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Smart Plantation Management Systems Market by Type (Irrigation Systems, Plant Growth Monitoring Systems, and Harvesting Systems), Crop (Coffee, Oilseeds, Sugarcane, and Cotton), Component (Hardware and Software), and Region - Global Forecast to 2025

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Abstracts

“Increase in adoption of plantation intelligence (PI) and data mining by farmers and reduction in the wastage of resources and manpower.”

The global smart plantation management systems market size is projected to grow from USD 1.1 billion in 2019 to USD 1.5 billion by 2025, recording a compound annual growth rate (CAGR) of 5.8% during the forecast period. The major factors driving the growth of the smart plantation management systems market include increasing adoption of plantation intelligence (PI) and data mining by farmers and reduction in the wastage of resources and manpower. However, high capital investment in the development of smart plantation management systems is expected to hinder the market growth.

“The irrigation systems segment dominates the smart plantation management systems throughout the forecasted period.”

Smart irrigation systems control and monitor the water scheduling for the plantation crops based on the data collected by the sensors. It reduces the amount of water needed for irrigation, resulting in the reduction of operation costs, specifically for large farmlands. According to the tests by the Irrigation Association (IA) and the International Center for Water Technology (California), smart irrigation systems save around 20% more water than traditional irrigation systems, which is one of the major factors driving

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its demand in the market.

“The software segment is projected to grow at a higher growth rate during the forecast period.”

The software used in smart plantation management systems helps the farmers and plant growers to manage and analyze the data collected from the fields via sensors. Various field operations, such as harvesting, fertigation, and irrigation, can be efficiently monitored and controlled with software, which saves time and increases crop yield. The software makes it possible for the farmers to control and manage their fields with the help of a smartphone, or a laptop, thereby eliminating the need to visit the fields frequently. These factors are expected to drive the growth of the software segment.

“The Asia Pacific accounted for the largest market share in 2018.”

The Asia Pacific region accounted for the largest market share in 2018. This dominance is due to the large cultivation of plantation crops, which include tea, sugarcane, and cotton. Furthermore, this region is characterized by government support to promote the Internet of Things (IoT) in farming, adverse climatic conditions, rise in concerns toward the environment, decrease in productivity, and reduction in the number of farmlands. China is estimated to account for the major market share due to the presence of large cultivation areas for plantation crops, specifically for tea, sugarcane, and fruits.

A wide presence of manufacturers in the region is also driving market growth. The main players operating in the region include Netafim (Israel), Deere & Company (US), Synelixis Solutions (Greece), and AgroWebLab Co., Ltd (China).

In-depth interviews were conducted with CXOs, managers, and key executives from various key organizations operating in the smart plantation management systems.

By Department: Sales/Marketing: 60%, CXOs: 30%, and production/procurement: 10%

By Designation: Managers: 65%, CXOs: 25%, and Executives: 10%

By Region/Country: The Middle East: 40%, Asia Pacific: 30%, South America: 20%, and US: 10%

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The smart plantation management systems comprise major players such as Robert Bosch (Germany), Deere & Company (US), Netafim (Israel), Synelixis Solutions (Greece), DTN (US), AgroWebLab Co., Ltd (AWL) (China), Tevatronics (Israel), SemiosBio Technologies (Canada), WaterBit (US), Phytech (Israel), Rivulis (Israel), Jain Irrigation Systems (India), Hidrosoph (Portugal), and AquaSpy (US). The study includes an in-depth competitive analysis of these players in the smart plantation management systems, with their company profiles, recent developments, and the key market strategies.

Research Coverage

The study covers the smart plantation management systems market across segments. It aims at estimating the market size and its growth potential across different segments such as type, crop, component, and region. The study also includes an in-depth competitive analysis of key players in the market, along with their company profiles, key observations related to product and business offerings, recent developments, and key market strategies.

Key Benefits of Buying the Report

The report will help market leaders/new entrants in this market with information on the closest approximations of the revenue numbers for the overall smart plantation management systems and subsegments. This report will help stakeholders understand the competitive landscape and gain more insights to position their businesses better and to plan suitable go-to-market strategies. The report will also help the stakeholders to understand the pulse of the market and will provide them with information on key market drivers, restraints, challenges, and opportunities.

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