



ROTTAL
HANF®

100% Nutzung der Pflanze

We connect Agriculture **and** Industry

Ceresana – FoB / Biobuildings – 10.12.2025

New scalable solutions from industrial hemp – sustainable and versatile applications

- Overview about Rottal Hanf
- Products and processes
- Future Outlook

Who we are

Team, Purpose, Focus

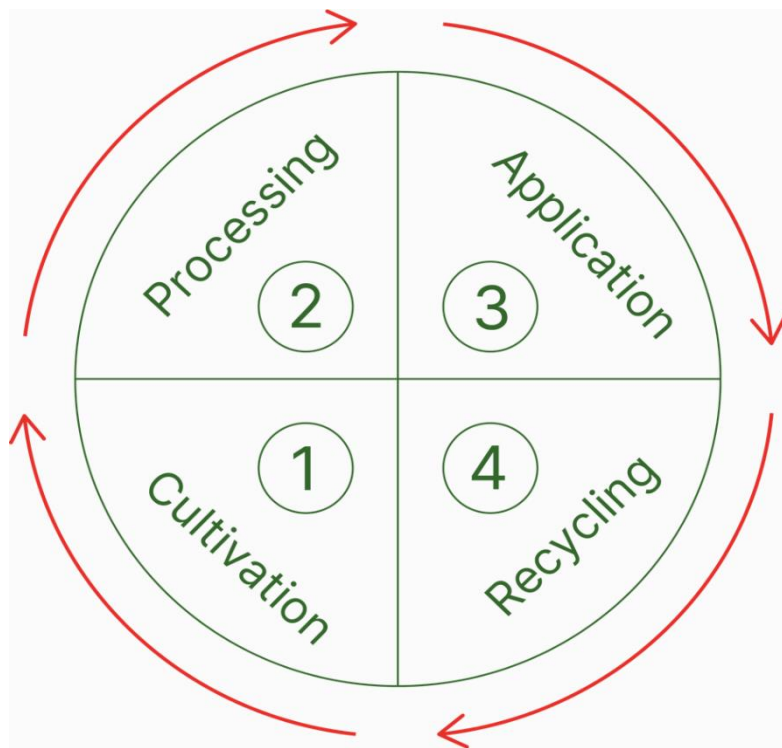


- Founded in 2022, working in this field since 2019
- Located in Bavaria, Close to the border to Austria
- 5 Team Members
- Focus on B2B
- 80km radius – Contract farming
- 100% Usage of the Plant
 - Seeds
 - Straw
- Focus on hemp straw



Our Mission

Agriculture and Industry



Core principle

Advancing the bioeconomy

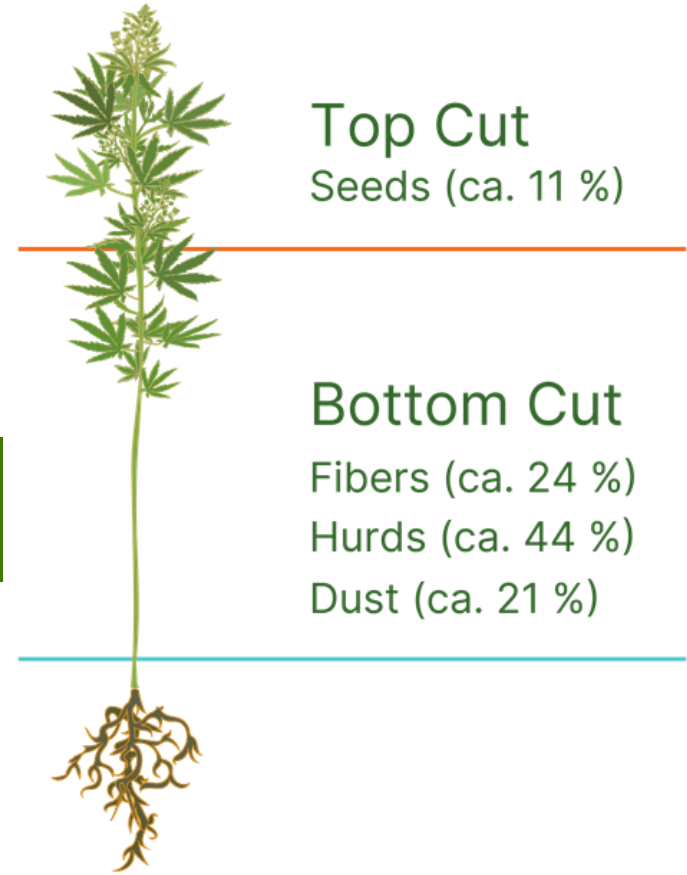


Production of bio-based semi-finished products

Development of circular end products

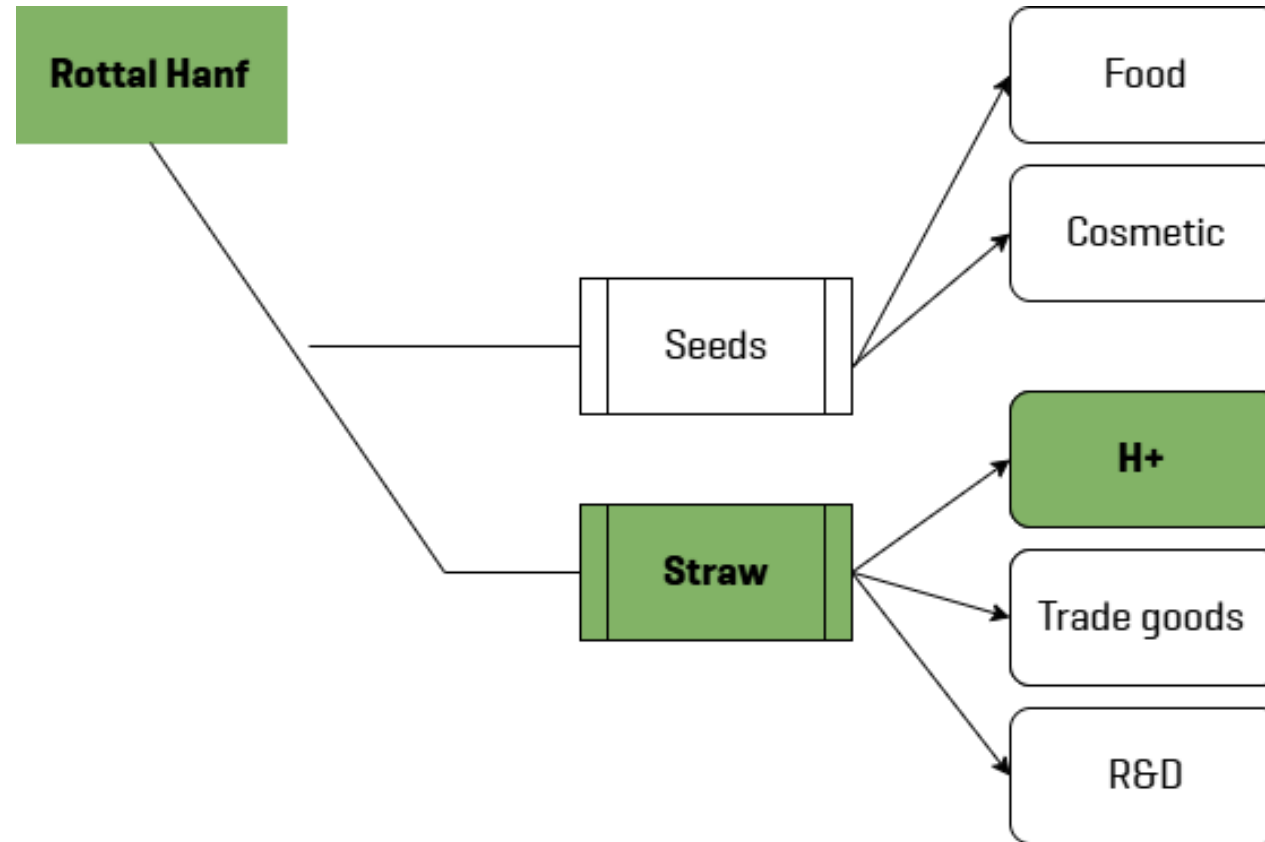
Integration of industrial hemp into crop rotation

Petrochemical products are coming to the end of their era. We see the future in industrial hemp. With it, we are realizing a regional, bio-based circular economy.



Rottal Hanf at a Glance

Overview & Focus



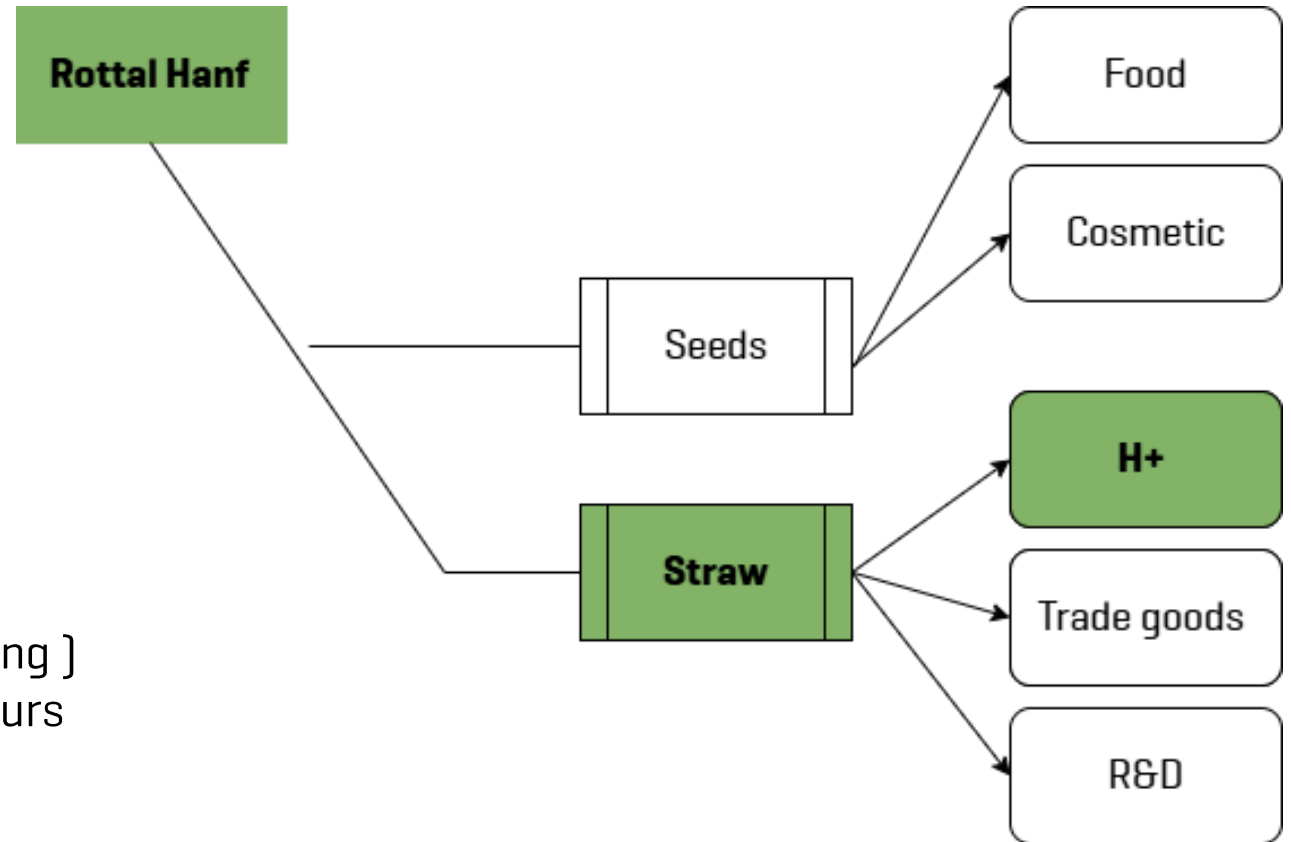
Rottal Hanf at a Glance

Overview & Focus



H+® Process:

- 2-stage processing method
 - H+ Basis
 - H+ Halbzeug (semi-finished Good)
- Low investment compared to conventional Decortication Solutions
- Less cultivation land for regional concepts necessary
- Solution that can be integrated into existing facilities
- Reduction of quality influences[e.g. Straw retting]
- Usage of residual materials from regional acteurs [e.g. wood, brick, etc.] in value creation



Product

H+[®] Basis

The fibers and shives of the industrial hemp plant are processed in a defined mixing ratio to form the H+ basis.

The shortened and opened material is easy to compact, transport, and dose.

The H+ base can be used in the following applications:



Product

H+[®] Basis



Filling and reinforcing material

As an additive for bioplastics, the H+ basis can be cut to specific lengths, dedusted, and mixed.

Without any treatment, usage as a building material for an loose bulk material.



Product

H+[®] Halbzeug

The semi-finished product is processed purely mechanically. The fibrillation of the fibers causes a self-binding property in the final applications. This allows the products to be designed to be recyclable, as they do not require any additional binding agents.

The versatile application and shaping options [e.g., 3D shapes] allow us to respond to our customers' needs.



Technical advantages

H+[®] Board

H+[®] semi-finished products provide a diffusion-open basis that ensures a healthy and natural environment.

Due to the low density of the mono-material [0.35 g/cm³], the products are also suitable for various lightweight construction applications.

Flexible adaptation to product requirements through functionalization



ROTTAL
HANF[®]



Sustainability

H+[®] Board

Construction applications

For example: plaster base panel, Acoustic panel, etc.

In combination with additives such as lime, brick dust, clay powder, or other ceramic residues, a building board can be manufactured that does not require any additional binding agents.



ROTTAL
HANF[®]



Rottal Hanf

products from Hemp Straw



Shives



Technical fibre(VF)



Short fibre (KF)



Super Short fibre (SKF)



Stopfhanf (ST50)



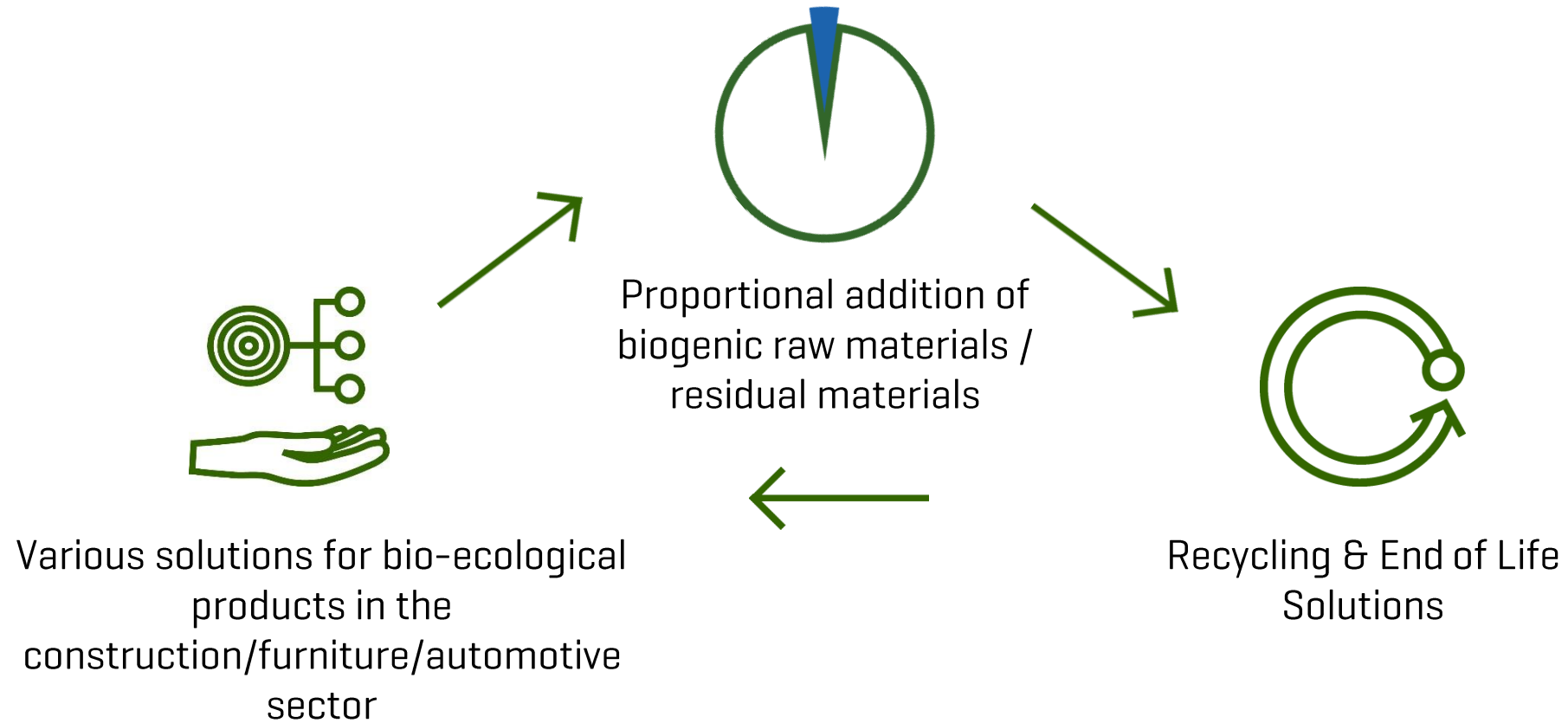
H+[®] Basis



H+[®] Halbzeug

Rottal Hanf

Strategy / Usability



Our Solutions

From field to product



Production of bio-based semi-finished products for the processing industry.



Development and implementation with partners of closed-loop products.



Decentralized, integral overall concept - regional, versatile, scalable.



Our vision for the future

scalable decentralized concept

Flexibility in applications

Increased added value through the use of residue materials

Integration of industrial hemp into crop rotation



ROTTAL
HANF®

