Modular Agrosolutions · Food & Agriculture

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Country: ?? Colombia · Bogotá **Category:** Food & Agriculture **CT Taxonomy:** CT-IC-005 — Precision Agriculture Data & IoT **Impact Areas:** Adaptation **Stage:** Prototype **Team Size:** 5.0 **Website:** https://modtech.site/modularagrosolutions **Funded:** False **Founder:** Cristian Alberto Contreras Caselles

Elevator Pitch

A climate intelligence infrastructure that integrates satellite imagery and on-site technical tracking to optimize crop yields and ensure sustainability standards in areas with limited connectivity.

Climate Problem

We address the lack of verifiable data regarding climate risks and the challenge of interpreting satellite alerts in the field. In areas with poor connectivity, this prevents timely responses and leads to reactive decisions in the field and critical losses.

Solution

We offer a platform that links satellite alerts with on-the-ground validation via NFC/RFID, using an "offline-first" approach. Our AI generates predictive alerts and automates operational routes in response to real-time weather risks.

Revenue Model

We generate revenue through an annual subscription-based B2B SaaS & DaaS model, the sale of enabling hardware (NFC/RFID tags), and professional implementation and training services.

Target Market

Our target market consists of agricultural project management and oversight firms in Colombia, Mexico, Chile, Argentina, and Spain, with a focus on companies that require verifiable reports and audits.

Social Impact

Indigenous Peoples, Persons Belonging to National or Ethnic - Religious and Linguistic Minorities, People Living in Extreme Poverty, Women

Demand Evidence

We have validated the market demand with three pilot projects accepted in Colombia and the support of Startuplab01 and Hello Tomorrow. In addition, companies need to eliminate fraud and automate end-to-end operational audit reports in areas with limited connectivity.

Competitors

We compete with traditional manual record-keeping and expensive hardware platforms. In our region, there is no software optimized for on-site data collection; digital forms such as Cropin or SpaceAg are the norm.

Founder Expertise

I bring more than 7 years of experience in agricultural and technology project management. I am proficient in Python and JavaScript development, applying data analytics to inform strategic decisions in operational environments.

External Support

We filed a patent application for our technology through the PAI program (CO). We were selected for the startuplab01 & hello tomorrow residency (CL) and have secured three pilot projects in Colombia to begin validation.

Team

As CEO, I lead the strategy and analytics efforts. The team includes a Tech Lead for development, a backend and security engineer specializing in low-connectivity synchronization, a sales representative, and an accountant.

Founder

Cristian Alberto Contreras Caselles

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