



Planboo

X



Monday 12th December 2022

Planboo

We track biochar production in the tropics
to scale carbon removal & improve soils

Trusted by:



Co-funded by the
European Union



AIRMINERS

VINNOVA
Sweden's Innovation Agency

almi invest

Founding Team



Freddie
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Why?

**To tackle
climate change
& improve
tropical soils**

CARBON REMOVAL

Supporting the urgent need for carbon removal to avoid catastrophic climate change

SOIL HEALTH

Improving soil health and agricultural practices in the tropics

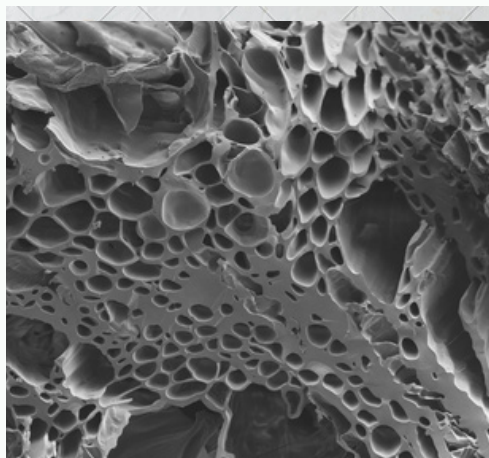
INEQUALITY

Carbon finance provides an opportunity to reduce global inequality and improve lives



INCREASE CROP YIELDS

Mixed with compost and fertilisers to create long term soil health benefits



WATER HOLDING CAPACITY

Increasing resistance to droughts and heavy rain



2,000+ YEAR PRACTICE

It's found in soils throughout the world as a result of forest fires or historic soil management practices.

Private & Confidential

Biochar for your soils

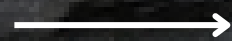
Biochar's unique properties: porous structure and alkaline pH are ideal for restoring degraded soils

Turning **biomass** into **biochar**



Biomass

Biomass sequesters carbon from the atmosphere through photosynthesis



Pyrolyze

When we pyrolyse biomass in a kiln, the carbon is fixed from entering the atmosphere



Biochar

Biochar is a carbon-rich material acts like a sponge, serving as a habitat for soil microorganisms and water



Mixing

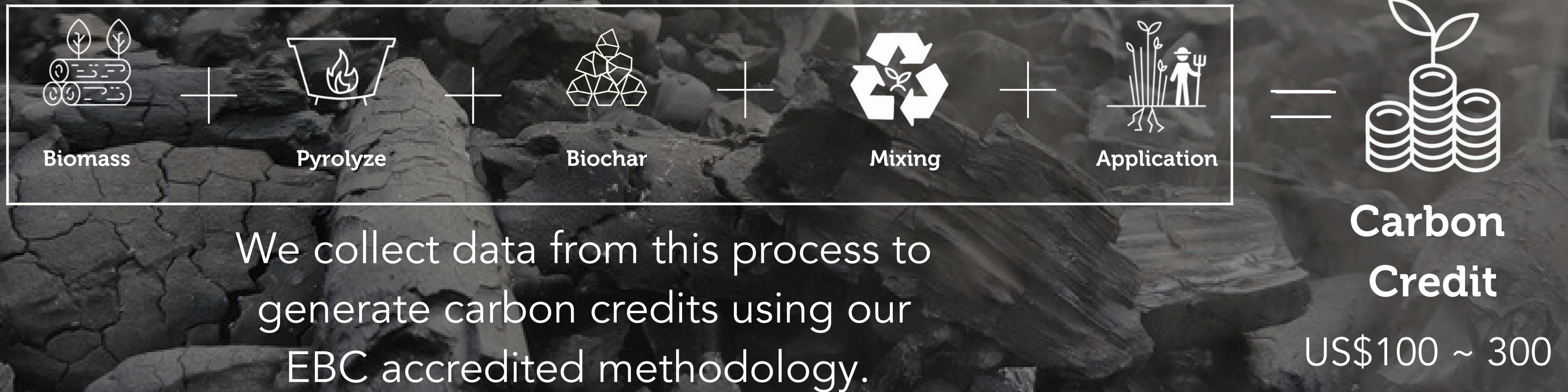
Biochar can be mixed with composts, organic and synthetic fertilisers to increase crop yields



Application

When applied to soil, it will remain for up to 1,000 years

Turning **biochar** into **USD**



ithaka institute for carbon strategies

 **CARBON STANDARDS**
international



 **Planboo**

Success story

Improving soils and generating carbon credits with Elpitiya



Win-Win relationship



First carbon removal credits in Sri Lanka



Getting paid to improve soils, save fertiliser & taking climate action



Biochar - how does it work?

Production

Using a locally manufactured kiln, the waste biomass is turned into biochar. During the process, which takes between two and five hours, approximately, the waste biomass is turned into a porous charcoal-like substance made of around 80 % pure carbon.



Application

Through mixing with compost, the biochar is charged with nutrients and microbes. When this mix is applied to the land, not only is the carbon stored for >1000 years (generating carbon credit) but the soil health and your crops will thrive.



Results of the biochar project

Planboo provided the tools, technology and training, Elpitiya their ambition and

Ruwan xxx, Devitura Estate Manager, is excited about the success and expresses the positive outcomes of the project:

"We can use our own resources on like a long-term because we are biochar in the improving it the ts of this last"

With the operation up and running, it's clear that the benefits continue beyond the generated carbon removal credits. Biochar generates long-term impact for the plantations for years to come by improving soil health, creating opportunities to employ more workers, and reducing the need for fertiliser. With the revenue it makes, Devitura can invest in improving the Estate on many levels.

Planboo x elpitiya

Success story of Elpitiya Plantations Biochar operation



Improving soils with carbon credits

It's a win-win relationship

In 2022, Elpitiya Plantations (EPP) and Planboo Eco (a Swedish ClimateTech company) developed a win-win relationship to improve estate soils and generate carbon credits in a first of its kind project for Sri Lanka. Using an ancient Amazonian practice called Terra Preta, the application of biochar to

soils is proving to be a success at Elpitiya's low-country Devitura Estate. Biochar is the product of biomass cooked at high heat, when applied to the soils with compost it remains for >1000 years, improving soil health. This removes the carbon from the atmosphere and is, with help from Planboo, sold as carbon credits.

"We are doing what needs to be done for the environment, for the country and for the people"

-Izzadeen Ishafir, Sustainability Officer at EPP



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Global opportunities



USA
Listed 480 credits
Sold at 200-300 USD
O Patch

Guatemala

Colombia

Ecuador

Brazil

Sri Lanka

Elpitya

Pilot - 2021/22
80 CDRC
Scale - 2023/25
13,500 CDRC

Lalan

Pilot - 2022/23
240 CDRC
Scale - 2024
24,000 CDRC

Cameroon

Uganda

Kenya

Malawi

400 CDRC in 4 months

Africam

Laos

Vietnam

Namibia

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Some learnings



Collaboration is key



So much room for improvement



Transparency is absolutely vital



Opportunity to do actual good!



Next steps

CONNECT

COLLABORATE

CONTRIBUTE

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Thanks for your time!

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