

An Introduction to Enriched Biochar



Company Snapshot

- Carbon Gold is the world's leading biochar company
- One of the world's first companies to commercialize biochar
- We produce a range of enriched biochar soil products



BIOCHAR – WHAT IS IT?

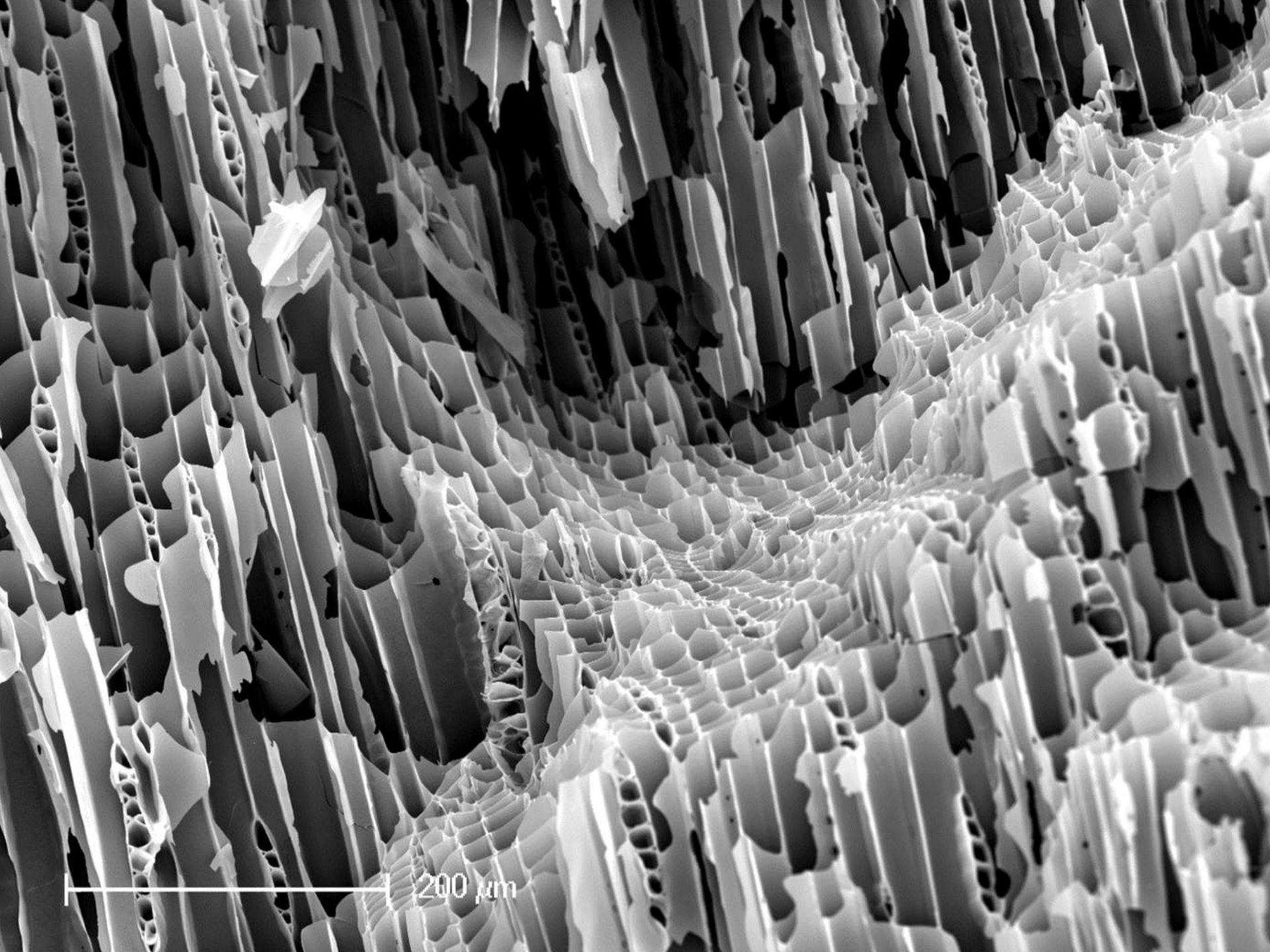


Biochar

Biochar is the solid residue formed by controlled pyrolysis of organic matter in low / no oxygen environment



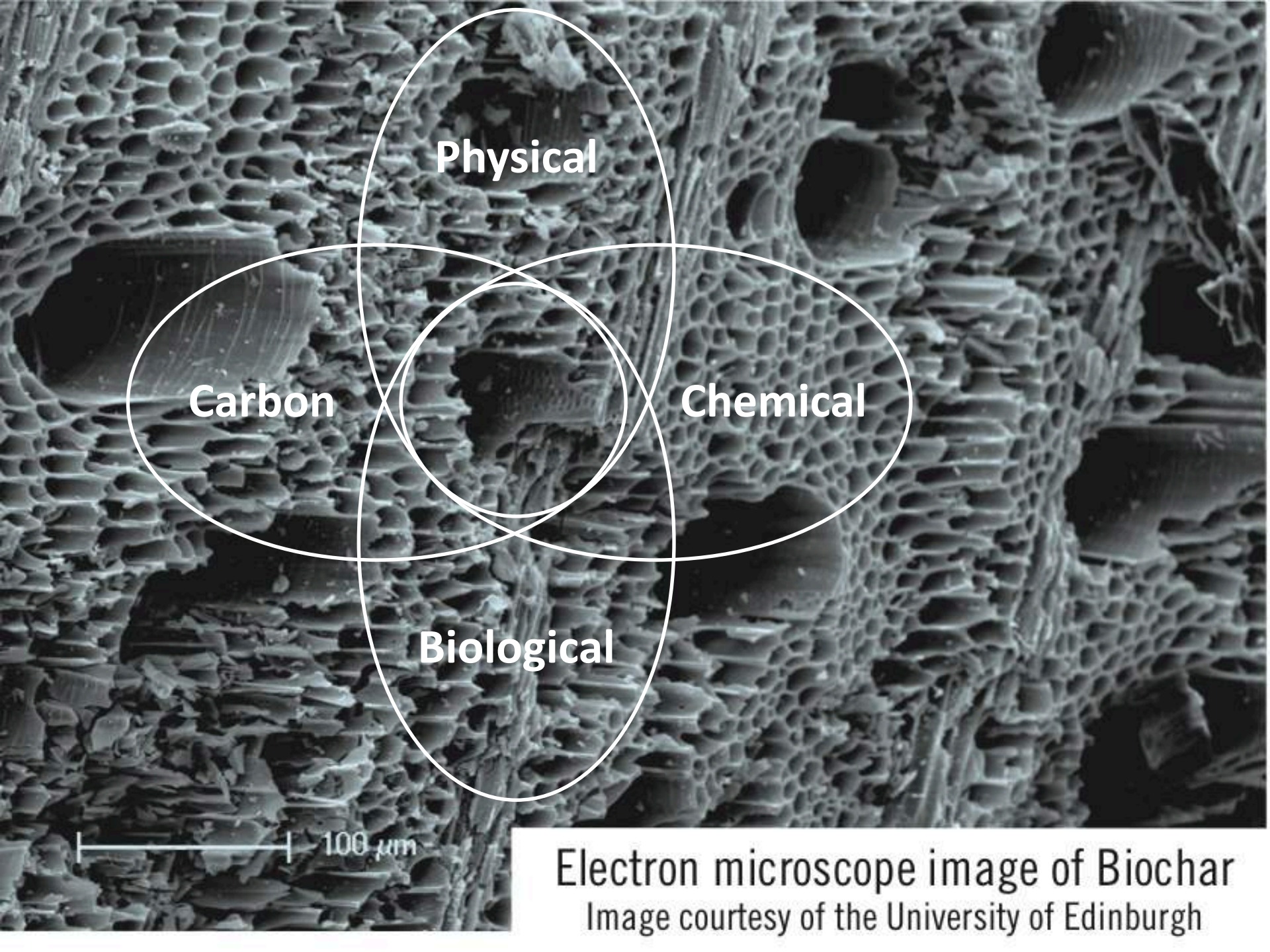
Biochar has physio-chemical properties suitable for soil improvement and carbon storage



200 μm

BIOCHAR – HOW DOES IT WORK?





Physical

Carbon

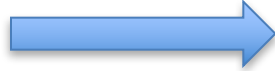
Chemical

Biological

100 μm

Electron microscope image of Biochar
Image courtesy of the University of Edinburgh

Physical



Increases water holding capacity
Regulates water availability to plants
Improved aeration / reduced compaction

Chemical



Reduced nutrient leaching
Reduced bio-availability of heavy metals

Biological



Increased disease resilience
Reduced fungicide use

Carbon

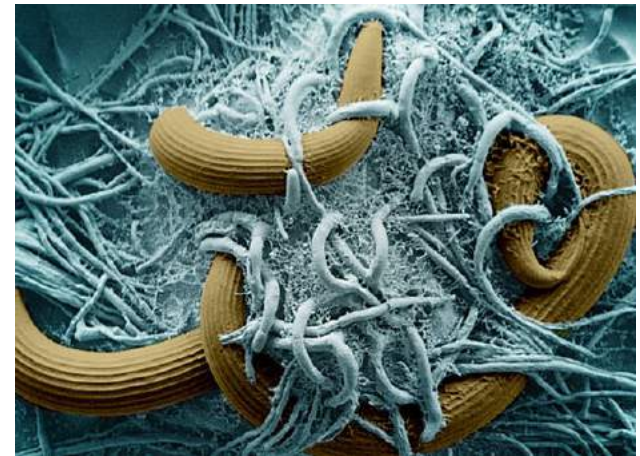
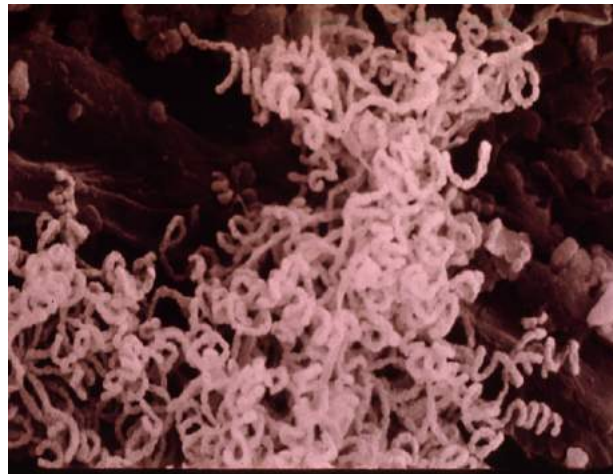
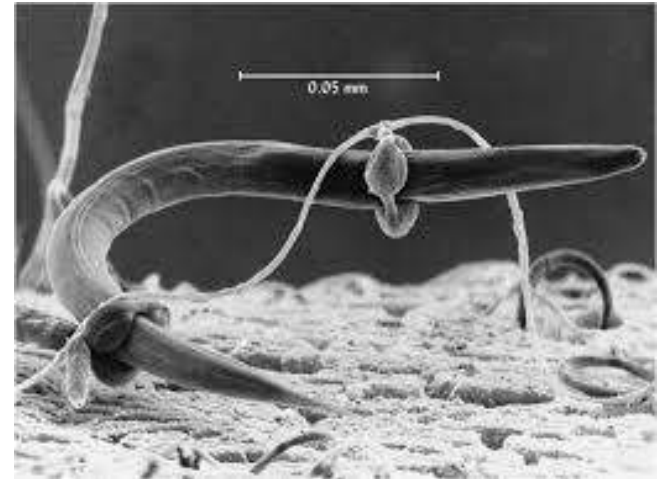
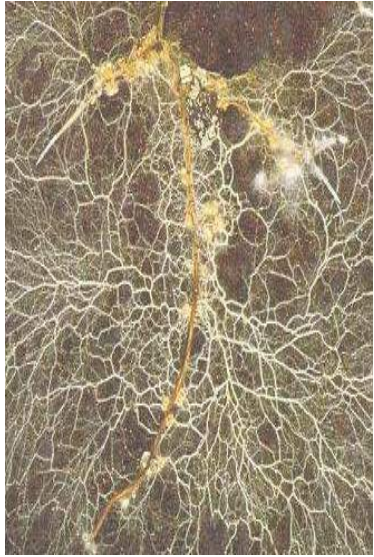


Reduces CO2 footprint

Biochar Refugia

10 μm

Carbon Gold's Enriched Biochar



Mycorrhizal fungi

Wormcasts / Vermi-compost

Trichoderma

Partnership with GIST

- Carbon Gold and GIST will expand the application of biochar in the vineyard and olive sectors
- The collaboration will also see us support the efforts of GIST and KuanZa Ltd in Africa.
 - Here biochar will have a positive impact on crop yields, improve water management in stressed soils and help create a more sustainable future for small-scale farmers in Africa.

