2. Drones have the potential to be the technology led intervention of Indian agriculture critically analyse.

World Economic forum - Drones will act as a harbinger for 'technology led growth/transformation' in Indian agriculture.

'Drone's usage & potential areas

Cearently Drones are used in areas for mapping water areas, pesticide application and nutrition

Potential Areas

1. World Economic forum says drones will reduce cost of application by 20%. Drone data can be used for effective planning - Sowing, harvesting precision agriculture can be achieved due to reduced man power. eg: per crop More crop + drones - will reduce ~~water~~ water use in efficiency

2. Combining Drones with GIS and Google Earth satellite images will help schemes like pm Fasal bima yojana [Crop insurance scheme] - for Cropcutting experiment and crop loss mapping.

3. Agri-Research will be eased - and can be localised based on the drone mapped data

4. Forward & backward linkage can be achieved. eg: Drone data on crop quality can be used by Food processing industries for procurement, fostering value addition & exports

Efforts needed

1. Expert advice - eg: Israel - Artificial Intelligence drones for mapping & other purpose.

2. 'Sand box' for testing for private players.

3. cost of production with drones will increase by 45%. Here FPO's can procure drones and offer at some amount to farmers since 85% are small & marginal farmers in India

4. Cross Industry application of drones - Civil & military

Way forward

Still ICAR - shows challenges like weather forecast, potential misuse and Internet connectivity as issues. Government schemes like Bharat net can be linked, addressing it in holistic perspective to realise full potential of drone.