

Project title:

Terra Preta

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Key Partners 💛



- Partnerships with coffee/cocoa suppliers
- Coffee/cocoa suppliers (traders and cooperatives)
- Carbon Credit Standard Issuing Body and Auditor
- Manufacturing partners

Key Activities

What are the three main activities needed to create/realize your project?

- Set up of manufacturing network for pyrolysis reactor and ensuring
- Onboarding & training of operating team in biochar production and application
- Monitoring and sales for highquality carbon credits

Key Resources



- Reactor design and manufacturing network
- Carbon removal certification
- Sales and customer success staff

Value Propositions 🎁



How do you explain your project to a stranger in 1 minute?

Terra Preta provides credible climate action in the form of transparent and permanent carbon removal credits with social and environmental co-benefits for rural communities in the Global South.

We improve the margins of their farmers through reduced fertilizer usage and increased crop vield while lowering the footprint of the produced cacao/coffee.

We do this by enabling the decentralized production of biochar, a natural soil enhancer made from farmers' agricultural residues, by partnering with coffee/cacao suppliers and equipping their workforce with our mobile cost-effective reactor and our integrated digital control system leveraged by our scalable operations model.

Customer Relationships (*)





How do you actively involve your community in your project (beyond just looking/listening)?

With our partners and insetting projects.

- Direct communication channels
- Aligned project development
- Farmer engagement programs
- Equipment delivery and setup
- Ongoing maintenance and support

On the other hand, the companies with net zero commitments that purchase our carbon credits.

- Limited direct communication
- Sales through marketplaces

Channels



Voluntary Carbon Market

- Utilizing marketplaces and brokers for sales.
- Ouick customer acquisition due to high demand and low supply.
- Cost-effective customer acquisition strategy.

With our partners and insetting projects

- Direct sales/ Close relationships
- Leveraging partner relations

Customer Segments

Who do you want to address with your idea or project? Who will jump at it? Name your main target groups.

Coffee/cacao buyers looking for insetting approaches

- Improved climate resilience of soils, plants, and farmers
- Improved farmer margins
- Significantly reduced carbon footprint of raw material

CO2 certificates buyers on the global voluntary CO2 market

- Sustainability managers with netzero emission targets
- low-carbon intensity industries such as banking, insurance, and IT due to high willingness to pay

Cost Structure 💸

What costs do you expect to incur to realize your idea?

What are the costs?

- Payment to operational partner (transport, worker, etc) ca 50 USD per ton of removal
- Manufacturing of reactors (ca 5000 USD per unit)
- Product development (mechanical engineering and software development)
- Carbon removal credits sales
- Customer success
- Certification costs

Revenue Streams 🥬

1. **Impact:** What does your idea do for the climate? How do you measure/verify the impact?

150 USD per ton of carbon removal

1 ton CO2e removed from atmosphere per ton of carbon removal

0.6 ton CO2e reduced in fertilizer emissions per ton of carbon removal

Livelihood of 5 people improved for every 25 tons of carbon removal

By 2030

- Remove 5 million tons of Co2 (Through biochar)
- Reduce 3 million tons of Co2 (Through fertilizer reduction)
- 1 million livelihoods improved (Through improved farmers margins)
- 2. **Scaling/Expansion/Unfolding:** How to increase the impact of your project?
 - Key to scalability: Partnerships with suppliers
 - Goal for 2027: Establish over 40 partnerships with suppliers
 - Goal for 2027: Have more than 5,000 reactors in operation
 - Partnerships enable reaching a large number of small-scale farmers in the Global South
 - Suppliers' networks and distribution channels facilitate reaching and empowering farmers
 - Partnerships play a crucial role in expanding reach and impact

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