



## BRANCHES

# Boosting RuAI bioeconomy Networks following multi-actors approaCHES

## **D2.5: SUMMARY REPORT 3 OF WORKSHOPS**

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**&**

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<b>Title</b>	Deliverable D2.5: Summary report 3 of workshops
<b>Creator</b>	Janusz Golaszewski & Robert Prinz
<b>Description</b>	The deliverable summarises the third and final set of conducted BRANCHES WP2 workshops in WP2 partner countries.
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The sole responsibility for the content of the workshop reports stated in the Workshop Annex (A to D) lies with the authors of the individual workshop reports or the hosts of the events. It does not necessarily reflect the opinion of the author of the deliverable, who is not responsible for images, videos or any use that maybe made of the information contained therein.

## 1 Goal of Workshops

“Workshops” aim to achieving several goals at one time, and namely:

Workshops are a fundamental tool to stimulate a two-way exchange of knowledge between the three main stakeholder groups: researchers, advisors and farmers/foresters. Therefore, workshops allow quick access to the latest research results to advisors and farmers/foresters, and at the same time make scientists aware of practitioners’ needs and inform them about the progress of informal innovation (that is: innovation achieved independently by practitioners). By analyzing workshop reports, one can eventually map the current needs and interests of supply chains by raw-material type (e.g. agro- and forest biomass, and short rotation coppice). Experts and practitioners are invited to specific tailored workshops, and active discussion between researchers and foresters, farmers and entrepreneurs is promoted. The Technical Partners (TPs) and Sectorial Partners (SPs) have the task of organizing the contents of all workshop reports, while TPs prepare and translate the documentation. In the framework of the present project, workshops are regularly held within the context of relevant sectorial fairs or events to keep the National Thematic Networks (NTN) alive and promote personal contacts.

## 2 Type of Workshop

Workshops can be held as online, physical or hybrid events; they can take place in combination with other events (fairs, tradeshows etc.) or stand alone, depending on the target groups, the aim of the workshop and the available opportunities. The focus of a workshop can be regional, national, or international. Workshops can focus specifically on one of the BRANCHES working packages (WP) or cover the scope of several WPs. National workshops are conducted mainly in local language to support BRANCHES’s bottom-up approach which aims to enable the widest possible participation. However, in case of international events, they can also be held in English to allow a wider participation.

## 3 Number of Workshops

The BRANCHES plan includes 11 workshops on subjects covered by WP2. That number is divided among participant countries as follows:

- Finland:
  - 3 workshops
- Poland:
  - 3 workshops
- Spain:
  - 2 workshops
- Italy:
  - 3 workshops

During the third reporting period (2022/2023) of the BRANCHES project, WP2 has organized or co-organized a total of four workshops.

## 4 Practicalities

When organizing a Workshop, the following practical project guidelines were carefully considered:

- Workshops refer to the BRANCHES project
- Banners or roll-ups are installed at physical workshop sites to advertise the BRANCHES project.
- Photos or screenshots are taken at each Workshop
- Attendance lists are compiled, indicating: 1) date and place and 2) name, company, and Country of each attendee.

## 5 Workshop Reports

A Workshop report has been compiled for each workshop, to provide an overview of the participation, the topics discussed during the workshop and a summary of the main outcomes.

**In summary**, a total of four workshops were held and reported in BRANCHES WP2 during 2022/2023. Workshops were held in Spain (ES 2), Poland (PL 3) and Finland (FIN 3 and FIN 4).

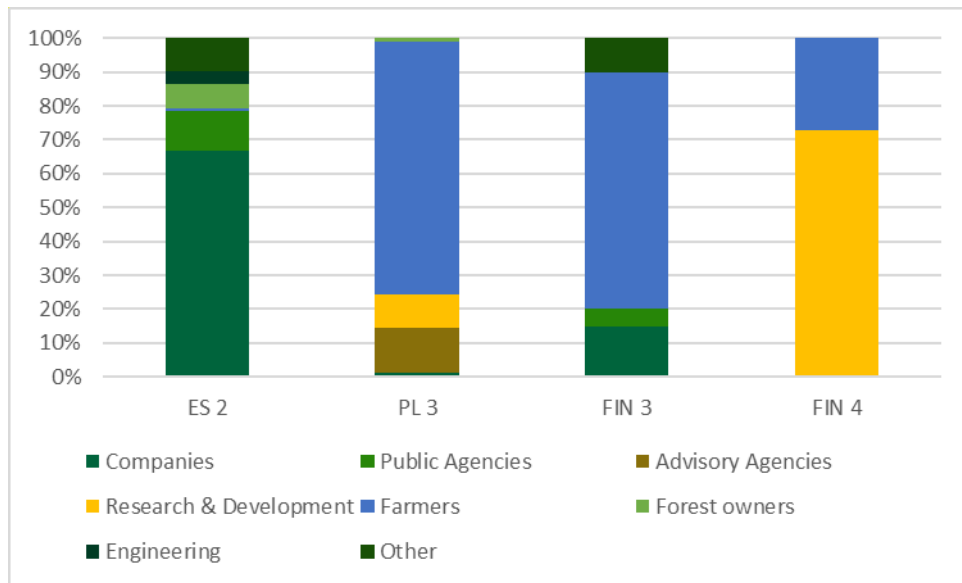
The four workshops had different goals and scopes: ES 2 focused on Innovative practices enabling new bioenergy and bioeconomy initiatives, and reached companies specifically as the event was organized in conjunction with the Expobiomasa fair; PL 3 focused on local systems of bioeconomy and renewable energies with good practices on value chains and policies; the topic of FIN 3 was a webinar titled “From grass to business” and offered interested attendees to hear about the multiple possibilities of grass production; the additional FIN 4 workshop focused on innovations to support rural bioeconomies and was organized in conjunction with the KoneAgria fair.

The different subjects and target audiences also differenced in the audience numbers and characteristics. Overall, the four workshops were attended by 332 participants, with a minimum of 11 (FIN 4) and a maximum of 129 (FIN 3). ES 2 and PL 3 were attended by 102 and 90 participants, respectively. An additional fifth workshop was held in Italy in Pizzoli on eco-sustainable supply techniques for woody biomass (23.4.2023, Title in Italian: Tecniche di approvvigionamento ecosostenibile della biomassa legnosa) with a total of 15 participants. However, this workshop is not included with further details in this deliverable. Furthermore, best practices on topics from this WP2 were presented and shared in two workshops held in Poland (Polish workshops in Olsztyn on 28-29 March 2023 and on 6 September 2023), although they are reported in other WPs and thus not included in this deliverable.

A pictorial representation of audience composition is presented in the following Figure 1.

Companies were the dominant presence in ES 2, while obviously primary producers were the main audience in PL 3, FIN 3 and FIN 4. A particular large share of farmers were present in PL 3 and FIN 3, given that

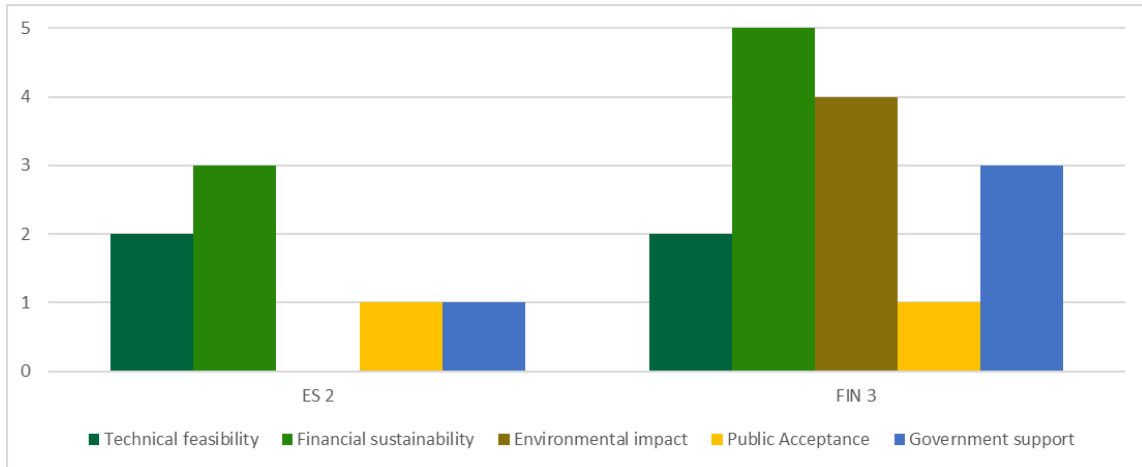
those events targeted specifically those professional groups. Public agencies, advisory agencies or research & development were present in basically all workshops, although in various numbers.



**Figure 1** – Participant composition for the Workshops conducted during Year 3

All workshops resulted in intense networking and generally allowed recruiting new members into the **National Technical Networks (NTNs)**. In all the four workshops, were presented some selected best practices and feedback was sought about their replicability within the regional and business environment of participants. Additional feedback about the fundamental requirements for the successful introduction of the proposed innovation, was obtained by using a simple structured questionnaire common to all BRANCHES partners, so as to allow comparison. Results from the two WP2 Workshops ES 2 and FIN 3 held in Year three are reported in Figure 2, which highlights the requirements that audience considers fundamental to successful introduction: the audiences dominated by companies and farmers are especially

sensitive to financial sustainability, farmers also considered environmental sustainability and government support as very important requirements.



**Figure 2** – Ranking of the main requirements for successful implementation as obtained from the audiences of the WP2 Workshops ES 2 and FIN 3 conducted in Year 3.

The included four Workshop Reports are attached to this document as Annexes 1 to 4.

## Annex 1 – Workshop Report “Second workshop Spain”

### Name of the workshop

Prácticas inspiradoras para innovar con biomasa

Innovative practices enabling new bioenergy and bioeconomy initiatives

**Language of event:** Spanish

### Description of the workshop

BRANCHES organized a joint event with several project with similar scope taking advantage of the Expobiomasa fair. The aim was to promote innovative practices with a high replication potential.

BRANCHES and INTERCAMBIOM NTN had a 1 hour slot in the event (total scheduled 4 hours) as BRANCHES was a principal project and the core initiative. The event was divided in two blocks:

- 1) Innovative practices enabling new bioenergy and bioeconomy initiatives: BRANCHES project presentation and 3 innovative practices were presented:
  - Bioenergy to preserve forest and protect from forest fires, Monte Holiday Ecoturism
  - Straw pelletisation plant, Ostargi
  - Essay machinery, Fravizel
- 2) Project briefs: 19 projects were presented (5 minutes each)
  - MainstreamBIO project
  - SCALE-UP project
  - ROBIN project
  - BIOTRANSFORM project
  - BIOMASA CAP project
  - AURORAL project
  - MOR-e project
  - Forest Cluster Jalisco
  - DRY4GAS project
  - ALL-TO-GAS project
  - LDBA project
  - Re4Industry project
  - Bioplastics project
  - BeonNAT project
  - BiorefforMED project
  - BIOVALOR project
  - TREEADS project
  - FIREPOCTEP project
  - Project led by CBE

Additionally, attendants could join a lunch to continue exchange and networking.

Workshop type  online  physical  hybrid  other, please specify: \_\_\_\_\_

Workshop organization  stand-alone

in connection with another event: Expobiomasa fair

other, please specify \_\_\_\_\_

BRANCHES working package:  WP1  WP2  WP3  WP4



other, please specify: \_\_\_\_\_

**Goal of the workshop**

The main objective was to share the key for success and barriers faced to implement the innovative practices presented. The speakers also shared with the audience the lessons learned seeking to improve the recipe to successfully develop these innovative practices. The attendants were also able to ask questions and interact with the speakers.

Additionally, the workshop allowed to increase the promotion of INTERCAMBIOM network and raise interest.

Furthermore, since the second part of the session was devoted to the presentation of other project it also contributed to connect with other projects and initiatives and identify potential synergies.

**Place & region of workshop**

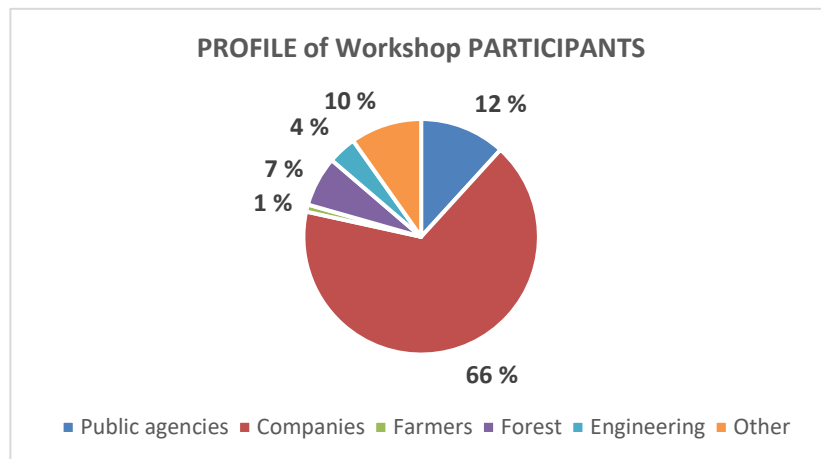
Valladolid Trade Fair Centre. Valladolid, Spain in the framework of Expobiomasa fair 2023.

**Dates of workshop** 9th May 2023

**Organizers**

AVEBIOM and CIRCE organized the workshop.

AVEBIOM is deeply involved in the organization of the Expobiomasa fair and was able to maximize synergies with other projects a session to present 19 projects was held jointly.



Number of attendees: 102

Audience breakdown (n° of attendees)	Count
Companies	68
Public Agencies	12
Farmers	1
Forest owners	7
Engineering	4
Other	10

### Moderator's summary of practitioners' feedback

The workshop was quite successful not only due to the number of attendants as a side event of Expo-biomasa but also considering their general perception of the event.

The event allowed to promote innovative practices and projects with similar topics and scopes.

The time allocated for the presentations was quite short, 5 minutes for the projects and around 7 to 10 minutes for the innovative practices in the framework of BRANCHES project. Time was allocated for questions and doubts but only for the latter although a networking lunch was planned at the end of the workshops. These short speeches intended to summarize the most relevant information for the attendants.

In terms of the perception of the practitioners invited to share their experience, they were very keen to collaborate. They expressed their satisfaction and offered to be available for future workshops or other events.

Audience was specially interested on the barriers faced and solutions implemented to overcome them and the comparison to standard operation or machines to identify the improvement reached with the innovative practices shared.

Recap of issues raised by the audience (rating from 1 to 5 in order of increasing emphasis)

Technical feasibility	2
Financial sustainability	3
Environmental impact	0
Public Acceptance	1
Government support	1

Images





Agenda: <https://expobiomasa.com/actividades-paralelas/innovaciones>

**Summary of workshop dissemination actions:**

NTN Webpage	<a href="https://intercambiom.org/2023/04/27/9-de-mayo-expobiomasa-taller-practicas-innovadoras/">https://intercambiom.org/2023/04/27/9-de-mayo-expobiomasa-taller-practicas-innovadoras/</a>
Social media	<p><a href="https://www.avebiom.org/biomasanews/ave-biom/expobiomasa-acoge-una-excepcional-cumbre-de-innovacion-en-bioeconomia">https://www.avebiom.org/biomasanews/ave-biom/expobiomasa-acoge-una-excepcional-cumbre-de-innovacion-en-bioeconomia</a></p> <p><a href="https://www.linkedin.com/feed/update/urn:li:activity:7059171590940327936">https://www.linkedin.com/feed/update/urn:li:activity:7059171590940327936</a></p> <p>/ <a href="https://twitter.com/fCIRCE/status/1655902435502637058">https://twitter.com/fCIRCE/status/1655902435502637058</a> /</p> <p><a href="https://twitter.com/fCIRCE/status/1653407839153446912">https://twitter.com/fCIRCE/status/1653407839153446912</a></p>

## Annex 2 – Workshop Report “Third workshop Poland”

### Title of the workshop

Międzynarodowe warsztaty BRANCHES: Efektywne kosztowo i zasobowo zrównoważone łańcuchy dostaw biomasy

BRANCHES International Workshop: Local systems of bioeconomy and renewable energies – good practices on value chains and policies

**Language of event:** Polish and English

### Description of the workshop

The BRANCHES Workshop:

On 27th September 2022, the University of Warmia and Mazury in Olsztyn (UWM) and the Warmia and Mazury Agricultural Advisory Center Located in Olsztyn (WMODR) held a one-day workshop entitled “Cost effective and resource sustainable biomass supply chains”. The workshop was organized in the framework of WP2 and WP3 of BRANCHES project. Integral part of the workshop was to present a summary of EIP-AGRI reports by members of related Focus Groups, i.e. enhancing production and use of renewable energy on the farm (Janusz Gołaszewski, Poland), mobilization of forest biomass (Marta Gaworska, Poland), and increasing of production of industrial crops on marginal land (Mindaugas Šilinkas, Lithuania).

The sessions and presentations

Session 1: A brief presentation of good practices on bioeconomy and renewable energy sources in rural areas:

1. Mariusz Stolarski from UWM “Production of pellets from various types of post-extraction biomass of agricultural origin.
2. Ryszard Strug “Micro biogas plant in the agricultural production system”
3. Paweł Stachowicz from Quercus Lcd “Acquisition and logistics of biomass from marginal areas, including agricultural land overgrown with self-seeding trees and shrubs
4. Wojciech Miąskowski from UWM “Prosumer energy storage”
5. Maciej Neugebauer from UWM “HOTBEDS - heat generation from agricultural waste and use in agricultural production”

Session 2: EIP-AGRI Focus Groups – summary of selected reports

1. Bartłomiej Kołakowski from State Forests on behalf of Marta Gaworska - 1st Secretary, Environmental Policy Department, Permanent Representation of Poland to the EU: “Sustainable mobilisation of forest biomass”
2. Mindaugas Šilinkas, CEO of Euromediana group companies and deputy chairman of Forest Owners association of Lithuania: „Industrial crops for marginal and contaminated lands and for intermediate crops and intercropping strategies”
3. Janusz Gołaszewski from UWM: “Enhancing production and use of renewable energy on the farm”

Workshop type  online  physical  **hybrid**  other, please specify: \_\_\_\_\_

Workshop organization  **stand-alone**  
 in connection with another event  
 other (please specify \_\_\_\_\_.)

BRANCHES working package:  **WP2**  **WP3**  
 other, please specify: WP1 by presentation of NTN

### Goal of the workshop

- To present innovative good practices in the field of bioeconomy and renewable energy sources in rural areas of Poland
- To present and discuss some aspects of reports by EIP-AGRI Focus Groups.
- To promote project BRANCHES and Polish innovative practices, in relation to conclusions of the EIP-AGRI reports.
- To create mutual learning opportunities for key stakeholders regarding sustainable renewable energy options and biomass mobilization and utilisation

### Place & region of workshop

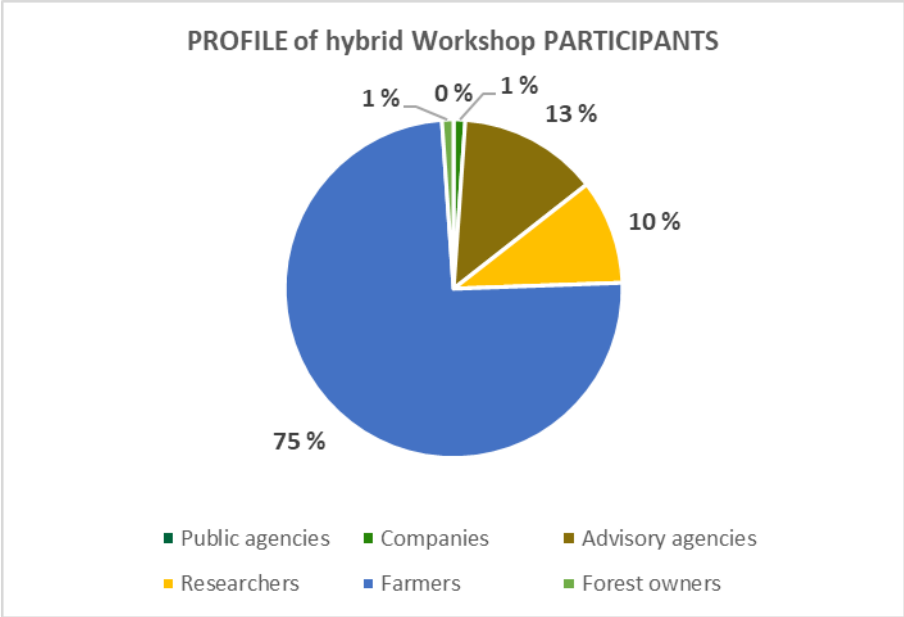
Hotel HP Park, Olsztyn, Al. Warszawska 119, 10-701 Olsztyn, Poland

**Date of workshop:** 27.09.2022

### Organizers

University of Warmia and Mazury in Olsztyn (Poland)  
The Warmia and Mazury Agricultural Advisory Center Located in Olsztyn (Poland)

**Number of attendees:** 90 (31 participants in person/at location, 59 participants online)



Audience breakdown (n° of attendees)	Category	Count
	Companies	1
	Public Agencies (administration)	0
	Advisory Agencies	12
	Researchers	9
	Farmers	67
	Forest owners	1
	Other	0

Images







Zoom Spotkanie

Wyświetl

Uczestnicy (35)

Q Znajdź uczestnika

	<b>Prezenter</b>		
<b>Urszula Wilczew...</b>	<b>Zbigniew Salma...</b>	<b>Izabela Chałubo...</b>	<b>w.staniszewski</b>
la Wilczewska	Zbigniew Salmanowicz	Izabela Chałubowicz	w.staniszewski
<b>g.kowalski</b>	<b>Czesław Kimbar</b>	<b>Agnieszka Pyzel...</b>	<b>Mindaugas Silini...</b>
g.kowalski	Czesław Kimbar	Agnieszka Pyzel (WMODR)	Mindaugas Silininkas
<b>Maria Holba</b>	<b>Jarosław Rynko...</b>	<b>Marta Krech</b>	<b>Mateusz Suchocki</b>
Maria Holba	Jarosław Rynkowski	Marta Krech	Mateusz Suchocki

Wyłącz wyciszenie Uruchom wideo Uczestnicy Udostępnij ekran Aplikacje Więcej Opuść

Zaprosz Wyłącz wyciszenie

Wpisz tu wyszukiwane słowa

14:21 27.09.2022

**Zoom Spotkanie** | Widzisz ekran UWM | Wyświetlanie opcji

**Prezenter** | UWM | Mariusz Stolarski

**Uczestnicy (38)**

- WB WŁODZIO B.
- ZS Zbigniew Salmanowicz
- AP Agnieszka Pyzel (WMODR)
- BW BOGUSŁAWA WYRĘBIAK
- DS Dariusz Skuńczyk
- JR Jarosław Rynkowski
- MG Maria Gągławska
- MS Mateusz Suchocki
- UW Urszula Wilczewska
- ZK Zbigniew Kępa

**Instalacja**

- Zagrodowa Kompaktowa Biogazownia Kontenerowa
- zintegrowana technologicznie i funkcjonalnie w systemie produkcji bydła w gospodarstwie rodzinnym

**Substrat:**

- gnójwica bydlęca jest jedynym substratem biogazowni zintegrowanej technologicznie i funkcjonalnie z obiektem obory krów mlecznych

**Proces:**

- gnójwica jest transportowana do reaktora fermentacji mezofilowej.
- wytworzony biogaz (60% CH<sub>4</sub>, 40% CO<sub>2</sub>) poprzez siłą powietrzną, elektrozawór i filtr węglowy zasila dwa silniki elektryczne o mocy 11 kW każdy.
- energia ciepła wywarzana w silniku, kolektorze wydechowym chłodzoną wodą i wymienniku ciepła gazów spalinowych jest wykorzystywana do ogrzewania reaktora i produkcji ciepłej wody.
- poferment jest gromadzony w zbiorniku i wykorzystywany do nawożenia własnych gruntów.

**Następny slajd**

**Brak notatek.**

**Zoom Spotkanie** | Widzisz ekran UWM | Wyświetlanie opcji

**Prezenter** | UWM | Mindaugas Silininkas

**Uczestnicy (40)**

- MK Marta Krech
- PB Paweł Brzostek
- RF Rafał Formański
- W w.staniszewski
- WJ Wiesław Jara, Diana Jara
- WB WŁODZIO B.
- ZS Zbigniew Salmanowicz
- AP Agnieszka Pyzel (WMODR)
- AZ Arkadiusz Zera
- CG czesław górski

### Poplar crops - model for carbon farming

Established on arable land,  
tCO<sub>2</sub>/ha accumulated

Established on grassland,  
tCO<sub>2</sub>/ha accumulated

**Wypisz tu wyszukiwane słowa**

### Annex 3 – Workshop Report “Third workshop Finland”

#### Name of the workshop

Nurmesta bisnestä kasvitilalle  
From grass to business -webinar

**Language of event:** Finnish

#### Description of the workshop

The event, held on the 22nd of March attracted over a hundred interested attendees online to hear about the multiple possibilities of grass production. The webinar covered a wide range of topics on the potentials of grassland production, especially for crop farms. The event highlighted a wide range of income models and benefits for farms from grassland production. Business perspective to grass production was also brought to the event by two CEOs, both from newly established companies. The webinar audience came from all over Finland and mainly consisted of farmers and experts from the sector.

Webinar program:

- Current state of grassland farming, Jukka Rantala, MTK
- Profitable grassland also on arable farms Maarit Kari, ProAgria
- How can farmers sell their grass to businesses?
  - o Company perspective: grass-based biogas production, Esko Rissanen, Biogas from fields -project
  - o Company perspective: opportunities to export dried hay products, Risto Uusitalo, Golden Fields Factory Oy
- Carbon sequestration and carbon credits Birgitta Vainio-Mattila, Ministry of Agriculture and Forestry

The webinar was aimed to be as interactive as possible; all participants were encouraged to take a part in the discussion. The presentations generated good discussion throughout the event. In addition, Menti platform was used to engage the audience already from the beginning of the event. Altogether the webinar was very successful and asked for. Grass production is typically produced by live-stock sector, and it has traditionally been less important for crop farms. The webinar well met its objective of raising awareness about the earning possibilities for crop farms from grass production.

Workshop type                      X online    physical    hybrid    other, please specify: \_\_\_\_\_

Workshop organization            X stand-alone  
 in connection with another event  
 other, please specify \_\_\_\_\_.

BRANCHES working package:  WP1  WP2  WP3  WP4  
 other, please specify: \_\_\_\_\_

**Goal of the workshop**

The main objective of the event was to raise awareness of the opportunities regarding grass production for crop farms and to find alternative income models for farmers from grass production. The webinar was tailored specifically to crop farms, and it provided a comprehensive overview about the benefits and possibilities of grass production. The event was also used to share knowledge of the latest practical abstracts from Finland.

**Place & region of workshop**

Teams: Finland

Region: Finland

**Dates of workshop** 22.3.2023

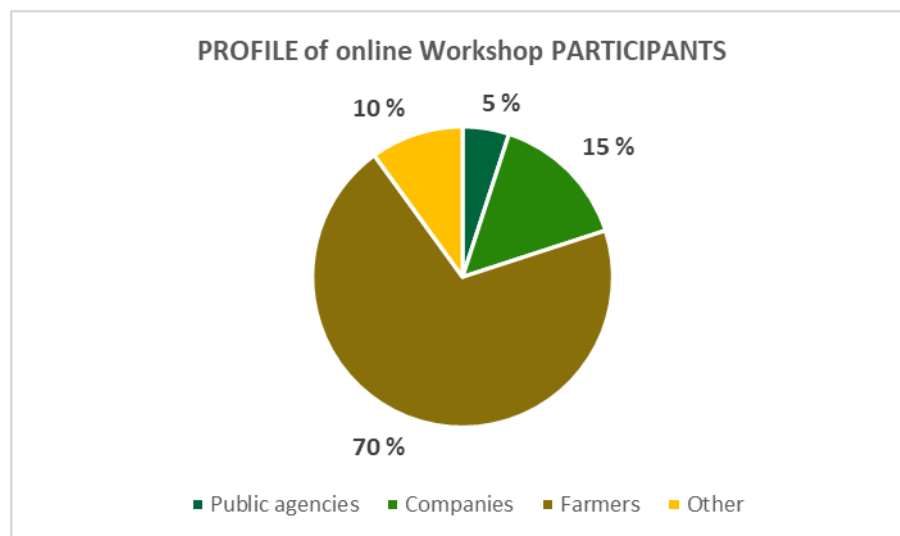
**Organizers**

The event was organized by four projects

- BRANCHES / MTK-Keskusliitto
- Farmer preparing for climate change / MTK-Keski-Suomi and ProAgria Keski-Suomi
- Climate action at the grassroots level / MTK-Satakunta

Supported by information / MTK-Pohjois-Savo

**Number of registered participants:** 129



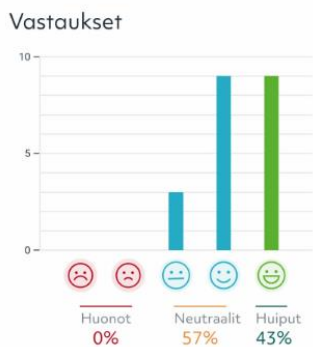
Registered participants breakdown: Companies 15%

Public Agencies	5%
Farmers	70%
Forest owners	-
Engineering	-
Other	10%

**Moderator’s summary of practitioners’ feedback**

15% of all attendees gave feedback through our registration system. Altogether participants were very satisfied with the webinar. Feedback was generally very good, here are some examples:

- Interesting and topical subjects. Good speakers and a variety of different angles and points of view
- Interesting topics, well organized event, and very professional lecturers
- Good speakers and topics
- A lot of new information was available, which I can utilize at my own farm
- Most of the presenters were interesting and provided content that I found useful. A few presenters were not very useful for me, although they were interesting. However, it was nice to see a wide range of perspectives on the topic.
- Positive atmosphere



Vastausprosentti  
**15 %**

Recap of issues raised by the audience (rating from 1 to 5 in order of increasing emphasis)

Technical feasibility	2
Financial sustainability	5
Environmental impact	4
Public Acceptance	1
Government support	3

Image

The image shows a Zoom webinar interface. The main content is a presentation slide titled "Tiivistelmät: parhaat käytännöt" (Abstracts: Best Practices) for the BRANCHES project. The slide features a grid of abstracts, each with a title, a small image, and a brief description. The abstracts are organized into columns and rows, with titles like "Metsätilanpidon huoltajien hyödyntämisen palvelu" and "Droonit haastavat väkijoukkoja ja tarjoavat työkaluja maataloukselle". The BRANCHES logo is visible in the top right corner of the slide. On the right side of the Zoom window, there are several video thumbnails. The top one shows a woman, and the one below it shows a man. At the bottom right, there is a "Gittern Laura" thumbnail with a "+65" indicator, suggesting a large number of participants.

Nora Berglund, MTK, presented the latest practical abstracts related to agriculture in the webinar.

## Annex 4 – Workshop Report “Fourth workshop Finland”

### Name of the workshop

Innovaatioita maaseutuelinkeinojen tueksi  
Innovations to support rural bioeconomies

**Language of event:** Finnish

### Description of the workshop

The Finnish workshop for BRANCHES WP2 and WP3 was organized on 13.10.2023 to present and discuss innovations that can support rural bioeconomies. The workshop was organized in conjunction with the KoneAgria fair, which took place from October 12 to 14, 2023, in Tampere, Finland. KoneAgria is a meeting place for professionals in the agriculture and forestry industries: visitors to the event are agriculture and forestry professionals from all over Finland who actively develop and invest in their business. The fair is organized annually and this year, the event had 425 exhibitors and over 17,000 visitors.

The number of participants in the workshop was 11. Three (3) participants were primary producers (farmers/foresters), while the other participants were from R&D sector.

Workshop type  online  physical  hybrid  other, please specify: \_\_\_\_\_

Workshop organization  stand-alone  
 in connection with another event (Organized in conjunction with KoneAgria fair)  
 other, please specify \_\_\_\_\_

BRANCHES working package:  WP1  WP2  WP3  WP4  
 other, please specify: \_\_\_\_\_

### Goal of the workshop

The goal of the workshop was to present selected BRANCHES WP2 and WP3 Practice Abstracts from Finland. In addition, a presentation was given by the winner of the BRANCHES Best Innovative Practice Award in Finland. The presentations were given by researchers from VTT Technical Research Center of Finland, Natural Resources Institute Finland and Centria University of Applied Sciences.

Following the presentations, participants were given the chance to engage in discussions about the presented innovations and share their thoughts on how these innovations could be applied in rural

areas of Finland, considering various aspects such as technical, financial, and environmental perspectives. Furthermore, a feedback session on how to attract more primary producers (farmers/foresters) to similar workshops was held.

**Place & region of workshop**

Exhibition and Sports Center, Tampere

Region: Finland

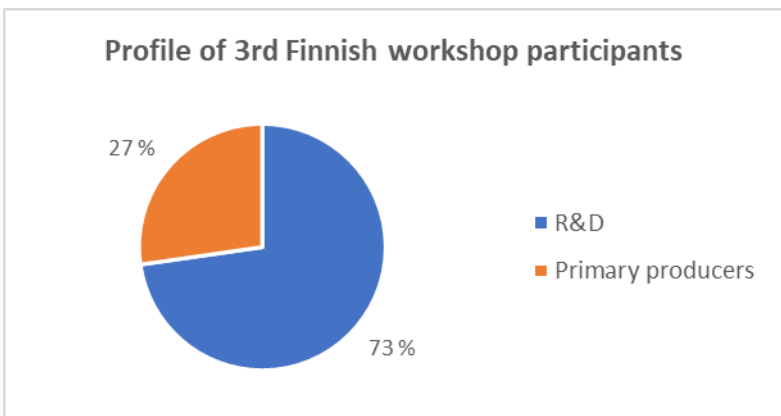
**Dates of workshop** Friday 13th October 2023 (10:00-11:30 EET)

**Organizers**

The workshop was planned and hosted by Finnish partners VTT and Natural Resources Institute Finland.



**Number of attendees**



Number of attendees: 11

Audience breakdown	Research & Development	8
(n° of attendees)	Primary Producers	3

**Moderator’s summary of practitioners’ feedback**



Kirsikka Kiviranta (VTT) started the workshop by introducing the aim of the workshop and the goal of the BRANCHES project. Then, the seminar was structured into three presentation sessions, each dedicated to a specific theme. The themes and titles of the presentations with the corresponding PA and presenters were as follow:

#### **Solutions for farm-scale energy production**

- Climate-smart food production (PA31), Kirsi Korpijärvi, VTT
- Hybrid solution to ensure energy self-sufficiency in a berry farm (PA6), Heidi Saastamoinen, VTT
- Manure-powered milk logistics (PA7), Heidi Saastamoinen, VTT

#### **Future technologies for agriculture**

- Farm-scale biomethane liquefaction (PA62), Simo Mäenpää, Centria University of Applied Sciences
- Biomass hybrid dryer (PA20), Jyrki Raitila, VTT
- Capturing and utilizing carbon dioxide from biogas (PA25), Kirsikka Kiviranta, VTT
- Drones detect local variations and provide tools for agriculture (PA46), Ari Ronkainen, Natural Resources Institute Finland

#### **New opportunities for forest owners**

- Boom corridor thinning - a harvester's working method for young dense stands (PA12), Timo Muhonen, Natural Resources Institute Finland
- Biomass atlas (PA38), Eeva Lehtonen, Natural Resources Institute Finland
- Non-timber forest products as market possibilities (PA26), Timo Muhonen, Natural Resources Institute Finland

A questionnaire was distributed to the audience with the aim to aid conversation related to the applicability of presented innovations in the Finnish rural regions. The questionnaire considered various aspects such as technical, financial, and environmental perspectives of the presented solutions. The objective was for the audience to assess their perspectives on a specific statement and innovation by evaluating if the presented innovations aligned with the provided statements. The statements were:

- *I could benefit from adopting this innovation on my own farm*
- *In my opinion, the innovation is technically feasible*
- *In my opinion, the innovation is economically viable*
- *In my opinion, the innovation is environmentally friendly*
- *I could receive funding to implement the innovation on my farm*

Especially the biomass hybrid dryer and the boom corridor thinning interested the primary producers in the audience.

After the presentations, there was a feedback session. During this session, ideas were discussed on how to attract more primary producers to workshops related to knowledge transfer of the innovative new practices and technologies. Engaging primary producers, particularly farmers and foresters, was acknowledged as a challenge.

One proposed idea was that when planning workshops and showcases with the aim to reach primary producers, evening events may be more convenient, as they accommodate the busy schedules of farmers and foresters who may find it challenging to leave their work and attend an event during the day. Additionally, the timing of the event should consider factors such as planting and harvesting seasons.

Furthermore, to foster knowledge-transfer, establishing connections with local agricultural associations that have direct links to local farmers and foresters is important for effective outreach to primary

producers and can help with engaging the target group. These local associations could assist in organizing local evening events with the local farmers and foresters.

- Additionally, it was suggested that events should go beyond presentations. Incorporating tangible elements, such as machinery or pilot devices, can engage participants and make the events more interactive.

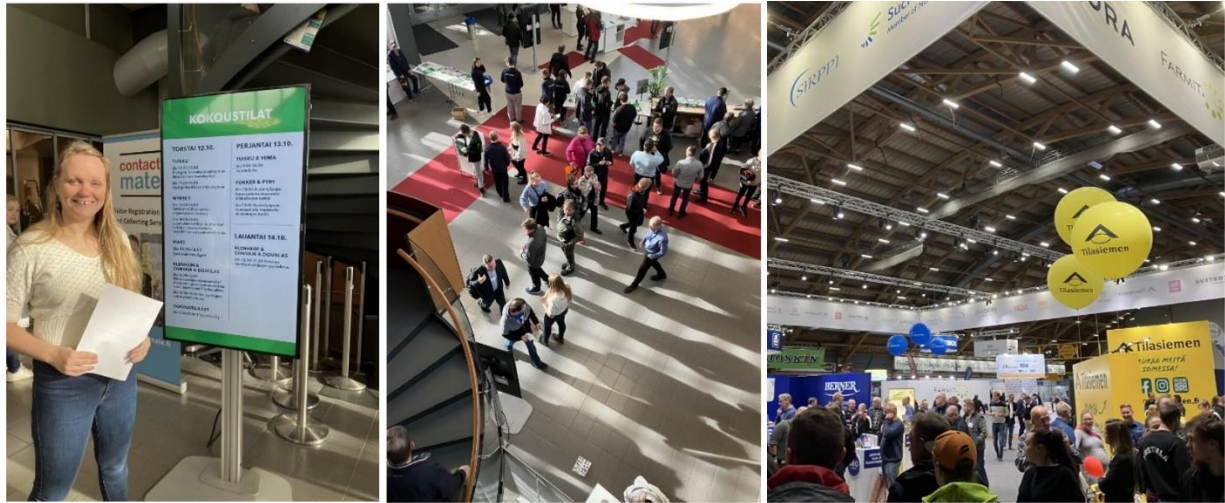
Images



Picture: The workshop set-up.



Picture: Several presentations were held. One included a hands-on demonstration on how to use the presented tool.



**Picture:** The attendants of the KoneAgria trade fair were also individually approached to share information of the BRANCHES project.

**BRANCHES**  
BOOSTING RURAL BIOECONOMY NETWORKS

**Innovaatioita maaseutuelinkeinojen tueksi**

**KoneAgria 2023 yhteydessä Tampereella**  
13.10. alkaen klo 10 ja 13  
Pyy&Fokker -tilassa Messukeskuksen kokouskäytävällä (D-halli), kulku pääaulasta

Ohjelma (75 min):

**Ratkaisuja maatilan energiantuotantoon**

- Ilmastovisaatio toimia kokeilutilalla
- Marjatilalla uusiutuvan energian hybridiratkaisu
- Liikennekaasua maatiloilta

**Tulevaisuuden teknologiat**

- Biometaanin nesteytys maatilakokoluokassa
- Aurinkoa ja ölykystä sähköä biomassan kuivaukseen
- Hiilidioksidi talteen biokaasusta
- Dranet maataloustöihin

**Uusia mahdollisuuksia metsänomistajille**

- Väyläharvennuskella nuoret metsät kurttoon tehokkaasti ja tuottavasti
- Biomassat kartalla ja kaikkien saatavilla
- Metsien luonnontuotteilla lisätuloja metsänomistajille

**ETSÄNOMISTAJA!**

tutustumaan KoneAgria 2023 -suulla kurtio.fi-puokappapaikkaan astollemme E430

terveydelle sellaisia palveluitamme käyttökelpoista on ja maksuttomia. Käsittelemme osastoilla, saat lahjaksi oman varoventtiilin!

asti parhaat supat: [www.kurtio.fi](http://www.kurtio.fi)

**NÄYTTELYOPAS**

**KONE AGRIA**  
12.-14.10.2023 TAMPERE

TERVETULOA VUODEN TÄRKEIMPÄÄN VILJELIÖIDEN OMAAN AMMATTITAPAHTUMAAN!

Maa- ja metsätalouden ammattitapahtuma

UPEA ARVONTA KÄVIJÖILLE!

Maatilan elämäntapa -kisa on nyt myös digitaalinen. Kisa on mahdollista osallistua myös digitaalisesti. Kisa on mahdollista osallistua myös digitaalisesti. Kisa on mahdollista osallistua myös digitaalisesti.

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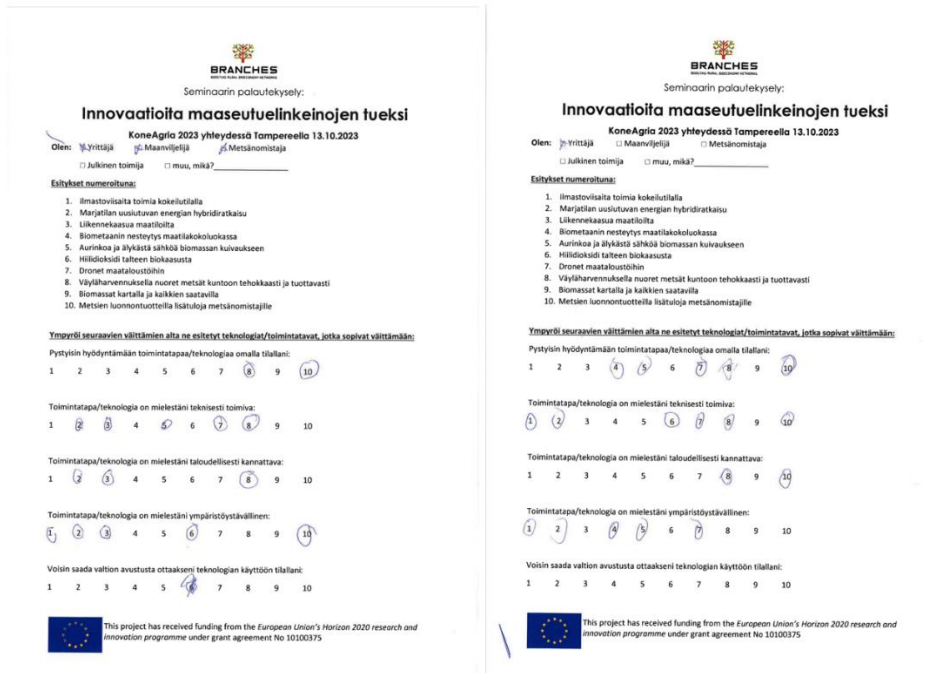
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**Luke** LUONNONTUOTE  
**VTT**

Tämä hanke on saanut rahoitusta Euroopan Unionin tutkimuksen ja innovaation puiteohjelmasta Horizon 2020 avustussopimuksen nro 101000375 - BRANCHES mukaisesti.

**Picture:** The workshop advertisement was created and featured in the KoneAgria exhibition guide. This guide, along with the advertisement, was distributed to 20,000 households alongside an issue of Käytännön Maamies magazine, a professional publication for farmers, a few weeks before the event. The workshop invite was also shared via BRANCHES network.



**Picture:** A questionnaire distributed to the audience with example answers (in Finnish). The aim of the questionnaire was to aid conversation related to the applicability of presented innovations in Finnish rural regions.