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Brief

We bring the essential tools of the laboratory to the production field.

Problem

Since 2013 coffee season Latin-American coffee farmers have suffered one of the biggest crisis in the coffee production sector caused by the Coffee Leaf Rust, precisely because of the favorable weather conditions due the higher temperatures, global warming and producers bad preparation with not enough finance resources and non-technical knowledge

Only in Mexico more than half a million coffee growers rely on authorized laboratories to perform common crop leaf analyses to prevent chances of infection, however these tests are quite expensive and the testing results take a significant amount of time to be delivered, up to 10 to 15 days.

This expectancy time leads to high probabilities of getting a crop disease with not enough time to act, resulting in 30% losses of production yield every year, equivalent to \$1,200 USD per hectare.

Solution

Cafeprot is a portable device that enables coffee farmers to perform plant analyses on-site and prevent chances of crop diseases by measuring different variables in real time through our portable sensors.

We are offering a low-cost alternative to receive a nutritional data report for tracking production with an easy to use device designed for farmer's needs.

Our device is considered to be an environmentanlly friendly alternative because of it's ability to predict in real time crop diseases, making easier the choice of buying prevention fertilizers instead of stronger correction agrochemicals.

Traction

From the very outset of the project, we have involved potential costumers in the development of our product, from concept to prototype based on their needs.

Cafeprot is able to track production conditions, allowing farmers to read their nutritional data and anticipate any risk of diseases from happening in different hectares of their farm.

The involvement has led us up to the point that we have 5 intention letters of farmers who promised to buy the device once the pilot testing is completed.

