
Interreg



Co-funded by
the European Union

Alpine Space

INNOBIOVC

REPORT

Deliverable D.1.2.1

Summary

This report provides insight and feedback from the arranged training workshops for the project partners and regional stakeholders.

Version 0.1, 20/12/2023



DELIVERABLE DESCRIPTION

DELIVERABLE: D.1.2.1 Report
WORK PACKAGE: WP1. Rolling-out the enhanced Innovation Express Scheme for establishing cross-regional value chains ACTIVITY 1.2: Anteja provides methodology and trainings to use VCG
AUTHOR(S): Mateja Dermastia, Miha Škrokov, Jon Goriup
DUE DATE: 31/12/2023
ACTUAL SUBMISSION DATE: 27.12.2023
DISSEMINATION LEVEL <input checked="" type="checkbox"/> CO: Confidential, only for members of the consortium (including the Commission Services) <input type="checkbox"/> CI: Classified as referred to in Commission Decision 2001/844/EC <input type="checkbox"/> PU: Public
GRANT AGREEMENT No: ASP0400287
PROJECT STARTING DATE: 01/04/2023
PROJECT DURATION: 18 months
COORDINATOR: Wirtschaftsförderung Raum Heilbronn GmbH

Quality of information

Co-funded by the European Union – Interreg Alpine Space. However, views and opinions expressed are those of the author(s) only and do not necessarily reflect those of the European Union or Interreg Alpine Space Programme. Neither the European Union nor the granting authority can be held responsible.

Reproduction is authorised subject to citing the source unless otherwise indicated. For use/reproduction of third-party material specified as such, permission must be obtained from the copyright. For further information on the INNObioVC project and to download additional resources, refer to the project website:

<https://www.alpine-space.eu/project/innobiovc/>

@InnoBioVC, 2023



REVISION HISTORY			
Version	Date	Modified by	Comments
0.1	20/12/2023	LCGA	The first draft is shared among consortium partners.
Final	27/12/2023		

TABLE OF CONTENTS

List of abbreviations	2
Executive summary	3
1. Introduction to the value chain generator	4
2. methodology to use the value chain generator	4
3. TRAINING WORKSHOPS IN THE REGIONS	5
3.1 WORKSHOP IN SALZBURG, AUSTRIA, WITH BIZ-UP AND SALZBURG INNOVATION	6
3.2 WORKSHOP IN LOMBARDY, ITALY, WITH THE LOMBARDY GREEN CHEMISTRY ASSOCIATION (LGCA)	8
3.3 WORKSHOP IN HEILBRONN, GERMANY, WITH WFG HEILBRONN	9
3.4 WORKSHOP WITH CHEMIE CLUSTER BAYERN	10
4. Conclusions	10

LIST OF ABBREVIATIONS

B2B	Business to Business
BizUP	Business Upper Austria
CBE	Circular Bioeconomy
IE 2024	Innovation Express 2024
IECS	Innovation Express Call Scheme
LGCA	Lombardy Green Chemistry Association
PLA	Polylactic Acid
SAT	Sustainability Assessment Tool
S3	Smart Specialization Strategy
TRL	Technology Readiness Level
VCG	Value Chain Generator
VCG.AI	Value Chain Generator AI



EXECUTIVE SUMMARY

The potential for unlocking the circular bioeconomy is primarily determined by the possibility of building **value chains** that connect all players, such as primary producers, suppliers of biomass and renewable by-product conversion technologies, brand owners, regulatory and certification agencies. These value chains can only be visible through the data collection of all project regions and data.

The INNOBIOVC report, Deliverable D.1.2.1, provides project partners with an overview of the training workshops which were conducted. The Value Chain Generator (VCG) provides input for discussions with project partners on strategies and findings related to fostering a circular bioeconomy in participating regions.

Training workshops were conducted with Business Upper Austria, Innovation Salzburg, Lombardy Green Chemistry Association, WFG Heilbronn and Chemie Cluster Bayern. These workshops aimed to define the scope of the Innovation Express 2024 (IE 2024) call, identify promising value chains, and pinpoint key stakeholders.

- In Salzburg, discussions focused on the critical mass of food companies and the need for processing facilities for fermentation to support the circular bioeconomy in Upper Austria.
- In Lombardy, the LGCA cluster's technological capacity was highlighted, emphasizing the need for collaboration with food and beverage companies for biomass supply.
- In Heilbronn, the workshop was focused on circular economy ecosystem which include also automotive, machinery and plastics industries.
- In Bayern, the workshop was focused on mapping most relevant regional waste streams, specifically focusing on waste management and water treatment



1. INTRODUCTION TO THE VALUE CHAIN GENERATOR

The Value chain generator utilizes the cutting edge BioLink[®] algorithm to define technologically sound and commercially viable circular value chains and business models for the regions and clusters.

Value Chain Generator (VCG) A Pathway to Circularity and Profitability

VCG leverages AI and big data Biolink[®] model, to repurpose industrial residuals into valuable resources and products. VCG not only enhances the profitability of companies in the region, but also aligns with climate targets by fostering a transition towards a circular economy.

Creating High-Demand Products from Waste

By matching companies based on their resource needs and residuals, VCG facilitates the creation of in-demand market products. It offers technical solutions and fosters business partnerships that reduce waste treatment costs, generate new revenue streams, and improve overall profitability. Simultaneously, it contributes to the reduction of CO2 emissions and the conservation of land and freshwater resources.

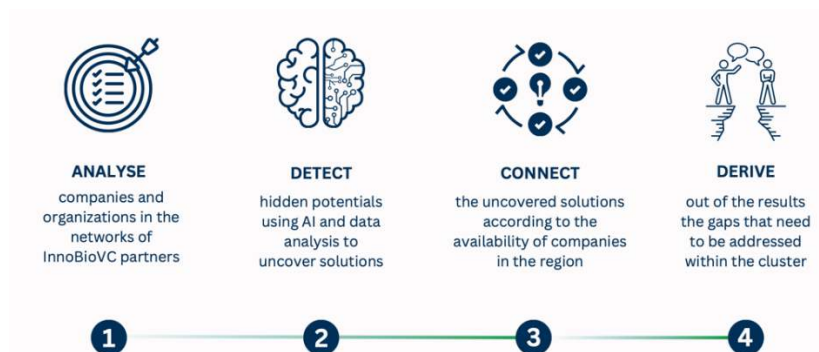
Empowering Regional Development Agencies, Clusters, and Chambers

VCG serves regional development agencies, clusters, and chambers in their effort to accelerating the adoption of circular economy practices among their members. It enables the exploration and development of viable solutions and concrete partnerships for projects and investments. Additionally, VCG promotes knowledge transfer across projects and initiatives, facilitating best practice sharing and expediting the transition to a circular economy while leveraging European-developed technologies.

2. METHODOLOGY TO USE THE VALUE CHAIN GENERATOR

The Value Chain Generator analysis of circular solutions for INNOBIOVC partners.

Figure 1: VCG methodology



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



INNOBIOVC

- **Clusters Company Analysis:** Analyzing firm level capacity for engagement in the circular value chains from the supply, technology, and market potential aspects.
- **Potential Detection:** Identify hidden cross sectoral opportunities for circular solutions within InnoBioVC partners regions.
- **Solution Connection:** Connect concrete companies in technical and business viable solutions.
- **Define partnerships for projects and investments:** It identifies the gaps that need to be addressed by the region and cluster, such as missing companies or the lack of supply, markets, or technologies. It provides lists of potential cross regional partnerships for closing the gaps.

3. TRAINING WORKSHOPS IN THE REGIONS

Anteja conducted four training workshops with InnoBioVC partners, namely Business Upper Austria, Lombardy Green Chemistry Association, and WFG Heilbronn. Additionally, the fourth workshop was conducted with the Chemie Cluster Bayern. The workshop with Upper Austria also included Innovation Salzburg.

These sessions were crafted to assist partners in defining the scope of the IE 2024 call, identifying the most promising value chains, and pinpointing the key stakeholders integral to the development of these value chains. The primary objective of each of these workshops was to explore potential circular value chains within the context of the IE 2024 initiative. This exploration involved identifying gaps within these chains and the key actors necessary to foster cross-regional cooperation. Such cooperation is crucial to bridge these gaps and stimulate the growth of the circular bioeconomy sector, extending from the Alpine Space and beyond.

This collaborative approach helped regional development agencies and clusters understand how to use the Value Chain Generator to define circular value chains that are technically and commercially viable for their members/regional companies. The structure of the workshops promoted active participation and open discussion. The workshop agendas covered the following range of pertinent topics:

1. Workshop Scope Overview
2. Presentation on Circular Economy Value Chain Analysis, VCG.AI
3. Identifying Viable Circular Value Chains for IE 2024: Discussion on Gaps and Obstacles
4. Defining Topics and Scope for IE 2024.

The key findings from the four workshops are presented below.

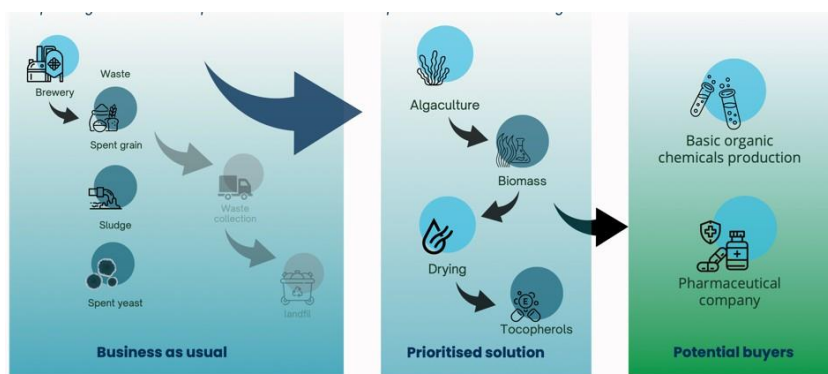
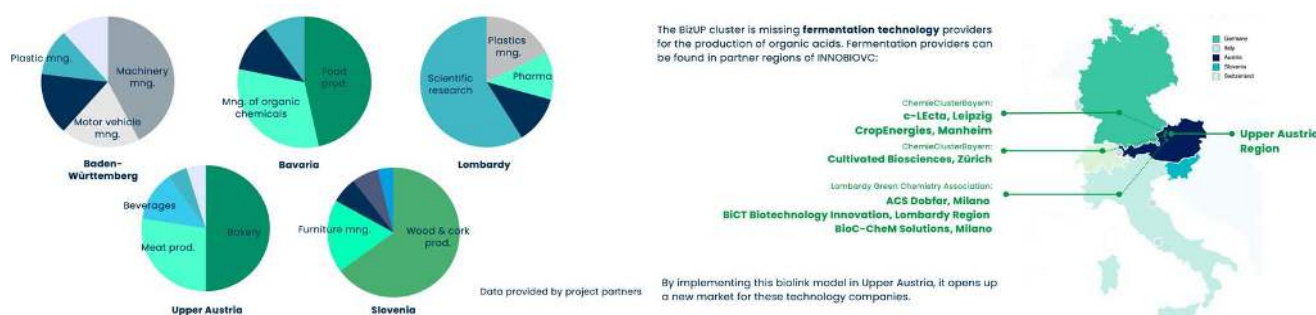


INNOBIOVC

3.4 WORKSHOP WITH CHEMIE CLUSTER BAYERN

The workshop was conducted with wider set of regions with aim to also promote circular economy in Central Europe on 14 December 2023. Besides Chemie Cluster Bayern (DE), National Institute of Chemistry (SI), Fraunhofer Italia (IT), University of Warmia and Mazury in Olsztyn (PL), Kujawsko-Pomorskie Voivodeship (PL), Carinthia UAS (AU), Slovak University of Agriculture in Nitra (SK) participated.

The Value Chain Generator was showcased, highlighting the potential for other regions to validate the technologies they are developing in real-world environments through the use of VCG. The discussion also covered options for identifying the availability of residuals in specific locations that can be transformed through technology, as well as markets for newly valorized materials.



The participants discussed options for engaging in activities and decided to further utilize the Value Chain Generator to expand matchmaking opportunities across the Alpine Space and Central Europe in circular value chains. This includes mapping regional waste streams most relevant to the technology solutions they are working on, specifically focusing on waste management and water treatment.

4. CONCLUSIONS



