Soil-X-Change

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INITIATIVE OF FOSTERING CROSS-BORDER KNOWLEDGE EXCHANGE AND CO-CREATION ON SUSTAINABLE SOIL AND FARM MANAGEMENT

Soil-X-Change has received funding from the European Union's Horizon Europe Framework Programme, Coordination and Support Actions under grant agreement No. 101133914

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Fostering cross-border knowledge exchange and co-creation on sustainable soil and farm management

Deliverable 2.8
Updated Synergy Map of EU networks, similar projects and initiatives

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DEC	Websites, patent fillings, videos, etc.	☐			
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List of Abbreviations

AKI	Institute of Agricultural Economics
AKIS CB	Agricultural Knowledge and Innovation System Coordination Body
AMB	AMBIENTA
ATB	Leibniz Institute for Agricultural Engineering and Bioeconomy
BEC	Bioeconomy Cluster
BOKU	Universität für Bodenkultur Wien
CAP	Common Agricultural Policy
CDR	Centrum Doradztwa Rolniczego w Brwinowie
CoP	Community of Practice
DC	Discovery Centre
DoA	Description of Actions
EJP	European Joint Programme
HE	Horizon Europe
KGZS	Chamber of Agriculture and Forestry of Slovenia
NAAS	National Agricultural Advisory Service
NN	National Node
NNF	National Node Facilitator
UNISS	University of Sassari
PIPs	Projects, initiatives and platforms
OG	EIP Agri operational group
SME	Small and medium enterprise
SSM	Sustainable soil management
WP	Work package

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Executive Summary

Deliverable 2.8 *Updated Synergy Map of EU networks, similar projects and initiatives,* presents an updated picture on how the Soil-X-Change project actively engages with European networks, similar projects, and relevant policy initiatives to foster synergies, strengthen knowledge exchange, and increase the long-term impact of its results. Building on the initial overview provided in Deliverable 2.7 *Initial Synergy Map of EU networks, similar projects and initiatives*, this document moves beyond mapping to capture the dynamics and outcomes of cooperation that have evolved during the first half of the project implementation.

Recognising that Soil-X-Change operates in a complex landscape of EU-funded projects and policy instruments particularly under Horizon Europe, Mission Soil, and CAP Strategic Plans, this deliverable outlines the project's strategic approach to cooperation. The updated deliverable expands the initial synergy mapping by integrating the Mission Soil portfolio, additional Horizon Europe (HE) projects, and major European knowledge repositories, thus ensuring comprehensive coverage of the evolving EU soil and AKIS landscape. The strategy follows a structured four-phase process: (1) Mapping and Prioritisation of relevant Projects, initiatives and platforms (PIPs) and stakeholders; (2) Engagement Planning tailored to national and thematic contexts; (3) Active Cooperation and Knowledge Exchange, including co-hosted events, shared practices, and joint visibility efforts; and (4) Monitoring and Feedback to assess the relevance, depth, and policy alignment of each synergy.

Concrete examples of cooperation are provided at both the national and European levels. Through the National Node (NN) structure, Soil-X-Change has facilitated country-specific synergies with HE and Mission Soil projects, regional initiatives, and platforms such as EU-FarmBook. Workshops in individual project countries were designed not only to share practices but also to align knowledge flows and support national AKIS and CAP implementation efforts. These events have directly involved other EU projects, advisory networks, and policy actors, demonstrating a multi-actor, cross-project collaboration model in action.

At the EU level, the project has deepened its cooperation with major platforms, exploring joint dissemination, stakeholder engagement, and the promotion of validated soil management practices. Special attention is given to the technical preparation of Soil-X-Change knowledge objects for integration into the EU-FarmBook, ensuring long-term accessibility and reuse. Moreover, the cooperation with AKIS Coordination Bodies (AKIS CBs) and CAP Networks reinforces the project's ambition to inform national policy discussions and involvement of agricultural innovations.

An updated overview of synergy projects is included in Annex 1 and Annex2, indicating the level of interaction (e.g. active cooperation, mutual observation, or no engagement) and thematic links with Soil-X-Change. This mapping serves as both a snapshot of the current synergy landscape and a tool for steering future collaboration during the second half of the project.

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Introduction

The Soil-X-Change project aims to foster the exchange of knowledge and best practices on sustainable soil and farm management across Europe, with a strong emphasis on integration with existing European networks, projects, and policy frameworks. From its start, the project recognised that creating synergies with other EU funded initiatives and platforms is essential for ensuring the added value, efficiency, and long-term impact of its actions. Deliverable 2.8 provides an updated overview of these cooperation efforts, following the initial mapping presented in **Deliverable 2.7 Initial Synergy map of EU networks, similar projects and initiatives**. While D2.7 focused on identifying relevant initiatives, this document captures how these initial contacts have evolved into structured and in many cases operational forms of collaboration. These synergies are intended to strengthen practice-oriented outcomes, avoid duplication, and align Soil-X-Change Net with the broader strategic goals of Horizon Europe, the EU Green Deal, and the Mission Soil initiative.

This document also includes the updated tables of synergy projects (Annex 1 and Annex2), indicating the current status of collaboration and thematic relevance to the project. These tables indicate how Soil-X-Change is actively contributing to a more integrated and coherent European knowledge ecosystem for sustainable soil management (SSM).

1 Objectives of cooperation with PIPs

The cooperation with EU PIPs and policy actors is a strategic pillar of the Soil-X-Change Net. It is not merely a dissemination or visibility exercise, but a structured approach to co-create value, align efforts, and ensure that the outcomes of the project are robust, transferable, and embedded in the evolving European knowledge and policy landscape. This cooperation serves multiple complementary objectives:

1. Integrate external knowledge into Soil-X-Change deliverables and events

By engaging with PIPs that have already developed tools, methods, or insights on sustainable soil management, Soil-X-Change enriches its own outputs by incorporating validated external knowledge into its core activities. This includes integrating practices and tools from other projects into the Soil-X-Change dashboard and database (part of task 4.2), inviting PIP representatives to contribute as speakers, trainers, or panellists (e.g. Budapest Soil Health Forum co-organized by Soil-X-Change) at national and international events, and co-authoring materials or validating best practices across networks (Knowledge Board members). Such collaboration reinforces the scientific and practical credibility of the project's deliverables and ensures efficiency by building on existing work rather than duplicating efforts.

2. Avoid duplication by aligning with past and ongoing efforts

Soil-X-Change actively maps and assesses ongoing and completed initiatives particularly under Horizon 2020, HE, Mission Soil, and European Joint Programme (EJP) Soil to align methodologies, use complementary indicators, and build upon validated results. For this purpose, Soil-X-Change compares its own activities and strategically seeks synergies with projects that work directly with EIP AGRI Operational Groups (OGs) such as

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BBioNets, Nutri-Know, FOREST4EU, and others to enhance knowledge uptake and amplify the dissemination of outputs. This strategic alignment helps reduce stakeholder fatigue by coordinating invitations and dissemination efforts, avoid contradictory messages or overlapping data collection in the same regions, and ensure that the project contributes to, rather than competes with, existing soil health efforts across the EU.

3. Support visibility and policy relevance of Soil-X-Change outcomes

Strategic cooperation allows the project to amplify its results through high-impact platforms and networks, including national and EU CAP Networks, AKIS CBs and their communication channels. This enhances the uptake of peer-tested practices into broader frameworks, raises awareness among policymakers of practical solutions emerging from OGs and farmers, and strengthens the role of Soil-X-Change as a visible contributor to the Mission Soil objectives. By engaging in joint events and policy-oriented activities, the project ensures its work is seen, heard, and used by decisionmakers at both national and European levels, thereby increasing the likelihood of its recommendations being included in future policy and advisory developments.

4. Stimulate peer learning across AKIS actors at European and national levels

Soil-X-Change is rooted in multi-actor collaboration. Cooperation with PIPs enables cross-border peer learning, particularly among:

- Advisors (e.g. through networks of Climate Smart Advisors, AdvisoryNetPest, EUFRAS, SEASN),
- OGs (e.g. via Soil-X-Change NNs, BBioNets, NUTRI-KNOW, AQUAGRI-KNOW),
- Farmers (e.g. through demo events inspired by Climate Farm Demo or LILAS4SOILS),
- Policy actors (e.g. through CAP Strategic Plan exchanges, SCAR AKIS).

These interactions strengthen the European AKIS and ensure that innovations are but broadly disseminated.

5. Build trust and connections beyond the consortium for post-project sustainability

Long-term impact depends on relationships that outlast the project timeline. By nurturing cooperation with relevant initiatives and institutions, Soil-X-Change lays the foundation for continued knowledge exchange after project completion, future project partnerships and the potential institutionalization of parts of the network or tools such as the integration of validated practices into EU FarmBook. These trust-based relationships, built through consistent engagement, co-creation, and mutual benefit, are essential for ensuring that the project's legacy is preserved beyond its funding period and continues to contribute to the resilience and sustainability of European agriculture.

1.1 Soil-X-Change synergy strategy

While in its initial phase the strategy described in **Deliverable 2.7 Initial Synergy map of EU networks, similar projects and initiatives** was to map out networks that are already in existence and focus on similar themes, the established Soil-X-Change Net applies a structured strategy to foster meaningful cooperation with EU PIPs and policy actors. This approach enables both efficient engagement and long-term impact, aligning with HE goals. The synergy strategy unfolds through the following four interconnected phases (Figure 1):

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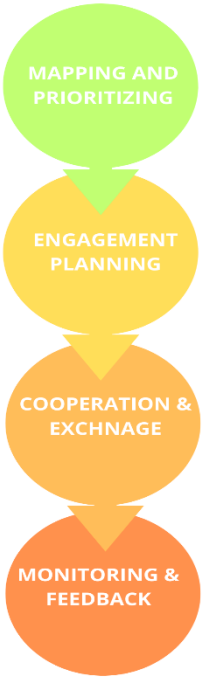

Figure 1: Soil-X-Change Synergy Strategy

Source: authors

1. Mapping & Prioritizing

In this first step, Soil-X-Change identified relevant PIPs and stakeholders across Europe, including projects funded under HE, Mission Soil, EJP SOIL, and advisory networks. Each identified partner is evaluated based on:

- Thematic alignment (e.g. soil health, soil related OGs, advisory systems),
- Stage of development,
- Potential added value to the project.

This prioritization allows the consortium to focus its efforts where synergies are most promising, rather than dispersing resources across numerous low-impact contacts.

2. Engagement Planning

Once synergies are prioritized, concrete engagement is planned. This includes:

- Identifying entry points for cooperation (e.g. joint events, shared datasets, policy alignment),
- Assigning responsibility (e.g. via National Nodes (NNs), WP2 or WP6),

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- Scheduling touchpoints (e.g. inviting partners to national workshops or external events, offering the presentation of Soil-X-Change).

The engagement plan is flexible, enabling adaptation as new opportunities arise. National Node Facilitators (NNFs) play a key role in tailoring the plan to country-specific contexts.

3. Cooperation & Exchange

This stage focuses on implementing cooperation through specific interactions:

- Co-hosted webinars, workshops, and matchmaking events,
- Bilateral knowledge exchanges,
- Shared dissemination efforts,
- Alignment with national CAP Networks and AKIS CB representatives to foster the outputs on national and EU level.

4. Monitoring & Feedback

To ensure continuous learning and accountability, all synergy actions are monitored and reviewed. A synergy engagement log tracks:

- Type of interaction,
- Partners involved,
- Strategic relevance to Soil-X-Change WPs,
- Lessons learned and follow-up needs.

All concrete actions on these 4 strategic steps are further elaborated in **Deliverable 2.4 Updated Report on National Nodes and Soil-X-Change Net Establishment and Management**

2 Current status and examples of cooperation

Since the initial mapping in M6, the Soil-X-Change project has transitioned from identifying relevant PIPs to implementing concrete cooperation strategies. Table 1 (Annex 1) now includes 32 relevant projects, each featuring a description of specific synergies established or explored with Soil-X-Change.

These actions span multi-actor collaboration, policy engagement, and knowledge integration across both the project and policy domains. Based on insights from Deliverables **D2.4 Updated Report on National Nodes and Soil-X-Change Net Establishment and Management** and **D2.9 Outcome report of events organized with AKISs in the first half of the project**, this cooperation is manifesting in national and EU-level engagements that enhance the project's strategic visibility, policy relevance, and practical impact.

The synergy map includes 15 Mission Soil projects (e.g. CREDIBLE, ECHO, NBSoil, SOILL-Startup, Prepsoil, AI4SoilHealth, InBestSoil, SoilValues, SoilWise, NOVASOIL, NUTRISOIL, HuMUS, ARAGORN, NATI00NS, LILAS4SOILS, Waste4Soil) and complementary HE Cluster 6 projects. In addition, repositories and knowledge

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platforms relevant for soil management and advisory services such as Organic Farm Knowledge, EIP-AGRI database of OGs, EJP Soil Knowledge Hub, and EU FarmBook are either identified or directly integrated into the mapping and monitoring to ensure broader visibility and access to validated knowledge objects. The synergy map (Annex1, Annex2) will remain a living instrument, updated regularly to include new Mission Soil projects and digital repositories such as Organic Farm Knowledge, ensuring that Soil-X-Change continues to mirror the dynamic European soil research and innovation ecosystem.

2.1 Integration of synergy projects at national level

NN workshops and meetings have become key activity for activating synergies:

- **Austria:** Cooperation activities are primarily focused on collaboration with the AKIS CB and targeted engagement with OGs outside the Soil-X-Change consortium. This external orientation allows for broader knowledge exchange and inclusion of additional stakeholder perspectives.
- **Bulgaria:** Cooperation activities focused on linking the OGs, engaging with the Bulgarian Humic Substances Society, Soil Science Society, and partnering with associations (e.g. No Till), universities, and NGOs. Support was provided to the national AKIS CB, leading to the submission of 19 Operational Group proposals under the Strategic Plan. NAAS also contributed to Horizon projects (Climate Smart Advisors, AdvisoryNetPest, i2connect), organizing joint national meetings, including two under Climate Smart Advisors.
- **Slovenia:** The first NN workshop, held in November 2024, brought together representatives from Horizon Europe projects HuMUS and Waste4Soils. The event fostered shared understanding of project objectives and initiated discussions on data sharing and potential collaboration in the field of soil organic matter and bio-based soil amendments.
- **Spain:** The Spanish NN meeting in January 2025 featured active participation from multiple projects and OGs including LIFE Innocereal EU. Discussions focused on sustainable soil and carbon practices, highlighting the policy relevance of grassroots innovations and the role of peer-tested methodologies in CAP implementation.
- **Hungary:** A highly participatory workshop in May 2025, organized by AKI, focused on strengthening agricultural advisory competencies and networks. It included a wide array of Horizon Europe projects and related initiatives—Organic Advice Network, AEDIH, AdvisoryNetPest, SEASN, EUFRAS, EU4Advice, ModernAKIS, ATTRACTISS, Climate Smart Advisors, CORENet, Path2Dea, Carbon Farming CE, PHITO, RAMONES, and the HU Innovation and Digitalization Support Unit (ITE)—to explore synergies in the area of soil health and advisory innovation.
- **Slovakia:** Two NN workshops were organized. The first, in autumn 2024, was co-hosted with the Ekopolis Foundation, which launched a national Soil Portal to promote regenerative farming and public awareness. The second, in early 2025, was organized in cooperation with the Greet CE project, showcasing scalable regenerative practices supported by digital technologies aimed at restoring soil health, reducing inputs, and improving profitability. Soil-X-Change was also actively promoted, and it is

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an informal part of first Slovak Community of Practice (CoP)- Soil Health, under the project Climate Smart Advisors.

- **Italy:** The Italian NN collaborates closely with the PRIME project SOILS4MED, which brings together scientists, stakeholders, and end-users to co-design sustainable and policy-relevant soil health monitoring systems. This cooperation is strategically important, as UNISS, a partner in both projects, leads Task 4.2 on identifying and selecting best practices and use cases for sustainable soil management.
- **Germany:** The German NN workshop, co-organized with D4AgEcol in November 2024, explored the role of digitalization as an enabler of agroecological farming systems. The event facilitated cross-project exchange on data-driven tools and systemic approaches to agroecology.
- **Poland:** The Polish partner CDR plays an active role in identifying and fostering synergies with relevant projects and stakeholders, contributing to the broader uptake and visibility of Soil-X-Change outputs within national advisory and policy systems.

2.2 Policy-level cooperation - AKIS CBs and CAP Network

Soil-X-Change actively collaborates with national policy actors to integrate project findings into the operational landscape of advisory services and CAP implementation:

- AKIS CBs: As detailed **in D2.9 Outcome report of events organized with AKISs in the first half of the project**, project countries have involved AKIS CBs in NN events, bilateral dialogues, and strategic planning. These AKIS CBs support the inclusion of Soil-X-Change in national advisory agendas and facilitate access to national OGs and farmer groups.

CAP Network: Soil-X-Change has established working relations with national CAP Networks. These collaborations are often informal but represent a trusted channel for mainstreaming project outputs. The CAP Network's involvement also ensures that national OGs can reference Soil-X-Change membership and outputs when applying for CAP support.

2.3 Strategic Engagement and coordination of synergies

Beyond internal events, Soil-X-Change has actively contributed to external knowledge exchange platforms to broaden its outreach and align with complementary initiatives. This includes participation in Communities of Practice (CoPs) and knowledge exchange events hosted by Climate Smart Advisors/ Climate Farm Demo events, where discussions focus on AKIS transformation and climate advisory services, as well as collaboration with EU-FarmBook to explore the technical integration of validated practices and knowledge objects into broader European knowledge hubs.

These external engagements are systematically tracked and coordinated by BEC, with support from the coordinator Innomine and other partners, through a dedicated synergy log. This monitoring effort captures

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the type and depth of cooperation such as co-hosted events, shared data usage, and co-dissemination efforts while also assessing strategic alignment with Soil Mission goals and relevance to key work packages (notably WP4, WP5, and WP6). As a result, Soil-X-Change is now well-positioned to deepen and expand its synergies in the second half of the project, with a focus on collaboration with Mission Soil projects, carbon farming pilots, and national AKIS reform processes.

The current status of cooperation with the synergy projects initially identified in **Deliverable 2.7 Initial Synergy map of EU networks, similar projects and initiatives** is reflected in the updated HE Synergy Projects table, provided in Annex 1 and in Annex 2 reflecting the current EJP Soil Sources. The final set of 31 PIPs (Annex 1 and Annex2) was categorised by expected level of synergy:

- **High relevance (red colour)** - direct thematic and methodological alignment; priority for joint actions.
- **Medium relevance (orange colour)** - complementary focus areas or transferable tools for Soil-X-Change activities.
- **Low relevance (yellow colour) -** exploratory initiatives monitored for potential future cooperation.

Colour coding- identification of the relevant activities

Activities classified as very high relevance:

- Network creation, collecting of sustainable soil management (SSM) practices,
- Joint seminars, workshop, webinars, trainings, focus groups, cross visits for OGs,
- Synergy activities are launched.

Activities classified as medium relevance:

- Databases, methodology for sustainable soil management practice, practice abstracts, solutions,
- Synergy activities have not yet started but the activities of project/initiative are monitored by Soil-X-Change Net.

Activities classified as low relevance

- Specific topics relatable to Soil-X-Change, synergy is not yet developed.

Conclusion

This deliverable highlights the progress made by Soil-X-Change Net in establishing meaningful and strategic synergies within a wide range of EU funded projects, platforms, and policy initiatives . Building on the initial mapping exercise in Deliverable 2.7, the current update demonstrates how early-stage identification has evolved into concrete, action-oriented cooperation across multiple levels - European, national, and regional. The Soil-X-Change synergy strategy has proven to be an effective framework for guiding this process, enabling the project to prioritize engagement, implement collaborative actions, and monitor their relevance and

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impact. At the national level, the NNs play a crucial role in facilitating cross-project dialogue and embedding Soil-X-Change into existing AKIS structures.

As the project enters its second half, the established synergies provide a strong foundation for deeper cooperation, particularly in the areas of knowledge object integration, support to policy implementation, and preparation for post-project sustainability. The updated synergy map presented in this deliverable will continue to serve as a living tool for guiding strategic engagement and ensuring that Soil-X-Change remains well-aligned with the broader European soil mission and Green Deal objectives.

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Annex 1

Table 1: HE Synergy Projects

Number	Project acronym	Status of cooperation with Soil-X-Change	Main funding scheme	Short description	Website	Synergy indicated by partner
1	**EU-FarmBook**	Knowledge objects developed within the Soil-X-Change project are being prepared for integration into the EU-FarmBook platform	HORIZON-RIA CL6	EU-FarmBook is the answer to real needs of farmers, foresters and advisors. The Horizon Europe project offers an interactive, multi-lingual meeting place for agriculture and forestry communities, giving access to trustworthy knowledge objects according to findable, accessible, interoperable, and reusable (FAIR) data principles. EU-FarmBook users can interact and explore innovative ways to solve their daily challenges.	https://welcome.eufarmbook.eu/	AKI, CDR
2	**MarginUp**	Potential practice provider, ongoing communication efforts.	HORIZON-IA CL6	Project proposes a strategy to secure use and return profitability on marginal lands. Main objective is to introduce climate-resilient and biodiversity-friendly non-food crops for sustainable industrial feedstock in marginalised and low-productivity lands.	https://margin-up.eu/	INM, ABM

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3	**BBioNets**	Maintain an active and ongoing collaboration, regularly exchanging information, aligning communication efforts, and identifying shared objectives; co-organized the online workshop titled *"The Future of EIP-AGRI Operational Groups: Challenges, Opportunities and Existing Support Services"*	HORIZON-CSA CL6	BBioNets will constitute a thematic network that will rely on, promote, and further advance the work carried out by EIP AGRI Operational Groups (OGs) with respect to management and/or processing of agricultural and forest biomass with Bio-Based Technologies (BBTs). Applying the quintuple helix model and a multi-actor approach both within the consortium itself and on the ground activities, BBioNets will set up 6 regional Forest and Agriculture Networks - FANs (IE, ES, IT, GR, PL, CZ) that will ensure balanced representation of all AKIS stakeholders. viable and sustainable practices. BBioNets's solid foundation and strength lies in its partners' a) wide networks covering the Agriculture, Forestry and Bioeconomy world, b) long-established collaborations with OGs, c) extensive knowledge of bio-based technologies and solutions and d) long experience in awareness raising, knowledge transfer, capacity building, networking and value chain creation services.	https://bbionets.eu/	INM
4	**Climate Farm Demo**	Exchange of key messages related to climate-smart and sustainable soil practices; enhancing knowledge transfer	HORIZON-CSA CL6	Climate Farm Demo is a pan-European network aiming to promote Climate Smart Farming practices and achieve a carbon-neutral agricultural sector by 2050 in alignment with EU climate goals.	https://climatefarmdemo.eu/	KGZS, AKI, BEC

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		between demonstration farms, advisors, and farmers, and exploring complementarities in the use of living labs, peer learning formats, and policy outreach. Expected reference for T5.1		Through a Multi-Actor approach, involving Pilot Demo Farmers and Climate Farm Advisors, the project facilitates knowledge exchange, demonstration of innovations, and environmental performance monitoring. The project plans to co-create innovative Climate Smart Farming solutions in Living Labs across Europe, organize demo-events, and collaborate strategically with stakeholders to advance sustainable agricultural practices.		
5	**CREDIBLE**	Participation in the 2nd Carbon Farming Summit, organized by CREDIBLE -- Soil-X-Change contributed to the session on *Farmers' and Regions' Perspectives on Carbon Farming*, with practical insights from OGs and NNs.	HORIZON-MISS	The main goal of the CREDIBLE project is to build momentum and trust for the implementation of carbon farming in the EU. This will be primarily achieved by setting up and moderating a network of initiatives/projects/stakeholders (referred to here as the Network of Networks - NoN) for favouring transparency, environmental integrity, and methodology standardisation in soil carbon accounting.	https://www.project-credible.eu/	BEC

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6	**NUTRICHECK-NET**	no formal cooperation is planned at this stage	HORIZON-CSA CL6	Thematic Network called "NUTRI-CHECK NET" that builds farm-level adoption of best field-specific nutrient management practices across Europe. In nine countries farmers' Crop Nutrition Clubs (CNC) will identify and share the nature of their uncertainties about crop nutrition, their challenges and barriers to change. Decision-systems and nutrition tools (including commercial products, services, and recent research outputs) will be assembled by national experts from across Europe, including leading farmers, into a common online NUTRI-CHECK NET platform. CNCs will then evaluate effectiveness of new protocols and tools selected from the a toolbox to meet their main challenges. Thence they will co-create and adopt farm- and field-specific 'measure-to-manage' approaches that address their crop nutrition challenge(s).	https://nutri-checknet.eu/	CDR
7	**ECHO**	no formal cooperation is planned at this stage	HORIZON-MISS	The overall aim of ECHO is to engage EU citizens in soil health increasing their knowledge, by generating new data on the health status of EU soils to complement existing soil mapping and soil monitoring in EU Member States, and awareness on the ecological and societal importance of soils.	https://echosoil.eu/	ABM

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8	**i2connect**	Shared thematic alignment with both in strengthening advisory systems and AKIS governance	H2020 - CSA	The i2connect project aims to fuel the competencies of advisors who will support and facilitate interactive innovation processes responding to multiple challenges in European agriculture and forestry. The strategy in i2connect is to use the existing advisor networks and the experiences of success in different contexts to create a broader network and momentum of change enabling a new culture of bottom-up led innovation support. This resource of over 40,000 advisors are critical actors supporting agriculture and forestry on the ground and must be influenced in this project to support interactively innovation with particular emphasis on EIP-AGRI 2020 target of 3,500 operational groups and beyond.	https://i2connect-h2020.eu/	NAAS, CDR

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9	**modernAKIS**	Shared thematic alignment with both in strengthening advisory systems and AKIS governance	HORIZON-CSA CL6	modernAKIS aims to improve AKIS actors' capacities to leverage individual, organizational and systemic resources needed for the transformation towards more coherent, effective and efficient AKIS systems and the transition to a more sustainable management and use of natural resources in farming and forestry. To this end it will build and foster a European network of at least 1.000 key AKIS actors, including AKIS coordination bodies, from all EU MS, who will act as linchpins in the transformation of the AKIS systems towards a more effective governance and the modernization of the European agri-food sector. The project will also build the capacities of these key AKIS actors towards systems understanding and engagement, enabling them to enact long-term system changes that will improve the AKIS.	https://modernakis.eu/	NAAS, CDR, AKI
10	**AdvisoryNetPEST**	Future exchanges may be considered if overlapping stakeholder needs or knowledge transfer opportunities arise	HORIZON-CSA CL6	TTo achieve the objectives of the Farm to Fork strategy, the Commission proposed, among other, new targets to reduce the use and risks of pesticides (RURP). The main objective of AdvisoryNetPEST is to establish and upgrade a network of advisory services across the EU, increasing the knowledge sharing between advisors, and among the whole AKIS, and the adoption of innovative solutions to RURP by farmers.	NA	NAAS, CDR, AKI

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11	**ClimateSmartAdvisors**	Exchange of key messages related to climate-smart advisory systems; enhancing knowledge transfer between through advisors, and participating in CoPs.	HORIZON-CSA CL6	The aim of the project is to boost the EU agricultural advisory community, leading to an acceleration of the adoption of climate smart (CS) farming practices by the wider farming community within and across EU AKISs. To reach this objective, ClimateSmartAdvisors focuses on the crucial role of advisors in the development and dissemination of CS innovations and practices. The project will organize activities focusing on strengthening the advisors' capacity in providing CS advice and boosting the advisors' role in the transition towards CS farming through their involvement in innovation projects, CS-AKIS, and EU projects and initiatives.	https://climatesmartadvisors.eu/	BEC, NAAS
12	**D4AgEcol**	Active cooperation on the level of German NN.	HORIZON-CSA CL6	D4AgEcol will show the potentials of digitalisation as enabler for agroecological farming systems in Europe based on available knowledge and actors' and stakeholders' co-innovation capacity . Partners from seven countries across a wide spectrum of pedoclimatic zones in Europe will assemble a holistic evaluation of digital tools and technologies. This will be based on indicators for agroecology, economic considerations and investigations about perceived benefits for user and stakeholder.	https://d4agecol.eu/	ATB

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13	**NBSoil**	Initial contact was established, activities of NBSoil were promoted on SM channels, however no concrete cooperation yet established.	HORIZON-MISS	The EU-funded NBSoil project will design a blended learning programme to mainstream knowledge and help soil advisors implement a holistic vision of soil health. Specifically, the project will focus on six multifunctional categories: organic fertilisers from locally available biowastes, cover crops, paludiculture, forest diversification, bioremediation, and blue-green infrastructure in urban and periurban areas. An estimated 300 participants from 8 EU countries are expected to complete the 2-year training (an introductory online course and four advanced modules) offered by the project.	https://nbsoil.eu/	CDR
14	**NUTRI-KNOW**	Co-organized the online workshop titled *"The Future of EIP-AGRI Operational Groups: Challenges, Opportunities and Existing Support Services"*	HORIZON-CSA CL6	The main objective of NUTRI-KNOW is to broaden EIP-AGRI Operational Group (OG) outcomes on the thematic of nutrient management across borders to modernise and dynamise the agricultural sector by collecting, translating and sharing easy-to-understand and practice-oriented knowledge. NUTRI-KNOW will assure the appropriate adoption of the OGs results and experience by farmers, practitioners and other relevant end-users.	https://www.nutri-know.eu/	DC

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15	**SOILL-Startup**	no formal cooperation is planned at this stage; however, the possibilities for future cooperation are still monitored	HORIZON-MISS	"The ""A Soil Deal for Europe"" Mission aims to accelerate the transition to healthy soils by 2030 through the establishment of 100 Soil Health Living Labs and Lighthouses (SHLL/LHs) that will drive the development and adoption of solutions. During the initial two years of SOILL, the SOILL-Startup project will collaborate with the first waves of SHLL/LHs and key stakeholders to launch the SOILL one-stop structure. SOILL-Startup will enhance the visibility and accessibility of the SHLL/LHs, their work, and achievements. Mutual-learning events, collaborative platforms, mutual visits, and matchmaking will facilitate collaboration opportunities, knowledge sharing, and solution uptake."	https://soill2030.eu/	-
16	**Prepsoil**	no formal cooperation is planned at this stage	HORIZON-MISS	PREPSOIL will adopt a proactive approach to co-create with stakeholders, leveraging on both offline and online facilities, with the ultimate purpose of generating long-lasting interaction spaces. Furthermore, PREPSOIL will provide the first assessments and efforts towards an improved knowledge base and awareness level on soil health for multiple stakeholders. PREPSOIL's web portal is envisaged as the European "one-stop-shop" for all information, resources and digital engagement tools for the Mission stakeholders.	https://prepsoil.eu/	-

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17	**AI4SoilHealth**	Both project co-organized Budapest Soil Health Forum, mutual stakeholders' interests.	HORIZON-MISS	AI4SoilHealth project will co-design, create and maintain an open access Europe-wide digital infrastructure founded on advanced AI methods combined with new and deep soil health understanding and measures. The AI-based data infrastructure will evolve a Soil Digital Twin. The project will deliver a coherent Soil Health Index methodology, Rapid Soil Health Assessment Toolbox, AI4SoilHealth Data Cube for Europe, Soil-Health-Soil-Degradation-Monitor, and AI4SoilHealth API and mobile phone app. AI4SoilHealth will test the tools, collecting feedback from target users.	https://ai4soilhealth.eu/	-
18	**InBestSoil**	No formal cooperation is planned at this stage; however, the possibilities for future cooperation are still monitored	HORIZON-MISS	InBestSoil project will design an economic valuation system of the ecosystem services delivered by a healthy soil and the impacts of soil interventions, and assess its incorporation into business models and incentives. This will allow public and private organisations to assign economic value to their actions. Involving 19 partners like farmers and enterprises from 10 countries, InBestSoil will provide data, evidence, tools and models to assess how investment in soil health can contribute to long-term resilient and sustainable use of soil.	https://inbestsoil.eu/	

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19	**SoilValues**	No formal cooperation is planned at this stage; however, the possibilities for future cooperation are still monitored	HORIZON-MISS	SoilValues will contribute to the conditions for developing successful soil health business models. These are models in which land managers make production decisions that result in higher levels of soil-based ecosystem services. In addition to establishing the indicators and models to measure outcomes, the project will establish testing grounds across Europe and design a toolbox of incentives and policy recommendations.	https://soilvalues.eu/	-
20	**SoilWise**	No formal cooperation is planned at this stage; however, the possibilities for future cooperation are still monitored	HORIZON-MISS	SoilWise project aims to make accessible the scattered and heterogeneous soil data and knowledge in Europe to support informed decision-making and the Soil Health Law. The project's focus is on making these resources FAIR (Findable, Accessible, Interoperable and Reusable) and fostering trust and willingness to share and reuse such valuable information. Through collaborative efforts involving stakeholders, SoilWise intends to streamline existing workflows and repositories, enhancing their discoverability and interconnection.	https://soilwise-he.eu/	-

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21	**NOVASOIL**	No formal cooperation is planned at this stage; however, the possibilities for future cooperation are still monitored	HORIZON-MISS	NOVASOIL project will highlight the benefits of investing in soil for society and the environment. It will propose a toolbox of good practices, models and business cases drawn from different parts of Europe and beyond. The overall aim is to promote sustainable soil management under different land uses and climatic conditions while promoting soil health. The NOVASOIL toolbox will be developed with the guidance of a multidisciplinary team of experts with experience in developing soil health business models based on sustainable crop and soil management.	https://novasoil-project.eu/	-
22	**NUTRISOIL**	No formal cooperation is planned at this stage;	HORIZON-ERC-POC	The goal of NUTRISOIL is to clearly identify, address, and resolve soil-related obstacles to the sustainable implementation of peri-urban agriculture in cities by providing the technical expertise and creating a knowledge transfer exchange amongst farmers, composting facilities, WWTPs, administration, policy makers, and the various governing and coordinating associations implicated in the entire cycle of nutrients in the city: from waste to food.	NA	-

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23	**HuMUS**	Active cooperation on the level of Slovenian NN.	HORIZON-MISS	HuMUS main aim is to facilitate the deployment of the Soil Mission across regions and municipalities, through: (i) the creation and experimentation of spaces for social dialogue on soil health among public and private actors in Europe; (ii) the promotion of a shared understanding and co-assessment exercises of soil challenges (biophysical and socio-economic dimensions); and, (iii) the enhancement of knowledge sharing among municipalities and regions, including on the needed transformations in current S4 (Sustainable Smart Specialisation) strategies and the use of available EU funds to support the transition.	https://humus-project.eu/	KGZS
24	**ARAGORN**	No formal cooperation is planned at this stage;	HORIZON - MISS	ARAGORN will provide better insights into contaminated sites and improve remediation and restoration decision-making by implementing robust mapping and monitoring tools that are fit-for-purpose and covers a wide range of contaminants. ARAGORN will compile and test remediation strategies and sustainable soil decontamination solutions, and will develop and put in practice nature-based solutions, improve knowledge on biodiversity and deliver a framework for step-by-step decision making in terms of what is the best approach for resilient restoration in various European countries.	https://aragorn-horizon.eu/	-

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25	**NATI00NS**	Presentation of Soil-X-Change in the national event of NATI00NS in Slovakia.	HORIZON-MISS	Aims at establishing 100 regional Living Labs and Lighthouses as innovation and knowledge beacons that can collaboratively create and test land management practices and solutions; the aim is to improve soil health to lever systemic change in land use so that the European soils health status is substantially restored by 2030, setting course towards 100 % healthy soils by 2050. Through national engagement events organised in 43 countries (all EU Member States and Horizon Europe Associated Countries), the EU-funded NATI00NS project will reach out to relevant stakeholders seen as potential actors and through individual coaching sessions, capacity building activities and matchmaking sessions prepare them to apply for and implement soil health Living Labs.	https://nati00ns.eu/	-

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26	**STRATUS**	No formal cooperation is planned at this stage; however, the possibilities for future cooperation are still monitored	Horizon-CSA CL6	Aims to connect advisors across Europe for accelerating knowledge creation and sharing on Integrated Fertilization Management, supporting farmers to bring this knowledge into practice to achieve the ambition of the Farm to Fork and Biodiversity Strategies, thus reducing nutrient losses to the environment while maintaining soil fertility Create an EU-wide advisory network through the creation of three transnational sub-networks (Fertilization Innovation Networks - FIN) on Precision farming, Bio-based fertilisers and Soil quality (SQ) in which trained advisors will collect a total of 104 Good Practices (GPs) and Research Innovations (RIs) on optimal fertiliser use and will identify at least 48 Best Practices (BPs) as the result of the systemic feasibility assessment of the GPs and RIs	NA	CDR
	SOILS4MED	Participated at BSHF in Soil-X-Change panel discussion. Active cooperation on the level of Italian NN.	PRIMA	Develop integrated indicator sets to monitor soil health and establish soil information systems to best manage soil information for sustainable soil management	https://mel.cgiar.org/projects/1866	UNISS

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27	**ATTRACTISS**	Shared thematic alignment with both in strengthening advisory systems and AKIS governance. Cooperation on the level of Hungarian NN.	HORIZON-CSA CL6	ATTRACTISS project aims to enhance and establish competencies, approaches, instruments and governance models for Member States' agricultural knowledge and innovation systems (AKISs).	https://attractiss.eu/	AKI
28	**AQUAGRI-KNOW**	Co-organized the online workshop titled *"The Future of EIP-AGRI Operational Groups: Challenges, Opportunities and Existing Support Services"*	HORIZON-CSA CL6	AQUAGRI-KNOW project will enhance on-farm water management by building on EIP-AGRI operational groups (OGs) outcomes. It addresses water scarcity and quality through four strategies: water use, water smart crops, water-soil interface and water reuse. The project will gather insights from EIP-AGRI OGs, address the needs and challenges of end-users, create tailored knowledge for farmers, facilitate knowledge flow and maximise impact across borders.	https://aquagri-know.eu/	CDR
29	**FOREST4EU**	Co-organized the online workshop titled *"The Future of EIP-AGRI Operational Groups: Challenges, Opportunities and Existing Support Services"*	HORIZON-CSA CL6	FOREST4EU sets up multi-actor innovation interregional transversal Hubs dealing with 5 innovation topics ('Wood mobilisation', 'Forest adaptation to climate change', 'Improving approaches, models and tools for sustainable forest management and ecosystem service provision to improve economic, environmental and social benefits for rural areas', 'non-wood forest products', 'Agroforestry') to facilitate interregional transfer of knowledge generated by the OGs.	https://www.forest4eu.eu/	-

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30	**LILAS4SOILS**	Initial contact was established on the level of coordinators to explore potentials for joint events.	HORIZON-MISS	LILAS4SOILS puts in place 5 Living Labs (LLs) in 6 countries to co-create the adoption of Carbon Farming solutions within farmers, agri-food businesses, researchers and local authorities, and implement Carbon Farming Practices -CFPs- (peatland management, agroforestry, livestock and manure management, and nutrient management, maintaining soil organic carbon) in 85-100 demo-sites.	https://www.lilas4soils.eu/	-
31	**Waste4Soil**	Active cooperation on the level of Slovenian NN.	HORIZON-MISS	Project pioneers 10 solutions to transform these residues into local, bio-based circular soil enhancers. It will introduce a standardised evaluation framework, empowering stakeholders across the food value chain to assess their progress in achieving circularity with food processing residues.	https://www.waste4soil.eu/	KGZS
32	Greet CE	Active cooperation on the level of Slovak NN.	EU-I3	The Greet CE project focuses on the green transition in Central Europe, aiming to increase the capacity of regional innovation ecosystems, especially SMEs, in less developed Central European regions. The project is funded under the Interregional Innovation Investments Instrument and focuses primarily on green transition within the bioeconomy sector. Key objectives include fostering bioeconomy investments, facilitating interoperation in EU value chains, and enhancing interactive training and education opportunities.	https://greetce.eu/	BEC

Colour coding: 🔴 High relevance – Active cooperation, joint activities, co-organization of events, data sharing, 🟠 Medium relevance – Thematic alignment; monitoring of project activities, potential for cooperation 🟡 Low relevance – Limited or indirect relevance; potential future engagement

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Annex 2

Table 2: EJP Soil Sources

Number	Project acronym	Area of cooperation	Short description	Website	Synergy indicated by partner
1.	**i-SoMPE**	Documentation of innovative soil management practices in Europe; use for data collection	Documentation of innovative soil management practices in Europe will provide information on regional and local practices and conditions. Online interactive maps, description, data and graphic will be accessible to the public. Exchange of knowledge between countries on current and innovative soil management practices and to develop a framework for assessing the current and potential area of application of soil management practices across Europe.	https://ejpsoil.eu/soil-research/i-sompe	-

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2.	**SERENA**	Potentially assess, analyze and map soil ecosystem services bundles across European agricultural landscapes	SERENA intends to enhance soil policy effectiveness through the analysis of soil ecosystem services bundles across European agricultural landscapes, i.e. the analysis of a set of soil-based ecosystem services, which are repeatedly appearing together across space and time. Furthermore, SERENA aims to highlight how soil threats affect the supply of services bundles through adoption of a set of site-specific (i.e. for different pedo-climatic and agricultural systems) thresholds. Consequently, the differences among areas in specific pedo-climatic agricultural systems may support the identification of policies and strategies to preserve or improve the joint provision of ecosystem services across landscapes, and limit soil degradation and contrast land consumption.	https://ejpsoil.eu/soil-research/serena	-

Colour coding: 🔴 High relevance – Active cooperation, joint activities, co-organization of events, data sharing, 🟠 Medium relevance – Thematic alignment; monitoring of project activities, potential for cooperation 🟡 Low relevance – Limited or indirect relevance; potential future engagement

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