ESPORA · Food & Agriculture

ESPORA

Country: Colombia **Category:** Food & Agriculture **Impact Areas:** Circular Economy **Stage:** Prototype **Team Size:** 4 **Website:** https://www.naturalscience.com.co **Funded:** NO **Founder:** CRISTIAN DIAZ

Elevator Pitch

ESPORA is a new technology and intra-venture that automates the cultivation of functional mushrooms, bringing science, wellness, and sustainability together in a precise, accessible, and disruptive system for health-focused users.

Climate Problem

ESPORA addresses the limited and unsustainable access to functional mushrooms by offering an automated, low-impact cultivation system that empowers users to grow health-enhancing fungi at home, reducing waste and fostering circular food resilience.

Solution

ESPORA is an automated, patented cultivation device that enables easy, clean, and decentralized production of functional mushrooms—bringing lab-grade precision and sustainability into homes, labs, and classrooms.

Revenue Model

We will generate revenue through direct sales of the ESPORA device, subscription-based kits with spores and substrates, licensing of our patented technology, and B2B partnerships with wellness brands, schools, and research institutions.

Target Market

Our target market includes health-conscious consumers, biohackers, wellness brands, researchers, educators, and urban farmers seeking sustainable, accessible solutions for cultivating functional mushrooms for health, science, and food resilience.

Social Impact

Women

Demand Evidence

We've identified growing global demand for functional mushrooms in wellness, nutrition, and research. Feedback from early adopters, scientists, and educators confirms interest in a simplified, sustainable cultivation solution like ESPORA.

Competitors

Our competitors include mushroom grow kits and DIY solutions, mainly from North America and Europe. Locally, no automated, patented systems like ESPORA exist. Our unique integration of precision, automation, and sustainability sets us apart.

Founder Expertise

Our team brings expertise in biotechnology, mechatronic engineering, agronomy, toxicology, and environmental sciences. We have experience in R&D, prototyping, and scaling patented technologies through public grants and science-based entrepreneurship.

External Support

We have received primary funding from Ki Natural Science, along with public support from Colombia's Ministry of Science (Minciencias) through the "Crearlo no es suficiente" program and from the innovation agency Atenea to develop and validate ESPORA.

Team

Our team includes a mechatronic engineer leading device design and automation, an agronomist optimizing substrates and biological parameters, and scientists managing R&D, prototyping, and regulatory pathways. Together, we drive innovation and scalability.

Founder

CRISTIAN DIAZ

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