equipment), \$Million, 2022-2028
- Table 35: Canada Smart Crop Scouting Market (by Software), \$Million, 2022-2028
- Table 36: Canada Smart Spraying Market (by Product), Units, 2022-2028
- Table 37: Canada Smart Spraying Market (by Product), \$Million, 2022-2028
- Table 38: Mexico Smart Crop Scouting Market (by Application), \$Million, 2022-2028
- Table 39: Mexico Smart Spraying Market (by Application), \$Million, 2022-2028
- Table 40: Mexico Smart Crop Scouting Market (by Equipment), Units, 2022-2028
- Table 41: Mexico Smart Crop Scouting Market (by Equipment), \$Million, 2022-2028
- Table 42: Mexico Smart Crop Scouting Market (by Software), \$Million, 2022-2028
- Table 43: Mexico Smart Spraying Market (by Product), Units, 2022-2028
- Table 44: Mexico Smart Spraying Market (by Product), \$Million, 2022-2028
- Table 45: South America Smart Crop Scouting Market (by Application), \$Million, 2022-2028
- Table 46: South America Smart Spraying Market (by Application), \$Million, 2022-2028
- Table 47: South America Smart Crop Scouting Market (by Equipment), Units, 2022-2028
- Table 48: South America Smart Crop Scouting Market (by Equipment), \$Million, 2022-2028
- Table 49: South America Smart Crop Scouting Market (by Software), \$Million, 2022-2028
- Table 50: South America Smart Spraying Market (by Product), Units, 2022-2028
- Table 51: South America Smart Spraying Market (by Product), \$Million, 2022-2028
- Table 52: Brazil Smart Crop Scouting Market (by Application), \$Million, 2022-2028
- Table 53: Brazil Smart Spraying Market (by Application), \$Million, 2022-2028
- Table 54: Brazil Smart Crop Scouting Market (by Equipment), Units, 2022-2028
- Table 55: Brazil Smart Crop Scouting Market (by Equipment), \$Million, 2022-2028
- Table 56: Brazil Smart Crop Scouting Market (by Software), \$Million, 2022-2028
- Table 57: Brazil Smart Spraying Market (by Product), Units, 2022-2028
- Table 58: Brazil Smart Spraying Market (by Product), \$Million, 2022-2028
- Table 59: Argentina Smart Crop Scouting Market (by Application), \$Million, 2022-2028
- Table 60: Argentina Smart Spraying Market (by Application), \$Million, 2022-2028
- Table 61: Argentina Smart Crop Scouting Market (by Equipment), Units, 2022-2028
- Table 62: Argentina Smart Crop Scouting Market (by Equipment), \$Million, 2022-2028
- Table 63: Argentina Smart Crop Scouting Market (by Software), \$Million, 2022-2028
- Table 64: Argentina Smart Spraying Market (by Product), Units, 2022-2028
- Table 65: Argentina Smart Spraying Market (by Product), \$Million, 2022-2028
- Table 66: Rest-of-South America Smart Crop Scouting Market (by Application), \$Million,

2022-2028

Table 67: Rest-of-South America Smart Spraying Market (by Application), \$Million, 2022-2028

Table 68: Rest-of-South America Smart Crop Scouting Market (by Equipment), Units, 2022-2028

Table 69: Rest-of-South America Smart Crop Scouting Market (by Equipment), \$Million, 2022-2028

Table 70: Rest-of-South America Smart Crop Scouting Market (by Software), \$Million, 2022-2028

Table 71: Rest-of-South America Smart Spraying Market (by Product), Units, 2022-2028

Table 72: Rest-of-South America Smart Spraying Market (by Product), \$Million, 2022-2028

Table 73: Europe Smart Crop Scouting Market (by Application), \$Million, 2022-2028

Table 74: Europe Smart Spraying Market (by Application), \$Million, 2022-2028

Table 75: Europe Smart Crop Scouting Market (by Equipment), Units, 2022-2028

Table 76: Europe Smart Crop Scouting Market (by Equipment), \$Million, 2022-2028

Table 77: Europe Smart Crop Scouting Market (by Software), \$Million, 2022-2028

Table 78: Europe Smart Spraying Market (by Product), Units, 2022-2028

Table 79: Europe Smart Spraying Market (by Product), \$Million, 2022-2028

Table 80: Germany Smart Crop Scouting Market (by Application), \$Million, 2022-2028

Table 81: Germany Smart Spraying Market (by Application), \$Million, 2022-2028

Table 82: Germany Smart Crop Scouting Market (by Equipment), Units, 2022-2028

Table 83: Germany Smart Crop Scouting Market (by Equipment), \$Million, 2022-2028

Table 84: Germany Smart Crop Scouting Market (by Software), \$Million, 2022-2028

Table 85: Germany Smart Spraying Market (by Product), Units, 2022-2028

Table 86: Germany Smart Spraying Market (by Product), \$Million, 2022-2028

Table 87: France Smart Crop Scouting Market (by Application), \$Million, 2022-2028

Table 88: France Smart Spraying Market (by Application), \$Million, 2022-2028

Table 89: France Smart Crop Scouting Market (by Equipment), Units, 2022-2028

Table 90: France Smart Crop Scouting Market (by Equipment), \$Million, 2022-2028

Table 91: France Smart Crop Scouting Market (by Software), \$Million, 2022-2028

Table 92: France Smart Spraying Market (by Product), Units, 2022-2028

Table 93: France Smart Spraying Market (by Product), \$Million, 2022-2028

Table 94: Italy Smart Crop Scouting Market (by Application), \$Million, 2022-2028

Table 95: Italy Smart Spraying Market (by Application), \$Million, 2022-2028

Table 96: Italy Smart Crop Scouting Market (by Equipment), Units, 2022-2028

Table 97: Italy Smart Crop Scouting Market (by Equipment), \$Million, 2022-2028

Table 98: Italy Smart Crop Scouting Market (by Software), \$Million, 2022-2028

Table 99: Italy Smart Spraying Market (by Product), Units, 2022-2028

Table 100: Italy Smart Spraying Market (by Product), \$Million, 2022-2028

Table 101: Netherlands Smart Crop Scouting Market (by Application), \$Million, 2022-2028

Table 102: Netherlands Smart Spraying Market (by Application), \$Million, 2022-2028

Table 103: Netherlands Smart Crop Scouting Market (by Equipment), Units, 2022-2028

Table 104: Netherlands Smart Crop Scouting Market (by Equipment), \$Million, 2022-2028

Table 105: Netherlands Smart Crop Scouting Market (by Software), \$Million, 2022-2028

Table 106: Netherlands Smart Spraying Market (by Product), Units, 2022-2028

Table 107: Netherlands Smart Spraying Market (by Product), \$Million, 2022-2028

Table 108: Spain Smart Crop Scouting Market (by Application), \$Million, 2022-2028

Table 109: Spain Smart Spraying Market (by Application), \$Million, 2022-2028

Table 110: Spain Smart Crop Scouting Market (by Equipment), Units, 2022-2028

Table 111: Spain Smart Crop Scouting Market (by Equipment), \$Million, 2022-2028

Table 112: Spain Smart Crop Scouting Market (by Software), \$Million, 2022-2028

Table 113: Spain Smart Spraying Market (by Product), Units, 2022-2028

Table 114: Spain Smart Spraying Market (by Product), \$Million, 2022-2028

Table 115: Belgium Smart Crop Scouting Market (by Application), \$Million, 2022-2028

Table 116: Belgium Smart Spraying Market (by Application), \$Million, 2022-2028

Table 117: Belgium Smart Crop Scouting Market (by Equipment), Units, 2022-2028

Table 118: Belgium Smart Crop Scouting Market (by Equipment), \$Million, 2022-2028

Table 119: Belgium Smart Crop Scouting Market (by Software), \$Million, 2022-2028

Table 120: Belgium Smart Spraying Market (by Product), Units, 2022-2028

Table 121: Belgium Smart Spraying Market (by Product), \$Million, 2022-2028

Table 122: Switzerland Smart Crop Scouting Market (by Application), \$Million, 2022-2028

Table 123: Switzerland Smart Spraying Market (by Application), \$Million, 2022-2028

Table 124: Switzerland Smart Crop Scouting Market (by Equipment), Units 2022-2028

Table 125: Switzerland Smart Crop Scouting Market (by Equipment), \$Million, 2022-2028

Table 126: Switzerland Smart Crop Scouting Market (by Software), \$Million, 2022-2028

Table 127: Switzerland Smart Spraying Market (by Product), Units, 2022-2028

Table 128: Switzerland Smart Spraying Market (by Product), \$Million, 2022-2028

Table 129: Rest-of-Europe Smart Crop Scouting Market (by Application), \$Million, 2022-2028

Table 130: Rest-of-Europe Smart Spraying Market (by Application), \$Million, 2022-2028

Table 131: Rest-of-Europe Smart Crop Scouting Market (by Equipment), Units, 2022-2028

Table 132: Rest-of-Europe Smart Crop Scouting Market (by Equipment), \$Million,

2022-2028

Table 133: Rest-of-Europe Smart Crop Scouting Market (by Software), \$Million, 2022-2028

Table 134: Rest-of-Europe Smart Spraying Market (by Product), Units, 2022-2028

Table 135: Rest-of-Europe Smart Spraying Market (by Product), \$Million, 2022-2028

Table 136: U.K. Smart Crop Scouting Market (by Application), \$Million, 2022-2028

Table 137: U.K. Smart Spraying Market (by Application), \$Million, 2022-2028

Table 138: U.K. Smart Crop Scouting Market (by Equipment), Units, 2022-2028

Table 139: U.K. Smart Crop Scouting Market (by Equipment), \$Million, 2022-2028

Table 140: U.K. Smart Crop Scouting Market (by Software), \$Million, 2022-2028

Table 141: U.K. Smart Spraying Market (by Product), Units, 2022-2028

Table 142: U.K. Smart Spraying Market (by Product), \$Million, 2022-2028

Table 143: Middle East and Africa Smart Crop Scouting Market (by Application), \$Million, 2022-2028

Table 144: Middle East and Africa Smart Spraying Market (by Application), \$Million, 2022-2028

Table 145: Middle East and Africa Smart Crop Scouting Market (by Equipment), Units, 2022-2028

Table 146: Middle East and Africa Smart Crop Scouting Market (by Equipment), \$Million, 2022-2028

Table 147: Middle East and Africa Smart Crop Scouting Market (by Software), \$Million, 2022-2028

Table 148: Middle East and Africa Smart Spraying Market (by Product), Units, 2022-2028

Table 149: Middle East and Africa Smart Spraying Market (by Product), \$Million, 2022-2028

Table 150: South Africa Smart Crop Scouting Market (by Application), \$Million, 2022-2028

Table 151: South Africa Smart Spraying Market (by Application), \$Million, 2022-2028

Table 152: South Africa Smart Crop Scouting Market (by Equipment), Units, 2022-2028

Table 153: South Africa Smart Crop Scouting Market (by Equipment), \$Million, 2022-2028

Table 154: South Africa Smart Crop Scouting Market (by Software), \$Million, 2022-2028

Table 155: South Africa Smart Spraying Market (by Product), Units, 2022-2028

Table 156: South Africa Smart Spraying Market (by Product), \$Million, 2022-2028

Table 157: Israel Smart Crop Scouting Market (by Application), \$Million, 2022-2028

Table 158: Israel Smart Spraying Market (by Application), \$Million, 2022-2028

Table 159: Israel Smart Crop Scouting Market (by Equipment), Units, 2022-2028

Table 160: Israel Smart Crop Scouting Market (by Equipment), \$Million, 2022-2028

- Table 161: Israel Smart Crop Scouting Market (by Software), \$Million, 2022-2028
- Table 162: Israel Smart Spraying Market (by Product), Units, 2022-2028
- Table 163: Israel Smart Spraying Market (by Product), \$Million, 2022-2028
- Table 164: Turkey Smart Crop Scouting Market (by Application), \$Million, 2022-2028
- Table 165: Turkey Smart Spraying Market (by Application), \$Million, 2022-2028
- Table 166: Turkey Smart Crop Scouting Market (by Equipment), Units, 2022-2028
- Table 167: Turkey Smart Crop Scouting Market (by Equipment), \$Million, 2022-2028
- Table 168: Turkey Smart Crop Scouting Market (by Software), \$Million, 2022-2028
- Table 169: Turkey Smart Spraying Market (by Product), Units, 2022-2028
- Table 170: Turkey Smart Spraying Market (by Product), \$Million, 2022-2028
- Table 171: Rest-of-MEA Smart Crop Scouting Market (by Application), \$Million, 2022-2028
- Table 172: Rest-of-MEA Smart Spraying Market (by Application), \$Million, 2022-2028
- Table 173: Rest-of-MEA Smart Crop Scouting Market (by Equipment), Units, 2022-2028
- Table 174: Rest-of-MEA Smart Crop Scouting Market (by Equipment), \$Million, 2022-2028
- Table 175: Rest-of-MEA Smart Crop Scouting Market (by Software), \$Million, 2022-2028
- Table 176: Rest-of-MEA Smart Spraying Market (by Product), Units, 2022-2028
- Table 177: Rest-of-MEA Smart Spraying Market (by Product), \$Million, 2022-2028
- Table 178: China Smart Crop Scouting Market (by Application), \$Million, 2022-2028
- Table 179: China Smart Spraying Market (by Application), \$Million, 2022-2028
- Table 180: China Smart Crop Scouting Market (by Equipment), Units, 2022-2028
- Table 181: China Smart Crop Scouting Market (by Equipment), \$Million, 2022-2028
- Table 182: China Smart Crop Scouting Market (by Software), \$Million, 2022-2028
- Table 183: China Smart Spraying Market (by Product), Units, 2022-2028
- Table 184: China Smart Spraying Market (by Product), \$Million, 2022-2028
- Table 185: Asia-Pacific Smart Crop Scouting Market (by Application), \$Million, 2022-2028
- Table 186: Asia-Pacific Smart Spraying Market (by Application), \$Million, 2022-2028
- Table 187: Asia-Pacific Smart Crop Scouting Market (by Equipment), Units, 2022-2028
- Table 188: Asia-Pacific Smart Crop Scouting Market (by Equipment), \$Million, 2022-2028
- Table 189: Asia-Pacific Smart Crop Scouting Market (by Software), \$Million, 2022-2028
- Table 190: Asia-Pacific Smart Spraying Market (by Product), Units, 2022-2028
- Table 191: Asia-Pacific Smart Spraying Market (by Product), \$Million, 2022-2028
- Table 192: Japan Smart Crop Scouting Market (by Application), \$Million, 2022-2028
- Table 193: Japan Smart Spraying Market (by Application), \$Million, 2022-2028
- Table 194: Japan Smart Crop Scouting Market (by Equipment), Units, 2022-2028

Table 195: Japan Smart Crop Scouting Market (by Equipment), \$Million, 2022-2028

Table 196: Japan Smart Crop Scouting Market (by Software), \$Million, 2022-2028

Table 197: Japan Smart Spraying Market (by Product), Units, 2022-2028

Table 198: Japan Smart Spraying Market (by Product), \$Million, 2022-2028

Table 199: India Smart Crop Scouting Market (by Application), \$Million, 2022-2028

Table 200: India Smart Spraying Market (by Application), \$Million, 2022-2028

Table 201: India Smart Crop Scouting Market (by Equipment), Units, 2022-2028

Table 202: India Smart Crop Scouting Market (by Equipment), \$Million, 2022-2028

Table 203: India Smart Crop Scouting Market (by Software), \$Million, 2022-2028

Table 204: India Smart Spraying Market (by Product), Units, 2022-2028

Table 205: India Smart Spraying Market (by Product), \$Million, 2022-2028

Table 206: South Korea Smart Crop Scouting Market (by Application), \$Million, 2022-2028

Table 207: South Korea Smart Spraying Market (by Application), \$Million, 2022-2028

Table 208: South Korea Smart Crop Scouting Market (by Equipment), Units, 2022-2028

Table 209: South Korea Smart Crop Scouting Market (by Equipment), \$Million, 2022-2028

Table 210: South Korea Smart Crop Scouting Market (by Software), \$Million, 2022-2028

Table 211: South Korea Smart Spraying Market (by Product), \$Units, 2022-2028

Table 212: South Korea Smart Spraying Market (by Product), \$Million, 2022-2028

Table 213: Australia and New Zealand Smart Crop Scouting Market (by Application), \$Million, 2022-2028

Table 214: Australia and New Zealand Smart Spraying Market (by Application), \$Million, 2022-2028

Table 215: Australia and New Zealand Smart Crop Scouting Market (by Equipment), Units, 2022-2028

Table 216: Australia and New Zealand Smart Crop Scouting Market (by Equipment), \$Million, 2022-2028

Table 217: Australia and New Zealand Smart Crop Scouting Market (by Software), \$Million, 2022-2028

Table 218: Australia and New Zealand Smart Spraying Market (by Product), Units, 2022-2028

Table 219: Australia and New Zealand Smart Spraying Market (by Product), \$Million, 2022-2028

Table 220: Rest-of-APAC Smart Crop Scouting Market (by Application), \$Million, 2022-2028

Table 221: Rest-of-APAC Smart Spraying Market (by Application), \$Million, 2022-2028

Table 222: Rest-of-APAC Smart Crop Scouting Market (by Equipment), Units, 2022-2028

Table 223: Rest-of-APAC Smart Crop Scouting Market (by Equipment), \$Million, 2022-2028

Table 224: Rest-of-APAC Smart Crop Scouting Market (by Software), \$Million, 2022-2028

Table 225: Rest-of-APAC Smart Spraying Market (by Product), \$Units, 2022-2028

Table 226: Rest-of-APAC Smart Spraying Market (by Product), \$Million, 2022-2028

Table 227: Competitive Analysis of Major Agrochemical Companies

Table 228: Semios: Pricing and Product Portfolio

Table 229: Semios: Mergers and Acquisitions

Table 230: Bushel Inc: Pricing and Product Portfolio

Table 231: Bushel Inc: Product Developments

Table 232: Climate LLC: Pricing and Product Portfolio

Table 233: Climate LLC: Partnerships, Joint Ventures, Collaborations, and Alliances

Table 234: BASF SE (xarvio): Pricing and Product Portfolio

Table 235: BASF SE (xarvio): Product Developments

Table 236: BASF SE (xarvio): Partnerships, Joint Ventures, Collaborations, and Alliances

Table 237: Cropin Technology Solutions Private Limited: Pricing and Product Portfolio

Table 238: Cropin Technology Solutions Private Limited: Product Developments

Table 239: Partnerships, Joint Ventures, Collaborations, and Alliances

Table 240: Corteva: Pricing and Product Portfolio

Table 241: Syngenta: Pricing and Product Portfolio

Table 242: Syngenta: Market Developments

Table 243: Syngenta: Product Developments

Table 244: Telus Agriculture & Consumer Goods: Pricing and Product Portfolio

Table 245: Telus Agriculture & Consumer Goods: Mergers and Acquisitions

Table 246: Taranis: Pricing and Product Portfolio

Table 247: Taranis: Market Development

Table 248: Taranis: Partnerships, Joint Ventures, Collaborations, and Alliances

Table 249: AGCO Corporation: Product Portfolio

Table 250: AGCO Corporation: Market Developments

Table 251: AGCO Corporation: Partnerships, Joint Ventures, Collaborations, and Alliances

Table 252: Deere & Company: Pricing and Product Portfolio

Table 253: Deere & Company: Market Developments

Table 254: Deere & Company: Product Developments

Table 255: Deere & Company: Partnerships, Joint Ventures, Collaborations, and Alliances

Table 256: Deere & Company: Mergers and Acquisitions

- Table 257: WEED-IT: Pricing and Product Portfolio
- Table 258: WEED-IT: Product Developments
- Table 259: Precision AI Inc: Product Portfolio
- Table 260: Precision AI Inc: Partnerships, Joint Ventures, Collaborations, and Alliances
- Table 261: HARDI: Pricing and Product Portfolio
- Table 262: Partnerships, Joint Ventures, Collaborations, and Alliances
- Table 263: Agrifac Machinery B.V.: Pricing and Product Portfolio
- Table 264: Agrifac Machinery B.V.: Product Developments
- Table 265: Partnerships, Joint Ventures, Collaborations, and Alliances
- Table 266: Ecorobotix SA: Pricing and Product Portfolio
- Table 267: Ecorobotix SA: Product Developments
- Table 268: BA Pumps & Sprayers: Pricing and Product Portfolio
- Table 269: Trimble Inc: Pricing and Product Portfolio
- Table 270: Trimble Inc: Partnerships, Joint Ventures, Collaborations, and Alliances
- Table 271: Trimble Inc: Mergers and Acquisitions
- Table 272: Greeneye Technology: Pricing and Product Portfolio
- Table 273: Greeneye Technology: Product Developments
- Table 274: Partnerships, Joint Ventures, Collaborations, and Alliances
- Table 275: Agridrones Solutions: Pricing and Product Portfolio

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