

## How Technology is Changing Farming

**B. Namitha**

Agriculture college -palem509215

Nagarkurnool district pjtau

e-mail id: [bolbandanamitha@gmail.com](mailto:bolbandanamitha@gmail.com)

[doi.org/10.5281/ScienceWorld.19684690](https://doi.org/10.5281/ScienceWorld.19684690)

Agriculture has been the backbone of human life for centuries. In the past, farming depended mostly on manual labor and traditional methods. But today, technology is transforming agriculture in many ways, making farming easier, faster, and more efficient.

One of the biggest changes is the use of modern machinery. Tractors, harvesters, and seed drill machines help farmers complete their work quickly and reduce physical effort. This saves time and increases productivity. One of the biggest changes is the use of modern machinery. Tractors, harvesters, and seed drill machines help farmers complete their work quickly and reduce physical effort. This saves time and increases productivity.

Technology has also introduced mobile apps and weather forecasting tools. Farmers can now check weather updates, market

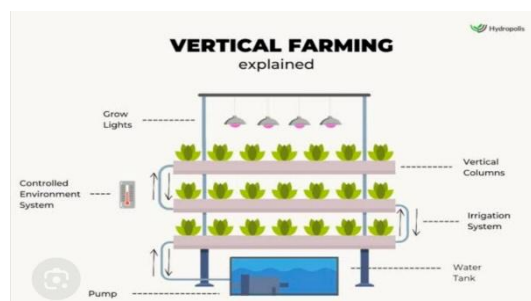
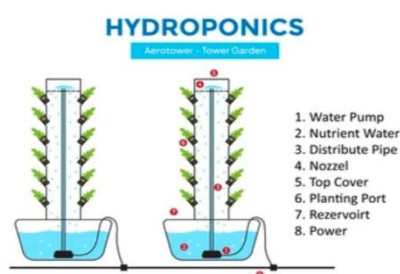


prices, and farming tips directly on their phones. This helps them plan better and avoid losses due to

Another important advancement is smart irrigation systems like drip and sprinkler irrigation. These systems help in saving water and ensure that crops get the right amount of moisture. This is especially useful in areas facing water shortages.

Drones and sensors are also becoming popular in farming. Drones can monitor crop health, spray pesticides, and take aerial images of fields. Sensors help in checking soil moisture, temperature, and nutrient levels, giving accurate data to farmers.

Another modern method is hydroponics and vertical farming, where crops are grown without soil using nutrient-rich water. These methods are useful in urban areas and help produce fresh food with less space.



Technology is also helping in better storage and transportation. Cold storage facilities and improved logistics reduce post-harvest losses and help farmers get better prices for their produce.

## Conclusion

Technology is changing farming in a positive way. It is helping farmers save time, reduce costs, and increase production. By adopting modern techniques, farmers can improve their income and build a better future for agriculture.



## References

<https://www.nature.com/articles/s43016-020-00143-7>

<https://www.sciencedirect.com/science/article/pii/S0168169921002654>

<https://www.worldbank.org/en/topic/agriculture/brief/climate-smart-agriculture>

