Ecoaldeas frutales · Efficiency

Ecoaldeas frutales

Country: Costa Rica **Category:** Efficiency **Stage:** Ideation **Team Size:** 1 **Founder:** Roy Badilla solano

Elevator Pitch

Eco-friendly design Homegrown fruits and vegetables Generates electricity, water, gas, and compost, and supports recycling

Climate Problem

Concrete homes account for 40% of global CO2 emissions and cost families 60% of their income. 100 million people in Latin America cannot afford affordable housing. Earth, bamboo, and recycled waste reduce emissions by 90%, but cities lack the models and funding to scale this approach.

Solution

Create eco-villages with 2 hectares per family or 1 hectare for growing food, building homes out of mud, recycled materials, or bamboo, with free electricity and water, and biogas And in cities, plant fruit trees along sidewalks so we don’t have to rely on supermarkets

Revenue Model

Three sources of revenue: 1) Developers pay for design and construction. 2) Municipalities pay to reduce carbon emissions and waste. 3) Residents pay a low fee for electricity and water, which is 70% cheaper. Tokens fund maintenance.

Target Market

Low-income families looking to buy their first home at an affordable price in ecovillages, wealthy individuals interested in establishing ecovillages, and middle-class workers willing to help create them

Demand Evidence

Costa Rica faces a housing shortage of 150,000 units, and energy costs rose by 30% in 2025. Municipalities have set zero-emissions goals but lack an affordable model. Families want affordable housing. Developers are pursuing green construction to access climate funds.

Competitors

Traditional concrete developers are the main competition, but their homes are expensive and polluting. No local developer builds entire eco-villages using adobe, bamboo, and recycled materials on a large scale. Earthships do exist, but they are not urban.

Founder Expertise

I am an entrepreneur with expertise in earthen construction, bamboo construction, and sustainable building. I understand the housing shortage in Costa Rica and have a network of contacts in the construction industry. I am looking for technical mentors to validate the model and scale up the business.

External Support

I haven't looked into any yet. I'm seeking technical support, mentoring, and validation through Climatelanchpad to launch the first pilot.

Team

Founder: I lead the vision, research, and business model. I have expertise in building with earth, bamboo, and recycled materials. I am looking for a technical co-founder with a background in architecture and mentorship through ClimateLaunchpad to validate our impact and scale our operations.

Founder

Roy Badilla solano

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