

Analyzing the Share, Size, Segments, and Trends of the Smart Agriculture Market from 2021-2027

WILMINGTON, DE, UNITED STATES, February 25, 2025 /EINPresswire.com/ -- Allied Market Research recently released a detailed report on the smart agriculture industry, segmenting it by type and component. The study projects the market to grow to \$16,746.7 million in 2019, and is projected to generate a revenue of \$29,234.6 million by 2027, exhibiting a CAGR of 9.7% from 2021 to 2027. It further provides an in-depth analysis of competitive landscape, key players operating in the industry, and evolving market dynamics. In addition, the report includes global market size estimates, forecasts, and a regional analysis of each segment, offering valuable insights into market trends and opportunities.

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Key Determinants Shaping the Industry

The AMR study emphasizes the various factors that propel market expansion, analyzing how they influence the industry trends. According to the report, exponential population growth, which is estimated to reach 9 billion by 2050, is responsible for increasing food demand. This, in turn, boosts the need for smart agriculture technologies, as they enhance efficiency and yield, addressing this rising need. Moreover, alarming rise in environmental concerns and the necessity for resource conservation are prompting the adoption of smart farming methods. This is attributed to the fact that smart agriculture offers solutions like precision farming, which minimizes waste and reduces environmental impact.

Along with key driving forces, the report highlights the deterrent factors that limit the penetration of smart agriculture techniques. Lack of access to advanced technologies in developing countries due to high costs and inadequate infrastructure significantly hampers the market expansion. Conversely, implementation of supportive government policies to promote the adoption of advanced agricultural technologies is expected to open new avenues for the expansion of the industry during the forecast period.

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Assessing the Latest Trends Shaping the Future

The smart agriculture sector is rapidly evolving due to factors such as increase in adoption of autonomous machinery, claims AMR. Companies like SwarmFarm Robotics are developing modular farm robots capable of tasks such as fertilizing, herbicide spraying, and weed detection. These autonomous machines aim to enhance efficiency and reduce labor costs in agriculture. The report further emphasizes on the fact that use of robots in agriculture operations, including weed control, cloud seeding, planting, and environmental monitoring is expected to boost the growth trajectory of the industry. The key trend gaining high traction is the proliferation of gene editing tools in the agricultural sector. Nations like China are heavily investing in biotechnological advancements to develop new crop varieties with the help of gene-editing tools. This initiative aims to ensure food security by producing high-yield, disease-resistant crops. These advancements are expected to offer remunerative opportunities for the expansion of the global industry during the forecast period.

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Competitive Analysis

The report offers an in-depth evaluation of the top companies in the industry, assessing their market share, strategic positioning, and competitive advantages. Key industry participants featured in the study include:

Deere & Company, Delaval Inc.
Afimilk Ltd.
Lumigrow, Inc.
Raven Industries, Inc.
Agco Corporation
Ageagle Aerial Systems Inc.
Agjunction Inc.
Topcon Positioning Systems, Inc.
Trimble Inc.

In summary, the AMR report on the smart agriculture industry offers key insights into various market segments, enabling companies to make well-informed investment choices. Its latest analysis supports businesses in developing effective strategies for global growth.

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