

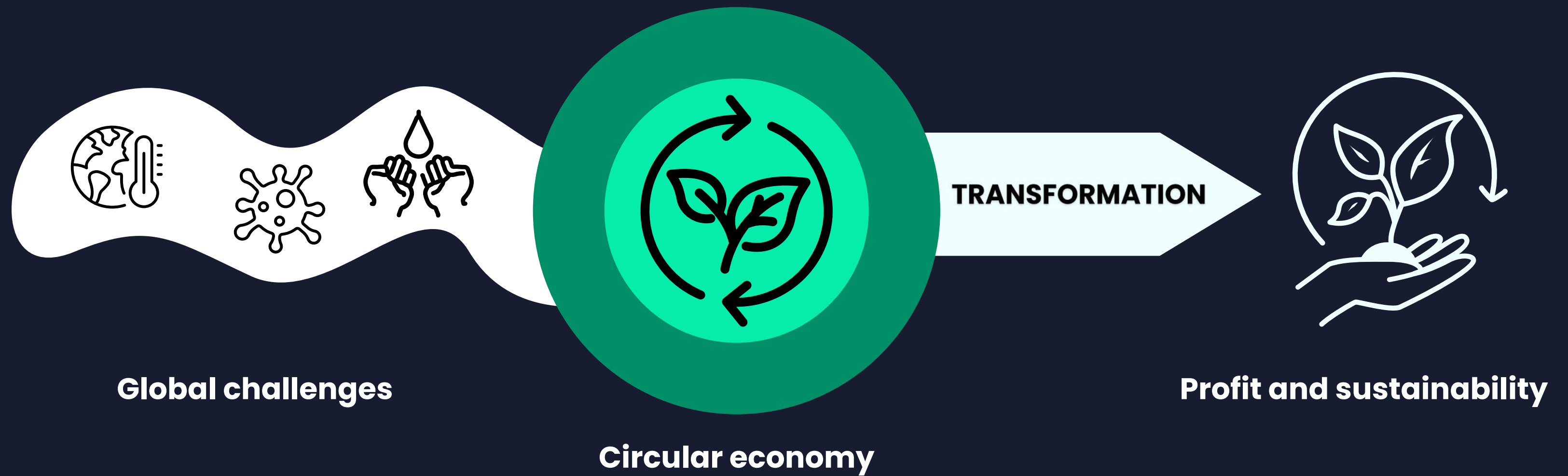


Insights for regions to decarbonize and grow through circular value chains



trusted by:





CIRCULAR ECONOMY HAS THE POTENTIAL TO GENERATE 4.5 TRILLION OF ADDITIONAL ECONOMIC OUTPUT BY 2030 WHILST DECOUPLING ECONOMIC GROWTH AND NATURAL RESOURCE CONSUMPTION.

Lacy and Rutqvist, 2015

Value Chain Generator[®] (VCG)

Unlocking Circular Opportunities Using Data

Value Chain Generator is a digital data platform that leverages advanced data analytics to find, validate, and develop circular industry business models and value chains.



Reduced CO2 footprint



Reduced waste & better utilisation



Reduced water use & waste

+3.5 Million

Companies in the database

+400

Circular value chain solutions

8 Countries and expanding

- Germany
- France
- Austria
- Switzerland
- Slovenia
- Italy
- Serbia
- Croatia

Value Chain Generator Implementation Journey



DATA

location-based analysis of companies & material streams all in one platform

Regional Industry Data Centralization



DISCOVER

new circular bioeconomy value chain models for the regional industries with most potential

Value Chain Generator's Analysis



EVALUATE

key regional opportunities for circular development with the market and climate impact evaluation



VCG LICENSE

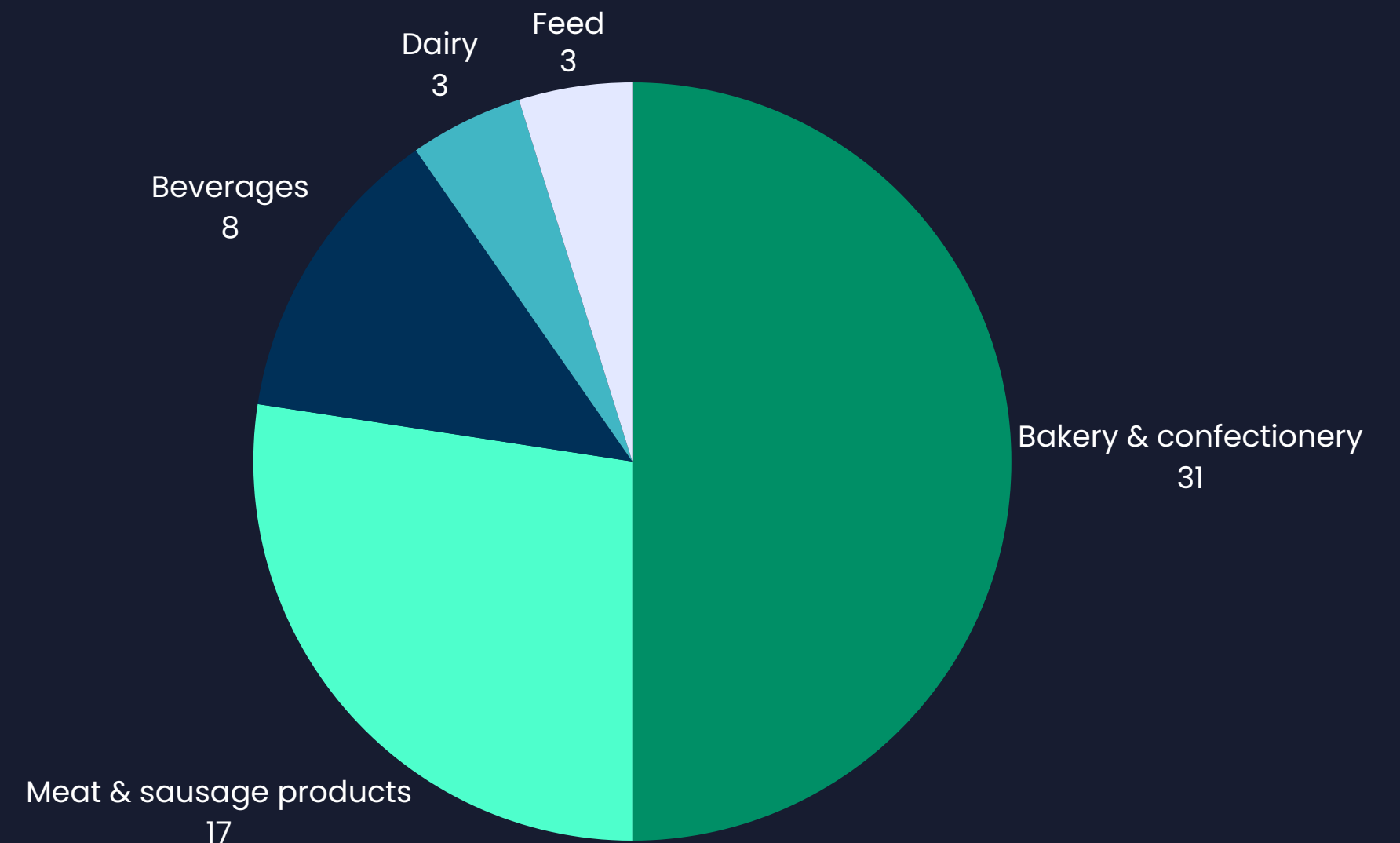
onboarding & full access to the VCG platform for further in-depth research, action plans, and engagement with industry

Custom Circular Research & Models

Data Analysis of Regional Industries & Production Processes

Deliverables

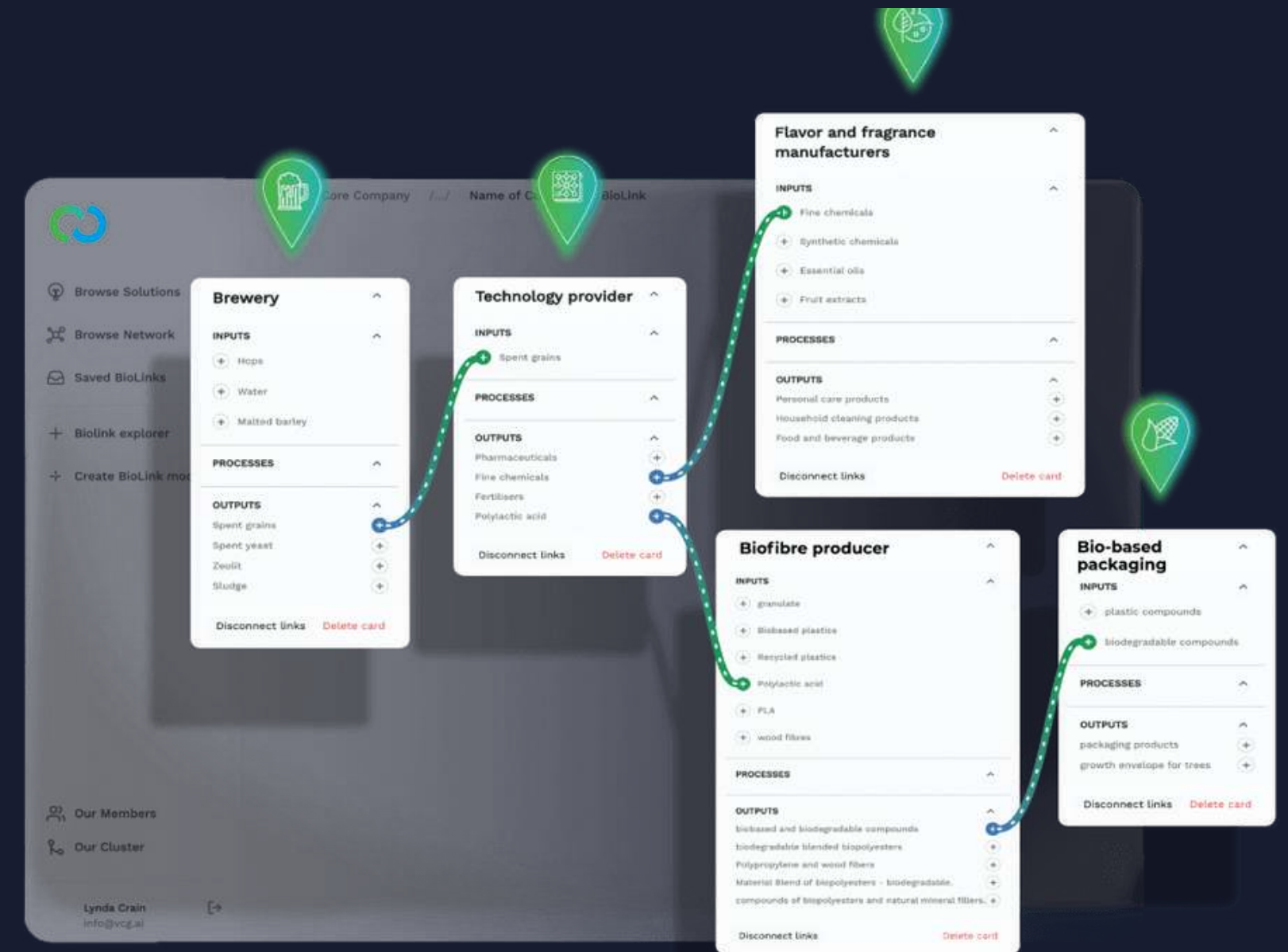
- Industry data for the region/country
- The three most economically relevant sectors with residuals for circular transformation in the region
- List of companies, technologies, and processes available in one centralized platform



Discover and Evaluate Regional Opportunities For Better Resource Utilization

Deliverables

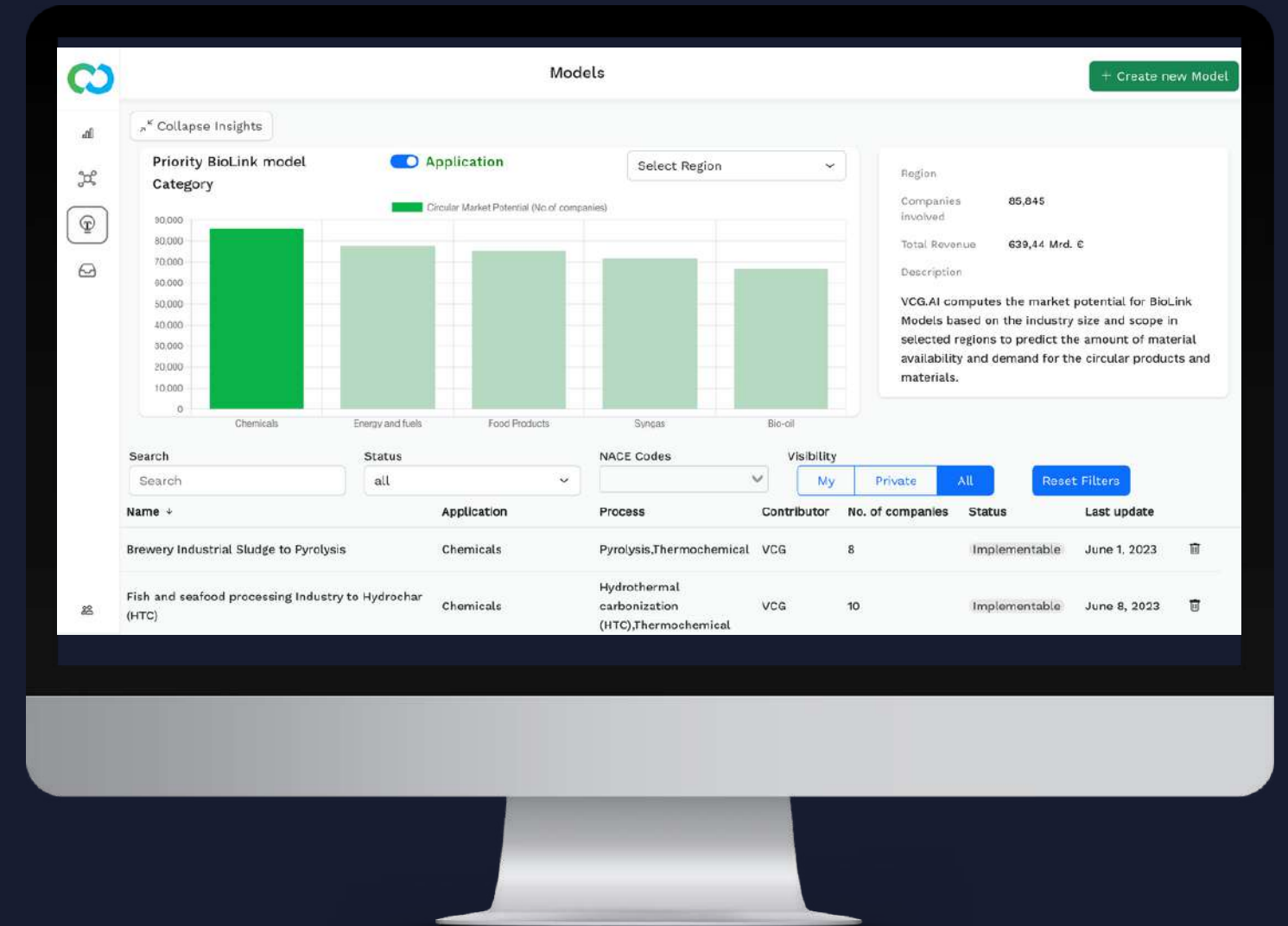
- Circular Industry Portfolio defining priority circular value chains for the 3 most relevant industries
- Workshop to prioritise solutions
- List of suitable companies to deploy new circular value chains



Optional: **Value Chain Generator License** for further in-depth analysis and action plans development

Deliverables

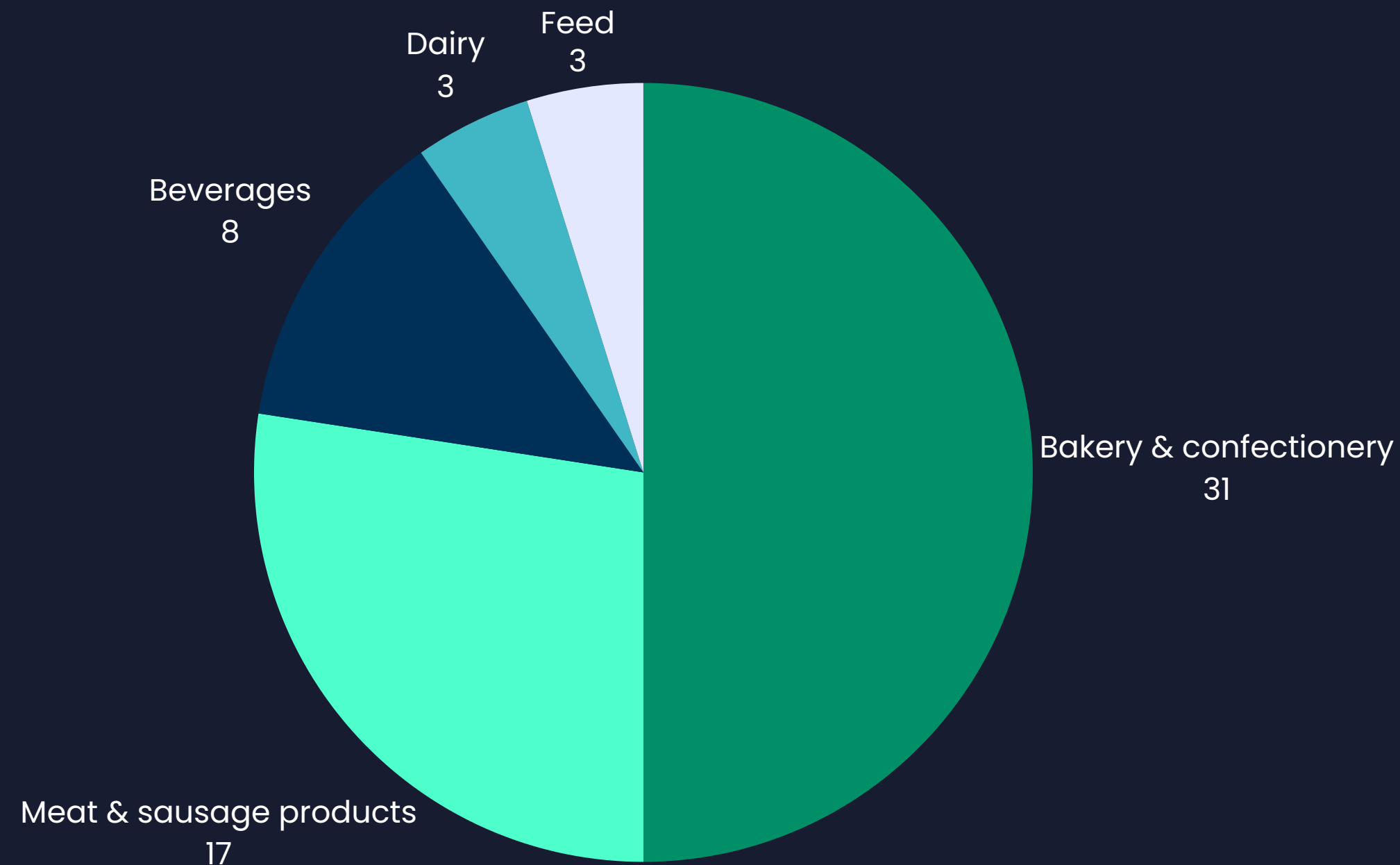
- Full user access for unlimited value chains modeling and in-depth analysis
- Access to VCG's international technology and applied research partners network
- Ongoing data maintenance & technical support



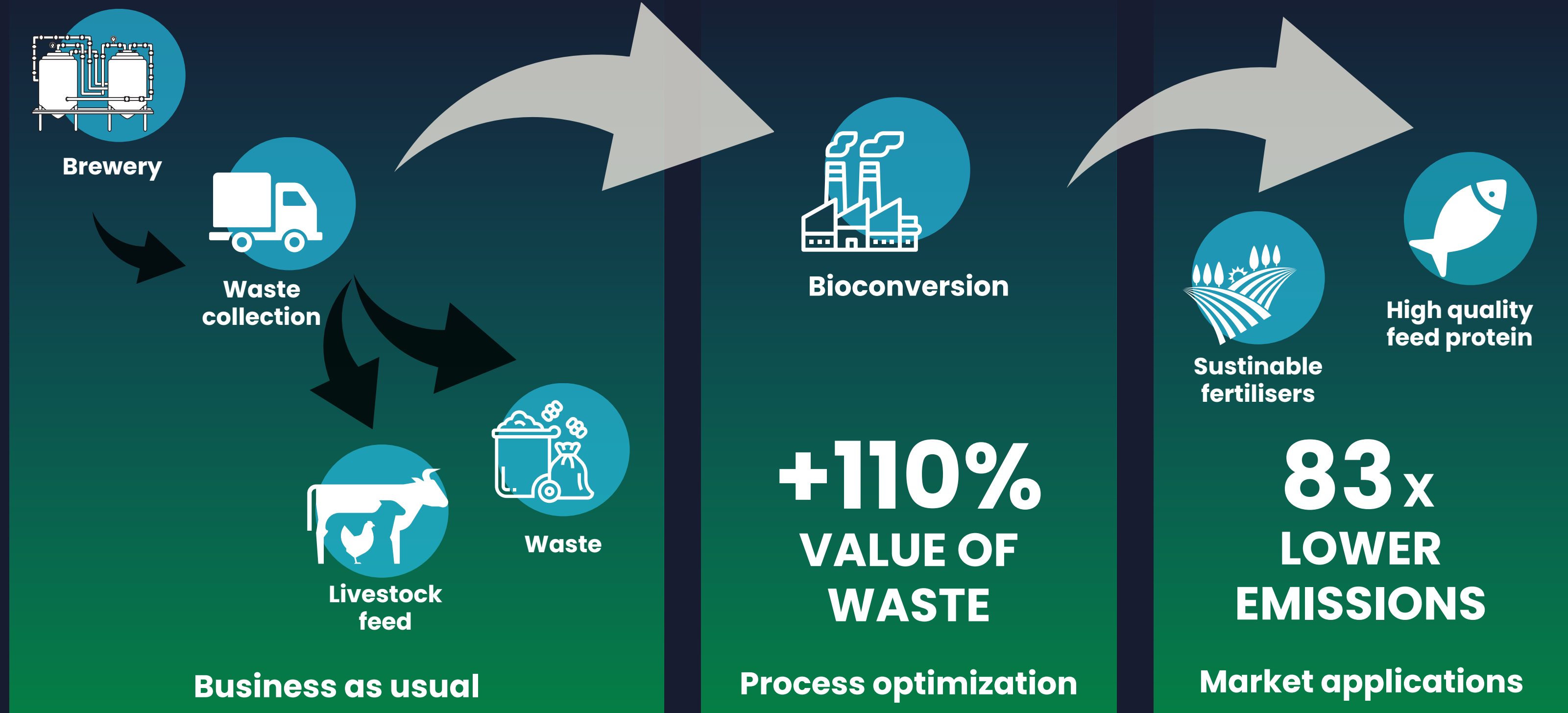
CASE STUDY: UPPER AUSTRIA REGION

How Value Chain Generator helped Upper Austrian Cluster to advance circular bioeconomy in the region

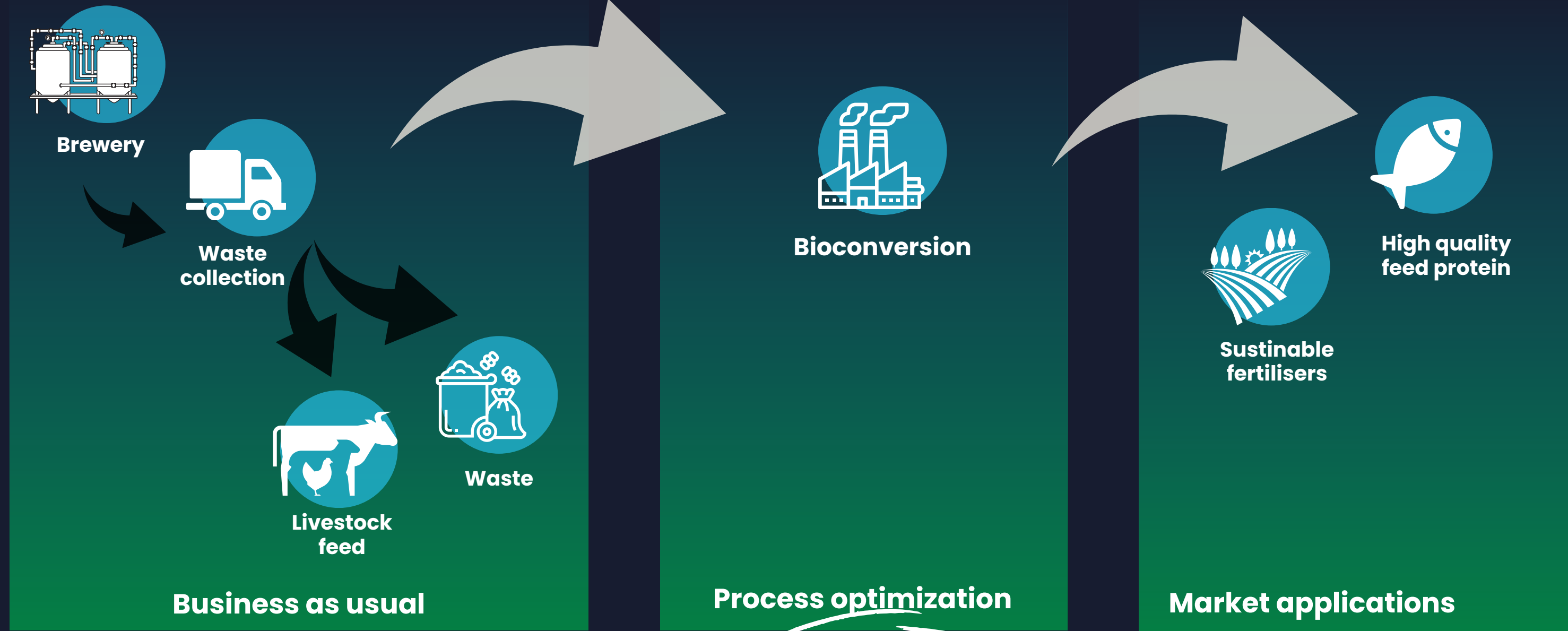
Data Analytics: Biggest industries in the Upper Austria region with the circular bioeconomy potential



Discover and Evaluate: Austrian brewery residuals to produce alternative high value feed protein and fertilisers



Discover and Evaluate: Availability of companies in the region



5 Beverage companies

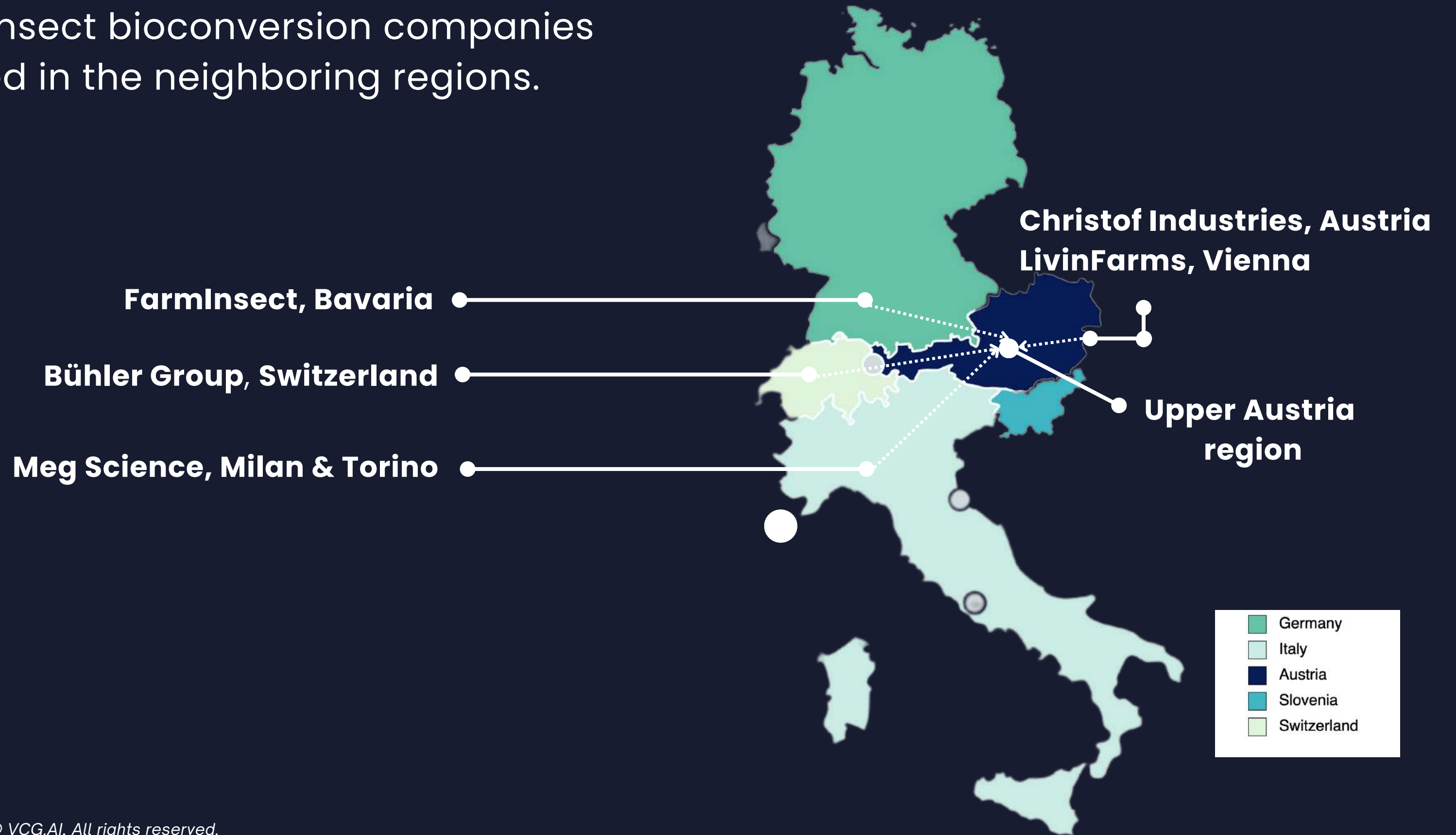
0 Technology providers

17 Meat & sausages producers

A CLEAR GAP IDENTIFIED

Discover and Evaluate: Inter-regional potentials

The missing insect bioconversion companies were identified in the neighboring regions.



Regions Working With Value Chain Generator



BUSINESS UPPER AUSTRIA



CHEMIE CLUSTER BAYERN



LOMBARDY GREEN CHEMISTRY CLUSTER



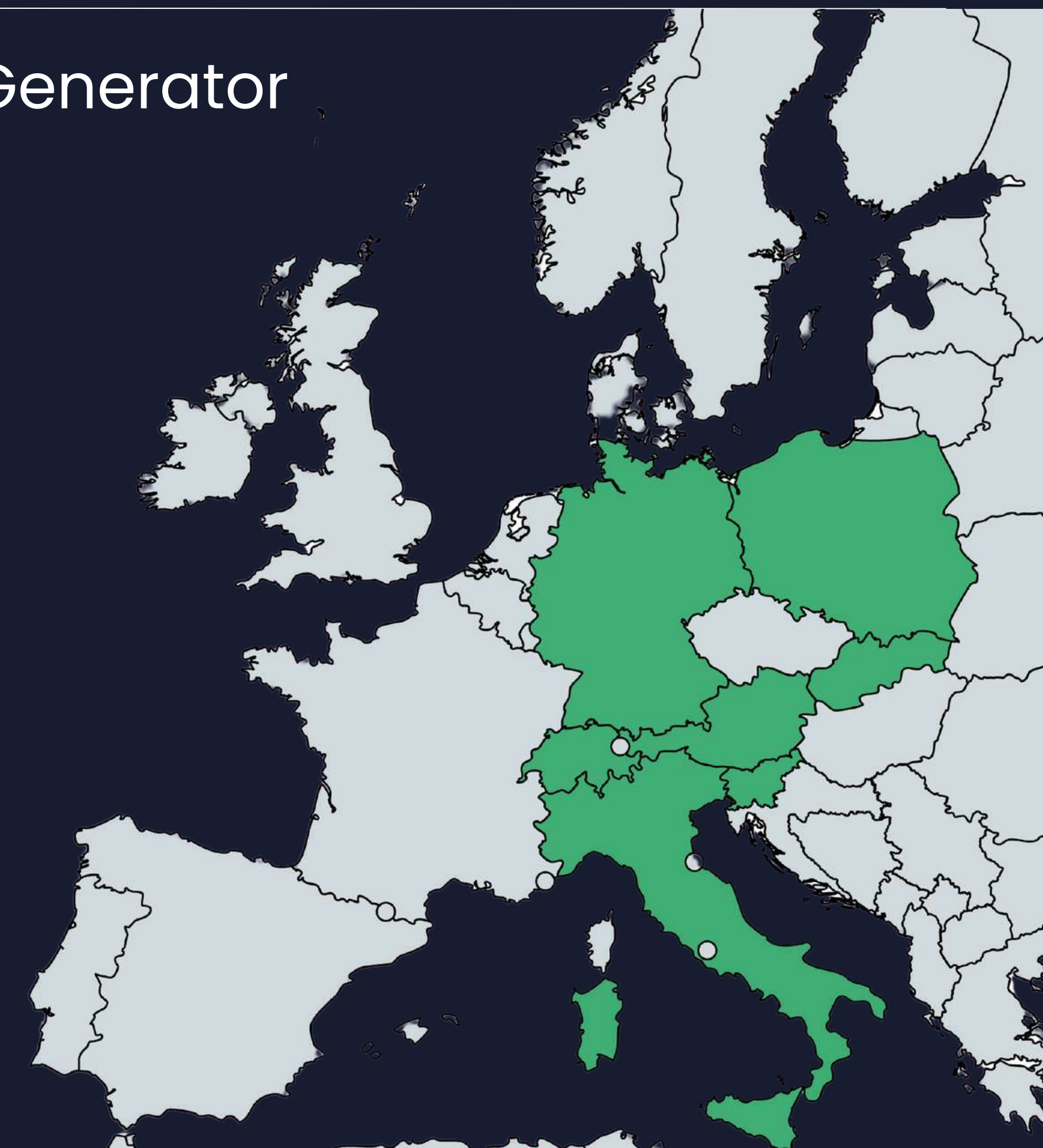
ECONOMIC DEVELOPMENT AGENCY HEILBRONN REGION



DEPARTMENT OF ECONOMIC DEVELOPMENT KUYAVIAN-POMERANIAN VOIVODESHIP



VENETO AGRICOLTORA



Opinions About the Value Chain Generator

“Value Chain Generator offers an effective method for accelerating the circular transition in countries and regions.

It makes it easy to quickly identify new business opportunities and partnerships between businesses. BioLink, a smart algorithm matches by-products first to the most suitable technologies for their value-adding transformation into new raw materials and then to the buying industries for these secondary materials. The most progressive regions in Europe are integrating local industries through technology to grow their economy while reducing their carbon and waste footprints.”

Dr. Chris Patermann
“Father of the European Bioeconomy”

“The Value Chain Generator helps us take a more effective approach to achieving our climate-neutrality goals.

We discovered new possibilities and industry links that we hadn't considered before. For instance, we explored how the regional automotive industry fits into the circular biomaterial value chains. The clear visualization of the value chains makes it easier to prioritize and develop new projects.”



Dr. Patrick Dufour
Wirtschaftsförderung Raum Heilbronn GmbH

Project Delivery

Key Benefits

- 3 regional industry circular priorities
- Most relevant circular value chains for each of them
- Lists of individual companies & gaps for value chains implementation

Timeline

Data Integration – week 2
Report & Workshop Delivery – week 6
Full VCG License – from week 6 onwards

Next Steps

Define the scope to prepare a personalized proposal.



Actionable data-driven circular value chains
for profitable decarbonization of the industry

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