



Novafert

Deliverable 5.3 – Report on Regional Working Groups establishment in each NOVAFERT Region

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Executive Summary

The objective of this document is to describe the process followed to establish 7 Regional Working Groups (RWGs) in the participant European regions to engage stakeholders from target countries and create a broader Community of Practice for the use of alternative fertilisers.

NOVAFERT RWGs are intended to be groups of regional actors related to the value chain of the waste stream(s) associated with each region and the agricultural / farming sector, willing to contribute to the alternative fertilisers' development and implementation. Their opinions, views, experiences, doubts, etc. have been / will be gathered, discussed and developed, contributing to the creation of regional clusters.

Following a multi-actor approach, relevant stakeholders from targeted regions have been identified and contacted from the very beginning of the project and have been (and will be) involved in a variety of activities: elaboration of the SWOT and the PEST analysis (WP3), elaboration of Regional Specific Action Plans (RSAPs) (WP3), selecting and/or visiting the lighthouse demos (WP4), attending the participatory workshops (WP5), attending the Massive Online Open Course (MOOC) (WP6), etc. By the time the present deliverable was submitted, the stakeholders have participated in two main activities: the initial introduction of the project, being requested to become RWG members, and the elaboration of the SWOT and the PEST analyses (WP3), activity in which their contribution has been absolutely relevant. The RWGs will be also involved in other tasks with regional scope to consolidate clusters in each region, with the aim of making them permanent after the project ending. It is the consortium members' aim to continue enlarging the regional network of stakeholders interested in nutrient recovery and alternative fertilisers and operating in the target countries during the project lifetime and beyond.

To effectively create these RWGs, the RWG leaders were requested to establish an initial core group with habitual colleagues or collaborators related to the value chain of their associated waste streams or to the agricultural / farming sector. The aim was to start this work with 3-4 close and engaged collaborators aiming to identify and mobilise other stakeholders. Once these core groups were created, additional stakeholders were contacted and asked to be part of the RWGs, thus enlarging these structures as desired.

To achieve this, different introduction meetings were held, introducing the project and its aims to the stakeholders and asking for their participation. Several of these meetings have been reported in this deliverable.

Afterwards, once the groups had a considerable size, they were convened to bigger meetings, where concrete NOVAFERT activities like the SWOT analysis were conducted, counting with their views and contributions. Several of these meetings have been also reported in this deliverable.

It is the aim of all partners to continue interacting with the RWGs and counting with their contributions for many upcoming activities until the end of the project. The present deliverable reports the activities conducted since month 3 until month 15, the time in which the RWGs have been created. Although the creation task finalises in month 15, it is expected to continue organising meetings and consulting them until the end of the project in month 36.

The stakeholders groups have been tailored for each region according to their associated waste streams as shown in Figure 1:

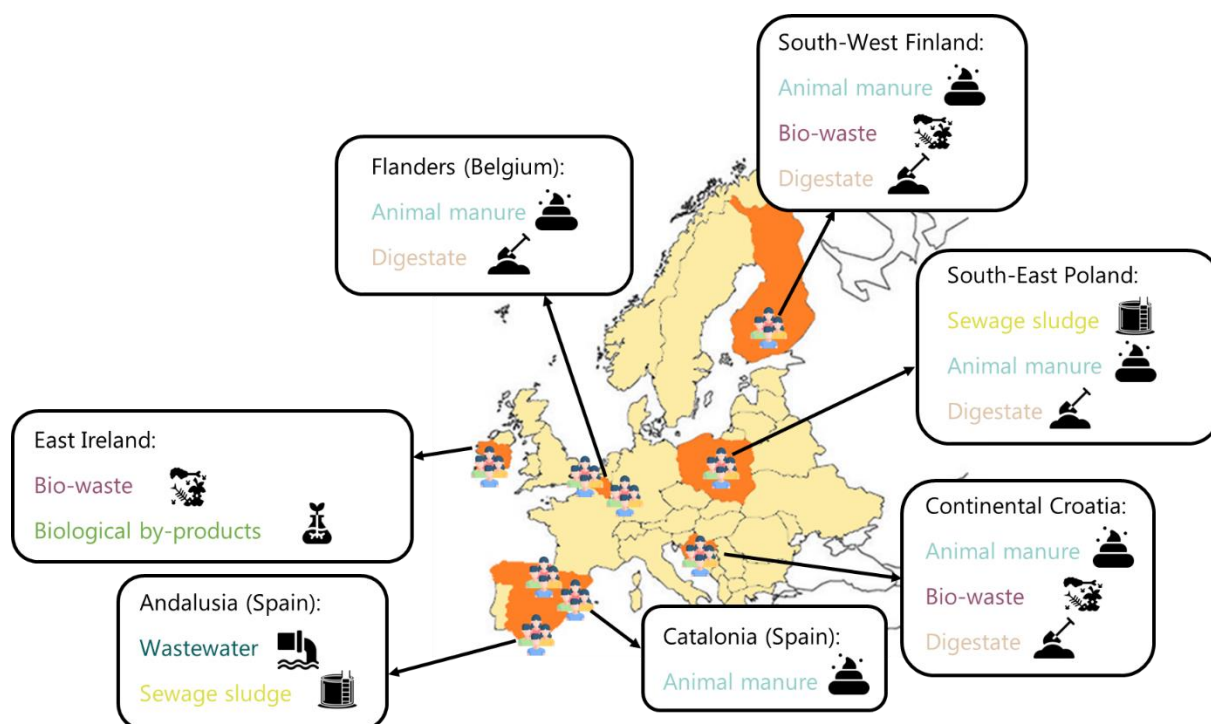


Figure 1. NOVAFERT regions and their associated waste streams

0. Introduction

One of the main objectives of NOVAFERT project is to set up 7 Regional Working Groups (RWGs) in the participant European regions to lead the transition towards the bioeconomy throughout the EU within the interconnected tasks in WP3 and WP5, and will be achieved through the successful implementation of five tasks, one of which we are focusing on in this deliverable:

- Task 5.2: Cross-network collaboration – establishment of RWGs (November 2022 – November 2023).

These RWGs are intended to engage relevant stakeholders of the target regions in the implementation of alternative fertilising solutions, serving as an important mechanism for gathering knowledge and opinions to contribute to the preparation and implementation of the Region Specific Action Plans (RSAPs) to be developed under task 3.3. RWGs will be also involved in other tasks with regional scope. A RWG has been organised in each of the target regions of the project, being led by the corresponding regional NOVAFERT consortium partner.

The stakeholders have been identified and contacted from the very beginning of the project to involve them in the definition of the strategies and following a multi-actor approach, and this work will continue until the end of the project duration. Each RWG is aimed to organise at least four meetings (face to face or online) per region, i.e., at least 28 meetings in total during the project frame.

The consortium partners are trying to include a balanced representation of stakeholders from the target groups identified per each region according to their associated targeted secondary raw materials. The RWGs are facilitated by a representative from the concerned NOVAFERT project partner to oversee the group operation.

It is expected that these RWGs will comprehend its start-up, preparation, discussions and dynamics to promote a participatory process and the engagement of all members, and follow-up actions in order to create permanent clusters in each of the target regions of the project.

1. What is a Regional Working Group?

The overall objective of the RWGs is to gather relevant knowledge and opinions that contribute to the preparation and implementation of the RSAPs to be developed within task 3.3.

Prior to the establishment of the RWGs, the NOVAFERT project has performed for each of the NOVAFERT concerned regions a screening of the relevant data and figures on a range of fertilising products near to be put into practice and a mapping of EU-nutrient recycling open innovation systems, that will be followed by the elaboration of recycled N&P products and ready for practice technologies.

This collection of information will be used to engage identified stakeholders in the RWGs and will be used to stimulate discussions within the RWGs. It will serve to promote the joint development of strategic thinking, the two-way exchange of ideas between the different stakeholders and will also feed with practical recommendations for the formulation of the RSAPs (task 3.3).

1.1. Structure and composition of the RWGs

NOVAFERT community is aimed to be based on the Quadruple Helix Model of Innovation, which recognises four major actors in the innovation system: science, policy, industry, and society. It is an innovation and collaboration model with a citizen/end-user perspective. The model is useful in innovation processes where the citizens' needs are central.

Using the Quadruple Helix and involving the citizens/end-users in the development of an innovation can lead to more successful, user-oriented innovations. The end users will be more likely to accept and use the innovation. It will also have a greater social benefit at a lower cost and improve empowerment of the citizens, who will increasingly experience trust towards the innovators and become an active part of the innovation system.

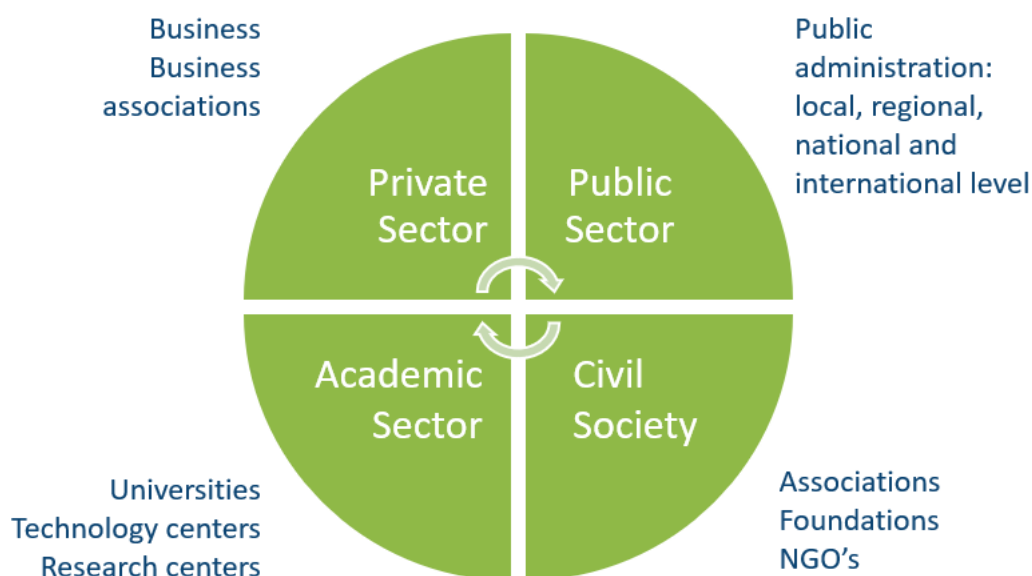


Figure 2. Quadruple Helix Model of Innovation

Considering the Quadruple Helix initial common classification, each RWG has to define (and further include a balanced representation in the RWG) the most relevant target groups within each of the four helixes according to their region and their targeted secondary raw materials.

1.2. Functioning of the RWGs

The facilitator from each RWG is encouraged to enrol the stakeholders in the active participation in RWG meetings, preparing a set of topics to be discussed and the activities to be implemented following a multi-actor participatory approach. This can be done after a discussion with the RWG core group, facilitating a consensus on the topics to be discussed during the meeting. This could contribute to actively engage the stakeholders from the beginning.

It is vital that the objectives and the expected outcomes of the RWGs are perfectly clear to all members that take part in the meetings and that the roles of engagement are also clear. The members of the RWGs, according to the DoA, have to:

- Propose practical recommendations for the formulation of the RSAPs (task 3.3).
- Disseminate intensively at local and regional level the NOVAFERT project results and outcomes through their own communication channels.
- Be engaged in the implementation of alternative fertilising solutions.
- Seek new opportunities to perform cooperative activities.

- Create permanent clusters in each NOVAFERT target region to adopt and disseminate alternative fertilising solutions.

1.3. Role and responsibilities of the RWG leader

The RWG facilitator is an individual belonging to the corresponding regional consortium partner. The main responsibilities of the facilitator are:

Table 1. RWG leader role and responsibilities

Responsibility	Expected Contributions	Outputs
Setting-up the RWG	<ul style="list-style-type: none"> - Invite and enrol active members (multi-actor approach). - Prepare topics for discussion. - Plan activities (participatory approach). 	<ul style="list-style-type: none"> - Invitation letter/e-mail to potential members. - Prepare the program of the meetings.
Running the RWG	<ul style="list-style-type: none"> - Explain the objectives and expected outcomes of the RWGs and members expected responsibilities. - Oversee the meetings run as planned. - Ensure that all members actively participate in the discussion. 	<ul style="list-style-type: none"> - Report with practical recommendations for the formulation of the Regional Action Plans (task 3.3).
Communication and outreach	<ul style="list-style-type: none"> - Organise and contribute to communication and dissemination activities. 	<ul style="list-style-type: none"> - Send inputs for the NOVAFERT website (brief description of the RWGs, members, calendar of events, scientific articles, news, etc.). - Publish at least 1 social media post per RWG meeting (before, during or immediately after). - Register RWGs members as followers of the NOVAFERT social media accounts and relay

		social media posts published by the central communication team to increase outreach.
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2. Identification of stakeholders for the RWGs

The identification of relevant stakeholders for NOVAFERT RWGs has been conducted in two steps based on the immediacy of the contact:

Step 1: immediate sources already identified:

- Own network of contacts.
- FER-PLAY project.
- Sources of information mentioned in the DoA:
 - EU projects: nutrient recycling-oriented EU-projects and Thematic networks, like NUTRIMAN, JRC's STRUBIAS project, SAFEMANURE.
 - EU Platforms and Associations: Biorefine Cluster Europe, ESPP, EBA, other EU-nutrient platforms.

Step 2: additional sources checked:

- EU, national and regional related projects.
- Regional sectorial operational groups (like the [EIP-AGRI Operational Groups Database](#)).
- Professional (when possible, regional) sectorial associations.
- Regional researchers / research groups.
- Regional public administration with competencies on the sector.
- Published best practices: atlas, compendiums or any other type of compilations (from sources like the [European Circular Economy Stakeholder Platform](#), among others).
- Sectorial events (annual / biannual conferences or fairs, etc.)

2.1. Initial members: the core group

In order to start the work, the partners established an initial core group with those colleagues or collaborators of the sector with which they are used to work. This core group has been the basis to further establish the RWGs.

The core group is integrated by at least 3-4 different stakeholders from the Quadruple Helix, and has been further enlarged thanks to the stakeholders identified. However,

this core group remains being important, as it constitutes the first “consulting body” with regards to any activity to be further organised at regional level.

2.2. Final RWGs composition

After the core group has been established, the partners have been contacting stakeholders and asking them to be part of our RWGs.

It is important to highlight this will be an active task until the end of the project, and there will be no limit to include members; the bigger the RWG is, the better, considering one of the main aims of the project is creating permanent clusters in each NOVAFERT target region to adopt and disseminate alternative fertilising solutions. The rest of the activities to be done during the project will also help to enlarge these RWGs.

3. Documents and tools created to manage the RWGs

Different documents have been created to support the partners in the compilation of information and also to further store it and present it in a homogeneous way.

3.1. Stakeholders’ regional lists

BIOAZUL created an Excel document with the aim of collating all information regarding the stakeholders identified. It was created and updated to SharePoint, so all partners could have it accessible in case of need.

It was created with the aim of being useful for other activities of other work packages as well, avoiding this way repeating the same initial steps for different tasks, so it compiles basic but useful information.

The Excel file has one sheet per region, even including an additional sheet for other EU regions / countries, as well as another one including the automatic data feeding the table.

Andalusia (ES)											
Type of stakeholder	Gender	Source of information	Click & reference / short description of the source from which the name of the stakeholder has been collected	In the scope of information related to the project	Click & reference / short description of the project (if applicable)	Surname	Name	E-mail address	Entity	Position	Location
Business - Large company	Private sector	Relay of contacts	Information in the regional road requested by NOVAFERT and PFCORP regarding the Yellow Pillage, through a survey within the Andalusian region	ES project	ES project	Regina	Julia	juliana@novafert.es	TR001	Coordinating engineer	Ylva-Málaga
Business - Large company	Private sector	Relay of contacts	Information in the regional road requested by NOVAFERT and PFCORP regarding the Yellow Pillage, through a survey within the Andalusian region	ES project	ES project	Marcos Rodríguez	Marcos Rodríguez	marcos@novafert.es	TR001	Intern	Ylva-Málaga
Business - Large company	Private sector	Relay of contacts	Information in the regional road requested by NOVAFERT and PFCORP regarding the Yellow Pillage, through a survey within the Andalusian region	ES project	ES project	Fredesma Olvera	Julia	juliana@novafert.es	TR001	Intern	Ylva-Málaga
Business - Large company	Private sector	Relay of contacts	Information in the regional road requested by NOVAFERT and PFCORP regarding the Yellow Pillage, through a survey within the Andalusian region	ES project	ES project	Guillermo Moreno	Julia	juliana@novafert.es	TR001	Editor	Ylva-Málaga
Business - Large company	Private sector	Relay of contacts	Information in the regional road requested by NOVAFERT and PFCORP regarding the Yellow Pillage, through a survey within the Andalusian region	ES project	ES project	Esteban A. Delgado	Julia	juliana@novafert.es	TR001		Ylva-Málaga
Business - Large company	Private sector	Relay of contacts	Information in the regional road requested by NOVAFERT and PFCORP regarding the Yellow Pillage, through a survey within the Andalusian region	ES project	ES project	Esteban Borge	Isaac	isaac@novafert.es	TR001	Agri-food engineer	Ylva-Málaga
Business - Large company	Private sector	Relay of contacts	Information in the regional road requested by NOVAFERT and PFCORP regarding the Yellow Pillage, through a survey within the Andalusian region	ES project	ES project	Vladimir	Marcos	marcos@novafert.es	TR001	Coordinator for food safety system	Ylva-Málaga
Business - Large company	Private sector	Relay of contacts	Information in the regional road requested by NOVAFERT and PFCORP regarding the Yellow Pillage, through a survey within the Andalusian region	ES project	ES project	Paloma Tello	Stefanie Marz		TR001	Agri-food technician	Ylva-Málaga
Business - Large company	Private sector	Relay of contacts	Information in the regional road requested by NOVAFERT and PFCORP regarding the Yellow Pillage, through a survey within the Andalusian region	ES project	ES project	Maria María	Adrián	adrian@novafert.es	TR001	Agri-food engineer	Ylva-Málaga
Business - Large company	Private sector	Relay of contacts	Collaboration in PFCORP project	ES project	ES project	Laura Rodríguez	Marcos	marcos@novafert.es	TR001	Quality and food safety technician	Ylva-Málaga
Business - Large company	Private sector	Relay of contacts	Collaboration in PFCORP project	ES project	ES project	Jose Manuel	Jose Manuel	josemanuel@novafert.es	TR001	Marketing Board Member	Ylva-Málaga
Foundation	Private sector	Relay of contacts	Collaboration in PFCORP project	ES project	ES project	Galilea Carrero	Angel	angel@novafert.es	CETARON Red Júcar	Project Manager	Málaga
Foundation	Private sector	Relay of contacts	Collaboration in PFCORP project	ES project	ES project	Galilea Carrero	Angel	angel@novafert.es	CETARON Red Júcar	Project Manager	Málaga
Business - SME	Private sector	Relay of contacts	Collaboration in RIBID project	ES project	ES project	Isabel	Isabel	isabel@novafert.es	ALBARRADIN	Manager	Torre del Mar
Business - SME	Private sector	Relay of contacts	Collaboration in RIBID project	ES project	ES project	Isabel	Isabel	isabel@novafert.es	ALBARRADIN	Executive board member	Torre del Mar
Business - SME	Private sector	Relay of contacts	Collaboration in RIBID project	ES project	ES project	Isabel	Isabel	isabel@novafert.es	ALBARRADIN	Executive board member	Torre del Mar
Business - SME	Private sector	Other external contact	Information in the regional road requested by NOVAFERT and PFCORP regarding the Yellow Pillage, through a survey within the Andalusian region	Not applicable		Tarifa del Río	Isaac	isaac@novafert.es	Enagite Iberia	Co-founder and CEO	Córdoba
Business - SME	Private sector	Other external contact	Information in the regional road requested by NOVAFERT and PFCORP regarding the Yellow Pillage, through a survey within the Andalusian region	Not applicable		Plasma Plana	Enagite	enagite@novafert.es	Enagite Iberia	Sub-director	Córdoba
Business - SME	Private sector	Relay of contacts	Collaboration in PFCORP project	ES project	ES project	Marcos Tello	Adrián	adrian@novafert.es	Agri-food Ltd.	CEO	Ylva-Málaga
Research center	Public sector	Relay of contacts	Collaboration in RIBID project	ES project	ES project	Umar Elvira	Francisco José	francisco@novafert.es	INRA La Higuera	Technician	Algarve
Research center	Public sector	Relay of contacts	Collaboration in RIBID project	ES project	ES project	Enrique Bernal	María Bernal	maria@novafert.es	INRA La Higuera	Senior Scientist	Algarve
Research center	Public sector	Relay of contacts	Collaboration in RIBID project	ES project	ES project	Enrique Bernal	María Bernal	maria@novafert.es	INRA La Higuera	Research Professor	Algarve
Research center	Public sector	Relay of contacts	Collaboration in RIBID project	ES project	ES project	Enrique Bernal	María Bernal	maria@novafert.es	INRA La Higuera	Manager	Algarve
Local public administration	Public sector	Regional director	Collaboration in RIBID project	ES project	ES project	Enrique Bernal	María Bernal	maria@novafert.es	Algarve Irrigation community	Member	Algarve

Figure 3. Excel file for stakeholders data compilation

The fields to be completed are the following:

- Type of stakeholder.** The type of stakeholder can be chosen from the ones available in the foldable list:
 - Business - Large company
 - Business - SME
 - Business - Start-ups / entrepreneurs
 - Farmers
 - Association
 - Foundation
 - University
 - Technology centre
 - Research centre
 - Local public administration
 - Regional public administration
 - National public administration

- NGO
- Other
- **Sector.** It refers to the sector from the quadruple helix to which the stakeholders belong. They are also included in a foldable list.
 - Private sector
 - Academic sector
 - Public sector
 - Civil society
- **Source of information.** It refers to the source from which the stakeholder information has been extracted. The possible sources are also included in a foldable list.
 - Network of contacts
 - Professional contacts via desk research
 - EU platform
 - National platform
 - Regional platform
 - Regional operational group
 - Regional cluster
 - Published article
 - Published case study
 - Other type of publication
 - Fair
 - Conference
 - Other sectorial event
 - Other
- **Link / reference / short description of the source from which the name of the stakeholder has been extracted.** The kind of information to be included here is a project website, a sectorial event, a case study, etc., or even a description, whatever it is considered more useful.

- **Is the source of information related to any EU project / national project / regional project / none of them?** It refers to the dimension of the initiative identified. The possible sources are also included in a foldable list.
 - EU project
 - National project
 - Regional project
 - Not applicable
- **Link / reference / name of the project (if applicable).** The name of the project, its grant agreement number or any other reference can be included here.
- **Surname.**
- **Name.**
- **E-mail address.**
- **Entity.**
- **Position.**
- **Location.**

The advantage of this table is that it is possible to filter by type of stakeholder, by sector or by source of information (it is possible also to apply a filter in more than one column at the same time), so, for example:

- Using the filter “type of stakeholders” and marking “farmers” could be useful to extract valuable information for WP1 inventories, info that could be exported and enriched according to the tasks needs.
- Using the filter “source of information” and marking “published case study” could be useful to identify potential candidates for WP1 living labs and WP4 lighthouse demos, and this info could be also exported and enlarged.

The sheet “other regions and countries” has an additional column with a foldable list including the EU countries. It is also possible to filter by country in this sheet. Thus, all information that does not belong specifically to NOVAFERT regions but could be considered relevant, could be included in this sheet.

3.2. Information and consent form

As much personal information is requested to the stakeholders, it is necessary to inform them about the concrete information that is going to be demanded (already described

in section 3.1) and how it is going to be used, and it is also necessary to have their consent to have it and use it.

To do so, IMPACT created an information and consent form for stakeholders to join the Regional Working Groups that was prepared according to the current EU legislation (template attached in **Annex 1**). The template was prepared by IMPACT in English, and afterwards it was translated to the regional languages and adapted according to the region needs by the corresponding project partners.

In addition to that, electronic forms were also prepared to facilitate their completion online.

The signature of this consent form is a requisite to be part of the RWG.

The RWG leaders are responsible of compiling and storing their corresponding signed consent forms. SharePoint folders have been also created with this purpose.

4. RWG meetings

As stated in the DoA, the RWGs have to organise frequent meetings during the project timeframe. The leader of each region has to organise at least four meetings, face to face and/or online, with the RWG potential members.

4.1. RWG meetings methodology

In order to actively engage stakeholders during the meetings, there are several tools that follow a participatory methodology and facilitate effective engagement of target stakeholders. The activities aim at promoting the engagement of stakeholders and their collaboration in a participatory approach.

An example of those tools is the [World Café method](#), whose description can be found in the Engage2020 Action Catalogue (an outcome of the EC funded Engage2020 project). It is a method for engaging groups, both within organisations and in the public sphere. This method follows the principle of a good conversation, where anybody is able to talk about things that matter to them, and it is founded on the assumption that people have the capacity to work together, no matter who they are.

The World Café method relies on seven core design principles:

- Set the context.
- Create hospitable space.
- Explore questions that matter.
- Encourage everyone's contribution.
- Cross-pollinate and connect diverse perspectives.

- Listen together for patterns, insights and deeper questions.
- Harvest and share collective discoveries.

The setting should create an environment which is most often modelled like a café (including round tables with 4 or 5 chairs). The host should begin with a welcome and an introduction followed with the first of three (or more) twenty-minute rounds of conversation for the small group seated around a table. After the first round, each member of the small groups moves to another table. One person will stay at the table as table host for the next round and briefly fills them in on what happened in the previous round. Each round of a World Café is prefaced with a question designed for the specific context and desired purpose of the session. After the small groups, the participants are invited to share results from their conversations with the rest of the whole group. These results are reflected visually in a variety of ways, most often using graphic recorders in the front of the room.

The World Café method can create results to generate new ideas, to enable joint decision-making on key strategic issues, to discover new ways for collaboration, to reflect on the implications of a complex issue and to identify specific steps for further exploration and implementation.

These meetings can be conducted in face to face or online modality. There are several online platforms that can be used when face to face meetings are not an option, and these tools still allow the planning of dynamics as described before. Tools such as Microsoft Teams, Zoom, Google Meet, GoToMeeting or Cisco Webex meetings are just some examples.

There are other methodologies that can be followed, it will always depend on the type of meeting and the purpose of it.

4.2. Engagement of stakeholders during the RWG meetings

Besides the different tools that can be used during the RWG meetings to promote a participatory process and engage stakeholders, there are several methodologies that can contribute to make the meetings more interactive and collaborative:

- Initiate the meeting with an icebreaker. This is particularly important if the participants do not know each other or come from a different background. This can be achieved by asking participants to pick a word that can in some ways define them, what can be then followed by a brief presentation of themselves.
- Promote participatory discussions, where tools like [Pinup](#), [Mural](#) or [Miro](#) can be a powerful instrument to promote debate and discussion. These are visual platforms with intuitive visual collaboration features like sticky notes that make collaboration creative, engaging and productive.

- Launch questionnaires using tools like [Mentimeter](#) or [Sli.do](#), which are live interactive applications to get feedback from the participants that allow to create pools and Q&A's, among others experiences with the participants.
- Network with other meetings' attendees. Networking (during breaks, for example) is a powerful tool for participants to get to know each other and to exchange ideas and experiences.

4.3. Communication with stakeholders after the RWG meetings

After each RWG meeting, it is important to make a follow up communication with the participants to keep them involved with the project and to encourage them to participate in the next RWGs events. This can be easily accomplished with several actions:

- Send an e-mail right after the meeting thanking the participants for attending it.
- Send an e-mail to the participants who did not show or attended and share some of the outcomes of the meeting. This might compel them to participate next time.
- Once the major outcomes of the meeting are prepared, send an e-mail with the major conclusions and results and, if possible, an indication for the next RWG event agenda.

4.4. Record of attendees and main outcomes of the RWG meetings

It is crucial to keep a register of the stakeholders who have participated in the RWG meetings, as well as of the main discussions carried out and the main outcomes of the events.

In this sense, a short report has been prepared after every meeting with one/several RWG member(s), not only to keep track of the outcomes of their discussions, but also to report about this work to the EC.

It is important to mention that at least 4 RWG meetings are mandatory, but more of them can be organised if needed. Moreover, not only formal announced meetings are intended to be reported, but also informal meetings and calls with other members from the RWG.

To facilitate the RWG meetings reporting, a fiche has been prepared by BIOAZUL. It has to be filled in by the RWG responsible and provided to BIOAZUL every time a RWG meeting is held.

[NAME OF THE REGION] REGIONAL WORKING GROUP EVENTS REPORTING					
EVENT	[Name of the event, e.g.: 1 st RWG meeting]				
DATE AND LOCATION (if applicable)	[Day/ Month/ Year – Online] <i>or</i> [Day/ Month/ Year – City, (Country)]				
FACILITATOR (consortium partner)	[Name of the facilitator – entity]				
PARTICIPANT(S) (add as many rows as needed)	[Name]	[Entity]	[Position]	[Stakeholder group]	[E-mail]
	[Name]	[Entity]	[Position]	[Stakeholder group]	[E-mail]
	[Name]	[Entity]	[Position]	[Stakeholder group]	[E-mail]
	[Name]	[Entity]	[Position]	[Stakeholder group]	[E-mail]
	[Name]	[Entity]	[Position]	[Stakeholder group]	[E-mail]

DESCRIPTION OF THE MEETING CONTENTS AND MAIN OUTCOMES	
ADDITIONAL MATERIAL TO BE INCLUDED	<ul style="list-style-type: none"> • Any presentation used (ppt, pdf, etc.). • Several pictures of the event, even if the event is held online (screenshots) (jpg, pdf, etc.). • Any dissemination material produced for the event: poster, leaflet, etc. (jpg, pdf, etc.). • Any resulting publication (pdf, doc, etc.). • Any other documentation related to the event like the agenda, any working document, etc. (pdf, doc, etc.)
LINKS (if any) TO THE RELATED PRESENTATIONS, PUBLICATIONS, ANNOUNCEMENTS IN THE ORGANISERS' WEBSITE, ETC.	
NEXT STEPS (if any)	

5. Current state of NOVAFERT RWGs

By the time the RWGs were established, the number of members were:

- Belgium (Flanders): 15 members.
- Croatia (Continental Croatia): 15 members.
- Finland (South-West Finland): 8 members.
- Ireland (East Ireland): 10 members.
- Poland (South-East Poland): 12 members.
- Spain (Andalusia): 34 members.
- Spain (Catalonia): 44 members.

The current state of the NOVAFERT RWGs, in terms of number of members and meetings held, is summarised in the following subsections.

5.1. Belgium – Flanders

5.1.1. Core group

The members of the Flemish RWG core group are:

- Sander Vandendriessche, Research centre.
- Kris Heirbaut, Farmer.
- Emma Van Steenweghen, Foundation.
- Mattie De Meester, Research centre.
- Wannes Masscheleyn, Farmer.

5.1.2. RWG members

The Flemish RWG accounts until November 2023 (the RWG will continue growing until the end of the project) 15 members, from which 12 belong to the private sector (5 are farmers, 4 to foundations, 2 to SMEs and 1 to a large company), 1 to the public sector (1 to the national public administration) and 2 to the academic sector (2 to research centres).

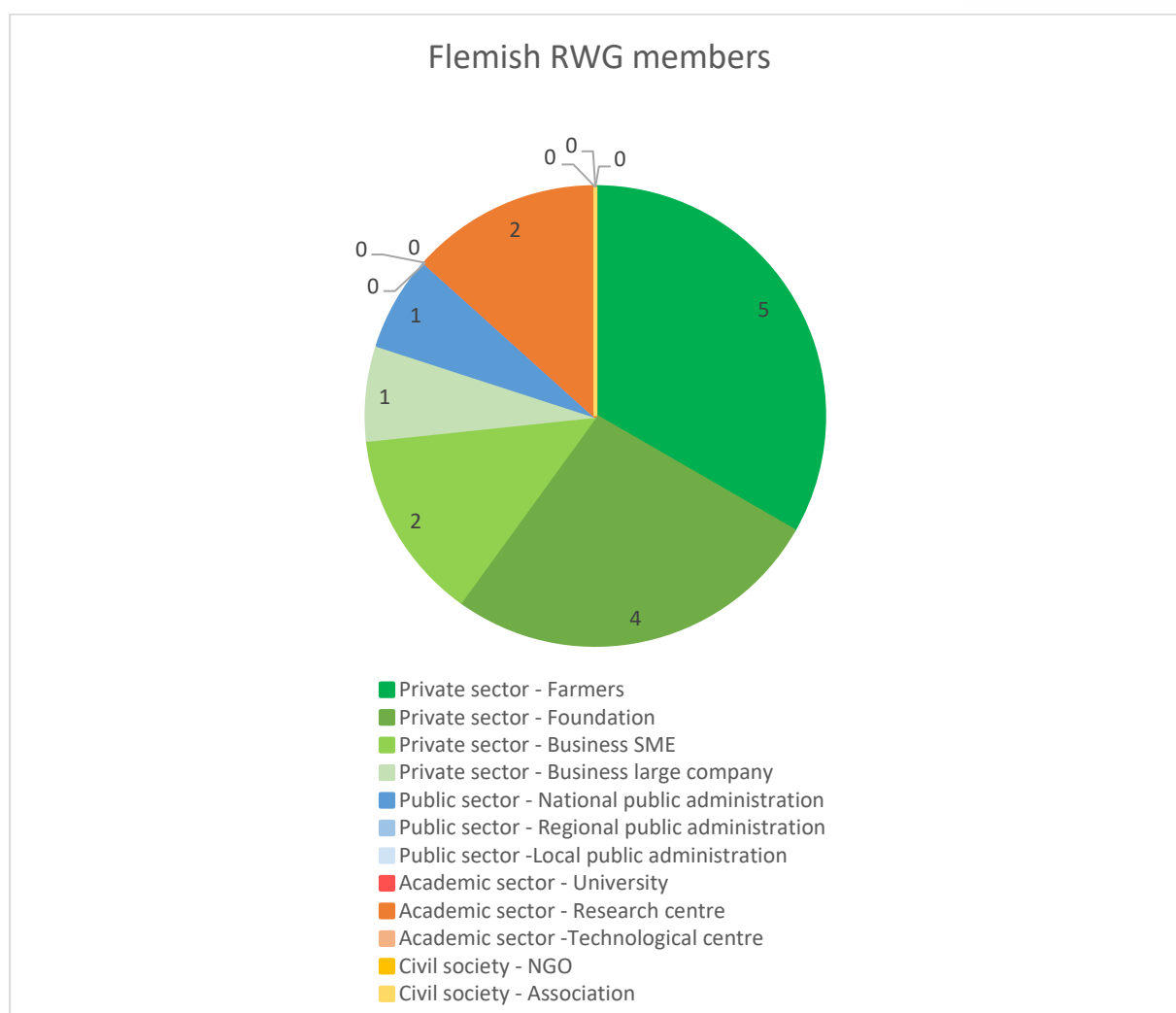


Figure 4. Composition of the Flemish RWG by November, 2023

5.1.3. RWG meetings

The meetings held until November 2023 (the RWG will continue growing until the end of the project) are summarised below (the fiches reporting these events are further attached as annexes):

- June 14th, 2023 (3 attendees): meeting online with a professional organisation for farmers and landscapers to disseminate the project, ask them to be part of the RWG and compile some relevant information for the SWOT analysis.
- June 20th, 2023 (37 attendees): meeting held in Ghent, Belgium in the framework of the Nutricycle Vlaanderen platform (Nutro2Cycle project) event on the future sustainable farming in Flanders. The project was presented, and relevant regional information on main challenges and needs was compiled.
- June 21st, 2023 (4 attendees): meeting online with a research institute that is also active in the NOVAFERT sister project FER-PLAY to introduce NOVAFERT, ask

them to be part of the RWG, introduce the SWOT analysis methodology and compile some relevant information for completing it.

5.2. Croatia – Continental Croatia

5.2.1. Core group

The members of the Croatian RWG core group are:

- Marija Mesić Tuškanec, Farmer.
- Dario Cenger, Farmer and Business – SME.

5.2.2. RWG members

The Croatian RWG accounts until November 2023 (the RWG will continue growing until the end of the project) 15 members, from which 10 belong to the private sector (3 are farmers, and 7 to SMEs), 4 to the academic sector (4 to universities) and 1 to the civil society (1 to an NGO).

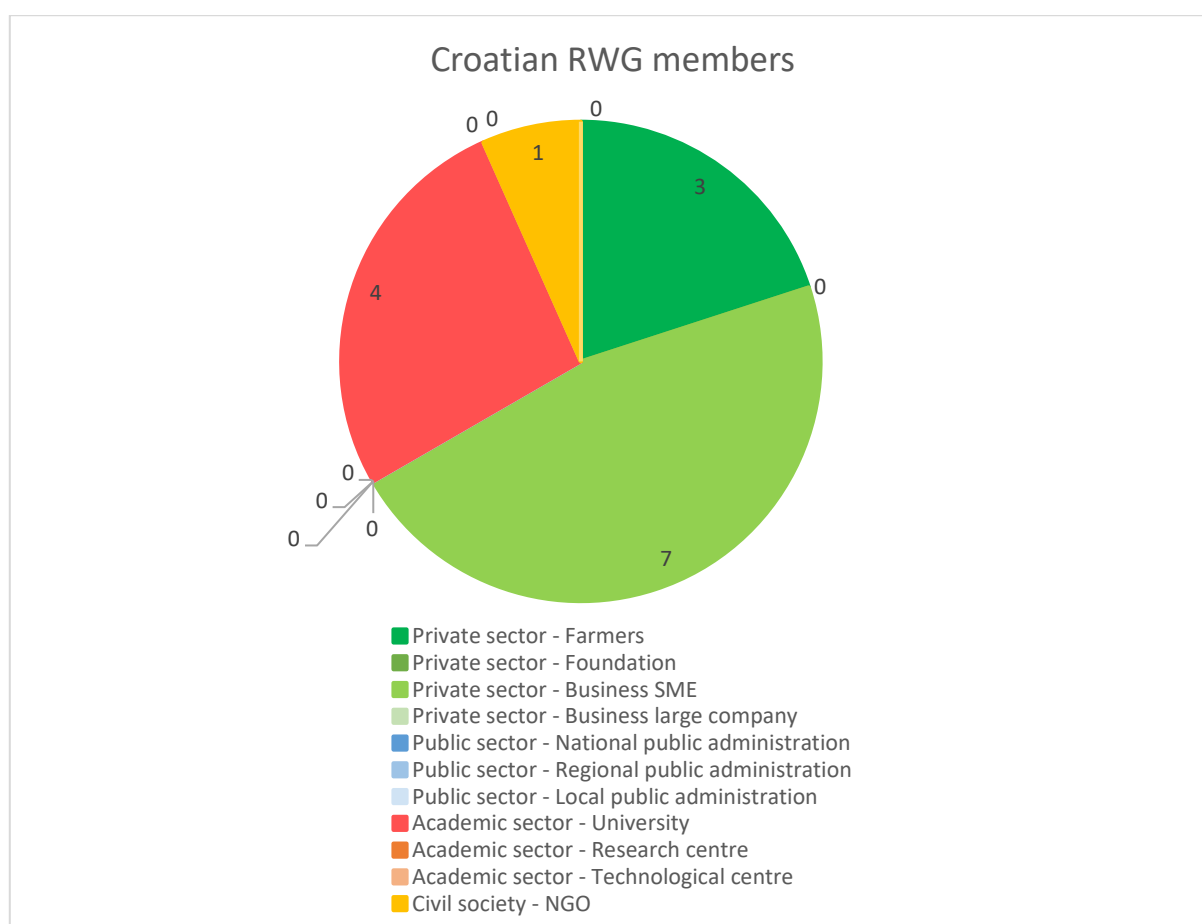


Figure 5. Composition of the Croatian RWG by November, 2023



5.2.3. RWG meetings

The meetings held until November 2023 (the RWG will continue growing until the end of the project) are summarised below (the fiches reporting these events are further attached as annexes):

- August 31st, 2023 (6 attendees): meeting held in Sisak, Croatia to introduce NOVAFERT, ask them to be part of the RWG, introduce the SWOT analysis methodology and compile some relevant information for completing it.

5.3. Finland – South-West Finland

5.3.1. Core group

The members of the Finish RWG core group are:

- Heilä Jyrki, Farmer.
- Fontell Hannamaija, Business - Large company.
- Berlin Titta, National public administration.
- Kulmala Airi, NGO.

5.3.2. RWG members

The Finish RWG accounts until November 2023 (the RWG will continue growing until the end of the project) 8 members, from which 6 belong to the private sector (3 are farmers, and 3 to large companies), 1 to the public sector (1 to the national public administration) and 1 to the civil society (1 to an NGO).

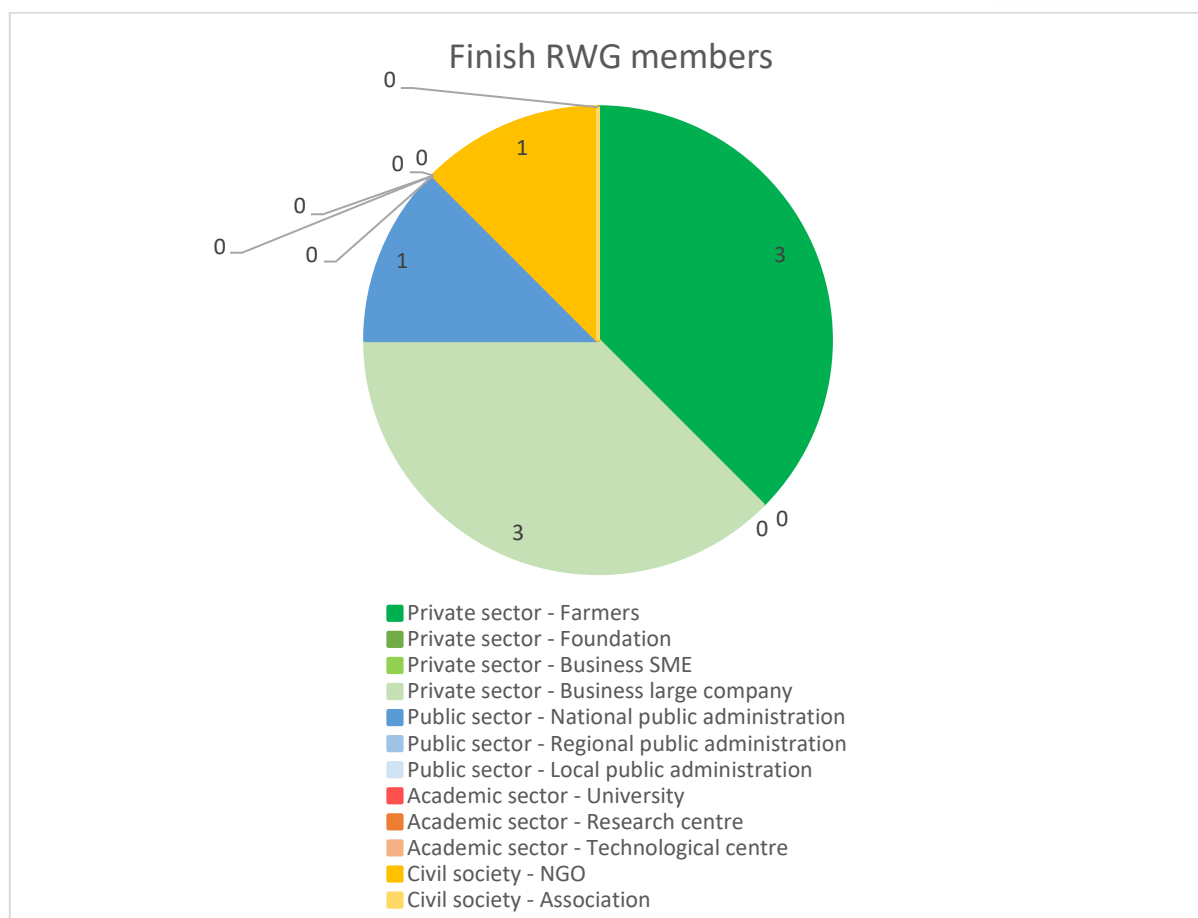


Figure 6. Composition of the Finish RWG by November, 2023

5.3.3. RWG meetings

The meetings held until November 2023 (the RWG will continue growing until the end of the project) are summarised below (the fiches reporting these events are further attached as annexes):

- June 20th, 2023 (7 attendees): meeting online with companies, ministerial advisers, farmers, etc. to disseminate the project, ask them to be part of the RWG and compile some relevant information for the SWOT analysis.
- Scheduled meeting for December 13th, 2023 (29 attendees are expected): meeting to be held in Vinkkilä, Finland to introduce NOVAFERT, ask the attendees to be part of the RWG and compile relevant info for the SWOT analysis.

5.4. Ireland – East Ireland

5.4.1. Core group

The members of the Irish RWG core group are:

- Aoife Egan, Research centre.
- Elizabeth O'Carroll, Research centre.
- Patrick Forrestal, Research centre.
- Mark Plunkett, Research centre.

5.4.2. RWG members

The Irish RWG accounts until November 2023 (the RWG will continue growing until the end of the project) 10 members, from which 2 belong to the private sector (2 are farmers), 7 to the academic sector (7 to research centres) and 1 to the civil society (1 to an association).

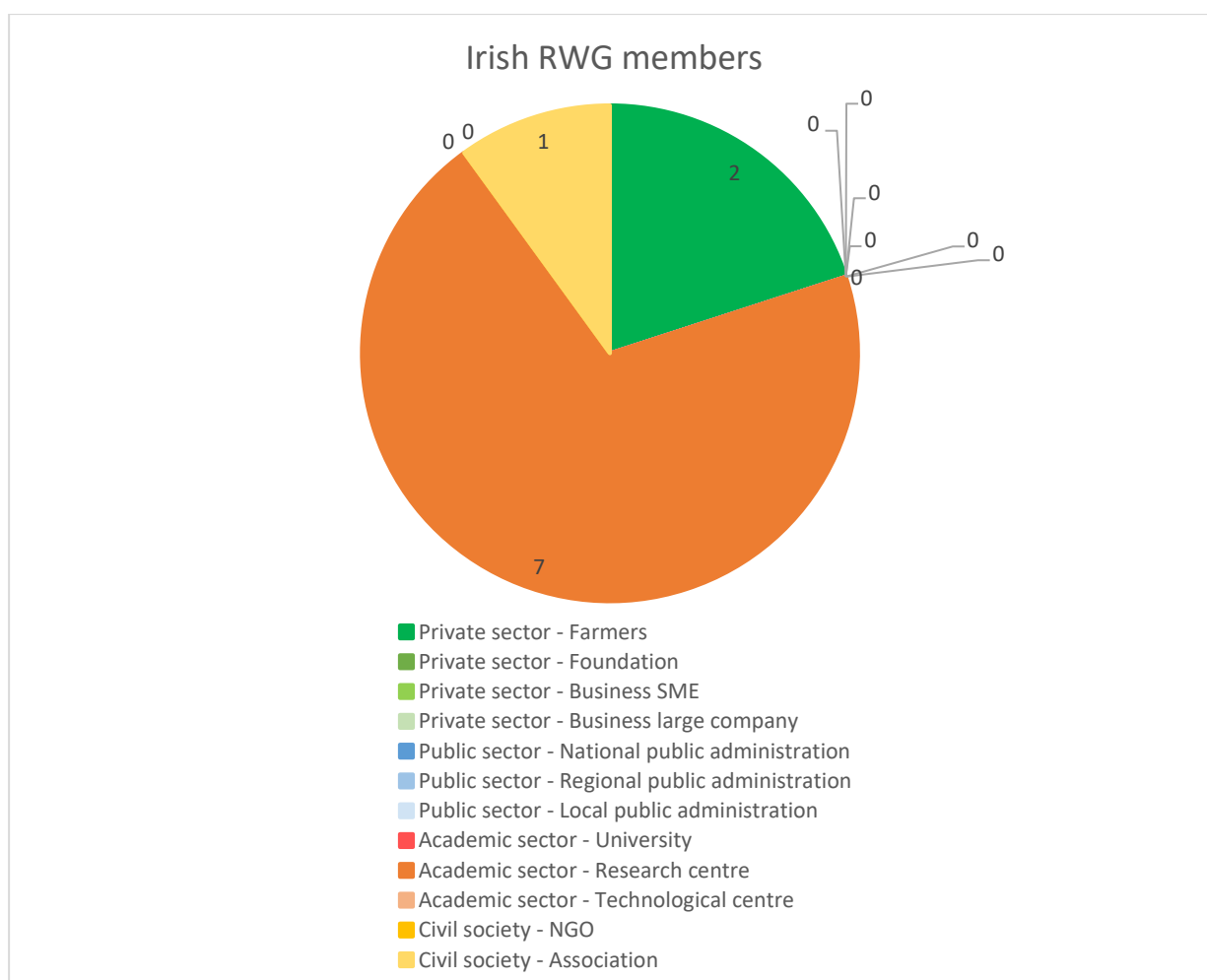


Figure 7. Composition of the Irish RWG by November, 2023



5.4.3. RWG meetings

The meetings held until November 2023 (the RWG will continue growing until the end of the project) are summarised below (the fiches reporting these events are further attached as annexes):

- November 10th, 2022 (26 attendees): meeting held in Wexford, Ireland to target people working within the industry giving agronomic advice and selling fertilisers to farmers, introduce the project and gather information on nutrient recovery technologies and products throughout the country.
- November 10th, 2022 (5 attendees): meeting held in Wexford, Ireland in the framework of a soil health open day part of a soil health conference, to promote the project and the RWG.
- March 20th, 2023 (4 attendees): meeting held in Down, Ireland with a company that refines broiler manure into a pelletised product to promote NOVAFERT and identify any areas where the project may be able support the business.
- April 25th, 2023 (8 attendees): meeting held in Wicklow, Ireland to welcome additional members to the group, introduce and update ongoing activities and visit two farmers which are using alternative fertilising products.

5.5. Poland – South-East Poland

5.5.1. Core group

The members of the Polish RWG core group are:

- Klara Ramm. National public administration.
- Dariusz Włóka, Business - SME.
- Dominika Szoldrowska, Research centre.

5.5.2. RWG members

The Polish RWG accounts until November 2023 (the RWG will continue growing until the end of the project) 12 members, from which 3 belong to the private sector (2 are farmers and 1 to an SME), 4 to the public sector (1 to the national public administration and 3 to regional administrations), 3 to the academic sector (2 to universities and 1 to a research centre) and 2 to the civil society (2 to NGOs).

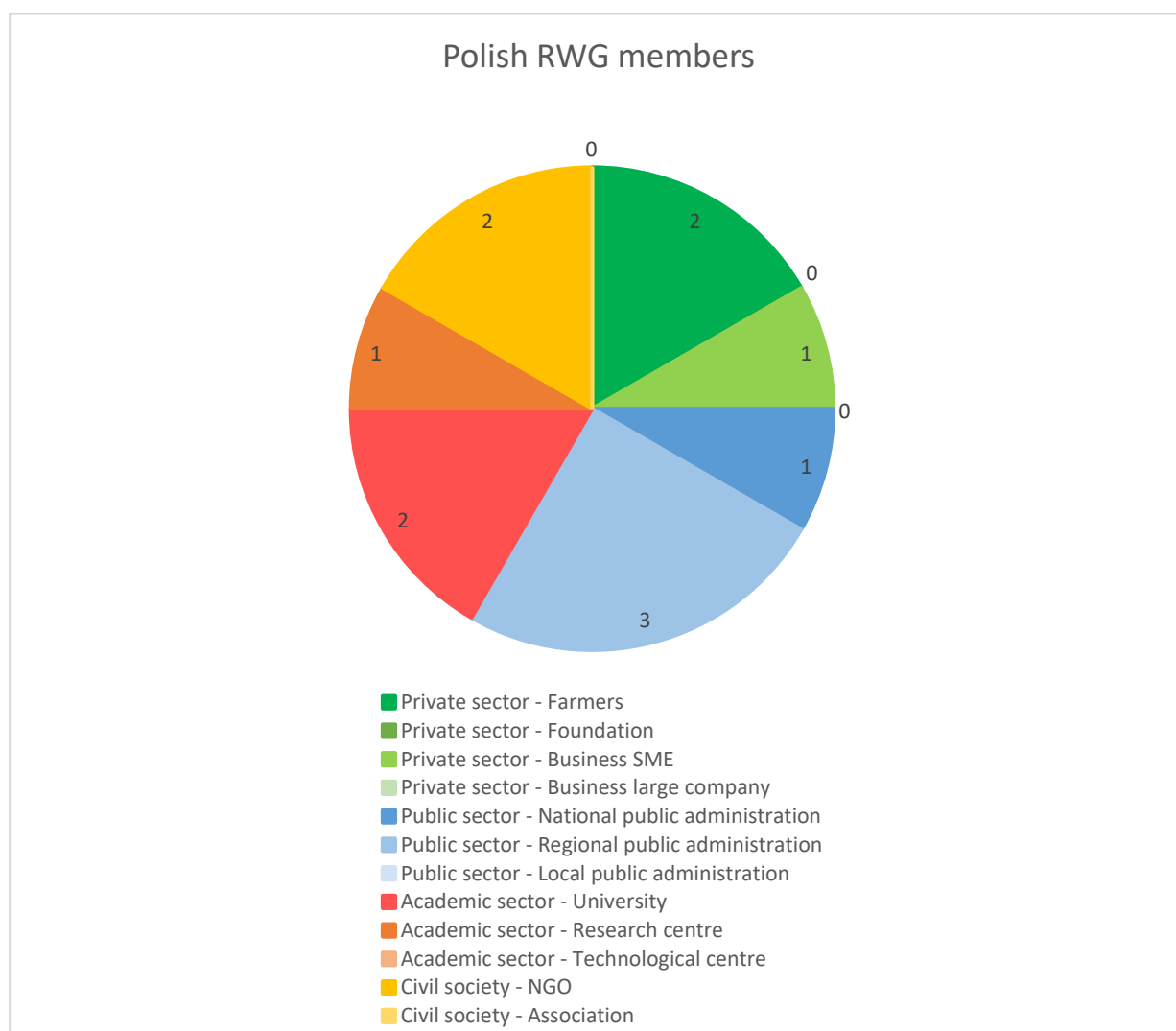


Figure 8. Composition of the Polish RWG by November, 2023

5.5.3. RWG meetings

The meetings held until November 2023 (the RWG will continue growing until the end of the project) are summarised below (the fiches reporting these events are further attached as annexes):

- July 6th, 2023 (8 attendees): meeting online with companies, researchers, etc. to disseminate the project, ask them to be part of the RWG and compile some relevant information for the SWOT analysis.
- October 31st, 2023 (2 attendees): meeting online with a researcher. to introduce NOVAFERT and compile some relevant information for the SWOT analysis.

5.6. Spain – Andalusia

5.6.1. Core group

The members of the Andalusian RWG core group are:

- José Manuel Braun Egler, Business - Large company.
- Antolín de Benito Romero, Business - SME.
- María Remedios Romero Aranda - Research centre.

5.6.2. RWG members

The Andalusian RWG accounts until November 2023 (the RWG will continue growing until the end of the project) 34 members, from which 24 belong to the private sector (2 to foundations, 8 to SMEs and 14 to large companies), 1 to the public sector (1 to the local public administration) and 9 to the academic sector (2 to universities, 6 to research centres and 1 to a technological centre).

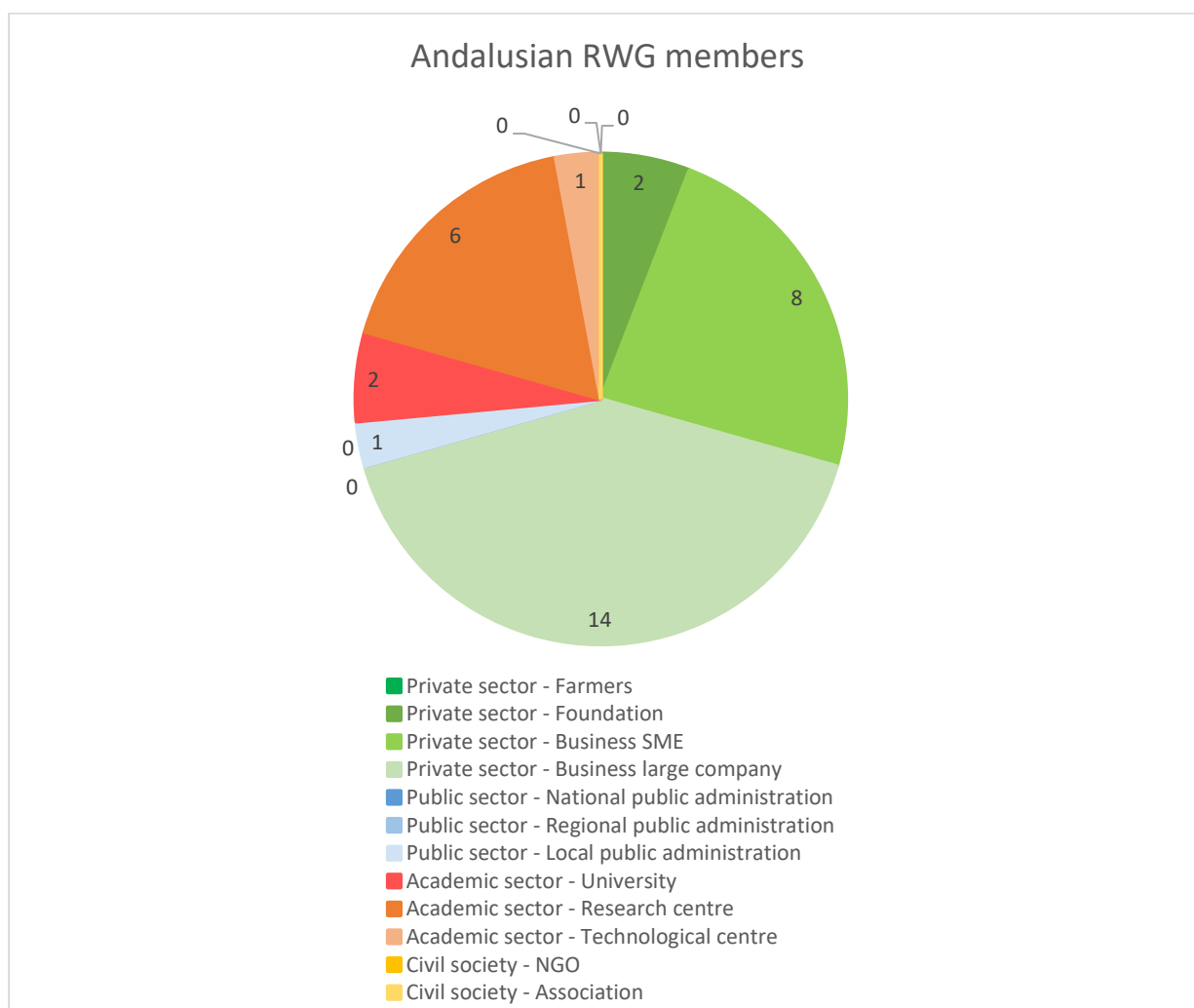


Figure 9. Composition of the Andalusian RWG by November, 2023

5.6.3. RWG meetings

The meetings held until November 2023 (the RWG will continue growing until the end of the project) are summarised below (the fiches reporting these events are further attached as annexes):

- May 24th, 2023 (39 attendees): meeting held in Vélez-Málaga, Spain in the framework of NOVAFERT project and in collaboration with another Horizon Europe project, P2Green, also devoted to the use of secondary raw materials to produce fertilisers, in Vélez-Málaga, Axarquía area with stakeholders from the water management and regeneration sector, as well as from the agronomic sector. During this event, the attendees have been able to provide relevant information at regional level on the main challenges and needs they face, what has been used for the preparation of the SWOT analysis.
- June 20th, 2023 (6 attendees): meeting online with CETENMA, the coordinator of FER-PLAY, NOVAFERT's sister project. CETENMA is located in Murcia, a neighbourhood region of Andalusia sharing similar problems and challenges. Possible synergies and potential joint activities between projects in which CETENMA and BIOAZUL are involved. Furthermore, preliminary results of the SWOT analysis were shared and discussed.
- June 20th, 2023 (2 attendees): meeting online with CEBAS-CSIC facilitated by our national partner EIT Food focused on the use of reclaimed water in agriculture. Preliminary results of the SWOT were shared and discussed.
- June 28th, 2023 (6 attendees): meeting online with IMIDA, the regional neighbour Murcian Institute for Agricultural and Environmental Research and Development to share information about the project, the preliminary results of the SWOT and the upcoming RWGs activities.
- July 20th, 2023 (5 attendees): meeting held in Cartagena, Spain with CETENMA, the coordinator of FER-PLAY, NOVAFERT's sister project. Additional results of the SWOT analysis were shared and discussed, together with cross-fertilisation regional activities between FER-PLAY and NOVAFERT projects.

5.7. Spain – Catalonia

5.7.1. Core group

The members of the Catalan RWG core group are:

- Ignasi Salaet, Business - Large company.
- Ricard Carreras, Technology centre.

- Carlos Ortiz, Regional public administration.
- Toni Desseuras, Business – SME.
- Ferran Soldevila, Business – SME.
- Sonia Bolos, Association.

5.7.2. RWG members

The Catalan RWG accounts until November 2023 (the RWG will continue growing until the end of the project) 42 members, from which 28 belong to the private sector (11 are farmers, 15 to SMEs and 2 to large companies), 9 to the public sector (9 to regional public administrations), 3 to the academic sector (2 to universities and 1 to a technological centre) and 2 to the civil society (2 to associations).

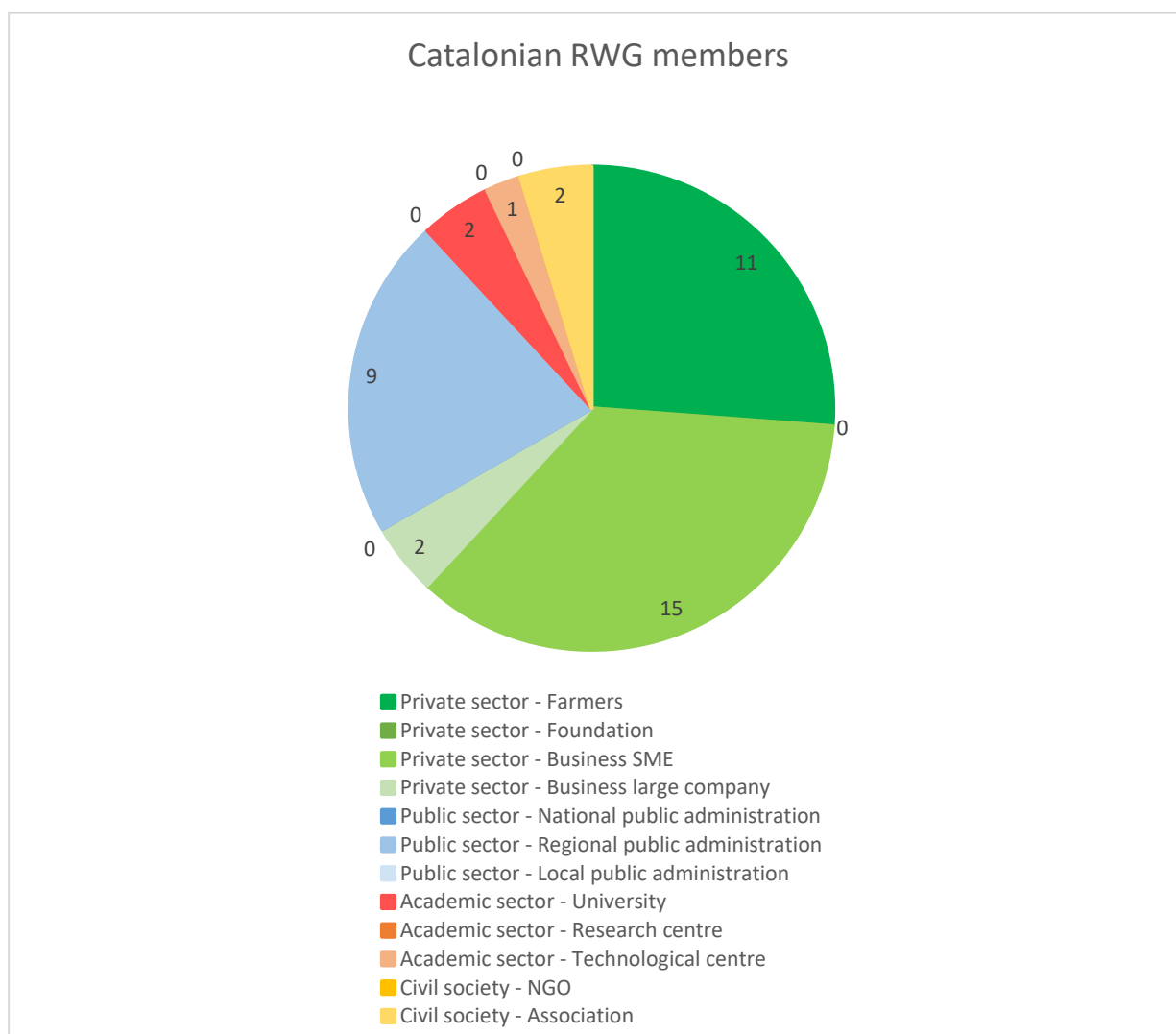


Figure 10. Composition of the Catalanian RWG by November, 2023

5.7.3. RWG meetings

The meetings held until November 2023 (the RWG will continue growing until the end of the project) are summarised below (the fiches reporting these events are further attached as annexes):

- May 30th, 2023 (5 attendees): meeting online with the board of sustainable livestock management in the region, a fertilisers production company and private entrepreneurs in the areas of livestock and waste management to share information about the project and several upcoming activities, like the SWOT analysis preparation.
- June 16th, 2023 (3 attendees): meeting online with the ItaCyL group on Bio economy in the agrifood sector facilitated by our national partner EIT Food focused on the fertilising product resulting from the project LIFE Green Ammonia, their insights about the technology and the difficulties they have faced. Preliminary results of the SWOT were shared and discussed.
- June 19th, 2023 (2 attendees): meeting online with the Chemistry Department of ETSIAAB (UPM, Madrid) facilitated by our national partner EIT Food focused on the impacts of nitrogen fertilisation, specially related to GHG emissions.. Preliminary results of the SWOT were shared and discussed.
- October 18th, 2023 (49 attendees): meeting held in Vic, Spain in the framework PATT Conference on new bio fertiliser products recovered from livestock manure. The aim was to discuss about technical considerations and regulatory framework of biofertilisers made from nutrients recovered from livestock manure. The event brought together various actors interested in the valorisation of livestock manure to show some of the latest advances obtained in European projects underway in this field, as NOVAFERT and FERTIMANURE. During this event, preliminary results of the SWOT analysis were shared and discussed.

ANNEXES



ANNEX 1. Information and consent form template





Information and consent form for stakeholders to join the Regional Working Groups

1. Information about the project

NOVAFERT is a project funded by the EU, running from September 1st, 2022 until August 31st, 2025. It aims to demonstrate the technical, economic, and environmental feasibility and safe use of a wide portfolio of at least 25 alternative fertilising products, containing recovered nutrients from 6 different waste streams, with the goal of facilitating the replacement of synthetic and mineral fertilisers.

More info available at www.novafert.eu.

2. Regional Working Groups

You are invited to participate in the Regional Working Group (RWG) organised by [NAME OF THE PARTNER] in the framework of the NOVAFERT project. Please take the time to read this information letter carefully before you decide to take part in this activity. Do not hesitate to ask questions if there are any ambiguities or if you would need additional information. Once you have decided to participate, please sign the consent form on the last page.

2.1. What is the purpose of the Regional Working Groups?

The RWGs are aimed at engaging stakeholders from the NOVAFERT target regions and create a broader Community of Practice for the use of alternative fertilisers. The [NAME OF THE REGION] RWG will target the [INCLUDE THE MAIN SECONDARY MATERIALS], and it will be coordinated by [NAME OF THE PARTNER], which acts as regional representative of the NOVAFERT consortium.

The expected objectives and outcomes of the RWG are the following:

- Provide practical recommendations to develop Region Specific Action Plans.
- Be engaged in the implementation of alternative fertilising solutions.
- Seek opportunities to perform cooperative activities.
- Create a permanent cluster in the region to adopt and disseminate alternative fertilising products.

At least 4 meetings (face-to-face or online) will be organised for the RWG members. Furthermore, 3 participatory workshops will be organised in the region, being expected the participation of the RWG members, as well as of other relevant stakeholders of the region.

2.2. Participation in the Regional Working Group

Your participation in the RWG is completely voluntary and there can be no coercion in any way. You may withdraw from it at any time without having to provide a reason.

3. Information about Privacy and Personal Data

The legal framework for the processing of personal data and confidential information in the context of the Regional Working Group is defined by:

- The European General Data Protection Regulation 2016/679 of April 27, 2016, in force since May 25, 2018 (the GDPR).
- **[INCLUDE THE REFERENCE TO NATIONAL LAW PROTECTION DATA IN YOUR COUNTRY].**

3.1. Which kind of data are collected?

The following main personal data will be processed:

- Name and surname.
- Position.
- Affiliation.
- E-mail address.
- Major sector/s of expertise.

Personal data will be collected via surveys, interviews, audio and video recordings of meetings and workshops.

3.2. Why are these personal data collected?

Your personal data will be used for the project purposes only, as described in the section above. Specifically, they will be used to facilitate the activities of the RWG and to inform you on the project updates.

They will also serve to identify the key experts at the different levels of the value chain which can provide their expertise and favour the knowledge exchange about the emerging opportunities, as well as the environmental and socio-economic impacts related to the use of locally or regionally available fertilising products recycled from raw materials.

3.3. What is the legal ground for processing personal data in the Regional Working Group?

For the processing of your personal data, your explicit permission will be asked via the 'consent form'. This consent can be withdrawn at any time by notifying the facilitator of your RWG, **[NAME OF THE PARTNER]**.

3.4. Who has access to my (personal) data?

As facilitator of the RWG, [NAME OF THE PARTNER] will have access to your personal data with the purpose of organising the RWG activities. NOVAFERT project partners can also have access to your personal data for other project purposes (i.e., the preparation of deliverables or other kinds of reports). Data will be kept in the NOVAFERT protected SharePoint until the end of the project. Data will be treated in the strictest confidence, and information will not be reported or published in such a way that individual respondents can be identified.

3.5. Reuse of data

The collected data may also be useful and thus reused later for other research projects, by other researchers within Europe. To this end, all the necessary measures will be taken to guarantee the confidentiality of your personal data [TO BE DISCUSSED WITH OTHER PARTNERS].

3.6. What rights do you have as a participant with regards to the processing of your personal data?

In accordance with European and [INCLUDE THE REFERENCE TO YOUR COUNTRY LEGISLATION], your personal privacy is respected. As already indicated, you may withdraw your consent at any time without giving any reason. This means that your data will not be processed any further from the moment of withdrawal. You have the right to consult the data which have been collected about you and you may also request a copy, as long as this does not violate the rights and freedoms of others. Any incorrect data about you can be corrected at your request. Moreover, you have the right to be forgotten; this means that, after withdrawing your permission, you can ask to have your personal data removed.

3.7. How can I file a complaint?

If you want to file a complaint about the way your personal data are handled or if you have any questions regarding your personal data, please contact [NAME OF THE RESPONSIBLE PERSON AT COUNTRY LEVEL] and/or Margherita Genua / Katrien Windels / Nimisha Edayilam.

CONSENT FORM

A. Consent for participation in the Regional Working Group

Please check the appropriate box	YES	NO
I voluntarily participate in the Regional Working Group and give permission to the facilitator to process, store, analyse and report on my data.	<input type="radio"/>	<input type="radio"/>
I know that I may withdraw from the Regional Working Group at any time without giving a reason for this decision and without it affecting in any way my continued relationship with the facilitator.	<input type="radio"/>	<input type="radio"/>
I have read the information sheet and have received sufficient explanation of the nature, purpose, duration, and expected outcomes of the project. I was given the opportunity to ask questions and I received satisfactory answers to all my questions.	<input type="radio"/>	<input type="radio"/>

B. Consent for the processing of personal data

Please check the appropriate box	YES	NO
I have read the information form and I know that I have rights to safeguard my privacy (including access, correction, deletion) and to whom I should turn to exercise these rights.	<input type="radio"/>	<input type="radio"/>
I give permission to the Regional Working Group facilitators and the NOVAFERT project partners to collect, process and store (personal) data from me for the purposes of the project.	<input type="radio"/>	<input type="radio"/>
[IF APPLICABLE] I give permission to be included recognisably in publications [BE SPECIFIC] as part of the project.	<input type="radio"/>	<input type="radio"/>

C. Consent about the reuse and sharing of data

Please check the appropriate box	YES	NO
I give permission for my data to be reused for further research or follow up actions beyond the scope of the current project.	<input type="radio"/>	<input type="radio"/>

I give permission to share my data for further research or follow up actions. In doing so, all necessary measures will be taken to protect the confidentiality of my personal data.	o	o
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Name of the participant:
Date:
Signature:

ANNEX 2. Lists of Regional Working Groups members (by November, 2023)



RWG members for Flanders region, Belgium

The members of the Flemish RWG are until November 2023 (the RWG will continue growing until the end of the project):

Type of stakeholder	Sector	Source of information	Link / reference / short description of the source from which the name of the stakeholder has been extracted	Is the source of information related to any... ...EU project? ...national project? ...regional project? ...none of them?	Link / reference / name of the project (if applicable)	Surname	Name	Entity	Position	Location
Farmers	Private sector	Regional platform	Nutricycle Vlaanderen	Regional project	Nutricycle Vlaanderen	Heirbaut	Kris	Farmer	Farmer	Veldstraat 218, 9140 Temse
Farmers	Private sector	Network of contacts	Fertimanure	EU project	Fertimanure	D'hondt	Frédérique	Farmer	Farmer	Grote Stadenstraat 9, 8830 Hooglede
Farmers	Private sector	Regional platform	Nutricycle Vlaanderen	Regional project	Nutricycle Vlaanderen	Lafaut	Lieven	Farmer	Farmer	Sint-Amandsstraat, 8740 Pittem
Research centre	Private sector	Network of contacts	Inagro	Regional project	Nutricycle Vlaanderen	Vandendriessche	Sander	Research Institution	Researcher	Ghent, Rumbeke-

										Beitem, BELGIUM
Business - SME	Private sector	Network of contacts	DLV	Regional project	Nutricycle Vlaanderen	Bamelis	Lies	Consultancy	Director	
Foundation	Private sector	Network of contacts	Boerenbon d	Regional project	Nutricycle Vlaanderen	Vandycke	Eddy	Farmers' Union	Director	Diestsevest 40, 3000 Leuven
Foundation	Private sector	Network of contacts	Boerenbon d	Regional project	Nutricycle Vlaanderen	Roels	Jana	Farmers' Union	Researcher	Diestsevest 40, 3000 Leuven
National public administrati on	Public sector	Network of contacts	Nutricycle Vlaanderen	Regional project	Nutricycle Vlaanderen	Debonne	Marian	Departeme nt Landbouw en Visserij	Researcher	
Foundation	Private sector	Network of contacts	ABS	Regional project	Nutricycle Vlaanderen	Wulfrancke	Mark	Farmers' Union	Director	
Research centre	Private sector	Network of contacts	VCM	Regional project	Nutricycle Vlaanderen	De Meester	Mattie	Research Institution	Researcher	
Business - Large company	Private sector	Network of contacts	Aquaflin NV	EU project	Walnut	Dockx	Lennert	Industry	Researcher	Dijkstraat 8, 2630 Aartselaar
Business - SME	Private sector	Network of contacts	Bio Sterco	Regional project	Nutricycle Vlaanderen	D'hondt	Johan	Company		Grote Stadenstraa t 9, 8830 Hooglede
Farmers	Private sector	Network of contacts	IVACO	National project	BIODEN	Decloedt	Carine	Farmer	Farmer	Gistel- Zevokote

Farmers	Private sector	Network of contacts	NV De Zwanebloem	Regional project	Nutricycle Vlaanderen	Masscheley n	Wannes	Farmer	Farmer	NV De Zwanebloem
Foundation	Private sector	Network of contacts	Boerenbond	Regional project	Nutricycle Vlaanderen	Steenweghen	Emma Van	Farmers' Union	Researcher	Diestsevest 40, 3000 Leuven

RWG members for Continental Croatia region

The members of the Croatian RWG are until November 2023 (the RWG will continue growing until the end of the project):

Type of stakeholder	Sector	Source of information	Link / reference / short description of the source from which the name of the stakeholder has been extracted	Is the source of information related to any... ...EU project? ...national project? ...regional project? ...none of them?	Link / reference / name of the project (if applicable)	Surname	Name	Entity	Position	Location
University	Academic sector	Network of contacts		Not applicable		Jukić	Željko	University of Zagreb, Faculty of Agriculture	Full time professor	Zagreb
University	Academic sector	Network of contacts		Not applicable		Čoga	Lepomir	University of Zagreb,	full time professor in a	Zagreb

								Faculty of Agriculture	permanent position	
University	Academic sector	Regional operational group	Link	National project	The possibility of using digestate from the biogas plant as a fertiliser and soil improvement	Kvaternjak	Ivka	Križevci University of Applied Sciences	professor	Križevci
University	Academic sector	Professional contacts via desk research		Not applicable		Petrović	Sonja	Faculty of Agrobiotechnical Sciences Osijek	professor	Osijek
NGO	Civil society	Network of contacts		Not applicable		Pokrovac	Maja	Obnovljivi izvori energije Hrvatska	director	Zagreb
Farmers	Civil society	Professional contacts via desk research		Not applicable		Mesić Tuškanec	Marija	OPG Marija Mesić Tuškanec	director	Sisak
Farmers	Private sector	Professional contacts via desk research		Not applicable		Cenger	Dario	OPG Dario Cenger	director	Grubišno Polje

Farmers	Civil society	Professional contacts via desk research		Not applicable		Pejić	Marko	OPG Marko Pejić	director	Ježdovec
Business - SME	Private sector	Professional contacts via desk research		Not applicable		Cenger	Dario	ECODIG	director	Grubišno Polje
Business - SME	Private sector	Professional contacts via desk research		Not applicable				VINKA PLUS d.o.o.		Vinkovci
Business - SME	Private sector	Professional contacts via desk research		Not applicable				EkoAgro.club		Zagreb
Business - SME	Private sector	Professional contacts via desk research		Not applicable		List	Marko	ConsultAre	director	Vrbovec
Business - SME	Private sector	Professional contacts via desk research		Not applicable				TIMAC AGRO		Zagreb
Business - SME	Private sector	Professional contacts via desk research		Not applicable		Granulo	Esad	VITA KEMIJA	director	Zadar
Business - SME	Private sector	Professional contacts via		Not applicable		Kopjar	Robert	PRO-ECO	director	Novi Marof

		desk research								
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RWG members for South-West Finland region

The members of the Finish RWG are until November 2023 (the RWG will continue growing until the end of the project):

Type of stakeholder	Sector	Source of information	Link / reference / short description of the source from which the name of the stakeholder has been extracted	Is the source of information related to any... ...EU project? ...national project? ...regional project? ...none of them?	Link / reference / name of the project (if applicable)	Surname	Name	Entity	Position	Location
Farmers	Private sector	Network of contacts		Not applicable		Heilä	Jyrki			Vehmaa
Farmers	Private sector	Network of contacts		Not applicable		Joona	Juuso			Joutseno
Business - Large company	Private sector	National platform		Not applicable		Fontell	Hannamaija		director	Kauttua
Business - Large company	Private sector	National platform		Not applicable		Seppänen	Mervi			Helsinki

National public administration	Public sector	National platform		Not applicable		Berlin	Titta			Helsinki
NGO	Private sector	National platform		Not applicable		Kulmala	Airi			Helsinki
Farmers	Private sector	Network of contacts		Not applicable		Heikkinen	Pekka			Lielähti
Business - Large company	Private sector	Network of contacts		Not applicable		Lahti	Tapio			

RWG members for East Ireland region

The members of the Irish RWG are until November 2023 (the RWG will continue growing until the end of the project):

Type of stakeholder	Sector	Source of information	Link / reference / short description of the source from which the name of the stakeholder has been extracted	Is the source of information related to any... ...EU project? ...national project? ...regional project? ...none of them?	Link / reference / name of the project (if applicable)	Surname	Name	Entity	Position	Location
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Research centre	Public sector	Network of contacts	Attendance to RWG organised by NOVAFERT	EU project	https://www.nutri-know.eu/	Egan	Aoife	Teagasc	Research officer	Wexford
Research centre	Public sector	Network of contacts	Attendance to RWG organised by NOVAFERT	EU project	https://www.nutri2cycle.eu/	O'Carroll	Elizabeth	Teagasc	Research officer	Wexford
Research centre	Public sector	Network of contacts	Attendance to RWG organised by NOVAFERT	Not applicable		Forrestal	Patrick	Teagasc	Senior research officer	Wexford
Research centre	Public sector	Network of contacts	Attendance to RWG organised by NOVAFERT	Not applicable		Plunkett	Mark	Teagasc	Specialist	Wexford
Research centre	Public sector	Network of contacts	Attendance to RWG organised by NOVAFERT	Not applicable		Bourke	Martin	Teagasc	Specialist	Wicklow
Farmers	Private sector	Network of contacts	Attendance to RWG organised by NOVAFERT	Not applicable		Bourke	Sylvester		Farmer	Wicklow

Farmers	Private sector	Network of contacts	Attendance to RWG organised by NOVAFERT	Not applicable		Fitzerald	Stuart		Farmer	Wicklow
Association	Civil society	Network of contacts	Attendance to RWG organised by NOVAFERT	EU project	https://www.nutri-know.eu/	Meredith	Stephen	Irish organic association	Senior policy officer	Ireland
Research centre	Public sector	Network of contacts	Attendance to RWG organised by NOVAFERT	National project	Low Farm N	Coonan	Daniel	Teagasc	Research student	Wexford
Research centre	Public sector	Network of contacts	Attendance to RWG organised by NOVAFERT	EU project	https://nutri-checknet.eu/events/	Redmond	Cathal	Teagasc	Research officer	Wexford

RWG members for South-East Poland region

The members of the Polish RWG are until November 2023 (the RWG will continue growing until the end of the project):

Type of stakeholder	Sector	Source of information	Link / reference / short description of the source	Is the source of information related to any... EU	Link / reference / name of the project (if applicable)	Surname	Name	Entity	Position	Location
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			from which the name of the stakeholder has been extracted	project? ...national project? ...regional project? ...none of them?						
National public administrati on	Public sector	Network of contacts		Not applicable		Ramm	Klara	Polish Waterworks Chamber of Commerce / EurEua	Expert	Bydgoszcz, Poland
Business - SME	Private sector	Network of contacts		Not applicable		Włóka	Dariusz	GreenBack Ltd.	Co-founder & R&D Director	Kłobuck, Poland
NGO	Civil society	Network of contacts		Not applicable		Aruszanjan	Erik	Optimus Foundation	Chairman of the board	Krakow, Poland
University	Academic sector	Network of contacts		Not applicable		Dziedzic	Jadwiga	AGH Univerity of Krakow	PhD student	Krakow, Poland
Research centre	Public sector	Network of contacts		Not applicable		Szołdrowsk a	Dominika	Research Centre	Research Assistant	Krakow, Poland
Farmers	Private sector	Network of contacts		Not applicable		Smol	Rafał	Farmer	Farmer	Olszyna, Polnad
Regional public administrati on	Public sector	Network of contacts		Not applicable		Czaja	Łukasz	Herby Water Treatment Plant - Lisów Wastewater	Engineer	Lisów, Poland

								treatment Plant		
University	Academic sector	Network of contacts		Not applicable		Oczkowicz	Paulina	AGH Univerity of Krakow	Research Assistant & Farmer	Krakow, Poland
Farmers	Public sector	Network of contacts		Not applicable		Kwiecień	Agnieszka	Farmer	Farmer	Tocholow, Poland
NGO	Civil society	Network of contacts		Not applicable		Szleder	Jakub	NGO	Volunteer	Miechow, Poland
Regional public administration	Public sector	Network of contacts		Not applicable		Szych	Dawid	Eko-tucz	Manager	Ksiaz Wielki, Poland
Regional public administration	Public sector	Professional contacts via desk research		Not applicable		Pyś	Dominika	Municipal Water and Sewerage Company in Rzeszów	Head of the Environmental Protection Department	Rzeszów, Poland

RWG members for Andalusia region, Spain

The members of the Andalusian RWG are until November 2023 (the RWG will continue growing until the end of the project):

Type of stakeholder	Sector	Source of information	Link / reference / short description of the source from which the name of the stakeholder has been extracted	Is the source of information related to any...	Link / reference / name of the project (if	Surname	Name	Entity	Position	Location
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				...EU project? ...national project? ...regional project? ...none of them?	applicabl e)					
Business - Large company	Private sector	Network of contacts	Attendance to the regional event organised by NOVAFERT and P2GreeN projects in Vélez-Málaga, Axarquía area, within the Andalusian region https://www.NOVAFERT.eu/the-first-regional-working-group-organised-in-andalusia/	EU project	P2Green	Azpiroz	Julen	TROPS	Computing engineer	Velez-Malaga
Business - Large company	Private sector	Network of contacts	Attendance to the regional event organised by NOVAFERT and P2GreeN projects in Vélez-Málaga, Axarquía area, within the Andalusian region https://www.NOVAFERT.eu/the-first-regional-working-group-organised-in-andalusia/	EU project	P2Green	Moreno Abadía	Hernan Andrés	TROPS	Intern	Velez-Malaga
Business - Large company	Private sector	Network of contacts	Attendance to the regional event organised by NOVAFERT	EU project	P2Green	Fernández Gómez	Jaime	TROPS	Intern	Velez-Malaga

			and P2GreeN projects in Vélez-Málaga, Axarquía area, within the Andalusian region https://www.NOVAFERT.eu/the-first-regional-working-group-organised-in-andalusia/							
Business - Large company	Private sector	Network of contacts	Attendance to the regional event organised by NOVAFERT and P2GreeN projects in Vélez-Málaga, Axarquía area, within the Andalusian region https://www.NOVAFERT.eu/the-first-regional-working-group-organised-in-andalusia/	EU project	P2Green	Guirado Moreno	Javier	TROPS	Auditor	Velez-Malaga
Business - Large company	Private sector	Network of contacts	Attendance to the regional event organised by NOVAFERT and P2GreeN projects in Vélez-Málaga, Axarquía area, within the Andalusian region https://www.NOVAFERT.eu/the-first-regional-working-group-organised-in-andalusia/	EU project	P2Green	Santamaría Ortega	José	TROPS		Velez-Malaga
Business - Large company	Private sector	Network of contacts	Attendance to the regional event organised by NOVAFERT	EU project	P2Green	Sánchez Requena	Lucas	TROPS	Agricultural engineer	Velez-Malaga

			and P2GreeN projects in Vélez-Málaga, Axarquía area, within the Andalusian region https://www.NOVAFERT.eu/the-first-regional-working-group-organised-in-andalusia/							
Business - Large company	Private sector	Network of contacts	Attendance to the regional event organised by NOVAFERT and P2GreeN projects in Vélez-Málaga, Axarquía area, within the Andalusian region https://www.NOVAFERT.eu/the-first-regional-working-group-organised-in-andalusia/	EU project	P2Green	Westendo rp	Nieves	TROPS	Consultant for food safety systems	Velez-Malaga
Business - Large company	Private sector	Network of contacts	Attendance to the regional event organised by NOVAFERT and P2GreeN projects in Vélez-Málaga, Axarquía area, within the Andalusian region https://www.NOVAFERT.eu/the-first-regional-working-group-organised-in-andalusia/	EU project	P2Green	Paterna Titos	Sherezade María	TROPS	Agricultural technician	Velez-Malaga
Business - Large company	Private sector	Network of contacts	Attendance to the regional event organised by NOVAFERT	EU project	P2Green	Mesa Martín	Adrián	TROPS	Agricultural engineer	Velez-Malaga

			and P2GreeN projects in Vélez-Málaga, Axarquía area, within the Andalusian region https://www.NOVAFERT.eu/the-first-regional-working-group-organised-in-andalusia/							
Business - Large company	Private sector	Network of contacts	Collaboration in P2Green project	EU project	P2Green	López Rodríguez	Mercedes	TROPS	Quality and food safety technician	Velez-Malaga
Business - Large company	Private sector	Network of contacts	Collaboration in P2Green project	EU project	P2Green	Braun Egler	José Manuel	TROPS	Managing Board Member	Velez-Malaga
Foundation	Private sector	Network of contacts	Collaboration in P2Green project	EU project	P2Green	Gallardo Carrero	Ángel	CETAQUA Andalucía	Project Manager	Malaga
Foundation	Private sector	Network of contacts	Collaboration in P2Green project	EU project	P2Green	Gutiérrez Díez	Enrique	CETAQUA Andalucía	Manager	Malaga
Business - SME	Private sector	Network of contacts	Collaboration in RichWater project	EU project	RichWater	de Benito Romero	Antolín	AXARAGU A	Manager	Torre del Mar
Business - SME	Private sector	Network of contacts	Collaboration in RichWater project	EU project	RichWater	Peña Moreno	Raúl	AXARAGU A	Executive board member	Torre del Mar
Business - SME	Private sector	Network of contacts	Collaboration in RichWater project	EU project	RichWater	Campos Marfil	Gregorio Antonio	AXARAGU A	Vice-president	Torre del Mar
Business - SME	Private sector	Other sectorial event	Attendance to the regional event organised by NOVAFERT	Not applicable		Turégano Audije	Susana	Ergofito Iberica	Co-founder and CEO	Caceres

			and P2GreeN projects in Vélez-Málaga, Axarquía area, within the Andalusian region https://www.NOVAFERT.eu/the-first-regional-working-group-organised-in-andalusia/							
Business - SME	Private sector	Other sectorial event	Attendance to the regional event organised by NOVAFERT and P2GreeN projects in Vélez-Málaga, Axarquía area, within the Andalusian region https://www.NOVAFERT.eu/the-first-regional-working-group-organised-in-andalusia/	Not applicable		Montes Plaza	Enrique	Ergofito Iberica	Sales director	Caceres
Business - SME	Private sector	Network of contacts	Collaboration in P2Green project	EU project	P2Green	Moreno Fortes	Antonio	AgriSmart data	CEO	Velez-Malaga
Research centre	Public sector	Network of contacts	Collaboration in RichWater project	EU project	RichWater	Llamas Sánchez	Francisco José	IHSM-La Mayora	Technician	Algarrobo
Research centre	Public sector	Network of contacts	Collaboration in RichWater project	EU project	RichWater	Romero Aranda	María Remedios	IHSM-La Mayora	Senior Scientist	Algarrobo
Research centre	Public sector	Network of contacts	Collaboration in RichWater project	EU project	RichWater	Hormaza Urroz	Iñaki	IHSM-La Mayora	Research Professor	Algarrobo
Research centre	Public sector	Network of contacts	Collaboration in RichWater project	EU project	RichWater	Cordón Peñalver	Antonio	IHSM-La Mayora	Manager	Algarrobo

Local public administration	Public sector	Regional cluster	Collaboration in RichWater project	EU project	RichWater	Gil Segovia	José Manuel	Algarrobo irrigation community	Member	Algarrobo
Business - SME	Private sector	Professional contacts via desk research	Attendance to the regional event organised by NOVAFERT and P2GreeN projects in Vélez-Málaga, Axarquía area, within the Andalusian region https://www.NOVAFERT.eu/the-first-regional-working-group-organised-in-andalusia/	Not applicable		Recio Ferrer	Fernando	REALIMA Ingenieria Ambiental	CEO	Sevilla
Business - Large company	Private sector	Other sectorial event	Attendance to the regional event organised by NOVAFERT and P2GreeN projects in Vélez-Málaga, Axarquía area, within the Andalusian region https://www.NOVAFERT.eu/the-first-regional-working-group-organised-in-andalusia/	Not applicable		Martín Arroyo	Manuel	Agbar Agriculture	Marketing manager	Cordoba
Business - Large company	Private sector	Other sectorial event	Attendance to the regional event organised by NOVAFERT and P2GreeN projects in Vélez-Málaga, Axarquía area, within the Andalusian region	Not applicable		Pérez Ortolá	Marta	Agbar Agriculture	Sustainability and biodiversity manager	Cordoba

			https://www.NOVAFERT.eu/the-first-regional-working-group-organised-in-andalusia/							
Business - Large company	Private sector	Other sectorial event	Attendance to the regional event organised by NOVAFERT and P2GreeN projects in Vélez-Málaga, Axarquía area, within the Andalusian region https://www.NOVAFERT.eu/the-first-regional-working-group-organised-in-andalusia/	Not applicable		Farré Solsona	Carmen	Agbar Veolia Espana		
University	Public sector	Network of contacts	BIOAZUL collaborator	EU project	UrBAN-WASTE	De Luca	Claudia	Bologne University	Project manager	Bologne
University	Public sector	Network of contacts	BIOAZUL collaborator	EU project	EIT-FOOD RIS Fellowships	Gualtieri	Ruggero	Bologne University	Intern	Bologne
Business - SME	Private sector	Network of contacts	Collaboration in TURaS project via Promalaga, a public-private company part of the Malaga City Council that works to encourage the creation of new companies by offering support, advice, training, subsidies and a network of 13 incubators	EU project	TURaS	Morán Prados	Mariano	INNOVA IRV	Chief Technical Officer	Malaga

			https://www.promalaga.es/							
Technology centre	Private sector	Network of contacts	Coordinators of FER-PLAY project, the sister project of NOVAFERT	EU project	FER-PLAY	Lara Guillén	Andrés Jesús	CETENMA, Technology Centre for Energy and the Environment	Environmental Area R&D&I Responsible	Cartagena
Research centre	Public sector	Network of contacts	BIOAZUL collaborator	Not applicable		Contreras López	Fulgencio	IMIDA, Murcian Institute for Agricultural and Environmental Research and Development	Technician of the Research Results Transfer Office (OTRI) for the Sustainability and Fruit and Vegetable Quality Team	La Alberca
Research centre	Public sector	Network of contacts	EIT Food member	Not applicable		De Toro Jordano	María Dolores	Campus de Excelencia Internacional Agroalimentario (ceiA3)	Director - Manager	Seville

RWG members for Catalonia region, Spain

The members of the Catalan RWG are until November 2023 (the RWG will continue growing until the end of the project):

Type of stakeholder	Entity	Sector	Source of information	Link / reference / short description of the source from which the name of the stakeholder has been extracted	Is the source of information related to any... ...EU project? ...national project? ...regional project? ...none of them?	Link / reference / name of the project (if applicable)	Surname	E-mail address	Position	Location	Comment
Business - Large company	Private sector	Network of contacts	The Fertiliser company is located in a region near by and has a long history of collaboration with BETA tech center. For instance it is partner in other projects led by BETA such as Fertimanure, working on	Not applicable		Salaet	Ignasi	FERTINA GRO	Responsable d'R+D+i	Aragón	Fertiliser company investing in organic fertilisers

			valorisation of manure								
Technology centre	Academic sector	Regional cluster	BETA collaborator as Head of transfer, business and territory	Not applicable		Carreras	Ricard	Table for the sustainable management of livestock in Osona	Coordinator of the Table	Vic	
Regional public administration	Public sector	Regional cluster	Collaboration with the department in many projects, operational groups and regional activities	Not applicable		Ortiz	Carlos	DACC: Departament d'Acció Climàtica, Alimentació i Agenda Rural	Responsible for Fertilisation and Management of Organic Matter	Lleida	Regional Department of Climate Action
Business - SME	Private sector	Network of contacts	Belong to the network of contacts from Regional front runners regarding organic waste treatment	Not applicable		Desseuras	Toni	Deseuras	Gerent	Sant Bartomeu del Grau	Only 10% of their feedstock is manure
Business - SME	Private sector	Network of contacts	Link made via the transfer, business and territory unit from BETA, as	Not applicable	www.sunchemicals.eu	Soldevila	Ferran	Sun Chemicals	CEO	Vic	Regulatory Specialist

			many companies we work with requested us aid to help them in the decision making of the treatment of the digestate of the plant considering current legislation								
Association	Civil society	Regional platform	Previous collaborations in Operational Groups from Catalonia	Not applicable	-	Bolos	Sonia	FECAC (Federación de cooperativas agrarias de Cataluña)	Responsible for research and innovation projects	Barcelona	
Farmers	Private sector	Network of contacts	Link made via the transfer, business and territory unit from BETA	Not applicable		Jove	jordi	Alcarràs Bioproductors	Member of the Cooperative	Lleida	Selected for Living Lab
Business - SME	Private sector	Network of contacts	Link made via the transfer,	Not applicable				Consortium Genia Bioenerg		Navas	Selected for living lab but not available for

			business and territory unit from BETA					y + EcoFertibi o (Ammone va)			being part of the Regional Working group
Business - SME	Private sector	Network of contacts	Link made via Link made via the transfer, business and territory unit from BETA	Not applicable		Coll	David	UPG Genetic Words	Director	Viver I Serrateix -	Part of the same consortia than Consortium Genia Bioenergy
Farmers	Civil society	Network of contacts	Link made via Link made via the transfer, business and territory unit from BETA	National project	BIOFERTI+	Simon Monrós	Marius	la Federació de Cooperatives Agràries de Catalunya Agrària Plana de Vic	Member of the organisation	Santa Cecília de Voltreg a	
Farmers	Civil society	Regional platform	Link made via Link made via the transfer, business and territory unit from BETA	Not applicable	https://gapcooperativa.com/	Blazquez	Angels	Coopertiva Gap		Lleida	GAP Cooperativa, as a farmers organisation, had to deal with the excess of nitrogen present on their pigs manure. Their solution was to gather together

											and invest on the construction of a biogas plant, owned by the then created TRACJUSA SA. They built this 100.000 Tn/year treatment capacity plant which has been running since its creation.
Association	Civil society	Regional cluster		Not applicable		Tobias	Cristina	Cooperativa Torello			
Farmers	Public sector	Regional cluster		Not applicable	Innovi Home	Gonsalo	Mariona	INNOVI - Institute Viticulture			
Business - SME	Civil society	Regional cluster		Not applicable		Galimany	Josep Maria	Asociació n defensa Vegetal - COVIDES	Director Viticultura		
Business - SME	Civil society	Regional cluster		Not applicable	https://advecologica.org/es/sobre-lady/	Solano Hernandez	Ainhoa	Asociació n defensa Vegetal	Técnica Asesora, dinamizació n y proyectos transversales	Lleida	

Business - SME	Private sector	Network of contacts		Not applicable				Ecobiogás		Vilansana	Vila Sana anaerobic digestion plant, they produce ammonium sulfate and solar drying of the solid fraction of the digestate
Business - SME	Private sector	Network of contacts		Not applicable	Quienes somos Labin nutrición vegetal	Castañeda	Celia	PRODUCTOS LABIN, SL			Production of organic fertilisers
Farmers	Private sector	Network of contacts		Not applicable		Vallbona	Pere	Terrgarisa monellots			
Business - SME	Private sector	Network of contacts		Not applicable				AMONEVA			manure valorisation
Business - SME	Private sector	Network of contacts		Not applicable		Rubies	Xavier	FRISELVA			
Business - SME	Private sector	Network of contacts		Not applicable				DESIMPACTO			
Business - SME	Private sector	Network of contacts		Not applicable		Armengol	Jordi	TRACJUS A			
Business - SME	Private sector	Network of contacts		Not applicable		Bernis	Jaume	AGRORRAMADES			Solid fraction of manure
Business - SME	Private sector	Network of contacts		Not applicable				DEFEDER			

Business - SME	Private sector	Network of contacts		Not applicable		Masferrer	Gerard	MAFRICA			Slaughterhouse
Business - Large company	Private sector	Conference		Not applicable				FERTIBERI A			
Farmers	Civil society	Regional platform		Not applicable	https://uniopagesos.cat/qui-som/referents-al-camp-catala/	Pujol	Maite	Unió de Pagèsos			
Regional public administration	Public sector	Regional platform		Not applicable		Micola	Núria	Agència Catalana de l'Aigua			
Regional public administration	Public sector	Regional platform		Not applicable	https://residus.gencat.cat/ca/inici	Pous	Meri	Agència Catalana de Residus			
Farmers	Civil society	Regional platform		Not applicable		Padrós	Enric	Clúster Maquinària agrícola FEMAC			
University	Academic sector	Network of contacts		Not applicable		Colom	Glòria	Escola agrària Manresa			
Regional public administration	Public sector	Network of contacts		Not applicable		Giralt	Lluís	Incavi (Institut català de			

								la vinya i el vi)			
Farmers	Civil society	Network of contacts		Not applicable				la Vinyeta			
Regional public administration	Public sector	Network of contacts		Not applicable		Terrades	Jordi	ADRINOC - Associació Per Al Desenvolupament Rural Integral De La Zona Nord-Oriental De Catalunya . Grup d'Acció Local LEADER			
Farmers	Unió de Pagèsos	Civil society	Regional platform		Not applicable	https://uniopagesos.cat/qui-som/referents-al-camp-catala/	Pujol	mpujol@uniopagesos.cat	Contacto Referencia		
Regional public	Agència Catalana de l'Aigua	Public sector	Regional platform		Not applicable		Micola	nmicola@gencat.cat			

administrati on											
Regional public administrati on	Agència Catalana de Residus	Public sector	Regional platform		Not applicable	https://residus.gencat.cat/ca/inici	Pous	mpous@gencat.cat			
Farmers	Clúster Maquinaria agrícola FEMAC	Civil society	Regional platform		Not applicable		Padrós	femac@femac.org			
University	Escola agrària Manresa	Academic sector	Network of contacts		Not applicable		Colom	gloriap@gencat.cat			
Regional public administrati on	Incavi (Institut català de la vinya i el vi)	Public sector	Network of contacts		Not applicable		Giralt	lluis.giralt@gencat.cat			
Farmers	la Vinyeta	Civil society	Network of contacts		Not applicable			celler@lavinyeta.es			
Regional public administrati on	ADRINOC - Associació Per Al Desenvolup ament Rural Integral De La Zona Nord- Oriental De	Public sector	Network of contacts		Not applicable		Terrades	info@adrinoc.cat			



Novafert

	Catalunya. Grup d'Acció Local LEADER										
	Espigall							jordi@espigall.cat			



ANNEX 3. Fiches of the Regional Working Groups meetings held (by November, 2023)



RWG meetings for Flanders region, Belgium

The meetings held until November 2023 (the RWG will continue growing until the end of the project) are reported in the following fiches:

FLEMISH REGIONAL WORKING GROUP EVENTS REPORTING				
EVENT	1 st RWG meeting Flanders region			
DATE AND LOCATION (if applicable)	[14/06/2023 – 9.00-9.30-Online]			
FACILITATOR (consortium partner)	Nimisha Edayilam – UGent			
PARTICIPANT(S) (add as many rows as needed)	EmmaVan Steenweghen	BoerenBond	Consultant Circular Economy	Farmers' Union
	Lukas Puffet	BoerenBond	Entrepreneurship & Innovation	Farmers' Union
	Nimisha Edayilam	UGent	NOVAFERT Coordinator	University
DESCRIPTION OF THE MEETING CONTENTS AND MAIN OUTCOMES	The Boerenbond is a professional organisation for farmers and landscapers in Flanders and East Belgium. They focus on advocacy, training, networking, innovation, and providing support and guidance.			

	The meeting was held online, with the facilitator (Nimisha Edayilam) of the regional working group providing an introduction to the NOVAFERT project, the regional group members' expectations, and an introduction to the SWOT analysis methodology previously created for the NOVAFERT project. The participants discussed about the next steps and provided preliminary information for completing a SWOT analysis.
ADDITIONAL MATERIAL TO BE INCLUDED	<ul style="list-style-type: none"> • PPT shared with the participants. • Report of attendance from Teams.
LINKS (if any) TO THE RELATED PRESENTATIONS, PUBLICATIONS, ANNOUNCEMENTS IN THE ORGANISERS' WEBSITE, ETC.	Homepagina Boerenbond
NEXT STEPS (if any)	<ul style="list-style-type: none"> • Use the results of the activities to define the attributes of the NOVAFERT SWOT for the Flanders area. • Share the SWOT draft with the RWG members and ask for feedback and input.



FLEMISH REGIONAL WORKING GROUP EVENTS REPORTING	
EVENT	1 st RWG physical meeting in the Flanders region

DATE AND LOCATION (if applicable)	20/06/2023 – Ghent, Belgium			
FACILITATOR (consortium partner)	Maarten De Coninck+ Erik Meers – UGent			
PARTICIPANT(S) (add as many rows as needed)	Sara	De Bolle	VLM	Research
	Mattie	De Meester	VCM	Research
	Willems	Bernard	INNOLAB	Research
	Luc	Vansteelant	Danis NV	Agriculture
	Stefaan	Logghe	Nutriproces bv	Agriculture
	Liselot	Bourgeois	ILVO	Research
	Kris	Ally	Smart Renure	Agriculture
	Annemie	Baert	Geen	Agriculture
	Ludo	Vanhove	Vanhove	Agriculture
	Mia	Demeulemeester	Inagro	Research

	Johan	Acke	Weet niet wat u hiermee bedoeld	Agriculture
	Johan	Dejaeger	green tile	Agriculture
	Robin	Deschuymer	NAC	Agriculture
	Matthias	Viaene	NAC	Agriculture
	Bries	Jan	Bodemkundige Dienst van België	Research
	Lanssens	Paul	bedrijfsleider	Agriculture
	Ludo	Vanhove	Vanhove	Agriculture
	Evelien	Lammertyn	Danis	Agriculture
	Jasmine	Versyck	B2BE Facilitator	Agriculture
	Jarinda	Viaene	ILVO	Research
	Hans	Wallays	nv Leievoeders	Industry
	Antoine	Van der Hasselt	Landbouwbedrijf	Agriculture
	Paul	De Ryck	ABS	Agriculture

	Marc	De Coen	De Coen	Agriculture
		Van der Perre	Abs	Agriculture
	Tom	Van Nieuwenhove	Inagro	Research
	Tine	Hermans	Boer Burger Belangen, Ik ben zeer geïnteresseerd maar kan niet aanwezig zijn. Mogelijk om achteraf documentatie te verkrijgen of wordt deze misschien ook gelifestreamd? Mvg, Tine	
	Francis	Verhaest	Stam Agro	
	Ria	Van Loenhout	agra	Agriculture
	Goeminne	Noël	ABS	Agriculture
	Van	Laere	Suin bv	Agriculture

	Dirk	Remue	landbouw en visserij abco	
	Achiel	Tylleman	agro-experten	Agriculture
	Geert	Clarebout	Clarebout Geert BV	Agriculture
	Eric	De Vriendt	Landbouw	Agriculture
DESCRIPTION OF THE MEETING CONTENTS AND MAIN OUTCOMES <p>Nutricycle Vlaanderen is a platform that already exists in Flanders as part of another Horizon Europe Project, Nutri2Cycle. As Nutri2Cycle comes to an end in September, this platform will continue running in the framework of NOVAFERT with RWG activities. Nutricycle Vlaanderen organised an event on the future of sustainable farming in Flanders on June 20, 2023. Farmers, policymakers, and farming and environmental organisations all had a chance to share their perspectives on the subject. The participation list also includes potential members who wish to continue actively participating in NOVAFERT's RWG operations. The meeting discussed the NOVAFERT project and its activities.</p> <p>During this event, they have been able to provide relevant information at regional level on the main challenges and needs they face.</p> <p>This will be the first of many local meetings and collaborative activities organised by UGent, with the possibility of sharing with other projects such as Fertimanure and Nutri2cycle.</p>				

<p>ADDITIONAL MATERIAL TO BE INCLUDED</p>	 
<p>LINKS (if any) TO THE RELATED PRESENTATIONS, PUBLICATIONS, ANNOUNCEMENTS IN THE ORGANISERS' WEBSITE, ETC.</p>	<p>Home - Nutricycle</p>
<p>NEXT STEPS (if any)</p>	<ul style="list-style-type: none"> • Possible follow-up meeting to discuss the attributes of the NOVAFERT SWOT for the Flanders region and determine their relevance. • Share the SWOT draft with the RWG members and ask them for comments / validation.

FLEMISH REGIONAL WORKING GROUP EVENTS REPORTING				
EVENT	3 rd RWG meeting Flanders region			
DATE AND LOCATION (if applicable)	[21/06/2023 – 15.00-15.45-Online]			
FACILITATOR (consortium partner)	Nimisha Edayilam – UGent			
PARTICIPANT(S) (add as many rows as needed)	Kris Heirbaut	Heirbaut Hoeveproducten	Farm	Farmer
	Sander Vandendriessche	Inagro	Research institute	Practical researcher energy and circular economy
	Ines Verleden	Inagro	Research institute	Researcher
	Nimisha Edayilam	UGent	NOVAFERT Coordinator	University
DESCRIPTION OF THE MEETING CONTENTS AND MAIN OUTCOMES	<p>The meeting was held online, with the facilitator (Nimisha Edayilam) of the regional working group introducing the NOVAFERT project, the regional group members' expectations, and an introduction to the SWOT analysis methodology previously created for the NOVAFERT project. The participants discussed about the next steps and provided preliminary information for completing a SWOT analysis.</p>			

	<p>Inagro is a research institute that is also active in the NOVAFERT sister project FER-PLAY, participants addressed the possibility of partnering in RWG activities.</p> <p>Kris Heirbaut is an experienced farmer who explained the <u>Threads/challenges</u> in the use of innovative fertilisers produced from secondary raw materials based on his own experiences. Those points have been noted.</p> <p>Oversupply of sustainability programmes: entrenched interests try to introduce their own form of sustainability or green washing; farmers are over-inquired for such initiatives.</p> <p>Eco schemes, multi-variety crops, and even the reintroduction of seeds from extremely old species are not compatible with modern sustainable fertilisers.</p> <p>The overflow of evolving rules and new information and conditions, as well as a rising diversity of potentially fascinating cultivations and all data a farmer must analyse, complicate matters, and farmers may be afraid of this complexity; new fertilising technologies may even complicate matters further.</p>
ADDITIONAL MATERIAL TO BE INCLUDED	<ul style="list-style-type: none"> • PPT shared with the participants. • Report of attendance from Teams.
LINKS (if any) TO THE RELATED PRESENTATIONS, PUBLICATIONS, ANNOUNCEMENTS IN THE ORGANISERS' WEBSITE, ETC.	<p>www.inagro.be</p> <p>Heirbaut Hoeveproducten</p>

NEXT STEPS (if any)	<ul style="list-style-type: none"> • Use the results of the activities to define the attributes of the NOVAFERT SWOT for the Flanders area. • Share the SWOT draft with the RWG members and ask for feedback and input.
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RWG meetings for Continental Croatia region

The meetings held until November 2023 (the RWG will continue growing until the end of the project) are reported in the following fiches:

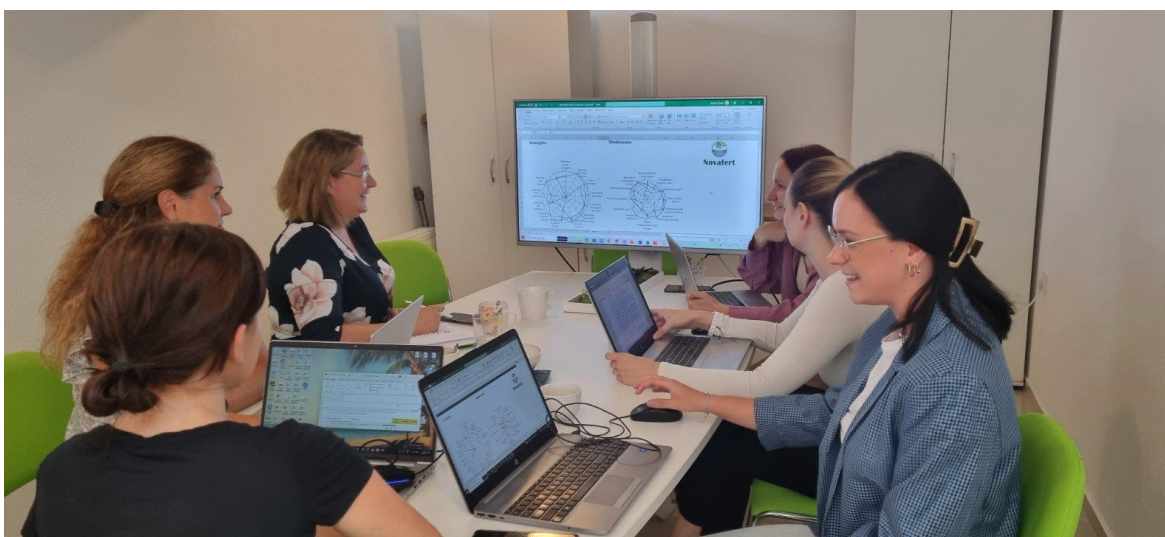
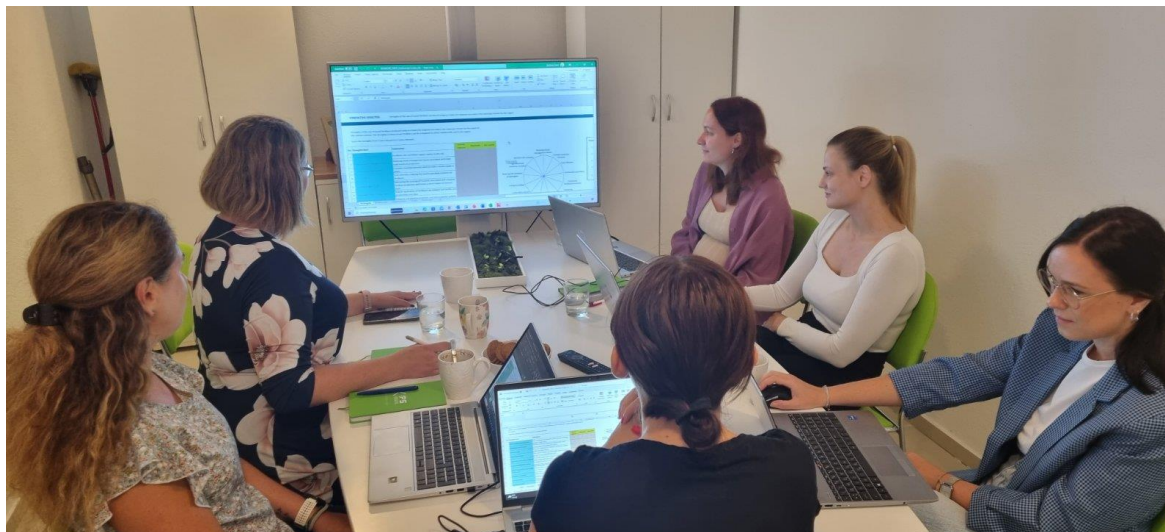
CONTINENTAL CROATIA REGIONAL WORKING GROUP EVENTS REPORTING				
EVENT	1 st RWG meeting			
DATE AND LOCATION (if applicable)	31/ 08/ 2023 – Sisak, (Croatia)			
FACILITATOR (consortium partner)	IPS Konzalting			
PARTICIPANT(S) (add as many rows as needed)	Ana-Marija Špicnagel	IPS Konzalting	Project manager and director at IPS Konzalting	Business - SME – private sector
	Barbara Đukić	IPS Konzalting	Senior consultant	Business - SME – private sector

	Morana Jednačak	IPS Konzalting	Project assistant	Business - SME – private sector
	Natalija Vugrin	IPS Konzalting	Project assistant	Business - SME – private sector
	Mirna Avdić	IPS Konzalting	Project assistant	Business - SME – private sector
	Tanja Ćuk	IPS Konzalting	Project assistant	Business - SME – private sector
DESCRIPTION OF THE MEETING CONTENTS AND MAIN OUTCOMES		The meeting was held face to face at IPS Konzalting, Sisak, Croatia. The NOVAFERT project is briefly presented, as well as goals and project activities. Furthermore, activities related to the SWOT analysis were presented. After the introduction, potential strengths, weaknesses, opportunities and threats related to the alternative fertilisers were presented. Members of RWG discussed and scored the statements related to three second raw materials (animal manure, digestate, and bio-waste) in Continental Croatia.		



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**ADDITIONAL MATERIAL TO
BE INCLUDED**



LINKS (if any) TO THE RELATED PRESENTATIONS, PUBLICATIONS, ANNOUNCEMENTS IN THE ORGANISERS' WEBSITE, ETC.	
NEXT STEPS (if any)	The next step is organisation of the second meeting where other stakeholders will be involved (farmers, fertiliser producers). Additionally, after compiling the SWOT analyses and completing the related deliverable, the results will be presented to the RWG.

RWG meetings for South-West Finland region

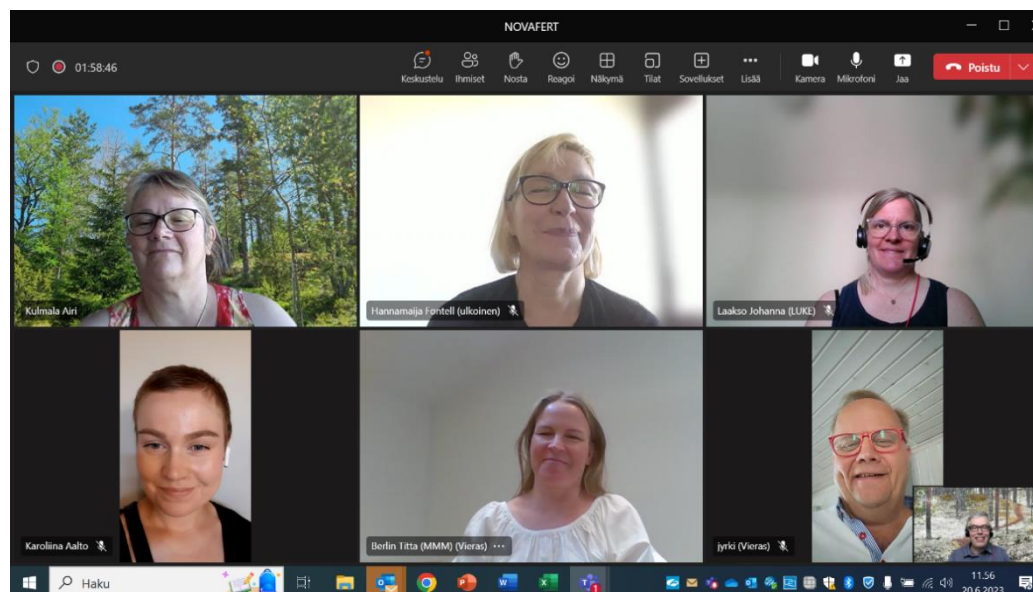
The meetings held until November 2023 (the RWG will continue growing until the end of the project) are reported in the following fiches:

FINISH REGIONAL WORKING GROUP EVENTS REPORTING	
EVENT	1 st RWG
DATE AND LOCATION (if applicable)	20/06/2023 – Online
FACILITATOR (consortium partner)	Kari Ylivainio - Natural Resources Institute Finland]

PARTICIPANT(S) (add as many rows as needed)	Titta Berlin	Ministry of Agriculture and Firestry	Ministerial adviser	Public
	Hannamaija Fontell	Biolan Ltd	Director R&D and business development	Private
	Karoliina Aalto	ProAgria	Development director	NGO
	Jyrki Heilä	Biopir Ltd	Chairman of the Board	Private
	Airi Kulmala	Farmers association (MTK)	Environmental expert	NGO
	Johanna Laakso	Natural Resources Institute Finland	Senior researcher	Public
DESCRIPTION OF THE MEETING CONTENTS AND MAIN OUTCOMES	<p>This was the first RWG meeting in Finland. Participant of RWG includes expertise from the following areas related to alternative fertilisers: legislation, production, agronomic efficiency and safe use from the environmental point of view. Also knowledge about farmer's acceptance of alternative fertilisers is well presented in RWG.</p> <p>Short introduction round was conducted at the beginning of the meeting followed by the introduction of NOVAFERT project and SWOT analyses that will be conducted for the alternative fertilisers. After introduction of the SWOT analyses, potential strength, weaknesses, opportunities</p>			

and threat related to the alternative fertilisers were presented and vivid discussions took place around these issues. Luke will collect the presented attributes into an excel file and will send it to RWG members for scoring the attributes within each matrix.

**ADDITIONAL MATERIAL
TO BE INCLUDED**



**LINKS (if any) TO THE
RELATED PRESENTATIONS,
PUBLICATIONS,
ANNOUNCEMENTS IN THE
ORGANISERS' WEBSITE,
ETC.**

NEXT STEPS (if any)	After compiling SWOT analyses and finalising the related deliverable, results will be presented for the RWG.
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RWG meetings for East Ireland region

The meetings held until November 2023 (the RWG will continue growing until the end of the project) are reported in the following fiches:

IRISH REGIONAL WORKING GROUP EVENTS REPORTING				
EVENT	1 st RWG meeting			
DATE AND LOCATION (if applicable)	10/11/2022, Johnstown Castle Co. Wexford, Ireland			
FACILITATOR (consortium partner)	Dónal Kinsella – Teagasc			
PARTICIPANT(S) (add as many rows as needed)	Elizabeth O'Carroll	Teagasc	Researcher	Public
	Mark Plunkett	Teagasc	Advisor	Public
	Patrick Forrestal	Teagasc	Researcher	Public
	Donal Kinsella	Teagasc	Researcher	Public
	Patrick Clear	Enva	Waste management	Private

	Róisín Burke	Enva	Waste management	Private
	Catherine Gavin	Teagasc		Public
	Liam Fitzgerald	Teagasc	Teacher	Public
	Barry Doivovain	Self employed	Farmer	Private
	Shaun Smith	Drummonds ltd	Advisor/sales	Private
	Lauren Stanley	Grassland Agro	Product management	Private
	Michael Howard	Grassland Agro	Advisor/sales	Private
	Edward Healy	Grassland Agro	Advisor/sales	Private
	John Corbett	Grassland Agro	Advisor/sales	Private
	John Delee	Grassland Agro	Advisor/sales	Private
	John Walton	D.walsh+sons	Advisor/sales	Private
	Elaine brady	Tirlán	Ruminant nutritionist	Civil
	Wendy Pierce	Teagasc	Laboratory service	Public
	Zoe McKay	UCD	Lecturer	Academic

	Paul Celyam	Brett brothers ltd	Advisor/sales	Private
	Hugh Gahan	Veolia	nutrient management	Private
	Thomas McCarthy	Teagasc	Phd student	Academic
	Cathal redmond	Teagasc	Field technician	Public
	David Schilder	Teagasc		Public
	Martin Walsh	Teagasc	Field technician	Public
	Sinéad Dermondy	Teagasc	Phd student	Academic
DESCRIPTION OF THE MEETING CONTENTS AND MAIN OUTCOMES	<p>Teagasc created a core group with colleagues within the organisation to organise our first workshop. The aim of the workshop was to target people working within the industry giving agronomic advice and selling fertiliser to farmers. The main purpose of this workshop was to introduce the NOVAFERT project and explain the role Teagasc had within the project. Teagasc is responsible for leading WP1 which involved getting as much information as possible on nutrient recovery technologies and products throughout the country. We took this opportunity to receive feedback from the group on nutrient recovery technologies and products that they have come across or seen farmers using within their role. We completed this task by facilitating small breakout sessions.</p>			
ADDITIONAL MATERIAL TO BE INCLUDED	<ul style="list-style-type: none"> • Ppt shared with the participants. • Sign in sheet. 			

- Agenda.
- Pictures of event.



LINKS (if any) TO THE RELATED PRESENTATIONS, PUBLICATIONS, ANNOUNCEMENTS IN THE ORGANISERS' WEBSITE, ETC.

NEXT STEPS (if any)

IRISH REGIONAL WORKING GROUP EVENTS REPORTING

EVENT	2 nd RWG meeting			
DATE AND LOCATION (if applicable)	10/11/2022, Johnstown Castle Co. Wexford, Ireland			
FACILITATOR (consortium partner)	Dónal Kinsella – Teagasc			
PARTICIPANT(S) (add as many rows as needed)	Elizabeth O'Carroll	Teagasc	Researcher	Public
	Martin Bourke	Teagasc	Advisor/specialist	Public
	Mark Plunkett	Teagasc	Advisor/specialist	Public
	Patrick Forrestal	Teagasc	Researcher	Public
	Donal Kinsella	Teagasc	Researcher	Public
DESCRIPTION OF THE MEETING CONTENTS AND MAIN OUTCOMES	<p>The 2nd regional working group meeting involved attending a soil health open day which was part of a soil health conference in which Teagasc organised. The target audience for this event was a broad range of stakeholders interested in the area of soil health, nutrient use efficiency, sustainability etc. We took this opportunity to introduce the work of NOVAFERT and promote the project to anyone attending the event. We had a display of alternative fertilisers for attendees to observe and also shared results from a five-year grassland trial being ran by Teagasc using alternative fertiliser sources.</p>			
ADDITIONAL MATERIAL TO BE INCLUDED	<ul style="list-style-type: none"> Board presentation. 			

- Pictures.

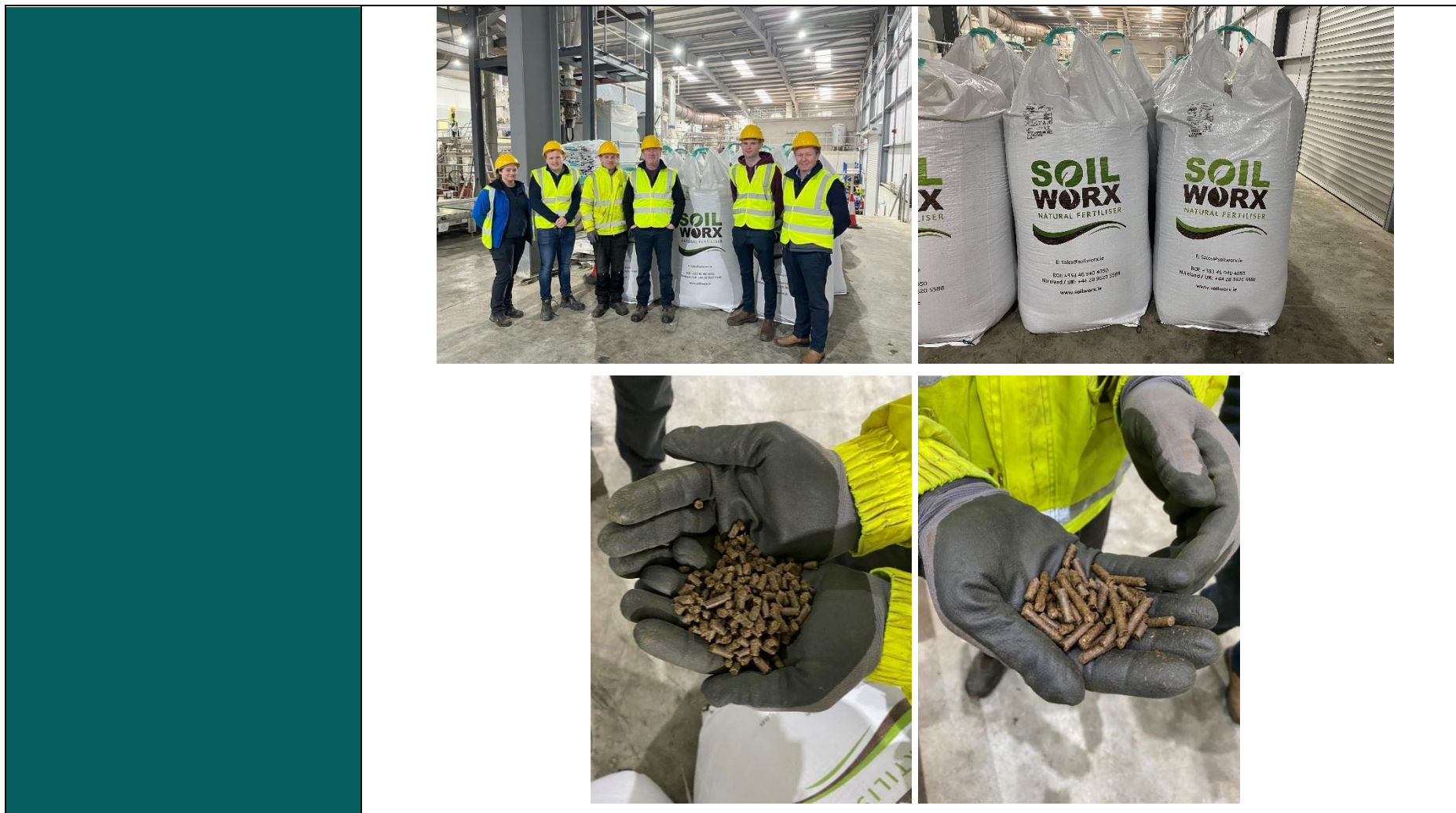


LINKS (if any) TO THE RELATED PRESENTATIONS, PUBLICATIONS, ANNOUNCEMENTS IN THE ORGANISERS' WEBSITE, ETC.

https://youtu.be/a_dcVjJA0NI

NEXT STEPS (if any)

IRISH REGIONAL WORKING GROUP EVENTS REPORTING				
EVENT	3 rd RWG meeting			
DATE AND LOCATION (if applicable)	20/03/2023 Newry, Co. Down, Ireland			
FACILITATOR (consortium partner)	Donal Kinsella			
PARTICIPANT(S) (add as many rows as needed)	Martin Bourke	Teagasc	Advisor/specialist	Public
	Mark Plunkett	Teagasc	Advisor/specialist	Public
	Terry McGarry	Private company	Company director	Private
DESCRIPTION OF THE MEETING CONTENTS AND MAIN OUTCOMES	<p>Some members of the core RWG participated in the 3rd RWG meeting. The purpose of the 3rd RWG meeting was to go and meet with a company which is refining broiler manure into a pelletised product. This was an important aspect of our RWG establishment as we needed to get exposure to private industry within this field. The meeting consisted of interaction discussions regarding to nutrient recycling and a tour of their facilities. It was important to promote NOVAFERT at this meeting to identify any areas where the project may be able support the business.</p>			
ADDITIONAL MATERIAL TO BE INCLUDED	<ul style="list-style-type: none"> Pictures. 			



LINKS (if any) TO THE RELATED PRESENTATIONS, PUBLICATIONS, ANNOUNCEMENTS IN THE ORGANISERS' WEBSITE, ETC.	
NEXT STEPS (if any)	

IRISH REGIONAL WORKING GROUP EVENTS REPORTING				
EVENT	4 th RWG meeting			
DATE AND LOCATION (if applicable)	25/04/2023 Arklow, Co. Wicklow, Ireland			
FACILITATOR (consortium partner)	Donal Kinsella Teagasc			
PARTICIPANT(S) (add as many rows as needed)	Stuart Fitzgerald	Private company	Farmer	Private
	Sylvester Bourke	Private company	Farmer	Private
	Elizabeth O'Carroll	Teagasc	Researcher	Public

	Aoife Egan	Teagasc	Researcher	Public/Academic
	Mark Plunkett	Teagasc	Advisor/specialist	Public/civil
	Patrick Forrestal	Teagasc	Researcher	Public
	Martin Bourke	Teagasc	Advisor/specialist	Public/civil
	Dónal Kinsella	Teagasc	Researcher	Public
DESCRIPTION OF THE MEETING CONTENTS AND MAIN OUTCOMES	The purpose of our 4 th RWG was to welcome additional members to the group. The meeting consisted of introducing and updating ongoing activities within NOVAFERT and visit two farmers which are using alternative fertilising products.			
ADDITIONAL MATERIAL TO BE INCLUDED	<ul style="list-style-type: none"> • Pictures. • Agenda. 			

	 
<p>LINKS (if any) TO THE RELATED PRESENTATIONS, PUBLICATIONS, ANNOUNCEMENTS IN THE ORGANISERS' WEBSITE, ETC.</p>	
<p>NEXT STEPS (if any)</p>	

RWG meetings for South-East Poland region

The meetings held until November 2023 (the RWG will continue growing until the end of the project) are reported in the following fiches:

POLISH REGIONAL WORKING GROUP EVENTS REPORTING				
EVENT	1 st RWG meeting			
DATE AND LOCATION (if applicable)	06/07/2023, Online, 16.00-17.30 CET			
FACILITATOR (consortium partner)	Marzena Smol – Mineral and Energy Economy Research Institute, Polish Academy of Sciences			
PARTICIPANT(S) (add as many rows as needed)	Klara Ramm	Polish Waterworks Chamber of Commerce / EurEua	Expert	National public organisation
	Dariusz Włóka	GreenBack Ltd.	Co-founder & R&D Director	Business – Small and sized enterprise (SME) Entrepreneur
	Erik Aruszanjan	Optimus Foundation	Chairman of the board	Non-governmental organisation (NGO)
	Jadwiga Dziedzic	AGH University of Science and Technology	PhD candidate	University

	Dominika Szoldrowska	Mineral and Energy Economy Research Institute, Polish Academy of Sciences	Research Assistant	Research centre
	Łukasz Czaja	Herby Water Treatment Plant – Lisów Wastewater Treatment Plant	Engineer	Regional public administration
	Marzena Smol	Mineral and Energy Economy Research Institute, Polish Academy of Sciences	Head of Division of Biogenic Raw Materials, Associate Professor, Coordinator of NOVAFERT project in Poland	Research centre
	Paulina Marcinek	Mineral and Energy Economy Research Institute, Polish Academy of Sciences	Research Assistant, Coordinator of the RWG in Poland	Research centre
DESCRIPTION OF THE MEETING CONTENTS AND MAIN OUTCOMES		This was the inaugural Regional Working Group (RWG) gathering held in Poland. The meeting occurred virtually, bringing together participants from the Quadruple Helix, which encompasses representatives from the private, public, social, and civil sectors.		

	<p>At the onset of the meeting, the RWG members introduced themselves. Subsequently, the primary objectives and underlying principles of the NOVAFERT project were outlined. Examples of alternative fertiliser sources being investigated within the project were also presented. After this initial introduction, the methodology for conducting SWOT (strengths, weaknesses, opportunities, and threats) analysis was presented. Subsequently, various strengths, weaknesses, opportunities, and threats regarding the use of alternative fertilisers derived from animal manure, digestate, and sewage sludge were presented. Engaging discussions ensued on these topics.</p> <p>MEERI compiled the attributes that were presented into an Excel file, which was then shared with RWG members for review and the addition of supplementary matrix attributes.</p>
ADDITIONAL MATERIAL TO BE INCLUDED	<ul style="list-style-type: none"> • Presentation used (ppt). • Several pictures of the event (screenshots) (png). • Report of attendance from Webex (xlsx). • Agenda (pdf).
LINKS (if any) TO THE RELATED PRESENTATIONS, PUBLICATIONS, ANNOUNCEMENTS IN THE ORGANISERS' WEBSITE, ETC.	
NEXT STEPS (if any)	<ul style="list-style-type: none"> • Review and the addition of supplementary matrix attributes by RWG members. • Matrix attribute scoring.

POLISH REGIONAL WORKING GROUP EVENTS REPORTING				
EVENT	2 nd RWG meeting			
DATE AND LOCATION (if applicable)	31/10/2023, Online, 15.00-16.00 CET			
FACILITATOR (consortium partner)	Paulina Marcinek – Mineral and Energy Economy Research Institute, Polish Academy of Sciences			
PARTICIPANT(S) (add as many rows as needed)	Paulina Oczkowicz	AGH University of Kraków, Poland	Research Assistant & Farmer	University
DESCRIPTION OF THE MEETING CONTENTS AND MAIN OUTCOMES	<p>This constituted the 2nd gathering of the Regional Working Group (RWG) held in Poland. The meeting took place virtually and was attended by MSc Paulina Marcinek, the leader of the RWG in Poland, and MSc Paulina Oczkowicz, who serves as a research assistant at AGH University in Krakow and is also an active farmer.</p> <p>In the initial part of the meeting, the primary objectives and activities within the NOVAFERT project were introduced. Examples of alternative fertiliser sources being investigated within the project were also presented. Following the introduction, the SWOT methodology was explained, and data collected from the previous RWG meeting were presented and discussed.</p> <p>Finally, the actions to be undertaken within the RWG were presented.</p>			

ADDITIONAL MATERIAL TO BE INCLUDED

- Presentation used (ppt).
- Several pictures of the event (screenshots) (png).
- Report of attendance from Webex (xlsx).
- Agenda (pdf).



LINKS (if any) TO THE RELATED PRESENTATIONS, PUBLICATIONS, ANNOUNCEMENTS IN THE ORGANISERS' WEBSITE, ETC.	
NEXT STEPS (if any)	

RWG meetings for Andalusia region, Spain

The meetings held until November 2023 (the RWG will continue growing until the end of the project) are reported in the following fiches:

ANDALUSIAN REGIONAL WORKING GROUP EVENTS REPORTING				
EVENT	1 st RWG meeting in the Andalusian region			
DATE AND LOCATION (if applicable)	24/05/2023 – Vélez-Málaga (Spain)			
FACILITATOR (consortium partner)	Pilar Zapata + Gerardo González – BIOAZUL			
PARTICIPANT(S) (add as many rows as needed)	Julen Azpiroz	TROPS	Computer engineer	Business-Large company

	Hernan Andrés Moreno Abadía	TROPS	Intern	Business-Large company
	Jaime Fernández Gómez	TROPS	Intern	Business-Large company
	Javier Guirado Moreno	TROPS	Auditor	Business-Large company
	José Santamaría Ortega	TROPS		Business-Large company
	Lucas Sánchez Requena	TROPS	Agricultural engineer	Business-Large company
	Nieves Westendorp	TROPS	Consultant for food safety systems	Business-Large company
	Sherezade María Paterna Titos	TROPS	Agricultural technician	Business-Large company
	Adrián Mesa Martín	TROPS	Agricultural engineer	Business-Large company
	Mercedes López Rodríguez	TROPS	Quality and food safety technician	Business-Large company

	José Manuel Braun Egler	TROPS	Managing Board Member	Business-Large company
	Ángel Gallardo Carrero	CETAQUA	Project Manager	Foundation
	Enrique Gutiérrez Díez	CETAQUA	Manager	Foundation
	Antolín de Benito Romero	AXARAGUA	Manager	Business - SME
	Raúl Peña Moreno	AXARAGUA	Executive board member	Business - SME
	Gregorio Antonio Campos Marfil	AXARAGUA	Vice-president	Business - SME
	Susana Turégano Audije	Ergofito Iberica	Co-founder and CEO	Business - SME
	Enrique Montes Plaza	Ergofito Iberica	Sales director	Business - SME
	Antonio Moreno Fortes	AgriSmart data	CEO	Business - SME
	Francisco José Llamas Sánchez	IHSM-La Mayora	Field Technician	Research centre

	María Remedios Romero Aranda	IHSM-La Mayora	Senior Scientist	Research centre
	Iñaki Hormaza Urroz	IHSM-La Mayora	Research Professor	Research centre
	Antonio Cordón Peñalver	IHSM-La Mayora	Manager	Research centre
	José Manuel Gil Segovia	Algarrobo Irrigation Community	Member	
	Fernando Recio Ferrer	REALIMA Environmental Engineering	CEO	Business - SME
	Manuel Martín Arroyo	Agbar Agriculture	Marketing manager	Business - Large company
	Marta Pérez Ortolá	Agbar Agriculture	Sustainability and Biodiversity manager	Business - Large company
	Carmen Farré Solsona	Agbar Veolia Spain		Business - Large company
	Antonia María Lorenzo López	BIOAZUL	CEO	Business - SME

	Ángela Magno Malagón	BIOAZUL	Marketing and communications Director	Business - SME
	Rafael Casielles Restoy	BIOAZUL	Senior Project manager	Business - SME
	Gerardo González Martín	BIOAZUL	Project manager	Business - SME
	Pilar Zapata Aranda	BIOAZUL	Senior Project manager	Business - SME
	Claudia De Luca	BIOAZUL	Project manager	University
	Ruggero Gualtieri	BIOAZUL	Intern	University
	Mariano Morán Prados	INNOVA IRV	Chief Technical Officer	Business - SME
DESCRIPTION OF THE MEETING CONTENTS AND MAIN OUTCOMES	<p>Last May 24th, 2023, a regional event took place in the framework of NOVAFERT project and in collaboration with another Horizon Europe project, P2Green, also devoted to the use of secondary raw materials to produce fertilisers, in Vélez-Málaga, Axarquía area, within the Andalusian region. This event, that constitutes the first NOVAFERT Regional Working Group (RWG) meeting, was organised by BIOAZUL in collaboration with other regional P2Green partners: Trops, the first transnational producers organisation of Andalusia, specialised in the production and marketing of avocado and mango; Cetaqua, a public-private water technology centre with headquarters in four</p>			

different locations, one of them Andalusia; [Axaragua](#), the water management company of the of the Costa del Sol – Axarquía region; and [AgriSmart Data](#), a company devoted to smart farming.

The event counted with 39 attendees belonging, on the one hand, to the water management and regeneration sector, and, on the other hand, to the agronomic sector. During this event, they have been able to provide relevant information at regional level on the main challenges and needs they face.

The information gathered will be useful to perform the SWOT (Strengths, Weaknesses, Opportunities and Threatens) analysis on the use of fertilisers produced using wastewater and sewage sludge as secondary raw materials, and very specially on the use or reclaimed water as alternative fertiliser.

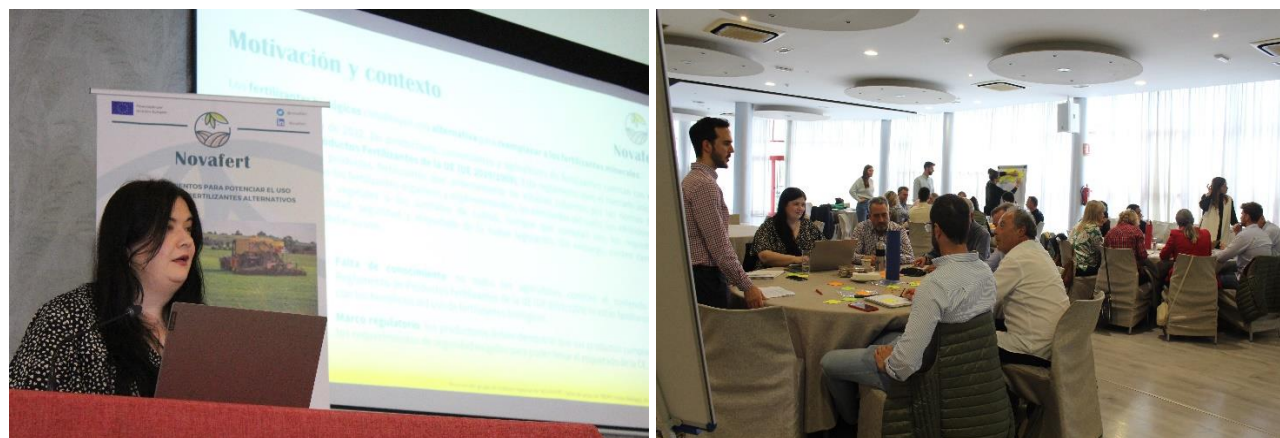
The event counted with several presentations and activities:

- P2Green project: Transforming urban wastewater and organic solid waste into fertilisers. Miguel Angel Diaz. Project manager, Water resources management (CETAQUA).
- Lecture: "The future of the subtropical crops in the Axarquía region in a context of climate change". Iñaki Hormaza. Research Professor of the Subtropical and Mediterranean Fruit Growing Department (CSIC-IHSM "La Mayora").
- NOVAFERT Project: Development of innovative procedures and sustainable guidelines to promote the use of alternative fertilisers. Pilar Zapata. Senior manager of R+D+i projects (BIOAZUL S.L.).
- Interactive activities with stakeholders (1): identification of challenges, needs and benefits.
- Interactive activities with stakeholders (2): classification by relevance.
- Interactive activities with stakeholders (3): "in/out" activity.

- Interactive activities with stakeholders (4): stakeholders cooperation mapping.

This will be the first of several meetings and collaborative activities of the region that BIOAZUL will organise, when possible also sharing forces with other related projects like P2GreenN and/or [BONEX](#).

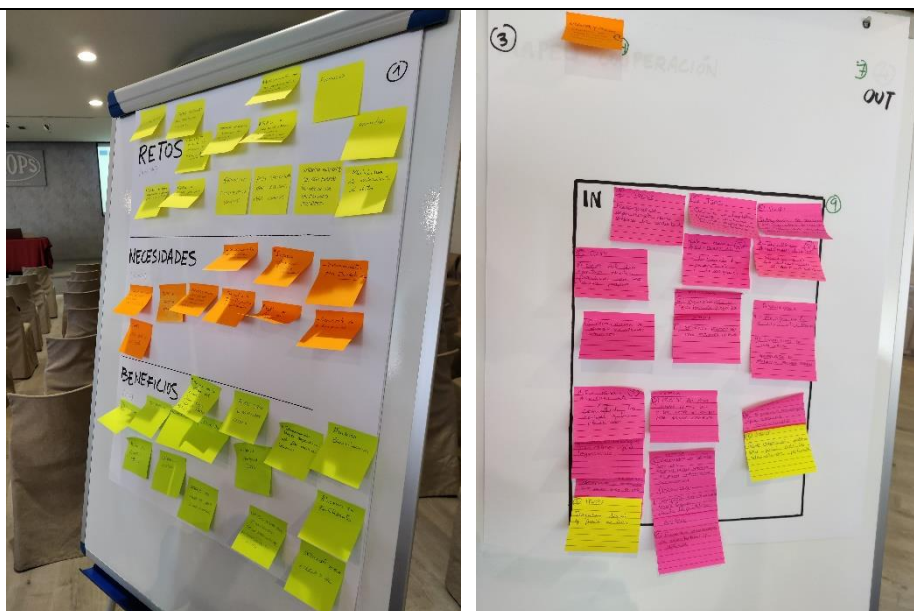
ADDITIONAL MATERIAL TO BE INCLUDED







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LINKS (if any) TO THE RELATED PRESENTATIONS, PUBLICATIONS, ANNOUNCEMENTS IN THE ORGANISERS' WEBSITE, ETC.

<https://www.NOVAFERT.eu/the-first-regional-working-group-organised-in-andalusia/>.

<https://www.cetaqua.com/p2green-agua-regenerada-axarquia/>.

<https://www.industriambiente.com/noticias/20230530/p2green-el-proyecto-europeo-que-pretende-validar-el-potencial-uso-del-agua-regenerada-como-biofertilizante-para-el-riego-en-la-axarquia-malaga>.

<https://www.5aldia.org/key/noticias-de-socios-2023/trops-celebra-el-workshop-reducir--reutilizar-y-recuperar--organizado-dentro-del-proyecto-p2green-13453-1672-17528-0-1-in.html>.





	<p>https://www.interempresas.net/Horticola/Articulos/482342-P2GreeN-proyecto-europeo-pretende-validar-potencial-uso-agua-regenerada-biofertilizante.html.</p> <p>https://www.retema.es/actualidad/p2green-un-proyecto-europeo-para-generar-biofertilizantes-partir-de-aguas-residuales.</p> <p>https://www.linkedin.com/posts/trops_p2green-aguaregenerada-ihsmlamayora-activity-7067164865387192320-gOsp?utm_source=share&utm_medium=member_desktop.</p> <p>https://www.linkedin.com/posts/cetaqua_sectoragraedcola-aguaregenerada-agricultura-activity-7069309951709437953-pCJB?utm_source=share&utm_medium=member_desktop.</p> <p>https://twitter.com/PilarZapataAran/status/1661277952938524674?cxt=HHwWhlC2oelFhY4uAAA A.</p> <p>https://twitter.com/bioazul_spain/status/1661272808461148160?cxt=HHwWgIC99ai0g44uAAAA.</p> <p>https://twitter.com/ftROPS/status/1661284121920909316?cxt=HHwWiMC94ezGil4uAAAA.</p> <p>https://twitter.com/CETAQUA/status/1661272807211257856?cxt=HHwWgMC-zZ-0g44uAAAA.</p>
NEXT STEPS (if any)	<p>Use the outcomes of the activities performed to define the attributes of the NOVAFERT SWOT for the Andalusia region and determine their relevance.</p> <p>Share the SWOT draft with the RWG members and ask them for comments / validation.</p>

ANDALUSIAN REGIONAL WORKING GROUP EVENTS REPORTING	
EVENT	Meeting to enlarge the RWG

DATE AND LOCATION (if applicable)	20/06/2023 – Online			
FACILITATOR (consortium partner)	Pilar Zapata – BIOAZUL			
PARTICIPANT(S) (add as many rows as needed)	José Martín Soriano Disla	CETENMA, Technology Centre for Energy and the Environment	R&D&I Project Coordinator – FER-PLAY project coordinator	Technology centre
	Francisca Sánchez Liarte	CETENMA, Technology Centre for Energy and the Environment	Responsible for the European Projects Office	Technology centre
	Andrés Jesús Lara Guillén	CETENMA, Technology Centre for Energy and the Environment	Environmental Area R&D&I Responsible	Technology centre
	Pilar Zapata Aranda	BIOAZUL S.L.	Senior Project Manager	SME
	Gerardo González Martín	BIOAZUL S.L.	Project Manager	SME

	Rafael Casielles Restoy	BIOAZUL S.L.	Senior Project Manager	SME
DESCRIPTION OF THE MEETING CONTENTS AND MAIN OUTCOMES	<p>The meeting was devoted to discussing possible synergies and potential joint activities between projects in which CETENMA and BIOAZUL are involved, concretely:</p> <ul style="list-style-type: none"> • FER-PLAY and NOVAFERT. • HOOP, CETENMA's H2020 project. • VALUEWASTE, CETENMA's H2020 project. • P2GreeN, BIOAZUL's Horizon Europe project. • BONEX, BIOAZUL's PRIMA project. <p>The main idea was sharing the kind of documentation produced within each project and the upcoming events of each of them in which any of the other projects could collaborate.</p> <p>In this sense, one of the events mentioned was the next General Assembly of FER-PLAY project, which will take place in October 2023 in Murcia, Spain, and they are planning to organise an open day for other projects to be presented and perform any specific activity, if suitable.</p> <p>In addition, the NOVAFERT SWOT analysis was introduced to CETENMA staff and an initial discussion was held.</p>			
ADDITIONAL MATERIAL TO BE INCLUDED				
LINKS (if any) TO THE RELATED PRESENTATIONS,				

PUBLICATIONS, ANNOUNCEMENTS IN THE ORGANISERS' WEBSITE, ETC.	
NEXT STEPS (if any)	<ul style="list-style-type: none"> • Presential meeting to be organised next month in Cartagena, Murcia, where the discussion about the SWOT attributes will be resumed, and they will be also pondered to create the spider diagrams.

ANDALUSIAN REGIONAL WORKING GROUP EVENTS REPORTING				
EVENT	Meeting to enlarge the RWG and identify attributes for the SWOT analysis			
DATE AND LOCATION (if applicable)	20/06/2023 – Online			
FACILITATOR (consortium partner)	Carmen Galindo – EIT Food			
PARTICIPANT(S) (add as many rows as needed)	Francisco Pedrero Salcedo	CEBAS-CSIC	Senior Scientist	Research and Technology Organisation (RTO)

	Carmen Galindo Rodríguez	EIT Food	Key Account Manager	Research and Technology Organisation (RTO)
DESCRIPTION OF THE MEETING CONTENTS AND MAIN OUTCOMES	<p><i>Francisco Pedrero works at CEBAS-CSIC in Murcia (Spain), in the department of Irrigation, with a strong focus on precision agriculture (irrigation scheduling, sensing technology, deficit irrigation and optimisation on the use of alternative water sources, including reclaimed water, desalinated water.</i></p> <p>Order of the day:</p> <ul style="list-style-type: none"> • (EIT Food & CEBAS CSIC) Presentation round about CEBAS CSIC and EIT Food. • (EIT Food) Introduction of NOVAFERT project & scope of the meeting. • (CEBAS CSIC) Experience on the use / development / study of alternative fertilising products. • (EIT Food & CEBAS CSIC) Identification of SWOT attributes for agreed waste streams – wastewater, sludge, animal manure, digestate, biowaste, organic by-products. <p>Minutes:</p> <p>Conversation focusing on the use of reclaimed water in agriculture given his specialisation; some experience with sludge but not discussed.</p> <p>Context: Murcia is very advanced in the use of reclaimed water in agriculture. As a starting point, the wastewater treatment technology in place in the region is one of the most advanced.</p> <p><u>Strengths</u></p> <ul style="list-style-type: none"> • Potential to reduce the need of external inputs. Depending on the source of wastewater and type of treatment, a farmer can save 10 – 30% of N and P; and in some occasions higher 			

amounts of K as this nutrient is almost not removed in the treatment process (not dangerous to environment).

- Stable water source – A minimum amount is always available as it is fed from wastewater treatment plants.

Weaknesses

- Full potential of reclaimed water (access to water source, recovery of nutrients and saving on agricultural inputs) is only attained applying good practices. This requires continuous measurement of water composition, in order to adjust other parameters (pH, EC, nutrients) and fertilisation. Nowadays, accurate sensing technology is not accessible for everyone.
- Need to educate users (farmers) for a good management of this resource...Potential blockage of some nutrients due to incompatibilities between the fertilising plan & reclaimed water composition.
- Nutritional requirements of the crops vary over the cropping period, depending on the phenological stage; reclaimed water shall be used in combination with other water sources in order to balance the requirements.
- Depending on the wastewater treatment process, some of the water obtained can have very reduced amount of nutrients.
- Concerns on water's EC and pH levels.
- Composition of the reclaimed water varies with water sources, therefore an annual characterisation is needed.

Opportunities

	<ul style="list-style-type: none"> • A lot of scientific work has been done in the past decades on the subject; regulations set a framework to increase the safety perception of this resource. • Potential environmental benefits taking into consideration LCA – avoidance of the release of excess of nutrients. <p><u>Threads</u></p> <ul style="list-style-type: none"> • European regulation highly restrictive, might limit the adoption by some growers as they do not have the capacity to invest nor manage the tertiary treatment (if not assumed by the wastewater plants, or other parties) and /or might affect the prize of the water. Regulation should focus not on the water arriving to the farm, but on the quality of the water used for irrigation. • Double standards for different water sources (i.e., river flows, groundwater, reclaimed water) can limit the adoption of reclaimed water in agriculture, as it might be easier to use other sources (when available).
ADDITIONAL MATERIAL TO BE INCLUDED	
LINKS (if any) TO THE RELATED PRESENTATIONS, PUBLICATIONS, ANNOUNCEMENTS IN THE ORGANISERS' WEBSITE, ETC.	

NEXT STEPS (if any)	<ul style="list-style-type: none"> • Transfer data to relevant NOVAFERT partners. • Make intros between Pilar Zapata (Bioazul) and Francisco (CEBAS) to explore the collaboration within the RWG.
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ANDALUSIAN REGIONAL WORKING GROUP EVENTS REPORTING				
EVENT	Meeting to enlarge the RWG			
DATE AND LOCATION (if applicable)	28/06/2023 – Online			
FACILITATOR (consortium partner)	Pilar Zapata – BIOAZUL			
PARTICIPANT(S) (add as many rows as needed)	Fulgencio Contreras López	IMIDA, Murcian Institute for Agricultural and Environmental Research and Development	Technician of the Research Results Transfer Office (OTRI) for the Sustainability and Fruit and Vegetable Quality Team	Research centre
	María del Pilar Flores Fernández-Villamil	IMIDA, Murcian Institute for Agricultural and	Researcher and Coordinator of the Sustainability and	Research centre

		Environmental Research and Development	Fruit and Vegetable Quality Team	
	José Fenoll Serrano	IMIDA, Murcian Institute for Agricultural and Environmental Research and Development	Researcher and Coordinator of the Sustainability and Fruit and Vegetable Quality Team	Research centre
	María Pilar Hellín García	IMIDA, Murcian Institute for Agricultural and Environmental Research and Development	Researcher of the Sustainability and Fruit and Vegetable Quality Team	Research centre
	Pilar Zapata Aranda	BIOAZUL S.L.	Senior Project Manager	SME
	Antonia María Lorenzo López	BIOAZUL S.L.	CEO and R&D&I Director	SME

DESCRIPTION OF THE MEETING CONTENTS AND MAIN OUTCOMES	<p>The meeting was devoted to introduce NOVAFERT project, explain the main outcomes expected and the potential activities in which they could collaborate and enlarge the RWG with the participation of this relevant research centre from the neighbouring Murcian region.</p> <p>In addition, possible synergies and potential joint actions in our respective regions, Andalusia and Murcia, were also discussed.</p> <p>In addition, the NOVAFERT SWOT analysis under development was introduced to IMIDA to check their opinion on the attributes identified up to that moment and ask for potential new ones.</p>
ADDITIONAL MATERIAL TO BE INCLUDED	
LINKS (if any) TO THE RELATED PRESENTATIONS, PUBLICATIONS, ANNOUNCEMENTS IN THE ORGANISERS' WEBSITE, ETC.	
NEXT STEPS (if any)	<p>Presential meeting to be organised in Murcia, where the discussion about the SWOT attributes will continue.</p>

ANDALUSIAN REGIONAL WORKING GROUP EVENTS REPORTING	
EVENT	Meeting to check potential collaborations with RWG members

DATE AND LOCATION (if applicable)	20/07/2023 – Cartagena, Murcia (Spain)			
FACILITATOR (consortium partner)	Antonia Lorenzo – BIOAZUL			
PARTICIPANT(S) (add as many rows as needed)	Antonia María Lorenzo López	BIOAZUL S.L.	CEO and R&D&I Director	SME
	Gemma Castejón	CETENMA, Technology Centre for Energy and the Environment	Director	Technology centre
	José Martín Soriano Disla	CETENMA, Technology Centre for Energy and the Environment	R&D&I Project Coordinator – FER-PLAY project coordinator	Technology centre
	Francisca Sánchez Liarte	CETENMA, Technology Centre for Energy and the Environment	Responsible for the European Projects Office	Technology centre
	Andrés Jesús Lara Guillén	CETENMA, Technology Centre	Environmental Area R&D&I Responsible	Technology centre

		for Energy and the Environment		
DESCRIPTION OF THE MEETING CONTENTS AND MAIN OUTCOMES	<p>The meeting was devoted to continue the discussion initiated with the previous online meeting, sharing the attributes identified for the NOVAFERT project and discussing about them.</p> <p>Joint potential future activities were also discussed; in this sense, CETENMA invited BIOAZUL to participate in the open session of their upcoming FER-PLAY annual meeting, that is intended to take place in October, 18th-20th, 2023. In addition, they suggested us to get in touch with the FER-PLAY project partner in charge of managing the stakeholder engagement activities. CETENMA will put us in touch to organise a meeting.</p> <p>Furthermore, CETENMA has asked BIOAZUL to become member of the External Advisory Board (EAB) for FER-PLAY project.</p>			

**ADDITIONAL MATERIAL
TO BE INCLUDED**



**LINKS (if any) TO THE
RELATED PRESENTATIONS,
PUBLICATIONS,
ANNOUNCEMENTS IN THE
ORGANISERS' WEBSITE,
ETC.**


NEXT STEPS (if any)	<ul style="list-style-type: none"> • Prepare the collaboration for the open session of the next FER-PLAY annual meeting in Cartagena, Murcia. • Organisation of a meeting between FER-PLAY partner in charge of stakeholders engagement and BIOAZUL. • Formalisation of the participation of BIOAZUL in the EAB of FER-PLAY.
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RWG meetings for Catalonia region, Spain

The meetings held until November 2023 (the RWG will continue growing until the end of the project) are reported in the following fiches:

CATALAN REGIONAL WORKING GROUP EVENTS REPORTING				
EVENT	1 st RWG meeting Catalan Region			
DATE AND LOCATION (if applicable)	30/05/2023 – Online			
FACILITATOR (consortium partner)	Ana Robles Aguilar – BETA Tech Center			
PARTICIPANT(S) (add as many rows as needed)	Ferran Soldevila	Sunchemicals	Director	Industry Regulation advisor

	Ignasi Salaet	Fertinagro – Grupo Tervalis	Head of department	Industry fertiliser company
	Sonia Bolos	FCAC	Livestock waste management area	Public sector
	Ricard Carreras	Board for the Sustainable management of livestock in Osona	Coordinator	Public Sector
	Ana Robles	BETA Tech Center	Coordinator of the RWG	University
DESCRIPTION OF THE MEETING CONTENTS AND MAIN OUTCOMES		<p>The regional working group from Catalunya has been established and held its inaugural meeting on May 30th, 2023. The working group comprises members from the quadruple helix, encompassing universities, representatives from the social sector (such as farmer associations and the board of sustainable livestock management in the region) as well as members from a private fertilizer industry, the regional government, consultancies specialising in fertiliser regulation, and private entrepreneurs in the areas of livestock and waste management.</p> <p>The meeting took place online, and the BETA Center, the facilitator of the regional working group, provided an introduction to the NOVAFERT project. The participants discussed the future steps and expectations of the regional group members, and shared preliminary information necessary for conducting a SWOT analysis.</p>		

	<p>The next meeting will be hold before the summer break and our first regional workshop will be organised in November.</p>
<p>ADDITIONAL MATERIAL TO BE INCLUDED</p>	<ul style="list-style-type: none"> • PPt shared with the participants. • Report of attendance from Teams. <p>Photo of the RWG facilitator while the online meeting</p> 
<p>LINKS (if any) TO THE RELATED PRESENTATIONS, PUBLICATIONS,</p>	<p>Ferrán shared his other affiliation: www.bioregulatory.net</p>

ANNOUNCEMENTS IN THE ORGANISERS' WEBSITE, ETC.	
NEXT STEPS (if any)	

CATALAN REGIONAL WORKING GROUP EVENTS REPORTING				
EVENT	Personal interview			
DATE AND LOCATION (if applicable)	16/06/2023 – 13.00 CEST – Online			
FACILITATOR (consortium partner)	Carmen Galindo – EIT Food			
PARTICIPANT(S) (add as many rows as needed)	Beatriz Molinuevo Salces	ItaCyL	Researcher	RTO
	Berta Riaño Irazábal	ItaCyL	Researcher	RTO
DESCRIPTION OF THE MEETING CONTENTS AND MAIN OUTCOMES	ItaCyL group on Bio economy in the agrifood sector (<i>Grupo de Investigación en Residuos Ganaderos y de la Industria Alimentaria</i>) has developed a fertilising product in the framework of the project LIFE Green Ammonia, and would like to contribute with insights about the technology and the difficulties they have seen.			

Order of the day:

- (EIT Food & ItaCyL) Presentation round about ItaCyL and EIT Food.
- (EIT Food) Introduction of NOVAFERT project & scope of the meeting.
- (ItaCyL) Experience on the use / development of alternative fertilising products.
- (EIT Food & ItaCyL) Identification of SWOT attributes for agreed waste streams – wastewater, sludge, animal manure, digestate, biowaste, organic by-products.

Minutes:

Projects related to NOVAFERT in which ITACYL's group working on valorisation of livestock residues is working:

- Live Green Ammonia: <https://www.lifegreenammonia.eu/> → In this project they worked with membrane technology to extract ammonia from digestate and slurry. They treat it to get ammonium sulphate. Originally their intention was not to produce fertilisers but to recover and avoid emissions in areas with high density of farms exceeding the emissions levels allowed. Then they identified the potential as nutrient source and started doing some studies on the fertilising potential.
- Live Ammonia trapping: <http://ammoniatrapping.com/> → Ongoing. Optimisation of technology to bring the technology to a commercial level. Scaleup and concentration of the final product.
- Walnut project. <https://walnutproject.eu/> (Also UGENT). Several pilots under development regarding the obtention of fertilising products from wastewater, brine etc. Each pilot works with different side streams.

ItaCyL is specialised in treatment and extraction technologies.

Waste streams they work with:

- Livestock waste, mainly slurry.
- Some experience in wastewater from agrifood industries (dairy)

Attributes discussed:

Opportunities:

- These type of extraction technologies open up a great opportunity regarding alternative nutrient sources. Even though these are not producing final fertilising products, the outcomes can be used by fertilising companies as inputs.
- Technology can be used to recover and offset excess of nutrients in areas sensitive to N emissions.
- Different products can be attained by changing the parameters / inputs used in the process (type of acid used).

Threads:

- Lack of knowledge and uncertainties on the certification and regulatory frameworks.

Weaknesses:

- Technology discussed under development stage. Unknown interest by the industry.
- Final product is (for now) very diluted and shall be concentrated in order to be able to manage it efficiently.

Strengths:

- Cost-effective process; large amount of waste available across Europe.

ADDITIONAL MATERIAL TO BE INCLUDED	
LINKS (if any) TO THE RELATED PRESENTATIONS, PUBLICATIONS, ANNOUNCEMENTS IN THE ORGANISERS' WEBSITE, ETC.	
NEXT STEPS (if any)	<ul style="list-style-type: none"> • They would like to keep posted about NOVAFERT outcomes -> send link to subscribe to newsletter. • They would like to remain available for future collaborations and any question that might arise. • Transfer the elements of the matrix to the rest of the partners of the consortia, in case of relevance for them (to be done once all interviews are done).

CATALAN REGIONAL WORKING GROUP EVENTS REPORTING	
EVENT	Personal interview
DATE AND LOCATION (if applicable)	19/06/2023 – 14.30 CEST – Online

FACILITATOR (consortium partner)	Carmen Galindo – EIT Food			
PARTICIPANT(S) (add as many rows as needed)	Guillermo Guardia Vazquez	ETSIAAB - UPM	Profesor Contratado Doctor (Associated Professor)	Higher Education
DESCRIPTION OF THE MEETING CONTENTS AND MAIN OUTCOMES	<p><i>Guillermo Guardia is Associated Professor at the Chemistry Department of ETSIAAB (UPM, Madrid, Spain). His group has been studying impacts of nitrogen fertilisation, specially related to GHG emissions.</i></p> <p>Order of the day:</p> <ul style="list-style-type: none"> • (EIT Food & UPM) Presentation round about UPM and EIT Food. • (EIT Food) Introduction of NOVAFERT project & scope of the meeting. • (UPM) Experience on the use / development / study of alternative fertilising products. • (EIT Food & UPM) Identification of SWOT attributes for agreed waste streams – wastewater, sludge, animal manure, digestate, biowaste, organic by-products. <p>Minutes:</p> <p>Short summary of EIT Food and our role in NOVAFERT provided by EIT Food.</p> <p>Short summary of the goals of NOVAFERT project provided by EIT Food.</p> <p>Summary of Guillermo Guardia's activities: he is part of COAPA research group (https://ceigram.upm.es/grupos-de-investigacion/contaminacion-de-agrosistemas-por-</p>			

practicas-agricolas-coapa/) focusing on ecosystem pollution, within the Chemistry department of EISIABB and CEIGRAM (<https://ceigram.upm.es/en/>).

Most of the work done is around evaluation on the nitrogen fertilisation impacts, around GHG emissions, as well as emissions of reactive gases (?) such as N acids or ammonia.

They work on building knowledge around emission mechanisms of different fertilising products, small and medium scale through modelling and long term studies.

Evaluation made on different irrigation systems, different types of fertilising products (synthetic, organic, use of nitrification inhibitors), and different management systems (timing, dosage, conservation agriculture)

Secondary raw materials / organic fertilising products used:

Sludge (few), slurry, manure from different animals.

Attributes for SWOT – general comment of ORGANIC FERTILISING

Strengths:

- Potential to reduce GHG emission upstream the value chain – considering LCA and carbon footprint of synthetic fertilising.
- Opportunities to reduce carbon footprint of the agrifood value chain (reduction of upstream Carbon footprint)
- Some side streams (i.e., manure, compost, biochar) can also contribute to carbon sequestration, which is very much desired to offset other emissions.

Weaknesses:

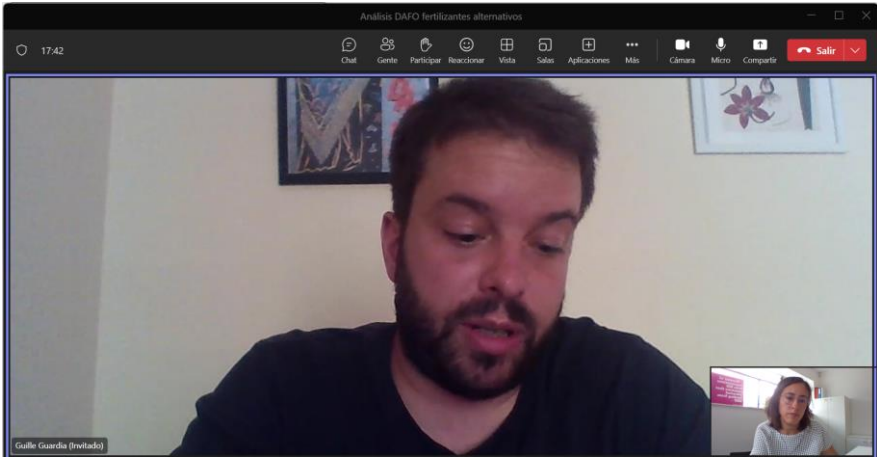
- High diversity of raw materials and waste streams (for organic fertilising products), difficulty homogenising and regulating its application -. Different emissions' profiles, agronomical performance, composition, etc.
- Varying composition of the different organic fertilising sources / raw materials. This means for example that, if you fertilise based on the N content, you might end up applying excess in phosphorous (pollution...) or, if you fertilise based on P, then you might have less N than needed.
- Regional management of waste streams. Availability of waste streams shall be considered at a local level. And end user operating in different regions might need to adapt their fertilising strategy locally, depending on the availability of resources in the region. Transportation of some waste streams / alternative fertilising products might reduce economic and environmental feasibility.

Opportunities:

- Use of secondary raw materials from organic sources (i.e. Ammonia extracted from manure, as explained during ItaCyL's interview on Life Green Ammonia) can be interesting to supplement deficit in N from different nutrient sources.
- Opportunity within European policies, fully aligned.
- Potential improvement of cost-benefit for end users (when well managed).

Threads:

- For optimising the use of organic fertilising products you need to have a good understanding of the nutrient release patterns... otherwise you might have: (a) excess of N not used at the

	<p>end of the season, and therefore leakage; (b) lower dosage than needed, and therefore lower yields.</p> <ul style="list-style-type: none"> Organic doesn't necessarily mean lower emission than synthetic fertilising products (in terms of direct emissions), e.g. slurry when not well managed.
ADDITIONAL MATERIAL TO BE INCLUDED	
LINKS (if any) TO THE RELATED PRESENTATIONS, PUBLICATIONS, ANNOUNCEMENTS IN THE ORGANISERS' WEBSITE, ETC.	
NEXT STEPS (if any)	<ul style="list-style-type: none"> Share information about the SWOT analysis with relevant partners within NOVAFERT's partners.

- Guillermo agrees on a follow up in case any of the partners wants to dive deeper into the points identified.

CATALAN REGIONAL WORKING GROUP EVENTS REPORTING				
EVENT	4 th RWG meeting in the frame of a technical day organized together with the Department of Climate Action from Catalonia and the Fertimanure project.			
DATE AND LOCATION (if applicable)	18-10-2023, Vic, (Spain)			
FACILITATOR (consortium partner)	Ana Robles Aguilar (BETA Tech Center)			
PARTICIPANT(S) (add as many rows as needed)	ANA ROBLES	BETA	Researcher	Researcher
	VANESSA NOGALES			Farmer
	JOAN RAMÓN ARMENGOL	Cobirgy		Farmer
	CRISTINA MARTÍNEZ			Technic
	PEDRO GÓMEZ			Technic
	ENRIC VILALTA			Agriculture specialist

	DANIEL ISRAEL JIMÉNEZ			Agriculture specialist
	ORIOL GUILLAMET	Regional Government		Environmental specialist
	AXEL AVILA			Environmental specialist
	VICENT GOZÁLVEZ			Environmental specialist
	JOSEP VICENS	Apergas		Energy specialist
	NARCÍS ARBUSSÀ	Adial		Consultancy livestock
	MABEL MORA	Beta	Researcher	Researcher
	XAVIER RÚBIES	Friselva		Researcher
	ALBERT PALOU	Beta	Communication officer	Communication
	LAURA MEJÍAS	Beta	Researcher	Researcher
	FRANCESCO OFFEDDU	Beta	Researcher	Researcher

	ESTHER VEGA	Beta	Researcher	Researcher
	ROSA VILAPLANA	Beta	Researcher	Researcher
	XAVIER SÁEZ			Other
	GERARD CASAS			Other
	MARIONA DE PLANELL			Other
	PERE VALLBONA			Other
	SONIA BOLÓS	FCAC		Other
	EUGÈNIA HERNÁNDEZ	Regional Government		Other
	MANEL ARMENGOL	Beta	Researcher	Other
	PERE TRAPÉ			Other
	ALBERT GARCÍA			Other
	GERARD PEDRÓS			Other
	TRACEY BAUCCELLS			Other
	MERITXELL AGUILAR			Other

	RAQUEL SEBASTIÁN			Other
	CAROLA DANÉS			Other
	FERRAN DOLIÚ			Other
	CARLOS CASTRILLO			Other
	ALBERT BELART	Labin		Other
	GUILLEM PINTÓ	Regional Government		Other
	JORDI MARZÀ			Other
	GEMMA MUNS	Cooperativa Plana de Vic		Other
	POL GRIFUL	Agrocat		Other
	CELIA CASTAÑEDA	Labin		Other
	MÒNICA JIMÉNEZ	Gap cooperativa		Other
	JORDI SALVADÓ	Regional government		Other
	JACINT PINSACH			Other
	M.CARME SOLER			Company

	ARNAU CAPDEVILA			Other
	LAIA LLENAS	Beta	Deputy Director	Researcher
	SERGIO PONSÁ	Beta	Director	Researcher
	JORGE SENAN	Beta	Researcher	Researcher
<p>DESCRIPTION OF THE MEETING CONTENTS AND MAIN OUTCOMES</p> <p>About fifty people participated in a PATT Conference on new bio fertiliser products recovered from livestock manure, organised by the UVic-UCC BETA Technology Centre. The aim was to discuss about Technical considerations and regulatory framework of Bio fertilisers made from nutrients recovered from livestock manure. The event took place in the Gothic Hall of the UVic, and brought together various actors interested in the valorisation of livestock manure to show some of the latest advances obtained in European projects underway in this field, as is the case of NOVAFERT and FERTIMANURE.</p> <p>The initial part of the PATT Conference (Annual Technology Transfer Plan) gave way to presentations by several representatives of the Department of Climate Action, Food and Rural Agenda (DACC). These interventions served to review the trends that the livestock sector across Europe is following to process and valorise the manure, but also to outline the actions that are being carried out in Catalonia with the aim to improve fertilisation practices, always with an eye on the climate neutrality objectives to be achieved by 2030 and 2050. Afterwards, the deputy director of CT BETA and coordinator of the FERTIMANURE project, Laia Llenas, presented the bio fertiliser products obtained in the five biorefineries that this project has built in several European countries, and whose agronomic performance is being studied, if it fits with the current regulation and the real market exit potential.</p>				

After that, CT BETA researchers Ana Robles and Jorge Senán introduced the NOVAFERT project, which has already begun work to demonstrate the technical, economic and environmental viability of a wide portfolio of alternative bio fertiliser products recovered from various types of organic waste.

The day's program was completed by the intervention of a representative of the company Sun Chemical Services, around the regulatory framework that affects these new products, and a presentation on their potential application in organic agriculture by Nagore Guerra and Ricard Carreras, CT BETA researchers.

Finally, a participatory activity was carried out with the attendees to determine their perception and acceptance of the new bio fertiliser products after presenting the results of the SWOT analyses carried out by the NOVAFERT project, to finalise with the possibility of traveling to Muntanyola to visit a pilot biorefinery.

The annual program of Jornades PATT is one of the instruments of reference for the transfer of knowledge, training and capacity building in the agri-food and forestry sector in Catalonia. Coordinated by the DACC, each year it has the collaboration of more than 250 entities and organisations from these sectors, companies, universities and research centers and other administrations.

This event was useful to receive feedback on the swot analysis made for the Catalan region, and reach out to new farmers and companies to be considered living labs and case studies for the LCA.

ADDITIONAL MATERIAL TO BE INCLUDED





LINKS (if any) TO THE RELATED PRESENTATIONS, PUBLICATIONS, ANNOUNCEMENTS IN THE ORGANISERS' WEBSITE, ETC.	<p>Beta Tech Center — Biofertilizants en base a nutrients recuperats de dejeccions ramaderes: Consideracions tècniques i marc normatiu.</p> <p>Biofertilizants en base a nutrients recuperats de dejeccions ramaderes - U-Divulga (uvic.cat) .</p> <p>get file (gencat.cat) .</p> <p>BETA Tech Center en X: "🌱 Produir #biofertilizants a partir de nutrients recuperats de la valorització de dejeccions ramaderes pot ajudar a resoldre el repte de la gestió d'excedents. ▶ Aquests nous productes són competitius en el mercat? N'hem parlat amb el sector a #Vic. 🔗 https://t.co/oqem05YOfM https://t.co/xskWJAQA13" / X (twitter.com) .</p> <p>El CT BETA organitza una jornada PATT a Vic sobre biofertilizants recuperats a partir de dejeccions ramaderes L'apunt (uvic.cat) .</p>
NEXT STEPS (if any)	<p>The outcomes of the workshop were considered to fine tune the SWOT analyses made for the Catalan region.</p> <p>Some interesting companies from the sector were identified, and they will be contacted to be studied as possible living labs from the region.</p>

