Smartagro
Digital farming service to reduce chemical load in banana plantations

The agriculture of the future is present
Bayer Crop Science Ecuador presented by Rolf C. Becker

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Agenda

// Smartagro service
// Delivered information
// Benefits
Bayer is offering an innovative service to help manage the productivity of banana farms in Ecuador.

Bayer provides a **timely and accurate diagnosis** of plant health levels of banana farms, through **NDVI indicators (Normalized Differential Vegetation Index)** which are obtained through the use of precision technology (drone flight).

The resulting analysis is based on Bayer's experience and on a very solid database. Bayer has accompanied the banana farming in Ecuador for 50 years and for 150 years worldwide in countries which are highly productive.

Project is in pilot stage: collection of knowledge and learning.
Smartagro Information
Delivered information to our banana clients

// Initial diagnosis of the plant health state of your farm
  // Black Sigatoka management status
  // Nematode hot spots
// Overturning´s levels
  // how many plants are missing / ha?
// Overuse of resources due to missing plants (e.g. fertilizer)
// Economic impact of underutilized spaces – productivity of farm
Smartagro Benefits

Benefits of the service

// Plant Health status diagnosis of banana cultivation, with a personalized analysis of captured images vs. NDVI parameters.

// Analysis of each lot of the farm for an effective control and on time of diseases, weeds and overturning.

// Helps to manage the overall productivity of the farm, and therefore the return of investment – on average 14% income improvement.

// Facilitates decision making. The diagnosis of black Sigatoka requires technological assistance to support phytosanitary technicians to make adapted decisions in real time.

// Effective resource allocation of the farm (identifying those areas that require most attention).
Thank You!

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