

The natural solution for climate protection

Background

Atmospheric concentrations of carbon dioxide, methane and nitrogen oxide are higher than they have been for 800,000 years (higher than they have ever been). Climate change has already led to an increase in the global average temperature of approximately 1.0°C compared to pre-industrial levels. The rise in global temperature will reach the 1.5°C mark, agreed in the Paris Climate Agreement, somewhere between 2030 and 2052, and possibly even earlier!

By 2050, greenhouse gas emissions are to be reduced to net zero, in accordance with the aims of the EU Commission. To achieve these goals, drastic changes in the economy and agriculture are necessary.

In order to fulfil these ambitious climate protection goals, not only must CO₂ emissions be reduced, but CO₂ must be actively removed from the atmosphere. The technical prerequisites and know-how for this process are available. However, a rethinking of soil management and an interdisciplinary approach between agriculture, industry, politics and the capital markets are needed.

Utilization of the land

Around 2.4 billion tons of carbon are stored in Germany's agricultural land. This means that soil stores more than twice as much carbon as the entire tree population in German forests and more than three times the amount of CO₂ that is released in the whole of Germany per year.

The amount of carbon that is stored does not only depend on the soil type but also on how a land area is used. While farmland stores an average of about 95 tons of carbon per hectare, permanent grassland stores an average of 181 tons per hectare. Grassland on drained moorland soils can even contain more than 1,000 tons of carbon per hectare on the first two meters of soil.

Humus is the most important carbon storage

The crucial substance that permanently binds carbon in the soil is humus. How much carbon a soil can store therefore depends on its humus content. In turn, farms can influence the formation of humus by how they cultivate the land.

In addition to its function as carbon storage, humus offers other advantages for agriculture. For example, high humus content improves the water storage capacity of soil, reduces the risk of erosion and enables higher and more stable yields (soil diversity).

An enrichment of the humus level on all available farmland soil by just 1% would offset the entire CO₂ emissions worldwide.

"I would like to see agricultural innovation get as much attention as renewable energy, because its success is at least as important in stopping the climate crisis."

Bill Gates, Microsoft Founder



Investment Strategy

According to the EU Commission, greenhouse gas emissions are to be reduced to net zero by 2050. To achieve these goals, drastic changes in the economy and agriculture are required.

With the help of the EU-regulated capital market and the support of politicians, the agriculture and forestry sectors are now to be fairly remunerated by **humusCO₂mp** for their performance of carbon storage in soil and forest in order to launch a global humus enrichment initiative. A new product category is being created.

The storage of CO₂ is increased naturally by further improving soil quality and increasing the build-up of humus. The process of carbon farming also improves biodiversity and promotes the production of healthy food.

In order to achieve its economic goals, the **humusCO₂mp** fund will issue CO₂ certificates based on the gold standard, which can be traded on regulated trading platforms. This will open up an interesting source of income with sustainable and regional effects for the environment and people and close the loop to the capital market. **humusCO₂mp** managers will regularly monitor the entire process of Gold Standard certification in order to maintain the required standard in the long term.

Did you know? An enrichment of the humus level on all available arable soils by only 1% would offset the entire CO₂ emissions worldwide.



"The green plant is the only living being capable of absorbing CO₂ and converting it into sugar or, subsequently, into organic matter (leaves, fruits, wood, roots). Even man, with all his knowledge and all the technology available, is not able to do this!"

Oekoregion Kraindorf

Project Partner



Finomics AG, www.finomics.ch, is a boutique financial advisory firm based in Zurich and acts as the Fund's investment advisor. Finomics AG also takes on all administrative functions of the Fund, thus enabling all other parties to fully focus on the implementation of the **humusCO₂mp** business model.

Under the leadership of CEO Zülfikâr Güzelgün, Urs Weisstanner and Steffen Aumueller, Finomics AG will act as an interface to the capital markets and take over investor relations. Currently, Finomics AG has a transaction volume of approximately € 1 billion and will receive its asset manager licence from the Swiss regulatory authority FINMA as of Q2/2022.



QAL, www.qal-gmbh.de, is a subsidiary of the Fleischprüfing Bayern e.V. and was established in 1991. As a group of companies, QAL is a leading service provider within the feed, agriculture and food industry in the field of expert services and quality assurance. QAL offers a wide range of services in the form of audits, inspections, certifications and assessments as well as in classification and software. They carry out over 30,000 certifications annually.



The Munich-based Tentamus Group, www.tentamus.de, with its founder and CEO Dr. Jochen Zoller, will take over the objective certification of CO₂ binding in agricultural soil with its worldwide network of test laboratories.

As a technology leader in the life science industry, Tentamus is dedicated to the continuous development and innovation of its analytical methods and equipment. Tentamus' commitment to environmental and ecological progress enables the **humusCO₂mp** Compartment to provide the highest level of quality and test security. Together with QAL, an objective test method for CO₂ measurement in soils is being established.



Enviro Marketing, www.enviro-marketing.com, based in Innsbruck, is Austria's leading agency for sustainable communication and advises international clients on strategic marketing & communication.

Under the direction of Antje Schwemmerberger Swarowski and Stefan Otter, Enviro will take over the marketing and communication of the **humusCO₂mp** Compartment on matters politics, agriculture, industry and end consumers.

