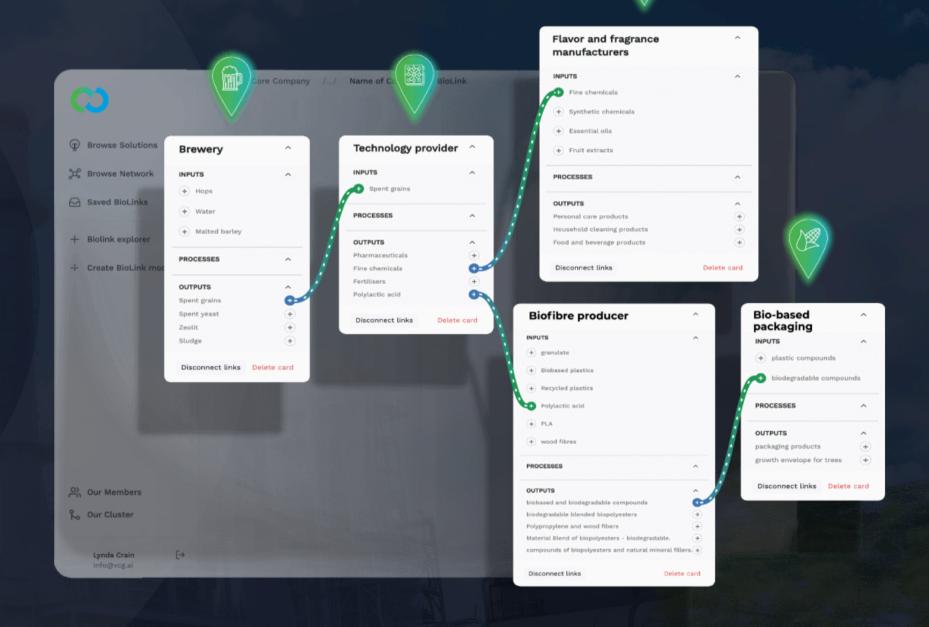


VALUE CHAIN GENERATOR®

Turning by-products & waste into valuable materials across supply chains and regions





An opportunity: Wasted

Today over

85%

of organic by-products and waste fail to reach their full potential in creating high-value products!

45 Billion €
cost of waste
for the EU agri-food
industry every year



EC, 2023





Regulations & markets are driving an industry-wide change in how we use and choose materials



Push: Regulations for higher valorisation of waste & industrial decarbonisation



Pull: 2.6 Trillion EUR global market for circular bio-based products*



To reach Net Zero climate goals, we must reduce the climate impact of the industry, through



REGIONAL SOLUTIONS

tailored to the regionspecific industrial ecosystem and material flows



TECH INNOVATIONS

to enable the circular business models & industrial decarbonisation



Value Chain Generator®

Advanced data analytics to find & develop opportunities for turning by-products & waste into sustainable resources.



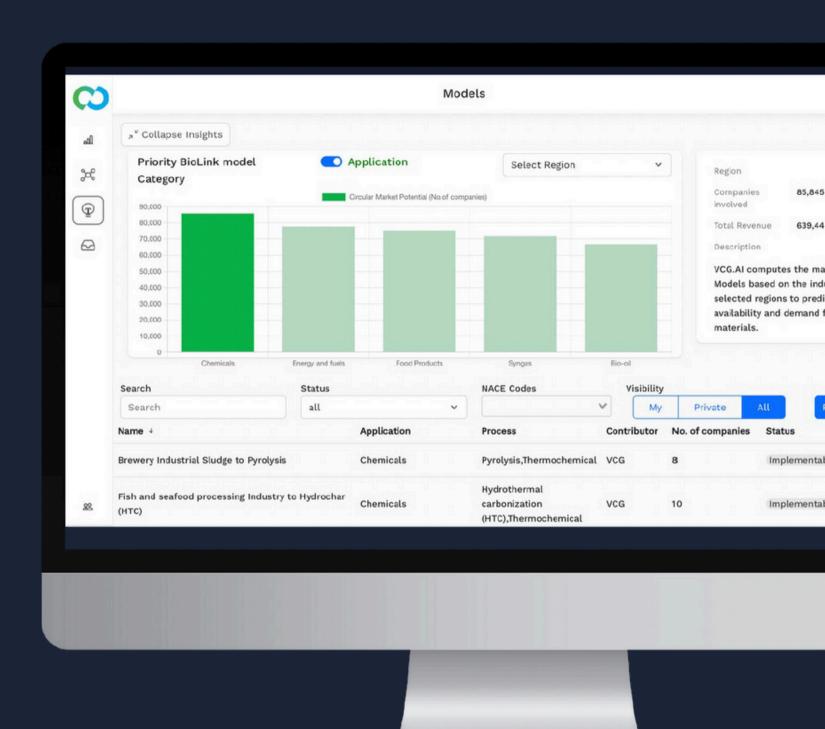
Reduce CO2e footprint



Reduce material & water waste

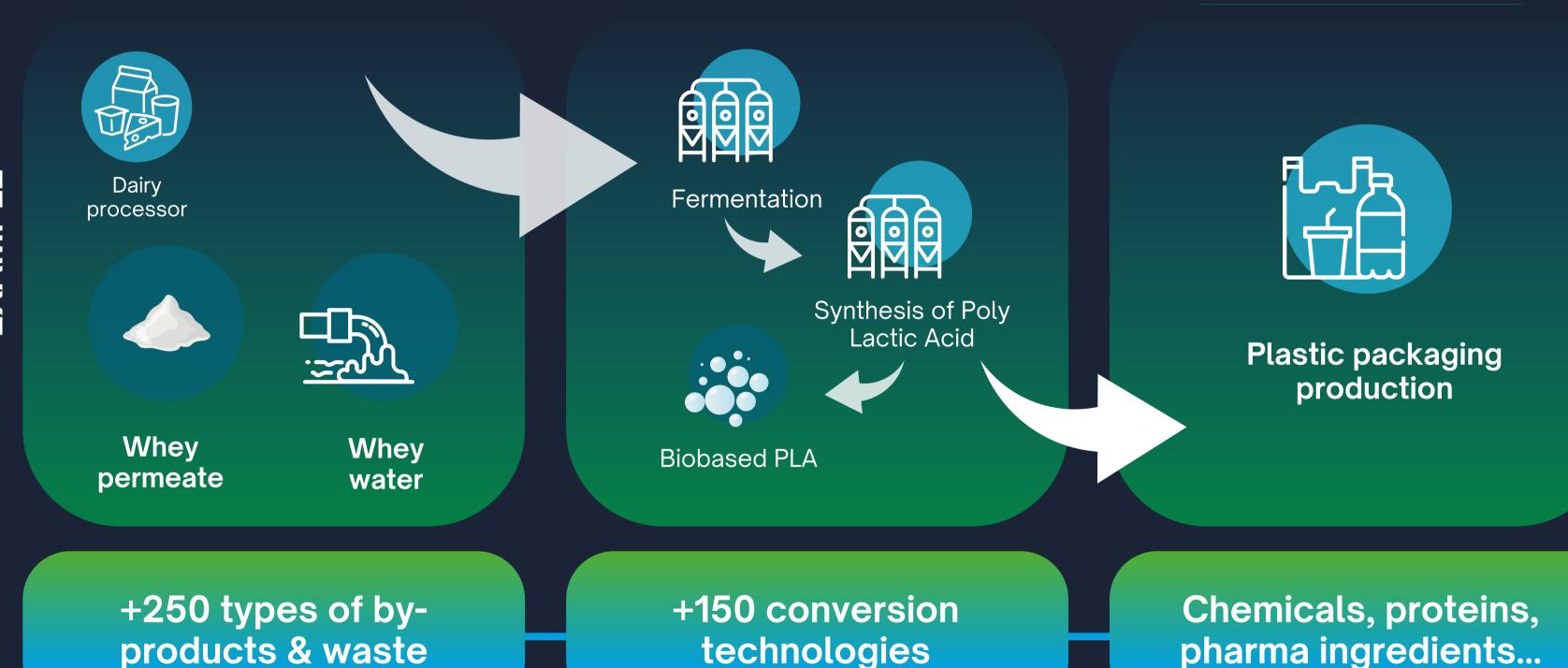


Improve profitability



pharma ingredients...

BioLink® Algorithm



technologies



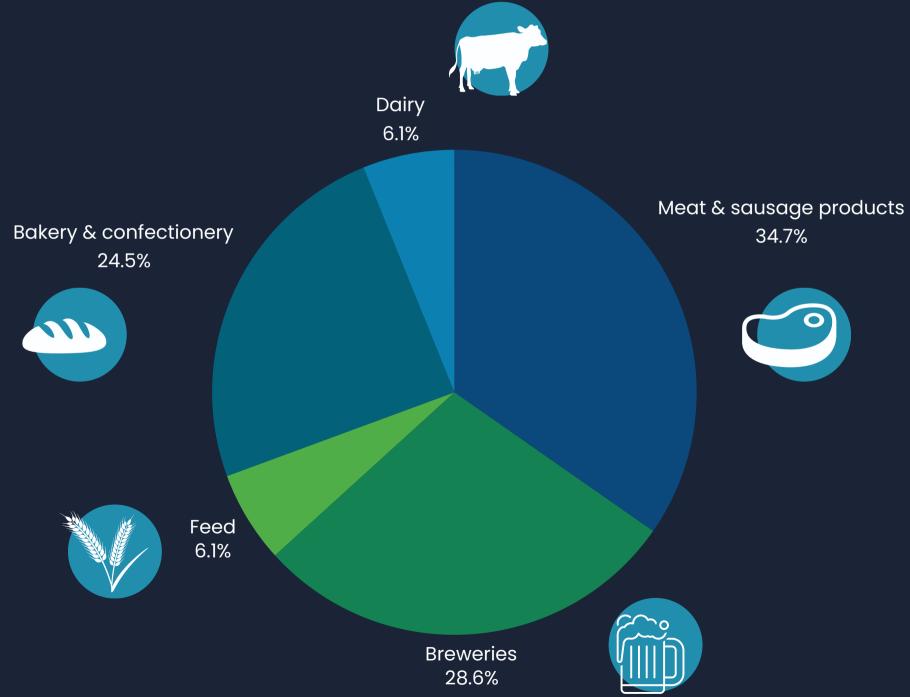
CASE STUDY: UPPER AUSTRIA REGION

How Value Chain Generator supported Upper Austria to advance circular bioeconomy in the region



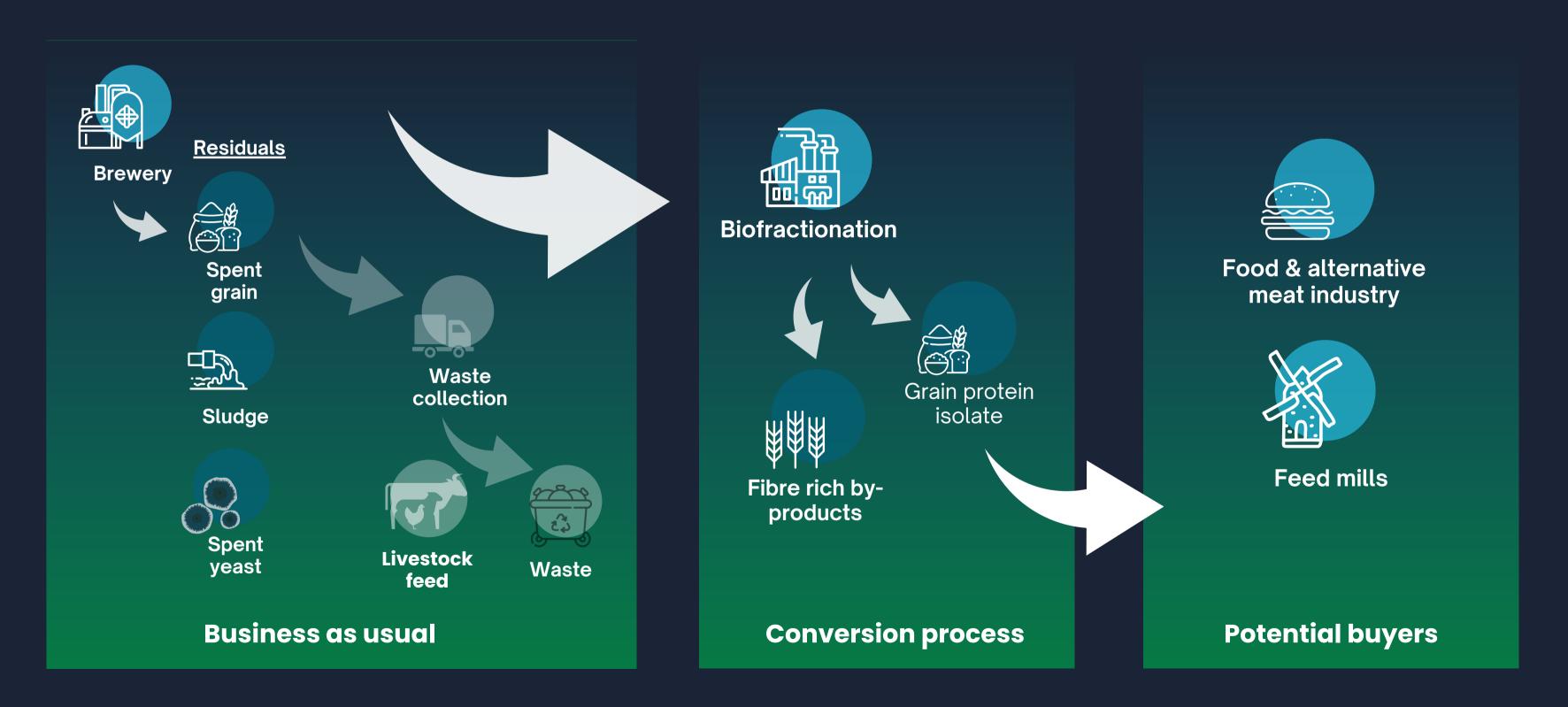
High-priority industries and residuals in the region





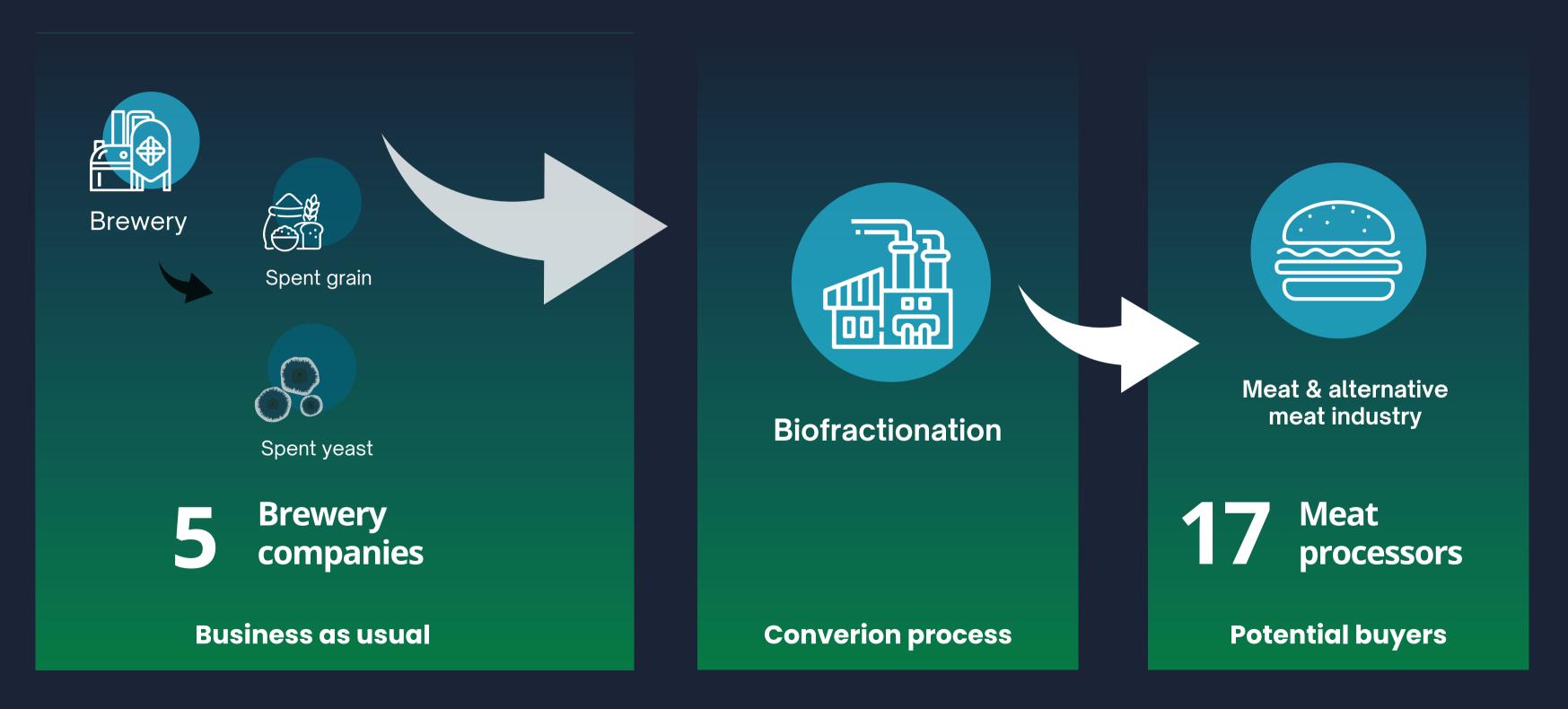


Brewery residuals to produce high value proteins and fibers





Matching of regional companies





Addresing the gap in the BioLink

The region is **missing the technology providers** for the production of protein isolates. The right technology providers can be found in the VCG network.













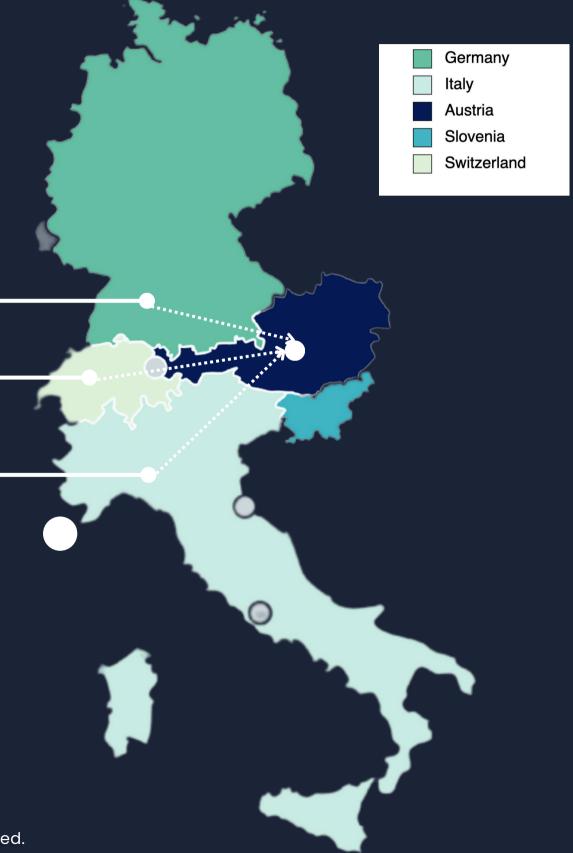






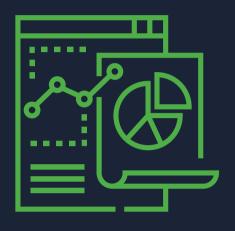








The Value Chain Generator approach



ANALYSE

all the companies operating in the region



DETECT

by-products & waste streams generated by the companies



PRIORITISE

the circular solutions by their market potential and climate impact



MATCHMAKE

the right supply chain & technology partners for implementation

1

2

3

4



Analytics of regional companies & material flows

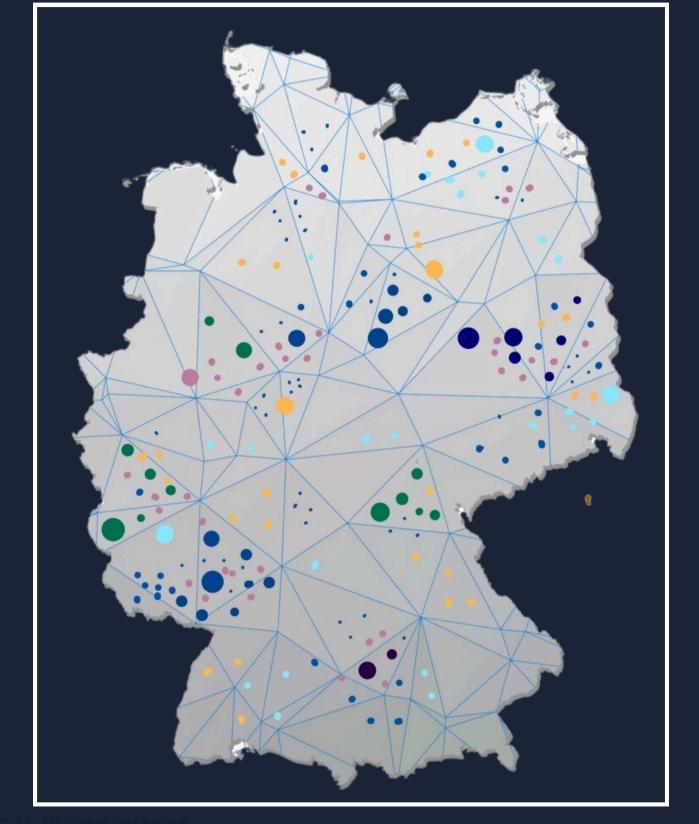


Available by-products & waste streams + suppliers



Potential buyers of various new circular products



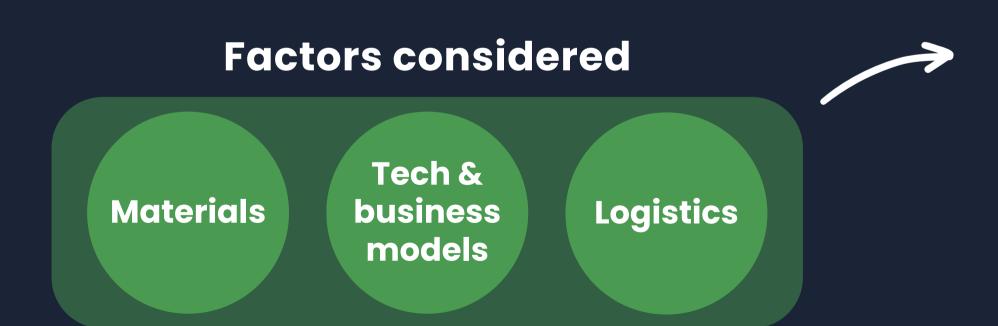


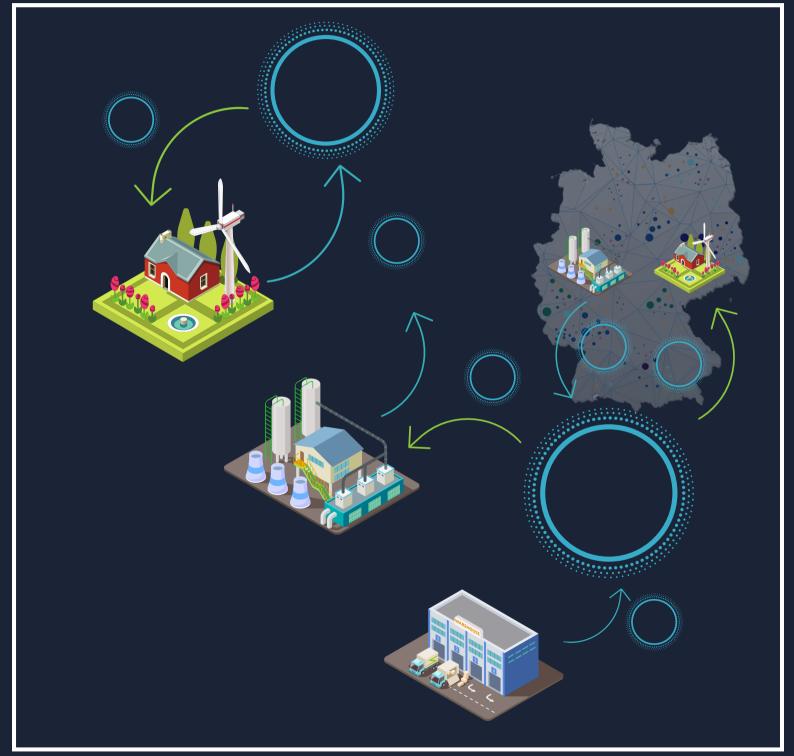


BioLink® to find circular business opportunties

BioLink matches residuals with conversion technologies and demand for circular materials.

It finds the optimal way to valorise every residual and alternative circular materials for every production input.







Confirm the opportunties before making further investments

To de-risk further investments, BioLink Al allows us to evaluate the techno-economics & climate impacts of each circular opportunity.

+100,000 documents
Science, technology, business models
& climate impacts





Matchmake to develop chosen circular opportunities

Matchmake the right regional companies to develop the supply chains.

- Supply of residuals
- Demand for the new circular resources.





International deployments in 2024

13 Countries

35 Regions







Advanced data insights for regions to decarbonize through profitable circular value chains

Contact Us

VCG.AI GmbH Seyffer Strasse 34 70197 Stuttgart Germany www.vcg.ai

Jon Goriup Dermastia CEO VCG.AI jon@vcg.ai