

Smart Fertiliser Recommendation System

Timeline: 05/21 - 04/22
Budget: €33,7k

Startup



- Name: Cropt
- Founded: 2019
- Tagline: Remote sensing, yield prediction, and optimized sowing
- Location: Novi Sad, Serbia

Industry partner



- Name: K+S AG
- Founded: 10/1889
- Tagline: Salt, potash & magnesium producer
- Headquarter: Kassel, Germany

The problem

There is a lack of detailed market analysis and farmers' feedback within K+S on international markets, such as Uganda. Cropt's decision-support system lacks fertiliser recommendation, which hinders the applicability.

The solution

This project brings together Cropt and K+S to develop a fertiliser recommendation system in Uganda based on the predicted yield, fertiliser response models and local agronomic knowledge. Through the cooperation with a third party, EzyAgric, based in Uganda, coffee and maize fields are being identified to collect the system data, develop the model, and generate fertilizers recommendations.

Project deliverables

- Development of a system for the identification of coffee and maize fields in Uganda, in collaboration with EzyAgric (K+S Company)
- Achieve more than 80% accuracy in identification and prediction of yield and harvesting date
- Develop a fertiliser recommendation system based on the predicted yield, fertiliser response models and local agronomic knowledge
- Deliver a user-friendly platform for showcasing the technology



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