

community-driven bioeconomy development



INTEGRATING PRIMARY PRODUCERS INTO BIOBASED VALUE CHAINS

SESSION #1: PRODUCTION OF BIOMASS FROM FARMERS AND FORESTERS

09 November 2023



Integrating Primary Producers into BioBased Value Chains

Session #1: Production of biomass

from Farmers and Foresters

Prof. dr Jana Klopchevska, Faculty of Technology and Metalurgy



AGENDA SESSION #1

Thursday 09 November 2023 from 9:00 am to 12:00 pm CEST

09:00 – 09:15	Main room – Presentations in English/French Warm-up: Where are we located? Introduction to the SCALE-UP project, Zoritza Kiresiewa	10:20 – 11:20	Break-out rooms Moderated in your language by a facilitator in your region. Collective discussions. See page 2
09:15 - 09:35	Successful project consultation for soil and water protection - knowledge transfer from theory to agricultural practice	11:20 – 11:30	Short break
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09:50 – 10:10	Sustainability and Circular Economy Potentials in terms of Food Waste	Short survey: give your feedback on the training	

10:10 - 10:20 Short break

(North Macedonia)





INTRODUCTION TO SCALE-UP

Zoritza Kiresiewa Ecologic Institute

21 November 2023





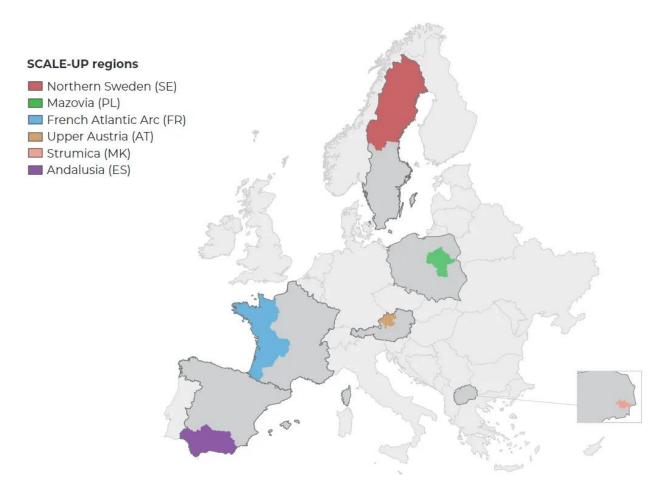
THE SCALE-UP PROJECT

A three-year EU-funded project, aiming to achieve:

- Increased capacity of regional multi-actor partnerships to accelerate the development of marketable bio-based products and services.
- Strengthened collaboration between primary producers, SMEs, clusters, social actors, and policymakers.
- Improved knowledge about nutrient recycling potentials in regional bioeconomies.
- High level of awareness and understanding of the bioeconomy and its impacts on local communities.
- Promotion of a sustainable, inclusive and just regional bioeconomy.



SCALE-UP'S FOCAL REGIONS



Region	Biomass streams
Northern Sweden	needles and tops, bark, sawdust, shavings
Mazovia	apple prunings and apple pomace
French Atlantic Arc	flax, hemp and miscanthus
Upper Austria	beer & bakery production (grains), fruit production, sunflower oil
Strumica	agricultural residues, by-products of food processing
Andalusia	olive prunings, pomace and wastewater

Source: SCALE-UP project

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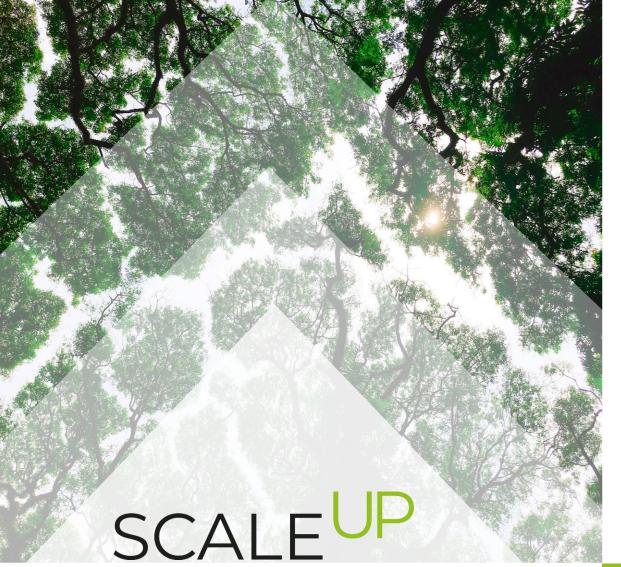
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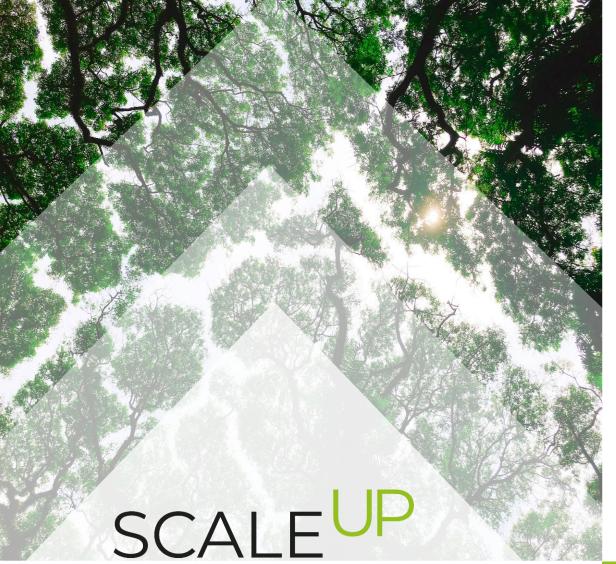


CONSULTATION FOR SOIL AND WATER PROTECTION KNOWLEDGE TRANSFER FROM THEORY TO AGRICULTURAL PRACTICE

Patrick Falkensteiner, Chamber of Agriculture Upper Austria

PRESENTATION







PUTTING PRODUCTION AT THE HEART OF THE SUPPLY CHAIN

Guillaume Mesnildrey Regional Chamber of Agriculture of Normandy

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PRODUCERS REGULARLY ISOLATED FROM DISCUSSIONS ON THE DISTRIBUTION OF VALUE



- A market price that applies to everyone
- Decision-making power delegated to structures disconnected from the field
- Strong national and international competition
- A lack of involvement by producers in the future of their production
- → Recreate a space for dialogue, giving a voice to every player: producer, processor, distributor, etc.
- → Rebalancing the balance of power



2 EXAMPLES IN NORMANDY

A new sector: Hops

A historic industry: beef







EMERGENCE OF HOPS IN NORMANDY

A new sector:

- → No technical and economic references
- → Little knowledge of the potential market
- → No suppliers, no advice, no technical support

A blank page in 2019!



EMERGENCE OF HOPS IN NORMANDY

Creation of the "Houblons de Normandie" association, bringing together all the hop growers under a common banner:

- Hop growers
- Brewers, hop users
- Everyone can have their say on the construction of the sector
- Neutral coordination by the Chamber of Agriculture

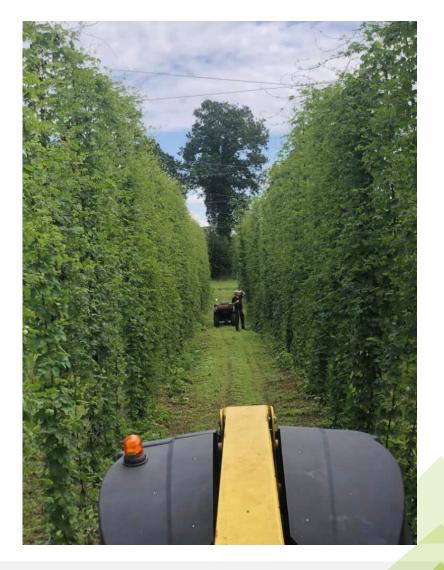






Starting from scratch, the players were able to work together to create the conditions for success:

- Variety trials by brewers
- Market research
- Visits to hop farms and breweries to find out more about the business and the constraints specific to each profession
- Collective promotion of the sector
- A climate of trust between producers and buyers
- → Balanced relationship, easier to discuss price under these conditions





PROMOTING NORMANDY BEEF

A historic, traditional sector:

- → Many technical and economic references
- → Known market
- → All the players are present in the region
- → Often conflicting relations between production and downstream

A history hard to forget



PROMOTING NORMANDY BEEF

Creation of a working group that meets every month and brings people together:

- Breeders
- Slaughterers
- The distributor

Neutral coordination by the Chamber of Agriculture





PROMOTING NORMANDY BEEF

The programme:

- Visits to farms and slaughter houses
- Sensory analysis of meat in the laboratory
- Definition of production rules (no GMOs, no antibiotics, grass rearing, etc.)
- Establishing a price that is remunerative for the farmer and secure for everyone.
- In-store promotion







SUSTAINABILITY AND CIRCULAR ECONOMY POTENTIALS IN TERMS OF FOOD WASTE

Dr. Jana Klopcevska, Ph.D.

Associate Professor

Ss. Cyril and Methodius University in Skopje,

FTM - Department of Food and Biotechnology

Skopje, 21.11.23







SUSTAINABILITY

SUSTAINABILITY MEETS THE NEEDS OF THE PRESENT WITHOUT JEOPARDIZING FUTURE GENERATION



SUBSTANTIAL OPPORTUNITY FOR BUSINESSES READY TO SEIZE IT

Market size \$2.6 Trillion

-220,000 t CO2 / year

Global market for new circular agrifood products by 2030

WHAT IS SUSTAINABILITY?



INTERDEPENDENCIES BETWEEN 3 BIG THINGS



ENVIRONMENT

- Air
- Water
- Soil
- Energy



ECONOMY

- Managing scarce resources
- Profit instead of costs



SOCIETY

- Interaction among individuals
- Interactions among communities

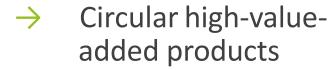


WHY TO FOCUS ON SUSTAINABILITY?

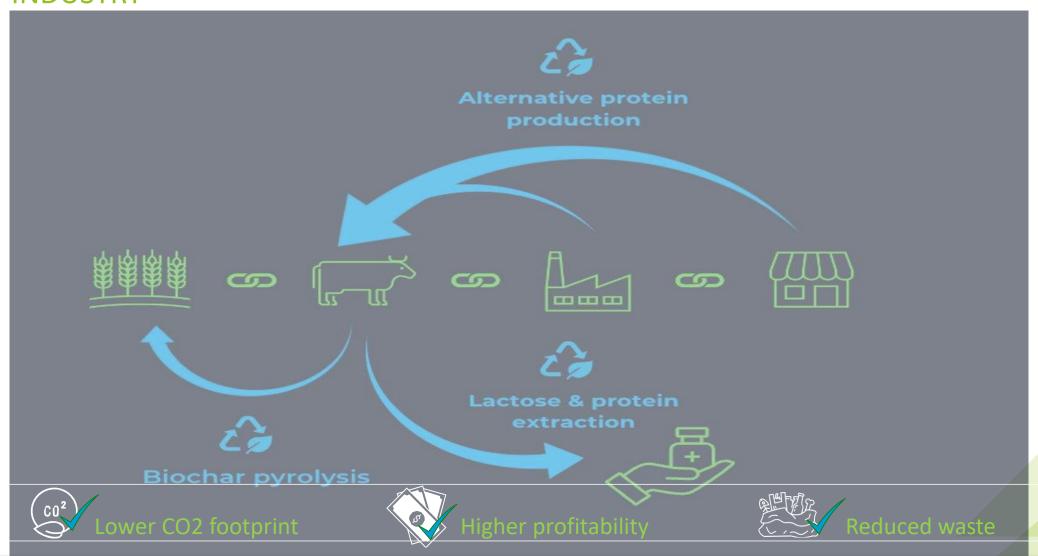
- To increase competitiveness by saving energy and material
- To respond to buyers' requests / EU regulations
- To develop sustainable products for an increasing market demand
- As part of the corporate strategy



SUSTAINABILITY AND CIRCULARITY IN AGRICULTURE, FOOD AND BEVERAGES INDUSTRY

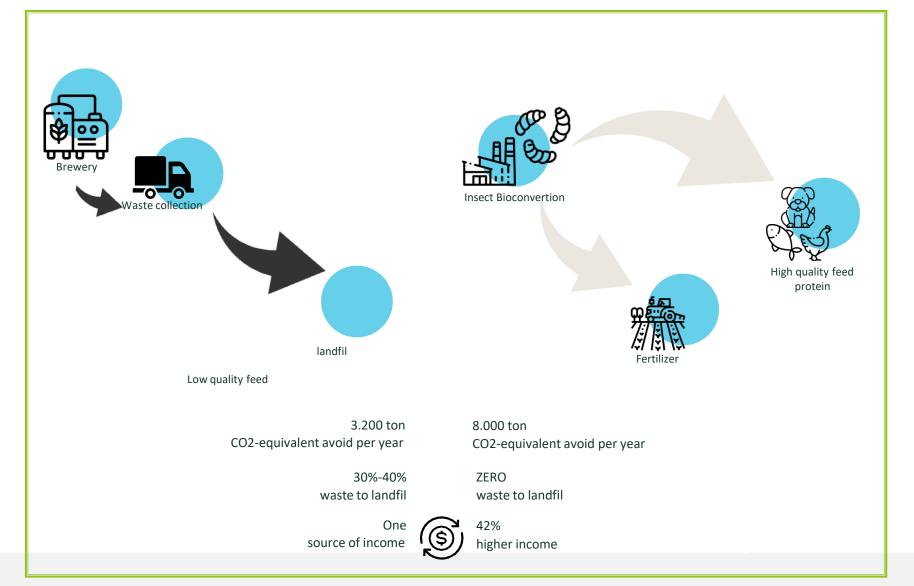






Brewery Example Circular Business model





A brewery company produce 50,000 ton of Brewery spent grain (BSG) annually. BSG is a by-product of the brewing process. Currently, a third party buys the BSG for EUR 3.5 per ton to be used as livestock feed without further treatment. Untreated BSG ended up at the landfill.

VCG.AI deploys circular technology VCG.AI identified insect bioconversion as the most appropriate solution to treat BSG. Black soldier fly larvae consume BSG as feedstock. Every two weeks, we harvest protein from larvae and organic fertilizers.

Example case study developed by VCG.AI, 2023

SUSTAINABLE



PRACTICES

Reduce

Energy, waste, water, resources

New Products

Sustainable products for the same market

New Opportunites

Create value from residuals /waste

Reduce dependency on vergin material Cost reduction, waste reduction, new income, higher profit









UN-ACTION PLAN: THE TRANSFORMATION OF OUR PLANET 2030



Established 2015

World's suggested best plan to build a better world for people and our planet by 2030



7 AFFORDABLE AND CLEAN ENERGY



8 DECENT WORK AND ECONOMIC GROWTH



















6 CLEAN WATER AND SANITATION









TEAM





lgor Izotov



Dr. Jana Klopchevska



Aleksandar Kuzinakov

















SOCIETY + REDUCTION OF WASTE

External

- Fair trade helps local farmers benefit
- Organic production supports the environment
- Local production reduces the use of energy for transportation

Internal

Sustainable packaging

COMPANIES THAT APPLIED SUSTAINABLE PRACTICES

ENVIRONMENT + ECONOMY + WASTEREDUCTION

- Match superfood is a unique concept for purpose-driven eco brands delivering products that are good for the planet Less than 25
 - Employees
 Strong growth after focusing on sustainability

Innovative packaging

MATCHI

By product used as a material for new product



SUSTAINABLE PRODUCTS













SUSTAINABLE PRODUCTS





SUSTAINABLE PRODUCTS



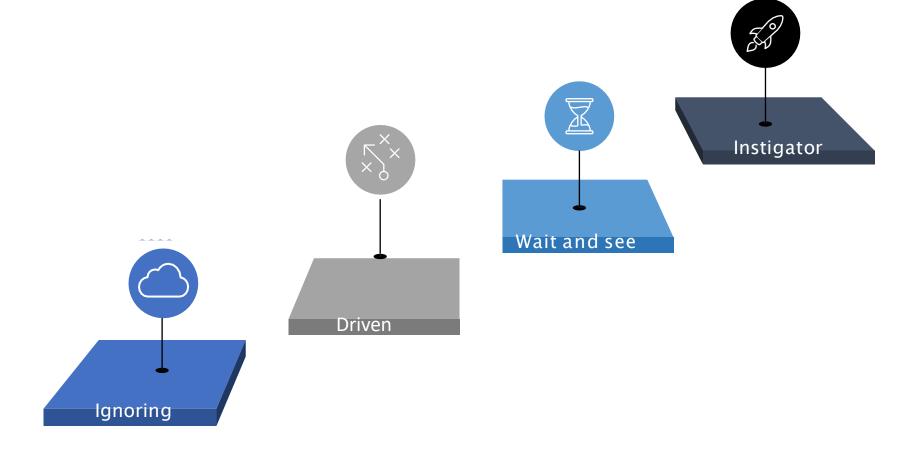














THANK YOU FOR YOUR ATTENTION

Dr. Jana Klopcevska, Ph.D. Associate Professor

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Website www.tmf.ukim.edu.mk

PROJECT PARTNERS





















This project has received funding from the European Union's Horizon Europe research and innovation programme under grant agreement No. 101060264.

Location, Date 37

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BREAKOUT ROOMS DISCUSSION TOPICS

1. What are the challenges in connecting upstream and downstream in a value chain? How does the information from consumers or from businesses flow back to producers?

2. How individual producers or groups of producers (cooperatives, informal collective) fit into a wider value chain? How to better cluster producers when and where it is needed?

3. What are the support structures for integrating producers: economical and regulatory framework, policies and local authorities, local facilitation ...





community-driven

BREAK-OUT ROOMS

You will be sent automatically in a few seconds

BO Room starts with 10 minutes Coffee Break Please come back soon!













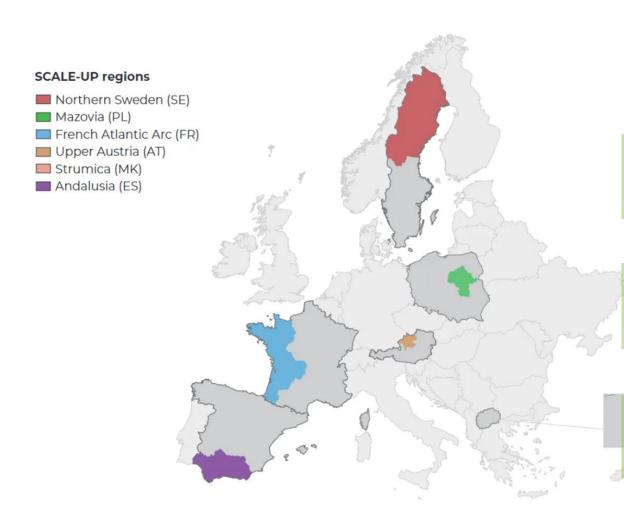
FEEDBACK SESSION

Starts with 10 minutes Coffee Break Please come back soon!

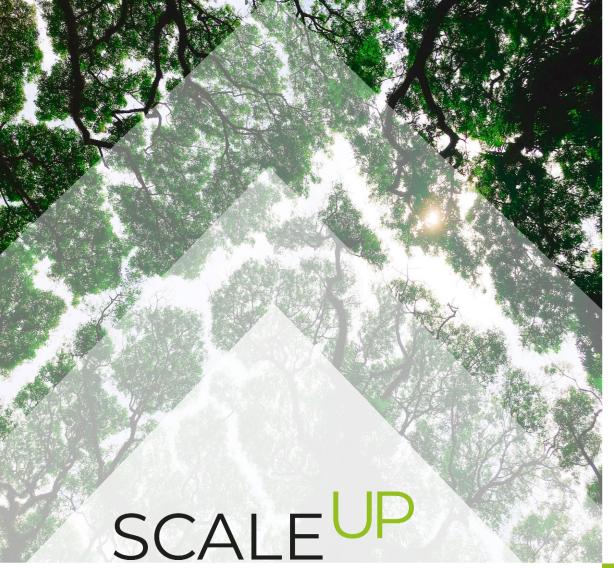








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- 3. What are the support structures for integrating producers: economical and regulatory framework, policies and local authorities, local facilitation ...





CLOSING WORDS

community-driven bioeconomy development





THE SCALE-UP TRAINING PROGRAMME

A community-driven, needsbased training programme for bioeconomy development in European rural areas

SAVE THE DATES!

EFFICIENT REGIONAL INFRASTRUCTURE & BIOMASS LOGISTICS

WS4

September & October 2023 07.09.23 / 26.09.23 /19.10.23

DIGITALISATION IN THE BIOECONOMY

WS3

January & February 2024 16.01.24 / 06.02.24 / 27.02.24

PRACTICES OF "SOCIAL INNOVATIONS" IN RURAL BIOECONOMIES

WS5

May & June 2024 14.05.24 / 04.06.24 / 25.06.24

INTEGRATING PRIMARY PRODUCERS INTO BIO-BASED VALUE CHAINS

WS2

November & December 2023 09.11.23 / 21.11.23 / 07.12.23

IMPROVED NUTRIENT RECYCLING

WS1

March & April 2024 12.03.24 / 04.04.24 / 23.04.24

GOVERNANCE OF REGIONAL BIO-BASED SYSTEMS

WS6

September & October 2024 05.09.24 / 26.09.24 /17.10.24

STRATEGIES TO ADDRESS SOCIAL, ECOLOGICAL AND ECONOMIC TRADE-OFFS IN REGIONAL BIOECONOMY DEVELOPMENT

WS7

October, November & December 2024 31.10.24 / 21.11.24 / 12.12.24



WORK STREAM 2

Integrating Primary Producers into Bio-Based Value Chains

Link to Register :

https://forms.gle/u7TQEAcC88ksRPSz6

SESSION #1

09 November 2023 – 9 am to 12 am CEST

Production of biomass from Farmers and Foresters

SESSION #2 21 November 2023 – 9 am to 12 am CEST

Value chains and markets: linking producers and stakeholders

SESSION #3 07 December 2023 – 9 am to 12 am CEST

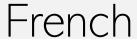
Innovations and challenges in production and mobilisation of biomass

SAVE THE DATE FOR THE NEXT SESSION!

SHORT SURVEY









Polish



German



Swedish

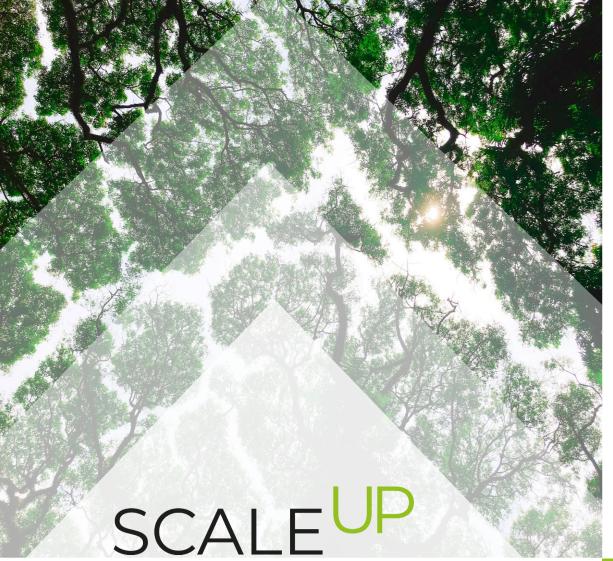


Macedonian



Spanish







THANK YOU!

SEE YOU IN THE NEXT SESSION ...

community-driven bioeconomy development

