



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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Table of Contents

1	Executive summary	4
2	About the ClieNFarms Innovation Action.....	5
3	Introduction.....	6
3.1.	Purpose of the document.....	6
3.2.	Structure of the document.....	6
4	The multi-actor approach.....	7
5	Overview of training sessions in 2022.....	9
6	Conclusions.....	11

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 propose a clear, concise and operational guideline. The idea is to use living-lab approach and participatory tools to define the solution space and some of the indicators that will be followed by the farmers. Different steps are necessary to obtain a shared solution and start farmers' empowerment towards the climate neutral farming concept. One of the key step 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 co-construct the multi actor approach considering their needs, interests, and environment in a collaborative approach.

Following these meetings, a common methodology has been identified with key documents from other project such as H2020 LIAISON, EURAKNOS and NEFERTITI. Those documents have been discussed, presented and put at disposal of the I3S managers on the ClieN Farms sharepoint (collaborative platform) for the next events on their I3S.

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 training sessions that will permit to structure and run the creative arena in the different I3S as described in D2.1. 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 ClieN Farms 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:

- Create collective intelligence
- Empowerment of farmers
- Spark discussion between stakeholders, an appreciation for each other's points of view
- Gather knowledge on how we can help get solution onto farms

This objectives will be targetted during dedicated living lab 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 with stakeholders rather than studying them and 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

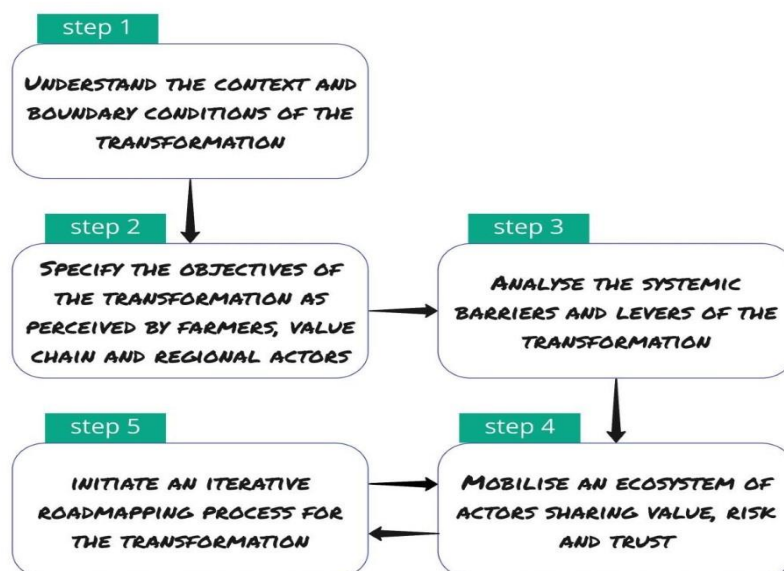


Figure 1: Overall scaling framework (as described in MS4.1) : creative arena and collaborative approach could contribute actively to the steps 2 and 3.

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

The joint participation of all stakeholders and financers 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 input. The solution 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...

D1.2 Multi-actor sessions duly organised

Prior to co-designing and collaboration, the principal 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 23rd 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

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

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

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 timeslot 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 initiated aiming 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 13th July 2022),
- how to quantify climate performance (held the 7th December 2022),
- how quantify carbon sequestration (held the 24th November 2022)
- 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 goal 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. WP1 constitutes the nexus of the project as collaborative and creative arena across I3Ss and starting point of a sustainable European Agriculture through climate-neutral farms.

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 4 knowledge exchange sessions each year

A program of exchanges and complementary training sessions is already available for 2023. It will be updated after each knowledge exchange session considering needs of I3S managers and feedback from other stakeholders involved in the creative arenas.