

Drones have the potential to be technology led transformation of Indian Agriculture.  
Critically Analyse (200m)

With the growth of technology its modern applications in agriculture can lead the development. In this context drones are highly capable to lead the change.

### Drones In Agriculture

\* The Budget of financial year 2022-23 centered on the usage of drones in the agriculture domain of India.

\* The usage of Kisan drones, had already been spearheaded due to its varied utilities in Indian Agriculture.

### How Drones helps in Agri?

⇒ In the spraying of insecticides, fertilizers pesticides and other likely inputs at an optimal level of cost.

⇒ Drones also ensure the mapping of the agriscape, thus aiding in collecting data about the features of the concerned agriscape.

⇒ Usage of drones leads a path to smart-agricultural practices that enhances the yield of land.

⇒ Drone-technology, also helps in constant monitoring of the farm lands, thus aiding to mitigate any losses caused by any factors.

### Pitfalls in Usage :-

⇒ high operational costs tends to be a major hindrance in adoption of drones in agriculture.

⇒ Lack of adequate skill-set, tech-driven awareness among the agri-community is an obstacle.

⇒ Lack of potential domestic market to produce more drones to be met with demand is a concern.

⇒ Lack of input materials such as chips, semi-conductors and other alternatives in a decentralized manner is another impediment.

Hence, these pitfalls have to be checked to lead a technology driven agriculture in India.