



General  
Biochar  
Systems  
by the next 150

# Biochar Production in Mexico: A Comprehensive Overview

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Luisa Marín, Managing Director

# What is the most pressing challenge when producing biochar?”

1. Secure residual biomass

2. Setting up functional operations (hiring, equipment fine tuning, lab tests, storage, permitting, etc.).



# Why Agricultural Waste?

**6 Billion tons**

Agricultural Crop-Based Products

**\$8 Trillion**

Market Value

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**1.6 Billion tons**

Waste Biomass Generated

**19%**

Contribution to Human-Caused  
Emissions

**Biochar**

Effective waste  
management solution

Revenue Generation

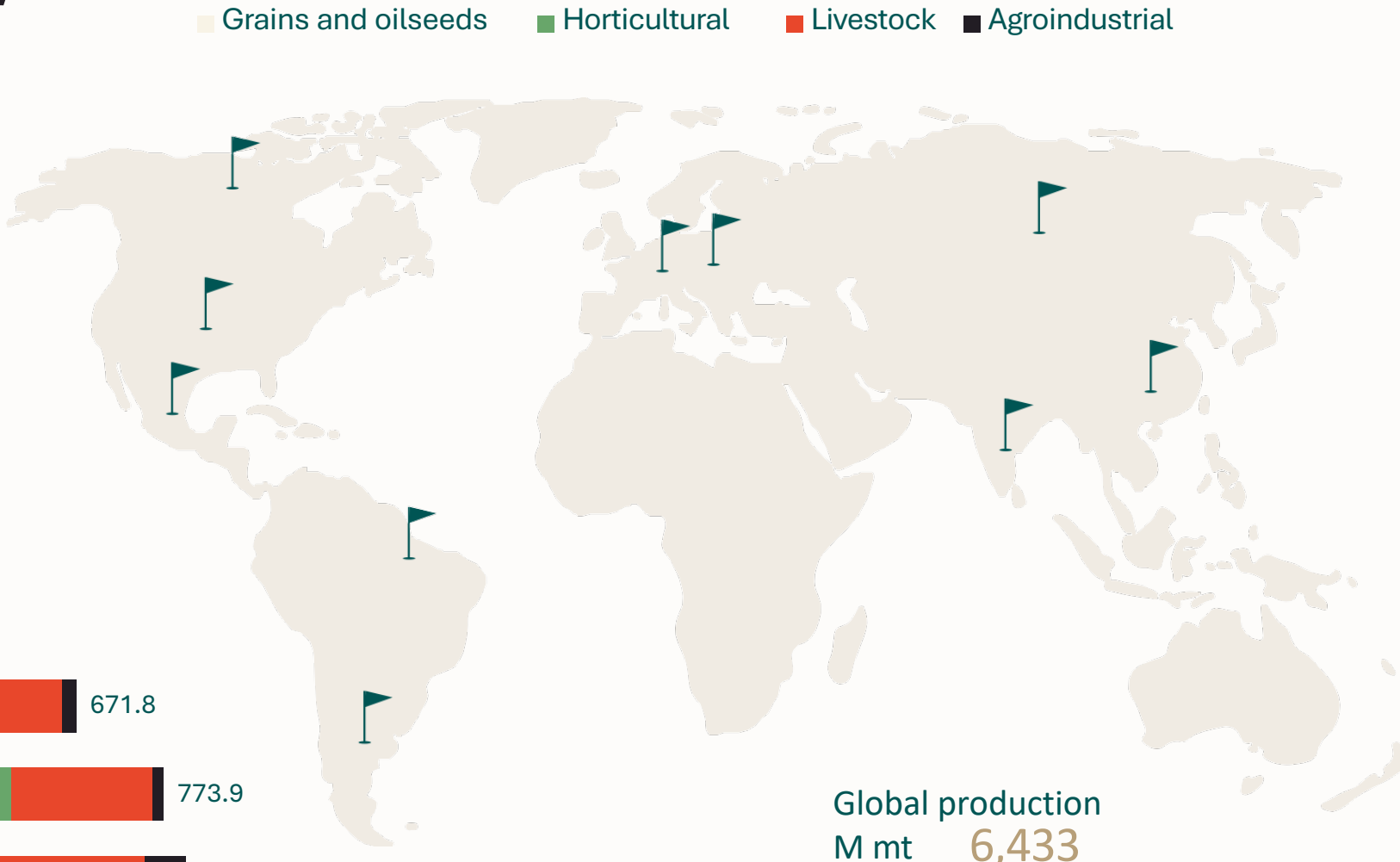
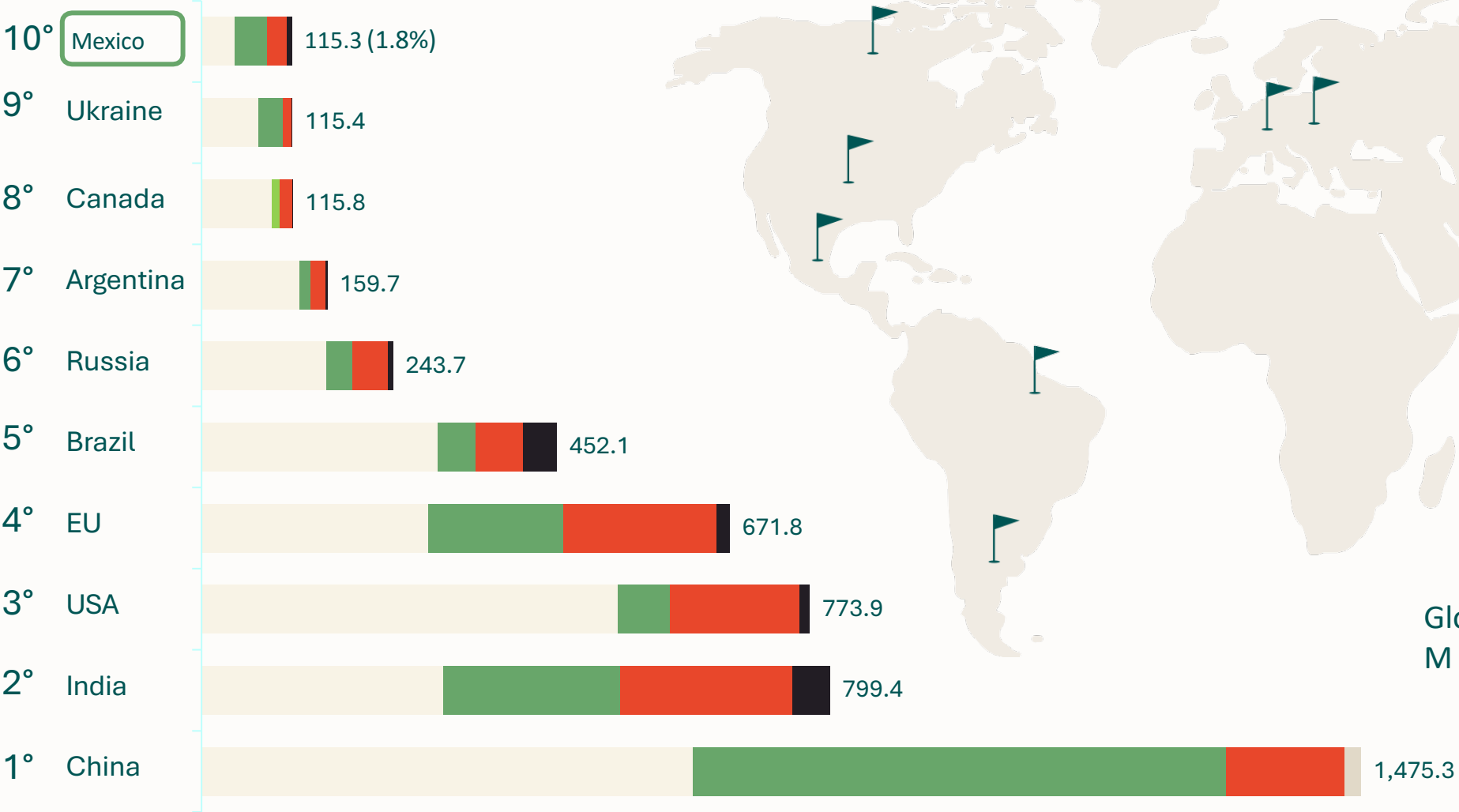
Cost Reduction

Carbon Removal



# Global overview

## Estimate 2023

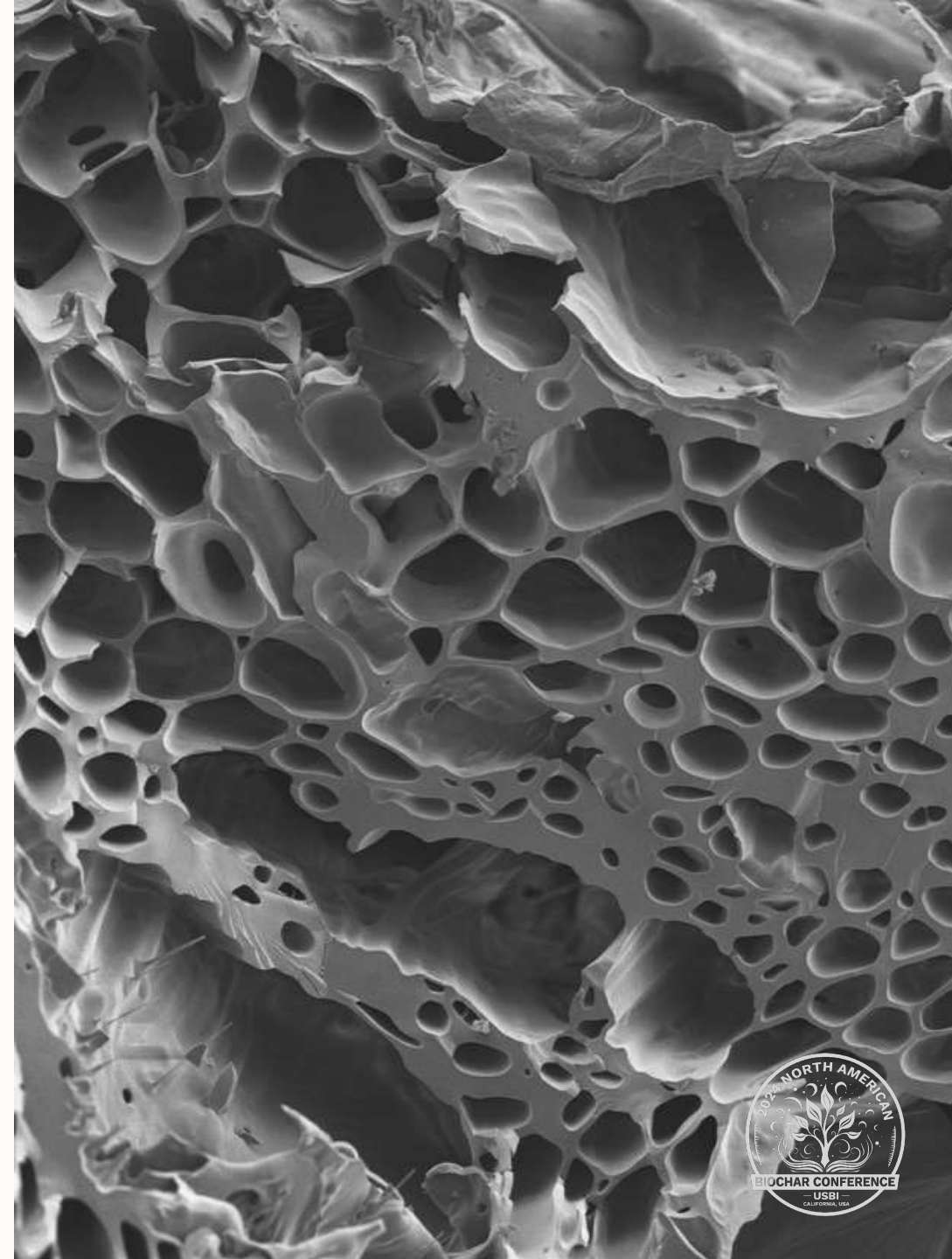


Global production  
M mt **6,433**

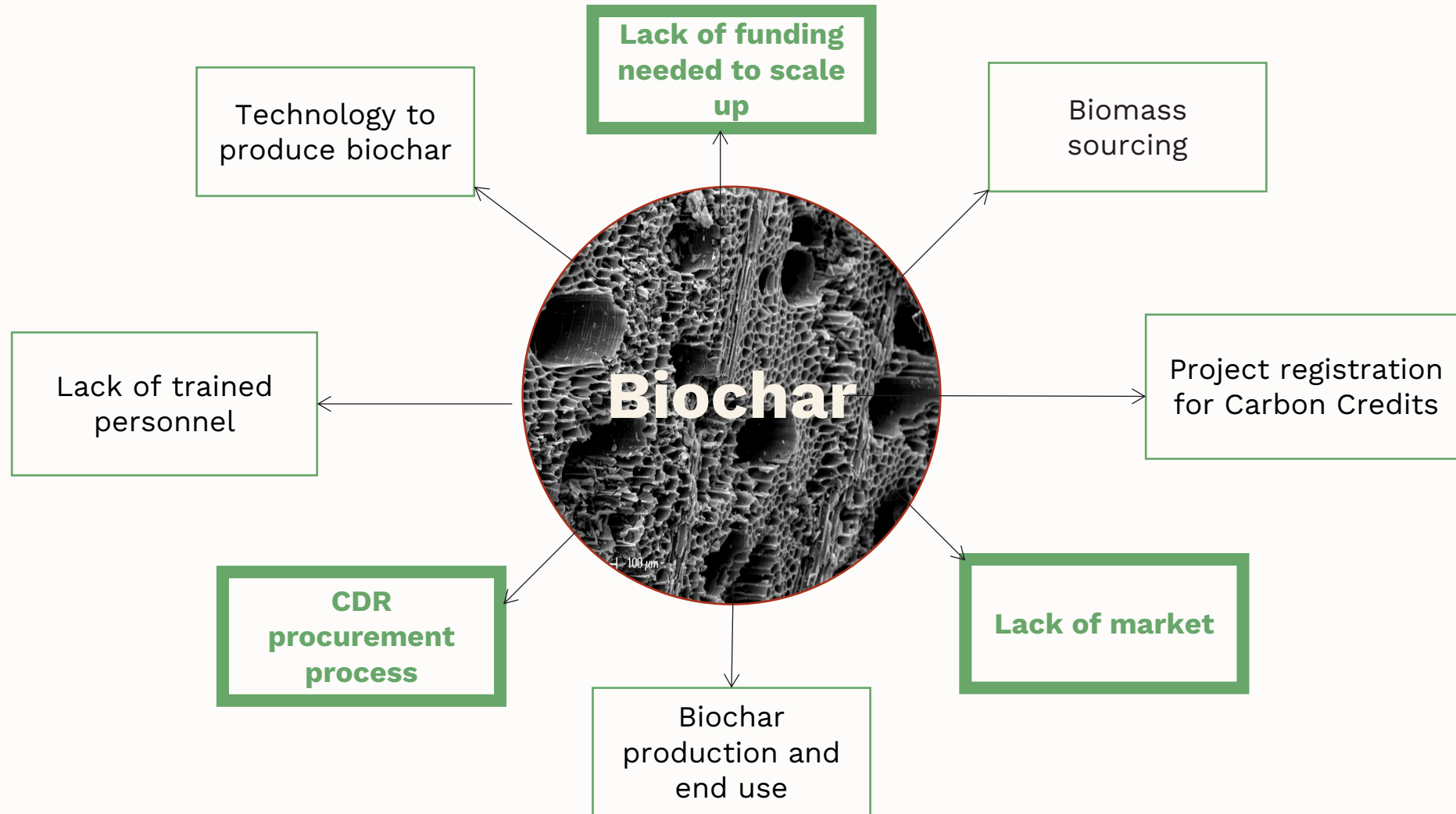


# Biochar...a multipurpose key

- Climate Change Mitigation - **long-term carbon sequestration locking away atmospheric CO2 for centuries.**
- Soil Health Enhancement - **biochar enhances soil health by improving fertility.**
- GHG Emission Reduction: **indirectly lowers GHG gas emissions associated with fertilizer production and application.**
- Water Conservation and Quality: **water retention, soil structure, plant growth, reducing the need for chemical fertilizers.**

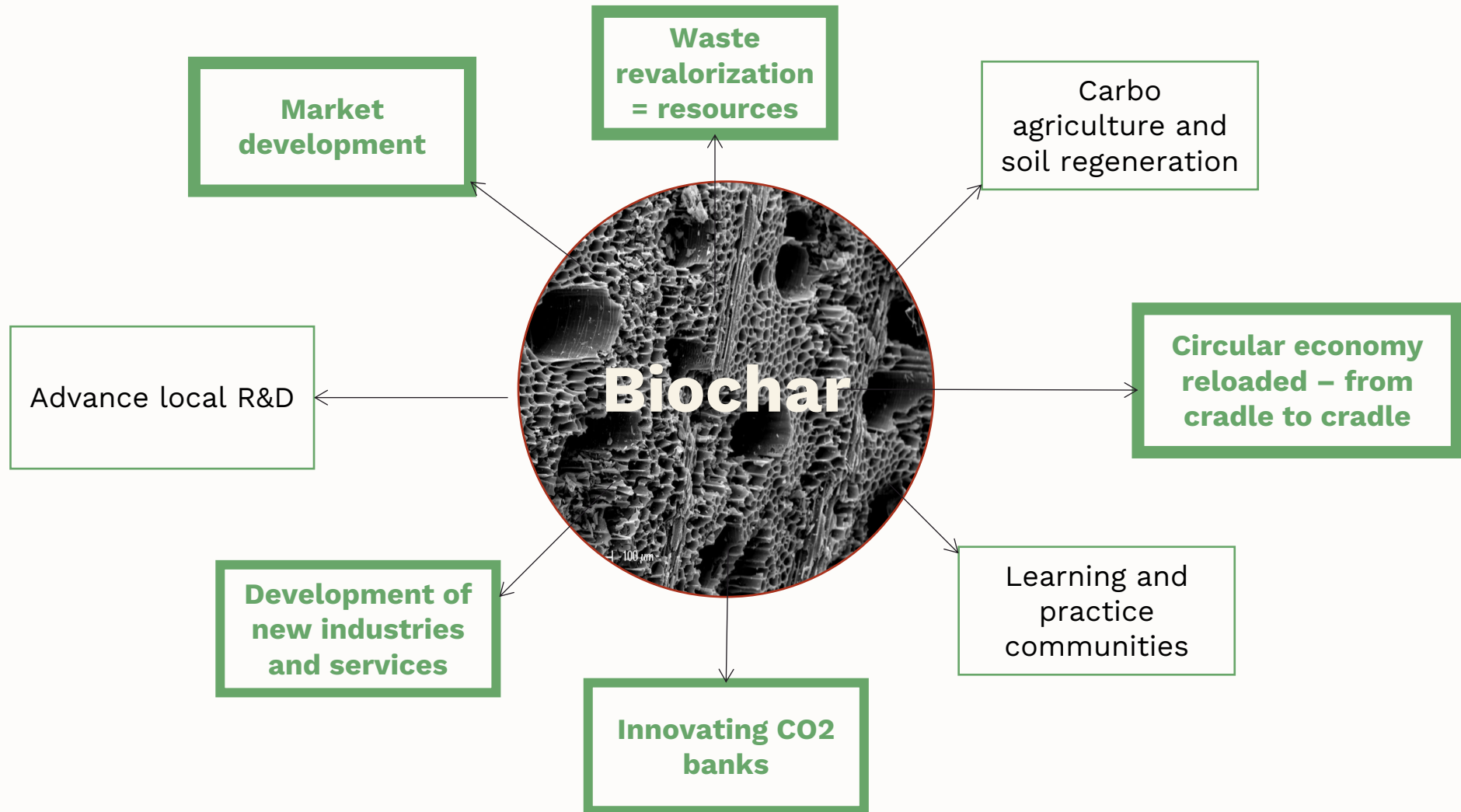


# Biochar industry challenges





# Biochar industry opportunities



# Carbon Markets Growth & Projected Fungibility

## Voluntary Carbon Markets

**\$2Bn**



**20x**

Expected Growth  
by 2030

**\$40B**

Expected Market Value

- Voluntary offsets are generated by private entities executing carbon emissions reduction or removal projects issued through private offset registries.
- They are voluntarily used or purchased by a corporation against their own emissions to make their operations or products more sustainable or carbon neutral.

## Compliance Carbon Markets

**\$850Bn**

- Compliance offsets are issued by the governing body of a compliance industrial emitter program and are bought by regulated emitters for their compliance
- Historically, compliance offsets could not be generated by private companies
- However, several ETS' (incl. EU ETS) have announced the incorporation of carbon removal credits in coming years.





# Collaboration is key...

- Governments
- Private sector
- Industry
- Academia
- Civil society organizations
- Communities
- Human resources

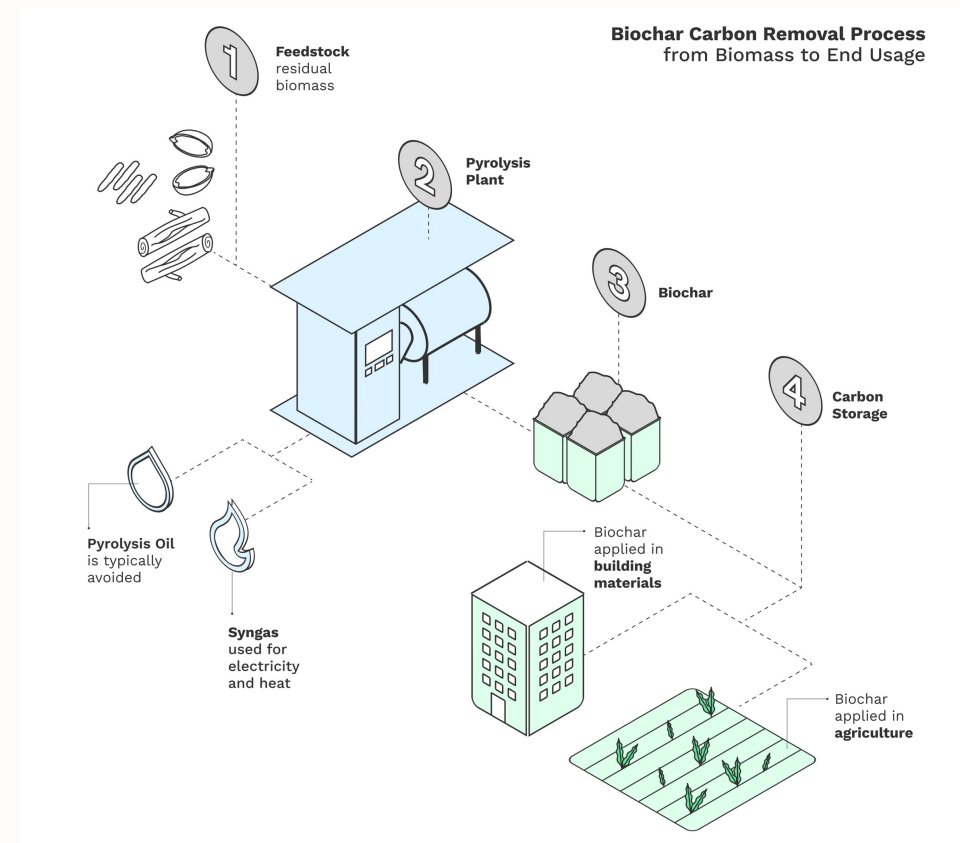


Image credit: Carbonfuture



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