

Q Drones have the potential to be the technology-led transformation of Indian Agriculture. (critically Analyse. (200 words))

↳ Indian Agriculture.

It is responsible for one fifth of the country's GDP. In India \$ 600 bn Agriculture sector, they are currently Pesticide & Nutrient application.

↳ PM Kisan Samman Sammelan

↳ At the conference PM highlighted initiatives like Kisan Rail, DBT transfers, soil health cards etc. have adopted integrated and scaleup technology in agriculture.

↳ WEF -

↳ world Economic Forum (wef)'s latest report stated that drones have the potential to be the technology-led transformation of Indian agriculture.

As per WEF, drone usage reduce cost of application by 20% and mitigate health hazards of manual work.

↳ Drones - technology led transformation.

↳ Drone data integrated with GIS and Google Earth satellites images will streamline

schemes like PMFBY by aiding crop cutting experiments.

↳ with Drones Agri Research will become highly customised and localised.

↳ Agri-Exports will also increase with Technology supporting compliance with global standards.

↳ AI-enabled drones are used for mapping plots, assessing crop damage,

↳ Concerns

↳ 85% of Indian farmers are small and marginal landholders, drone cost between ₹1 lakh - 10 ₹ lakh.

↳ weather dependency, internet connectivity

↳ way forward

↳ A dedicated research fund and a sandbox or green microcosm should be provided to private players

↳ FPOs and custom hiring centres should be encouraged to buy and loan them to the farmers for a nominal fee.

↳ should consider unskilled user and internet connectivity should be addressed.