CLOUD Platforms for integrated control of agronomic production and exports
15 years process based on previous professional experience in Chiquita Brand and exhaustive development of massive Cloud Platform of software 100% JAVA for the Agro-exporter, specialized in production of PINEAPPLE and suitable to any agronomic product and the like.

Costa Rican company TECHINAGRO S.A. since 2008

Stage company acceleration and internationalization
Value proposals

Innovation for the integral management of agricultural production and export, in real time and remotely.

Build a secure and innovative food value chain

Guarantee optimal production throughout the year through ‘Intelligent Production Units'
Customers

Organizations and individuals who manage agricultural production

Segments of interest in Germany

- Large and medium agro-producers
- Small organized farmers
- Insurance (Harvest, Climate)
- Investment Banking
- Cooperation Programs
- Agrochemical companies and certified seed production
- Others
We introduce our Business Unit

**CROP\textsubscript{IA}**

Agronomic Intelligence for Crops

Based on three components:

- **eAGRO**
  Cloud Platform of Agricultural Systems

- **IoT**

- **Big Data Análisis**
Agronomic Intelligence for Crops

**eAGRO**
- Production Control
- Packaging & Logistics Export
- Crops Estimation
- QA
- COSTS
- ERP
- Maintenance & Use Machines
- Traceability, Regulations
- BI

**IoT expertise**
- Sensors based hardware design.
- Own embedded software.
- Apps and Users interfaces.
- Unlimited possibilities

**Big Data Análisis**
- It integrates eAGRO systems info with data from different sources in real time.
- Alerts and Recommendations for each producer-client
- Generation of patterns, scenarios, simulations, trends and the experience of Expert Consultants in each crop
Products and Services

- **Integral Production Control System** for **greenhouses and farms** based on IoT, Cloud Agricultural Systems and Analysis of Big Data, specialized in **pineapple** and adaptable any export crop.

- **MiniFarms powered by CROPIA** (Hydroponic Container Project under development)
  Intelligent Production Units: Greenhouses, Domes, automated through sensors and powered by Agricultural Systems in the cloud.

- Capacity for German Users to sit behind a desk in Munich, or even New York, while growing vegetables in Costa Rica, using a tablet to control sprinklers, fans and heaters in response to changes in temperature and humidity detected by the sensors in fields or greenhouses.

- Capacity for German businessmen and organizations to monitor, control and manage investment projects, cooperation programs or companies in third countries, from their offices through the cloud. Status of management **indicators**, environmental, financial, others, agreed with Client, on Executive tablets 24/7/365.
Products and Services

- **Crop insurance for Farmers**
  Capacity for Insurance Companies to monitor management, performance, environmental, financial, other indicators agreed with the insured Client.

**Climate Insurance for Farmers**
Capacity to generate a personalized and automatic Risk Model for each Producer and its products, through the compilation of hyper-local climate monitoring data and their integration with crop information (eAGRO Systems). See: The Climate Corporation business model, acquired by Monsanto (Bayer)..

**Country Model of attention to small Producer exporter through the Cloud Vision fully realizable already, only requires support and will:**
Use these CLOUD systems of innovative software and state-of-the-art technology specialized in complex agricultural production (pineapple) to create a model of real-time technical support through the Web and mobile devices for the small agroexport producer or entrepreneurial families in the Agro, applicable to any agronomic export product, at minimum or free cost.

The creation of successful projects in CR, and the possibility of replicating them in other latitudes, enables several business models to export services and especially scenarios of collaboration, social impact, job creation and opportunities for better quality of life.
Greenhouses powered by CROPIA
Intelligent Production Units

Greenhouse

CROPIA Environment
Control Box

Circulating Fan
Window Opener

Weather Sensor

Heater
Nutriculture Controller

CROPIA Cloud

Costa Rica Optimal Production Intelligent Agronomy
Main Customers and developing scenarios in CR

- BANACOL (Colombia) since 2008
  Pineapple MD2

- BASF (Germany) in CR 2011
  Rice and Cereals
  Portal and App CLIM for Central America, Panama, Mexico and Dominican Republic

- INPROTSA (Mexico) 2014
  Pineapple MD2 and derived products

- Agroindustrial La Lydia (CR) 2015
Specialized App and Portal suitable to any crop

- **CLIM BASF**  Clearfield Information Management

  APP and Cloud Portal for control and monitoring **RICE production and certified seed**.

  **Client:** BASF Costa Rica

  **to:** Central America, Panamá, México and Dominican Republic

- Production of certified rice seed. Inventory and Forecast
- Lots with certified seed custody in farms of Customers.
- Crop physiological development control. Pests, weeds, diseases
- Agrochemicals and Technological Package application control
- Alerts and messages to clients and executives on their smartphones or tablets
- Requests, Purchase Orders, Contracts, Fact Sheet
- Forms generation and feedback
- Web access from the field in real time or recording SQLite Android Tablet
Key Activities

• Proposal
  80% manage production processes / 20% ERP of TECHINAGRO versus
  80% ERP / 20% manage production processes of SAP, SOFTLAND, others

• Own embedded hardware and software design for IoT

• Constant integration of new technologies
Key Activities

• Grow together. Constant improvements to minimum cost

• Constant integration of new technologies

• Integral platform and Services. Support to the entire supply chain. PaaS for the Agro

• Technical support 24/7

• News and updated information per product of export to Customers
Awards

- SBD Banking System for Development CR, MICIT, MEIC
  First place National Encounter of Entrepreneurship, Innovation and Seed Capital 2011

- CAMTIC Finalist CR Green and Intelligent Award 2012

- SBD Banking System for Development CR
  First place in the First National Competition for Innovation, Technology and Seed Capital 2013