



Farming Drones for Rice Crop Monitoring and Seed Production

National Centre of Agricultural Research and Development



cnrada.org

Precision Agriculture

A Brief Introduction

- Precision agriculture, also known as **precision farming**, is a modern farming approach that leverages technology to optimize crop production and resource management.
- By using tools such as GPS, remote sensing, drones, and data analytics, precision agriculture enables farmers to apply inputs like water, fertilizers, and pesticides more efficiently, based on the specific needs of each part of the field.
- This method enhances productivity, reduces waste, and minimizes environmental impact, contributing to sustainable farming practices.
- It is particularly valuable in addressing challenges such as climate change, resource scarcity, and the need for higher food production to support a growing global population.

Precision Agriculture

Key goals

Key goals include:

1. **Maximizing Yield:** Enhancing crop growth and yield by addressing the specific needs of different field zones.
2. **Resource Efficiency:** Reducing input costs by minimizing overuse or underuse of resources like water and nutrients.
3. **Environmental Sustainability:** Decreasing the environmental footprint of farming by reducing chemical runoff, soil degradation, and water waste.
4. **Improving Decision-Making:** Using real-time data and analytics to guide farming decisions for better outcomes.
5. **Enhancing Profitability:** Increasing economic returns by balancing input costs with improved yields and product quality.

Rice Crop Monitoring and Seed Production

Key goals

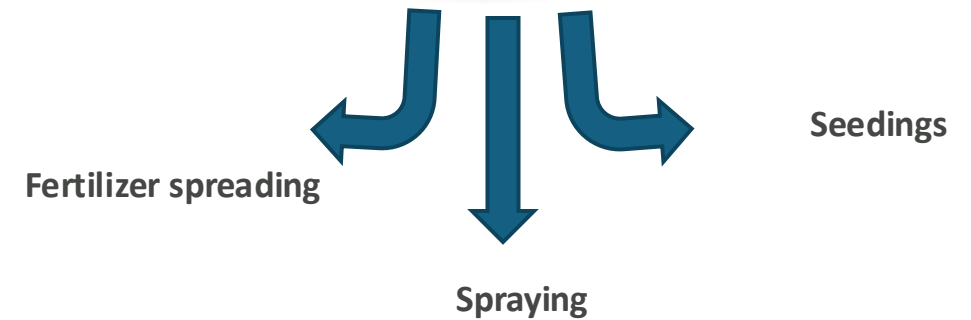
- The National Center of Agricultural Research and Development (CNRADA) has embraced innovative technology by utilizing agricultural drones to enhance rice seed production.
- These drones are used to precisely spread fertilizers, seeds, and apply herbicides, ensuring efficiency, reducing waste, and promoting sustainable farming practices.
- This modern approach supports the production of high-quality rice seeds while showcasing CNRADA's commitment to advancing agricultural development.



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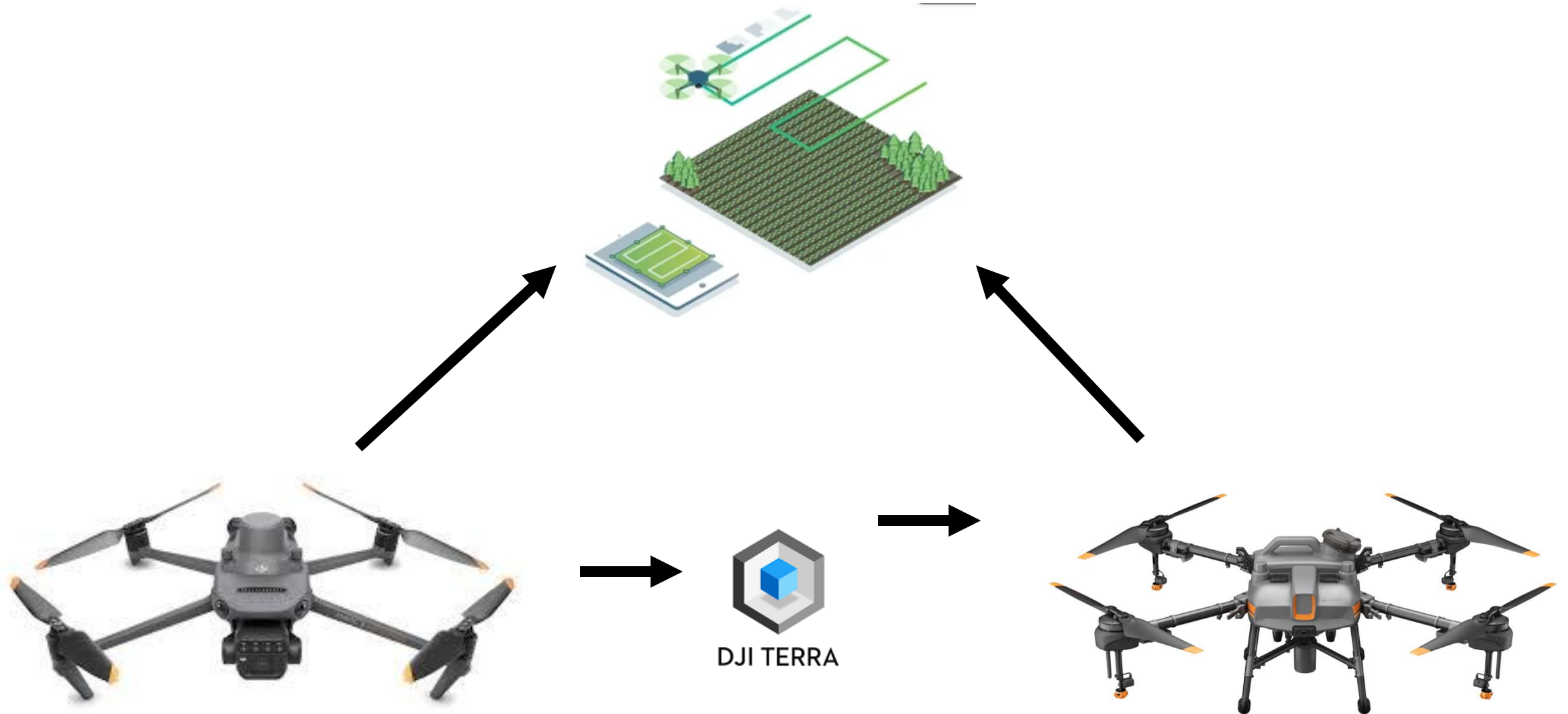
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Thank You for Your Attention

