



**ClieNFarms**  
Climate Neutral Farms

## **D1.2 I3S Multi-actor training sessions duly organised**

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## D1.2 Multi-actor sessions duly organised

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## 1 Executive summary

The general objective of ClieNFarms is to co-develop and upscale systemic locally relevant solutions (organisational, financial, technical) to reach climate neutral and climate resilient sustainable farms across Europe, interactively integrating and improving existing solutions to achieve economically viable business models in farming systems by involving farmers, extension services, agri-food business, policy-makers, finance and citizens.

To determine the different systemic innovations that will be tested to reach climate neutral farms at the local level and within I3S, it is important to answer to I3S managers needs and to provide them guidelines to organize the various events they have to organize within their I3S.

| Objective                                                                                   | Contribution of the deliverable                                                                                                                                                                                                                                                             | Task concerned       | Impact                                                                                      |
|---------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|---------------------------------------------------------------------------------------------|
| Set up a creative arena in each I3S to select climate solution to implement                 | This deliverable permit for I3S managers that will organize the creative arena to be trained on the methodology of participative approaches and more technical aspects such as climate issues in agriculture: Greenhouse gas assessment on farm, carbon sequestration evaluation, albedo... | Task 2.1<br>Task 3.2 | Coconstruction of the climate solutions to be adopted within I3S during the creative arena. |
| Facilitate demonstration, Peer-to-Peer learning and Adoption of climate solution by farmers | Each I3S managers will be provided with guideline to organize on farm demonstration to present climate solutions to other farmers, farm advisers, stakeholders.                                                                                                                             | Task 3.4             | Upscaling the adoption of climate solution within the I3S and beyond.                       |

Different steps are necessary to obtain a shared solution and start farmers' empowerment towards the climate neutral farming concept. One of the key steps is to build multi actors approaches between farmers and other key partners of the society, territory and value chain.

This document presents **the exchanges and training provided during the first year** of the project to I3S manager and WP1 partners to achieve those multi actors events within the life of the project. This framework linked with formers H2020 projects create, within ClieNFarms, strong and common values across I3S and allowing further sharing of experiences.

During the first year of the ClieNFarms project I3Ss managers has been identified. They met together with WP1 members in two "half-day knowledge exchange session" to express their needs for specific training sessions including creative arena/living lab organisation, carbon sequestration sampling, greenhouse gases assessment on farm, farm open days organisation ...

Following these meetings, dedicated training sessions have been organised for I3S managers.

## D1.2 Multi-actor sessions duly organised

## 2 About the ClieNFarms Innovation Action

Supporting the Farm to Fork (F2F) strategy, contributing to the achievement of its objectives, the ClieNFarms project aims to demonstrate, evaluate, and improve technical, organisational, and financial solutions at the farm level that will contribute to achieving climate-neutrality of European agriculture by 2050. This will be done by a multi-actor approach, interactively integrating, and improving existing solutions to achieve economically viable business models in farming systems by involving farmers, extension services, agri-food business, policymakers, finance and citizens. These solutions will be disseminated, and young farmers will be targeted through capacity building.

The central operational focus of ClieNFarms is the case-study structure that will allow a strong empowerment of farmers and supply chain accompanied by a smooth dissemination and replication of the tested innovations. Called I3S (Innovative Systemic Solutions Space) the demonstration structure is based on demonstration farms, lead commercial farms, outreach farms and replicate farms working all together with the supply chain in a living-lab like structure approach.

ClieNFarms also intends to pave the way for combined biogeochemical (reduction in GHG missions, increase C storage) and bio geophysical effects (increase in surface albedo, reduction in sensible heat flux and infrared radiation) to mitigate climate change more efficiently, without any negative impacts for food security or yield/product quality.

The project is vastly innovative as aims to: (1) integrate different solutions to embrace mixed crop farming systems and animal production; (2) account for bio geophysical effects associated with changes in management practices in order to promote the synergies between the biogeochemical effects and the bio geophysical effects; (3) move from farm level to (eco)system level either through farm networks or by involving supply chains in a multi-actor designed process; (4) validate integrative solutions and to develop the required financial incentives to engage farmers in the required transition.

## 3 Introduction

### 3.1. Purpose of the document

The purpose of this document is to present the work conducted during the first year of project considering **multi actor approach and technical training sessions** that will permit to structure and run the creative arena in the different I3S as described in D2.1 and in task 3.2. As each I3S will have a different environment, a process of adaptation to each specific context will be needed.

These training sessions will be continued for the next 3 years of the project, capitalizing on methods described in tasks 2.1 and feedback from the first living labs events in the various I3S.

### 3.2. Structure of the document

This document is structured in two major sections:

1. **Description of the multi actor approach chosen** by the I3S managers and ClieNFarms partners.
2. **An overview of the training sessions** organized and resource documents for I3S managers.

## 4 The multi-actor approach

The overall objectives of the multi actor approach are as followed:

- Create collective intelligence
- Empowerment of I3S managers and surrounding farmers
- Spark discussion between the different stakeholders of the ecosystem surrounding the farmers and allowing a better understanding of each other's points of view
- Gather knowledge on how we can help get solution onto farms

These objectives will be targeted during dedicated living lab/creative arena events for the I3S, Demonstrative farms or Lead Commercial Farms open days, thematic meetings with various stakeholders.

The main principles of the method identified by task 2.1 and described in **deliverable D2.1 conceptual and methodological framework for creative arena (living lab)** are:

- Co-operation between stakeholders thanks to a multi-actor approach
- Utilise various levels of interaction including guidance/policy briefs, videos and web-based communication.
- Involvement of regional levels as a lever to multiply impact

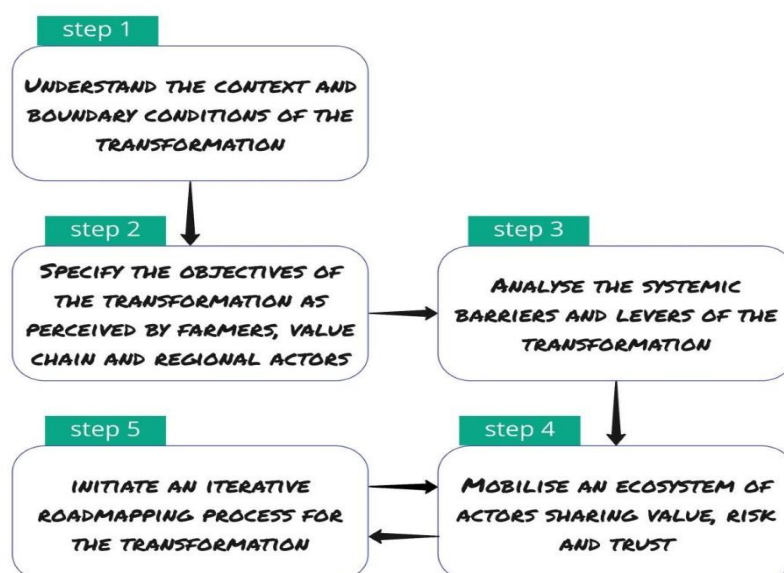


Figure 1: Overall scaling framework (as described in MS4.1): creative arena and collaborative approach could contribute actively to the steps 2 and 3.

The Collaborative process require to create a creative arena for the range of pertinent stakeholders (farmers, advisors, industry, finance ...) where they can share best practices and collaborate in a co-design participation process.

The joint participation of all stakeholders and financiers is important in order to find out the primary needs of stakeholders and generate new climatic solutions or new ways to deliver known solutions listed and described in the knowledge hub (task 1.4).

The climate neutral solutions should be designed in collaboration with all stakeholders and should represent their concerns and inputs. The set of solutions generated will be options that best matches with GHG mitigation and increase of soil carbon sequestration and optimally addresses the needs of stakeholders within the territory, consumers, environmental issues, supply chains...

Prior to co-designing and collaboration, the main actors/stakeholders must be identified. These actors should be characterised based on:

1. their role and motivation,
2. how and where within the production/demand chain they can contribute to sectoral sustainability,
3. how they relate to other actors,
4. their willingness to engage.

Lessons learnt from the **first creative arena that will be held in Ireland the 23<sup>rd</sup> January 2023** will be analysed, provided and discussed to help other I3S plan their own creative arena. The draft agenda is provided below:

- Attendee list: Researchers, industry, policy (national, local), NGOs', financiers, banks, insurances, other I3S managers or ClieN Farms WP leader etc
- Workshop 1 – Activity 1 (Multi actor discussion about the ideal farm – co construction in groups with post-its)
- Workshop 1 – Activity 2 (Multi actor discussion about the ideal farm – co construction in groups with solution cards)
- Workshop 2 (How stakeholder can help farmers implement impactful solution?) Discussion split into technical, economic, knowledge barriers etc (Figure 2)

### Workshop 2 – How can stakeholders help farmers to implement *impactful solutions*?

#### Activity 3 - Rules

1. Attendees will be split again into pre-assigned groups, however, this time remaining in the same groups (i.e. all farmers together, all industry together, etc.)
2. General overview of workshop/activity, including a definition of pre-requisite and barrier
3. Take the **high impact, low uptake potential solutions** from each matrix– bottom right of matrix in Activity 2
4. For a solution, each participant will write 2 pre-requisites and 2 barriers on post-its (same colour as Activity 1)
5. All participants to place post-its on flip chart together
6. Facilitators to rearrange putting similar answers together
7. Discuss and add any additional pre-requisites and barriers
8. Repeat until all solutions provided are discussed

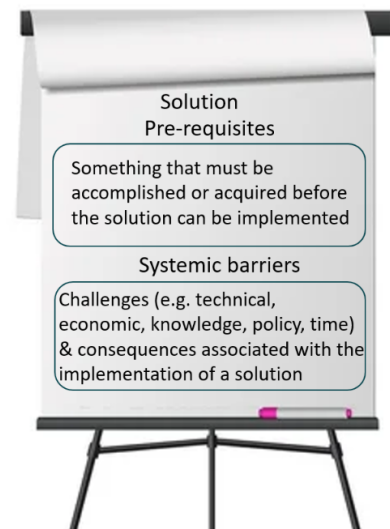


Figure 2: an example of an activity during the Creative Arena in Ireland. “How can stakeholders help farmers to implement impactful solutions?”. For each activity a clear description of the timing, the tasks, the report keeping and the facilitation are described.

## 5 Overview of training sessions in 2022

The following coordinators of the I3S have started to implement the project activities in their own area. They have access to a **multi actor and transdisciplinary toolkit** on a dedicated common space with:

- Guideline for on **farm demonstrations**
- Guideline for **virtual demonstration**
- Guideline for **creative arena workshop** in order to identify key **stakeholders and their role in the knowledge and information system in agriculture**

| Country     | Production         | Leading Partner                                       | I3S Manager          |
|-------------|--------------------|-------------------------------------------------------|----------------------|
| Belgium     | Crops              | CRAW                                                  | Michaël Mathot       |
| Switzerland | Dairy              | BFH-HAFL - Nestle                                     | Jan Grenz            |
| Germany     | Dairy (organic)    | JLU                                                   | Deise Knob           |
| Spain       | Dairy              | AGACAL                                                | César Resch Zafra    |
| France      | Beef               | IDELE                                                 | Thomas Gontier       |
| France      | Dairy              | IDELE                                                 | Pauline Lambert      |
| France      | Crops (south)      | ACTA                                                  | Oscar Godin          |
| France      | Crops (north east) | ACTA                                                  | Anne Schneider       |
| France      | Wine and energy    | EDF                                                   | Mike van Iseghem     |
| Ireland     | Beef               | Teagasc                                               | Karl Richards        |
| Ireland     | Dairy              | Teagasc                                               | Deirdre Hennessy     |
| Italy       | Tomato             | UCSC                                                  | Andrea Ferrarini     |
| Netherlands | Dairy              | WR                                                    | Jouke Oenema         |
| New Zealand | Dairy              | AgResearch                                            | Cecile de Klein      |
| Portugal    | Olive oil          | NutriFarms (DF & LF)/CONSULAI (Outreach farms)        | Isabel Ribeiro       |
| Romania     | Sheep              | IBNA                                                  | Catalin Dragomir     |
| Ukraine     | Crops              | BFH-HAFL - Ukraine                                    | Oleksii Omelianenko  |
| UK          | Crops              | Game & Wildlife Conservation Trust (Allerton project) | Alastair Leake       |
| UK          | Pigs               | University of Leeds                                   | Lisa Collins         |
| Poland      | Dairy              | Danone                                                | Anna Reps-Bednarczyk |

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Table 1: I3S and I3S managers involved in ClieNFarms multi actor approaches

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In order to stay connected to other I3Ss and to facilitate exchanges about multi approach approaches and dissemination of lessons from the first events, specific timeslots are dedicated to the multi-actor approach during:

- Knowledge exchange sessions
- I3S cross border visits
- Knowledge exchange workshop

In 2022, this work was conducted during three “half-day knowledge exchange workshop” and one full day “knowledge exchange session” a collaborative work was conducted to identify:

- Needs and interests for I3S coordinators
- Existing solution / project in each I3S
- Lacks / possible improvement in their I3S
- Identification of key environmental issues for each I3S territory
- Identification of key stakeholders to include in the creative arena.

During the **different meetings, the needs regarding a common training program has been collected.** This work results in the creation of several multi actor technical group and the creation of a dedicated space to share methodology and feedback from multi-actor events from the project. It also leads to 3 specific training sessions in the last 6 months:

- how to recruit and convince farmers and other stakeholders (held the 13<sup>th</sup> July 2022),
- how to quantify climate performance (held the 7<sup>th</sup> December 2022),
- how quantify carbon sequestration (held the 24<sup>th</sup> November 2022),
- How to assess greenhouse gases emission on farm with the Cool Farm Tool,
- how to communicate to society on agriculture specificities (still to be organized).

This work on needs will be continued throughout the life of the project taking into account I3S managers feedback from their own creative arena, farm open days or other specific events.

## 6 Conclusions

The objective of WP1 is to establish a well-functioning **European network of multi-actors I3S**, to exchange knowledge, quantify the performance baseline of the I3Ss and to build a reservoir of existing solutions which will be used and updated throughout the project.

At M12 of the ClieNFarms project within the task 1.1, WP1 and I3S managers have:

- Initiated three dedicated **training sessions for multi-actor approach**
- Created a **dedicated space where key documents and guidelines could be found** for I3S managers: how to identify key stakeholders and their role in the knowledge and information system in agriculture, how to organize a creative arena, how to organize virtual/physical farm open gate...
- Initiated a **network of I3S creative arenas** with cross fertilization, discussions, analysis and feedback after each event during a specific point to the agenda of the 4 knowledge exchange sessions each year.

Dedicated session will be put to the agenda of the "knowledge exchange session" (task 1.2) **throughout the organisation of the creative arena of the 19 I3S in order to have the feedback of all creative arena**, to discuss them together and to organize other events if needed.