Sistema.bio

We work with smallholder farmers to address the challenges of poverty, food security and climate change. We have identified the right products and skills farmers need to become more financially secure, productive and climate smart.

How we work

We provide access to innovative technology, training and financing to help farmers produce clean energy, maximize local resources, and increase their productivity. By building packages that adapt to local conditions, we allow farmers to have the highest return on investment and the best environmental and health impacts.

Scalable and global tech-solution

We operate globally with the potential to bring clean-energy and sustainable agricultural practices to a 100M farmers on over 15% of the world’s farmland. Our strategy and technology has been proven scale, and we are ready to accelerate growth to reach more farmers.

Smallholder farmers grow 70% of the world’s food

Our products and services are designed to reach the full range of family farms worldwide

Sistema.bio Model

About Sistema.bio

Headquarters  Mexico City, Mexico
HUBS:  Colombia, Kenya, India
Operations:  LATAM & The Caribbean, East Africa, Asia, Europe (25 countries)
Established 2010
Impact Areas:  Agriculture, Clean Tech & Energy
Global Team Size 200 (full-time)
CEO & Co-Founder  Alex Eaton
CPO & Co-Founder  Camilo Pagés

www.sistema.bio | February 2020
Sistema.bio reaches farmers by establishing agricultural training HUBs that demonstrate the best regenerative agricultural practices for the region. From there, local farmers are hired as technicians to promote and install technology. We work with local farmer organizations, microfinance institutions, and NGOs to multiply our impact.

Support for Sistema.bio establishes new HUBs, hires local farmer technicians, and supports promotion of our sustainable technology, training and financing. Each new HUB is established in regions with the potential to reach hundreds of thousands of farmers. HUBs cost US$200K to establish and run for 3 years and with the US$10M we will set up 50 centers in Latin America, East Africa and India to create access to an additional 5M smallholder farmers.

**Field Implementation Model**

<table>
<thead>
<tr>
<th>Milestone Achieved</th>
<th>Year</th>
</tr>
</thead>
<tbody>
<tr>
<td>Obtained $300K USD in funding</td>
<td>2010</td>
</tr>
<tr>
<td>Opened first regional office and created Sistema.bio’s Loan Program Revolving Fund with a $500K grant</td>
<td>2011</td>
</tr>
<tr>
<td>Developed key partnership with KIVA to expand Loan Program</td>
<td>2012</td>
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<tr>
<td>Signed contract with International Development Bank FOMIN for a US$260K non-reimbursable investment fund designed for regional growth</td>
<td>2014</td>
</tr>
<tr>
<td>Closed US$1M investment round</td>
<td>2015</td>
</tr>
<tr>
<td>Opened first Nicaragua office</td>
<td>2016</td>
</tr>
<tr>
<td>Expansion to Colombia and Kenya</td>
<td>2017</td>
</tr>
<tr>
<td>Expansion to India, growth in LAC and East Africa</td>
<td>2018</td>
</tr>
<tr>
<td>Closed US$12M investment</td>
<td>2019</td>
</tr>
</tbody>
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**Key Awards**

- 2010 BID Challenge International Winner
- 2011 Ashoka Fellowship and Iniciativa Mexico
- 2012 New Ventures Scholarship
- 2013 Clinton Global Initiative Recognition
- 2014 MIF IDB Technical cooperation
- 2016 USB-Visionary Finalist
- 2017 Buckminster Fuller Institute Finalist
- 2017 Endeavour Fellowship
- 2019 Ashden Award winner, category for clean cooking
- 2019 Schwab Foundation Social Innovation awardee by the World Economic Forum
- 2019 UN Leadership Award for SDG7

**Impact to the date**

- Systems installed: 11,518
- People impacted: 63,350
- Waste treated: 9,054,308 kg
- Trees saved: 1,503,257
- CO₂e mitigated: 100,217 ton

**Customer lifetime value using Sistema.bio technology**

The smallest unit requires only 1 bucket of waste per day (2 cows)

- Produces 3h of biogas cooking
- Produces 3h of biogas cooking
- Which is equivalent to 2.1 kWh electrical energy, or 0.5 kg of LP gas, 0.75 L gasoline, 2.5 kg of firewood

- Results in cash savings and incomes generation through energy, fertilizer savings, health savings, time savings, soil productivity, and better harvests

- And also produces 80 L of biofertilizer/day (5 ha fertilized per year)