



DARK EARTH CARBON

Dark Earth, Clear Skies

Efficiently reversing climate
change by investing in those
affected most



50 Billion tCO₂e/year

The scale of carbon removal needed to halt and reverse climate change is almost beyond comprehension

Without **supremely scalable, cost effective** solutions we have **no chance** of achieving any climate targets

Circular economy

- All about transforming a waste good into something productive
- 3Rs: Reduce, Reuse and **Recycle**
- Through pyrolysis organic waste is transformed into an input for farmers, whilst simultaneously sequestering carbon
- By recycling a waste product, DEC reduces the stock of CO₂ in the atmosphere while also making a valuable soil enrichment
- In 2019, Intergovernmental Panel on Climate Change (IPCC) highlighted biochar as an ideal material for carbon sequestration

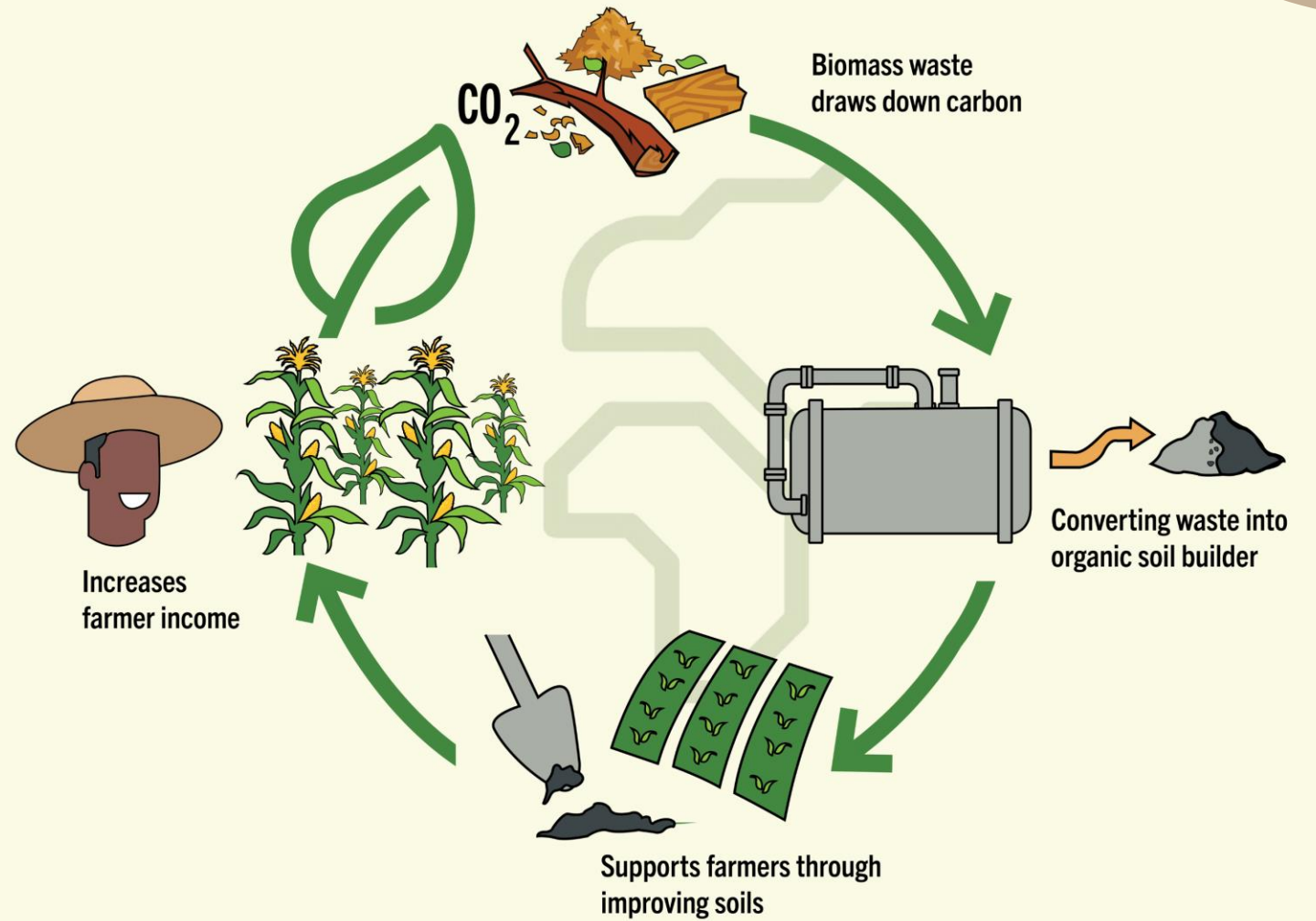
Dark Earth Carbon (DEC)

- Start up founded in 2023
- Capitalizes on the demand for carbon sequestration and carbon credits through the conversion of organic waste into a biochar
- Biochar used to regenerate and improve soil health for long-term yield improvements
- DEC's business model helps to solve two main problems
 - the environmental burden of organic waste
 - the lack of affordable inputs to improve soil health

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FLW partnership goals

- Establish DEC's second facility in Kigoma, Tanzania
- Transform 4,000MT of agricultural waste into 2,000MT of biochar by the end of the partnership
- Certify carbon sequestered to claim carbon credit income
- Expand outreach and sales of BCF to smallholders
- Build foundation for future franchise and expansion of DEC

Integrating smallholder farmers

- Many African soils have low nutrient density due to slash and burn farming and heavy weathering.
- The people who farm these lands are most at risk of the adverse effects of climate change, while simultaneously having the smallest carbon footprint by an order of magnitude.
- From one application of biochar small holder farmers can;
 - Reduce the risk of famine
 - Increase resilience to drought
 - Improve their crop yields and their income
 - DEC works to integrate smallholders that are otherwise excluded



Why Africa? Why now?

Biochar's agricultural applications are best suited to tropical soils which are heavily acidic and water stressed

Low costs of production and biomass availability make the project scalable and viable

Technology already exists to start focusing on scale and unit economics

Measuring and tracking impact

- Environmental impact
 - Part of certification of carbon credits
 - Whole cycle of carbon emissions and capture has to be tracked for credits
- Social impact
 - Partnership with NGOs
 - Ongoing demo plots and field trials
 - Independent audits on smallholder production

Franchise and further expansion

- By mid 2025 DEC will have two sites fully operational and is actively raising funds to scale now for further expansion
- Delivers low cost, high quality credits in an increasingly skeptical market
- Fully integrated smallholder impact alongside livelihood creation and transformative levels of carbon sequestration
- Easy to scale – different options for revenue generation mitigate risk



Q&A

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