

°AHoRa: Application to improve the management and yield of Musaceae plantations in family farming

The project seeks to improve the planning and decision-making of agronomic practices in Musaceae (plantain and banana) plantations in the face of climate variability focused on family farming in Colombia, Peru, and the Dominican Republic.

Colombia /Peru/ Dominican Republic
/Perú /República Dominicana

- 

10745
Trained persons
- 

30
Researchers
- 

1189
Trained persons
- 

1429
Survey
- 

5254
video views
- 

3
Researchers
- 

17
Documents submitted
- 

15
Tutorial videos



Mobile application for banana and plantain farmers to improve planning and yield based on weather data

Initiative

This consultancy was financed by FONTAGRO and executed by AGROSAVIA (Colombia), IDIAF (Dominican Republic), the University of PIURA and INIA (Peru). The objective is to generate a web-mobile application to improve planning and decision-making of agronomic

practices in Musaceae (banana and plantain) plantations in the face of climate variability, with special reference to family farming by producers in Colombia, Peru and the Dominican Republic. The application is called °AHoRa and is freely available.

Agtech °AHoRa, decision support tool for Musaceae crop management

Tech solution

°AHoRa, a web-mobile application based on a calculation platform that takes data (temperature, solar radiation, precipitation and evapotranspiration) from nearby weather stations and converts them into indicators of the productive potential of the Musaceae crop (leaf emission rate, flowering to harvest period, potential bunch weight, nutrient demand, and water requirements). °AHoRa is a tool for

climate change adaptation and mitigation, with special emphasis on family farming production systems in Colombia, Peru and the Dominican Republic, to improve planning, inform decision-making, and ensure timely agronomic practices, higher yields, crop quality and profitability. A business plan for sustainability and the App's operational manuals are included.



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Impacts and Results

The °AHoRa project delivers: webinars with national and international specialists to formulate the platform and launch the project. Equations (5) that integrate agroclimatic and ecophysiological information of the crop to estimate leaf emission rate, flowering time to harvest, potential bunch weight, nutrients to be restored to the soil according to the extraction by harvest and crop water needs. Diagnosis of production and crop behavior in the three countries.

Study of the use of similar applications in the market. Demo and Pro versions of the App. Farm-to-farm workshops and training on the use of the App in the test areas (Colombia, Peru and Dominican Republic). Initial and updated business plan. Demo and Pro App operating manuals. Validation and launch of the Pro App with family farmers and researchers in the field. User experience analysis of Demo vs. Pro version. Results that impact+ in LAC.

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