APEX BUSINESS INTELLIGENCE(ABI)

◆ <u>**Agriculture and Technology**</u>

- **Industries**

- **Farms**

- **Enterprise Farms**

- **Cooperatives**

- **Banks**

- **Food & Beverages**

- **Input Manufactures**

- **Agriculture Technology**

Industries: Leading farm management software for agrifood value chain stakeholders. Find out how we can together solve real-life challenges in the food production processes.

FARMS

Professional crop farmers with small-to-mid-sized production (fruit, vegetable, grain).

Enterprise Farms: Enterprise farming holdings and agribusiness companies with

large and complex operations.

Cooperatives: Professional farmer associations focused on input supply, agronomic advisory and crop marketing.

Banks: Agribusiness banks focused on providing financing to farmers.

Food and Beverages: Food and beverage companies with sustainable supply chain Strategies and direct farmer contracting.

Input Manufacturers: Manufacturers of seeds crop protection products, Fertilizers and Machinery.

Agronomic Advisory: Private and public agronomic advisory companies

Diary Products:

dairy product, milk and any of the foods made from milk, including butter, cheese, ice cream, yogurt, and condensed and dried milk

Agriculture Technology :

Today's agriculture routinely uses sophisticated technologies such as robots, temperature and moisture sensors, aerial images, and GPS technology. These advanced devices and precision agriculture and robotic systems allow businesses to be more profitable, efficient, safer, and more environmentally friendly

Here are five technological advancements that are making a big impact in agriculture:

- **Precision Agriculture.**

- **Industrial Automation.**

- **Automated Irrigation Systems.**

- **Remote Monitoring of Crops Using Sensors.**

- **Genetically Modified Crops.**

- **Merging Datasets.**

- **The Impact of Technology on Agriculture.**

Technology in agriculture affects many areas of agriculture, such as fertilizers, pesticides, seed technology, etc. Biotechnology and genetic engineering have resulted in pest resistance and increased crop yields. Mechanization has led to efficient tilling, harvesting, and a reduction in manual labor

Some major technologies that are most commonly being utilized by farms include: harvest automation, autonomous tractors, seeding and weeding, and drones. Farm automation technology addresses major issues like a rising global population, farm labor shortages, and changing consumer preferences

Future agriculture will use sophisticated technologies such as robots, temperature and moisture sensors, aerial images, and GPS technology. These advanced devices and precision agriculture and robotic systems will allow farms to be more profitable, efficient, safe, and environmentally friendly.

Block chain in farming or agriculture is utilized as a system that helps to increase the volume of reliable information available with regard to inventories, contracts in agriculture, and the general state of the farms

There will be less food waste and better use of waste materials in agriculture. The number of warehouses in the private sector will increase and the links between public and private warehouses will increase. This will help balance supply with demand and stabilize the prices of agricultural produce in the market.

Higher crop productivity. Decreased use of water, fertilizer, and pesticides, which in turn keeps better food price. Reduced impact on natural ecosystems. Less runoff of chemicals into rivers and groundwater.

Cassava, maize, plantains, potatoes, rice, sorghum, soybeans, sweet potatoes, wheat, and yams are some of the leading food crops around the world..

Indian agriculture is suffering from inadequate use of inputs like fertilizers and HYV seeds. Indian farmers are not applying sufficient quantity of fertilizers on their lands and even the application of farm yard dung manure is also inadequate. Indian farmers are still applying seeds of indifferent quality.

Artificial Intelligence in Agriculture:

AI systems are helping to improve the overall harvest quality and accuracy – known as precision agriculture. AI technology helps in detecting disease in plants, pests and poor nutrition of farms. AI sensors can detect and target weeds and then decide which herbicide to apply within the region.