vcg.ai®
VALUE CHAIN GENERATOR

high five

VCG.AI

AI-powered development of profitable circular bioeconomy business models and value chains

European eic INNOVATION Council
Game Changing Deep-Tech Disruption

CYBER ONE
DER HIGHTECH AWARD BADEN-WÜRTTEMBERG
Best Digital Solution for Companies

#FRAME OF HELP
Best Sustainable Innovation for Banks

CIRCULAR SPC
Best Circular Solution for Municipalities

HIGHFIVE PROJECT

The Value Chain Generator (VCG.AI®)

Digitalising value chains in the brewery industry for the twin transition

Goal:

Improving the creation of circular value chains using AI and Big Data to find sustainable solutions for Pivovarna Laško Union.

PIVOVARNA LAŠKO UNION

PART OF THE HEINEKEN COMPANY

Confidential & Proprietary. Copyright © VCG.AI. All rights reserved.

PROBLEM STATEMENT

Complexity

The search for circular solutions and new value chains is challenging due to a lack of knowledge and the novelty of the industry.

Yeast is currently in high demand in the market. Pivovarna Laško Union (PLU) is open to new solutions.

Currently, thousands of tons of waste are underutilised

The company lacks the personnel and expertise to develop internal solutions.

Seeking external partners

Confidential & Proprietary. Copyright © VCG.AI. All rights reserved.

A new & complex opportunity with many unanswered questions for companies looking to develop new processes and biobased products

FEEDSTOCK

?

TECH PROCESSES

?

MARKETS

?

Confidential & Proprietary. Copyright © VCG.AI. All rights reserved.

VCG.AI: The intelligence to discover & develop technically viable and profitable pathways to produce target products

10M+ LATEST patents, research papers, market reports, LCA...

+250 types of by-products & waste

+150 conversion technologies

SPEED IN INNOVATION WEEKS vs YEARS

Confidential & Proprietary. Copyright © VCG.AI. All rights reserved.

Integrated assessment of the entire value chain facilitating seamless cross-team collaboration and building institutional knowledge

Technology process

Feedstock

Market

Climate impacts

Policy & Regulations

TEA

Confidential & Proprietary. Copyright © VCG.AI. All rights reserved.

WHY VCG.AI: ACCESS THE GLOBAL CIRCULAR BIOECONOMY INTELLIGENCE

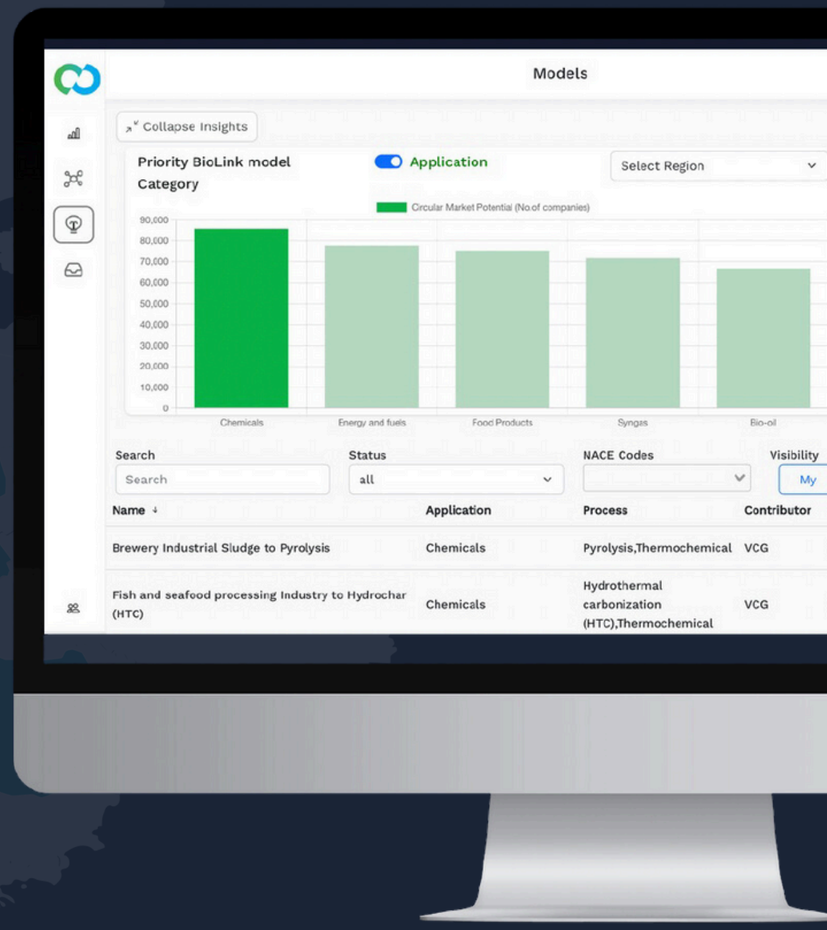
vcg.ai
VALUE CHAIN GENERATOR

PROFITABLE CIRCULAR BIOECONOMY
Launch profitable and technically viable solutions with objective, real-time insights from millions of data points, including industry data, patents, research, and many more.

INCREASE THE R&D EFFICIENCY & GROW FASTER
Reduce your R&D timelines from years to weeks with tailor-made solutions for your innovation challenges.

GLOBAL KNOWLEDGEBASE AT YOUR FINGERPRINTS
Analyse globally, across geographies and sectors, and combine multiple corporate requirements.

TRUSTED PARTNER
Working with companies, cities, regions, and scientific institutions in 15 European countries.



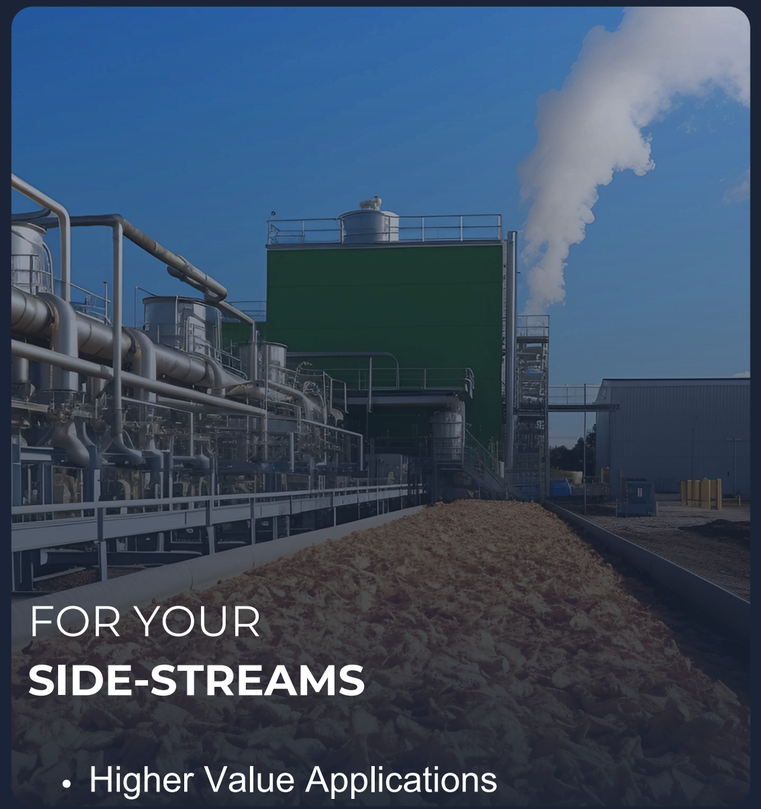
Confidential & Proprietary. Copyright © VCG.AI. All rights reserved.

WHAT CAN VCG.AI HELP YOU WITH?

We are your co-pilot: get direct access to the AI tool or work with our internal team of experts on your custom challenges.

FOR YOUR
PRODUCTS

- (New) Resources, Materials & Products
- Markets, Innovations & Technologies



FOR YOUR
SIDE-STREAMS

- Higher Value Applications
- New Buyers & Markets

FOR YOUR
INVESTMENT DISCOVERY

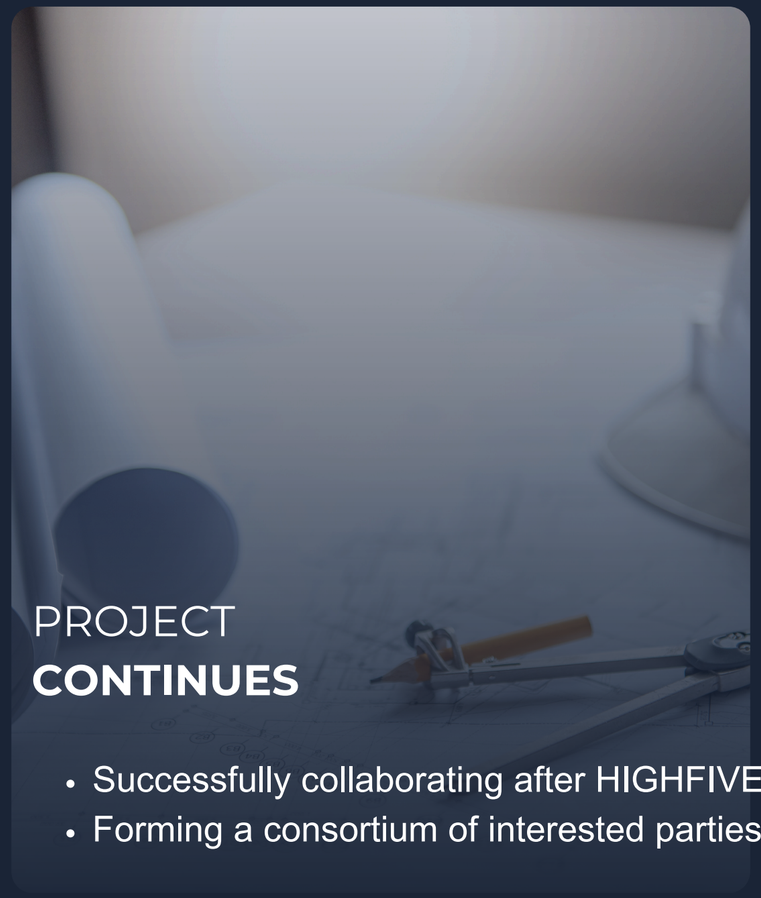
- Investment Discovery & Validation
- Value Chain Matchmaking

Confidential & Proprietary. Copyright © VCG.AI. All rights reserved.

WHAT HAVE WE DONE FOR PIVOVARNA LAŠKO UNION DURING HIGHFIVE?

FOUND A **SOLUTION**

- Valorising spent yeast to proteins
- An economic and environemntal opportunity



PROJECT **CONTINUES**

- Successfully collaborating after HIGHFIVE
- Forming a consortium of interested parties

FUTURE: **IMPLEMENTED BIOREFINERY**

- Five year plan is a built infrastructure to produce proteins out of spent yeast

Confidential & Proprietary. Copyright © VCG.AI. All rights reserved.

vcg.ai®

VALUE CHAIN GENERATOR

Let’s discover how VCG.AI can help you achieve your goals in a short Intro call.

SCHEDULE THE INTRO CALL

www.vcg.ai

Miha Škrokov
Project Manager
miha@vcg.ai

VCG.AI GmbH
Seyffer Strasse 34
70197 Stuttgart, Germany