Agritech Summer School

USING DRONES FOR CROP MONITORING

"Enhancing Agricultural production through technology"

Registration deadline: 31st December, 2019

Agritech Summer School	**Venue: LT4, ELGON Institute, Kenya**	**Dates: 6 – 10 April 2020**

TARGET GROUP

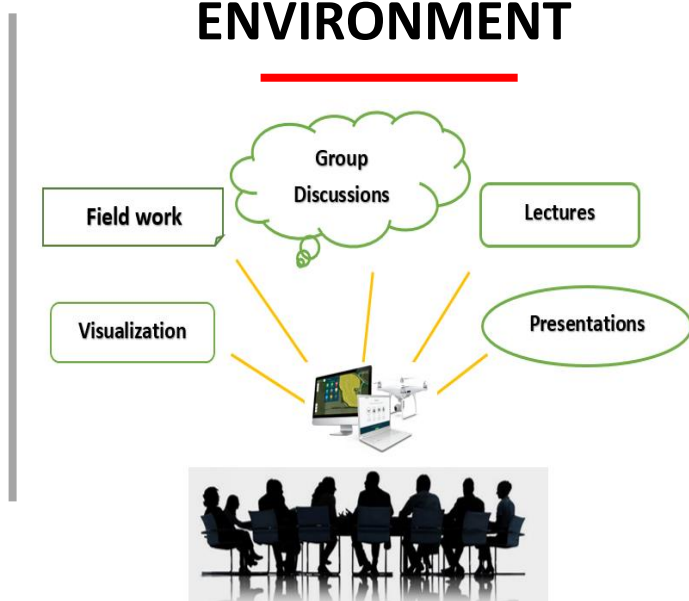Agricultural researchers, Extension Officers and Commercial farmers

DEFINITION OF THE PROBLEM

The global increase in population and climate change poses a challenge in food security which calls for increased sustainable production (UN, 2017). Drone technology has been proven to be one of the solutions to precision farming (Puri *et al.*, 2017). However, its use is limited due to lack of awareness and appreciation among major agricultural stakeholders
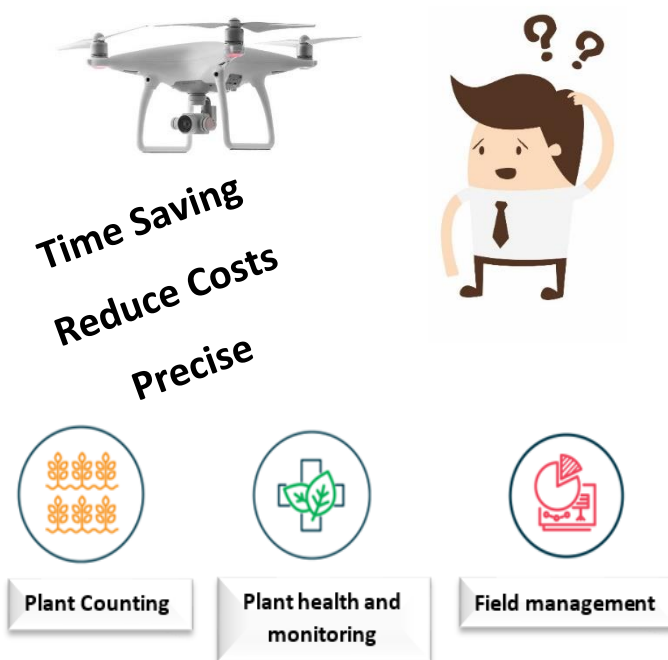
LEARNING OUTCOMES

- ✓ Application of drone technology in crop monitoring.
- ✓ Familiarize with the components, calibrate and operate drones.
- ✓ Visualize, manage and analyze drone data.

LEARNING ENVIRONMENT

Group Discussions
Field work
Lectures
Visualization
Presentations

WHY DRONES?

Time Saving
Reduce Costs
Precise

Plant Counting
Plant health and monitoring
Field management

COURSE CONTENT

- Calibration and field data collection
- Analysis of drone images
- Generation of maps
- Interpretation of results and field management

ORGANIZING TEAM

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Ethelyn Forchibe   Chepkemoi Junitor,

Juliet Inyele

References

1. United Nations, (2017). World population projected to reach 9.8 billion in 2050, and 11.2 billion in 2100. Online, retrieved 24 September 2019, from https://www.un.org/development/desa/en/news/population/world-population-prospects-2017.html
2. Vikram Puri, Anand Nayyar & Linesh Raja (2017) Agriculture drones: A modern breakthrough in precision agriculture, Journal of Statistics and Management Systems, 20: 4, 507-518.
3. www.agremo.com

Only 25 slots available

Acknowledgement

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DAAD Deutscher Akademischer Austausch Dienst

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