



Long-term EU-AU Research and Innovation Partnership for Food and Nutrition Security and Sustainable Agriculture

Dialogue for Action and Brokerage in West Africa: Fostering Knowledge, Communication & Innovation Hubs

Virtual Workshop | 28 - 29 October 2020



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ORGANIZATION AND TEAM



❑ **Stephanie Quartey-Papafio, MBA, CA**
Chief Finance Officer
❖ Chartered Accountant, Ghana Revenue Authority (GRA), Accra.



❑ **Michael Augustus Moore, B. Eng.**
Chief Operating Officer
❖ Clinical Engineer, Korle-Bu Hospital, Accra.



❑ **Cynthia Omane-Kodie , MSc.**
Business Development Officer
❖ Well Engineer, Ghana National Petroleum Corporation (GNPC), Accra.





1-TOPIC : WHICH OF THESE TOPICS IS ADDRESSED THROUGH THE BUSINESS / INITIATIVE

Panel 2: **Innovation and digitalization in agriculture: Paving the way for entrepreneurs, AgriTech and FoodTech start-ups**

Panel 3: Short value chains: Innovative ideas for mitigating socio-economic pandemic impacts in agriculture and food sector

Panel 4: Agroecological transitions of food systems: new ideas to link together the health of agroecosystems, animals and humans

- ✓ We seek to combine **drone technology** and **Artificial Intelligence** to grow the farm and increase the yield.
- ✓ Using drones and artificial intelligence, we will study the growth of the crops via imaging and to predict possible disease outbreaks. Specifically, we will rely on Natural Language Processing (NLP) to predict possible drought or epidemics on the farm.
- ✓ We will provide education and services to farmers in the Mfantseman Municipality with appropriate methodologies.





2 - CRITICAL FACTORS FOR DEVELOPMENT SUCCESS / LIMITING FACTORS.

- ✓ **Mechanization** Currently, all our farm activities are manual. We hope to mechanize several aspects of the farms including tractors for weeding and harvesting to enable for efficient and quality management of the farm.
- ✓ **Labour Quality** All the farmers in the municipality still rely on very old farming practices. We plan to use the methodologies developed on our farm to serve as a guide and provide advisory services to the farmers.
- ✓ **Storage facility** Building storage facilities will be critical in development of the farm. e.g. currently we have 3000Kg of cultivated maize in storage.





3 - MOST PRESSING THEMATIC PRIORITY CONCERNING THIS TOPIC.

- ✓ **Flexible Financing** – Opportunity to obtain financing with shared interest in the profitability.
- ✓ **Training** – We started the farm purely with knowledge from research and experimental practices we read.
- ✓ **Cost of Machinery** – Aquisition of instruments is not readily available and costly to import.
- ✓ **Farmers Association** - Meeting others in the area with similar farming needs.





4 - KEY ACTORS, IMPORTANT PLAYERS

- ✓ Farmers' Association
- ✓ Ministry of Food and Agriculture (**MOFA**), Ghana.
- ✓ West Africa Center for Crop Improvement (**WACCI**), Ghana.
- ✓ West Africa Science Service Center on Climate Change and Adopted Land Use (**WASCAL**), Ghana.
- ✓ University of Cape Coast (**UCC**), Ghana.
- ✓ Africa Union (**AU**)
- ✓ European Union (**EU**)





5 - CONDITIONS FOR ENHANCING ACTORS' COOPERATION (CRITICAL FACTORS, ENABLING ENVIRONMENT AND INTERFACES TO ENSURE COLLABORATION)

- ✓ **Business to Business transactions** Connecting farmers to buyers.
- ✓ **Research to Business** - Training opportunities to learn new seeds, etc.
- ✓ **Database of farmers** – Creating database of farmers and their products.
- ✓ **Machinery** – MOFA advisory services; e.g. Importations, taxations, etc.





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THANK YOU

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