

# Biochar and its potential for the (natural) building materials industry

from natürlich bauen

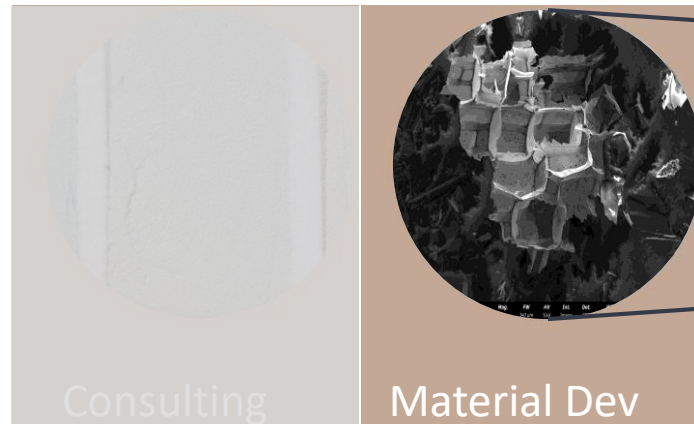
COPILOT/PILOTS4U "Scale-Up & Growth" – Thomas Mathis – 23.09.2025

# What we do

since 2012



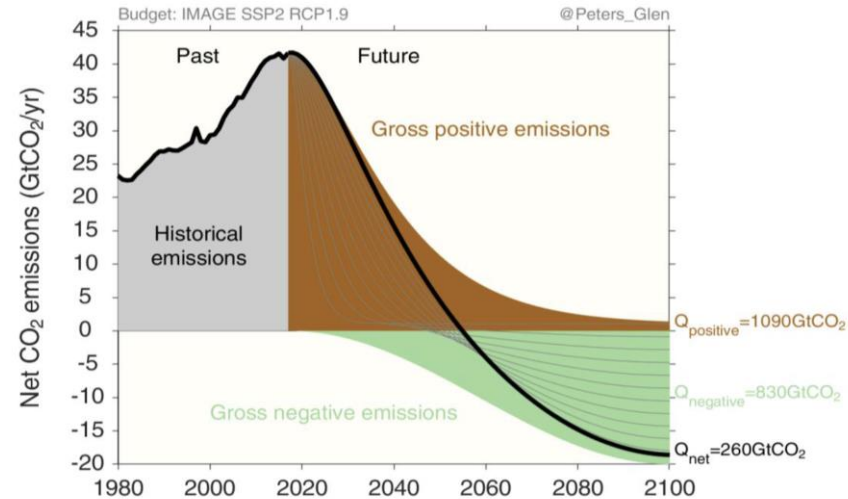
since 2019



Agile  
Development

# The problem

## 40% of global CO<sub>2</sub> emissions!



# New option to make things better



# Biochar, ideally a by-product

**Property**

*Technical Biochar*

**Property**

*Carbon*



# Advanced knowledge through R&D projects

2023 – 2026 | FFG Klimaneutrale Stadt | **TheSIS** |

2024 – 2027 | EU HORIZON CL5 | **FuturHist** |  Co-funded by  
the European Union

2025 – 2028 | FFG Kreislaufw. und Produktionstech | **missing.link** |

2025 – 2028 | FFG Klimaneutrale Stadt | **BIOCHARm** |

## Closed Projets

2023 – 2024 | FFG Basis | **Carbon Clay** |

2023 | FFG | **Ökoscheck** |



# Carbon Clay

= Biochar + Clay



**natural**



**moisture buffering**



**regional**



**circular**



**insulating**



**CO2-positive**



**economic**



**aesthetic unique**

**... building material for the interior**

# Internal Insulation System



125x62,5x2cm

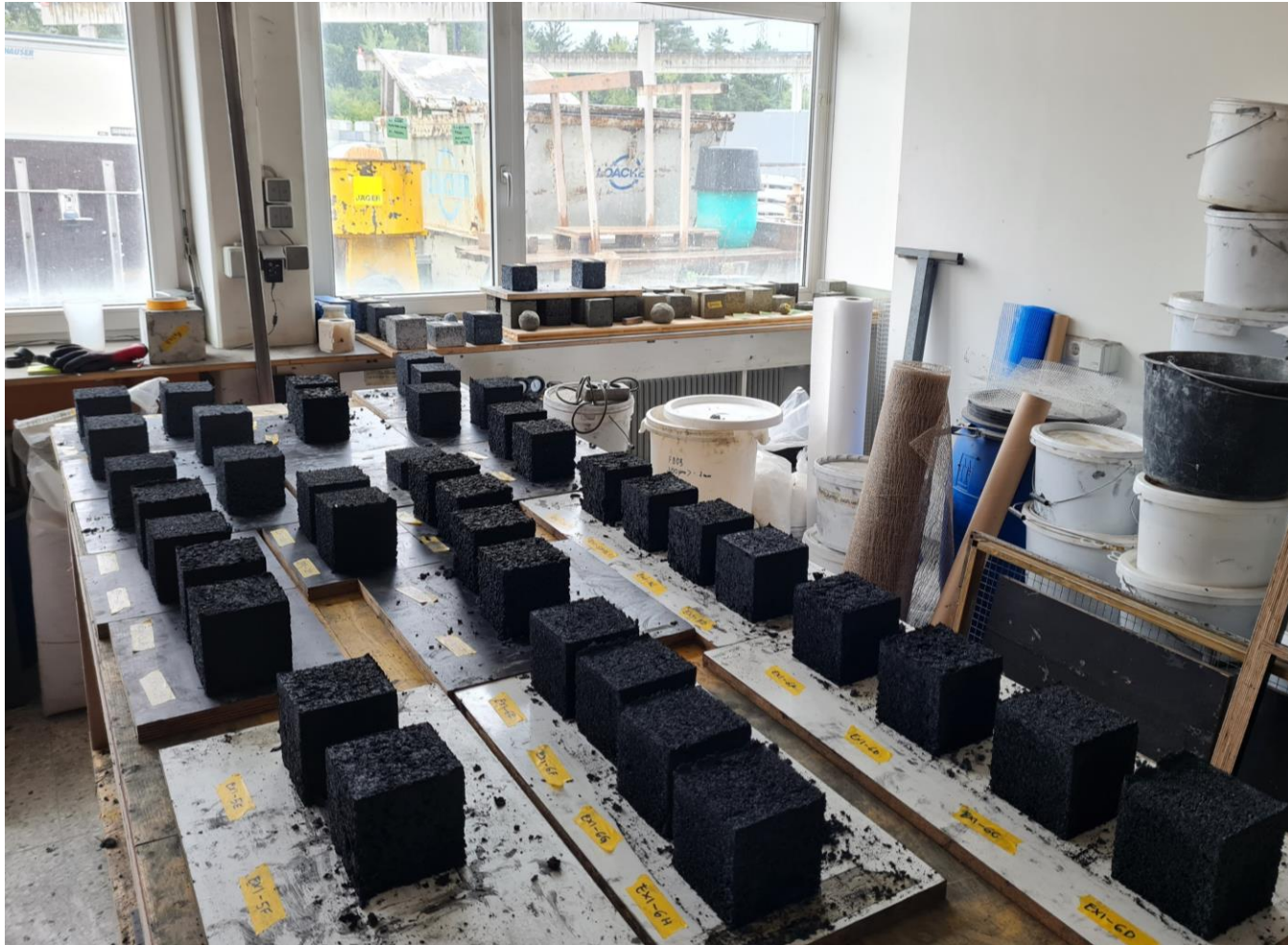
600kg/m<sup>3</sup>

+



50kg/m<sup>3</sup>

# External Insulation System



**FuturHist**



**Co-funded by  
the European Union**

# Sink Stone



56x25x10cm  
700-800kg/m<sup>3</sup>



5 kg CO<sub>2</sub> / Stein  
35 kg CO<sub>2</sub> / m<sup>2</sup>

# Fine plaster



C-sink with an aesthetically unique look

# Potential for the industry?

Huge!

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## ***Our Mission***

*Creating natural rooms  
that make you feel  
good. Sustainable,  
innovative, but reduced  
to the essentials.*



# Thank you



# BIOCHARm

Potential analysis of the use of biochar in construction as a contribution to achieving climate neutrality

Over 70 construction material use cases under review

