



D7.1 Clustering activities with sister projects [1]

Global 2000

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Topic: LC-GD-6-1-2020: Testing and demonstrating systemic innovations in support of the Farm-to-Fork Strategy

List of Abbreviations & Definitions

Abbreviation	Definition
AGROINS	Agroinsider
AGROVAST	AGROVÄST LIVSMEDEL AB
AI	Artificial Intelligence
AKIS	Agricultural Knowledge and Innovation Systems
AOP	Agroecological and Organic Practices
APEMETA	Portuguese Association of Environmental Technologies Companies
CAP	Common Agricultural Policy
CDTA	Centro de demostración y transferencia agraria El Mirador
CERTH	Centre for Research and Technology Hellas
D	Deliverable
DSS	Decision support system
DST	Digital and Space Based Technologies
EU	European Union
F2F	Farm-to-Fork
Fertinagro	Fertinagro Biotech S.L.
FLW	Food Loss and Waste
GD	Green Deal
GD-SO	Green Deal Support Office
GLOBAL	Global 2000 Environmental Research Institute
H2020	Horizon 2020
IKH	IknowHow
IoT	Internet of Things
LCA	Life Cycle Analysis
M	Month
Neoalgae	Neoalgae Micro Seaweed Products SLNE
SEVT	Federation of Hellenic Food Industries
SID	Sidroco Holdings LTD
STAM	STAM SRL
STRATA	Stratagem Energy LTD
T	Task
TellLab	T.E. Laboratories Limited
Tilamur	Jardinería y Viveros la Noria S.L.
TRI	Trilateral Research LTD
UTH	Panepistimio Thessalias - Department of Agriculture Crop Production and Rural Environment of the University of Thessaly
WG	Working Group
WP	Work Package

Executive Summary

The present document constitutes Deliverable (D) 7.1, showing the efforts of Global 2000 and the PestNu consortium members to cluster and collaborate with other relevant projects. This deliverable includes, among others, the organisation and participation in collaborative activities with projects of the same Horizon 2020 (H2020) call, as well as with other similar and complementary EU and national projects and within the Food Working Group (WG) in support of the Green Deal Support Office (GD-SO).

PestNu follows the aim to join forces with other projects and stakeholders, to support a sustainable transition of the food sector, while avoiding duplication of effort. Therefore collaboration with other related projects is of great importance. PestNu currently has 19 collaboration contracts signed with similar and complementary European Union (EU) and national projects, while being in close contact with their representatives. PestNu organised several clustering meetings in person and online, participated in other projects' and common events and initiated bilateral collaborative actions, such as common demonstration activities and dissemination work.

Task (T) 7.1 leaders are in close contact with sister projects from the same Horizon call (LC-GD-6-1-2020). PestNu, as part of the Food Working Group (WG), participated in the meetings and activities of the Green Deal Support Office, as well as in the creation and execution of a common Action Plan. PestNu successfully led the activity of *Mapping common drivers and barriers during project implementation*, by developing a methodology and organising meetings with the involved projects. Further PestNu is taking part in the activities of *Mapping common stakeholders* and *Mapping future events* until the next Food WG meeting in May 2023.

The first PestNu clustering event with 27 EU and national projects took place in Thessaloniki, Greece in July 2022. Building upon that, a PestNu organised another clustering workshop specifically on biopesticide and Integrated Pest Management (IPM) took place in February 2023, where 18 representatives of eight different projects took part in discussing common drivers and barriers and defining future activities for enhancing biocontrol and IPM. For the following project term (M19-36), PestNu will specifically focus on project synergies based on demonstration activities, in order to widen the individual project outreach and demonstrate its innovations under diverse conditions.

This deliverable is a living document associated with Task 7.1 and it will be updated on M36 of the project's duration, and submitted by GLOBAL2000 as D7.1.

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1.Introduction

1.1 PestNu Project Overview

[PestNu](#) is an EU funded Horizon 2020 Green Deal project, running from October 2021 until September 2024, aiming to reduce the dependence on hazardous pesticides and the losses of nutrients of the fertilisers, towards zero pollution of water, soil and air and ultimately fertiliser use, and increase food safety and affordability for all.

The project targets the field-testing and demonstration of Digital and space-based technologies (DST) and Agro-ecological and organic practices (AOP) under a systemic approach to reduce the pesticides and fertilisers use, and loss of nutrients. All the DST will be interconnected to a user-centric cloud-based farm management system, which features a robust Decision support system (DSS) integrated with a blockchain based system for DST data evidence, and Artificial Intelligence (AI) models verification and with a cybersecurity platform to prevent cyber-attacks and Internet of Things (IoT) vulnerabilities. The showcase systemic DST & AOP solutions will be demonstrated and tested in aquaponic and hydroponic greenhouse and open-field vegetable cultivation in Greece and Spain. A pesticide reduction program will evaluate the maximum residue and acceptable daily intake levels to ensure vegetable's food safety and Life Cycle Analysis (LCA) activities will be performed. All these systemic approaches will be performed under a strong collaboration among all the Farm to Fork stakeholders and European Commission services.

Work package (WP) 7 targets the Cooperation with European Commission services, other EU and national projects, as well as the coordination with policy makers and operational groups. WP7 creates a relevant basis for effective policy recommendations, communication, dissemination and exploitation of project results and therefore allows to make the most out of the work and effort of the consortia and the investment in the project. For a project like PestNu, aiming at the development of useful tools to contribute to the EU Green Deal and the Farm2Fork Strategy, collaborative activities are very important, since they will influence the potential exploitation of results and the success of project activities. Collaborative activities with other thematically relevant projects, agencies, platforms and collaboration in regards to relevant policies, strongly increase the range of influence of individual projects. An exchange regarding new innovations and research is essential to avoid duplication of work and learn from each other. Also barriers are more effectively tackled in collaboration with stakeholders and other projects facing similar issues.

1.2 Purpose and scope of this deliverable

This deliverable resumes the work done under T7.1. This task's aim is to identify synergies with other projects funded under the same Horizon 2020 call: Testing and demonstrating systemic innovations in support of the Farm-to-Fork Strategy (LC-GD-6-1-2020) with different subtopics all aiming to accelerate the transition to sustainable food systems. Further, it is of relevance to collaborate with projects working towards the same Green Deal goals in regards to the reduction of hazardous pesticides and fertiliser use, in order to coordinate efforts and reach the maximum uptake of sustainable solutions. Through the creation of collaboration channels for sharing information and creating a basis for developing common policy recommendations, communication and dissemination activities are essential to the project

success. This kind of collaboration will enable more easy approach to stakeholders, such as potential users and investors.

1.3 Structure of this document

This document is structured in an “Introduction” which encompasses a brief PestNu project overview, the purpose of this deliverable and a document structure. Further under Section 2 *Collaboration with projects from the same Horizon call (LC-GD-6-1-2020)* all meetings and clustering activities, as well as the GD-SO action plan are described. Under Section 3 *Collaboration with other EU and national projects*, the communication and events organised with other thematically relevant projects is evaluated. This section includes the PestNu organised hybrid clustering workshop in Greece as well as the online clustering workshop on biopesticides and IPM. Next, Section 4 resumes *PestNu’s partners contributions*. Lastly, further steps and a conclusion are given in Sections 5 and 6, respectively.

2. Collaboration with same Horizon call (LC-GD-6-1-2020) projects and within the Food Working Group

PestNu has been in close collaboration with sister projects from the same Horizon 2020 call: Testing and demonstrating systemic innovations in support of the Farm-to-Fork Strategy ([LC-GD-6-1-2020](#)), under different subtopics. The seven sister projects focus on different sectors and aspects of the food value chain, with the common aim of reshaping the food sector to support a sustainable transition towards a climate resilient, low-carbon, zero waste future.

PestNu Sister projects are the following:

1. [ClieNFarms](#) (Climate Neutral Farms)

This project works towards supporting the transition to climate resilient agriculture and aims to contribute to achieving climate-neutrality of EU agriculture by 2050, through demonstrating, evaluating and improving organisational, technical, and financial innovative solutions at farm level.

2. [NeoGiant](#) (The power of grape extracts)

NeoGiant develops natural antimicrobial and antioxidant products from extracts of white grape marc, to be used for all kinds of livestock and fish, supporting the reduction of antibiotics in farmed animals.

3. [SchoolFood4Change](#) (Shifting school meals and schools into a new paradigm by addressing public health and territorial, social and environmental resilience)

This project aims to make school meals more environmentally sustainable and healthy for the children through the whole school food approach, namely more vegetables, lentils, nuts and diversity on the plate.

4. [SISTERS](#) (Systemic Innovations for a Sustainable Reduction of European Food Waste)

SISTERS aims to reduce food loss and food waste along the different stages of the food value chain in Europe, promoting more direct sales, new technological innovations and awareness campaigns for consumers and retailers, among others.

5. [ZeroW](#) (Systemic innovations towards a zero food waste supply chain)

This project also tackles food loss and waste by developing and testing innovative solutions through living labs at the different stages from post-harvest to consumption. Commercial and digital instruments are developed to contribute to food waste reduction targets.

6. [ENOUGH](#) (European food chain supply to reduce GHG emissions by 2050)

ENOUGH project works towards demonstrating promising technological solutions for reducing greenhouse gas emissions and achieving climate neutrality for food businesses within the main areas of the food chain from harvest to consumption, such as processing, transport and retail.

2.1. PestNu organised Kick-off meetings with same call projects

PestNu initiated and organised several clustering meetings inviting all sister projects, as well as bilateral meetings with some of the sister projects, such as ZeroW and ENOUGH. PestNu suggested collaboration in different areas, although it was difficult to find common ground and most projects did initially not express any interest or did not reply to the request. This could be due to most of them still being in an early project stage, there might be more chances for collaboration in later project stages. Collaboration with some of these projects was later enhanced by the creation of the Food Working Group (WG), supported by the Green Deal Support Office (GD-SO). PestNu actively participated in the meetings, activities and Action Plan of the Food WG. All these meetings and activities are described in detail below and an overview can be found under **Table 1**.

Table 1: PestNu initiated Kick-off meetings with projects from the same Horizon call

Meeting date	Participating projects	Aim of the meeting
May 16th, 2022	ClieNFarms , NeoGiant , SchoolFood4Change , SISTERS , ZeroW PestNu	getting to know each other
May 16th, 2022	ENOUGH , PestNu	getting to know each other, common demonstration activities and dissemination
July 19th, 2022	ZeroW PestNu	exploring collaboration possibilities regarding digital vision/ AI satellite imaging for crop monitoring

2.1.1. Kick-off meeting May 16th, 2022

Scope

The first meeting of sister projects took place online on May 16th 2022 and was initiated by PestNu with the intent to get to know other projects of the same Green Deal call: *Testing and demonstrating systemic innovations in support of the Farm-to-Fork Strategy (LC-GD-6-1-2020)*. The agenda of the meeting was prepared in collaboration with SchoolFood4Change and ZeroW. The aim was for projects to present themselves and identify potential areas of collaboration that are of interest to each project, in order to find common ground for collaboration. All seven sister projects, namely [ClieNFarms](#), [NeoGiant](#), [SchoolFood4Change](#), [SISTERS](#), [ZeroW](#), [ENOUGH](#) and [PestNu](#), were invited and, except for ENOUGH, representatives of each project were able to join, as it can be seen in **Table 2**. Therefore PestNu and ENOUGH agreed on a bilateral meeting later that day.

Table 2: Attendees of sister projects kick-off meeting (16th of May 2022)

Project Name	Project Representatives
ClieNFarms	Jacques Eric, Daniel Zimmer, Laurene Lebelt
NeoGiant	Marta Lores, Nuria Valdes
SchoolFood4Change	Ambre de Simone
SISTERS	Carolina Penalva, Frederica Grassi
PestNu	Ria Pechlivani, Katharina Hoisl, Hanna Zamernik, Maria Zafiropoulou
ZeroW	Anna George, Angele Tasse

Outcomes

[ClieNFarms](#) expressed an interest in creating joint policy recommendations as well as sharing data from LCA. Additionally an emphasis was put on working together regarding the integration of different environmental aspects, connecting different sectors of the value chain and raising awareness and supporting social valorization in agriculture. Potential collaboration areas with [NeoGiant](#) from PestNu side was in food safety. [SchoolFood4Change](#) mentioned interest in joint dissemination activities, policy briefs and social media campaigns. With the [SISTERS](#) project a collaboration opportunity in the field of organic farming and potentially aquaponics was mentioned. [ZeroW](#) mentioned an area of collaboration in digital vision/ remote sensors/ AI satellite imaging for agricultural anomalies monitoring. ZeroW shared that they have a living lab focusing on novel remote sensing solutions for accurate crop monitoring, fruit ripeness assessment & yield estimation and their openness to collaborate in demonstration sites. The importance of mapping the right stakeholders was additionally stated.

PestNu put emphasis on the collaboration possibility and creation of synergies through its digital platform for agro advisory and business services, aiming in the maximization of its overall impact. This tool could be used by sister projects for uploading best practices and training material. Overall it was agreed that all projects see possibilities for collaboration and are interested in following up on it.

2.1.2. PestNu bilateral meetings with Sister projects

PestNu followed up with requests for bilateral collaboration with some of the sister. It was attempted to find commonalities and overlapping themes, such as the use of each other's innovations during field trials, comparison of products, common communication and dissemination activities and participation to events. Ideally both projects can benefit from such a bilateral collaboration, by increasing its outreach or testing an innovation under different conditions for instance.

- [ZeroW](#) and PestNu meeting

Scope

On 19th of July 2022 PestNu partners Global 2000, CERTH and Agrolinsider had a first bilateral collaboration meeting with ZeroW partner ALF (Agrifood Lithuania DHI), with the aim to brainstorm collaboration possibilities regarding digital vision/ AI satellite imaging for crop monitoring through exchange of knowledge and the use of each others demonstration sites.

Outcomes

It turned out that in the scope of the project ZeroW technologies will be used in greenhouses but could potentially also be applied in open fields (at least an area bigger than one ha), while in PestNu, Agrolinsider technologies can exclusively be used in open fields. Still, the possibility was left open for Tilamur/ UTH greenhouses to be used as a demonstration site for ZeroW SILL3. Demonstrations of technologies could be at the end of 2023/ beginning of 2024.

- [ENOUGH](#) and PestNu meeting

Scope

On 16th of May 2022, after the first getting to know with all other Sister projects, PestNu had a separate meeting with ENOUGH, where ENOUGH and PestNu representatives presented themselves and their projects and spoke about collaboration opportunities regarding integrated energy sensors and smart data systems. Projects also discussed collaboration in regards to policy briefs and creating a common website for all sister projects.

Outcomes

The idea of PestNu Partner Masoutis, as a retailer, becoming a demonstrator of the GHG emission reduction technologies of ENOUGH was elaborated, although it was not a priority for ENOUGH to find more demonstrators at this point of the project. The possibility was left open for future collaboration in this regard. The possibility of doing a workshop on technology roadmaps for retailers, as well as participating in relevant events together was elaborated, such as the [ICR 2023](#) in Paris.

2.2. Participation in sister projects and GD-SO workshops and events

2.2.1. [SISTERS](#) webinar series

PestNu has been actively participating in the workshop series on Food loss and food waste (FLW) organised by [SAFE Food Advocacy Europe](#), as part of [SISTERS](#) project. Three workshops have happened so far, as can be seen in **table 3**, two of them on primary production. Twelve more webinars are to follow in the next few years.

Table 3: Sisters webinar series on FLW

Workshop date	Topic	Participating organisations	Content
July 13th, 2022	Introduction	SAFE, Global 2000, CETENMA, KTH, Innovarum Archa, ENCO	Presentation of projects, relevant EU legislation on FLW
October 6th, 2022	Primary production	SAFE, AITIIP, Innovarum, KTH, ENCO, BMS, FEM, ARCHA, Coldiretti, Legacoop, ICLEI, IFOAM, CETENMA, Global 2000, CTIC-CITA, STRATAGEM, IIFIIR	Discussion of different approaches to tackle FLW at production level and EU level
January 31st 2023	Primary production	SAFE, Global 2000, KTH, Innovarum, Q Plan, Ypard Albania,	Sister Project updates, project presentations and discussion on short value chains

2.2.2. [ClieNFarms](#) workshop

On **8th of July 2022** PestNu participated in a workshop organised by ClieNFarms, with the topic of climate neutral farming while ensuring food security in the context of the war in Ukraine.

The Horizon 2020 project ClieNFarms is running since January 2022 and has been testing solutions for climate neutral farms. IFOAM Organics Europe is a project partner, by whom the workshop was organised.

Participants

Speakers

- Jacques-Eric Bergez, INRAE, ClieNFarms coordinator
- Alexander Müller, TMG Think Tank for Sustainability
- Nathalie Bolduc, Research Fellow, IDDRI

Panelists in the policy debate

- Herwig Ranner, Unit Environmental Sustainability, DG Agriculture and Rural Development
- Eric Gall, Deputy Director, IFOAM Organics Europe
- Patrick Pagani, Senior Policy Advisor, COPA-COGECA
- Célia Nyssens, Senior Policy Officer for Agriculture and Food systems, EEB

Moderators

- Daniel Zimmer, Climate-KIC
- Bram Moeskops, Research & Innovation Manager, IFOAM Organics Europe

Outcomes

Fertiliser import from Russia is very high and fossil fuel based fertiliser production is not sustainable. Short term solutions need to be integrated in transformation strategy. We need to share food and machinery and move away from meat consumption. Further we need a change to agroecological practises. Productivity will certainly decrease in business as usual. Agroecology can foster resiliency and productivity. Food security is about distribution!

Our food system is full of interests, also involved in the CAP! We need to provide a comprehensive solution. The EU has to make a strong call for an integrated comprehensive solution.

2.2.3 Webinar on the Network of Multipliers

On **December 19th, 2022** PestNu participated in a webinar on the network of multipliers, organised by Matthew Collings.

Outcomes

Updates on most recent GDSO activities, communications, materials and website and current status of the network.

- Overview of work carried out by the different working groups during the first year and the main conclusions emerging from their action plans.
- Mapping the networks' interests and priorities.
- Updates on planned future activities.

2.2.4 GD-SO Non-Public Online Workshop - Dialogue on selected European Green Deal Policy Priorities

The online workshop **Dialogue on selected European Green Deal Policy Priorities** took place on **12th January 2023 from 9:30 to 13:00** (CET time). It was organised by the Green Deal Support Office (GDSO) in collaboration with DG RTD and other European Commission's services.

Objective

The main objective of the workshop is to provide information about the Commission's policy priorities related to the implementation of the European Green Deal and to outline the ways in which projects funded by the Green Deal Call can contribute to the implementation of these policies. Further aim is to enable project coordinators to have an open discussion with the policy officers and to gain a better understanding of the possible ways their project results can feed into the Commission's policy

processes. Projects were welcome to join different breakout rooms depending on their interest and relevance for their project. PestNu actively participated in the roundtables on Food, Climate and Health.

2.3. Food Working Group Meetings

2.3.1. First meeting on May 31st 2022

Scope

The first Food WG meeting on 31st of May 2022 (9.00-12.00 CET) was promoted by the Green Deal Support Office (GD-SO). The Food WG includes nine projects from two different Green Deal Calls: **Testing and demonstrating systemic innovations in support of the Farm-to-Fork Strategy (LC-GD-6-1-2020)** and **Demonstration of systemic solutions for the territorial deployment of the circular economy (LC-GD-3-2-2020)**. These H2020 projects have in common the focus on reshaping the food sector through supporting a sustainable transition and circular economy towards a climate resilient, low-carbon, zero waste future through research and innovation.

The Food WG has the aim to increase collaboration, create synergies and enhance the impact of projects, through promoting exchange, networking and common actions among WG members. Before the first WG meeting, a Microsoft Teams channel was created by the GD-SO in order to share information between projects and to store useful information for communication and dissemination activities.

Structure

This clustering meeting started with an introduction to the work of the GD-SO and how they will support the Food WG in their collaborative activities. Afterwards, a representative of each project (Agro2Circular, ClieNFarms, ENOUGH, NeoGiANT, PestNu, SchoolFood4Change, and ZeroW) held a short presentation, describing their project objectives, the different WP and potential interesting areas of collaboration. Commonalities between projects WPs were identified, with a focus on finding synergies in the area of policy recommendations. The meeting was followed up with two parallel sessions named "Policy" and "Dissemination and exploitation of project results".

Outcomes

PestNu participated in the "Policy" parallel session, where an effort was made to map and identify different EU policy initiatives to which different projects are expected to contribute to and which are of interest to various projects in order to be able to provide common policy recommendations. A clear timeline and milestones still needed to be defined.

In the parallel session on dissemination and exploitation of project results, maximising synergies by finding ways to stay updated about each other's activities were discussed, as well as ways to share results among stakeholders. The GD-SO offered to help by preparing an excel template with information about social media/ events/ websites of the Food working groups projects, as well as a list with contact details from project coordinators and WP leaders.

After the parallel sessions, everyone returned to the plenary session and the outputs of the parallel sessions were presented and discussed, further steps and the action plan to be developed were briefly discussed.

2.3.2. Second Food WG Meeting (Nov 15th, 2022) and the GD-SO Action Plan

Scope

On November 15th, 2022 a second Food WG meeting took place, where representatives of the GD-SO gave updates and all projects commonly agreed on specifications for the Action plan and actions happening March 2023.

The Action Plan is a living document aiming to record the WG members' collaboration activities and actions implemented in different areas, such as policy recommendations, communication, dissemination and exploitation activities, among others. The Action Plan is meant to be monitored by the Food WG facilitators and updated during WG meetings, taking place biannually. The Action Plan was developed and first shared by the GDSO in August 2022, based on the outcomes and discussions of the first Food WG meeting on May 31st 2022 and the Board of Coordinators meeting on June 22nd 2022.

In parallel to the Action Plan, a survey was shared with all Food WG members and other project partners in order to identify focus areas and actions of interest among the projects in the Food WG. The results were shared and included in the Action Plan. On the second Food WG meeting the Action Plan was specified and three actions were commonly decided upon between the projects which were present.

Outcomes

The focus on the following three action was commonly decided during the WG meeting.

- **Action 1.1. Monitoring policy updates and developments**
- **Action 2.1 Mapping of commonalities**
 - *activity of mapping common stakeholders (PestNU participation)*
 - *activity of mapping common drivers and barriers (PestNu lead)*
- **Action 3.1 Participation in Future Events**
 - *activity of mapping future events (PestNu participation)*

PestNu had the lead in the activity of **Mapping common drivers and barriers** during project implementation, which will further be elaborated under section **2.4.1** of this document. Further PestNu participated in the activity of **Mapping common stakeholders** and **Mapping future events**, by attending meeting and contributing to the shared templates on the Teams channel.

2.4.1. Action Plan - Activity of Mapping common drivers and barriers (PestNu Lead)

Aim & Scope of this action

Mapping of common drivers and barriers is part of the *Action 2.1. Mapping of commonalities* between projects. For the purpose of this mapping an excel sheet was created, where each project was able to fill in and categorise identified topics, drivers and barriers within their project implementation. Afterwards a worksheet was created, where common drivers and barriers were listed. A previous meeting took place where the structure of the mapping and questions by projects were discussed. During the meeting on February 23rd, 2023 identified common drivers and barriers were discussed more in detail. Some screenshots of the meeting are shown in **Figure 1** and **Figure 2**.

Participants

Table 4 shows all participating projects and their representatives in the meeting on February 23rd, 2023.

Table 4: Attendees on meeting for mapping common drivers and barriers

Attending projects	Names of project representatives
PestNu	Katharina Hoisl, Franziska Nittinger, Rita Silva, Maria Zafeiropoulou, Ria Pechlivani
NeoGiant	Iciar Serrano
ENOUGH	Hanne Dalsvag
Agro2Circular	Jerome Friedrichs, Fuensanta Monzo
ZeroW	Vivien Frank, Antoine D'haese
ClieNFarms	Laurene Lebelt
SISTERS	Frederica Grassi, Antoine D'haese

(Excused for this meeting: Ilsa Phillips and Ulrika Backlund from SchoolFood4Change)

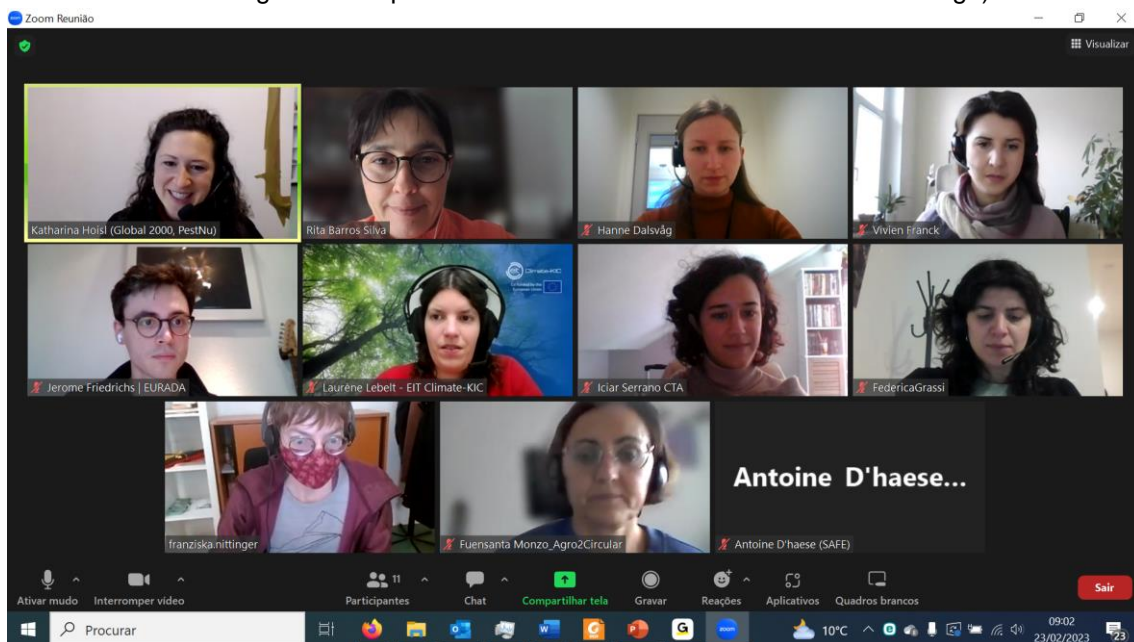


Figure 1: Online meeting on February 23rd, 2023 for mapping common drivers and barriers

Figure 1 Online meeting on February 23rd, 2023 for mapping common drivers and barriers

Identified topics, drivers and barriers during project implementation	Driver/ Barrier	Thematic area	Political Level	Further comments/ specifications	PestNu	CleaFarms	ENOUGH	ZeroW	SF4C	NeoGiant	AgroCircular
Difficulty to reach certain stakeholders	BARRIER	Adoption of products/ tools	Local/ User level	Policy makers, farmers, agricultural workers, vulnerable groups, international stakeholders,...	x				x	x	x
Training programmes and labelling for circular economy products	DRIVER	Training & Knowledge Exchange	European level		x						x
Farmers scepticism regarding benefits and economic advantages of new approved recycled products from food waste	BARRIER	Adoption of products/ tools	Local/ User level		x						x
Lack of regulations supporting the enhancement of more sustainable circular economy products	BARRIER	Business & Economy	European level		x						x
EU Next Generation Funds for sustainable digital technologies	DRIVER	Business & Economy	European level		x		x				
Missing economic feasibility of alternative PLM valuation process	BARRIER	Business & Economy	European level	Difficulty fitting into current supply chains, scalability and competitiveness of new circular economy innovations is an issue				x			x

Figure 2: Online meeting on February 23rd, 2023 for common drivers and barriers in shared Excel

Figure 2 Online meeting on February 23rd, 2023 for common drivers and barriers in shared Excel

Outcomes/ identified drivers and barriers

1. *Difficulty to reach certain stakeholders (eg. policy makers) (BARRIER)*

Most relevant barrier identified by most projects is the “difficulty of reaching certain stakeholders”, including policy makers, international stakeholders, farmers, agricultural workers, vulnerable groups etc. Projects are interested in commonly defining possible pathways to overcome this barrier. One idea was to ask GD-SO for support in reaching policy makers through the Food WG.

Next steps could be building common policy recommendations and organising workshops where such policy recommendations are shared with DG officers for instance.

Further, the involvement of stakeholders such as industry through the identification of best actors & initiatives for cooperating with, such as with the promoters of activities (ex. annual meetings) of the [EU code of conduct](#), as a voluntary commitment, was discussed.

2. *Exploring new (common) ways of dissemination of results to actually create an impact (such as digital repositories, EU farm book,...) (DRIVER)*

This driver was identified during the meeting as relevant for most projects.

3. Farmers scepticism regarding benefits and economic advantages of new upcycled/ recycled products from food waste (BARRIER)

Agro2Circular project mentioned problems with policy makers at regional and national level regarding waste management in Spain. There is no clear definition of a waste product /secondary raw material, which represents a problem, since waste management constitutes a highly regulated activity and, as far as some can perceive, it can be considered a source of risk to human health. Some regulations could then be tree-mapped as well as the way they impact our projects and events could be prepared, dedicated to regional or European stakeholders regarding this topic.

Identified topics, drivers and barriers during project implementation	Driver/ Barrier	Thematic area	Political Level	Further comments/ specifications	PestNu	CleNF arms	NOUG	Zero	WSF4	CeoGla	Agro2 Circular
Difficulty to reach certain stakeholders	BARRIER	Adoption of products/ tools	Local/ User level	Policy makers, farmers, agricultural workers, vulnerable groups, international stakeholders,... (ask GDSO for support to reach policy makers)	X	X		X	X	X	X
Training programmes and labelling for circular economy products	DRIVER	Training & Knowledge Exchar	European level		X						X
Farmers scepticism regarding benefits and economic advantages of new upcycled/ recycled products from food waste	BARRIER	Adoption of products/ tools	Local/ User level		X						X
Lack of regulations supporting the enhancement of more sustainable circular economy products	BARRIER	Business & Economy	European level	New food initiative identified need for labelling sustainable food products...wait and see if it meets our expectations	X						X
EU Next Generation Funds for sustainable digital technologies	DRIVER	Business & Economy	European level		X		X				
Missing economic feasibility of alternative FLW valorisation process	BARRIER	Business & Economy	European level	Difficulty fitting into current supply chains, scalability and competitiveness of new circular economy innovations is an issue				X			X
Exploring new ways of dissemination of results to actually create an impact (such as digital repositories, EU farm book,...)	DRIVER	Training & Knowledge Exchar	European level	Common format for delivering results..?	X	X					
Involvement with EU code of conduct (eg. their meetings,...)	DRIVER	Business & Economy	European level	ask GDSO for support							

Figure 3: Shared template of common drivers and barriers with projects stating their involvement in each of them

Identified topics, drivers and barriers during project implementation	Driver/ Barrier	Thematic area	Political Level	Further comments/ specifications
Difficulty to reach certain stakeholders	BARRIER	Adoption of products/ tools	Local/ User level	Policy makers, farmers, agricultural workers, vulnerable groups, international stakeholders,... (ask GDSO for support to reach policy makers)
Training programmes and labelling for circular economy products	DRIVER	Training & Knowledge Exchange	European level	
Farmers scepticism regarding benefits and economic advantages of new upcycled/ recycled products from food waste	BARRIER	Adoption of products/ tools	Local/ User level	
Lack of regulations supporting the enhancement of more sustainable circular economy products	BARRIER	Business & Economy	European level	New food initiative identified need for labelling sustainable food products...wait and see if it meets our expectations
EU Next Generation Funds for sustainable digital technologies	DRIVER	Business & Economy	European level	
Missing economic feasibility of alternative FLW valorisation process	BARRIER	Business & Economy	European level	Difficulty fitting into current supply chains, scalability and competitiveness of new circular economy innovations is an issue
Exploring new ways of dissemination of results to actually create an impact (such as digital repositories, EU farm book,...)	DRIVER	Training & Knowledge Exchange	European level	Common format for delivering results..?
Involvement with EU code of conduct (eg. their meetings,...)	DRIVER	Business & Economy	European level	ask GDSO for support

Figure 4: Shared excel with identified common drivers and barriers

Next steps

- all involved projects will revise the common excel document and the tab of **common drivers and barriers** and make adaptations if needed

- barriers and drivers will be grouped and most relevant ones chosen
- potentially another meeting in the following weeks together with GDSO should take place to discuss how they can support us
- EU Next Generation Funds - ENOUGH can share more information on this with PestNu and the other projects

3. Collaboration with other EU and national projects

3.1 PestNu collaboration contract

The **PestNu Clustering Form** has been sent to more than 30 relevant EU Projects and so far it has been signed by 19 projects with whom a close exchange has taken place. Those projects are shown in **table 5**.

Table 5: Projects who signed the PestNu clustering form/ collaboration contract

N	Acronym	Project name	Coordinating Organisation	Duration
1	AgriHUB	Establishment of a National Agriculture Research and Innovation Hub	Ministry for Agriculture, Fisheries, Food and Animal Rights, Malta	2020 -2023
2	AgroBridges	Building bridges between consumers and producers by supporting short food supply chains through a systemic, holistic, multi-actor approach based Toolbox	Q-PLAN INTERNATIONAL ADVISORS PC, Greece	2021- 2023
3	AgROBOfood	Business-Oriented Support to the European Robotics and Agri-food Sector, towards a network of Digital Innovation Hubs in Robotics	STICHTING WAGENINGEN RESEARCH, Netherlands	2019 - 2023
4	BACCHUS	Smart robotic system for automated harvesting in agriculture	ARISTOTELIO PANEPISTIMIO THESSALONIKIS, Greece	2020- 2023
5	BIOVEXO	Biocontrol of Xylella and its vector in olive trees for integrated pest management	RTDS - VEREIN ZUR FORDERUNG DER KOMMUNIKATION UND VERMITTLUNG VON FORSCHUNG, TECHNOLOGIE UND INNOVATION, Austria	2020 - 2025
6	DIG_IT	A Human-centred Internet of Things	INSTITUTO TECNOLOGICO DE ARAGON, Spain	2020 - 2024

		Platform for the Sustainable Digital Mine of the Future		
7	Greensprayer			
8	IPM Decisions	Stepping-up IPM decision support for crop protection	RSK ENVIRONMENT LIMITED, United Kingdom	2019 - 2024
9	NeoGiant	The power of grape extracts: antimicrobial and antioxidant properties to prevent the use of antibiotics in farmed animals	CRETUS - Cross Research in Environmental Technologies	2021 - 2025
10	Novaterra	INTEGRATED NOVEL STRATEGIES FOR REDUCING THE USE AND IMPACT OF PESTICIDES, TOWARDS SUSTAINABLE MEDITERRANEAN VINEYARDS AND OLIVE GROVES	INSTITUT DE RECERCA I TECNOLOGIA AGROALIMENTARIES, Spain	2020 - 2024
11	Ploutos	Data-driven sustainable agri-food value chains	GAIA EPICHEIREIN ANONYMI ETAIREIA PSIFIAKON YPIRESION, Greece	2020 - 2023
12	QuantiFarm	Assessing the impact of digital technology solutions in agriculture in real-life conditions	GAIA EPICHEIREIN ANONYMI ETAIREIA PSIFIAKON YPIRESION, Greece	2022 - 2025
13	SchoolFood4Change	Shifting school meals and schools into a new paradigm by addressing public health and territorial, social and environmental resilience	ICLEI EUROPEAN SECRETARIAT GMBH (ICLEI EUROPA SEKRETARIAT GMBH)	2022 - 2025
14	SmartProtect	SMART agriculture for innovative vegetable crop PROTECTion:	INAGRO, PROVINCIAAL EXTERN VERZELFSTANDIGD AGENTSCHAP IN	2020 - 2023

		harnessing advanced methodologies and technologies	PRIVAATRECHTELIJKE VORM VZW, Belgium	
15	SOMIRO	Soft Milli-robots	UPPSALA UNIVERSITET, Sweden	2021 - 2023
16	SPRINT	SUSTAINABLE PLANT PROTECTION TRANSITION: A GLOBAL HEALTH APPROACH	WAGENINGEN UNIVERSITY, Netherlands	2020 - 2025
17	SUSFERT	Sustainable multifunctional fertilizer – combining bio-coatings, probiotics and struvite for phosphorus and iron supply	RTDS - VEREIN ZUR FORDERUNG DER KOMMUNIKATION UND VERMITTLUNG VON FORSCHUNG, TECHNOLOGIE UND INNOVATION, Austria	2018 - 2023
18	Virtigation	EMERGING VIRAL DISEASES IN TOMATOES AND CUCURBITS: IMPLEMENTATION OF MITIGATION STRATEGIES FOR DURABLE DISEASE MANAGEMENT	KATHOLIEKE UNIVERSITEIT LEUVEN, Belgium	2021 - 2025
19	Waste4Green	SUSTAINABLE AND GREEN AGRI-WASTE BASED BIOPESTICIDE	AGENCIA ESTATAL CONSEJO SUPERIOR DE INVESTIGACIONES CIENTÍFICAS (CSIC), Spain	2018 - 2023

An example of a filled out collaboration contract can be seen in **Figure 5** below. All clustering forms are represented in the **Appendix**, at the end of this document. This clustering form has been useful to identify commonalities between projects, areas of interest as well as particular collaborative activities of interest. Depending on the indicated activities, PestNu is putting effort in establishing synergies with the respective project. Overall, most interest has been indicated in terms of:

- Participation in (each other's) workshops/ events
- Organisation of common workshops/ round tables on relevant thematic areas
- Joint policy recommendations
- Joint social media activities for cross dissemination
- Collaboration on projects demonstration sites
- Benchmarking or actions to compare products/ services
- Knowledge exchange/ technical assistance



NETWORKING QUESTIONNAIRE

Project: H2020 LC-GD-6-1-2020 (subtopic C), GA no. 101037128	Activity Clustering Activities	Date 24.01.2023.	
Organisation/Company:	RTDS Group		
Contact person:	Berina Porca, D&C Manager	Phone No.:	068184197029
		Email:	porca@rtds-group.com
Project name:	BIOVEXO Project		
Project web link:	https://biovexo.eu/		

<p>1- Do you think that the H2020 Green Deal PestNu project shares any aspect with the project/activity being carried out by your organisation?</p> <p style="text-align: center;"><input checked="" type="checkbox"/> Yes <input type="checkbox"/> No</p>
<p>2.- If so, indicate the aspects that are common to both projects:</p> <p><input checked="" type="checkbox"/> It is a H2020 project</p> <p><input checked="" type="checkbox"/> It is related to the same topic: Testing and demonstrating systemic innovations in support of the Farm-to-Fork Strategy</p> <p><input type="checkbox"/> It is related to digital and space based technologies</p> <p><input checked="" type="checkbox"/> It is related to agro-ecological practices/ organic farming</p> <p><input checked="" type="checkbox"/> It is based on circular economy</p> <p><input checked="" type="checkbox"/> It aims for chemical pesticide reduction and/or substitution with biopesticides</p> <p><input type="checkbox"/> It aims for reducing loss of nutrients and fertiliser use</p> <p><input type="checkbox"/> Other: _____</p>
<p>3.- Which aspect(s) do you find most interesting for establishing an active contact between projects in order to create and develop a partnership?</p> <p><input checked="" type="checkbox"/> General outcome of the project and the proposed solutions</p> <p><input checked="" type="checkbox"/> Methodological guides (extraction, environmental risk assessment, formulation)</p> <p><input type="checkbox"/> Field test validations</p> <p><input checked="" type="checkbox"/> Environmental awareness raising activities (demonstration activities)</p> <p><input type="checkbox"/> Registration protocols for basic substances</p> <p><input type="checkbox"/> Visits to the experimental fields</p> <p><input type="checkbox"/> Sharing of results and comparing the solutions proposed in your project</p> <p><input type="checkbox"/> Other: _____</p>

Figure 5: Example of filled out PestNu Clustering Form (page 1)



4.- What future actions do you think the partners of both projects/companies could implement?

- Participation in (each other's) workshops/ events
- Organisation of common workshops/ round tables on relevant thematic areas
- Joint policy recommendations
- Joint social media activities for cross dissemination
- Joint press releases
- Publication of scientific articles
- Collaboration on projects demonstration sites
- Benchmarking or actions to compare products/ services
- Knowledge exchange/ technical assistance
- Extended training courses
- Other: _____

5.- Only for projects: Do you authorise us to publish your project logo and web link on the PestNu website and social media?

Yes No

6.- If so, please insert the project logo:

7. Stamp and signature of authorised person:

Josia B.

Data protection clause:

In accordance with the provisions of the Data Protection Act, we inform you that the personal data you have provided us with in connection with the H2020 Green Deal PestNu project and our informative work in relation to the activities of the aforementioned project, have been included in an automated file owned by the consortium of the aforementioned project for the purpose of sending information to users requesting information and to participants in the project's activities. The coordinator of the project and its partners guarantee the exercise of the rights of access, rectification, cancellation, and opposition in the terms set out in current legislation, which may be exercised by means of a formal communication to the e-mail address info@pestnu.eu, where you may also withdraw your consent to receiving information on the activities and other services of the H2020 Green Deal PestNu project.

Figure 6: Example of filled out PestNu Clustering Form (page 2)

3.2 PestNu bilateral collaboration

PestNu has linked many projects we have been in close contact with on its [website](#). During the first 18 months PestNu has had bilateral online and in person meetings, among others with [SUSFERT](#), [Virtigation](#), [Ploutos](#), [SmartProtect](#), [Quantifarm](#) and [Waste4Green](#).

Main outcomes of some these meetings are listed below.

- [SUSFERT](#)
 - common participation to events
 - Green Week in May - more projects can present themselves under one topic
 - organizing a workshop with projects under a specific thematic and having a panel discussion
 - invitation to national workshops
 - structured communication and dissemination activities (press release, linking on websites..)

- [Virtigation](#)
 - VIRTIGATION possibly testing JOPI in its trials in 2023, pending agreement with industrial project partner Corteva that this doesn't create any commercial issues
 - PestNu possibly testing VIRTIGATION products in late 2023/early 2024 in greenhouse (Tilamur) or in open fields (CDTA) in Spain.
 - Joint event between both projects in summer 2023, online or possibly in person in Spain/Italy
 - Promotion of each other's contents on website/social media channels

- [Ploutos/ Quantifarm](#)
 - First policy event organised by Ploutos in early June 2023 - will take place in Brussels
 - Another policy focused event planned together with sister projects at the end of June 2023 in Rome
 - Training Greek farmers/ farmers associations: Next Open day of Ploutos in Thessaloniki in May 2023 - main goal: Knowledge sharing and demonstration (disseminating the actual solutions and how this looks in practice to the different actors of the value chain in the region). Possibility to combine forces there with PestNu and bring more people.
 - National PestNu workshops
 - Exchange regarding policy recommendations
 - Masoutis could join Cestquile Patron (<https://cestquilepatron.com/>) as a real life initiative about a consumer-powered food brand focusing on the sustainability of the agrifood producers - nice business model and involving consumer
 - Share logos and link each other on the websites and communicate common activities

- [SmartProtect](#)
 - Upload Smart Protect on the PestNu website on a sister project section
 - Invite to PestNu's Workshops
 - Common organisation of an event on IPM/ organic farming
 - AGENSO sent us some information from their meetings in Portugal and Denmark

- **Waste4Green**
 - most interesting topics: promote joint dissemination and training
 - organisation of round tables on registration process (joint position)
 - PestNu workshop en of June in Murcia & other PestNu trainings in Spain
 - invitation to W4G final event
 - holistic approach for solutions for plants - global strategy for nutrition, biostimulants and bioprotection taking into account specificity of territory

4. PestNu organised clustering workshops

4.1. PestNu Hybrid Clustering workshop in Thessaloniki, Greece

On July 7th, 2022 from 9.00-17.00 (CET) the first hybrid PestNu Workshop on Clustering Activities was hosted by PestNu coordinating organisation CERTH in Thessaloniki, Greece. 27 different H2020 and other EU projects were presented and/or their representatives took part in one of the three roundtables. An overview of participating projects and their representatives can be seen below in **Table 6**.

Table 6: Projects with their representing participants and organisations in alphabetical order

Project name	Representing participants name	Organisation
AGREMSO3IL	Fulgencio Contreras	CARM
AGRICORE	Konstantinos Mattas	AUTH
Agro2Circular	Ángel Martínez, Ana Morales	CTNC
agROBOfood	Dimitra Perperidou	WUR
AgroSatAdapt	Patricia Lourenco Diogo Alagador	AgroInsider UEVORA
Algae4Fuel&Aqua	Nikolaos Katsoulas	UTH
AURORAL	Paula Peiró García	Alentejo
BACCHUS	Dimitrios Giakoumis Zoi Doulgeri	CERTH AUTH
CasH	Nikolaos Katsoulas	UTH
ClieNFarms	Laurene Lebelt	Climate-KIC
DIAS	Prof. Sarigiannidis	UOWM
ENOUGH	Ianna Dantas	Uni Göttingen
FoodOASIS	Nikolaos Katsoulas	UTH
Greenspayer	Nikos Frangakis	IKH
MARS	Prof. Sarigiannidis	UOWM
Oenolytics	Nikos Frangakis	IKH
Organic PLUS	Nikolaos Katsoulas	UTH
Precimed	Maria Fernanda Ortuño Gallud	CSIC
SCORPION	Filipe Neves dos Santos	INESCTEC
SISTERS	Carolina Peñalva Lapuente	Fundación AITIIP
SMART	Prof. Sarigiannidis	UOWM
SMARTROOT	Prof. Sarigiannidis	UOWM
TERMINET	Prof. Sarigiannidis	UOWM
VIRTIGATION	Hervé Vanderschuren Kumar Vasudevan	KULEUVEN

Project name	Representing participants name	Organisation
<u>WASTE4GREEN</u>	Azucena González Coloma, ICA	CSIS
<u>ZeroW</u>	Angele Tasse, Anna George	ICLEI, Inlecom Systems

The Greek Benaki Pathology Institute (BPI), which has been quite involved in PestNu activities and is a member of the Advisory Board (IAB), presented several other EU projects during their presentation. Some of these running projects, such as [FF-IPM](#), [PLANT_B](#), [ZEROPARASITIC](#), [BENEFIT-Med](#), [Clima-Med](#), [Pure AgroH2O](#) are thematically relevant for PestNu and show further potential for clustering.

4.1.1 Workshop aims

This clustering workshop was meant to promote exchanges and identify potential synergies of participating European projects, in order to contribute to achieving the Green Deal objectives, such as reducing hazardous pesticide use and nutrient losses from fertilisers.

The aim was also to discuss a broader policy framework regarding the legislations around digital technologies, IPM, INM, organic farming and sustainable product labelling.

4.1.2. Workshop structure

The workshop started with PestNu Project Coordinator Dr. Eleftheria Maria Pechlivani, from CERTH welcoming the participants and giving a short presentation on the Green Deal objectives regarding pesticide and fertiliser use. Afterwards, presentations by PestNu partners and IAB members aimed to give a common framework on the opportunities and challenges throughout the whole F2F stakeholder value chain. Aside from Dr. Pechlivanis' presentation, a few more PestNu consortium partners gave thematic presentations at the workshop.

Dr. Fotini Salta from SEVT of the Greek Cluster presented the European Farm to Fork Strategy and the challenges for the Greek Food Industry.

Austrian Cluster partner representatives Hanna Zamernik and Katharina Hoisl gave a presentation about GLOBAL 2000's fields of work and the connection to the work within PestNu and the Green Deal objectives.

Different running H2020 and other EU project coordinators and task leaders presented their work and afterwards took part in one of the three different roundtables (RT):

- RT1: Agriculture 4.0 (regarding the reduction of pesticides/fertilisers)
- RT2: Pesticides free agriculture & Organic Farming
- RT3: Food Wastes

The roundtables focused on the identification of barriers in EU policy for the success of project innovations, commonalities, opportunities in collaboration and possible joint activities for enhancing solutions. A guided tour in the CERTH facilities was also part of the workshop for all participants, who were present in person.

4.1.3. Participants and Presentations

There were 20 representatives from 12 PestNu partner organisations from 6 Country Clusters present at the workshop, as it can be seen in **Table 5**. In the Workshop a total of 21 presentations were given, which are listed in **Table 7**.

Table 7: Participating Consortium partners in an alphabetical order

Name of organisation	Country Cluster	Name of participant
Agroinsider	Portugal	Patricia Lourenco
APEMETA	Portugal	Rita Silva
APEMETA	Portugal	Leonor Cardoso
CDTA	Spain	Joaquin Castejon
CERTH	Greece	Eleftheria Maria Pechlivani
CERTH	Greece	Christos Zisis
CERTH	Greece	George Gogos
CERTH	Greece	Nikolaos Giakoumoglou
CERTH	Greece	Georgia Lamponikou
GLOBAL 2000	Austria	Hanna Zamernik
GLOBAL 2000	Austria	Katharina Hoisl
IKH	Greece	Nikos Frangakis
IKH	Greece	Spyros Garifallidis
Masoutis S.A.	Greece	Augustina Gkalitsopoulou
Neoalgae	Spain	Mario Blanco
SEVT	Greece	Fotini Salta
Stamtech	Italy	Giorgia Eranio
Trilateral Research	England	Irma Poder
UTH	Greece	Nikolaos Katsoulas,
UTH	Greece	Sofia Faliagka

Table 8: Title of presentations in an alphabetical order

Presentation title	Name of presenter	Project / Organisation
Actions of Benaki Phytopathological	Emilia Markellou	BPI

Presentation title	Name of presenter	Project / Organisation
Institute in the frame of the European Green Deal		
AGREMSO3IL - LIFE (2018-2022)	Fulgencio Contrrera	Agremoso3il
AGRICORE - H2020 (2019-2024)	Konstantinos Mattas	AGRICORE
Agro2Circular - H2020 (2020-2024)	Angel Martinez	Agro2Circular
agROBOfood - H2020 (2019-2023)	Dimitra Perperidou Anna Tourtoura	agROBOfood
AgroSatAdapt – LaCaixa (2018-2022)	Diogo Alagador, Patricia Lourenco	AgroSatAdapt
AURORAL - H2020 (2021-2024)	Paula Peiro Garcia	AURORAL
BACCHUS - H2020 (2020-2023)	Dimitrios Giakumis Zoi Doulgeri, AUTH	BACCHUS
CasH - GR NSRF Greece - Germany bilateral project (2018-2021) FoodOASIS - GR NSRF (2018-2021) Algae4Fuel&Aqua - GR NSRF (2018-2021) Organic PLUS - H2020 (2018-2022)	Nikolaos Katsoulas	CasH, FoodOASIS, Algae4Fuel&Aqua, Organic PLUS
Demands, Challenges and Sustainability Goals for the Fertilizer Industry	Agapi Katsoulieri, Dr. Giannakopoulou Fotini	SPEL
Food market: policy and regulations on residues end customer behavior	Augustina Gkalitsopoulou	Masoutis
For a world without toxins - 40 years of dedicated work towards a healthy environment	Hanna Zamernik Katharina Hoisl	GLOBAL 2000
Green Deal objectives on Pesticides and Fertilizers PestNu - H2020 (2021-2024)	Eleftheria Maria Pechlivani	CERTH
Greenspayer - H2020 (2019-2023), Oenolytics - GR EPAnEK (2021-2023)	Nikos Frangakis	IKH
LANDMARC -H2020 (2020-2024)	Jenny Lieu	LANDMARC
Oenolytics - GR EPAnEK (2021-2023)	Panagiotis Radoglou Grammatikis	TERMINET, SMARTROOT, MAR, DIAS, SMART
Precimed - PRIMA (2019-2022)	Maria Fernanda Ortuno Gallud	Precimed
SCORPION - H2020 (2021-2023)	Filipe Neves dos Santos	SCORPION

Presentation title	Name of presenter	Project / Organisation
TERMINET - H2020 (2020-2023) SMARTROOT - Erasmus KA2 (2020-2023) MARS - GR NSRF (2018-2021) DIAS - GR NSRF (2018-2021) SMART - GR NSRF (2020-2023)	Prof. Sarigiannidis	TERMINET, SMARTROOT, MAR, DIAS, SMART
The European Strategy Farm to Fork and the challenges for the Greek Food Industry	Fotini Salta	SEVT
VIRTIGATION - H2020 (2021-2025)	Herve Vanderschuren and Kumar Vasudvan	Virtigation
WASTE4GREEN - LIFE3 (2018-2022)	Azucena Gonzalez Coloma	WASTE4GREEN

4.1.4. Key findings of the roundtables

RT1: Agriculture 4.0

Participants

1. Nikolaos Giakoumoglou (CERTH)
2. Dimitra Perperidou (agROBOfood)
3. Anna Tourtoura (agROBOfood)
4. Sofia Faliagka (UTH)
5. Christos Staboulis (Industry)
6. Dimitris Natos (AUPh)
7. Patricia Lourenco (AgroInsider)

Participants identified the most effective ways for knowledge sharing, such as conferences, papers, publications, common projects, media articles etc. Reported collaboration areas of interest were research, interaction with citizens and stakeholders, as well as demonstration activities and common projects. Participation in AKIS and CAP advisory actions were stated as current activities. Participants agreed that it would be useful to further develop collaboration in terms of tools and knowledge sharing, as well as common training workshops, although often in reality barriers come up, such as a lack of a common framework for collaboration. It could therefore be useful to increase design thinking.

For increasing the inclusion of small and medium-sized farms, the involvement of associations, open calls, events, financial networks, initiatives for ICT democratisation were discussed, among others. For making technical tools generally more available and facilitating their introduction to the market, the following ideas were mentioned: multi stakeholder approaches, consultation and feedback of stakeholders, dissemination between partners, further research to enhance market reach, as well as free pilots, showing results, addressing real problems and empathising with end users.

The tools for training the advisors and farmers were stated by all participants to be free and open. In regards to prices of technologies, a wide range and a difficulty in pricing was concluded. It was agreed by all that mass production can help lower the costs of precision farming innovations.

RT2: Pesticides free agriculture & Organic Farming

Participants
1. Ria Pechlivani (CERTH)
2. Georgia Lamponikou (CERTH)
3. Juan José Alarcon (CEBAS-CSIC)
4. Agapi Katsoulieri (SPEL)
5. Emilia Markellou (BPI)
6. Nikolaos (Nikos) Katsoulas (UTH)
7. Maria Fernanda Ortuno Gallud (CSIC)
8. Fulgencio Contreras (CARM)
9. Giorgia Eranio (Stamtech)
10. Katharina Hoisl (GLOBAL2000)
11. Mario Blanco (Neoalgae)

Round Table 2 on pesticide reduction and organic farming, the following topics were brought into discussion by PestNu Coordinator and discussed by participants:

EU Organics legislation on plants having to grow on soil

The EU organics legislation states the condition of plants having to grow in soil to be eligible to be certified as organic. This was mentioned as a barrier for labelling aquaponic and hydroponic vegetables as organic food, which was argued to hinder the lowering of costs. As aquaponic farmers for instance do not use chemical pesticides, the question was raised on what could be done for these regulations to become more flexible and benefit aquaponic and hydroponic farmers. It was mentioned that in regards to aquaponics, different aspects need to be considered for an organic certification, such as fish feed and animal welfare.

The basis of the organics legislation was discussed, namely that healthy soil supports healthy plant development and more resiliency to pathogens. Also the issue with pesticide residues in soil was pointed out as a topic which no one really speaks about and which is not covered by EU legislation. Although there are thresholds for acceptable levels of pesticide residues in water, there are no such rules for pesticide residues in soil. Modelling is used to calculate expected residue levels and compare to actual ones. Pesticide residues and active substances in soil do not necessarily get absorbed by the plants growing in the soil, but its consequences are not well known yet and therefore it is an important issue to consider and look more into.

Many participants highlighted the EU Organic legislation on plants having to grow on soil as a relevant barrier for PestNu innovations, aquaponics and hydroponic growers, and supported the idea of policy recommendations proposing changes in this legislation. It was proposed to work together on this topic with different stakeholders, collecting justifications from a technical and economic perspective, on why soil is not needed, and what procedures can be used in such modern food systems to be certified as organic. Also stressing the argument of what industries producing bio-products could gain from such a change in regulations and presenting a reasonable recommendation at the end of PestNu project. The need to elaborate conditions under which organic organisations, like IFOAM and Copa Cogeca, would be willing to work together on this topic and promoting synergies with them was stated as being vital.

Sustainable food labelling

The lack of labels expressing the overall sustainability of food products was identified as missing. Sustainability encompasses many aspects and therefore the dots from farm to store need to be connected, information combined and the whole process monitored. One project cannot achieve this, it would instead need to be done in collaboration with other projects.

The need to protect regional and national specifications and working on a member state level was highlighted as important, because there are large differences between northern and southern countries.

AKIS and CAP network

RT Participants stated their experience with AKIS and CAP systems and the importance of knowledge transfer and training. A multi-actor approach and early stakeholders' involvement was stressed as being vital for successful innovations.

A qualified transfer service, such as extension services, were mentioned as a good way for knowledge transfer. It was mentioned that the new CAP will give subsidies to growers who can prove that they do something more in regards to sustainability, which will therefore be a motive for farmers to take up IPM (Integrated Pest Management) for instance.

Decreasing organic food prices

Some participants stated that subsidies are useful but shouldn't be the only policy tool in the EU to decrease organic food prices through projects technologies and increasing dissemination of sustainable practices. It would be important to have tools encouraging knowledge transfer, demonstration and training.

Best approaches identified were demonstration sites, workshops in living labs, open days and training activities on the new technologies use. Agricultural consultants and advisers for companies should also be trained for being able to disseminate the information.

It would be important to have a shared database for having access to what is done between the related projects. The possibility of using the digital platform of PestNu for this purpose was mentioned.

Another barrier mentioned in this roundtable was the relatively long and expensive procedures at EU level to put new products on the market, even for bioproducts falling under the category of plant protection products.

RT3: Food Waste

Participants

1. Rita Barros Silva (APEMETA, PestNu)
2. Leonor Cardoso (APEMETA, PestNu)
3. Hanna Zamernik (GLOBAL, PestNu)
4. Chris Czisis (CERTH, PestNu)
5. Ines Pacheco (GD-SO)
6. Laurene Lebelt (ClieNFarms)
7. Carolina Penalva (SISTERS)
8. Anna George (ZeroW)
9. Ana Morales (Agro2Circular)
10. Sofía Martínez (Agro2Circular)
11. Ianna Dantas (ENOUGH)
12. Azucena Gonzales Coloma (WASTE4GREEN)

Most RT3 participants were sister projects from the same call as PestNu and had already met, which allowed for continued and in depth discussion on collaboration possibilities. Present in the roundtable discussion were representatives from the projects ClieNFarms, SISTERS, Agro2Circular, ZeroW, ENOUGH and PestNu. Additionally a representative from the Green Deal Support Office (GD-SO) was taking part, as listed above.

New common barriers identified during the round table were a lack of standardisation of new organic ingredients and extracts, the logistics for sourcing food waste, the lack of business models incorporating waste usage, the length and complexity of the registration of new products produced from waste sources, and the limitations by existing regulations which don't allow for recovering certain types of wastes even though actual technology allows to avoid hazardous molecules and others (eg. the one for animal by-products, not intended for human consumption).

Projects spoke about connecting to AKIS and EIP-AGRI networks, for identifying information needs for a more effective sharing of activities and results. Despite the differences in project topics and goals, many ways of collaboration were identified, such as joint training activities and knowledge transfer on technology use, and the development of joint policy recommendations. Collaboration on demonstration sites/ living labs, new products, guidelines for sustainable labelling etc. Continuing clustering activities, sharing and updating between projects were agreed to be vital.

4.2. PestNu Clustering workshop on Biopesticides and IPM (February 2023)

4.2.1. Workshop scope

The workshop took place on **February 28th 2023, from 13.00 to 16.00 CET**, Online. It aimed to bring together related projects in the area of biopesticides and IPM adoption. Projects got to know each other and discussed already identified common drivers and barriers during project implementation in detail.

4.2.2. Workshop structure

The workshop started with an introduction and six project presentations, followed by a roundtable discussion on relevant, previously identified drivers and barriers, a summary and definition of next steps.

Agenda:

13:00	Welcome & short introduction
Project presentations	
13:10	SmartProtect , <i>Sabien Pollet (Inagro)</i>
13:25	Virtigation , <i>Jasmine Zorrilla (KU Leuven)</i>
13:40	IPM Decisions & IPM Works , <i>Mark Ramsden (RSK ADAS Ltd)</i>
13:55	Waste4Green , <i>Lucia Martín (ICA-CSIC)</i>
14:10	BIOVEXO , <i>Stéphane Compant (Austrian Institute of Technology)</i>
14:25	PestNu , <i>Katharina Hoisl (Global 2000)</i>
Round table discussion on identified common barriers	
14:45	Topics of discussion <ul style="list-style-type: none"> • Producers lack of trust in new bioproducts and digital tools • Need for IT trainings and awareness raising • Lack of efficient and <u>organised</u> (national) advisory services • Relatively long registration procedures for biopesticides • Financial difficulties to adopt new tools/ low willingness to pay for innovations
15:45	Summary and next steps
16:00	End of event

Figure 7: Agenda of the IPM and biopesticide clustering event

4.2.3. Participants and presentations

18 representatives from eight EU projects ([PestNu](#), [SmartProtect](#), [Virtigation](#), [Waste4Green](#), [IPM decisions](#), [IPM works](#), [Biovexo](#), [SPRINT](#)) working in the area of biocontrol and integrated pest management actively took part in this workshop. The names and organisations of the participants are shown in **table 9**.

Table 9: Participants in clustering workshop on IPM and biopesticides

N	Participating project	Duration	Project representative	Organisation
1	PestNu	2021 - 2024	Katharina Hoisl Rita Silva Maria Zafiropoulou	Global 2000 Apemeta Stratagem
2	SmartProtect	2020 - 2023	Sabien Pollet (PCo) Mike Kaminiaris	Inagro Agenso
3	Virtigation	2021 -2025	Jasmine Zorrilla David Donnerer Berina Porca Kumar Vasudevan Carmelo Rapisarda	KU Leuven RTDS Group RTDS Group KU Leuven UNICT
4	Waste4Green	2018 - 2023	Lucía Martín Azucena (PCo) Ana Espejo Maria Fe Andres	ICA-CSIC ICA-CSIC CTAEX ICA-CSIC
5	IPM decisions	2019 - 2024	Mark Ramsden	RSK ADAS Ltd
6	IPM works	2020 - 2024	Mark Ramsden	RSK ADAS Ltd
7	Biovexo	2020 -2025	Mikkael Muegge (PCo) Stéphane Compant	RTDS Group AIT
8	SPRINT	2020 - 2025	Ana Frelih Larsen	Ecologic Institute

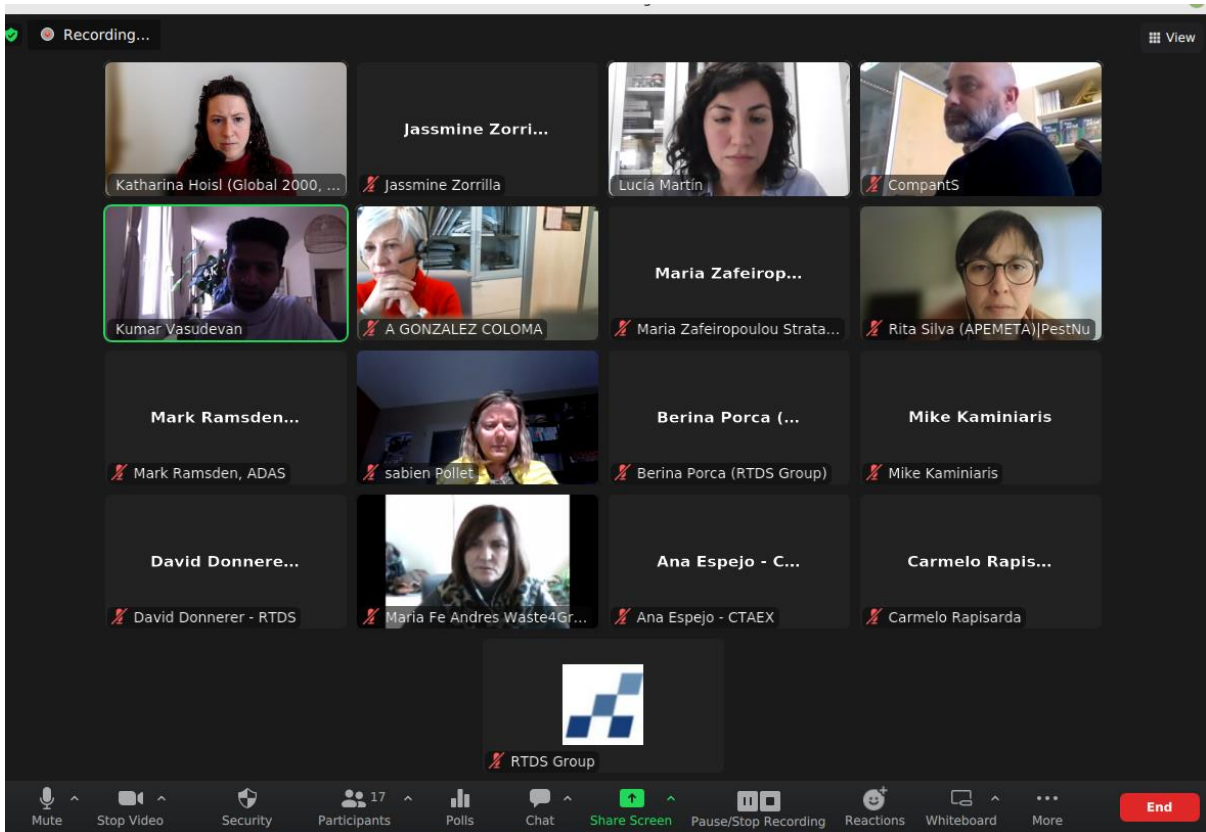


Figure 8: Online clustering event with IPM and biopesticide related projects

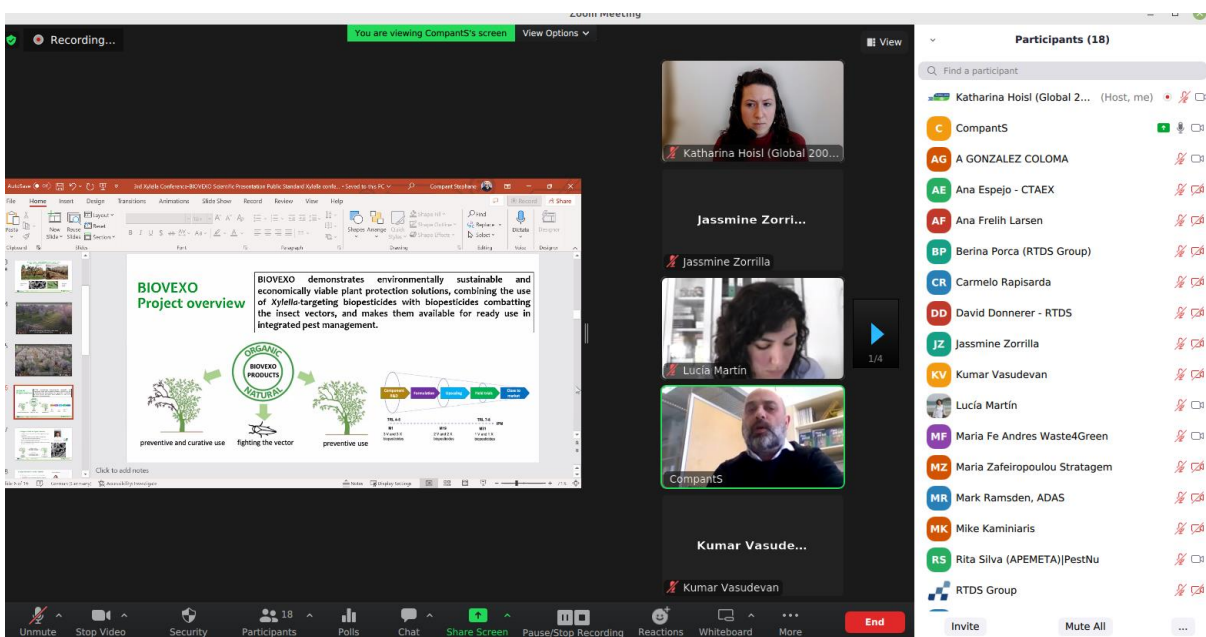


Figure 9: Online clustering event with IPM and biopesticide related projects (Biovexo presentation)

4.2.4. Key Findings - Common drivers and barriers discussed

1. **Producers scepticism/ lack of trust in new bioproducts & digital tools (BARRIER)**
 - Building of trust through demonstrations is important
 - slow transition: it takes a long time to demonstrate solutions under different conditions and we need to make sure that in the end there are real solutions people have faith in (advertising is not very effective; we need to move away from polarized attitudes)
 - people are risk averse -how can we set up conditions which buffer risks for farmers, in order to make it easier for them to try out new technologies/ tools?
 - many farmers are open to new solutions but have high expectations for improvements
 - often language barriers exist and content translation for local audience is time consuming but very useful
 - Limited internet access in the field is a barrier and a wider infrastructure support should be a priority

2. **Producers financial difficulties to adopt new tools/ low willingness to pay for innovations (eg. DSS) (BARRIER)**
 - although there is a general low willingness to pay for innovations, people are simultaneously more likely to trust systems, they are paying for
 - Products are often too expensive
 - Segmentation of land represents a barrier to technology adoption (eg. Greece). Large farms are more likely to adopt tools.

3. **Need for more IT trainings and awareness raising, as well as lack of efficient and organised (national) advisory services (BARRIER)**
 - Good advisory and demonstrations play an important role, since there is still existing lack of knowledge for alternative products and practises
 - Public vs. private advisory services (often private and sometimes public ones are dominated by productive and conventional driven advisors, who are not open for alternatives.)
 - Bottlenecks to advisory starts in technical schools, where there is a general lack of attention to alternatives to chemicals in the curricula
 - **In the EU Farm book** all project outputs will be collected and the uploaded innovations will hopefully be useful for advisors (It would be great if this became a permanent feature adopted by the EC). Still it will happen later on this decade and for some projects, for sure in their afterlife.

4. **Relatively long (and expensive) registration procedures for biopesticides according to Regulation (EU) No 1107/2009 (BARRIER)**
 - Cost of registration for biopesticides are often too high for SMEs; it is the same long process for biopesticides as for chemical products
 - IBMA (International biocontrol manufacturers) & DG Sante are working on making registration procedures for biopesticides easier

5. Potential increased support from EU directives/ regulations (eg. regulation on Sustainable Use of Plant Protection Products (2021/2115)) (DRIVER)

- It is not clear yet if the EC is going to propose a Sustainable food law
- Important to strengthen farmers' negotiating position in the market & this needs changes in market conditions (eg. shorter supply chains, public procurement for organic...

4.2.5 Next steps and potential activities

Table 10: Potential activities and projects involved

Activity	Specifications	Activity lead	Interested projects
Sharing our tools and platforms internally	Projects like SmartProtect and IPM decisions can show other projects how to best engage with their tools and platforms. Another meeting specifically on this could be organised in April 2023.		SmartProtect, IPM decisions, PestNu
A common event on scientific level with different EU projects on IPM transition	Common target; what is working and what is failing?	BIOVEX O?	PestNu
Collaboration on the registration process of biopesticides	Online meeting to discuss how to collaborate with IBMA and DG Sante on making registration procedures easier/ more efficient for biopesticides	PestNu	PestNu, Biovexo, Waste4Green

Apart from these specified three activities, project events will be shared and other projects invited, as well as linking each other to the website and other dissemination activities.

5. PestNu partner's contributions

Table 11: CERTH PestNu relevant and running projects

Project name	Project scope and link to PestNu	Contact Person in PestNu
<u>AURORAL</u> H2020 H2020 DT-2020-1 (2021-2024)	AURORAL focuses on increasing connectivity and delivering a digital environment of smart objects interoperable services platforms able to trigger dynamic rural ecosystems of innovation chains, applications and services. AURORAL adopt a co-design and co-development approach with the intention to deliver a dense network of Smart Communities under a common multi-interoperability framework aimed at succeeding the just, fair and open digital transformation. The AURORAL innovation is demonstrated at large-scale, considering targeted-domain and cross-domain pilots.	CERTH Anastasios Drosou <drosou@iti.gr> Τηλ.: +30 2311 257732
<u>BACCHUS</u> H2020 ICT-10-2019 (2020-2023)	Development of modular robotic platform, Robot navigation with quality performance guarantee to inspect the crops and collect data from the agricultural area through embedded sensorial system, additive manufacturing for adjusting the robot parts. Bacchus can assist in auto navigating robots.	CERTH Dimitrios Giakoumis <dgiakoum@iti.gr> Τηλ.: +30 2311 257707 CERTH Dimitrios Tzovaras <Dimitrios.Tzovaras@iti.gr> Τηλ.: +30 2311 257777
<u>SnapEarth</u> H2020 DT-SPACE-01-EO-2018-2020 (2019-2022)	The SnapEarth project aims to highlight new values through large-scale land-use data services and anticipate future priorities by leveraging artificial intelligence technologies and tools and cloud computing. SnapEarth's major innovation lies in a new data analysis service, EarthSignature, which aims to automatically extract semantic information from satellite imagery. The exported semantic information will be indexed by the QWANT search engine and then made easily accessible to a wide range of user communities. SnapEarth is proposing many pilot projects. The following pilot projects are associated with many land-related markets such as EarthClimate, Agri and Food.	CERTH Anastasios Drosou <drosou@iti.gr> Τηλ.: +30 2311 257732 CERTH Dimitrios Tzovaras <Dimitrios.Tzovaras@iti.gr> Τηλ.: +30 2311 257777

Table 12: APEMETA PestNu relevant and running projects

Project name	Project scope and link to PestNu	Contact Person in PestNu
<u>Dinamizar and Formação PME</u>	Nationally funded Projects of Training – Action for SMEs. Main goals are to help around 210 SME from several areas (tourism, industry,	APEMETA, Jose Costa, jose.costa@apemeta.pt

Project name	Project scope and link to PestNu	Contact Person in PestNu
	Construction, Commerce, etc) to increase resilience and competitiveness. Through training actions on main areas such as Internationalisation, Digital Economy, Innovation, Sustainability and Environmental Responsibility, Management Systems or Industry 4.0, followed by individual SME consulting, entrepreneurs and employees are expected to reinforce their skills and be able to implement effective changes towards increasing competitiveness.	
<u>INJOVEM II - INovação, JOVem, EMpreendedorismo</u>	Nationally funded Project for Collective Support to Youth Eco Entrepreneurship. Main goals are to promote activities with VET students and University students and finalists focusing and addressing the development of soft skills and know-how needed to reinforce qualified entrepreneurship namely on areas such as eco-innovation, sustainability and digitalization in line with current societal challenges; and the incubation and acceleration of at least 30 entrepreneurial ideas throughout individual training and support to business plan development, aiming at the creation of new start-ups on technological and or cultural and creative areas based on knowledge intensive activities that address Green and or Digital challenges and or Sustainable Development Goals.	APEMETA, Jose Costa, jose.costa@apemeta.pt
<u>AMEX III - Ambiente e Exportação</u>	Nationally funded Project for Collective Support to the Internationalisation of the Environmental Sector. Main goals comprise international dissemination of Portuguese Environmental Sector skills and competences, the production of open access technical publications for suppressing knowledge gaps among sector on international environmental markets main characteristics and legislation, as well as the search and maintenance of cooperation protocols with similar entities worldwide for promotion and development of activities reinforcing detection and communication of business opportunities between Portugal and other countries, International contacts or/and the internationalisation of the companies, namely SME.	APEMETA, Jose Costa, jose.costa@apemeta.pt
<u>AMBIPOR III – Ambiente em Portugal III (ongoing, 04/2020-04/22, POCI-02-0853-FEDER-046396)</u>	Nationally funded Project for Collective Support to the Capacitation of the Environmental Sector in Portugal. Main goals comprise the production of open access technical publications for suppressing knowledge gaps among sector, workshops for fostering cooperation and learning/sharing of knowledge on relevant themes and the upgrade of www.ambienteportugal.pt an open access	APEMETA, Jose Costa, jose.costa@apemeta.pt

Project name	Project scope and link to PestNu	Contact Person in PestNu
	directory of Portuguese companies' profiles, projects and interests for fostering cooperation and coepetition.	

Apemeta reached out to the Portuguese organisation [INESCTEC](#), namely [TEC4AGRO](#) and talked about similar and complementary projects to PestNu to cluster with. At national level the following similar and complementary projects were identified: [InOlive](#), [INFRAVINI](#), [SMARTDRYING](#), [SMART FERTILIZERS](#).

Similar and complementary EU projects to PestNu identified by Apemeta were [SCORPION](#), [NOVATERRA](#), [agROBOfood](#) and [SusMedHouse](#). These projects will further be mentioned under projects of interest for further collaboration.

Additionally, [Agrinupes](#) ERA-NET Cofund WaterWorks2015 was also emphasised as relevant, although this project had already ended.

All mentioned running projects were invited by Apemeta to participate in the clustering event in Greece and the projects SCORPION, NOVATERRA and AgROBOfood participated.

Table 13: UTH PestNu relevant and running projects

Project name	Project scope and link to PestNu	Contact Person in PestNu
CasH GR NSRF (2018-2022)	Cascade Hydroponics an integrated approach to increase productivity, resource use efficiency (water, fertiliser, light, energy) and sustainability of protected horticulture; studies on water scarcity or depletion index, acidification and eutrophication potentials. Synergies at Pilot Greenhouse or UTH facilities.	UTH Nikolaos Katsoulas <nkatsoul@uth.gr> +302421093249
<u>Organic PLUS</u> (H2020_SFS-08-2017, 2018-2022)	Pathways to phase-out contentious inputs from organic agriculture in Europe. Synergies at Pilot Greenhouses or UTH facilities.	UTH Nikolaos Katsoulas <nkatsoul@uth.gr> +302421093249
<u>FoodOASIS</u> GR NSRF (2018-2022)	Development and optimization of an aquaponic system to increase sustainability in food production. Synergies at Pilot Greenhouses or UTH facilities.	UTH Nikolaos Katsoulas <nkatsoul@uth.gr> +302421093249
<u>Algae4Fuel&Aqua</u> GR NSRF (2018-2022)	Exploitation of liquid wastes for microalgae cultivation and use for biodiesel and aquafeed production. Synergies at pilot sites/ UTH facilities.	UTH Nikolaos Katsoulas <nkatsoul@uth.gr> +302421093249
<u>Precimed</u>	The main objective of PRECIMED will be to build a data driven irrigation management system in order to improve Water and Nutrient Use Efficiency (WUE and NUE, respectively) in the Mediterranean Region, by integrating the knowledge about fertilisers and irrigation water management with Information Communication Technologies (ICTs), which will be respectful with the environment and socio economically profitable. Synergies at pilot sites/ UTH facilities.	UTH Nikolaos Katsoulas <nkatsoul@uth.gr> +302421093249

UTH has previously worked closely with some other EU projects at UTH facilities, namely CasH, Organic PLUS, FoodOASIS, Algae4Food&Aqua, and Precimed for the past few years. These projects were also presented during the clustering workshop in Thessaloniki, mentioned above. During these project collaborations, UTH shared and exchanged knowledge and expertise with project partners. Precisely this was done in the fields of precise irrigation and fertilisation management techniques, recirculation of water and nutrients in hydroponics, the utilisation of liquid waste for the cultivation of microalgae for the production of biodiesel and fish feed, as well as aquaponic practices and models for nutrient management.

UTH greenhouses and laboratory facilities were used for most projects trials and demonstrations. The deadline for the previously mentioned running projects is mostly in 2022, with the exception of the Precimed project which will be finalised in 2023.

Table 14: CDTA PestNu relevant and running projects

Project name	Project scope and link to PestNu	Contact Person in PestNu
<u>AGREMSO3IL - LIFE</u>	Agrochemical decontamination of farming soils combining in-situ solarisation and ozonisation.	CENTRO DE DEMOSTRACIÓN Y TRANSFERENCIA AGRARIA EL MIRADOR Pedro Mínguez Alcaraz cdtaelmirador@yahoo.es

Table 15: Tilmur PestNu relevant and running projects

Project name	Project scope and link to PestNu	Contact Person in PestNu
B-BLUE	10 partners from 8 Mediterranean countries, and more than 300 stakeholders, working together, during 22 months, to create the community of actors on Blue Biotechnology in the Mediterranean. The goal is to increase the capacity for innovation and improve coordination in the Biotechnology sector Blue and the Blue Economy. For this, 5 territorial pilot actions will be carried out (Spain, France, Slovenia, Italy and Greece), through parM caNvas Mpo "Living Labs" actions, in order to create 5 territorial communities of actors called BBHubs (for its acronym in English, Blue Biotechnology Hubs) to seek joint solutions that can boost the sector of the Blue Biotechnology in the Mediterranean	Mariano Vidal, Tilmur, mariano@tilamur.com
EASYTRAIN (2021/2025) Horizont 2020. Marie.Sklodowska-Curie	EASYTRAIN project tackles this challenge by developing innovative aquaculture systems based on the most modern techniques in the field of aquaponics using organic aquaculture feed formulas, which substitutes fishmeal by spirulina and quinoa as filler. EASYTRAIN combines the expertise of 2 academic and 4 industrial partners from Spain, Portugal, the Netherlands and Italy, with complementary expertise in the field of plant and fish farming, feed production, aquaculture	Mariano Vidal, Tilmur, mariano@tilamur.com

Project name	Project scope and link to PestNu	Contact Person in PestNu
	engineering and microalgae biotechnology. The outcome of EASYTRAIN will be 6 researchers with experimental and transferable skills ready to cope with the future challenges of the prospect aquaculture sector.	

Table 16: Agroinsider PestNu relevant and running projects

Project name	Project scope and link to PestNu	Contact Person in PestNu
LANDMARC H2020 (2020-2024)	Considering the land-climate-development interface, LANDMARC aims to assess the impacts of Land-use based Mitigation Technologies (LMTs) as net sinks for greenhouse gas (GHGs) by applying unique mixed-methods approach.	Patrícia Lourenço (patricia@agroinsider.com +351 910 95 22 51)
FORESTECH CO2 Junta de Extremadura, Spain (2021-2022)	Research of new technologies for the evaluation of the decarbonization potential of forests. Pilot line in pine forest, oak groves, bushes and Mediterranean pastures of Extremadura	AgroInsider (sub-contracted) Patrícia Lourenço (patricia@agroinsider.com +351 910 95 22 51)
AgroSatAdapt LaCaixa (2021-2023)	AgroSatAdapt will make use of models that operate multiple remote nature data (satellite and others), varied ecological, climatic, water and socioeconomic data for landscape and integrated characterization of regions dominated by agroforestry activities.	AgroInsider (partner) Vanessa Duarte (vanessa.duarte@agroinsider.com) Patrícia Lourenço (patricia@agroinsider.com +351 910 95 22 51)

Table 17: TRI PestNu relevant and running projects

Project name	Project scope and link to PestNu	Contact Person in PestNu
TechEthos	How can we prioritise ethics and societal values in the design, development and deployment of new and emerging technologies, particularly those with high socio-economic impact? TechEthos addresses the growing ethical challenges and expectations regarding new technologies by: Scanning the technology horizon to identify 3-4 emerging technologies carefully selected by our team for their potential socio-economic impact on our societies and challenging ethical issues; Analysing each of these technologies in terms of ethics, policy and legal implications and societal awareness and acceptance with academia, industry and the general public alike; Enhancing ethical and legal frameworks and operational guidelines to support the research community in integrating ethics concerns and societal values into research protocols and technology design	Irma Poder irma.poder@trilateralresearch.com
RealDeal -	In a large co-creation exercise, REAL_DEAL	Irma Poder

Project name	Project scope and link to PestNu	Contact Person in PestNu
Reshaping European Advances towards green Leadership Through Deliberative Approaches and Learning	will develop, test and validate innovative tools and formats to propel deliberative democracy to the next level. It will test its innovations at citizens assemblies for the transition in at least 13 countries. We will scrutinise pan-European formats ranging from digital deliberation through our online platform www.CitizensGreenDeal.eu to in-person processes such as an Assembly for a Gender-Just Green Deal and a pan-European Youth Climate Assembly. REAL_DEAL co-creates a comprehensive protocol for meaningful citizens? participation and deliberation to work towards the objectives of the EGD. It will validate recommendations on how to design such processes and how they can be applied by European institutions, Member States and civil society alike. Gender equality will be embedded into the project?s DNA. It pays specific attention to the leave-no-one-behind principle, fostering the engagement of disenfranchised groups that are disproportionately burdened by environmental damage. REAL_DEAL will develop a new model of environmental citizenship across Europe.	irma.poder@trilateralresearch.com
Enhancing Standardisation strategies to integrate innovative technologies for Safety and Security in existing water networks - https://aqua3s.eu/	Access to safe water is essential for human health and wellbeing. The management of drinking-water distribution systems is vital to prevent failures that could result in disease outbreaks and hazardous events. The EU-funded aqua3S project aims to standardise existing sensor technologies complemented by state-of-the-art detection mechanisms for drinking water networks. It will combine complex sensors with videos from unmanned aerial vehicles (UAVs), satellite images and social media observations from citizens reporting low-quality water. This will help create social awareness and promote interactive knowledge transfer. The proposed technical solution is an integrated platform designed to offer a standardised detection system.	Irma Poder irma.poder@trilateralresearch.com

Table 18: Strata PestNu relevant and running projects

Project name	Project scope and link to PestNu	Contact Person in PestNu
<u>Dig_IT H2020 SC5 (2020-2023)</u>	A Human-centred Internet of Things Platform collects data from sensors at 3 levels: i) human, ii) assets, iii) environment and incorporates both market real time and historical data.	Maria Zafiropoulou <mz@stratagem.com.cy>
<u>NEFERTITI (H22020)</u>	Innovative photocatalysts integrated in flow photoreactor systems for direct CO2 and H2O conversion into solar fuels.	Maria Zafiropoulou <mz@stratagem.com.cy>

Project name	Project scope and link to PestNu	Contact Person in PestNu
<u>BLUE FASMA</u> <u>(Interreg MED)</u>	Empowering innovation capacity of SMEs, Maritime Clusters and Network in MED islands and Coastal Areas, to support blue circular economy growth in fishing and aquaculture	Maria Zafiropoulou mz@stratagem.com.cy

Table 19: STAM PestNu relevant and running projects

Project name	Project scope and link to PestNu	Contact Person in PestNu
AGRICORE H2020-RUR-2018-2 (2019-2023)	Agent-based support tool for the development of agriculture policies; Multi-actor approach - computational modelling to simulate farmers' actions as autonomous or collective entities, local to global scales; AI, Big Data, cloud services.	STAM

Table 20: TELLAB PestNu relevant and running projects

Project name	Project scope and link to PestNu	Contact Person in PestNu
Australian Research Council Linkage project LP200200394	Develop robust, sensitive and reliable methods for simultaneous detection of anions and cations post separation and investigate use of novel materials and analytical column configurations for brackish and freshwater assessment.	TELLAB Dr. Eoin Murray <emurray@tellab.ie> Phone. no. 353599149072

Table 21: SEVT PestNu relevant and running projects

Project name	Project scope and link to PestNu	Contact Person in PestNu
CIRCforBIO / LIFE (2019-2023)	A circular economy system for multi-source biomass conversion to added value products.(https://circforbio.eu/)	PROJECT COORDINATOR: NTUA (www.uest.gr , www.ntua.gr), D.MALAMIS, info@circforbio.eu (SEVT)
NEWFEED / PRIMA (2021-2025)	Turn Food Industry By-products into secondary Feedstuffs via Circular-Economy Schemes (https://newfeed-prima.eu/)	PROJECT COORDINATOR: AZTI (https://www.azti.es/en/), DAVID SAN MARTIN, info@newfeed-prima.eu (SEVT)
FIELDS / ERASMUS+ (2020-2024)	Addressing the current and Future skill needs for sustainability, digitalization, and the bio-Economy in Agriculture: European skills agenda and Strategy (https://www.erasmus-fields.eu/home/)	PROJECT COORDINATOR: Università degli Studi di Torino, REMIGIO BERRUTO, remigio.berruto@unito.it , (SEVT)
AI Skills4Circular Transition / ERASMUS+ (2021-2024)	Develop Artificial Intelligence knowledge and skills to support the Circular Transition of agri-food sector	PROJECT COORDINATOR: ASSOCIATION NATIONALE DES INDUSTRIES ALIMENTAIRES (ANIA), FRANCOISE GORGA, fgorga@ania.net , (SEVT)

Table 22: GLOBAL PestNu relevant and running projects

Project name	Project scope and link to PestNu	Contact Person in PestNu
Ökotox FFG (2020-2023)	Based on the ecotoxicological evaluation in Austrian ornamental plant and herb cultivation, alternative crop protection concepts will be developed and new technologies for crop protection will be tested to reduce the use of toxic pesticides. An ecotox pesticide catalogue will be created, which can be used as a basis for future quality guidelines and standards.	GLOBAL 2000 dominik.linhart@global2000.at

Table 23: IKH PestNu relevant and running projects

Project name	Project scope and link to PestNu	Contact Person in PestNu
<u>Greensprayer (Agrobofood) - H2020</u>	GreenSprayer is a robotic solution for preventive 3D spot spraying, based on an autonomous ground robotic platform and an Ai-powered computer vision system attached to an open hardware co-bot arm. The purpose of GreenSprayer is to minimise the use of pesticides and maximise resource efficiency in agricultural production. Greensprayer focuses on autonomous AGV (not running on rails) for Tuta Absoluta detection and spraying. There is strong relation between Greensprayer and PestNu in a) robotics, b) detection, c) precision spraying	Michalis Logothetis (mlogothetis@iknowhow.com) iKnowHow
Oenolytics "Precision Viticulture 2.0: Democratizing precision viticulture in the EU by providing beyond the state-of-the-art tools and techniques to small professional vinegrowers" (EPAnEK 2014-2020)	Oenolytics is a holistic Precision Viticulture solution including both proximal and UAV-based hyperspectral mapping that will retail at an order of magnitude lower price than its closest competitor, specifically targeting the small EU vineyards. Oenolytics is dealing with a multispectral camera for recognizing how healthy are vineyards. The MS camera knowhow can be transferred to PestNu	Nikos Frangakis (nfrangakis@iknowhow.com) iKnowHow

Table 24: Neoalgae PestNu relevant and running projects

Project name	Project scope and link to PestNu	Contact Person in PestNu
<u>ALGAR-BBE LIFE (2019-2023)</u>	Microalgae with aromatic plants as biostimulants and biofertilizers with biocide effect; new, sustainable & economical extraction processes; enzymatic biocatalytic processes	NEOALGAE María Alvarez <malvarez@neoalgae.es> Telefono: +34 984041266

Table 25: Fertinagro PestNu relevant and running projects

Project name	Project scope and link to PestNu	Contact Person in PestNu
<u>SEA2LAND</u> <u>H2020-EU.3.2</u> <u>(2021-2024)</u>	Producing advanced bio-based fertilisers from fisheries wastes, based on circular economy model. (H2020-RUR-2020-1)	Herminia De La Varga <herminia.delavarga@tervalis.com>
<u>BIOSCHAMP H2020-</u> <u>EU.3.2.1.1</u> <u>(2020-2024)</u>	Producing advanced bio-based fertilisers from fisheries wastes, based on circular economy model. (H2020-RUR-2020-1)	Herminia De La Varga <herminia.delavarga@tervalis.com>
<u>FERTIMANURE</u> <u>H2020-EU.3.2</u> <u>(2020-2023)</u>	Innovative nutrient recovery from secondary sources – Production of high-added value FERTIlisers from animal MANURE	Herminia De La Varga <herminia.delavarga@tervalis.com>
<u>EMBRACED</u> <u>H2020-EU3.2.6</u> <u>(2017-2023)</u>	Establishing a Multi-purpose Biorefinery for the Recycling of the organic content of AHP waste in a Circular Economy Domain	Herminia De La Varga <herminia.delavarga@tervalis.com>

Table 26: SID PestNu relevant and running projects

Project name	Project scope and link to PestNu	Contact Person in PestNu
<u>TERMINET</u> <u>H2020 ICT-56-2020</u> <u>(2020 – 2023)</u>	Develop a novel Next Generation Smart Interconnected IoT-driven decentralised and distributed blockchain framework to simplify the connection of a vast number of different devices through a flexible SDN-enabled middleware layer for smart farming etc	SID
<u>SMARTROOT</u> <u>Erasmus KA2</u> <u>(KA203) (2020 -</u> <u>2023)</u>	The aim of the SmartROOT (Smart faRming innOvatiOn Training) project is to prepare a new Joint Master Degree program in the field of Mixed Farming Systems (MFS) by introducing user-friendly ICT tools to improve the resilience of agriculture to climate change. The objectives include the cultivation of a network between Europe's Higher Education Institutes (HEIs) and the agricultural sector and the familiarisation of farmers and stakeholders with ICT tools that can greatly enhance their business.	SID

Table 27: Agrovast PestNu relevant and running projects

Project name	Project scope and link to PestNu	Contact Person in PestNu
<u>SmartAgriHubs</u> <u>H2020 (2018-2022)</u>	Connecting the dots to unleash the innovation potential for digital transformation of the European agri-food sector (H2020-RUR-2018-1)	AGROVAST
<u>Site specific weed control - EIP-Agri</u> <u>(2018-2022)</u>	The aim of the project is to develop tools for site specific application of herbicides in cereals using images captured by UAVs.	AGROVAST
<u>Oper8</u>	Promotion of alternative weed control measures to ensure reduction in herbicide use.	AGROVAST

7. Conclusion and next steps

In the first 18 months PestNu has been in close contact with projects from the same Horizon call: *Testing and demonstrating systemic innovations in support of the Farm-to-Fork Strategy (LC-GD-6-1-2020)* and participated in many activities of the GD-SO. The specific tasks of the Green Deal Support Office (GD-SO) Action plan have been worked on together with the other involved project representatives. PestNu joined common events, kickoff-meetings and efforts were made to establish bilateral collaboration with same call projects and other similar and complementary projects to PestNu, in particular the ones where PestNu partners or IAB members are participating in or have connections to.


Two larger clustering workshops organised by PestNu have taken place with the aim to enhance exchange between thematically relevant projects and create a promising base for further activities. A clustering event organised by PestNu took place in Thessaloniki, Greece, where 27 different projects were presented and representatives of those projects took part in one of the three round table discussions. This event successfully enabled a basis for collaboration with other thematically relevant projects. Building on this first clustering event, another event with 8 relevant projects in the area of IPM and biopesticides took place in February 2023 with the aim to elaborate common drivers and barriers, as well as defining further collaborative activities to enhance IPM and biopesticide adoption.

Many pathways for future collaboration were found, covering some of the main areas in PestNu: DST, AOP, demonstration sites, joint policy recommendations and joint communication and dissemination activities. So far many clustering possibilities have been discussed and PestNu will further invite and participate in other projects events as well as commonly participate in public ones. Actions have been specified with some related projects, such as participation in each other's events, training activities, and working on policy recommendations. The next project period will be used for carrying out activities that were agreed on, as well as intensifying collaboration and defining common drivers and barriers and policy recommendations with other projects. There is a big potential to use PestNu's rich network with all the already identified projects, as well as consortium partners and LOI members connections with other relevant projects. In the coming project term, PestNu will focus on collaboration on demonstration sites in order to widen the individual project outreach and demonstrate its innovations under diverse conditions.


In the next term Global 2000 will assist consortium partners in establishing useful synergies and collaboration activities with projects they are already linked with. Global 2000 as Task 7.1 leader, will further work on elaborating and acting upon common drivers and barriers together with the other projects in the area of IPM and biopesticides, which can further be translated into common policy recommendations. Further effort within the Action plan of the Food WG will be put in. There will be an emphasis on planning follow up clustering workshops, as well as bilateral collaboration with projects in terms of training activities and collaboration on demonstration sites, together with related PestNu project partners.

Appendices

Appendix 1: Collaboration contract with AgriHub Project



NETWORKING QUESTIONNAIRE


Project: H2020 LC-GD-6-1-2020 (subtopic C), GA no. 101037128	Activity Clustering Activities	Date 15/02/2023	
Organisation/Company: Agriculture Directorate – Ministry for Agriculture, Fisheries and Animal rights, Malta			
Contact person:	Stephen Joseph <u>Sidirop</u>	Phone No.: <u>22924112</u>	Email: <u>sidirop@agriculture.gov.mt</u>
Project name: <u>AgriHub Project</u>			
Project web link: <u>https://agriculture.gov.mt/en/agricultural_directorate/Pages/agrihub.asp</u>			

1- Do you think that the H2020 Green Deal PestNu project shares any aspect with the project/activity being carried out by your organisation?
 Yes

2- If so, indicate the aspects that are common to both projects:
 It is related to the same topic: Testing and demonstrating systemic innovations in support of the Farm-to-Fork Strategy
 It is related to digital and space based technologies
 It is related to agro-ecological practices/ organic farming
 It aims for chemical pesticide reduction and/or substitution with biopesticides
 Other: Integrated Pest Management and Precision Agriculture

3- Which aspect(s) do you find most interesting for establishing an active contact between projects in order to create and develop a partnership?
 General outcome of the project and the proposed solutions
 Methodological guides (extraction, environmental risk assessment, formulation)
 Environmental awareness raising activities (demonstration activities)
 Visits to the experimental fields

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Other: Exploring the real-world applications of PestNu R&I within the local small hold/ small scale farming scenario.

4- What future actions do you think the partners of both projects/companies could implement?
 Participation in (each other's) workshops/ events
 Organisation of common workshops/ round tables on relevant thematic areas
 Publication of scientific articles
 Collaboration on projects demonstration sites
 Knowledge exchange/ technical assistance
 Extended training courses
 Other: Future Consortia

5- Only for projects: Do you authorise us to publish your project logo and web link on the PestNu website and social media?
 Yes

7- If so, please insert the project logo:




AgriHub
Agriculture Research & Innovation Hub


Data protection clause:
In accordance with the provisions of the Data Protection Act, we inform you that the personal data you have provided us with in connection with the H2020 Green Deal PestNu project and our informative work in relation to the activities of the aforementioned project, have been included in an automated file owned by the consortium of the aforementioned project for the purpose of sending information to users requesting information and to participants in the project's activities. The coordinator of the project and its partners guarantee the exercise of the rights of access, rectification, cancellation, and opposition in the terms set out in current legislation, which may be exercised by means of a formal communication to the e-mail address info@pestnu.eu, where you may also withdraw your consent to receiving information on the activities and other services of the H2020 Green Deal PestNu project.

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Appendix 2: Collaboration contract with AgROBOfood project



NETWORKING QUESTIONNAIRE


Project: H2020 LC-GD-6-1-2020 (subtopic C), GA no. 101037128	Activity Clustering Activities	Date 20.01.23	
Organisation/Company: DRAVIS			
Contact person:	Dimitra Perperidou	Phone No.:	Email: <u>dperperidou@drazis.gr</u>
Project name: <u>agROBOfood</u>			
Project web link: <u>https://agrobofood.eu/</u>			

1- Do you think that the H2020 Green Deal PestNu project shares any aspect with the project/activity being carried out by your organisation?
 Yes No

2- If so, indicate the aspects that are common to both projects:
 It is a H2020 project
 It is related to the same topic: Testing and demonstrating systemic innovations in support of the Farm-to-Fork Strategy
 It is related to digital and space based technologies
 It is related to agro-ecological practices/ organic farming
 It is based on circular economy
 It aims for chemical pesticide reduction and/or substitution with biopesticides
 It aims for reducing loss of nutrients and fertiliser use
 Other: _____

3- Which aspect(s) do you find most interesting for establishing an active contact between projects in order to create and develop a partnership?
 General outcome of the project and the proposed solutions
 Methodological guides (extraction, environmental risk assessment, formulation)
 Field test validation
 Environmental awareness raising activities (demonstration activities)
 Registration protocols for basic substances
 Visits to the experimental fields
 Sharing of results and comparing the solutions proposed in your project
 Other: _____


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4- What future actions do you think the partners of both projects/companies could implement?
 Participation in (each other's) workshops/ events
 Organisation of common workshops/ round tables on relevant thematic areas
 Joint policy recommendations
 Joint social media activities for cross dissemination
 Joint press releases
 Publication of scientific articles
 Collaboration on projects demonstration sites
 Registration of activities to compare products/ services
 Knowledge exchange/ technical assistance
 Extended training courses
 Other: _____

5- Only for projects: Do you authorise us to publish your project logo and web link on the PestNu website and social media?
 Yes No

6- If so, please insert the project logo:




agROBO
food

7- Stamp and signature of authorised person: Dimitra Perperidou


Data protection clause:
In accordance with the provisions of the Data Protection Act, we inform you that the personal data you have provided us with in connection with the H2020 Green Deal PestNu project and our informative work in relation to the activities of the aforementioned project, have been included in an automated file owned by the consortium of the aforementioned project for the purpose of sending information to users requesting information and to participants in the project's activities. The coordinator of the project and its partners guarantee the exercise of the rights of access, rectification, cancellation, and opposition in the terms set out in current legislation, which may be exercised by means of a formal communication to the e-mail address info@pestnu.eu, where you may also withdraw your consent to receiving information on the activities and other services of the H2020 Green Deal PestNu project.

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Appendix 3: Collaboration contract with AgroBRIDGES project



NETWORKING QUESTIONNAIRE

Project: H2020 LC-GD-6-1-2020 (subtopic C), GA no. 101037128	Activity: Clustering Activities	Date: 31/2/2023	
Organisation/Company: O-PLAN International			
Contact person:	Eirini Efthymiadou	Phone No.:	+30 2310 257277, +30 2310 411 191
		Email:	efthymiadou@oplan-intl.gr
Project name: agroBRIDGES			
Project web link: https://www.agrobridges.eu/			

1- Do you think that the H2020 Green Deal PestNu project shares any aspect with the project/activity being carried out by your organisation?
 Yes No partially

2- If so, indicate the aspects that are common to both projects:
 It is a H2020 project
 It is related to the same topic: Testing and demonstrating systemic innovations in support of the Farm-to-Fork Strategy
 It is related to digital and space based technologies
 It is related to agroecological practices/ organic farming
 It is based on circular economy
 It aims for chemical pesticide reduction and/or substitution with biopesticides
 It aims for reducing loss of nutrients and fertiliser use
 Other...it is related to new and innovative models of food supply chains...


3- Which aspect(s) do you find most interesting for establishing an active contact between projects in order to create and develop a partnership?
 Exchange of views of the project and the proposed solutions
 Methodological guides (extraction, environmental risk assessment, formulation)
 Field test validations
 Environmental awareness raising activities (demonstration activities)
 Registration protocols for basic substances
 Visits to the experimental fields
 Sharing of results and comparing the solutions proposed in your project

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Other...promoting each other's events to Project stakeholder's networks for broader reach out.

4- What future actions do you think the partners of both projects/companies could implement?
 Participation in (e-ach other's) workshops/ events
 Organisation of common workshops/ round tables on relevant thematic areas
 Joint policy recommendations
 Joint social media activities for cross dissemination (this depends on how our dissemination & communication partner acts, as coordinator we don't have access to create joint social media activities)
 Joint press releases
 Publication of scientific articles
 Collaboration on projects demonstration sites
 Benchmarking or actions to compare products/ services
 Knowledge exchange/ technical assistance
 Extended training courses
 Other...

5- Only for projects: Do you authorise us to publish your project logo and web link on the PestNu website and social media?
 Yes No

6- If so, please insert the project logo:


7. Stamp and signature of authorized person.

Data protection clause:
 In accordance with the provisions of the Data Protection Act, we inform you that the personal data you have provided us with in connection with the H2020 Green Deal PestNu project and our informative work in relation to the activities of the aforementioned project, have been included in an automated file owned by the consortium of the aforementioned project for the purpose of sending information to users requesting information and to participants in the project's activities. The coordinator of the project and its partners guarantee the exercise of the rights of access, rectification, cancellation, and opposition in the terms set out in current legislation, which may be exercised by means of a formal communication to the e-mail address info@pestnu.eu, where you may also withdraw your consent to receiving information on the activities and other services of the H2020 Green Deal PestNu project.

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Appendix 4: Collaboration contract with BACCHUS project

Project		Activity	Date
H2020 LC-GD-6-1-2020 (subtopic C), GA no. 101037128		Clustering Activities	
Organisation/Company:		Aristotle University of Thessaloniki	
Contact person:	Fotis Dimeas	Phone No.:	+30 2310 996377
		Email:	fdimeas@cece.auth.gr
Project name:	BACCHUS		
Project web link:	bacchusproject.eu		

1- Do you think that the H2020 Green Deal PestNu project shares any aspect with the project/activity being carried out by your organisation?
 Yes No

2- If so, indicate the aspects that are common to both projects:

- It is a H2020 project
- It is related to the same topic: Testing and demonstrating systemic innovations in support of the Farm-to-Fork Strategy
- It is related to digital and space based technologies
- It is related to agro-ecological practices/ organic farming
- It is based on circular economy
- It aims for chemical pesticide reduction and/or substitution with biopesticides
- It aims for reducing loss of nutrients and fertiliser use
- Other: _____

3- Which aspect(s) do you find most interesting for establishing an active contact between projects in order to create and develop a partnership?

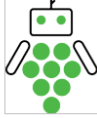
- General outcome of the project and the proposed solutions
- Methodological guides (extraction, environmental risk assessment, formulation)
- Field test validations
- Environmental awareness raising activities (demonstration activities)
- Registration protocols for basic substances
- Visits to the experimental fields
- Sharing of results and comparing the solutions proposed in your project
- Other: _____

4- What future actions do you think the partners of both projects/companies could implement?

- Participation in (each other's) workshops/ events
- Organisation of common workshops/ round tables on relevant thematic areas
- Joint policy recommendations
- Joint social media activities for cross dissemination
- Joint press releases
- Publication of scientific articles
- Collaboration on projects demonstration sites
- Benchmarking or actions to compare products/ services
- Knowledge exchange/ technical assistance
- Extended training courses
- Other: _____

5- Only for projects: Do you authorise us to publish your project logo and web link on the PestNu website and social media?
 Yes No

6- If so, please insert the project logo:



7. Stamp and signature of authorised person:
 Fotis Dimeas

Data protection clause:
 In accordance with the provisions of the Data Protection Act, we inform you that the personal data you have provided us with in connection with the H2020 Green Deal PestNu project and our informative work in relation to the activities of the aforementioned project, have been included in an automated file owned by the consortium of the aforementioned project for the purpose of sending information to users requesting information and to participants in the project's activities. The coordinator of the project and its partners guarantee the exercise of the rights of access, rectification, cancellation, and opposition in the terms set out in current legislation, which may be exercised by means of a formal communication to the e-mail address info@pestnu.eu, where you may also withdraw your consent to receiving information on the activities and other services of the H2020 Green Deal PestNu project.

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Appendix 5: Collaboration contract with Biovexo project

Project		Activity	Date
H2020 LC-GD-6-1-2020 (subtopic C), GA no. 101037128		Clustering Activities	24.01.2023.
Organisation/Company:		RTDS Group	
Contact person:	Berina Porca, D&C Manager	Phone No.:	068184197029
		Email:	porca@rtds-group.com
Project name:	BIOVEXO Project		
Project web link:	https://biovexo.eu/		

1- Do you think that the H2020 Green Deal PestNu project shares any aspect with the project/activity being carried out by your organisation?
 Yes No

2- If so, indicate the aspects that are common to both projects:

- It is a H2020 project
- It is related to the same topic: Testing and demonstrating systemic innovations in support of the Farm-to-Fork Strategy
- It is related to digital and space based technologies
- It is related to agro-ecological practices/ organic farming
- It is based on circular economy
- It aims for chemical pesticide reduction and/or substitution with biopesticides
- It aims for reducing loss of nutrients and fertiliser use
- Other: _____

3- Which aspect(s) do you find most interesting for establishing an active contact between projects in order to create and develop a partnership?

- General outcome of the project and the proposed solutions
- Methodological guides (extraction, environmental risk assessment, formulation)
- Field test validations
- Environmental awareness raising activities (demonstration activities)
- Registration protocols for basic substances
- Visits to the experimental fields
- Sharing of results and comparing the solutions proposed in your project
- Other: _____

4- What future actions do you think the partners of both projects/companies could implement?

- Participation in (each other's) workshops/ events
- Organisation of common workshops/ round tables on relevant thematic areas
- Joint policy recommendations
- Joint social media activities for cross dissemination
- Joint press releases
- Publication of scientific articles
- Collaboration on projects demonstration sites
- Benchmarking or actions to compare products/ services
- Knowledge exchange/ technical assistance
- Extended training courses
- Other: _____

5- Only for projects: Do you authorise us to publish your project logo and web link on the PestNu website and social media?
 Yes No

6- If so, please insert the project logo:



7. Stamp and signature of authorised person:
 Berina Porca

Data protection clause:
 In accordance with the provisions of the Data Protection Act, we inform you that the personal data you have provided us with in connection with the H2020 Green Deal PestNu project and our informative work in relation to the activities of the aforementioned project, have been included in an automated file owned by the consortium of the aforementioned project for the purpose of sending information to users requesting information and to participants in the project's activities. The coordinator of the project and its partners guarantee the exercise of the rights of access, rectification, cancellation, and opposition in the terms set out in current legislation, which may be exercised by means of a formal communication to the e-mail address info@pestnu.eu, where you may also withdraw your consent to receiving information on the activities and other services of the H2020 Green Deal PestNu project.

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Appendix 6: Collaboration contract with Dig_IT project

NETWORKING QUESTIONNAIRE		
Project: H2020 LC-GD-6-1-2020 (subtopic C), GA no. 101037128	Activity Clustering Activities	Date
		
Organisation/Company:	Instituto Tecnológico de Aragón (ITA-INNOVA)	
Contact person:	María García Camprubi	Phone No.: Email: mmgarcia@itainnova.es
Project name:	Dig_IT	
Project web link:	https://digit-h2020.eu/	


1- Do you think that the H2020 Green Deal PestNu project shares any aspect with the project/activity being carried out by your organisation?
 Yes No

2- If so, indicate the aspects that are common to both projects:
 It is a H2020 project
 It is related to the same topic: Testing and demonstrating systemic innovations in support of the Farm-to-Fork Strategy
 It is related to digital and space based technologies
 It is related to agro-ecological practices/ organic farming
 It is based on circular economy
 It aims for chemical pesticide reduction and/or substitution with biopesticides
 It aims for reducing loss of nutrients and fertiliser use
 Other: Digitalization of primary sector. Environmental risk assessment, natural resources optimization.

3- Which aspect(s) do you find most interesting for establishing an active contact between projects in order to create and develop a partnership?
 General outcome of the project and the proposed solutions
 Methodological guides (extraction, environmental risk assessment, formulation)
 Field test validations
 Environmental awareness raising activities (demonstration activities)
 Registration protocols for basic substances
 Visits to the experimental fields
 Sharing of results and comparing the solutions proposed in your project
 Other:

4- What future actions do you think the partners of both projects/companies could implement?
 Participation in (each other's) workshops/ events
 Organisation of common workshops/ round tables on relevant thematic areas
 Joint policy recommendations
 Joint social media activities for cross dissemination
 Joint press releases
 Publication of scientific articles
 Collaboration on projects demonstration sites
 Benchmarking or actions to compare products/ services
 Knowledge exchange/ technical assistance
 Extended training courses
 Other: The field in common is digitalization of primary sector


5- Only for projects: Do you authorise us to publish your project logo and web link on the PestNu website and social media?
 Yes No

6- If so, please insert the project logo:


7. Stamp and signature of authorised person:
 Firmado por GARCIA CAMPRUBI MARIA MONTSERRAT - ***6894** el día 20/02/2023 con un certificado emitido por AC FNMT. Libanarte.
 The Project Coordinator

Data protection clause:
 In accordance with the provisions of the Data Protection Act, we inform you that the personal data you have provided us with in connection with the H2020 Green Deal PestNu project and our informative work in relation to the activities of the aforementioned project, have been included in an automated file owned by the consortium of the aforementioned project for the purpose of sending information to users requesting information and to participants in the project's activities. The coordinator of the project and its partners guarantee the exercise of the rights of access, rectification, cancellation, and opposition in the terms set out in current legislation, which may be exercised by means of a formal communication to the e-mail address info@pestnu.eu, where you may also withdraw your consent to receiving information on the activities and other services of the H2020 Green Deal PestNu project.

Appendix 7: Collaboration contract with GreenSprayer project

NETWORKING QUESTIONNAIRE		
Project: H2020 LC-GD-6-1-2020 (subtopic C), GA no. 101037128	Activity Clustering Activities	Date
		
Organisation/Company:	Ikonov SA	
Contact person:	Anele Pizarro	Phone No.: 0030-2106041425 Email: apizarro@ikonov.com
Project name:	GreenSprayer	
Project web link:	-	

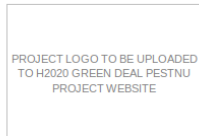
1- Do you think that the H2020 Green Deal PestNu project shares any aspect with the project/activity being carried out by your organisation?
 Yes No

2- If so, indicate the aspects that are common to both projects:
 It is a H2020 project
 It is related to digital and space based technologies
 It is related to agro-ecological practices/ organic farming
 It is based on circular economy
 It aims for chemical pesticide reduction and/or substitution with biopesticides
 It aims for reducing loss of nutrients and fertiliser use
 Other: Detection of pests and soil sensors using autonomous robots and AI techniques

3- Which aspect(s) do you find most interesting for establishing an active contact between projects in order to create and develop a partnership?
 General outcome of the project and the proposed solutions
 Methodological guides (extraction, environmental risk assessment, formulation)
 Field test validations
 Environmental awareness raising activities (demonstration activities)
 Registration protocols for basic substances
 Visits to the experimental fields
 Sharing of results and comparing the solutions proposed in your project
 Other:

4- What future actions do you think the partners of both projects/companies could implement?
 Participation in (each other's) workshops/ events
 Joint policy recommendations
 Joint social media activities for cross dissemination
 Joint press releases
 Publication of scientific articles
 Collaboration on projects demonstration sites
 Benchmarking or actions to compare products/ services
 Knowledge exchange/ technical assistance
 Extended training courses
 Other: training courses


5- Only for projects: Do you authorise us to publish your project logo and web link on the PestNu website and social media?
 Yes No

6- If so, please insert the project logo:


7. Stamp and signature of authorised person:

Data protection clause:
 In accordance with the provisions of the Data Protection Act, we inform you that the personal data you have provided us with in connection with the H2020 Green Deal PestNu project and our informative work in relation to the activities of the aforementioned project, have been included in an automated file owned by the consortium of the aforementioned project for the purpose of sending information to users requesting information and to participants in the project's activities. The coordinator of the project and its partners guarantee the exercise of the rights of access, rectification, cancellation, and opposition in the terms set out in current legislation, which may be exercised by means of a formal communication to the e-mail address info@pestnu.eu, where you may also withdraw your consent to receiving information on the activities and other services of the H2020 Green Deal PestNu project.

Appendix 8: Collaboration contract with IPM Decisions project

NETWORKING QUESTIONNAIRE		
Project: H2020 LC-GD-6-1-2020 (subtopic C), GA no. 101037128	Activity Clustering Activities	Date 8-2-2023
		
Organisation/Company:	Delphy	
Contact person:	Harm Brinks	Phone No.: +31620423895
	Email:	h.brinks@delphy.nl
Project name:	IPM Decisions	
Project web link:	ipmdecisions.net and	

1- Do you think that the H2020 Green Deal PestNu project shares any aspect with the project/activity being carried out by your organisation?
 Yes No

2- If so, indicate the aspects that are common to both projects:
 It is a H2020 project
 It is related to the same topic: Testing and demonstrating systemic innovations in support of the Farm-to-Fork Strategy
 It is related to digital and space based technologies
 It is related to agro-ecological practices/ organic farming
 It is based on circular economy
 It aims for chemical pesticide reduction and/or substitution with biopesticides
 It aims for reducing loss of nutrients and fertiliser use
 Other: _____

3- Which aspect(s) do you find most interesting for establishing an active contact between projects in order to create and develop a partnership?
 General outcome of the project and the proposed solutions
 Methodological guides (extraction, environmental risk assessment, formulation)
 Field test validations
 Environmental awareness raising activities (demonstration activities)
 Registration protocols for basic substances
 Visits to the experimental fields
 Sharing of results and comparing the solutions proposed in your project
 Other: _____

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4- What future actions do you think the partners of both projects/companies could implement?
 Participation in (each other's) workshops/ events
 Organisation of common workshops/ round tables on relevant thematic areas
 Joint policy recommendations
 Joint social media activities for cross dissemination
 Joint press releases
 Publication of scientific articles
 Collaboration on projects demonstration sites
 Benchmarking or actions to compare products/ services
 Knowledge exchange/ technical assistance
 Extended training courses
 Other: _____

5- Only for projects: Do you authorise us to publish your project logo and web link on the PestNu website and social media?
 Yes No

6- If so, please insert the project logo:




7. Stamp and signature of authorised person:



Data protection clause:
 In accordance with the provisions of the Data Protection Act, we inform you that the personal data you have provided us with in connection with the H2020 Green Deal PestNu project and our informative work in relation to the activities of the aforementioned project, have been included in an automated file owned by the consortium of the aforementioned project for the purpose of sending information to users requesting information and to participants in the project's activities. The coordinator of the project and its partners guarantee the exercise of the rights of access, rectification, cancellation, and opposition in the terms set out in current legislation, which may be exercised by means of a formal communication to the e-mail address info@pestnu.eu, where you may also withdraw your consent to receiving information on the activities and other services of the H2020 Green Deal PestNu project.

Appendix 9: Collaboration contract with NeoGiant project

NETWORKING QUESTIONNAIRE		
Project: H2020 LC-GD-6-1-2020 (subtopic C), GA no. 101037128	Activity Clustering Activities	Date 07/05/2023
		
Organisation/Company:	USC (University of Santiago de Compostela)	
Contact person:	Marta Lores Aguilé (Coord.) ; Lidia Serrano (CSD)	Phone No.: (+34) 686 913 781 (Lidia) Email: marta.lores@usc.es lidia.serrano@comcast.net
Project name:	NeoGIANT	
Project web link:	https://www.neogiant.eu/	

1- Do you think that the H2020 Green Deal PestNu project shares any aspect with the project/activity being carried out by your organisation?
 Yes No

2- If so, indicate the aspects that are common to both projects:
 It is a H2020 project
 It is related to the same topic: Testing and demonstrating systemic innovations in support of the Farm-to-Fork Strategy
 It is related to digital and space based technologies
 It is related to agro-ecological practices/ organic farming
 It is based on circular economy
 It aims for chemical pesticide reduction and/or substitution with biopesticides
 It aims for reducing loss of nutrients and fertiliser use
 Other: _____

3- Which aspect(s) do you find most interesting for establishing an active contact between projects in order to create and develop a partnership?
 General outcome of the project and the proposed solutions
 Methodological guides (extraction, environmental risk assessment, formulation)
 Field test validations
 Environmental awareness raising activities (demonstration activities)
 Registration protocols for basic substances
 Visits to the experimental fields
 Sharing of results and comparing the solutions proposed in your project
 Other: _____

4- What future actions do you think the partners of both projects/companies could implement?
 Participation in (each other's) workshops/ events
 Organisation of common workshops/ round tables on relevant thematic areas
 Joint policy recommendations
 Joint social media activities for cross dissemination
 Joint press releases
 Publication of scientific articles
 Collaboration on projects demonstration sites
 Benchmarking or actions to compare products/ services
 Knowledge exchange/ technical assistance
 Extended training courses
 Other: _____

5- Only for projects: Do you authorise us to publish your project logo and web link on the PestNu website and social media?
 Yes No

6- If so, please insert the project logo:



Data protection clause:
 In accordance with the provisions of the Data Protection Act, we inform you that the personal data you have provided us with in connection with the H2020 Green Deal PestNu project and our informative work in relation to the activities of the aforementioned project, have been included in an automated file owned by the consortium of the aforementioned project for the purpose of sending information to users requesting information and to participants in the project's activities. The coordinator of the project and its partners guarantee the exercise of the rights of access, rectification, cancellation, and opposition in the terms set out in current legislation, which may be exercised by means of a formal communication to the e-mail address info@pestnu.eu, where you may also withdraw your consent to receiving information on the activities and other services of the H2020 Green Deal PestNu project.


Appendix 10: Collaboration contract with Novaterra project

NOVATERRA STAKEHOLDER NETWORK: CONSENT FORM

Type of stakeholder (*)	General Stakeholder <input checked="" type="checkbox"/> Stakeholder Advisory Committee member (**)			
Name	Dr. Eliftheria Maria Tselivrafi			
Position in the organisation	Researcher Grade C			
Organisation	Information Technologies Institute (ITI) Centre of Research & Technology - Hellas (CERTH)			
Organisation profile	Grower/Producer Olive <input type="checkbox"/>	Grower/Producer Vine <input type="checkbox"/>	Farmers Association <input type="checkbox"/>	Research organisation <input checked="" type="checkbox"/>
	International Organisation Vine <input type="checkbox"/>	Polylemaker/public governmental organisation <input type="checkbox"/>	Denomination of Origin <input type="checkbox"/>	Industry association <input type="checkbox"/>
	PPP Manufacturer <input type="checkbox"/>	Agro machinery manufacturer <input type="checkbox"/>	Agro tech company <input type="checkbox"/>	Others (please specify): <input type="checkbox"/>
	Consumers Association <input type="checkbox"/>			
Address / Country	6th km Harilaou - Thessaloniki, 57001, Thessaloniki, Greece			
Email	riapec@iti.gr			
Phone number	+30 2311 257751			
Fields of interest in relation to the NOVATERRA Project	Vineyards <input checked="" type="checkbox"/>	Olive groves <input type="checkbox"/>	Plant Protection Products <input checked="" type="checkbox"/>	Integrated Pest Management / Regulation and EU Policy <input checked="" type="checkbox"/>
	Bio/alternative PPPs <input checked="" type="checkbox"/>	Smart Farming <input checked="" type="checkbox"/>	Soil Management <input type="checkbox"/>	


(*) See description of types of stakeholders on the Stakeholder section on the project website: <https://www.novaterra-project.eu/stakeholders/>
 (**) SAC members need to sign a separate NDA


By signing this document, I consent to the use of my contact details for information purposes of NOVATERRA.
 I accept that my data will be shared with other members of the NOVATERRA Stakeholder Network.
 I accept to be added to the LinkedIn professional Stakeholder group.

Signature and stamp: 









Place: Thessaloniki, Greece
 Date: 10/11/2022

Procedures for the protection of personal data
 The NOVATERRA consortium takes its responsibility to protect all collected personal data through the registration process. The consortium has therefore developed a procedure to address ethics regarding the protection of personal data. All Stakeholders that registered their interest through a support letter or via this consent form are added to the list of Stakeholder Network members as well as to the mailing lists for NOVATERRA communications. These lists may be used by the NOVATERRA WP Leaders to interact with all the stakeholders subscribed, giving each member a chance to participate in the project.
 Stakeholders Network members' contact information is to remain confidential and only accessible to members of the NOVATERRA Project consortium, unless stakeholders have given their consent to share their contact information amongst the NOVATERRA Stakeholders Network. Stakeholders may exercise their rights related to their personal data (access, rectification, deletion) by contacting NOVATERRA at enquiries.com@vita.goa.com.




 The NOVATERRA project has received funding from the European Commission's Horizon 2020 grant agreement number 101000554.


 NOVATERRA: Integrated Novel Strategies for Reducing the Use and Impact of Pesticides, Towards Sustainable Mediterranean Vineyards and Olive Groves

Appendix 11: Collaboration contract with Ploutos project




  <p>Horizon 2020 European Union Funding for Research & Innovation</p>	  <p>Horizon 2020 European Union Funding for Research & Innovation</p>				
NETWORKING QUESTIONNAIRE					
<table border="1"> <tr> <td>Project: H2020 LC-GD-6-1-2020 (subtopic C), GA no. 101037128</td> <td>Activity: Clustering Activities</td> <td>Date: 18/11/2022</td> <td></td> </tr> </table>	Project: H2020 LC-GD-6-1-2020 (subtopic C), GA no. 101037128	Activity: Clustering Activities	Date: 18/11/2022		
Project: H2020 LC-GD-6-1-2020 (subtopic C), GA no. 101037128	Activity: Clustering Activities	Date: 18/11/2022			
<p>Organisation/Company: GAIA EPICHEIREIN SA</p> <p>Contact person: Dr. <u>Dimitris Marinos</u> Phone No.: +30 216 2009883 Email: <u>d.marinos@ceas.gr</u></p> <p>Project name: <u>Ploutos H2020</u> Full Title: <u>Data driven sustainable smart food value chains</u></p> <p>Project web link: <u>https://ploutos-h2020.eu</u></p>					
<p>1- Do you think that the H2020 Green Deal PestNu project shares any aspect with the project/activity being carried out by your organisation? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>2- If so, indicate the aspects that are common to both projects: <input checked="" type="checkbox"/> It is a H2020 project <input checked="" type="checkbox"/> It is related to the same topic: Testing and demonstrating systemic innovations in support of the Farm-to-Fork Strategy <input checked="" type="checkbox"/> It is related to digital and space based technologies <input checked="" type="checkbox"/> It is related to agro-ecological practices/ organic farming <input type="checkbox"/> It is based on circular economy <input checked="" type="checkbox"/> It aims for chemical pesticide reduction and/or substitution with <u>biopesticides</u> <input checked="" type="checkbox"/> It aims for reducing loss of nutrients and <u>fertiliser</u> use <input type="checkbox"/> Other: _____</p> <p>3- Which aspect(s) do you find most interesting for establishing an active contact between projects in order to create and develop a partnership? <input checked="" type="checkbox"/> General outcome of the project and the proposed solutions <input checked="" type="checkbox"/> Methodological guides (extraction, environmental risk assessment, formulation) <input type="checkbox"/> Field test validations <input checked="" type="checkbox"/> Environmental awareness raising activities (demonstration activities) <input type="checkbox"/> Registration protocols for basic substances <input type="checkbox"/> Visits to the experimental fields <input checked="" type="checkbox"/> Sharing of results and comparing the solutions proposed in your project <input type="checkbox"/> Other: _____</p>	<p>4- What future actions do you think the partners of both projects/companies could implement? <input type="checkbox"/> Participation in (each other's) workshops/ events <input checked="" type="checkbox"/> Organisation of common workshops/ round tables on relevant thematic areas <input checked="" type="checkbox"/> Joint policy recommendations <input checked="" type="checkbox"/> Joint social media activities for cross dissemination <input type="checkbox"/> Joint press releases <input type="checkbox"/> Publication of scientific articles <input type="checkbox"/> Collaboration on projects demonstrating sites <input checked="" type="checkbox"/> Benchmarking of activities to compare products/ services <input type="checkbox"/> Exchange of expertise/ technical assistance <input type="checkbox"/> Extended training courses <input type="checkbox"/> Other: _____</p> <p>5- Only for projects: Do you authorise us to publish your project logo and web link on the PestNu website and social media? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>7- If so, please insert the project logo: </p> <p>Data protection clause: In accordance with the provisions of the Data Protection Act, we inform you that the personal data you have provided us with in connection with the H2020 Green Deal PestNu project and our informative work in relation to the activities of the aforementioned project, have been included in an automated file owned by the consortium of the aforementioned project for the purpose of sending information to users requesting information and to participants in the project's activities. The coordinator of the project and its partners guarantee the exercise of the rights of access, rectification, cancellation, and opposition in the terms set out in current legislation, which may be exercised by means of a formal communication to the e-mail address info@pestnu.eu, where you may also withdraw your consent to receiving information on the activities and other services of the H2020 Green Deal PestNu project.</p>				
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Appendix 12: Collaboration contract with QuantiFarm project

 			
NETWORKING QUESTIONNAIRE			
Project: H2020 LC-GD-6-1-2020 (subtopic C), GA no. 101037128	Activity: Clustering Activities	Date: 18/11/2022	
Organisation/Company: GAIA EPICHIREIN SA			
Contact person: Dr. Nikos Marianos	Phone No.: +30 216 2009883	Email: n.marianos@ec-pala.gr	
Project name: Quantifarm Full Title: Assessing the impact of digital technology solutions in agriculture in real-life conditions			
Project web link: https://quantifarm.eu			
<p>1- Do you think that the H2020 Green Deal PestNu project shares any aspect with the project/activity being carried out by your organisation?</p> <p style="text-align: right;"><input checked="" type="checkbox"/> Yes <input type="checkbox"/> No</p>			
<p>2- If so, indicate the aspects that are common to both projects:</p> <p><input type="checkbox"/> It is a H2020 project</p> <p><input type="checkbox"/> It is related to the same topic: Testing and demonstrating systemic innovations in support of the Farm-to-Fork Strategy</p> <p><input checked="" type="checkbox"/> It is related to digital and space based technologies</p> <p><input checked="" type="checkbox"/> It is related to agro-ecological practices/ organic farming</p> <p><input type="checkbox"/> It is based on circular economy</p> <p><input type="checkbox"/> It aims for chemical pesticide reduction and/or substitution with biopesticides</p> <p><input type="checkbox"/> It aims for reducing loss of nutrients and fertiliser use</p> <p>Other: _____</p>			
<p>3- Which aspect(s) do you find most interesting for establishing an active contact between projects in order to create and develop a partnership?</p> <p><input checked="" type="checkbox"/> General outcome of the project and the proposed solutions</p> <p><input checked="" type="checkbox"/> Methodological guides (extraction, environmental risk assessment, formulation)</p> <p><input type="checkbox"/> Field test validations</p> <p><input checked="" type="checkbox"/> Environmental awareness raising activities (demonstration activities)</p> <p><input checked="" type="checkbox"/> Registration protocols for basic substances</p> <p><input type="checkbox"/> Visits to the experimental fields</p>			
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<p><input checked="" type="checkbox"/> Sharing of results and comparing the solutions proposed in your project</p> <p>Other: _____</p>
<p>4- What future actions do you think the partners of both projects/companies could implement?</p> <p><input checked="" type="checkbox"/> Participation in (each other's) workshops/ events</p> <p><input checked="" type="checkbox"/> Organisation of common workshops/ round tables on relevant thematic areas</p> <p><input checked="" type="checkbox"/> Joint policy recommendations</p> <p><input checked="" type="checkbox"/> Joint social media activities for cross dissemination</p> <p><input type="checkbox"/> Joint press releases</p> <p><input type="checkbox"/> Publication of scientific articles</p> <p><input type="checkbox"/> Collaboration on projects demonstration sites</p> <p><input type="checkbox"/> Benchmarking or actions to compare products/ services</p> <p><input type="checkbox"/> Knowledge exchange/ technical assistance</p> <p><input type="checkbox"/> Extended training courses</p> <p>Other: _____</p>
<p>5- Only for projects: Do you <u>authorize</u> us to publish your project logo and web link on the PestNu website and social media?</p> <p style="text-align: right;"><input checked="" type="checkbox"/> Yes <input type="checkbox"/> No</p>
<p>7- If so, please insert the project logo:</p> <div style="text-align: center;">  </div>
<p>Data protection clause:</p> <p>In accordance with the provisions of the Data Protection Act, we inform you that the personal data you have provided us with in connection with the H2020 Green Deal PestNu project and our informative work in relation to the activities of the aforementioned project, have been included in an automated file owned by the consortium of the aforementioned project for the purpose of sending information to users requesting information and to participants in the project's activities. The coordinator of the project and its partners guarantee the exercise of the rights of access, rectification, cancellation, and opposition in the terms set out in current legislation, which may be exercised by means of a formal communication to the e-mail address info@pestnu.eu, where you may also withdraw your consent to receiving information on the activities and other services of the H2020 Green Deal PestNu project.</p>
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Appendix 13: Collaboration contract with SchoolFood4Change project


 			
NETWORKING QUESTIONNAIRE			
Project: H2020 LC-GD-6-1-2020 (subtopic C), GA no. 101037128	Activity: Clustering Activities	Date:	
Organisation/Company:			
Contact person: Amalia Ochoa Ulrika Backlund	Phone No.: 50341	Email: amalia.ochoa@icdel.org ulrika.backlund@wvf.se	
Project name: SchoolFood4Change			
Project web link: https://schoolfood4change.eu/			
<p>1- Do you think that the H2020 Green Deal PestNu project shares any aspect with the project/activity being carried out by your organisation?</p> <p style="text-align: right;"><input checked="" type="checkbox"/> Yes <input type="checkbox"/> No</p>			
<p>2- If so, indicate the aspects that are common to both projects:</p> <p><input type="checkbox"/> It is a H2020 project</p> <p><input type="checkbox"/> It is related to the same topic: Testing and demonstrating systemic innovations in support of the Farm-to-Fork Strategy</p> <p><input type="checkbox"/> It is related to digital and space based technologies</p> <p><input type="checkbox"/> It is related to agro-ecological practices/ organic farming</p> <p><input type="checkbox"/> It is based on circular economy</p> <p><input type="checkbox"/> It aims for chemical pesticide reduction and/or substitution with biopesticides</p> <p><input type="checkbox"/> It aims for reducing loss of nutrients and fertiliser use</p> <p>Other: <u>part of the GD-SOWG Food</u></p>			
<p>3- Which aspect(s) do you find most interesting for establishing an active contact between projects in order to create and develop a partnership?</p> <p><input type="checkbox"/> General outcome of the project and the proposed solutions</p> <p><input type="checkbox"/> Methodological guides (extraction, environmental risk assessment, formulation)</p> <p><input type="checkbox"/> Field test validations</p> <p><input type="checkbox"/> Environmental awareness raising activities (demonstration activities)</p> <p><input type="checkbox"/> Registration protocols for basic substances</p> <p><input type="checkbox"/> Visits to the experimental fields</p> <p><input type="checkbox"/> Sharing of results and comparing the solutions proposed in your project</p> <p><input type="checkbox"/> Other: _____</p>			
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<p>4- What future actions do you think the partners of both projects/companies could implement?</p> <p><input type="checkbox"/> Participation in (each other's) workshops/ events</p> <p><input type="checkbox"/> Organisation of common workshops/ round tables on relevant thematic areas</p> <p><input type="checkbox"/> Joint policy recommendations</p> <p><input type="checkbox"/> Joint social media activities for cross dissemination</p> <p><input type="checkbox"/> Joint press releases</p> <p><input type="checkbox"/> Publication of scientific articles</p> <p><input type="checkbox"/> Collaboration on projects demonstration sites</p> <p><input type="checkbox"/> Benchmarking or actions to compare products/ services</p> <p><input type="checkbox"/> Knowledge exchange/ technical assistance</p> <p><input type="checkbox"/> Extended training courses</p> <p>Other: _____</p>
<p>5- Only for projects: Do you <u>authorize</u> us to publish your project logo and web link on the PestNu website and social media?</p> <p style="text-align: right;">- Yes <input type="checkbox"/> No</p>
<p>6- If so, please insert the project logo:</p>
<p>7. Stamp and signature of <u>authorized</u> person:</p>
<p>Data protection clause:</p> <p>In accordance with the provisions of the Data Protection Act, we inform you that the personal data you have provided us with in connection with the H2020 Green Deal PestNu project and our informative work in relation to the activities of the aforementioned project, have been included in an automated file owned by the consortium of the aforementioned project for the purpose of sending information to users requesting information and to participants in the project's activities. The coordinator of the project and its partners guarantee the exercise of the rights of access, rectification, cancellation, and opposition in the terms set out in current legislation, which may be exercised by means of a formal communication to the e-mail address info@pestnu.eu, where you may also withdraw your consent to receiving information on the activities and other services of the H2020 Green Deal PestNu project.</p>
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Appendix 14: Collaboration contract with SmartProtect project

NETWORKING QUESTIONNAIRE

Project: H2020 LC-GD-6-1-2020 (subtopic C), GA no. 101037128	Activity Clustering Activities	Date 13/01/2023	
Organisation/Company: Inagro, Belgium			
Contact person: Sabien Pollet	Phone No.: 003251273304	Email: Sabien.pollet@inagro.be	
Project name: SmartProtect			
Project web link: https://www.smartprotect-h2020.eu/			

1- Do you think that the H2020 Green Deal PestNu project shares any aspect with the project/activity being carried out by your organisation?
 Yes No

2- If so, indicate the aspects that are common to both projects:

- It is a H2020 project
- It is related to the same topic: Testing and demonstrating systemic innovations in support of the Farm-to-Fork Strategy
- It is related to digital and space based technologies
- It is related to agro-ecological practices/ organic farming
- It is based on circular economy
- It aims for chemical pesticide reduction and/or substitution with biopesticides
- It aims for reducing loss of nutrients and fertiliser use
- Other: _____

3- Which aspect(s) do you find most interesting for establishing an active contact between projects in order to create and develop a partnership?

- General outcome of the project and the proposed solutions
- Methodological guides (extraction, environmental risk assessment, formulation)
- Field test validations
- Environmental awareness raising activities (demonstration activities)
- Registration protocols for basic substances
- Visits to the experimental fields
- Sharing of results and comparing the solutions proposed in your project
- Other: _____

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NETWORKING QUESTIONNAIRE

4- What future actions do you think the partners of both projects/companies could implement?

- Participation in (each other's) workshops/ events
- Organisation of common workshops/ round tables on relevant thematic areas
- Joint policy recommendations
- Joint social media activities for cross dissemination
- Joint press releases
- Publication of scientific articles
- Collaboration on projects demonstration sites
- Benchmarking or actions to compare products/ services
- Knowledge exchange/ technical assistance
- Extended training courses
- Other: _____

5- Only for projects: Do you authorise us to publish your project logo and web link on the PestNu website and social media?
 Yes No

6- If so, please insert the project logo:



7. Stamp and signature of authorised person:



Sabien Pollet
(Signature)

Digitally signed by Sabien Pollet
DN: cn=Sabien Pollet, o=Inagro, ou=Inagro, email=Sabien.pollet@inagro.be, c=BE


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Appendix 15: Collaboration contract with SOMIRO project

NETWORKING QUESTIONNAIRE

Project: H2020 LC-GD-6-1-2020 (subtopic C), GA no. 101037128	Activity Clustering Activities	Date 2023-01-19	
Organisation/Company: Uppsala universitet			
Contact person: Klas Hjort	Phone No.: +46 18 471 3141	Email: Klas.hjort@angstrom.uu.se	
Project name: SOMIRO			
Project web link: https://www.somiro.eu/			

1- Do you think that the H2020 Green Deal PestNu project shares any aspect with the project/activity being carried out by your organisation?
 Yes No

2- If so, indicate the aspects that are common to both projects:



- It is a H2020 project
- It is related to the same topic: Testing and demonstrating systemic innovations in support of the Farm-to-Fork Strategy
- It is related to digital and space based technologies
- It is related to agro-ecological practices/ organic farming
- It is based on circular economy
- It aims for chemical pesticide reduction and/or substitution with biopesticides
- It aims for reducing loss of nutrients and fertiliser use
- Other: _____

3- Which aspect(s) do you find most interesting for establishing an active contact between projects in order to create and develop a partnership?

- General outcome of the project and the proposed solutions
- Methodological guides (extraction, environmental risk assessment, formulation)
- Field test validations
- Environmental awareness raising activities (demonstration activities)
- Registration protocols for basic substances
- Visits to the experimental fields
- Sharing of results and comparing the solutions proposed in your project
- Other: _____

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NETWORKING QUESTIONNAIRE

4- What future actions do you think the partners of both projects/companies could implement?


- Participation in (each other's) workshops/ events
- Organisation of common workshops/ round tables on relevant thematic areas
- Joint policy recommendations
- Joint social media activities for cross dissemination
- Joint press releases
- Publication of scientific articles
- Collaboration on projects demonstration sites
- Benchmarking or actions to compare products/ services
- Knowledge exchange/ technical assistance
- Extended training courses
- Other: We will have a research school this Summer

5- Only for projects: Do you authorise us to publish your project logo and web link on the PestNu website and social media?
 Yes No

6- If so, please insert the project logo:



7. Stamp and signature of authorised person:



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Appendix 16: Collaboration contract with SPRINT project

Project:		Activity	Date
H2020 LC-GD-6-1-2020 (subtopic C), GA no. 101037128		Clustering Activities	
Organisation/Company:		CCRI	
Contact person:	Jane Mills	Phone No.:	
		Email:	jmills@los.ac.uk
Project name:		SPRINT	
Project web link:		https://www.sprint-h2020.eu/	

1- Do you think that the H2020 Green Deal PestNu project shares any aspect with the project/activity being carried out by your organisation?
 Yes No

2- If so, indicate the aspects that are common to both projects:

- X It is a H2020 project
- It is related to the same topic: Testing and demonstrating systemic innovations in support of the Farm-to-Fork Strategy
- It is related to digital and space based technologies
- X It is related to agro-ecological practices/ organic farming
- It is based on circular economy
- X It aims for chemical pesticide reduction and/or substitution with biopesticides
- It aims for reducing loss of nutrients and fertiliser use
- Other: It aims to highlight success stories/solutions for achieving a transition towards a sustainable use of pesticides

3- Which aspect(s) do you find most interesting for establishing an active contact between projects in order to create and develop a partnership?

- X General outcome of the project and the proposed solutions
- Methodological guides (extraction, environmental risk assessment, formulation)
- Field test validations
- Environmental awareness raising activities (demonstration activities)
- Registration protocols for basic substances
- Visits to the experimental fields
- Sharing of results and comparing the solutions proposed in your project
- Other:

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4- What future actions do you think the partners of both projects/companies could implement?

- Participation in (each other's) workshops/ events
- X Organisation of common workshops/ round tables on relevant thematic areas
- Joint policy recommendations
- X Joint social media activities for cross dissemination
- Joint press releases
- Publication of scientific articles
- Collaboration on projects demonstration sites
- Benchmarking or actions to compare products/ services
- Knowledge exchange/ technical assistance
- Extended training courses
- Other:

5- Only for projects: Do you authorise us to publish your project logo and web link on the PestNu website and social media?
 X Yes No

6- If so, please insert the project logo:



7. Stamp and signature of authorised person:



Data protection clause:
 In accordance with the provisions of the Data Protection Act, we inform you that the personal data you have provided us with in connection with the H2020 Green Deal PestNu project and our informative work in relation to the activities of the aforementioned project, have been included in an automated file owned by the consortium of the aforementioned project for the purpose of sending information to users requesting information and to participants in the project's activities. The coordinator of the project and its partners guarantee the exercise of the rights of access, rectification, cancellation, and opposition in the terms set out in current legislation, which may be exercised by means of a formal communication to the e-mail address info@pestnu.eu, where you may also withdraw your consent to receiving information on the activities and other services of the H2020 Green Deal PestNu project.

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Appendix 17: Collaboration contract with SUSFERT project

Project:		Activity	Date
H2020 LC-GD-6-1-2020 (subtopic C), GA no. 101037128		Clustering Activities	25.01.23
Organisation/Company:		RTDS	
Contact person:	Philippa Webb-Muegge	Phone No.:	
		Email:	philippa@rtds-group.com
Project name:		SUSFERT	
Project web link:		https://www.susfert.eu	

1- Do you think that the H2020 Green Deal PestNu project shares any aspect with the project/activity being carried out by your organisation?
 Yes No

2- If so, indicate the aspects that are common to both projects:

- It is a H2020 project
- It is related to the same topic: Testing and demonstrating systemic innovations in support of the Farm-to-Fork Strategy
- It is related to digital and space based technologies
- It is related to agro-ecological practices/ organic farming
- It is based on circular economy
- It aims for chemical pesticide reduction and/or substitution with biopesticides
- It aims for reducing loss of nutrients and fertiliser use
- Other: In terms of what PestNu is doing in developing fertilisers from wastewaters, SUSFERT is using struvite as an alternative source of P.

3- Which aspect(s) do you find most interesting for establishing an active contact between projects in order to create and develop a partnership?

- General outcome of the project and the proposed solutions
- Methodological guides (extraction, environmental risk assessment, formulation)
- Field test validations
- Environmental awareness raising activities (demonstration activities)


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4- What future actions do you think the partners of both projects/companies could implement?

- Participation in (each other's) workshops/ events
- Organisation of common workshops/ round tables on relevant thematic areas
- Joint policy recommendations
- Joint social media activities for cross dissemination
- Joint press releases
- Publication of scientific articles
- Collaboration on projects demonstration sites
- Benchmarking or actions to compare products/ services
- Knowledge exchange/ technical assistance
- Extended training courses
- Other:

5- Only for projects: Do you authorise us to publish your project logo and web link on the PestNu website and social media?
 Yes No

6- If so, please insert the project logo:




7. Stamp and signature of authorised person:

Philippa Webb-Muegge, Communication Manager, SUSFERT


Our description paragraph: "SUSFERT is developing new bio-based fertilisers to reduce dependency on unsustainable phosphorus (P) imports into the EU using struvite as a renewable source of P. The project combines bio-based, biodegradable coatings and soil improvers from wood-based lignin for controlled release and new microbial products to increase nutrient availability from supply to fit into existing EU production and agricultural processes."

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Appendix 18: Collaboration contract with Virtigation project



NETWORKING QUESTIONNAIRE


Project: H2020 LC-GD-6-1-2020 (subtopic C), GA no. 101037128	Activity <u>Questionnaire</u>	Date 12/01/2023	
Organisation/Coordinator: RTDS Association			
Contact person: <u>David Donnece</u>	Phone No.:	+436641906119	
Project name: VIRTIGATION		Email: <u>donnceer@rtds-group.com</u>	
Project web link: <u>www.virtigation.eu</u>			

1- Do you think that the H2020 Green Deal PestNu project shares any aspect with the project/activity being carried out by your organisation?
 Yes No

2- If so, indicate the aspects that are common to both projects:
 It is a H2020 project
 It is related to the same topic: Testing and demonstrating systemic innovations in support of the Farm-to-Fork Strategy
 It is related to digital and space based technologies
 It is related to agroecological practices/ organic farming
 It is based on circular economy
 It aims for chemical pesticide reduction and/or substitution with biopesticides
 It aims for reducing loss of nutrients and fertiliser use
 Other:

3- Which aspect(s) do you find most interesting for establishing an active contact between projects in order to create and develop a partnership?
 General outcome of the project and the proposed solutions
 Methodological guides (extraction, environmental risk assessment, formulation)
 Field test validations
 Environmental awareness raising activities (demonstration activities)
 Registration protocols for basic substances
 Visits to the experimental fields
 X Sharing of results and comparing the solutions proposed in your project
 Other:

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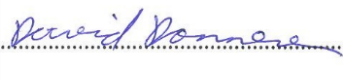


4- What future actions do you think the partners of both projects/companies could implement?
 X Participation in (each other's) workshops/ events
 X Organisation of common workshops/ round tables on relevant thematic areas
 Joint policy recommendations
 X Joint social media activities for cross dissemination
 X Joint press releases
 Publication of scientific articles
 X Collaboration on projects demonstration sites
 Benchmarking or actions to compare products/ services
 X Knowledge exchange/ technical assistance
 Extended training courses
 Other:

5- Only for projects: Do you authorise us to publish your project logo and web link on the PestNu website and social media?
 Yes No

6- If so, please insert the project logo: VIRTIGATION Logo already included on PestNu website

7- Stamp and signature of authorised person:



Data protection clause:
In accordance with the provisions of the Data Protection Act, we inform you that the personal data you have provided us with in connection with the H2020 Green Deal PestNu project and our informative work in relation to the activities of the aforementioned project, have been included in an automated file owned by the consortium of the aforementioned project for the purpose of sending information to users requesting information and to participants in the project's activities. The coordinator of the project and its partners guarantee the exercise of the rights of access, rectification, cancellation, and opposition in the terms set out in current legislation, which may be exercised by means of a formal communication to the e-mail address glad@pestnu.eu, where you may also withdraw your consent to receiving information on the activities and other services of the H2020 Green Deal PestNu project.

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Appendix 19: Collaboration contract with Waste4Green project



NETWORKING QUESTIONNAIRE

Project: LIFE17 ENV/ES/000192	Activity <u>NETWORKING</u>	Date 03/11/2022	
Coordinator: CERTH (Centre for Research & Technology Hellas)			
Contact person: <u>Maria Pechlora</u>	Phone No.:	+30 2311 257751	
Project: PestNu - Field testing and demonstration of digital and space based technologies with agroecological and organic practices in scientific innovation		Email: <u>apectnu@rtas.gr</u>	
Project Web link: <u>https://pestnu.eu/</u>			

1- Do you think that the LIFE WASTE4GREEN Project shares any aspect with the project/activity being carried out by your organisation?
 Yes No

2- If so, indicate the aspects that are common to both projects:
 It is a LIFE project
 It is related to the same topic: sustainable crop protection in fruit orchards
 It is related to agroecology waste valorisation
 R It is a circular economy project/company
 R It aims to the substitution of chemical pesticides with biopesticides
 R Other: sustainable crop protection in vegetable horticultural production

3- Which aspect(s) do you find most interesting for establishing an active contact between projects in order to create and develop a partnership?
 R General outcome of the project and the proposed solution
 R Methodological guides (extraction, environmental risk assessment, formulation)
 R Field test validations
 R Environmental awareness raising activities (Demonstration activities)
 R Registration protocols for basic substances
 R Visits to the experimental fields
 R Sharing the results and comparing the solutions proposed in your project
 Other:



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4- What future actions do you think the partners of both projects/companies could implement?
 R Participating in a congress/workshop /chat
 R Publishing an article in an academic/scientific journal
 R Extended training courses
 R Technical assistance
 R Benchmarking or actions to compare products/services
 Other:

5- Only for projects: Do you authorise us to publish the project logo and your web link on the LIFE WASTE4GREEN website and social media?
 Yes No

7- If so, please insert the project logo:



Data protection clause:
In accordance with the provisions of the Data Protection Act, we inform you that the personal data you have provided us with in connection with the LIFE WASTE4GREEN project and our informative work in relation to the activities of the aforementioned project, have been included in an automated file owned by the consortium of the aforementioned project for the purpose of sending information to users requesting information and to participants in the project's activities. The coordinator of the project and its partners guarantee the exercise of the rights of access, rectification, cancellation, and opposition in the terms set out in current legislation, which may be exercised by means of a formal communication to the e-mail address waste4green@gmail.com, where you may also withdraw your consent to receiving information on the activities and other services of the LIFE WASTE4GREEN project.



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