FERTIMANURE

Deliverable

Project Acronym: FERTIMANURE

Project full name: Innovative nutrient recovery from secondary sources – Production of high-added value FERTIlisers from animal MANURE

Grant Agreement No. 862849

D7.6. Dissemination and Communication Plan (M54)

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Contributor(s)	All partners

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Preface

The communication and dissemination plan (M54) is part of WP 7 Dissemination and Communication and more specifically of Task 7.1 Audience segmentation & Dissemination and communication plan. One of the FERTIMANURE tasks is to communicate and disseminate about the project via different means and to different target audiences (stakeholder groups) throughout the project's lifetime. The communication and dissemination plan is a tool that was used throughout the duration of the project (M54), and it has been updated during the project, in January 2022 (M25) an updated version of the initial Dissemination and Communication Plan was submitted as an update of the initial version prepared in M6. This deliverable represents the latest version of the FERTIMANURE Dissemination and Communication Plan and covers the following period: January 2020 to June 2024.

The report includes an updated overview of the concepts of Communication and Dissemination and action plans that the consortium followed to promote the project, to foster the knowledge of its results and to ensure their uptake for future business opportunities. It also shows the stakeholder groups, the engagement strategy to get to these groups specifically, and the means that have been used to showcase the information of interest to them. It also includes an overview of all the communication materials developed to help maximize the impact of achieved results. It is important to mention that this deliverable was also updated based on D6.8 Fertimanure plan for exploitation and dissemination of results.

This document is divided into: (i) Communication activities and (ii) Dissemination activities.

Document History

Date	Author	Action	Status
May 24th, 2024	Isabelle Grommet	1st draft revision	Draft
June 19th, 2024	Laia Llenas	1st draft revision	Draft
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June 27th, 2024	Laia Llenas	Approved by UVIC	Approved by PC
October 1st, 2024	Stéphanie Roosa	Revision after reviewer's comments	Reviewed version

Summary

The main objective of the FERTIMANURE project is to develop, integrate, test and validate innovative Nutrient Management Strategies to efficiently recover mineral nutrients and other relevant products with agronomic value from animal manure, to finally obtain reliable and safe fertilisers that can compete in the European fertilisers market.

The FERTIMANURE project demonstrated the performance of **5 different and complementary on-farm pilots** installed in different EU countries that proposed different technological approaches to recover nutrients from animal manure. The 5 on-farm pilots recovered **18 different Bio-based fertilisers (BBFs)**. FERTIMANURE has demonstrated the efficiency and effectiveness of the obtained Bio-based fertilisers (BBFs) and Tailor-made fertilisers (TMFs) and their ability to replace current mineral fertilisers, including:

1. **Tests under controlled conditions (incubation and pot-tests):** Assessment of: (1) N and C release patterns; (2) P plant availability; (3) Biological activated organic amendments as plant growth promoters; (4) Biostimulants assessment as plant growth promoters for the nutrient uptake and tolerance against hydric & saline stress. Crops under assessment: grass, ryegrass, tomato, radish, lettuce, swiss chard, spinach.
2. **Field validation in a real environment**: Agronomic performance in quadruplicate-randomized block design; Environmental performance, including nutrient efficiency vs losses. Crops under assessment: Winter wheat, silage maize, lettuce, sauerkraut cabbage, sugar beet, ryegrass.

The circular economy strategy proposed in the FERTIMANURE project specifically provides **3 innovative nutrient management strategies**:

1. Direct use of the BBFs obtained by treating manure with innovative technologies;
2. Centralised TMF production and
3. On-farm TMF production.

Communication and dissemination activities have as main objective to reach out the most relevant stakeholders, beyond the project's own community and promote the impact and benefits of the EU-funded projects in a strategic and effective manner. They play an important role in increasing the impact of an H2020 project.

According to the Article 29 of the Grant Agreement “Unless it goes against their legitimate interests, each beneficiary must — as soon as possible — ‘disseminate’ its results by disclosing them to the public by appropriate means (other than those resulting from protecting or exploiting the results), including in scientific publications (in any medium). This does not change the obligation to protect results in Article 27, the confidentiality obligations in Article 36, the security obligations in Article 37 or the obligations to protect personal data in Article 39, all of which still apply. The Grant Agreement shows the obligation to communicate and promote project action and to do that without breaching the obligations of Article 29 on the dissemination of the results, reiterating the importance to take an integrated approach to carry out the communication together with dissemination activities to maximize the impact of the project.

Linked to the PEDR (D6.8) but specifically addressed to communication activities, the communication and dissemination plan was initially developed in M6 and then revised in January 2022. The aim of this document was to develop the communication strategy and define the tools needed to communicate effectively with different audiences during the life of the project. It was also considered the possibility of changes in the interest of potential stakeholders, which led to the plan being scrutinised and updated on a regular basis. Procedures, objectives and communication tools were continuously evaluated to achieve maximum impact, so the original plan may have undergone some modification during the course of the project.

- **PART 1: Communication**

Throughout the project, we always kept in mind the need to create awareness of the EU initiatives and promote the project and its results to a very differentiated target audience ranging from stakeholders and investors to the media and general public.

***Increasing the public awareness and improving the knowledge of stakeholders on the current challenges that manufactured fertilisers pose, as well as the benefits of waste stream valorisation for obtaining bio-based fertilisers (BBFs), and tailor-made fertilisers* (TMFs) is the main communication objective of the FERTIMANURE project.**

The communication plan had a crucial tool in our project as it outlined how we were going to disseminate essential project information to key stakeholders.

The **objectives of the communication plan** were as followed:

1) Definition of the purpose and the goals for communication efforts.
2) Identification of the target audience and understanding their needs and preferences.
3) Key messages to be conveyed to the audience.
4) Selection of the appropriate channels and tools for message delivery.
5) Timeline for when communications were sent.
6) Allocation of the responsibilities among members for various communication tasks.
7) Measurable objectives to evaluate the effectiveness of the communication efforts.
8) Ensuring consistency in messaging across all platforms and communications.
9) Adapting the strategy based on feedback and the evolving context of the project or initiative.

These objectives had to be SMART — specific, measurable, achievable, relevant, and time-bound. They served as a roadmap for clear and effective communication, ensuring that all stakeholders are informed and engaged throughout the process. Moreover, the research activities carried out had to be outlined in a language that could be understood by multiple audiences, including non-specialists. Communication was relevant from the start of the project and the aim was to inform the audience on the goals and benefits of the project.

- **Part II: Dissemination**

Dissemination is more focused on fostering the transfer of knowledge created within the project to make the results available for others to use. The scientific community, the industrial partners, and the policymakers represent the target audience for a dissemination action.

The **objectives of the dissemination plan** were as followed:

1) Disseminate information: disseminating research results, new policies, good practice.
2) Reaching the targeted stakeholders
3) Influencing behaviour: By disseminating relevant information, the dissemination plan has influenced the behaviour of individuals and/or groups.
4) Create awareness: The dissemination plan has helped to raise public awareness
5) Promote engagement: The dissemination has encouraged the active engagement of stakeholders (participation in workshops,)

In short, the dissemination plan of the FERTIMANURE project aimed to **maximise the impact** of the project outcomes by making it accessible, relevant and influential to the target audience.

Communication and dissemination obligations, these include:

1. EU funding phrase and flat
2. EU disclaimer
3. Partner obligation and protection data

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BBF	Bio-based Fertiliser
TMF	Tailor-made Fertiliser
EU	European Union
WPL	Work Package Leaders
PTM	Project Technical Committee meetings
CELAC	Community of Latin American and Caribbean States
SG	Stakeholder Group
C&DWPL	Communication and Dissemination WP leader

1. Introduction

FERTIMANURE is a European project funded by the H2020 programme under Grant Agreement No. 862849. The mission of the FERTIMANURE project is to provide innovative solutions (technology, end-products, and business models) that solve real issues, the manure challenge, and help farmers with the challenges that they are currently facing. FERTIMANURE will develop, integrate, test and validate innovative nutrient management strategies so as to efficiently recover and reuse nutrients and other products with agronomic value from manure, to ultimately obtain reliable and safe fertilisers that can compete in the EU fertiliser market.

A plan for communication and dissemination via different types of activities was essential to make sure that the impact of the project goes beyond the project borders. Creating a roadmap was essential so that every activity carried out had already identified the group of stakeholders that had to be involved.

One of the objectives of WP 7 was to produce an initial communication and dissemination plan and revised it along the project, which is part of WP 7 Dissemination and Communication, but more specifically with Task 7.1 Audience segmentation & Dissemination and communication plan. This plan revolved around the following:

- Identifying the most important stakeholder groups (the target audience)
- The branding, the project website and social networks; including those of the project partners
- The communication and dissemination material (leaflet, roll-up, videos, newsletter, press release)
- The biorefined cluster community group
- The scientific publications
- EIP-practice abstracts
- Conferences and events
- Webinars
- Intermediate events
- On-farm experimental pilot visits
- Final conference

Some of these activities took place from the beginning of the project (M1), others towards the end of the project.

2. Methodologies and Organisation

In order to produce the communication and dissemination plan, GreenWin proposed an initial version in M6, and it was closely revised by the different project partners. Their feedback was very important to know if the information that deliverable contains was in line with the activities that they were expecting to carry throughout the project's lifetime.

To collect all the information and details GreenWin has been in close contact with the different project partners. Specific templates have been created: events / scientific publications and publications in Magazines templates Every 3 months GreenWin asks the different partners to fill-out these, so that all of the information regarding these topics was compiled in a single document. It was a good way of tracking the events that the different project partners have attended.

GreenWin took also advantage of the PTC (Project Technical Committee), that takes place once a month and counts with the participation of all the WP leaders, to discuss the different activities that are being carried out, and to get feedback from their side. Also, GreenWin took advantage of these meetings to ask for specific information, like for example the types of stakeholders that attended the specific events where the project partners presented FERTIMANURE, the amount of people that attended, newsletter translation to their local language so that it can get to the targeted stakeholders, etc.

Another way to collect the info was the quarterly report. GreenWin asked partners to update the tables if the information was missing.

If there was a specific issue that needs to be discussed in more details and with a stricter deadline, then a Teams meeting was performed with the targeted partners. During this meeting and with the partner involved in the activity, we discussed the issue, as to get the expected results in terms of the planning of the communication and dissemination.

3. Target audience for communication and dissemination activities

The overall aim was to maximize the utilization of the dissemination potential of the FERTIMANURE consortium. Dissemination activities had to be tailored in such a way as to reach the audiences most efficiently through appropriately selected dissemination channels and dissemination tools.

To convey the right message to the right stakeholders, the most appropriate channels had to be used. The **FERTIMANURE audience was manifold:**

- **Key agriculture and industry players**: Livestock farmers, fertilisers (manufacturers & sellers) and the chemical industry were updated on the applications that can be made of manure as well as the exploitation and replication possibilities of the project results. Arable farmers, crop growers and producers were sensitive to the use of alternatives to conventional fertilisers.
- **Research and education community**: Research institutions, relevant EU projects and networks, in particular the Nutrient recovery community, received updates about the technical and scientific project progress.
- **Policy makers and authorities:** Public procurers, local council and regional government of the region involved in the partnerships and National and European-level policymakers were awakened to their driver role in the market uptake of bio-based products.
- **Investors in bioeconomy:** Public and private investors were informed about the exploitation opportunities and possible commercial development of FERTIMANURE.
- **Industry of equipment supply:** Contact with an industry that is interested in proposing new mature technologies to answer challenges of the Circular economy allowing future development of FERTIMANURE technologies in the real economy.
- **Rural communities and society:** Engaging with the general public and rural communities promoted the environmental and health benefits of biofertilisers. The idea was to raise public awareness of the necessity of a transition towards a greener economy as well as the advocacy role the public can play in boosting the EU bioeconomy.

A detailed stakeholder analysis (WP6) was carried out to comprehensively understand and segment the FERTIMANURE audience. Within the project, 6 stakeholders' groups were identified. It is important to mention that the stakeholder groups were analysed according to the influence they might have in the project, as well as the impact that the project has for them in their business activities.

The target audience for the Communication activities can be seen below:

TABLE 1 : THE TARGET AUDIENCES IDENTIFIED FOR THE FERTIMANURE PROJECT COMMUNICATION ACTIVITIES

	**STAKEHOLDER GROUP 1 (SG1)**	**agricultural producers**	1) livestock farmers 2) arable farmers, crop growers 3) agro SME´s 4) agro associations 5) sustainable agriculture associations
	**STAKEHOLDER GROUP 2 (SG2)**	**fertilisers processing industry**	1) Fertiliser companies (manufacturers and sellers, both mineral and organic) 2) chemical industry 3) manure processors 4) public investors in bioeconomy 5) private investors in bioeconomy 6) technology providers 7) fertiliser association
	**STAKEHOLDER GROUP 3 (SG3)**	**academia and research**	1) research institutions 2) EU subject related networks and clusters (agro - industry, sustainable chemistry) 3) EU R&D neighbouring projects and consortiums 4) nutrient recycling research community
	**STAKEHOLDER GROUP 4 (SG4)**	**business and financial advisors**	1) business consultants 2) financial institutions 3) agricultural banks 4) funding agencies
	**STAKEHOLDER GROUP 5 (SG5)**	**policy makers & authorities**	1) ministries of agriculture 2) paying agencies for agriculture 3) agro-connected intermediaries established by government (extension service, LAGs) 4) local council 5) regional government 6) waterboards 7) standardization body 8) EU policy makers 9) CELAC policy maker
	**STAKEHOLDER GROUP 6 (SG6)**	**public entities & general public**	1) non- governmental organisations 2) media 3) general public – rural communities

4. Key Messages

Key messages are essential in communication because they help to create focus, control, and intensity in influencing our target audiences. They are the core ideas, values, or benefits that we want to communicate, serving as the foundation of our FERTIMANURE overall communication strategy.

The following questions have been addressed in the communication materials:

- What are the main objectives/goals of FERTIMANURE?
- What are the main opportunities FERTIMANURE offers?
- Why is the European Added value of FERTIMANURE?
- Why is FERTIMANURE important for the farming industry?
- What are FERTIMANURE's expected impacts?
- What are going to be FERTIMANURE's outputs?
- Who are the partners involved in FERTIMANURE?
- Who should you contact if you have any question regarding FERTIMANURE?
- What are the most important pilots' advancements?
- How many pilots are there in the project?
- What are the most important events where FERTIMANURE has participated?
- What is the role of each project partner in the project?
- What is the role of the CELAC region countries in the project?
- How will the general public benefit from the use of BBFs and TMFs?
- What are the different FERTIMANURE communication channels that the beneficiaries can follow to get more information about it?
- What is the Organization that has funded the FERTIMANURE project?

5. Report on the FERTIMANURE's project communication activities

5.1 Definition and Main Objective

According to the EC Research and Innovation Participant Portal Glossary Terms, we can define Communication as follows: "Communication on projects is a strategically planned process that starts at the outset of the action and continues throughout its entire lifetime, aimed at promoting the action and its results. It requires strategic and targeted measures for communicating about (i) the action and (ii) its results to a multitude of audiences, including the media and the public and possible engaging in a two-way exchange".

Increasing the public awareness and improving the knowledge of stakeholders on the current challenges that manufactured fertilisers pose, as well as the benefits of waste stream valorisation for obtaining bio-based fertilisers (BBFs), and tailor-made fertilisers (TMFs) is the main communication objective of the FERTIMANURE project.

To achieve this objective, it was very important to communicate and to make the different stakeholders understand:

- What are the main impacts of the current dependency of EU agriculture on fossil-based mineral festilisers and scarce resources?
- What are the main benefits for all the stakeholders in the value chain when valorizing the manure from the livestock sector to obtain bio-based fertilisers and tailor-made fertilisers?
- What are the main environmental impacts when using bio-based fertilisers and tailor-made fertilisers in agricultural soils?
- What are the main opportunities that FERTIMANURE can offer to those facing challenges related to inefficient use and management of animal manure?

5.2 Communication channels / Activities

The communication activities of the FERTIMANURE project took place through the following activities/channels: Branding / Website / Social networks / Videos / newsletters / press releases / Roll-up-Folders and Posters. We have developed and used as many communication materials and channels as possible to achieve our dissemination objectives.

TABLE 2 : COMMUNICATION CHANNELS/ACTIVITIES

	What was expected: Description of activities	*What have been done during the project*
Branding	Create a single brand for the project. Branding activities include designing a logo (M3), a common email signatures for all partners, common PowerPoint template to be used for all project-related presentation.	A strong single brand has been created for the project. Which included : logo, a common email signatures for all partners, common PowerPoint template to be used for all project-related presentation.
Social networks	Social media pages (Twitter, LinkedIn) will be set-up to showcase the project and update on its results.	Social media pages LinkedIn and Facebook have been set-up to showcase the project and update on its results. Partners were also engaged to share the FERTIMANURE posts and news on their personal and/or institution social media pages and website.
Website	Website (www.fertimanure.eu); available in English and Spanish to inform on the project and its main achievements.	A Website (www.fertimanure.eu) available in English and Spanish has been developed an updated on a regular basis.
Leaflets – Posters – Roll up	About 1000 leaflets in English and in Spanish (50-50) will be produced together with project posters and roll-ups (4). A general FERTIMANURE presentation (context and objectives) will be set up. It will be available in all the consortium languages and will be frequently updated to match the project and its evolution.	A first leaflet was produced in English and Spanish in M6 when the project started and it included general information about the project like the objectives, the expected impacts, the outputs, the partners, the value of the project, etc. A second leaflet was also produced for the final event of FERTIMANURE in Brussels. In this case, the final leaflet included a summary of the main project outcomes. Roll up and posters: During the duration of the project different roll up and posters have been produced to give visibility to FERTIMANURE during events and conferences.
Videos	We will produce an impacting and vulgariser short video showcasing	A specific FERTIMANURE YouTube channel has been created. Initially, only a FERTIMANURE general video was foreseen. However, at the end, the project has also produced a video explaining 4 of the 5 on-farm pilots: Spanish pilot,

	FERTIMANURE. The video will be in English with Spanish subtitles.	Dutch pilot, Belgian pilot and German pilot. Moreover, the general project video of the project has also been translated to all the partners languages. Last but not least, a final Facts and Figures video has been produced

Press releases	A first press release briefly describing the project, its objectives and the consortium will be produced (M5) and sent out in all countries involved in the project. This press release will thus be produced in the different partners language. The project's milestones and every major FERTIMANURE result or event will also be advertised through press releases. At least 4 press releases are expected to be prepared.	3 press releases have been produced to participate to the dissemination of the project. Specialized and non-specialized journalists have been identified. They are the ones that interest the project most since we wanted to reach out to the targeted audience. All the project partners were involved in creating the content and also to establish a common list of journalists. The press releases have been sent to 49 european journalists
Newsletters	A newsletter outlining FERTIMANURE results as well as relevant news from the partners will be released on a biannual basis (8 newsletters) to 400 stakeholders by the end of the project.	6 Newsletters have been produced and distributed to 230 stakeholders/newsletter during the project. A final newsletter outlining FERTIMANURE results has been developed.

5.2.1 Branding

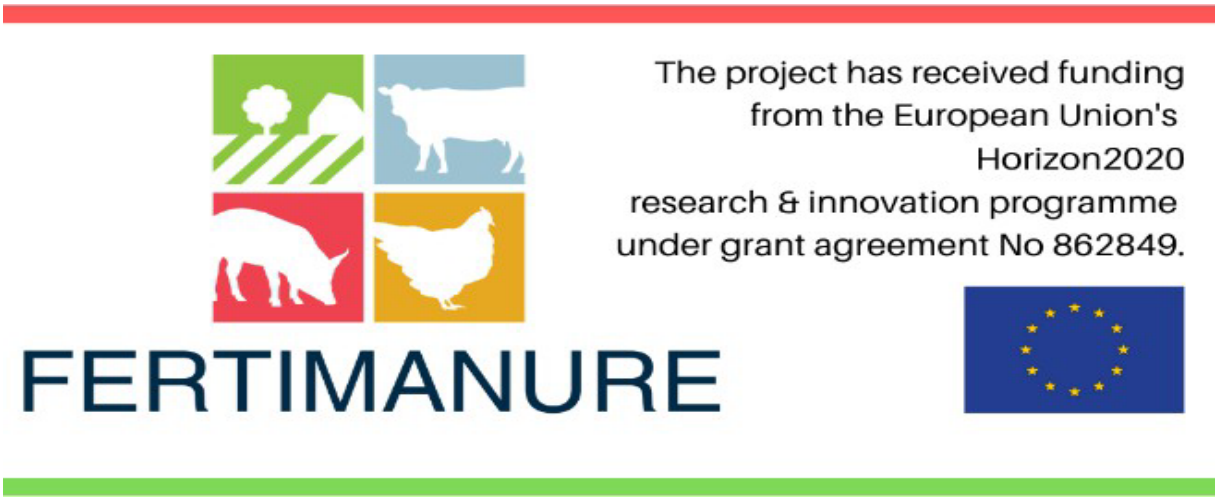
A strong single brand has been created for the project. Branding activities included designing a logo, a common email signatures for all partners, common PowerPoint template and events template and common deliverable template to be used for all project-related presentation.

Examples:

- **logo**

Guidelines for the logo were created and these include the different logo versions, the colours, the logo size, the font, etc. See Annex I: Logo Guidelines

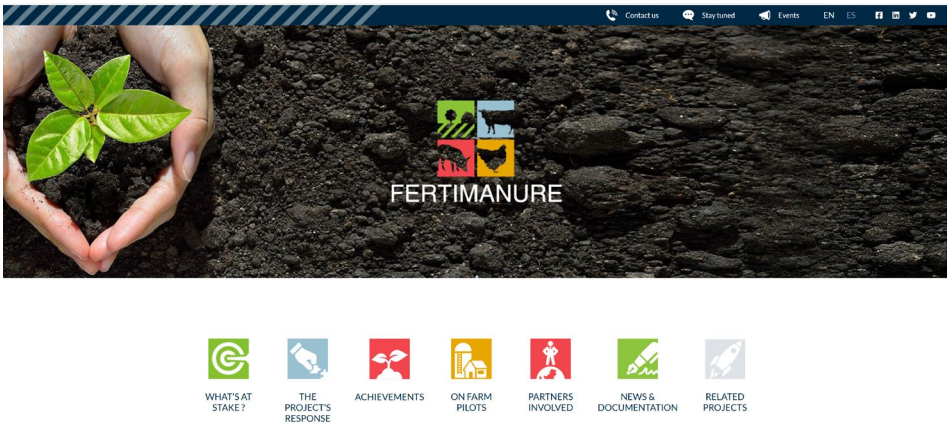
- **e-mail signature**



5.2.2 Website

FERTIMANURE's website has been designed in an easy and friendly way and also in both languages – English and Spanish - to make sure that the interested stakeholders will find the information they are looking for. The website was launched on May 8th, 2020 and its domain is www.fertimanure.eu

The FERTIMANURE website showcases a description of what is at stake, a description of what the project is about, the list of the partners involved in the project, the publications, an explaining video of the main concept of the project. A new menu called achievements has been created in April 2024 to disseminate the last results of the project.



Key Performance indicators expected	*What has been achieved*
It is estimated that the project website will receive 8,000 visits by the end of the project.	Since the project website is online (M6) until May 31st 2024, the website has received more than 15.000 visits. The last year of the project (May 23 to May 24) we had around 250 visitors/month. Also partners' websites were used to share the publications and important communication and dissemination material related to the project to allow a greater audience reach.

5.2.3 Social Networks

Social media pages LinkedIn, X and Facebook have been set-up to showcase the project and update on its results. Partners were also engaged to share the FERTIMANURE posts and news on their personal and/or institution social media pages and website.

- LinkedIn (https://www.linkedin.com/company/64863294/admin/)
- X (@fertimanure https://twitter.com/fertimanure)
- Facebook (https://www.facebook.com/fertimanure/)

The social networks and the website were under the responsibility of GreenWin, but with input from the rest of the partners regarding the information that can be shared on the communication channels.

Key Performance indicators expected	***What has been achieved***
Twitter, Facebook and LinkedIn: 400 followers	*Key Performance Indicator for FERTIMANURE's social networks (up to June 2024):* LinkedIn: 799 followers Facebook: 106 followers X (Twitter): 395 followers

5.2.4 Leaflets, Posters and Roll-up

The first leaflet was completed in M6 of the project and it included general information about the project like the objectives, the expected impacts, the outputs, the partners, the value of the project, contact information and the EU phrase regarding the funding. The main objective of the project leaflet was to provide our audiences with an attractive and written project overview and a summary of the main project objectives and characteristics. To assist the dissemination effort, the attractive and professionally made leaflet, prepared by GreenWin, was published on the project website.

This leaflet (1,000 leaflets printed) has been given to all the partners so that they could distribute them during the FERTIMANURE's presentations in different conferences, workshops, congresses, events, etc. It was also downloadable on the website.

A second and final leaflet with the main results has been developed and printed especially for the final event April 2024. It has been published on the project website too.

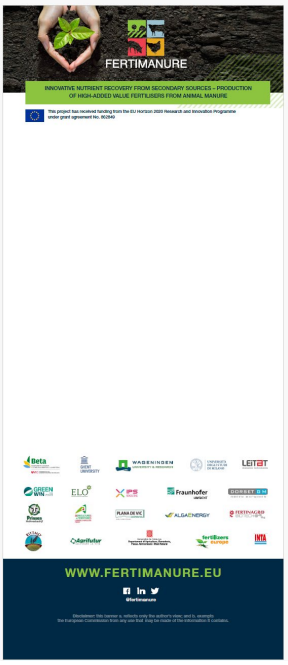
REVEALED ! FERTIMANURE'S FINAL LEAFLET ON THE PROJECT RESULTS !

21/05/2024

Yours to download and be inspired !

Read more

During the duration of the project, different **posters** had to been created to give visibility to FERTIMAURE in different events. Each of them contained different types of information that was updated accordingly. GreenWin was in charge of producing the template of the poster and the roll-up used by the project partners.



Key Performance indicators expected	*What has been achieved*
Leaflets: more than 1000 leaflets in English and Spanish. Poster: 1 template for partners to use. Roll-up: 1 template for partners to use.	2 leaflets developed and printed. More than 1.000 leaflets printed and distributed in the different workshops and events. Poster and roll-up template: KPI achieved (see above)

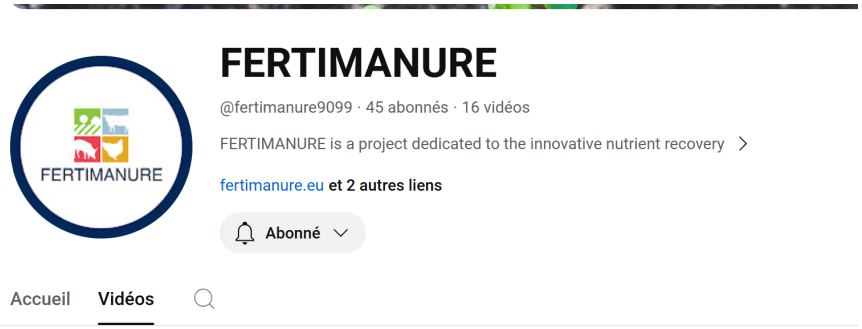
5.2.5 Video

GreenWin had to coordinate the production of impacting short videos showcasing FERTIMANURE general information and showing the different on-farms pilots (Spanish, Dutch, Belgian and German).

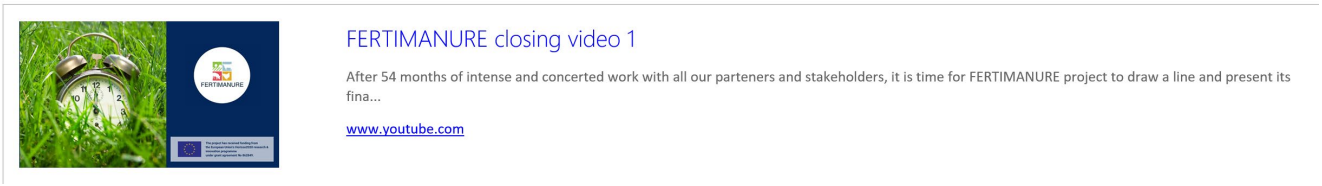
A closing video - Facts and figures - has also been produced to show in figures the impact of the project.

A total of 5 videos have been produced including the general explanatory video of the project, which was translated to the different partners languages (translation included we are in a total of 16 videos).

It is important to mention that all of the FERTIMANURE videos were uploaded to the FERTIMANUREe YouTube channel.



Closing Video



Key Performance indicators expected	*What has been achieved*
1,000 views by the end of the project.	In total based on all videos we had 3729 views on June 27th, 2024

5.2.6 Newsletter

6 FERTIMANURE newsletters have been produced during the duration of the project.

The contents of the Newsletters were based on the structure below:

- Project-related news (e.g. launch and meetings)
- Announcements of the project's progress
- Dates, details, comments regarding project related conferences, meetings, events or publications
- Lectures, talks, and trainings opportunities

The newsletters have been uploaded on the website and in order to make sure that the newsletter gets to the relevant stakeholders, all the partners were deeply involved in sharing the e-newsletter in their social networks

and company's website. Also, it was sent to the contacts in the database that we have compiled through the website; a database of the people that has subscribed to our newsletter (230 people).

Examples:

READ OUR LATEST FERTIMANURE FLASH ENEWSLETTER DEDICATED EXCLUSIVELY TO THE PROJECT'S FINAL EVENT

27/03/2024

Final FERTIMANURE and LEX4BIO Event With the collaboration of all the RUR-08 sister projects – RUSTICA, SEA2LAND and WALNUT

Read more

FERTIMANURE'S 4RD E-NEWSLETTER IS OUT: READ ALL ABOUT IT

09/03/2022

If you want to stay tuned to the project eNews, please susbcribe for free on the right side of the bottom of this page.

Read more

Key Performance indicators expected	*What has been achieved*
400 readers reached by the end of the project.	We reached around 230 readers for each newsletter.

5.2.7 Press release

A first press release briefly describing the project, its objectives and the consortium was produced in M5 and sent out in all countries involved in the project. This press release was thus produced in the different partners language. A second one was produced in Sept. 2023 showing the positive results of BBFs.

All of the project partners were involved – a common list of journalists was created with 49 journalists (see annex).

PRESS RELEASE #2 POSITIVE RESULTS FOR FERTIMANURE MINERAL BIO-BASED FERTILISERS (BBFS) PRODUCED FROM ANIMAL MANURE

11/09/2023

Positive Results For FERTIMANURE Mineral Bio-Based Fertilisers (BBFs) Produced From Animal Manure

11 September 2023

Read more

PRESS RELEASE #1 - EU AWARDS €7.78 MILLION GRANT FOR NEW PROJECT PRODUCING HIGH-ADDED VALUE BIO-BASED FERTILISERS FROM ANIMAL MANURE.

02/06/2020

FERTIMANURE will set up an eco-circular process between crop production and the rearing of livestock.

Read more

Key Performance indicators expected	***What has been achieved***
4 FERTIMANURE press releases expected to be prepared.	3 FERTIMANURE press releases achieved A common list of journalist created. The current trend is to inform journalists via social networks. They are more and more active on LinkedIn and less adept of press releases.

5.2.8 Bio-refine Cluster Community Group

In order to facilitate knowledge and good practice exchanges between relevant EU initiatives, FERTIMANURE had the objective to work with Biorefine Cluster Europe (www.biorefine.eu) in the creation of a community that could cluster different projects working in nutrient recycling.

In 2022, the Biorefine Cluster Europe, coordinated by Ghent University (Belgium), and the H2020 FERTIMANURE project launched the Nutrient Recycling Community, a platform aimed to exchange knowledge and good practices and foster collaboration between initiatives and projects around nutrient recycling in Europe. Nowadays, and after starting its activity, the Nutrient Recycling Community has recently been re-branded into the European Sustainable Nutrient Initiative (ESNI) to acknowledge the interconnection with the annual ESNI Conference, launched by the Biorefine Cluster in 2019 to bring together EU projects, stakeholders and EU officials with the ambition to keep nutrient management high on the EU agenda.

As core part of this initiative, the ESNI community set up 4 Working groups, led by European projects, discussing major challenges with an impact on the nutrient recycling and recovery. At present, the following working groups are active:

- Technologies for nutrient recycling coordinated by FERTIMANURE;
- Agronomic performance of fertilising products coordinated by LEX4BIO;
- Sustainability assessment coordinated by NOVAFERT;
- Policy coordinated first by NUTRI2CYCLE and currently led by RENU2CYCLE.

Key Performance indicators expected	*What has been achieved*
To foster collaboration with relevant initiatives and projects in Europe, a new community group inside the Biorefine Cluster Europe will be established	ESNI Community has been created and consolidated (https://www.biorefine.eu/nutrient-recycling/).

6. Report on the FERTIMANURE's project dissemination activities

6.1 Definition and Main Objective

According to the EC Research and Innovation Participant Portal Glossary Terms we can define the term as follows "The public disclosure of the results by any appropriate means (other than resulting from protecting or exploiting the results), including by scientific publications in any medium."

The main dissemination objective of FERTIMANURE is to ***transfer the knowledge and results*** related to the recovery of mineral nutrients to produce high added value biobased fertilisers and tailor-made fertilisers. Also, to share the results and lessons learnt from the 5 experimental pilots in Spain, France, Germany, Belgium and The Netherlands so that they can be replicated in other regions around the world, taking into and giving importance to the CELAC region.

6.2 Subject of dissemination

The following general subjects of dissemination have been identified:

- FERTIMANURE project itself (general scope, coverage, goals and milestones and plans to reach them)
- Interim results (reached objectives and achievements)
- Techniques and methodologies (respecting IPR issues)
- Technologies (respecting industrial IPR issues)
- Sustainability assessment results
- Innovation aspects (in an "open innovation" perspective)
- End–products (respecting IPR issues)

6.3 Dissemination activities

The dissemination of the FERTIMANURE's results was done through the following activities:

- Scientific publications
- EIP Practice abstracts
- Attendance to main events / conferences and webinars organisation
- Intermediate events
- On-farm experimental pilot visits
- Press releases
- Final Event

6.3.1 Scientific publications and publications in magazines

The industrial and academic partners, individually and in collaboration, published and presented scientific advances in technical papers as well as in scientific journals (peer-reviewed or not) and also in technical magazines. Scientific publications were an effective way to disseminate high-level project information and to attract the interest of representatives of the various target groups. Publications in specialised magazines and papers sent to related events attract the attention of technicians and researchers as well as allow collaboration

within the purposes of the FERTIMANURE. To support this activity, whenever possible, project publications were archived or linked on the FERTIMANURE website.

Key Performance indicators expected	*What has been achieved*
Scientific publications : We target at least 10 publications in the most-relevant high impact international peer reviewed journals. Publications in magazines: 4 articles in industrial and agricultural magazines are foreseen	Scientific publications: FERTIMANURE partners have produced 15 publications that have been submitted in relevant scientific journals. Other publications are being produced, so it is expected that this number will be higher after the end of the project. Publications in magazines: We have reached a total of 18 publications in magazines.

See complete table in Annex II

6.3.2 EIP Practice abstracts

To ensure uptake by farmers, FERTIMANURE has work in the preparation of different EIP practice abstracts in all consortium languages outlining the benefits and practical recommendations for the use the produced BFF and TMF, as well as to promote other relevant outcomes for farmers and practitioners. Initially, it was foreseen that FERITMANURE would produce 12 Practice Abstracts, but finally, we produced a total of 15, which are listed below:

- Practice Abstract 1 - H2020 FERTIMANURE project objectives
- Practice Abstract 2 - Changes to the EU fertiliser regulation will allow for harmonization of criteria for organic materials for fertilising purposes (including BBFs) across the Member States
- Practice Abstract 3 - Innovative on-farm pilots to recover nutrients from manure short summary
- Practice Abstract 4 - Existing nutrient imbalances in European regions
- Practice Abstract 5 - Manure valorisation at the on-farm Belgian pilot plant
- Practice Abstract 6 - Manure valorisation at the on-farm Dutch pilot plant
- Practice Abstract 7 - SWOT analysis of BBFs produced in the project framework
- Practice Abstract 8 - Agronomic performance of BBFs
- Practice Abstract 9 - The results of on-farm TMFs production
- Practice Abstract 10 - The successful business case in the Arjan Prinsen farm (The Netherlands)
- Practice Abstract 11 - FERTIMANURE Business plans and business models for sustainable manure management
- Practice Abstract 12 - FERTIMANURE TMF Nutrition Tool
- Practice Abstract 13 - Sustainability of the FERTIMANURE solutions and Decision Support System Practice Abstract 14 - FERTIMANURE Regulatory Tool
- Practice Abstract 15 - FERTIMANURE BBFs in the context of organic farming

The Practice Abstracts were prepared following the EIP-Agri guidelines and were also translated to all partner languages (English, French, Spanish, Dutch, German, Croatian, Italian, Catalan languages)) to easily reach the farmers from each region. You can find them on the Fertimanure website.

Key Performance indicators expected	*What has been achieved*
Preparation of 12 Practice Abstracts	A total of 15 Practice Abstracts were produced

6.3.3 Attendance to the main events and conferences

The FERTIMANURE promoted the project in different conferences and events targeting relevant domains for the project. The impact of presentations at this kind of events was very high because of the attendance of scientists and industrial experts. National and international conferences were an excellent opportunity to share the results with experts in the field and, therefore, to achieve an effective dissemination of the project. Workshops, meetings and other large events (exhibitions, trade fairs, showcases) represent relevant opportunities for dissemination. The goal of these events was to disseminate both the techniques developed during the project and the preliminary results of the project to the targeted beneficiaries of the FERTIMANURE project.

Annex III presents a table showing all conferences and events attended by the partners throughout the duration of the project. As a summary, we took part in no fewer than 88 events, some as organisers, others as participants and/or speakers. During these events, we were able to talk about the project and ensure its visibility and later results through speeches, posters and roll-ups. -

If we add up all the participants, we can say that we were able to reach around 14.000 people. The events attended included both, virtual and face-to-face participation and both workshops/conferences or events. Additionally, we also organized different webinars targeting specific stakeholders.

In terms of stakeholders reached, we can confirm that the 6 groups identified at the start of the project have been reached. Some events / workshops were more focused on end-users, others on Academia and researchers and / or public authorities / investors and policy makers.

6.3.4 Large-scale events

5 large scale events have been organised in order to engage relevant stakeholders and share knowledge, best practices, lessons learnt and final results of FERTINAMURE. The purpose of large-scale event is the dissemination of the FERTIMANURE project results.

These were organised in different regions represented in the consortium in order to engage at the largest scale possible with the stakeholders of the FERTIMANURE project.

- First large-scale event took place in Den Bosch (NL) in the ManuREsource conference in November 2021.
- Second one took place in Argentina in March 2023.
- Third one was during the Ecomondo EvFEMent in Italy (November 2023)
- Fourth one - Final Fertimanure Event in Brussels – NERM Event (April 2024).
- Fifth one – Final FERTIMANURE event in Spain – PRO-FEM event (May 2024)

These events were an opportunity to involve national and international experts and also related projects. They were also a way of pushing exchange between the project and a wide range of stakeholders across the whole

value chain, and to foster knowledge transfer among them. The aim of those events was to engage at once with many stakeholders, share knowledge and best practices with them, through matchmaking activities, plenary sessions, and specific workshops.

Special attention was given to replication and exploitation potential in CELAC region to evaluate how FERTIMANURE solutions could provide real solutions to this region where Livestock sector has a high relevance.

Key Performance indicators expected	*What has been achieved*
4 large-scale events It is expected that at least 100 relevant stakeholders attend these events.	Number of attendees per event: First - 50 Second - 100 Third - 100 Fourth – 120 Fifth - 200

6.3.5 On-farm experimental pilot visits

We had to have on-farm experimental visits in each of the 5 pilots that FERTIMANURE has already built. These visits were supposed to take place during 2022. Due to the current COVID-19 situation an initiative to create videos of the on-farm experimental pilots was taken. In each video, a short explanation will be given regarding 4 of the 5 on-farm pilots. Spanish pilot, Dutch pilot, Belgian pilot and German pilot.

Example: Belgian pilot plant video

BELGIAN ON-FARM PILOT FOR THE PRODUCTION OF BIO-BASED FERTILISERS – EXPLANATORY VIDEO (DUTCH WITH ENGLISH SUBTITLES)

FERTIMANURE **5 on-farm experimental pilots**, for processing animal manure into bio-based and tailor-made fertilisers, are already operational.

This **video** provides information about the manure processing installations, the conversion processes, the plant location, the products obtained, the sub-products, etc of the **Belgian pilot plant.**

Pilot plant location: Bio Sterco farm in the city of Hooglede, Belgium.

This explanatory video was **produced** by **Ghent University.**

Explanatory video in Dutch with English subtitles.

The definition of a **Bio-Based Fertiliser** (BBF) and **Tailor-Made Fertiliser** (TMF) can be found **here**

20230428 12:00 AM

6.3.6 Final conference

The 4th large-scale event took place in Brussels – Belgium on April 16-17, 2024. This event was performed in the framework of the NERM2024 (Nutrient in Europe Research Meeting), an event mainly organised by the European Sustainable Phosphorous Platform (ESPP) and also with the co-organisation with the other 4 sister projects funded under the topic RUR-08 of the H2020 Programme: LEX4BIO, SEA2LAND, RUSTICA and WALNUT

(https://www.phosphorusplatform.eu/activities/conference/nerm). NERM counted with the participation of 120 people and also some additional on-line.

The aim of this FERTIMANURE final event in Brussels was to discuss the main results of R&D projects that have been financed within the remit of the recycling of nutrients and have either been completed or are about to reach completion, by highlighting the significant impacts they have made and the obstacles they have encountered, and to define the way forward henceforth.

As a result of the collaboration of the 5 RUR08 sister projects in the NERM event, 2 joint position papers were produced.

Additionally, there was also a final conference in Spain to show all the lessons learnt, the main conclusions and results of FERTIMANURE. Agricultural players, public authorities, policy makers, universities and industrial stakeholders were invited to this final event, which counted with the participation of 200 people.

7. Communication and Dissemination obligations

7.1 European Union funding phrase and European Union flag

All the communication and dissemination material showcase the phrased that the project has received funding from the European Union as well as to include the European Union flat as shown below:

> *This project has received funding from the EU Horizon 2020 Research and Innovation Programme under grant agreement No. 862849*

7.2 Disclaimer European Union funding phrase and European Union flag

Any communication and dissemination activity has to clearly show that the information provided on them reflects only the authors view and shall not be taken in any case as the European Commission's point of view or opinion:

> ***Disclaimer:*** *this document/poster/leaflet/publication/etc a. Reflects only the author's view; and b.*
>
> *Exempts the Commission from any use that may be made of the information it contains*

7.3 Partner obligation and protection of data

Matters regarding protection of data and other information-related obligations of partners is covered in the Data Management Plan.

8. Decision and publication process and management of the External Communication and Dissemination material to be produced

The management organization comprised of the following bodies:

- Project Coordinator (PC),
- Work Package Teams (WPT), and
- Communication and Dissemination WP leader (C&DWPL)

8.1 Communication and Dissemination WP leader

GreenWin as work package 7 -Communication and Dissemination – leader represented this level and had to be in charge of producing all the communication and dissemination material focused on the EXTERNAL audience. GreenWin had to be in charge of asking all the partners for relevant information for communication and/or dissemination and with this information created the different templates for posters and roll-ups, leaflet, websites, newsletters, etc.

8.2 Project Coordinator

UVIC, as project coordinator of FERTIMANURE, had to be in charge of approving the material created by GreenWin and provided feedback when needed. GreenWin had to provide the necessary measures to make the changes according to what the coordinator asks.

8.3 Work Package Teams

All work package leaders were the ones representing this level and were the last ones to review the material created to make sure that they are the ones that receive a final version according to GreenWin and UVIC. These partners, which have technical expertise, had to make sure that all the necessary information was included and that all the technical terms are understood, taking into account that nothing extremely important was left behind. GreenWin had to provide them with input regarding the intended audience of the material to be produced in order to avoid a language that is too technical for a non-scientific audience and a language that is non-technical for a scientific audience.

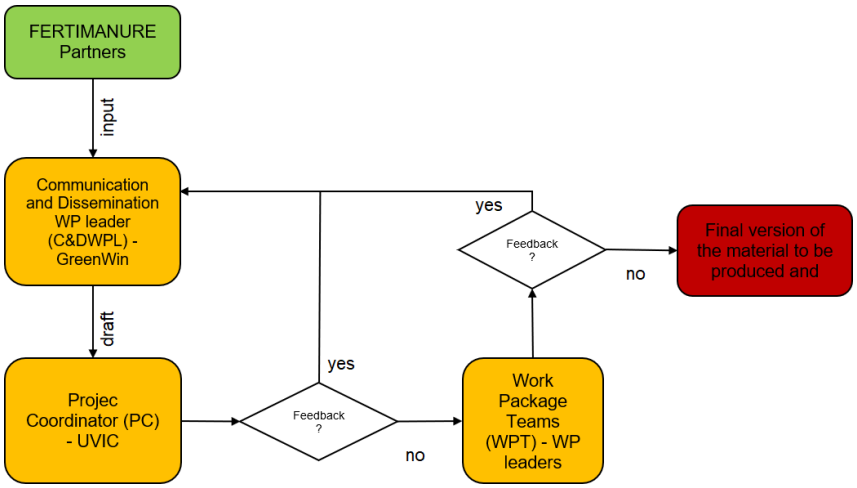


Figure 1. Decision and publication process and management for WP7

9. Discussion

Communication about the project and dissemination of its results was a very important task, that allows the different stakeholders around the EU and the CELAC region to know more about the FERTIMANURE project. In order to do that it was good to have a plan that identifies the most important activities to be performed during the project's lifetime, and the target audiences (stakeholder groups), to which the specific activities should be of high interest.

Regarding the communication activities it is important to mention that the branding of the FERTIMANURE project was extremely important, because it gave a clear and consolidated identity to the project. It made the project recognizable, due to the colours, its logo, etc and this is one of the impacts that we wanted to create. All the project partners were encouraged to use these in all of the communication and dissemination activities. The project website and LinkedIn were the main communication channels, where all of the information were posted, and they were updated regularly with news.

The leaflet, the posters, and the roll-up were a very good way to communicate about the project, since during the events they could be shared among the audience. As we attended more than 88 events, they were often used. For the explanatory video, it is important to mention that it was a perfect way to explain the project during regional events as it was translated to all of the consortium languages. With the COVID-19 pandemic starting at the very beginning of the project, the videos were very useful to efficiently show what we were doing in FERTIMANUE. The press releases were a way to reach specific and targeted stakeholders via the specialised journalists, so that they could get the latest information and results regarding the project.

The EIP-practice abstracts are an excellent way to ensure the uptake of results by farmers, and this is why they were written in a very clear and understandable way. These were produced until the end of the project, and they maximised the impact of the project results.

FERTIMANURE also organized 5 different events during the project lifetime, which is a relevant number considering the duration of the project. These specific events of the project allowed us to directly reach almost 600 people from different EU countries, including also Argentina, where we have a relevant participation of stakeholders from the CELAC region. The final event in Brussels was specially successful, as we co-organise it with the European Sustainable Phosphorous Platform and we brought together the other sister projects funded in the H2020 RUR-08 topic to collaborate also in the NERM event.

Finally, another relevant outcome of all the work developed in the project Dissemination and Communication activities is the creation and consolidation of the European Sustainable Nutrient Initiative (ESNI), a community of projects created by FERTIMANURE and the Biorefine Cluster Europe in 2022, which aims to cluster projects working in nutrient recycling. The ESNI community counts now with the active participation of more than 20 projects and is organizing different webinars and activities during the whole year, including the ESNI conference, which takes place every September in Brussels

10. Conclusions

A series of communication actions undertook in order to raise awareness and to ensure continuous involvement of different stakeholder groups, aiming to actively involve farmers, fertilisers industry, technology providers, policy makers, citizens and other relevant stakeholders covering the whole value chain. Different communication channels and activities were used for the dissemination of project results in a user-friendly manner. Having a clear, strong and visible communication was also a way to ensure engagement.

In conclusion, we have successfully executed the communication activities as outlined in the Grant Agreement for this European project. We are pleased to report that all Key Performance Indicators (KPIs) have been met and, in many instances, exceeded our expectations.

Specifically, we achieved the following indicators:

- ✓ Website Traffic: Our project website attracted a substantial number of unique visitors/ We have double our target.
- ✓ Social Media Engagement: We saw a 300% increase in followers across our social media platforms, with engagement rates consistently above averages.
- ✓ Media Coverage (publication in magazines): We secured extensive media coverage, including over 18 articles in reputable outlets and several high-profile interviews.
- ✓ Event Attendance: Our events were well-attended, with participant numbers exceeding forecasts. We reached 14.000 stakholders.
- ✓ EIP practice abstracts: it was foreseen that FERITMANURE would produce 12 Practice Abstracts, but finally, we produced a total of 15,
- ✓ Publications and Dissemination Materials: We produced and distributed over 1000 copies of project-related leaflets and materials, effectively reaching our target audience.

These achievements highlight the effectiveness of our communication strategy and the dedication of our team. The success of these activities not only increased the visibility of our project but also ensured the dissemination of our results to a broad and engaged audience.

In conclusion, our communication activities have played a pivotal role in the project's success. By meeting all the KPIs, we have demonstrated our commitment to excellence and our capability to deliver impactful results. We are proud of the work we have accomplished and confident that the project's outcomes will have a lasting impact.

Annexes

ANNEX I: Scientific publications

	Proposed by	Scientific journal	Article title	Author of the publication	Link	Publication date
1	UGENT	Ecological Engineering	Evaluation of a new approach for swine wastewater valorisation and treatment: A combined system of ammonium recovery and aerated constructed wetland	Claudio Brienza, Natalia Donodo, Hongzhen Luo, Ruben Vingerhoets, Denis de Wilde, Dion van Oirschot, Ivona Sigurnjak, Jayanta Kuma, Evi Michels, Erik Meers	https://www.sciencedirect.com/science/article/abs/pii/S0925857423000289?dgcid=coauthor	April 2023
2	UGENT	Journal of Cleaner Production	Detailed nitrogen and phosphorus flow analysis, nutrient use efficiency and circularity in the agri- food system of a livestock-intensive Region	Ruben Vingerhoets, Marc Spiller, Joris De Backer, Anne Adriaens, Siegfried E. Vlaeminck, Erik Meers	https://www.sciencedirect.com/science/article/pii/S0959652623014361?via%3Dihub	April 2023

3	UGENT	Biocatalysis and Agricultural Biotechnology	Ammonia water as a biobased fertiliser: evaluating agronomic and environmental performance for Lactuca sativa compared to synthetic fertilisers	Vaibhav Shrivastava, Ivona Sigurnjak, Nimisha Edayilam, Erik Meers	https://doi.org/10.1016/j.bcab.2023.102907	November 2023
4	UVIC	The International Journal of Life Cycle Assessment	Life cycle assessment of bio-based fertilizers production systems: where are we and where should we be heading?	D. Egas, S. Azarkamand, C. Casals, S. Ponsá, L. Llenas &J. Colón	https://link.springer.com/article/10.1007/s11367-023-02168-8	May 2023
5	LEITAT	Science of the Total Environment	Nutrient recovery and valorisation from pig slurry liquid fraction with membrane technologies	Rubén Rodríguez, Julia Zapata, Xialei You, Montserrat Pérez, Sonia Sanchis, Julia García	https://www.sciencedirect.com/science/article/pii/S0048969723011646?via%3Dihub	May 2023

6	UGENT	Chemical Engineering Journal	A calibrated model approach to cost-efficient nitrogen recovery in manure processing using a two-stage ammonia stripping and nitrification- denitrification system	Ruben Vingerhoets, Claudio Brienza, Ivona Sigurnjak, Jeroen Buysse, Siegfried E. Vlaeminckc, Marc Spiller, Erik Meers	https://www.sciencedirect.com/science/article/pii/S1385894723057157#f0025	December 2023
7	UMIL	Scientific Reports	Effects of the application of microbiologically activated bio-based fertilizers derived from manures on tomato plants and their rhizospheric communities	Elisa Clagnan, Mirko Cucina, Patrizia De Nisi , Marta Dell'Orto, Giuliana D'Imporzano, Roberto Kron-Morelli, Laia Llenas-Argelaguet Fabrizio Adani	https://www.nature.com/articles/s41598-023-50166-5#:~:text=Benefits%20of%20microbially%20activated%20bio,fertilized%20and%20chemically%20fertilized%20plants	December 2023
8	FHR	Verband Deutscher Landwirtschaftlicher Untersuchungs- und	Prüfung der Eignung von Biokohle aus Rindermist als Düngemittel zu Mais im Topfversuch	S. Schönfeld, C. Hartung, E. Westenthanner, T. Reiter, H. Heuwinkel	https://www.vdlufa.de/wp-content/uploads/2024/01/134.VDLUFA-Kongress_2023_Freising.pdf	December 2023

		Forschungsanstalten (VDLUFA Kongress)				
9	UGENT	Resources conservation & recycling	Navigating the Economic Impact of Novel Nutrient Recovery Technologies in Livestock-Intensive Regions (logistic modelling)	Ruben Vingerhoets, Ivona Sigurnjak, Jeroen Buysse, Oscar Schouman, Erik Meers	NA	January 2024
10	UGENT	Journal of Environmental Management	Enhancing swine manure treatment: A full-scale techno-economic assessment of nitrogen recovery, pure oxygen aeration and effluent polishing	Ruben Vingerhoets, Ivona Sigurnjak, Marc Spiller, Siegfied E. Vlaeminck, Erik Meers	https://www.sciencedirect.com/science/article/pii/S0301479724006327?dgcid=author	March 2024
11	UGENT/UVIC	Scientia Horticulturae	Evaluation of agronomic efficiency and stress resistance on Swiss chard via use of biostimulants	Vaibhav Shrivastava, Nimisha Edayilam, Berta Singla Just, Omar Castaño-Sanchez, Laura Díaz-Guerra, Erik Meers	https://doi.org/10.1016/j.scienta.2024.113053	April 2024

12	UGENT	Science of the Total Environm ent	Use of Ammonium Nitrate and Ammonium Sulphate in circular agriculture: A compilation of results from 4 year field trials	Vaibhav Shrivastava, Tomas Van De Sande, Ivona Sigurnjak, Erik Meers	N.A.	May 2024
13	UVIC	Agronomy	Phosphorus release dynamics from ashes during a soil incubation study: effect of feedstock characteristics and combustion conditions	Berta Singla, Pablo Binder, Nagore Guerra, Laura Díaz, Rosa Vilaplana, Nicola Frison, Erik Meers, Laia Llenas and Ana Robles	https://doi.org/10.3390/agronomy14050935	April 2024
14	UVIC	International Journal of Agricultural Sustainability	Biofertilization increases soil organic carbon concentrations: results of a meta-analysis	Berta Singla, Evan Marks, Laura Roquer Sergio Ponsá, Laia Llenas and Rosa Vilaplana	Under revision	June 2024

15	WUR	Applied studies	Environmental effects of using ammonium sulfate from animal manure scrubbing technology as fertilizer	René Rietra 1*, Kimo van Dijk1 , and Oscar Schoumans1	https://doi.org/10.3390/app14124998	June 2024

ANNEX II : Publication in magazines

	Proposed by	Magazine name	Title/topic	Date of publication	Link to the publication
1	APCA	Réussir Terra	FERTIMANURE, a project to optimize manure management	03/07/2020	https://www.calameo.com/books/00611278533152acf4e68
2	APCA	Paysan Lorrain	Pour des sols efficaces, dotés d'une fertilité biologique durable	04/09/2020	https://www.le-paysan-lorrain.fr/
3	UVIC	Open access government	FERTIMANURE From farm to market- upcycling manure to improved fertilising products pg 242	09/10/2020	https://edition.pagesuite-professional.co.uk/html5/reader/production/default.aspx?pubname=&edid=f10cf98f-85a8-453f-a44f-a855861878cc

4	UVIC	RETEMA	Estrategias innovadoras de valorización de deyecciones ganaderas para producir nuevos fertilizantes en la UE PG - page 118	17/09/2021	https://www.retema.es/revista-digital/especial-bioenergia-7
5	APCA / RITTMO	Le Paysan Vosgien	First results of the FERTIMANURE project	01/10/2021	https://grandest.chambre-agriculture.fr/publications/toutes-les-publications/la-publication-en-detail/actualites/premiers-retour-du-projet-europeen-fertimanure/
6	INTA	Solo Aves y Porcinos	Nuevas Tecnologías para tratar y dar valor agregado a los residuos ganaderos. Crespo, D.C; Beily, M.E y Bres, P.A. Año XV, N°9 - page 10	01/10/2021	https://www.calameo.com/read/005800297e67b1549b839
7	DARP / UVIC	Agrodiario.com	Notícia:Cataluña pone en marcha una planta piloto que valoriza deyecciones ganaderas	24/01/2022	https://www.agrodiario.com/texto-diario/mostrar/3414485/cataluna-pone-marcha-planta-piloto-valoriza-deyecciones-ganaderas
8	INTA	Producir XXI	Agregando más valor a los residuos del tambo - page 26	20/04/2022	https://producirxxi.com.ar/revista-abril-no-366/

9	APCA	Le Mag des agriculteurs de Bretagne (#02)	Test d'un pyrolyseur mobile à Kerguéhennec - Recycler du fumier de volaille en biochar -page 24	01/06/2022	https://www.calameo.com/read/00262679310c015e6411c
10	LEITAT	Eueropean Sustainable Phosphorus Platform - Book of abstracts	Recovery of Nitrogen and Phosphorus from Livestock Slurry through membrane technologies - page 113	20/06/2022	https://www.phosphorusplatform.eu/images/Conference/ESPC4/ESPC4%20PERM5%20-%20Book%20Of%20Abstracts%20-%20Final.pdf
11	INTA - UVic	Producir XXI	Productos biofertilizantes a partir de deyecciones ganaderas. Pages 32 - 35	01/02/2023	https://producirxxi.com.ar/revista-febrero-n376/ .
12	WENR	Policy brief	Evaluation of the nitrates Directive, A scientific response	08/03/2024	https://www.wur.nl/nl/show/policyletter-nitrates-directive.htm
13	INTA	INTA Informa	La Argentina, con alto potencial para producir fertilizantes biológicos	15/03/2024	https://www.argentina.gob.ar/noticias/la-argentina-con-alto-potencial-para-producir-fertilizantes-biologicos

14	INTA	Revista Chacra	Impulsan la reutilización eficiente del estiércol	15/03/2023	https://www.revistachacra.com.ar/nota/50370-impulsan-la-reutilizacion-eficiente-del-estiercol/
15	FHR	TopAgrar	Pflanzenkohle aus Reststoffen: Hohe Qualität in der Forschung nachgewiesen / Biochar from residues: High quality proven in research	16/01/2024	https://www.topagrar.com/perspektiven/nachhaltigkeit/pflanzenkohle-aus-reststoffen-hohe-qualitaet-in-der-forschung-nachgewiesen-13567474.html
16	WENR	NRC handelsblad	Is er een uitweg voor de mestcrisis?	24/04/2024	Is er een uitweg voor de mestcrisis?
17	WENR	Klimaat-HelpDesk	FAQs climate helpdesk about manure versus synthetic N (general public)	10/01/2022	Waarom gebruiken we nog kunstmest, terwijl we in Nederland een mestoverschot hebben? | KlimaatHelpdesk
18	APCA	Le Mag des agriculteurs de Bretagne (#21)	Fumier et lisier : des procédés pour récupérer leurs éléments fertilisants – page 20&21	01/05/2024	https://bretagne.chambres-agriculture.fr/fileadmin/user_upload/National/FAL_commun/publications/Bretagne/PDF/LeMag/MAG_21_BD.pdf

ANNEX III: Events / Conferences / Fairs

	Name	Number of participants	Date	Audience	Partner involved	Place	Type of activity
1	FERTIMANURE project presentation	25	9-01-2020	INTA scientific researchers	INTA	Face to face	Organization of a workshop by INTA
2	ELO Innovation Conference Climate Positive Farming	20	29-01-2020	Policy makers and researchers	ELO	Online	Participation to a conference
3	Working Group Meeting for Rural Youth Europe	100	29-01-2020	CEJA, DG AGRI, Rural Youth Europe, EUROPARC	ELO	Face to face	Participation to a workshop
4	Wildlife Estates Dinner	150	10-02-2020	Wildlife Estates and ELO Members	ELO	Face to face	Participation to an event
5	FERTIMANURE project presentation	67	10-02-2020	INTA members and Agricultural producers	INTA	Online	Organization of a conference by INTA
6	ELO General Assembly	50	15-06-2020	ELO members	ELO	Online	Participation to an event
7	Friends of the Countryside General Assembly	82	24-06-2020	FCS members	ELO	Online	Participation to an event
8	Presentación PIUNAHUR-Cooperación Universidad de Hurlingham (UNAHUR)	100	19-11-2020	Environmental and Agricultural career professionals and students	INTA	Online	Participation to a workshop

9	2nd edition of ESNI 2020 Conference	128	26-11-2020	Researchers and scientist, EU projects and policy makers	UVic-UCC	Online	Participation to a conference
10	HEPH-Condorcet course programme	14	27-11-2020	Students (Agronomy and International Development)	GWIN	Online	Participation to an event
11	ELO General Assembly	50	2-12-2020	ELO members	ELO	Online	Participation to an event
12	EPC Meeting	40	27-01-2021	ELO Policy and members	ELO	Online	Participation to an event
13	FFA Brussels – Month of March	3000	22-03-2021	Agricultural producers, Fertiliser producers, Academia and research, Business and financial advisors and Public entities	ELO	Online	Participation to a conference
14	Congrés BIT2000	80	24-03-2021	Academia and research	CPV	Face to face	Participation to a conference
15	BIO-raffiniert XI	40	24/25-03-2021	Researchers and scientist, Fertiliser producers	FHR	Online	Participation to an event
16	Manuresource conference	100	11/12-05-2021	Agricultural producers, Fertiliser producers, Academia and research, Business and financial advisors and Public entities	IPS	In person	Presentation at the conference

17	PERM4 – 4th Phosphorous in Europe Research Meeting	150	2-06-2021	Different stakeholders that are part of the ESPP. Mainly Academia and research, and Companies	UVic-UCC	Online	Participation to a conference
18	Technical talks on circular economy applied to pig farming	15	20/21-06-2021	Pig farmers and cattle farming professionals	INTA	Face to face	Organization of a workshop by INTA
19	Jornadas PATT	100	30-06-2021	Policy makers, farmers and industry represnetatives	UVic-UCC	Online	
20	EU & Research projects: CIRCULAR ECONOMY & ENVIRONMENT	70	02-07-2021	Fertiliser processing industry, Adacemia and research, Policy makers and authorities	UVic-UCC	Virtual	Participation to a workshop
21	Compostaje de Residuos Orgánicos Municipales .Recursos Naturales y Ambiente	57	25-08-2021	Agricultural producers, Fertilisers processing industry, Academia and research	INTA	Virtual	Participation to a workshop
22	II Noche Iberoamericana de los Investigadores (IIN). Noche Europea de los Investigadores.	1000	24-09-2021	Agricultural producers, Fertilisers processing industry, Academia and research	INTA	Hybrid: virtual and face to face	Participation to an event
23	H2020 - FERTIMANURE - de la ferme au marché : valoriser le fumier en produits fertilisants améliorés	15	19-10-2021	Agricultural producers, Fertiliser producers	GWIN / Uvic -UCC	Virtual	Organisation of a conference
24	INNAGRO 2021 – ENCUENTRO DE INNOVACIÓN AGROALIMENTARIA	200	19-10-2021	Academia and Research, Public Entities	UVic-UCC	Virtual	Participation to a conference

25	III SIMPOSIO DE RESIDUOS AGROPECUARIOS Y AGROINDUSTRIALES DE NOA Y CUYO	200	28-10-2021	Academia and Research, Public Entities	UVic-UCC	Virtual	Participation to a conference
26	Fertilizers Europe workshop	36	29-10-2021	Fertiliser producers (16 of its members)	Fertilizers Europe	Virtual	Organisation of a workshop
27	Mid-Term review of the French Circular Economy Program	50	10-11-2021	Fertilisers processing industry, Policy makers and authorities	APCA	Virtual	Participation in activities organised jointly with other H2020 projects
28	European Biosolids & Bioresources Conference	200	16-11-2021	Academia and research	FHR	Virtual	Participation to a conference
29	COMIFER-GEMAS	260	24-11-2021	Fertilisers processing industry, Policy makers and authorities, Academia and Research	APCA	Face to face	Participation to an event
30	Contrast session with actors in the agri-food sector (Sessió de contrast amb actors del sector agroalimentari)	20	01-12-2021	Agricultural producers, Fertiliser producers, Business and financial advisors, Public entities, Policy makers and authorities	UVic-UCC	Face to face	Organisation of a conference
31	Brainstorm session 1	21	02-12-2021	Agricultural producers, Fertilising processing industry, Public entities and general public	IPS	Virtual	Orgainsation of a webinar
32	Cross-H2020-seminar Lex4bio & FERTIMANURE	50	09-12-2021	Academia and Research	UVic-UCC / WENR /	Virtual	Participation in activities organised jointly with other H2020 projects

33	Inauguration of the Spanish pilot plant by the Catalan Minister	25	21-01-2022	Agircultural producers, Policy makers and authorities	UVic-UCC	Face to face	Organisation of a conference
34	Valorizzazione microbiologica delle biomasse da allevamenti animali in ambito agricolo all'interno del progetto FERTIMANURE	35	01-02-2022	Fertiliser producers and Academia and research	UMIL / Agrifutur	Virtual	Organisation of a workshop
35	CICLO DI SEMINARI DI AGGIORNAMENTO SULLA CONCIMAZIONE ORGANICA	30	16-02-2022	Academia and research	UMIL	Hybrid: face-to-face and virtual	Participation to a conference
36	Development of bio-based fertilisers for a circular bioeconomy	50	16-02-2022	Academia and research	UVic-UCC	Virtual	Participation to a conference
37	Forum for the Future of Agriculture Belgium	400	15-03-2022	Policy makers and authorities	ELO	Virtual and Face to face	Participation to a conference
38	Water2REturn Final Conference: nutrients recovery in the meat industry	55	21-03-2022	Academia and research	UVic-UCC	Virtual	Participation to a conference
39	Bio360 Expo	200	30-03-2022	Agricultural producers, Fertiliser processing industry, Academia and research	RITTMO	Face to face	Participation to an event
40	Introductory meeting of the Working Group on technologies for nutrient recovery of NRC (Nutrient Recycling Community)	20	29-04-2022	Academia and research	UMIL	Virtual	Participation in activities organised jointly with other H2020 projects
41	1st Large-scale event - MANURESOURCE conference	50	12-05-2022	Agricultural producers, Fertilisers processing industry, Academia and	ALL	Face to face	Organisation of an event

				research, Policy makers and authorities, Public entities and general public			
42	PRO-FEM	200	18-05-2022	Agricultural producers, Fertiliser producers, Business and financial advisors, Public entities, and Policy makers and authorities, Academia and research	DACC	Face to face	Participation to an event
43	57th Croatian and 17th International Symposium on Agriculture	600	21-06-2022	Academia and research	IPS	Face to face	Participation to a conference
44	4th European Sustainable Phosphorus Conference 2022	100	22-06-2022	Academia and research, Fertiliser producers, Business and financial advisors, Policy makers and authorities	LEITAT	Face to face	Participation to a conference
45	Field - Demo Day	15	30-06-2022	Agricultural producers	DACC and UVIC-UCC	Face to face	Other - Demo day
46	Brainstorm session 2	9	8-07-2022	Agricultural producers, Fertilisers processing industry, Business and financial advisors, Public entities and general public	IPS	Virtual	Organisation of a webinar
47	FERTIMANURE: Upcycling animal manure into improved fertilising products in the Global Symposium Conference (organised by FAO)	80	27-07-2022	Academia and research	UVic-UCC	Virtual	Participation to a conference

48	National Project Meeting (INTA) PDI518: Advances and achievements of pollution and added-value s	60	11-08-2022	Academia and research	INTA	Face to face	Organisation of a conference
49	2 do BRAINSTORM SESSION. jornada de “Tecnologías de tratamiento para recuperación de nutrientes a partir de efluentes y agropecuarios y la producción de bioinsumos para uso agronómico	92	06-09-2022	Agricultural producers, Fertiliser producers, Business and financial advisors, Public entities, and Policy makers & authorities, Academia and research	INTA	Virtual	Participation to a conference
50	Seminario “Tecnologías de tratamiento para recuperación de nutrientes a partir de efluentes agropecuarios y la producción de bioinsumos para uso agronómico”.	87	06-09-2022	Academia and research	UVic-UCC	Virtual	Participation to a conference
51	Field day	15	15-09-2022	Agricultural producers	DACC	Face to face	Other - Demo day
52	EU Circular talks	50	05-10-2022	Academia and research	UVic-UCC	Virtual	Participation to a conference
53	ECOMONDO	50	09-11-2022	Academia and research	UVic-UCC / IPS	Face to face	Participation to a conference
54	RENOWAGRO	700	14-11-2022	Academia and research	UVic-UCC / FERT	Face to face	Participation to a conference

55	XIV Encuentro de la RedBioLAC (Red de Biodigestores para America Latina y El Caribe)	60	22-11-2022	Fertiliser producers, Academia and research, Policy makers and authorities	UMIL	Face to face	Participation to a conference
56	The Signpost Series	248	25-11-2022	Agricultural producers, Fertiliser processing industry, Academia and research, Policy makers and authorities	WENR / RITTMO	Virtual	Participation to a conference
57	Project promotion with pig and dairy producers in the Santa Fe region.	10	29-11-2022	Agricultural producers	INTA	Face to face	Organisation of a conference
58	Forum for the Future of Agriculture	300	02-12-2022	Policy makers and authorities	ELO	Virtual and Face to face	Participation to a conference
59	3rd International Conference Strategies toward Green Deal Implementation Water, Raw Materials & Energy	40	05-12-2022	Academia and Research, Public Entities	UGENT	Virtual	Participation to a conference
60	Cross – H2020 – seminar LEX4BIO & FERTIMANURE Bio-based fertilizers of the Future	50	07-12-2022	Academia and research	UVic-UCC	Virtual	Participation in activities organised jointly with other H2020 projects
61	Presentation of the results of the FERTIMANURE project	9	12-12-2022	Agricultural producers	FERT	Face to face	Organisation of a conference
62	Forum for the Future of Agriculture	800	03-04-2024	Policy makers and authorities	ELO	Virtual and Face to face	Participation to a conference

63	58th Croatian and 18th International Symposium on Agriculture	500	15-02-2023	Academia and research	IPS	Face to face	Participation to a conference
64	2doLarge-scale event – Argentina- conference	100	13-03-2023	Agricultural producers, Fertilisers processing industry, Academia and research, Policy makers and authorities, public entities and general public	All	Face to face and virtual	Organization by INTA
65	Brainstorming with farmes and agricultural producers in ADECOARGRO (Santa Fe – Argentina) RECUPERACIÓN INNOVADORA DE NUTRIENTES A PARTIR DE FUENTES SECUNDARIAS - PRODUCCIÓN DE FERTILIZANTES DE ALTO VALOR AÑADIDO A PARTIR DE ESTIÉRCOL ANIMAL	60	09-03-2023	Agricultural producers, Farmers	ALL	Face to Face	Organization by INTA
66	Brainstorming with medium farmers and agricultural producers in INTA Arrecifes. RECUPERACIÓN DE NUTRIENTES A PARTIR DE ESTIÉRCOLES ANIMALES Y ENSAYOS DE USO AGRONÓMICO	50	10-03-2023	Agricultural producers, Farmers, Academia and research	All	Face to Face	Organization by INTA
67	IV SIMPOSIO DE RESIDUOS AGROPECUARIOS Y AGROINDUSTRIALES	200	03-11-2023	Academia and Research, Public Entities	UVic - INTA	Virtual and Face to Face	Participation to a conference

68	Webinar: FERTIMANURE Sustainable biofertilizers and their adoption in the CELAC Region	90	06-07-2023	Agricultural producers, Fertilisers processing industry, Academia and research, Policy makers and authorities, public entities and general public	UVic- Leitat – INTA - IPS	Virtual	Webinar Organization by INTA, Leitat Chile, IPS and UVic
69	Webinar: New results of the FERTIMANURE project and its transfer to CELAC	100	06-07-2023	Agricultural producers, Fertilisers processing industry, Academia and research, Policy makers and authorities, public entities and general public	UVic- Leitat – INTA – IPS- Fertinagro	Virtual	Webinar Organization by INTA, Leitat Chile, IPS and UVic
70	VDLUFA-Kongress	300	05.– 08-09-2023	Agricultural producers, Fertilisers processing industry, Academia and research, Policy makers and authorities, public entities and general public	FHR	In Person	Poster Presentation
71	ESNI conference	60	20-09-2023	Agricultural producers, Fertilisers processing industry, Academia and research, Policy makers and authorities, public entities and general public	IPS	In Person	Presentation at conference
72	Webinar: Exploring market opportunities for technologies and products developed within the Fertimanure project	29	28-11-2023	Agricultural producers, Fertilisers processing industry, Academia and research, Policy makers and authorities, public entities and general public	Fertilizer Europe - IPS	Online	Webinar organization by Fertilizer Europe and IPS
73	Ecomondo	100	07-11-2023	Agricultural producers, Fertilisers processing industry, Academia and research, Policy makers	FHR	In person	Presentation in session at Ecomondo

				and authorities, public entities and general public			
74	Online Workshop - Best Practices to apply to European Research and Innovation Funds to foster Cooperation between Bavaria and South America on Green Topics. H2020 FERTIMANURE Fertimanure fertilising products: Biorefineries for recovering nutrients from animal manure	50	16-01-2024	Academia and research	INTA	Online	Participate in a Workshop
75	SOFIE conference		17-01-2024	Agricultural producers, Fertilisers processing industry, Academia and research, Policy makers and authorities, public entities and general public	IPS/UGENT/APF	In person	Presentation at conference
76	Progress in Manure & Digestate	50	23 – 25-01-2024	Agricultural & Academia research, Industry, Agricultural producers	FHR	Online	Presentation at Conference
77	Organisation of 2 round tables – Manuresource conference	19	21-03-2024	Agricultural & Academia research, Industry, Agricultural producers	Fertilizer Europe - IPS	In person	Organisation of a workshop
78	Manuresource conference	100	21-03-2024	Agricultural producers, Fertilisers processing industry, Academia and research, Policy makers and authorities, public entities and general public	IPS	In person	Presentation at conference

79	NERM – final event	120	16/17-04-2024	Agricultural producers, Fertilisers processing industry, Academia and research, Policy makers and authorities, public entities and general public	All	In person	Organisation/ presentation at conference
80	Assises Nationales du Biochar	150	29-03-2023	Fertilisers processing industry, Academia and research, Policy makers and authorities, public entities	APCA - RITTMO	Face to face	Presentation at conference
81	COMIFER-GEMAS	420	21/22-11-2023	Fertilisers processing industry, Policy makers and authorities, Academia and research.	APCA - RITTMO	Face to face and online	Presentation at conference
82	JOURNEES DE LA RECHERCHE PORCINE	400	06/07-02-2024	Policy makers and authorities, Academia and research.	APCA - RITTMO	Face to face and online	Presentation at conference
83	JOURNEES DE LA RECHERCHE AVICOLE ET PALMIPEDES A FOIE GRAS	300	20/21-03-2024	Policy makers and authorities, Academia and research.	APCA - RITTMO	Face to face	Presentation at conference
84	Webinar “Je m’approprie les projets européens - Episode 1 : L’Europe, un terreau fertile pour les nouvelles matières fertilisantes ?”	30	23-05-2024	French Chambers of Agriculture members	APCA	Virtual	Presentation at webinar
85	5th IWA Resource Recovery Conference	200	1 – 3-11-2023	Academia and Research, Public Entities	UGENT	Face to Face	Presentation at conference

86	17th International European Forum on System Dynamics and Innovation in Food Networks (Igls-Forum)	50	13 – 17-02-2024	Academia and Research, Public Entities	UGENT	Face to face	Presentation at conference
87	ELLS Bioeconomy Summer School, Uppsala, Sweden	30	31-07 – 13-08-2023	Academia and Research, Public Entities	UGENT	Face to face	Poster and presentation in summer school
88	Nutri2Cycle Summer School, Barcelona, Spain	40	07 – 09-06-2023	Academia and Research, Public Entities	UGENT	Face to face	Poster at summer school

ANNEX IV : List of Journalists

No	First Name (surname)	Last name	Media name	Type of media	Freelancer or employee of the media	e-mail address	Country prefix	Phone number	Territories covered	Communication language(s)
1	-		Informatore Agrario www.informatoreagrario.it	Agriculture Specialised - Online and Offline	-	informatoreagrario@informatoreagrario.it	39	458057547	Italy	Italian
2	-		Agronotizie https://agronotizie.imagelinenetwork.com/	Agriculture Specialised - Online (free)	-	info@imagineline.it	39	546680688	Italy	Italian
3	Repetti	Ottavio	Tecniche nuove - Terra è vita	Agriculture Specialised Online and Offline	-	ottavio.repetti@gamail.com	39	3383633793	Italy	Italian
4	Garcia	Chus	Heraldo de Aragón	Mainstream/Offline/Online Newspaper	Employee	mjgarcia@heraldo.es	34	976765000	Regional	Spanish
5	Poncela	Isabel	Efe	Mainstream Offline Agency	Agency Director	iponcela@efe.com	34	976215021	National	Spanish
6	Lacarcel	Silvia	Cadena Ser	Mainstream Offline/ Online Radio	Radio Director	smlacarlel@prisaradio.com	34	647308862	Regional	Spanish
7	Barraguer	Samuel	CARTV	Mainstream Offline/Online TV	News Chief	samuel.barraguer@gmail.com	34	876256500	Regional	-
8	Lopez Judeiras	Chema	Diario de Teruel	Mainstream Offline/Online Newspaper	Director	chemalopez@diariodeteruel.net	34	978617086	Provincial	-
9	-		Journal of Plant Protection	Online and Offline	-	zadruzna.stampa@zg.t-com.hr info@zastitabilja.com.hr zrakic.magdalena@gmail.com	38	5012316060	-	Croatian and English
10	-	-	Gospodarski list d.d.	Online and Offline	-	redakcija@gospodarski-list.hr	38	5013843222	-	Croatian
11	-	-	Pomologia Croatica: Journal of the Croatian Agronomic Society	Online and Offline	-	info@agronomsko.hr	38	5014872493	-	Croatian and English
12	-	-	Časopis Poljoprivreda/ Journal of Agriculture	Offline	-	poljoprivreda@fazos.hr	38	5031554821	-	Croatian and English
13	-	-	Agroeconomia Croatica	Online and Offline	-	Ruzica.Loncaric@pfos.hr	38	5031554871	-	Croatian

14	-	-	Agronomski glasnik: Glasilo Hrvatskog agronomskog društva	Online and Offline	-	info@agronomsko.hr	38	5014872493	-	-
15	-	-	Glasilo biljne zaštite	Offline	-	rbazok@agr.hr	-	-	-	Croatian
16	Eva	Funoll	UVic-UCC	-	UVic-UCC communication manager	eva.funoll@uvic.cat	34	679578935	Spain	Spanish and English
17	Pampa	Garcia	Agencia SINC	Specialised Online	Agency Director	esperanza.garcia@fecyt.es	-	-	Spain	Spanish and English
18	Adelina	Marcos	Agencia SINC	Specialised Online	Employee	adeline.marcos@fecyt.es	-	-	Spain	Spanish and English
19	-	-	-	-	-	redaccion@agenciasinc.es	-	-		Spanish and English
20	-	-	Agencia EFE	Specialised Online	Agency	ciencia@efe.es	-	-	Spain	Spanish and English
21	Ana	Morales	Europa Press	Specialised Online	Agency Employee	anamorales@europapress.es	-	-	Spain	Spanish and English
22	Cristina	Saez	-	-	Freelance	saez_cristina@yahoo.es	-	-	Spain	Spanish and English
23	Teresa	Bau	-	-	Freelance	tbaupuig@gmail.com	-	-	Spain	Spanish and English
24	Michele	Catanzaro	-	-	Freelance	catanzaro.michele@gmail.com	-	-	Spain	Spanish and English
25	Nuria	Jar	-	-	Freelance	nuriajarbenabarre@gmail.com	-	-	Spain	Spanish and English
26	Valentina	Raffio	-	-	Freelance	raffiovalentina@gmail.com	-	-	Spain	Spanish and English
27	Lorena	La Fuente	INTA	INTA has social networks, newsletters, website, specialized magazine, a network of communicators	Employee	lafuente.lorena@inta.gob.ar	54	01137548468 / 8400 int 3753	National	Spanish
28	Rose	O'Donovan	Agrafacts	Specialised	-	Rose O'Donovan <rose@agrafacts.com>	-	-	-	English and French
29	Chris	Lyddon	Agrafacts	Specialised	-	chris@agrafacts.com	-	-	EU focused, Brussels based	English
30	Zosia	Wanat	Politico	Mainstream	-	zwanat@politico.eu	-	-	EU focused, Brussels based	English
31	Sarantis	Michalopoulos	EURACTIV	Mainstream	-	sarantis.michalopoulos@euractiv.com	-	-	Europe, Brussels-focused	English
32	Claire	Stam	EURACTIV	Mainstrema	-	claire.stam@euractiv.com	-	-	Europe, Brussels-focused	English

33	Robert	Hodgson	ENDS Europe	Specialised	-	robert.hodgson@haymarket.com	-	-	Europe, Brussels-focused	English
34	Susanna	Ala-Kurikka	ENDS Europe	Specialised	-	susanna.ala-kurikka@haymarket.Com	-	-	Europe, Brussels-focused	English
35	Dafydd	Abiaggo	Argus Media	Specialised	-	dafydd.abiago@argusmedia.com	-	-	Europe, Brussels-focused	English
36	Camille	Louedec	Contexte	Specialised	-	clouedec@contexte.com	-	-	France	French and English
37	Miranda	Johnson	The Economist	Mainstream	-	ukpressoffice@economist.com	-	-	Global	English
38	George	Von Harrach	BBC	Mainstream	-	georg@europe.com	-	-	Europe	English
39	David	Maher	Argus Media	Specialised	-	david.maher@argusmedia.com	-	-	Global	English
40	Ben	Farey	Fertilizer Week	Specialised	-	ben.farey@crugroup.com	-	-	Global	English
41	Alessandro	Mancosu	Informa	Specialised	-	Alessandro.Mancosu@informa.com	-	-	-	English
42	Philip	Clark	Farmers weekly	Specialised	-	philip.clark@rbi.co.uk	-	-	-	English
43	Audrey	Dibet	TERRA - Réussir Group	Specialised ; Online and Offline	Employee (Editor in Chief)	a.dibet@reussir.fr	33	954556458	France Brittany	French
44	via APCA, CRAB, CRAGE and CA80		Other journals of Réussir Group	Specialised ; Online and Offline	-	-	-	-	France and French regions	French
45	via APCA		La France Agricole	Specialised ; Online and Offline	-	-	-	-	France	French
46	via APCA		Terre net	Specialised ; Online	-	-	-	-	France	French
47	via APCA		Plein champs	Specialised ; Online	-	-	-	-	France	French
48	via APCA		Campagne Et Environnement	Specialised ; Online	-	-	-	-	France	French
49	via APCA		Terre Eco	Specialised ; Online	-	-	-	-	-	-

FERTIMANURE

INNOVATIVE NUTRIENT RECOVERY FROM SECONDARY SOURCES-PRODUCTION OF HIGH-ADDED VALUE FERTILISERS FROM ANIMAL MANURE

PROJECT COORDINATOR

Fundació Universitària Balmes (Spain)

CONSORTIUM

Ghent University (Belgium)
Wageningen Environmental Research (The Netherlands)
University of Milan (Italy)
Leitat (Spain)
GreenWin (Belgium)
European Landowners Organisation (Belgium)
IPS Konzalting (Croatia)
Fraunhofer (Germany)
Dorset Green Machines (The Netherlands)
Prinsen Dairy Company (The Netherlands)
French Chamber of Agriculture (France)
Cooperativa Plana de Vic (Spain)
AlgaEnergy S.A. (Spain)
Fertinagro Biotech (Spain)
RITTMO Agroenvironnement (France)
Agrifutur (Italy)
Departament d'Agricultura, Ramaderia, Pesca I Alimentació (Spain)
Fertilizers Europe (Belgium)
Instituto Nacional de Tecnología Agropecuaria (Argentina)

PROJECT WEBSITE:

https://www.fertimanure.eu

Brief project summary

The mission of the FERTIMANURE project is to provide innovative solutions (technology, end-products, and business models) that solve real issues, ie the manure challenge, and help farmers with the challenges that they are currently facing. FERTIMANURE will develop, integrate, test and validate innovative nutrient management strategies so as to efficiently recover and reuse nutrients and other products with agronomic value from manure, to ultimately obtain reliable and safe fertilisers that can compete in the EU fertiliser market.

The FERTIMANURE project will cover both technological and nutrient management approaches. The technological side will be addressed with the implementation of 5 innovative & integrated on-farm experimental pilots for nutrient recovery in the most relevant European countries in terms of livestock production (Spain, France, Germany, Belgium, The Netherlands), whereas nutrient management will be addressed through 3 different strategies adapted to mixed and specialised farming systems:

Strategy #1 with on-farm production and use of bio-based fertilisers (BBF)(1) , **Strategy #2** with on-farm BBF production and centralised tailor-made fertilisers (TMF)(2) production, and **Strategy #3** with on-farm TMF production and use.

Definition of Bio-based fertilisers (BBFs): Bio-based fertilisers (BBFs) are fertilising products or a component to be used in the production of (Tailor-Made) Fertilisers that are derived **from biomass-related resources.**

The BBFs of FERTIMANURE are “obtained through a **physical, thermal/thermo-chemical, chemical, and/or biological processes for the treatment** of manure or digestate that result into a change in composition due to a change in concentration of nutrients and their ratios compared to the input material(s) in order to get better marketable products providing farmers with nutrients of sufficient quality”.

However, just separation of manure in a solid and liquid fraction (as first processing step) is excluded. These products are not conceived as a BBF, although they are valuable sources to supply nutrients on agricultural land.

LIST OF BBFs Produced in FERTIMANURE

Number	BBF-code	BBF product description
1	NL-AS	Ammonium sulphate solution
2	NL-LK	Liquid K-fertiliser
3	NL-SC	Soil conditioner
4	NL-WP	Wet organic P-rich fertiliser
5	NL-DP	*90% dried organic P rich fertiliser (calc)*
6	ES-NC	Nutrient-rich concentrate
7	ES-DSC	Bio-dried solid fraction
8	ES-PA	Phosphorous (ashes)

9	ES-AM	Ammonium salts
10	ES-AA	AA-based biostimulants
11	DE-BC	Biochar (solid)
12	DE-AP	Ammonium phosphate on perlite (solid)
13	BE-AN	Ammonium nitrate
14	BE-AS	Ammonium sulphate
15	BE-AW	Ammonium water
16	FR-BC	Biochar
17	FR-AS	Ammonium sulphate
18	FR-LK	Liquid K-fertiliser

Definition of Tailor-Made Fertilisers (TMFs): A tailor-made fertiliser (TMF) is a customized fertiliser that meets with the nutrient requirements of a specific crop by taking into account the soil type, soil fertility status, and growing conditions and fertilisation practises.

The TMFs obtained in FERTIMANURE are produced from BBFs (produced from manure or digestate and/or other recovered fertilising products that are available) and/or mineral fertilisers (MF) (and/or biostimulants).

Fully crop specific TMFs can be defined and centrally produced assuming e.g. a sufficient nutrient status of a soil type and no additional fertilisation practice.

However, on farm level the soil-crop requirements will be different due to another nutrient status of the soil and the fact that often