IoT have the Potential to Transform the Agricultural Sector in Many Aspects – Explore

IOT in Agriculture Market by System, Application : Global Opportunity Analysis and Industry Forecast, 2018 - 2025.

PORTLAND, OR, UNITED STATES, March 7, 2022 /EINPresswire.com/ -- With the continuous advancements in technology, IoT is all set to push the [future of agriculture](#) to the next level. Smart farming based on IoT technologies is efficient than the conventional approach in more than one way. It helps farmers by offering precision agriculture through ensuring high yields, protecting the environment, reducing the operational costs, lessening waste, and enhancing profitability. IoT solutions enable efficient utilization of resources like water, electricity, fertilizers etc. It also monitors the crop field with the help of multiple sensors, sattelites, and automated irrigation system.

High Tech Farming:-
It includes sensors based farming and smart livestock management.

Sensors installed in the farming area help farmers to acquire detailed maps of topography and to capture relevant data of resources in the field.
It allows farmers to detect temperature and acidity level of the soil.
Farmers can also forecast the weather patterns by accessing climate predictions for the coming days and weeks, thereby, helps in enhancing strategies to effectively manage the farm.
High tech farming allows farmers to remotely monitor and run statistical predictions for their crops, equipment, and others in the field by using their smartphones.
Smart wearables and other sensor enabled techniques for the animals help farmers to keep a real time check on their nutritional health and daily activities. By monitoring the location of their cattle and by identifying the sick animals, IoT applications help in preventing any disease to spread in the farm, thus lowers labor costs.

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Farming Drones and Crop Monitoring:-
Ground based and aerial based drones have become an extremely important tool for farmers to survey their large lands and to enhance several agricultural practices.
Across the United States, drones are widely being used for monitoring the crops as a means to combat harmful environmental factors.

Some specialized drones that can produce 3D imaging are used to predict soil quality and to plan seed planting patterns accordingly.

Not only these but also, drones are used to spray pesticides and other chemicals on crops while being careful for not penetrating groundwater.

Drone are estimated to increase the speed of spraying by almost five times than other types of machinery.

Smart Greenhouses and Farm Management:-

Standard means of producing greenhouses consists of manual control of environmental parameters that usually led to huge production losses, energy losses and higher costs.

Smart greenhouses, on the other hand, are made up of IoT technologies with automated features and sensor enables capabilities that can observe each & every details of crop production and climate changes.

This technology can create a self-regulating microclimate for crop production which can reduce the weather struggles and predators while providing real time insights to farmers and growers.

The sensors used in smart greenhouses can capture data remotely and can process through a cloud platform.

IoT solutions offer livestock tracking, warehouse monitoring, weather analysis and others in order to provide end to end service to the farm authorities.

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Current market scenario of IoT in agricultural sector:-

According to a report published by Allied Market Research, the global IoT in agriculture market size is registered to reach $48,714 million with a considerable CAGR from 2018 to 2025. Currently, Asia-Pacific is having the largest market share. Certain factors such as rise in global population and increase in demand for food across the world have boosted the adoption of high tech farming techniques and farming drone technologies by growers, which in turn, is contributing to the growth of IoT in agriculture market across all regions.

It is understandable that farmers are increasingly turning to smart agricultural techniques because of the potential benefits of IoT applications in agriculture. Moreover, 70% of the total fresh water supply that is significantly used by the agricultural industry is also managed by IoT technology. This way, by proving adequate usage of water in the farms, IoT technologies are helping in water conservation to a great extent.

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Furthermore, climate changing factors like flood, draught etc. can drastically affect the agricultural productivity, which sequentially is increasing the demand for IoT technologies in agriculture market. With this drift on board, the global IoT in agriculture market in anticipated to gather huge prospects and exponential growth in near future.

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