

Drones / Unmanned Aerial Vehicles

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Received: August 01, 2022; **Published:** August 02, 2022

Unmanned aerial vehicles (UAVs), sometimes known as drones, have the highest potential for usage in a variety of applications in the near future. As drone technology advances, these devices will also get more affordable, sophisticated, and useful. An aircraft without a human pilot, flight crew, or passengers is called an Unmanned Aerial Vehicle (UAV), also referred to as a drone. UAVs were initially created in the 20th century for use in military operations. As control technologies became more affordable and effective, their employment in several non-military applications increased. Devices like transmitters, receivers, and sensors make it possible to control things. It is capable of carrying a lot of weight and flying at vast altitudes. A drone can be used for a variety of tasks, including aerial photography, surveillance, spraying water and pesticides on crops, inspecting fields for water connection leaks, and more.

India's economy is mostly based on agriculture. A significant amount of India's exports are agricultural products, which are another important component of its economy. Due to its diversity and status as the technology of the future for the agricultural community, drones have received the majority of industry attention. UAVs fill in the gaps left by traditional farming techniques' human inaccuracy and inefficiency. Drone technology is being used to eliminate all ambiguity and guesswork and instead concentrate on precise and trustworthy information. In farming, external variables like the weather, the state of the soil, and the temperature are crucial. The farmer can better adapt to certain circumstances and make thoughtful decisions as a result thanks to agriculture drones. The information obtained is used to control irrigation, crop health, soil quality, crop treatment, crop scouting, and crop damage assessments. Drone surveys increase crop yields while cutting down on time and costs.

Volume 3 Issue 2 August 2022

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