



CARBON BIOTECH GMBH i.G.


What's **Carbon Biotech** about?

Biotech Startup close to Berlin, a spin off from Brandenburg University of Technology (BTU), Germany

Green-Tech process to manufacture **IMPCT protein**, the first Spirulina-based vegan protein with the following USP:

1. Complete vegan protein for human and animal nutrition, the „Best Food For Future“ (WHO)
2. Superior quality validated on human cells at competitive price
3. First colour and taste-optimized Spirulina protein = **Impct protein**
4. Proprietary technology to use atmospheric CO₂ for production leading to a **negative CO2 footprint** anywhere in the world

High Potential for both Revenues & Social-Ecological Impact

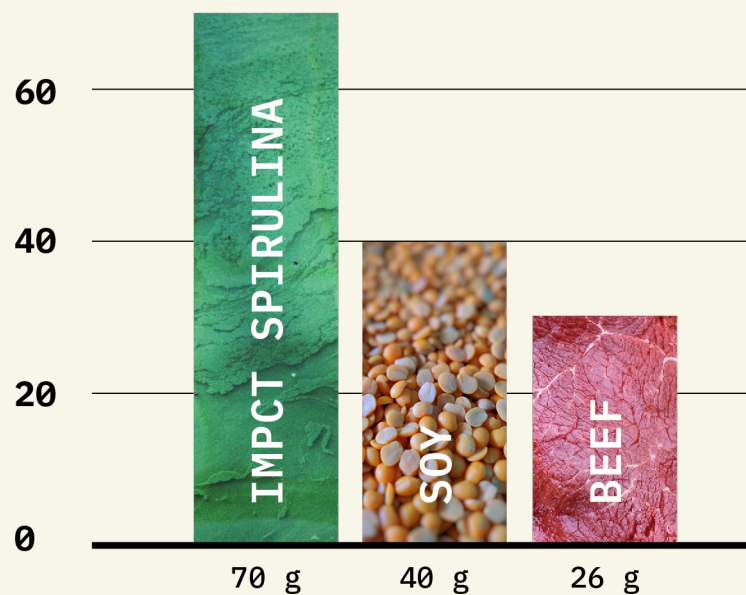
A close-up photograph of a pair of hands cupped together, holding a small amount of bright green liquid. The liquid has a thick, gelatinous texture and is dripping slightly. The background is a dark, textured green surface.

**Spirulina named
best food for future
by the WHO.**

,Impct" is good for people.

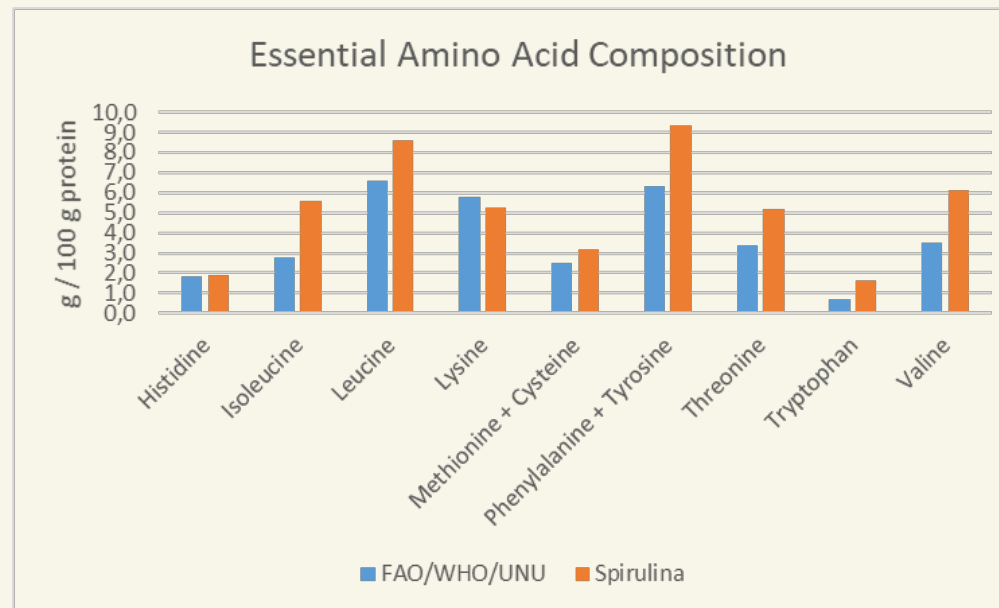
PROTEIN SOURCE

Spirulina has maximum Protein density (per 100 g)



NUTRITION VALUE

Impct is a complete protein, rich of all essential amino acids
(AAs compared to FAO/WHO/UNU reference)



,Impct" is good for the planet.

REQUIRED WATER

Spirulina has minimal water footprint
(water per 1 kg protein in l)



REQUIRED LAND

Minimal arable land required for Spirulina
(land use per 1 kg protein in m²)



EMISSIONS

Spirulina has no greenhouse gas emission levels
(CO₂ emissions per 1 kg protein in kg)



The world's first alternative **protein** that is **complete**

- Enriched
- Colour-neutral
- Taste-neutral
- Universal protein source



Atmospheric CO₂
used for
production

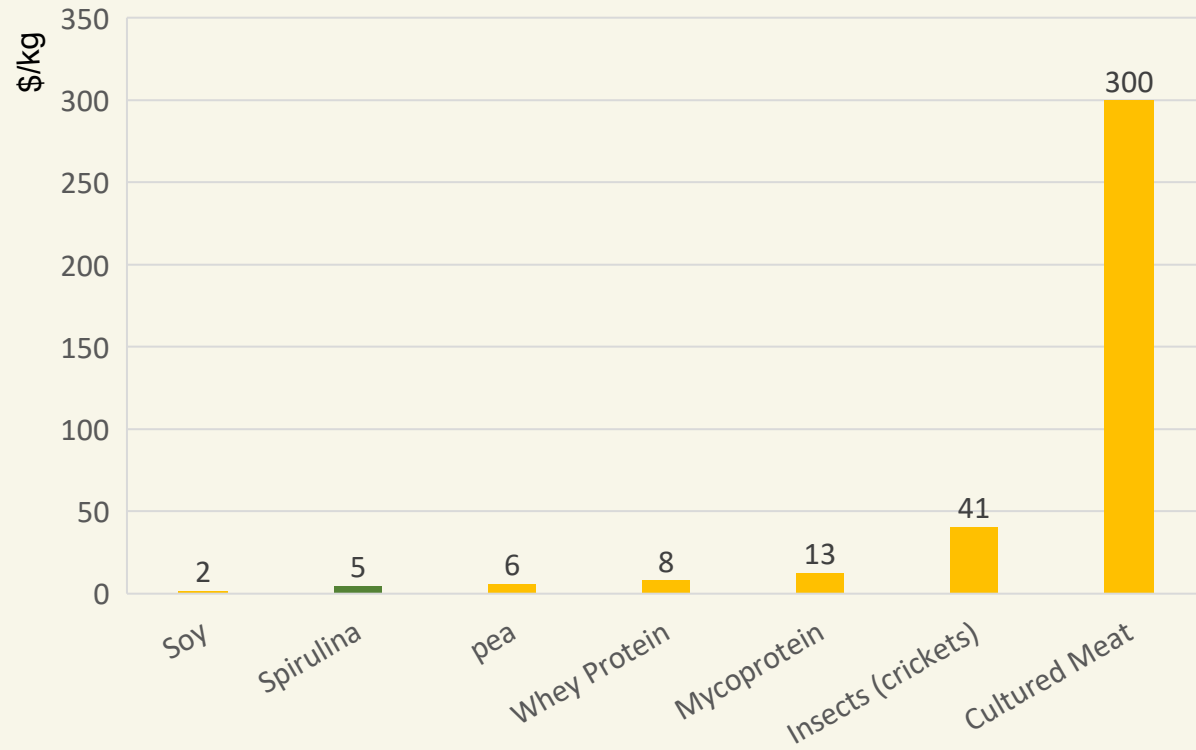


VALIDATED ON
HUMAN CELLS

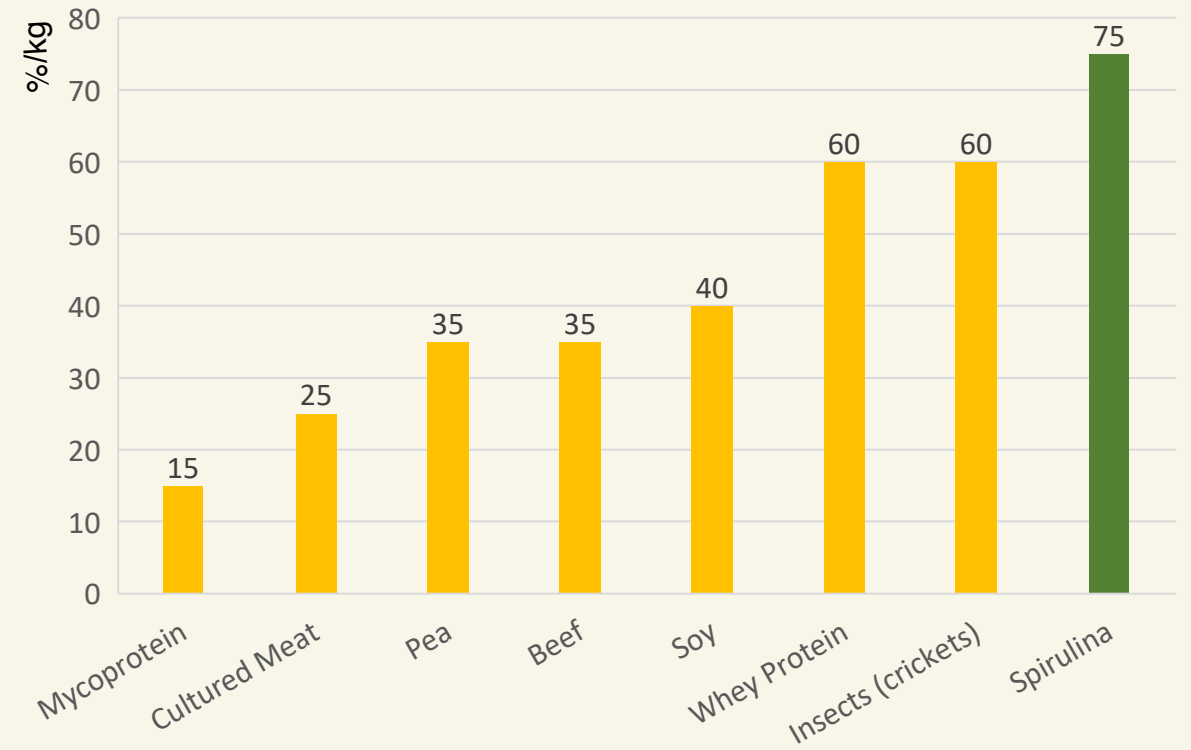


> 70% PROTEIN,
All essential Aas,
VITAMINS, Minerals

Production Costs of Alternative Proteins

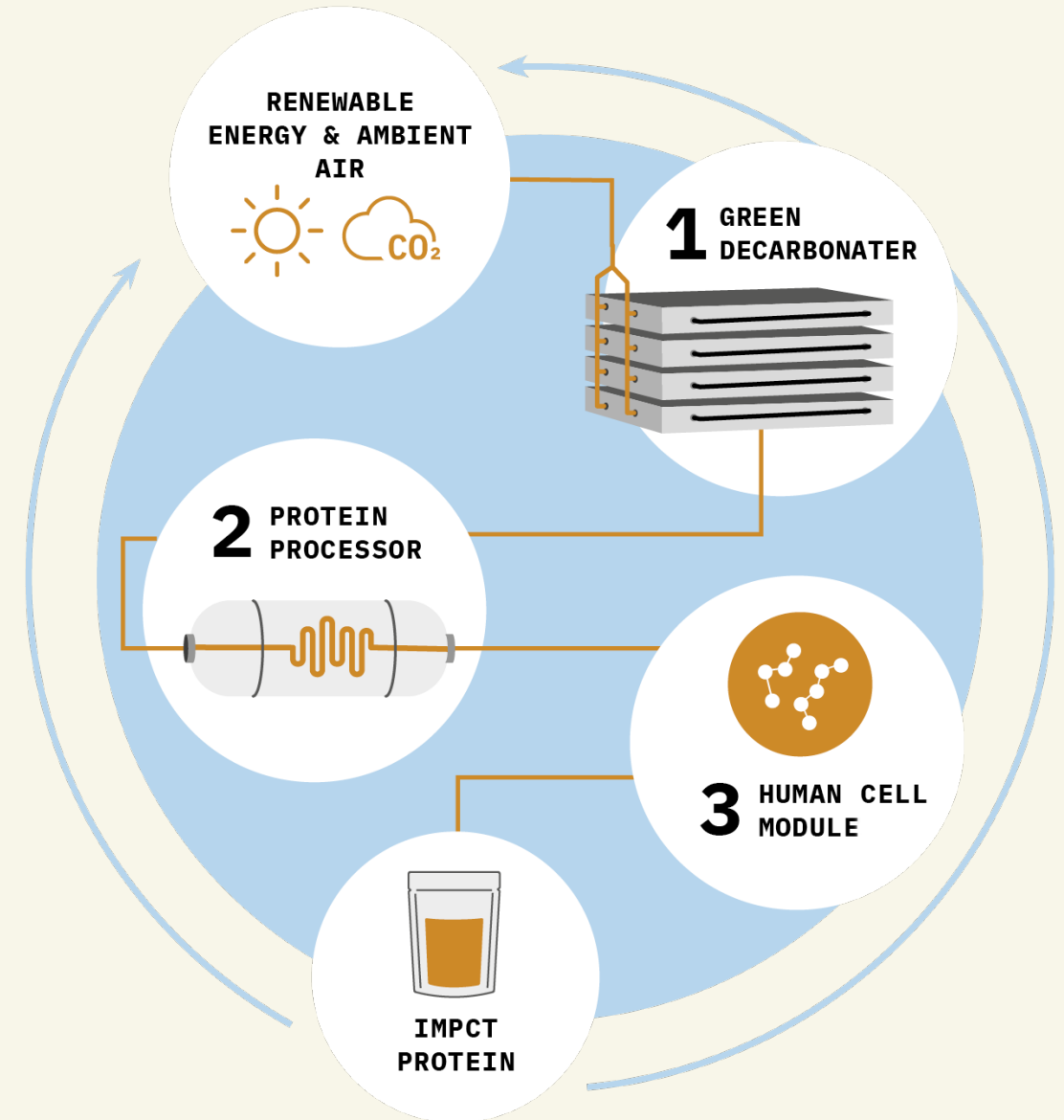


Protein Density

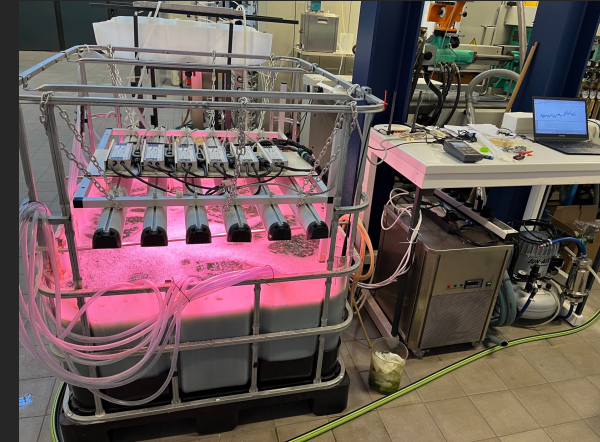
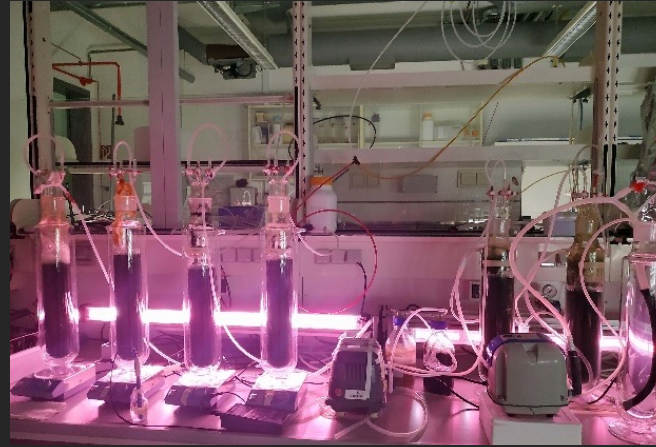
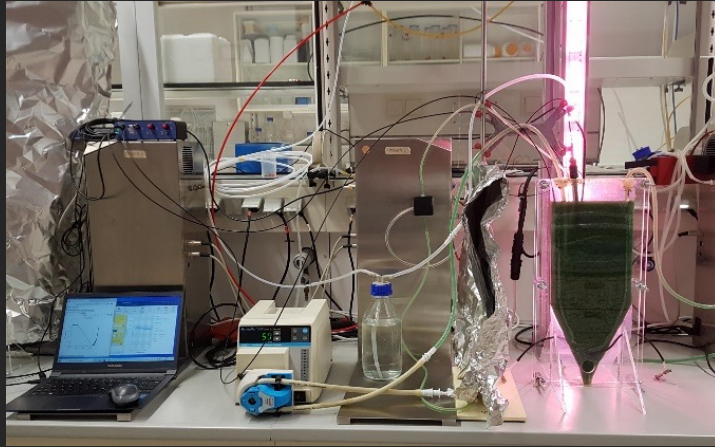


Unique Technology

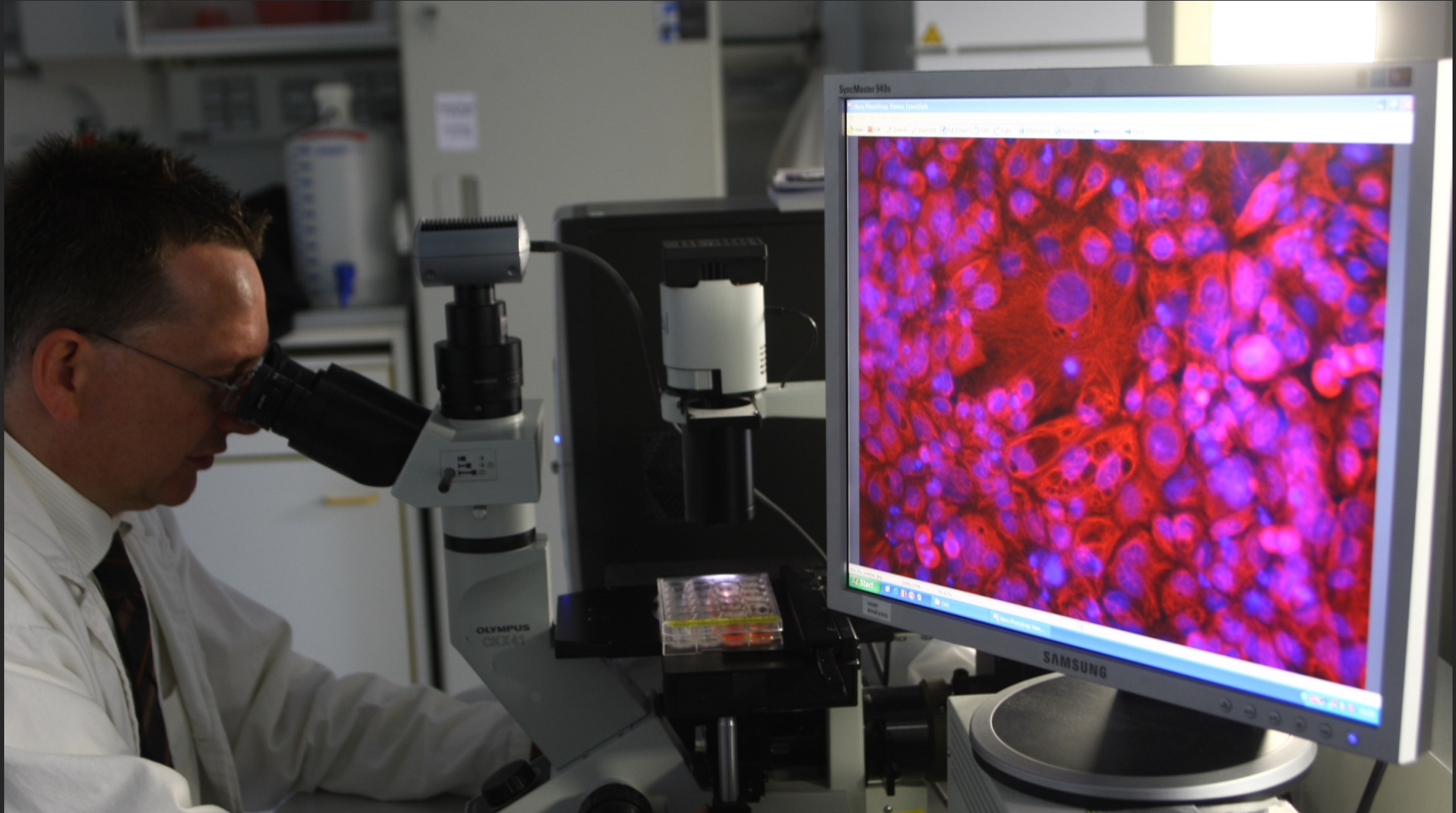
1. Technology for cost-effective and clean production of Spirulina biomass and use of atmospheric CO₂
2. Protein processing to optimize IMPCT protein color, taste & nutrient content for integration into various food products
3. Validation on human cell cultures (colon, blood, liver)



Indoor Bioreactors for Spirulina Research & Production: Lab Scale and Prototype



Human Cell Module



Our vision is to feed the world sustainably

HUGE MARKET POTENTIAL

The world population needs 550 k tons protein per day. This demand could be served with 91 Gigafactories.

Market potential EUR 12.7bn.

Production at competitive costs.

WITH SUPERIOR PRODUCT

Nutritional benefits

First customer feedback extremely positive.

LOI from Unilever & Eckes-Granini.

AND MINIMAL Footprint

In case of Germany, 0.2% of state area sufficient to provide the population with daily protein.

Net negative emissions, no arable land required and environmentally friendly.

Team Members



JAN-HEINER KÜPPER
Founder & CSO



TASSILO KÜPPER
Founder & CEO



Caren Genthner-Kappesz
Company Building &
strategyFINANCIALS



DANIEL SCHRAMM
COO



STEPHANIE HOLZER
CMO

Advisory board

Norbert Schebesta, MBA

Industry advisor. Until his re-tirement, N. Schebesta was CFO of an internationally operating automotive supplier with annual sales of 2 bn EUR and 10.500 employees.

Thomas R. Loster

The geographer and climate expert represented the global reinsurer Munich Re and later Munich Re Foundation in more than 20 world climate summits (COPs). He is lecturing about sustainable solutions for global challenges at a University in Munich.

Prof. Dr. Karl Hermann Steinberg

Industry advisor concerning large-scale microalgae production. Prof. Steinberg was research director of Preussag AG and later on established the microalgae farm Kloetze, at this time the largest commercial in Europe.

Uli Bunk

As a member of the Executive Board of Eckes & Granini AG, he was responsible for the supply chain as well as human resources and organizational development. His holistic sustainability strategy contributed to the business success even in difficult times. Uli Bunk now has 32 years of experience in international business and organizational responsibility.

Erwin Feldhaus

Erwin is an entrepreneur, investor, networker, non-executive, and coach with extensive international, cross-industry experience in different phases of the company life cycle. His mission is to achieve sustainable, positive results through innovation and a high degree of empathy.

Scientific Advisory board

Prof. Dr. Friedrich Jung

Scientific advisor concerning Spirulina bioeffects in human cells. Prof. Jung is a leading expert in the field of Biomaterial's hemocompatibility with more than 600 peer-reviewed publications in scientific journals.

Dr. Martha Kandawa Schulz

Political and scientific networker in regard to the development of microalgae production in Southern Africa. Since many years, Dr. Kandawa-Schulz has leading academic positions at the University of Namibia, Faculty of Science.

Prof. Dr. Dr. hc. mult. Hans-Joachim Schellnhuber

Founder and Director Emeritus of the renowned Potsdam Institute for Climate Impact Research (PIK). Schellnhuber is a highly-cited researcher (Clarivate) and published some 300 scientific articles & books in fundamental physics, complex systems analysis, climate-change research, sustainability science, and other fields. As member and author of the IPCC, member and chairman of the German Advisory Council on Global Change (WBGU) and Scientific Chief Advisor of former Chancellor Angela Merkel with respect to climatology, he made a strong impact on climate politics and sustainability until today.



Join our journey for a better future.

Interested to find out more about
this opportunity and see the full
business plan for an initial financing?

Please reach out to:

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