



Augmented Reality: New Horizon in Agricultural Machinery

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Agriculture is the most ancient activity of mankind which is a very important economic activity even in today's ultra-modern age as well as providing the food and fuel needed to sustain our existence. The estimated global population is expected to reach 5 billion by 2030. So agricultural production needs to be doubled to meet the growing demand for food and bioenergy. In today's modern age there is a need for efficiently high yielding farming. With a growing population and a regular increase in food demand, the agricultural industry is well aware of the importance of meeting this demand quickly. In order to meet these demands in the agricultural industry, it is very important to use advance technology for various tasks. In addition to other technologies like AI, big data, and IoT, farmers can use **Augmented Reality (AR)** to manage growing food demand. AR in agriculture can help farmers to decrease crop wastage, increase production, and train other farmers.

Benefits of AR Technology in Precision Farming

We see that farming is one of the most laborious work compared to other work. Both crop farming and cattle farming are very time consuming and resource intensive, need superior abilities, and require physical labor. In this regard, AR can do a lot to assist farmers in reorganization their tasks. Here are the key points to become agriculture optimization through augmented reality.

Simplifying Decision Making

AR plays an important role in precision farming in agriculture. Augmented Reality provide a prompt access for valuable data to farmers, also its help to them in making precise and appropriate decisions. Gathering and evaluating this data will demand using AR technology in parallel with AI analytics and the IoT.

Advancement in Training

Now a days farmers have many advance things to learn if they want to stay updated on the latest trends in the industry. Augmented reality reduce training time and allows farm staffs to learn on the go by delivering micro-learning content in real-time.

Reducing Staffing Costs

Coupled with monitoring technology and AI for precision farming, AR can reduce the need to hire farm workers to regularly check on the state of the crops or livestock. On top of that, farmers can now hire employees with only basic skills and information and train them using real-time AR training.

Avoiding Disturbances and Interruption

AR can simplify the protective maintenance of farm equipment. AR content provide timely and informative updates, farmers can detect the breakdown, defects or faults, and schedule timely repairs.

It's a very truthfully that AR technology is quite new to the agriculture field and has not yet been applied to the best of its abilities. However it has got immense possibilities to be applied in the said field in more varied and purposeful ways. And the days are not too far away, when AR will play a powerful role to manage the whole agriculture system and solve a number of issues related to this field. Like this way, in a very short time it will doing drastic change in the procedure and method of agriculture.