QUINOA IN BOLIVIA

Coordinated Efforts for Long-Term, Sustainable Solutions

The Key Players

- Dimitra
- Government of the State of Oruro
- SwissContact Bolivia
- Proinpa Foundation
- Plagbol Foundation

ERASING UNCERTAINTY AND BUILDING SUSTAINABLE PRACTICES

QUINOA IN BOLIVIA

A transformation is occurring among farmers in Bolivia, for quinoa and other high-value crops...

Most farmers in the region still engage in low-tech processes.

Pest attacks and soil degradation are jeopardizing profits from the high export value of quinoa.

In 2021, the United States spent nearly $25 million on Bolivian quinoa; countries throughout Europe, North America, China, and other regions spent an additional $55 million + on Bolivian quinoa.

Lack of widespread knowledge on scientific methods of cultivation and actionable solutions to disruption undermine Bolivian farmers' ability to reliably profit from quinoa.

DIMITRA

"Working with the Department of Oruro allows us to help thousands of small farmers, bringing access to Dimitra's technology through cooperation with the Government of Oruro."

Diego Costa, Dimitra's Latam Director

BOLIVIA'S FARMERS NEED EDUCATION AND EMPOWERMENT

Dimitra, the Government of the State of Oruro, SwissContact Bolivia, the Proinpa Foundation, and the Plagbol Foundation are all contributing to a new mission to help farmers in Bolivia. All five parties are providing resources and leadership to improve agriculture in the whole region, a significant task that will require ongoing education and training, tech-based tools, implementation strategies, and results measurement.

Our demonstrated practices can increase productivity > 3 folds against the average Bolivian farmer yield (0.6 t/ha).

The Master Plan Includes

- Knowledge dissemination
- Digital pest control
- Sustainable production
- Crop performance prediction

Knowledge Dissemination

THE PROBLEM

Low productivity due to a lack of widespread knowledge on scientific methods of cultivation.

DIMITRA & PARTNERS SOLUTION:

Dimitra offers scientific approach practices aimed at improved productivity and profitability with optimum inputs and reduced cultivation cost.

Digital Pest Control

THE PROBLEM

Pest attacks are a primary cause of low productivity of quinoa.

DIMITRA & PARTNERS SOLUTION:

Sensors and AI tools can be used for digital pest control monitoring, issuing alerts for pest threshold levels. This gives farmers a preventative capability to enact countermeasures.

Sustainable Production

THE PROBLEM

Soils are degraded because of intensive management due to higher demand and export value of quinoa.

DIMITRA & PARTNERS SOLUTION:

Provide education and resources that focus on sustainable production, focusing on soil health through organic manures, crop rotation, cultural practices, biofertilizers, and reduced chemical fertilizers in an adequate optimum ratio.

Crop Performance Prediction

THE PROBLEM

Bolivian farmers face an uncertainty of climate due to a variety of factors, including drought, rainfall, frost, and more.

DIMITRA & PARTNERS SOLUTION:

Crop performance prediction is made possible through advanced weather monitoring and satellite imaging. With this information, farmers take steps to mitigate the risk of crop failure.

TRANSFORMATION THROUGH TECHNOLOGY

With Dimitra's Connected Farmer Platform and other agriculture technology tools, farmers in Bolivia can advance their understanding and practices to improve quinoa crops.

> The agreement signed with the Government of Oruro — Bolivia is of utmost importance for the agriculture of this region, particularly for the quinoa sector. Making information necessary for the soil preparation and improved agricultural practices will enhance performance greatly. With the technology that Dimitra offers, the farmers will be able to improve the productivity and economics of regional agriculture. We will also be supporting product development and soil care and avoiding and adapting to impacts due to climate change.
>
> ***Armando David Vargas Luza, Dimitra's Bolivian Sale Partner***

The future is bright

The governor of Oruro, Dr. Vedia mentions that one of the fundamental objectives of his Government is to grant better conditions to farmers in addition to medium and small farmers of the different municipalities, a slogan that is strengthened with this type of inter-institutional agreement. By deploying Dimitra's technologies, together, Dimitra and the Government of Oruro will strengthen the economic, social, and cultural development of farmers

To learn more about the types of agriculture technology Dimitra is providing for farmers in Bolivia and around the world, visit

www.dimitra.io

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