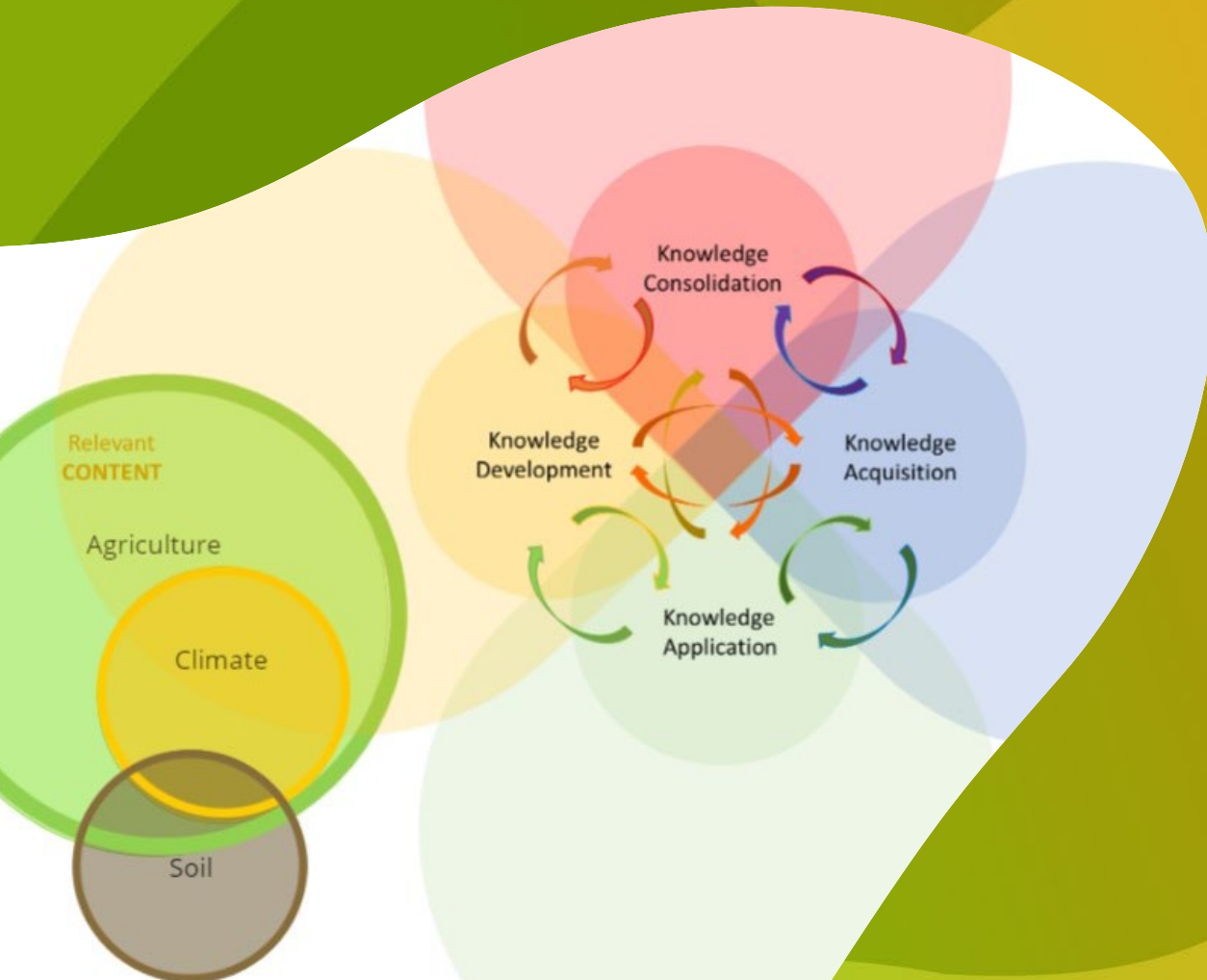




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Breakout Session

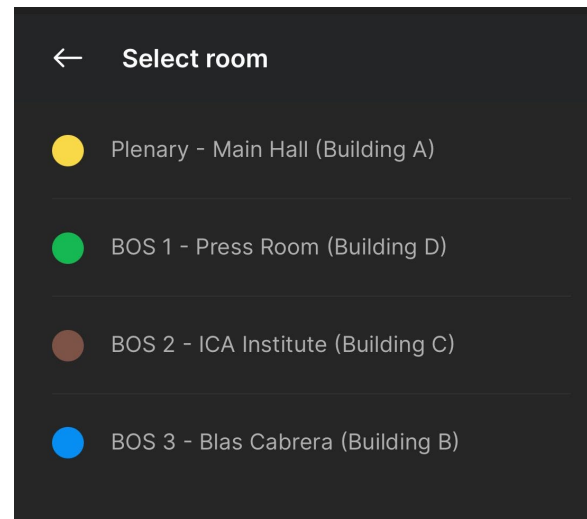
Knowledge transfer to farm advisors

November 22, 11:30-13:00

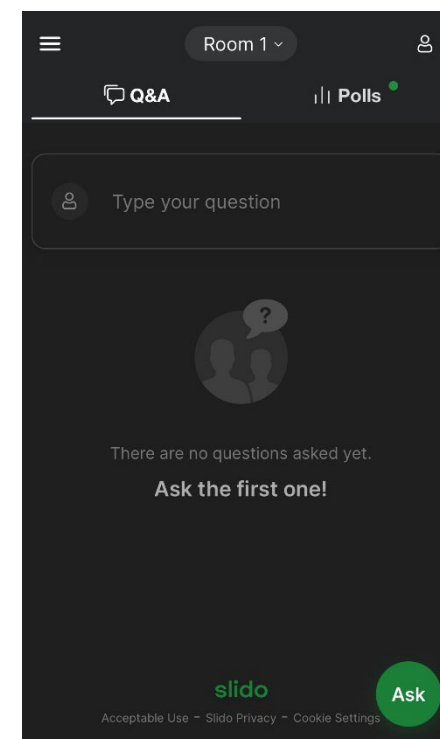
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Housekeeping rules

- **WIFI**
 - Network : EMSW
 - Password : np9dpL9Y\$8CS7v%
- **Questions**
 - Go to www.sli.do and enter event code **#ESMW2023** (or scan the QR code)
 - Select the 'room' of the session
 - Submit your questions



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Agenda

- Introduction (Amanda Matson) – Session format and knowledge landscape
- Moderator: Anna Besse-Lototskaya
- Presentations (8-10 min, followed by 5-7 min of interaction using Slido)
 - *Luis Orcaray*: Knowledge transfer from the perspective of the advisory community
 - *Amanda Matson*: EJP SOIL knowledge transfer - a participatory approach
 - *Javier Montellano*: NBSoil - Nature-based Solutions for Soil Management
 - *Maria Mendonça, Diogo Moniz*: Climate Smart Advisors - Knowledge Acquisition
 - *Juan Pedro Romero Trueba*: Knowledge transfer to farmers' advisors - EU Farmbook
- *Summary of audience input (6-8 min): Raisa Gerasina*
- *Closing Slido question*



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Moderator

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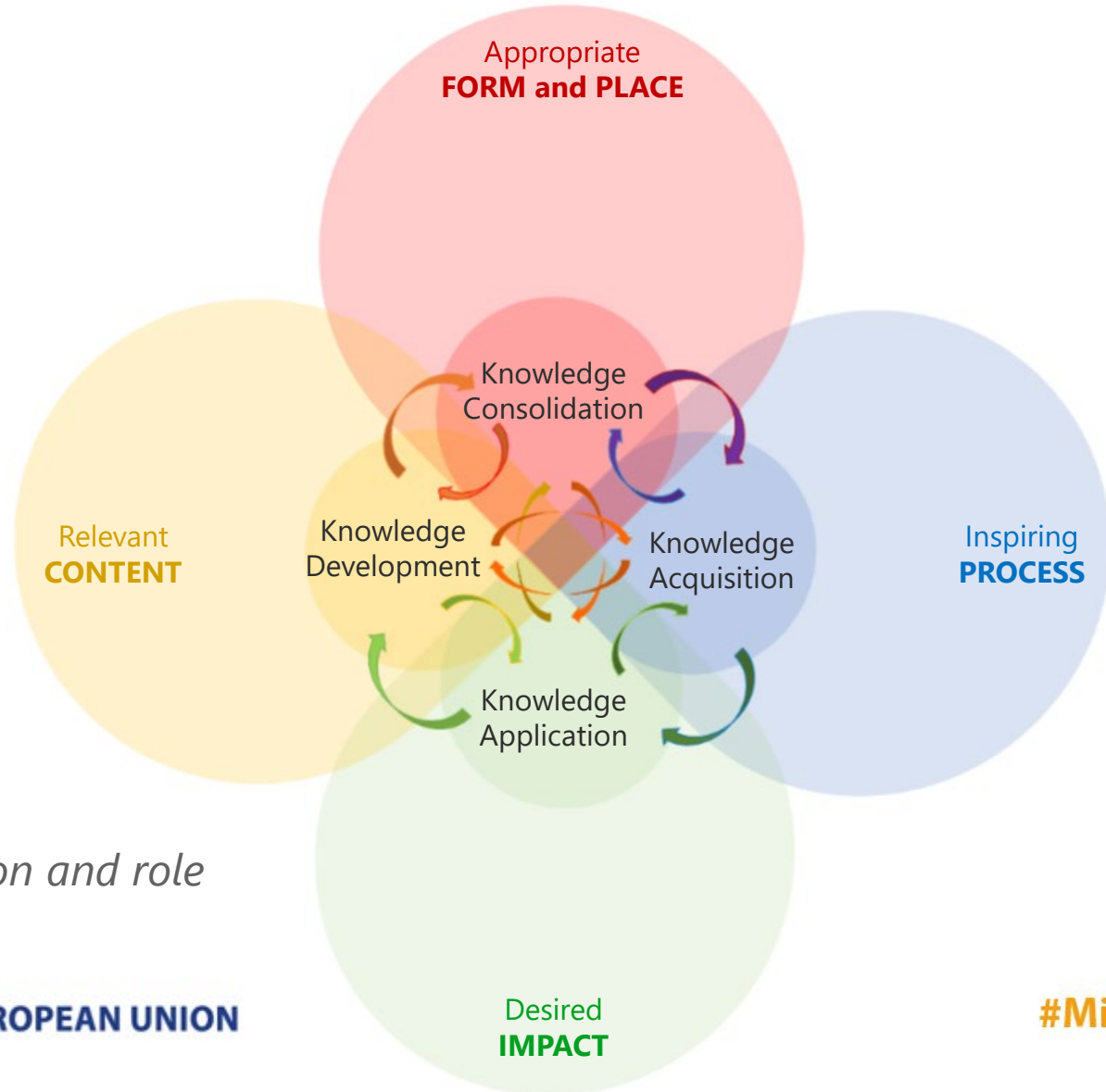
Anna Besse-Lototskaya

Co-coordinator of the EU-co-funded
programme EJP SOIL

Wageningen University & Research

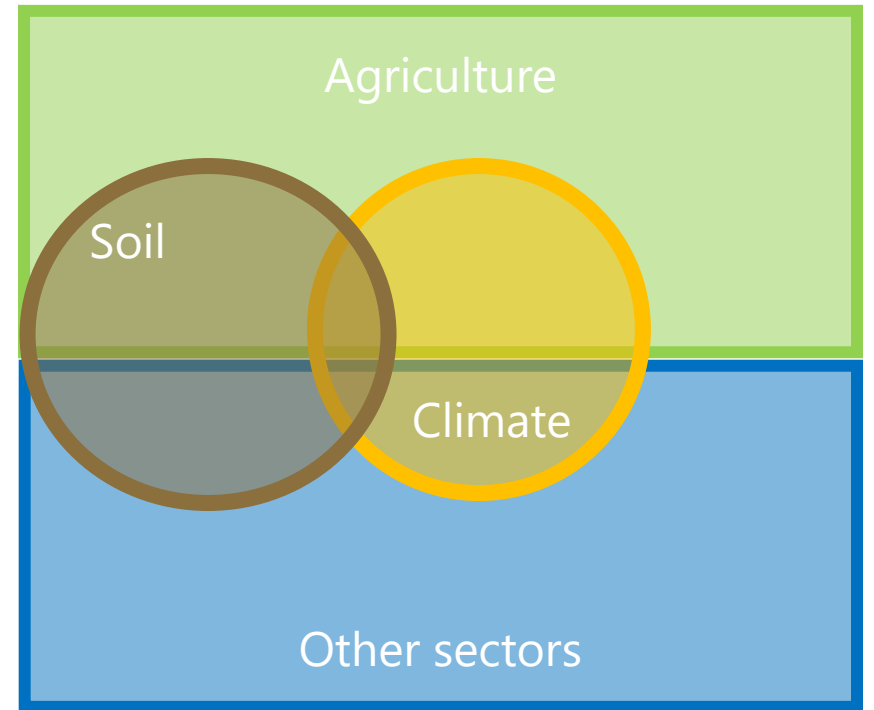
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Knowledge Landscape for Sustainable Soil Management



Position and role

Content and sectors





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Our speakers

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Dr. Amanda Matson

Senior researcher

*Wageningen Environmental
Research*



**Javier Montellano
López**

Project Manager

*NBSOIL (Nature Based
solutions for SOIL
Management) project*



Diogo Moniz

Consultant, Research and
Innovation Consultant

EU-level Cooperation and
National Coordinator in Climate
Smart Advisors



Luis Orcaray

Advisor and Transfer Manager

*Instituto Navarro de Tecnologías e
Infraestructuras Agroalimentarias*



Maria Mendonça

Consultant, Research and
Innovation in CONSULAI

Leader of EU-level
cooperation in Climate
Smart Advisors



**Juan Pedro Romero
Trueba**

Head of Training & Tech at
Spanish Ministry of Agriculture,
Fisheries and Food.

Ambassador of EU-FarmBook

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Advisory Services



Luis Orcaray

Advisor and Transfer Manager

*Instituto Navarro de Tecnologías e
Infraestructuras Agroalimentarias*

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Instituto Navarro de Tecnologías e Infraestructuras Agroalimentarias (INTIA)

- Public company from the Government of Navarra
- Public advisory service
- 210 employees. 43 advisors
- Service to 49 cooperatives: 11.400 farmers
- 9 experimental sites, 215 trials
- 23 R&D projects (14 European)
- 78 training sessions (1.184 h, 1.838 attendees)

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Background of Advisors (Spain)

Integrated Pest Management Advisor

1. Since 2012
2. Official Producers and Operators Register
3. Bachelor`s degrees, higher engineering degrees, technical engineering degrees, master`s degrees and higher vocational training degrees, which include at least 40 ECTS in subjects directly related to plant production

Fertilisation Advisor

1. From 2026
2. General Register of Manufacturers and other Operators of Fertiliser Products
3. Bachelor`s degrees, higher engineering degrees, technical engineering degrees, master`s degrees and higher vocational training degrees, which include at least 40 ECTS in subjects directly related soil and fertilization



Types of suppliers of advisory services in Europe

Public

In Eastern Europe prevail mixed public/private systems

Private

The Netherlands and Latvia

Farmers-based organisations

Mainly in Western Europe countries

What do soil advisors expect from researchers?

Topics

1. Economic studies of soil management strategies
2. Agricultural techniques adapted to local/regional agroclimatic conditions
3. Real-time nutrient sensors
4. Effect of rotation in the soil and in the next crop
5. Information on effectiveness of biostimulants and biofertilizers
6. Easy to measure soil biological indicators
7. Effect of green fertilizers on soil quality and nutrients and their management in crop rotations. Adapted to local conditions.
8. Soil mineralization adapted to local/regional agroclimatic conditions
9. Effect of organic fertilisers in crop nutrition and soil quality
10. Minor crops nutrient extractions
11. Long-term trials



What do soil advisors expect from researchers?

Transfer materials

1. Places to test strategies of soil management (living labs, lighthouses)
2. Videos with successful stories
3. Simple digital tool to calculate fertilisation plans
4. Simplified scientific papers: specific section with applied results
5. Easy to access platforms with soil information
6. A practical guide to measure soil fertility at the field site.
7. Simple guides to understand quality indicators (biological, physical, chemical)

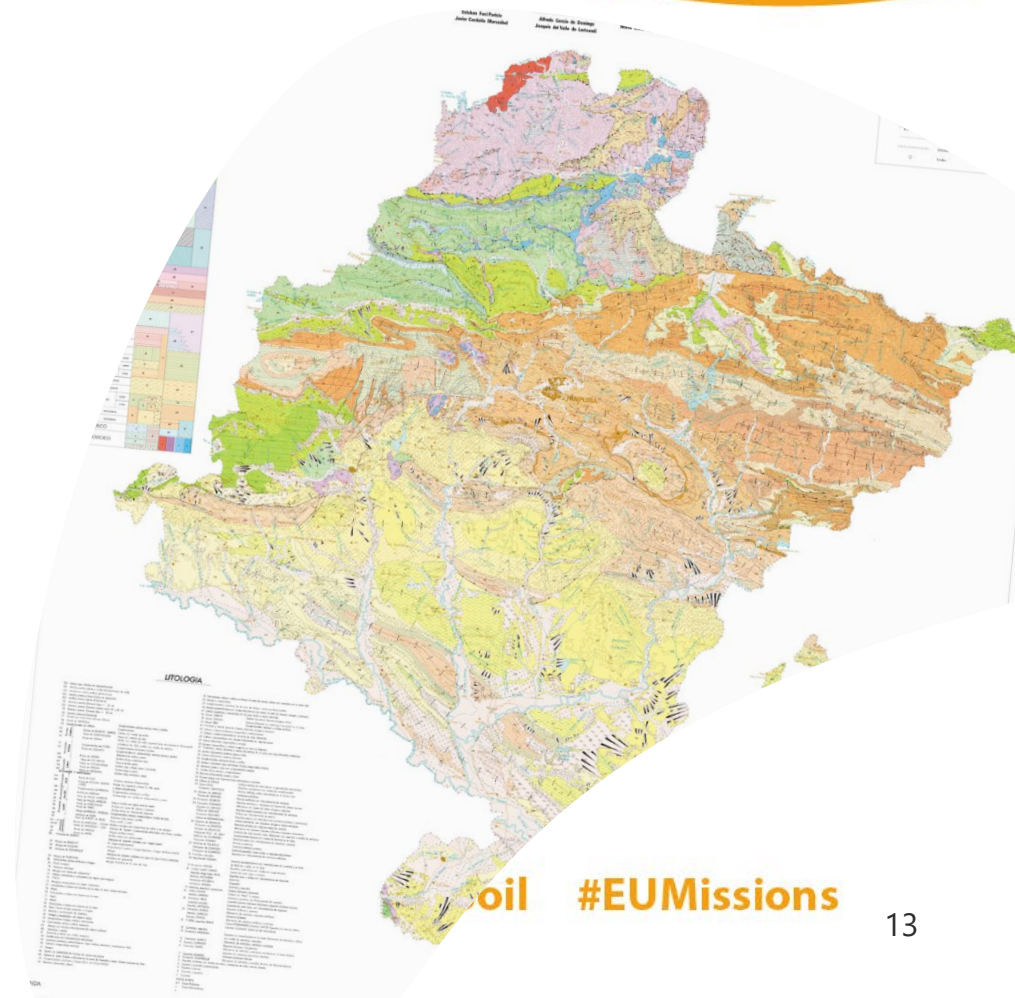
Advisory methods

1. Training in soft skills
2. Methodology to facilitate groups of farmers
3. Training in holistic approach to soil management



What do soil advisors expect from politicians?

1. Development of soil maps
2. Reduce administrative burdens
3. Protect agricultural soil against non-agricultural uses of land





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Thank you!

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Telephone: +34 948013040

Website: mission-soil-platform.ec.europa.eu



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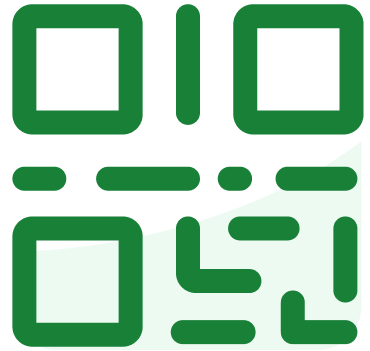
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**Join at slido.com
#ESMW2023**

ⓘ Start presenting to display the joining instructions on this slide.

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Who is present in the audience? (Choose one description that fits you best.)

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What was your main interest in joining this session? (Choose one)

ⓘ Start presenting to display the poll results on this slide.



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EJP SOIL knowledge transfer – a participatory approach

Dr. Amanda Matson

Senior researcher, Wageningen Environmental Research

November 22, 2023



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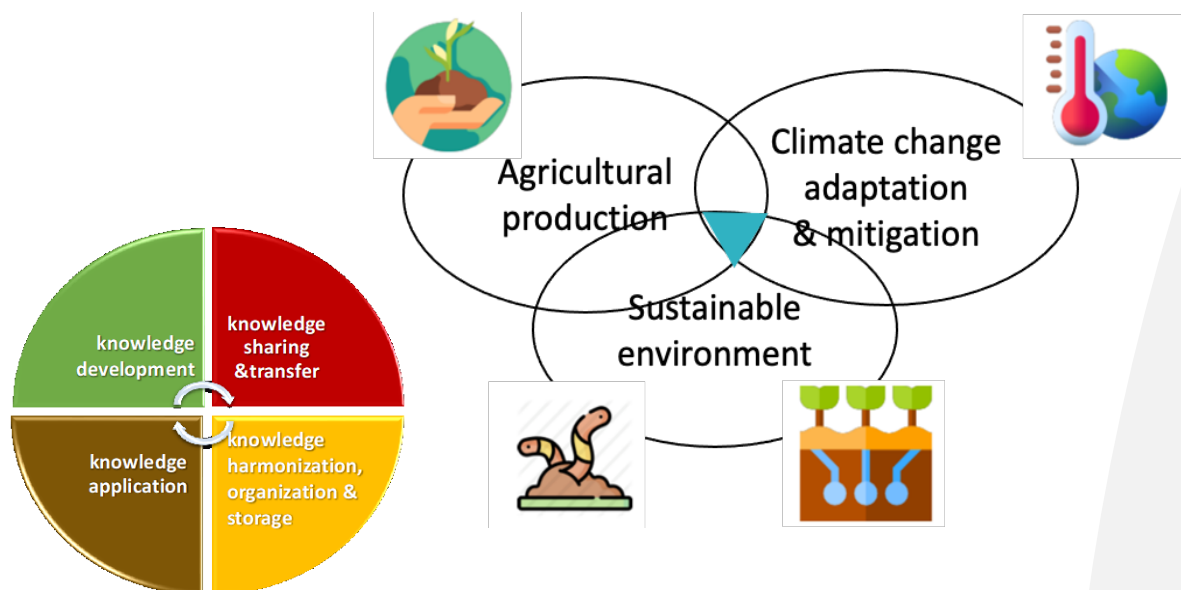


WAGENINGEN UNIVERSITY & RESEARCH

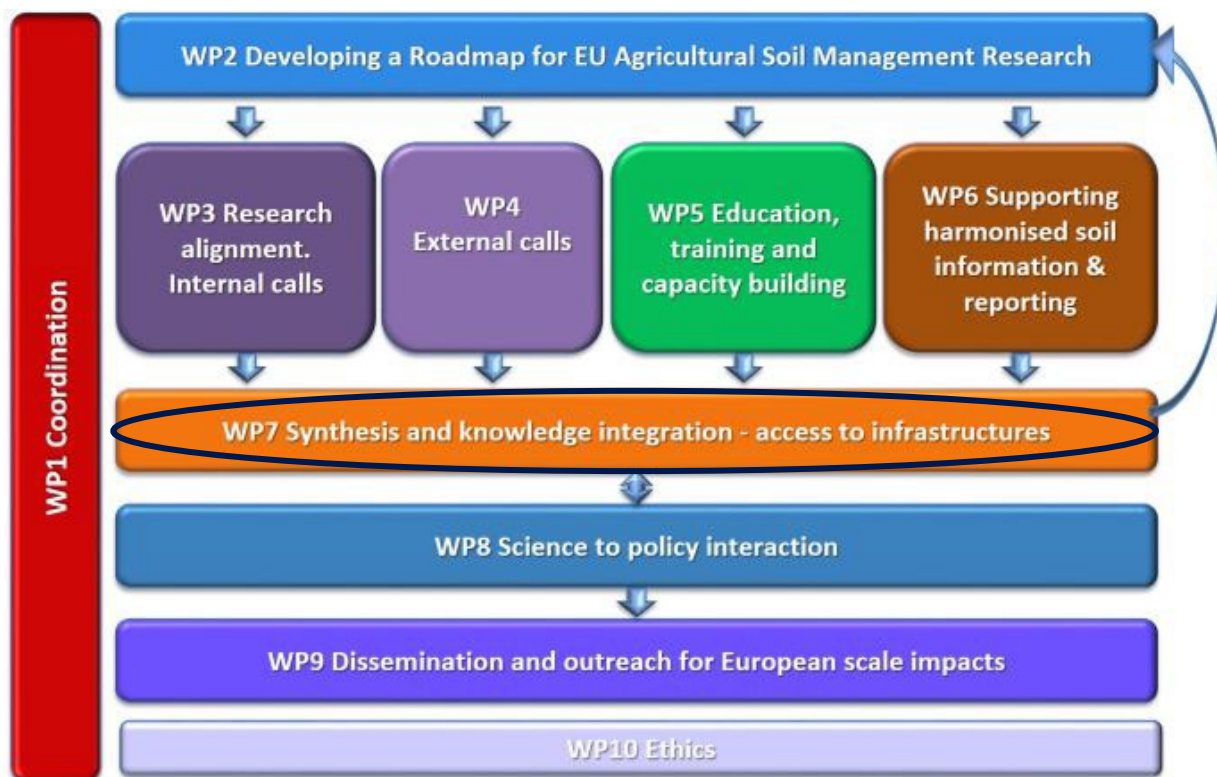


EJP SOIL - Towards climate-smart sustainable management of agricultural soils

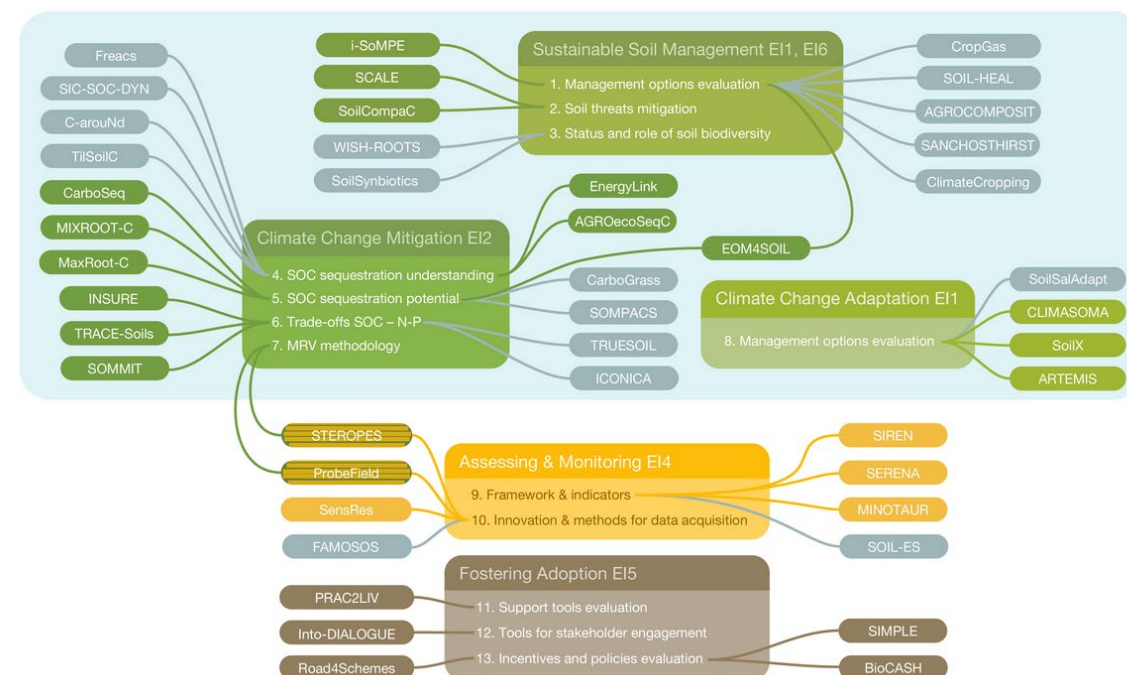
- European Joint Programme on Agricultural Soil Management
- 26 partners from 24 European countries



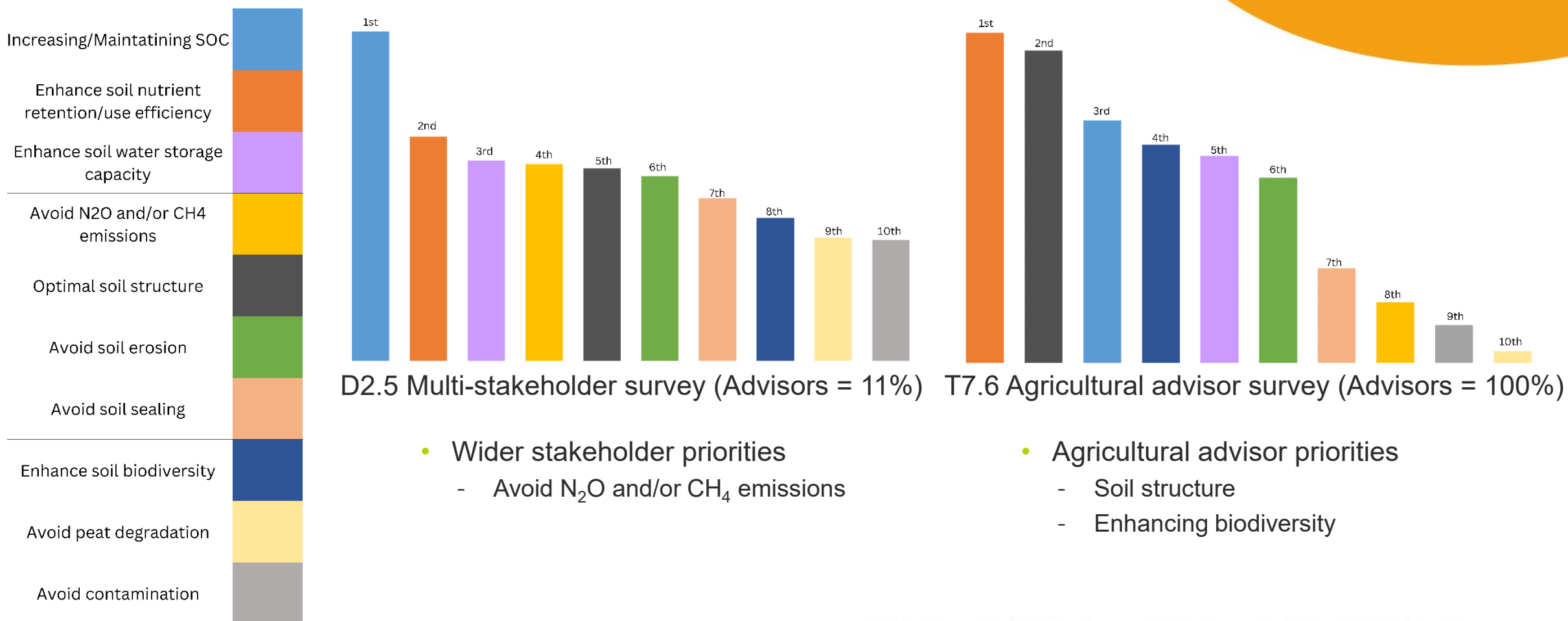
EJP SOIL WP7 - Synthesis and knowledge integration



Landscape of EJP SOIL research projects



Knowledge priorities differ between stakeholder groups



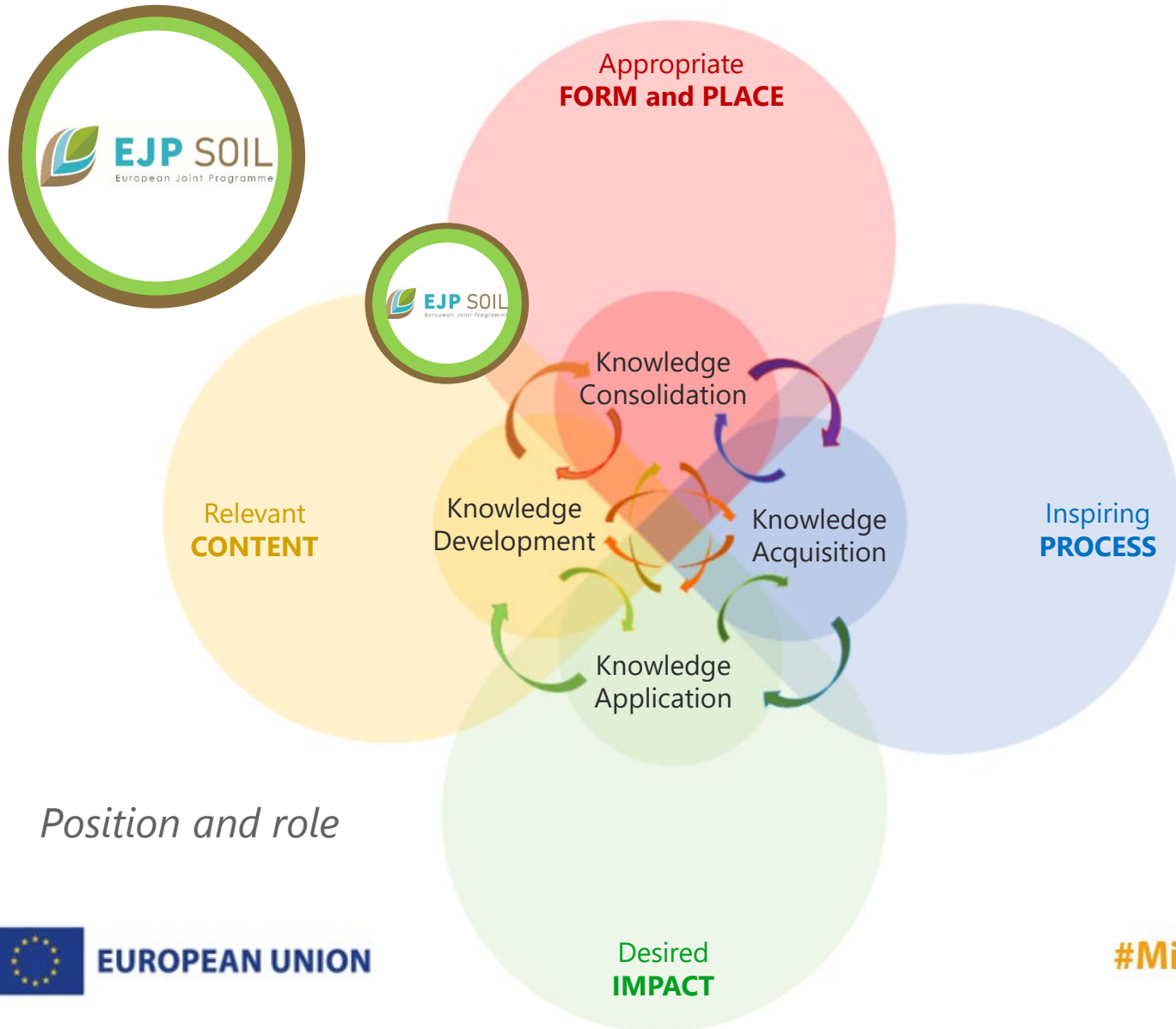
Supporting sustainable soil management advice

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- Joint assessment of soil knowledge and tools needed to support sustainable soil management
- What are advisors doing now? What tools, information, training, datasets, etc. would be useful for them?
- How can activities within EJP SOIL support the advisory community?

EJP SOIL (T7.6) in the Knowledge Landscape

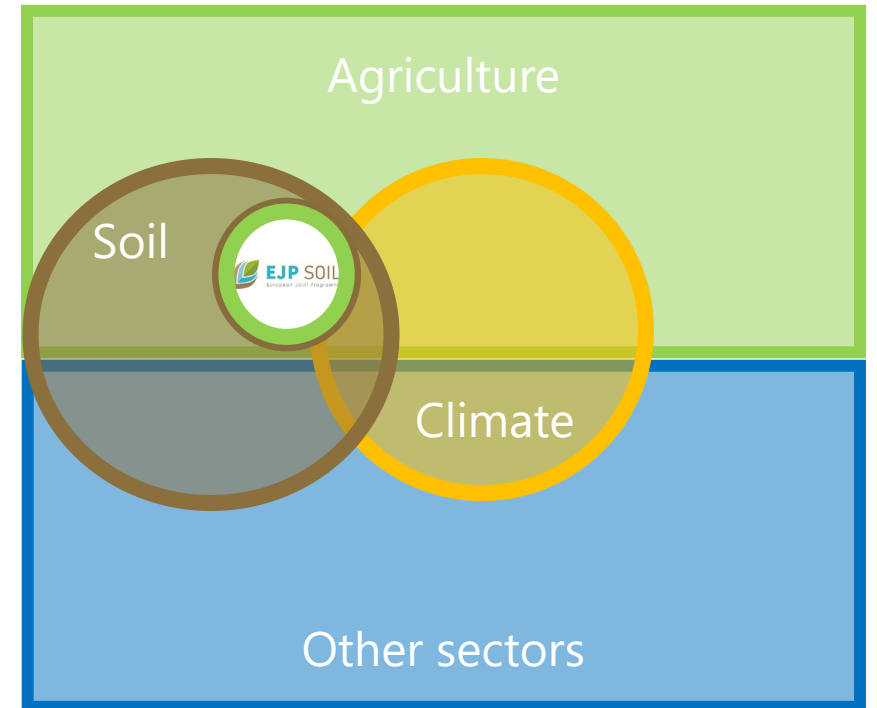


Position and role



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Content and sectors



Matching identified needs to potential outputs

	Advisor-identified needs	Project	Potential EJP SOIL outputs
BIODIVERSITY			
Awareness: Practical information	training of farmers for what biodiversity does	SERENA	Field guides to help understand soil
Awareness: Practical information	information on soil contamination and the effect on soil life	SERENA	Field guides to help understand soil
Awareness: Practical information	information on soil contamination and the effect on soil life	EOM4SOIL WP5	soil contamination when using EOM; new information about plastic contamination
Visibility: Indicators	non-technical information on soil life	Road4Schemes	description of initiatives in Europe where there are some soil carbon farming in place with or without a certification scheme. Who is be
Visibility: Indicators	local threshold/limits of indicators, to indicate the quality of the soil	EOM4SOIL	Database of characteristics of EOM in different countries including C, N
Visibility: Indicators	local threshold/limits of indicators, to indicate the quality of the soil	D6.2	indicators for several soil threats across EU
Visibility: Indicators	need of set of functional indicators	EOM4SOIL	Database of characteristics of EOM in different countries including C, N
Visibility: Indicators	need of set of functional indicators	D6.2	indicators for several soil threats across EU
Visibility: Tools to measure and monitor	monitoring is based on agricultural areas	SOILCompac	Site-specific thresholds for max. wheel-load of farm machinery
Visibility: Sampling	low price for soil analysis are necessary	SERENA + MINOTAUR	soil health indications declined at national and regional levels. Through interaction with stakeholders: (i) region-specific, (ii) threshold
Decision: Decision support	lack of scientific knowledge, what works well, what doesn't, interpreta	SERENA + MINOTAUR	soil health indications declined at national and regional levels. Through interaction with stakeholders: (i) region-specific, (ii) threshold
SOIL STRUCTURE			
Data: data base	soil data base	SERENA + MINOTAUR	soil health indications declined at national and regional levels. Through interaction with stakeholders: (i) region-specific, (ii) threshold
	soil data base	SOILCompac	soil structure ABC: various visual methods available (with pics)
	soil data base	Databases WP7 T7.3	Database on 246 Long-term experiments in Europe and associated meta-data
	soil data base	WP6 T6.5	Soil indicator maps combining LUCAS and national datasets
Awareness: Practical information	no-till may not be good for all farmers, lack of knowledge	SOMMIT (WP2)	meta-anlysis: soil tillage vs conservation tillage for N2O emissions and effects of different amendments for fertilization
Visibility: Tools to measure and monitor	curve, quantitative test to show the effects of low carbon	CarboSeq	clear definitions of SOC-increasing measures
Visibility: Tools to measure and monitor	demonstrations to show impact of heavy rain falls etc.	SERENA	demonstrations
Visibility: Tools to measure and monitor	demonstrations to show impact of heavy rain falls etc.	WP9	we have prepared short movies about soil sampling protocol and about structure stability (rain test - comparison between plough tillage
Visibility: Tools to measure and monitor	connection between biodiversity, structure, water; tools to evaluate so	PRAC2LIV	Overview of most important decision support tools for SOC, nutrient efficiency and soil water retention
	connection between biodiversity, structure, water; tools to evaluate so	ARTEMIS	nutrient management in different farming systems
	connection between biodiversity, structure, water; tools to evaluate so	HABITAR-SI	Effects of cover cropping and trees on soil pore size distribution, biological properties
	connection between biodiversity, structure, water; tools to evaluate so	Climasoma	Benefits of organic amendments, no tillage and cover crops for soil bulk density, water availability and erosion
Visibility: Tools to measure and monitor	organic carbon decreases, conservative agriculture is gaining popularity	PRAC2LIV	Overview of most important decision support tools for SOC, nutrient efficiency and soil water retention
	organic carbon decreases, conservative agriculture is gaining popularity	CarboSeq	clear definitions of SOC-increasing measures
	organic carbon decreases, conservative agriculture is gaining popularity	ARTEMIS	nutrient management in different farming systems
CARBON			
Awareness: Practical information	low-till is not for every situation	SOMMIT (WP2)	meta-anlysis: soil tillage vs conservation tillage for N2O emissions and effects of different amendments for fertilization
	low-till is not for every situation	Climasoma	Benefits of organic amendments, no tillage and cover crops for soil bulk density, water availability and erosion
Awareness: Practical information	examples that it is possible to improve soil carbon	SERENA + MINOTAUR	soil health indications declined at national and regional levels. Through interaction with stakeholders: (i) region-specific, (ii) threshold
	examples that it is possible to improve soil carbon	EOM4SOIL	Database of characteristics of EOM in different countries including C, N
NUTRIENTS			
Awareness: Practical information	lack of info on plant nutrition connection to soil biota, and the effects o	SoilSalAdapt	Test salt water irrigation as viable option for farmers. Evaluating crop yield, soil microbes
	lack of info on plant nutrition connection to soil biota, and the effects o	AgroecoSeqC	Estimation of plant nutrient demand from biomass sampling, plant nutrient uptake efficiency data
	lack of info on plant nutrition connection to soil biota, and the effects o	HABITAR-SI	Effects of cover cropping and trees on soil pore size distribution, biological properties
	lack of info on plant nutrition connection to soil biota, and the effects o	Climasoma	Benefits of organic amendments, no tillage and cover crops for soil bulk density, water availability and erosion
GENERAL			
Visibility: Tools to measure and monitor	demonstrations of tools, practices to allow farmers to learn the techniq	SERENA	Field guides to help understand soil

- *What do advisors want?*
- *What does EJP SOIL have?*
- *How to support knowledge transfer?*

Supporting the development of knowledge objects

Phase 1: finding synergies between advisors and research

Outcome: advisor-identified knowledge gaps and expected or potential knowledge objects from one or more EJP SOIL projects (*content*)

Phase 2: co-creation of guidelines for knowledge transfer

Ongoing: with Dr. Maria Hernandez-Soriano (EJP SOIL project: WISH-ROOTS), create an example knowledge object and distill that process into general guidelines (*form*)

Phase 3: build knowledge base for soil stewardship

Planned: using the guidelines, and in collaboration with EU Farmbook, facilitate the consolidation of advisor-specific knowledge from EJP SOIL projects (*form/place*)

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**How do you think the proposed Soil Monitoring Directive will affect farm advisors and their knowledge needs?
What additional/different knowledge objects would be required?**

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**NBSOIL (Nature Based solutions
for SOIL management)**

**HORIZON-MISS-2021-SOIL-02-08: Next
generation soil advisors.** Coordinated by
the Institute of Soil Science and Plant
Cultivation IUNG-PIB (PL)

Presented by Javier Montellano López (REVOLVE)



NBSOIL

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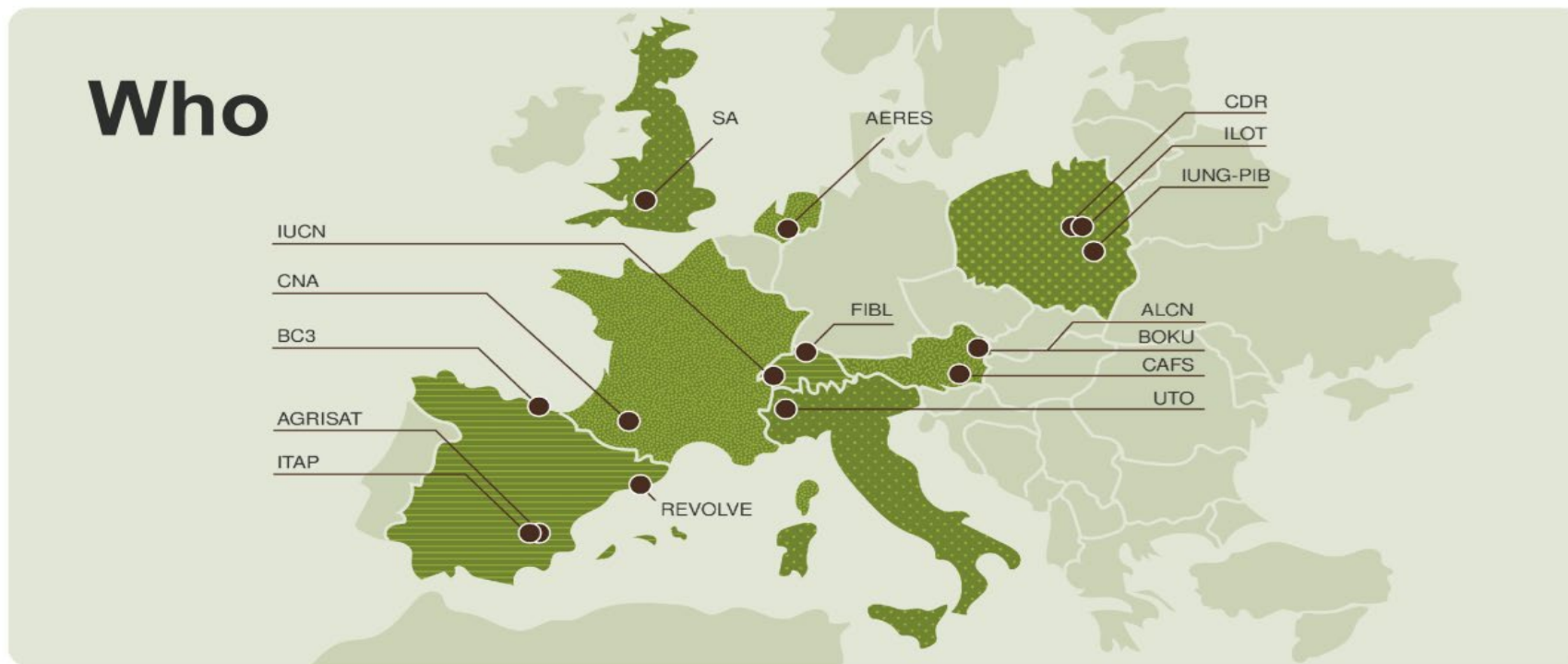
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NBSOIL

NBSOIL Partners

3



NBSOIL

NBSOIL will prototype a learning pathway for 300 existing and aspiring soil advisors.



The aim is to integrate in soil advice a portfolio of NBS solutions to address the main soil challenges across the main soil use sectors: agricultural, forestry, urban and (post)industrial.



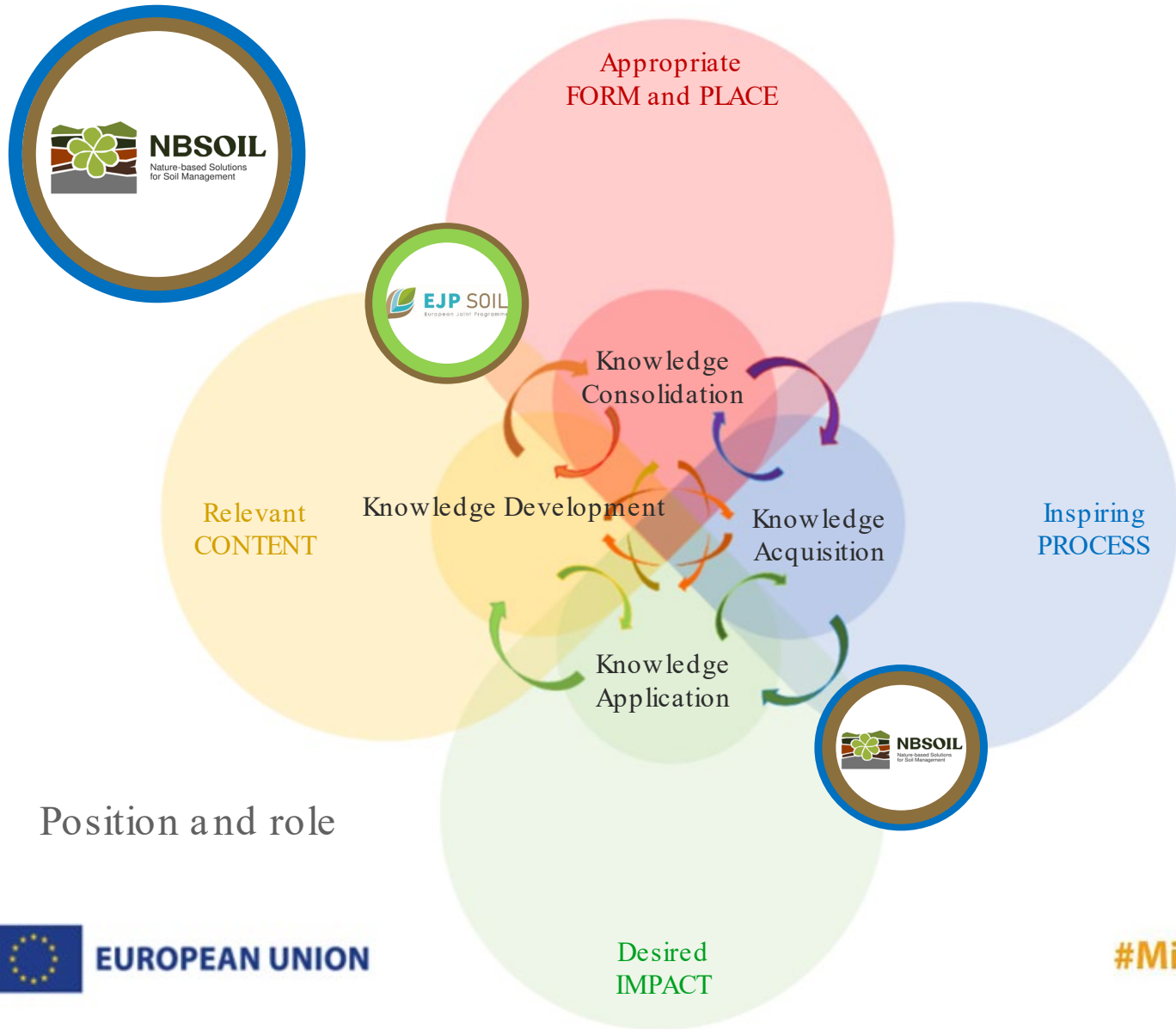
NBS are defined by the IUCN as...

actions to protect, sustainably manage, and restore natural and modified ecosystems that address societal challenges effectively and adaptively, simultaneously benefiting people and nature.

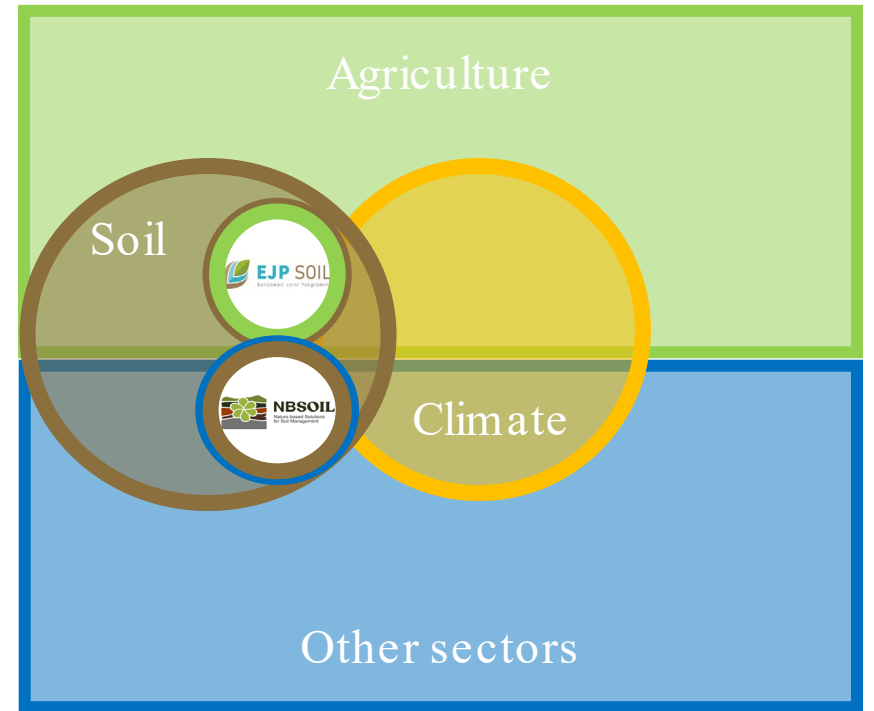
Nature-based Solutions address societal challenges through the protection, sustainable management and restoration of both natural and modified ecosystems, benefiting both biodiversity and human well-being.



NBSOIL in the Knowledge Landscape



Content and sectors





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The NBS Categories

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**Organic fertilisers
from locally
available
biowastes**



Bioremediation



Cover Crops

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The NBS Categories

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Forest
diversification
in age and
species



Paludiculture



Blue Green
Infrastructures

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Thank you!

For more info: <https://nbsoil.eu/>

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javier@revolve.media

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Which of the NBS innovations (on its own or combined) do you find more interesting for your context and why?

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Knowledge Acquisition

Knowledge Transfer to Advisors

22nd November 2023



Maria Mendonça

CONSULAI | Research and Innovation
Consultant

ClimateSmartAdvisors | EU-level
Cooperation and Climate Smart Coach



Diogo Moniz

CONSULAI | Research and
Innovation Consultant

ClimateSmartAdvisors | EU-level
Cooperation and National Coordinator

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Climate Smart Advisors

ClimateSmartAdvisors focuses on the **crucial role of advisors in the development and dissemination of CS innovations** in the wider agri-system.

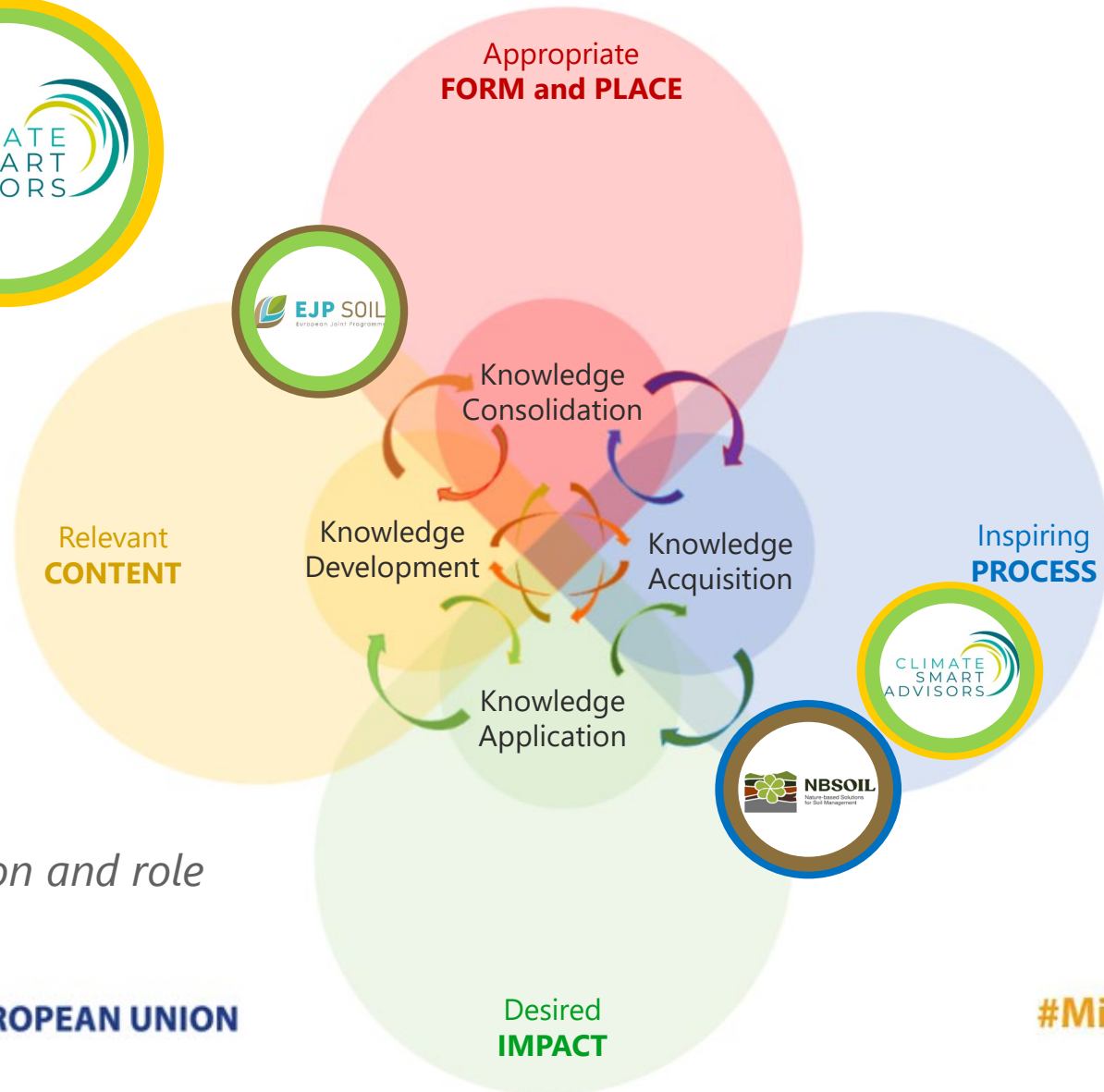
The project aims to **boost the role of agricultural advisors and advisory service providers (ASP):**

STRENGTHENING THEIR CAPACITY IN PROVIDING TARGETED ADVICE.

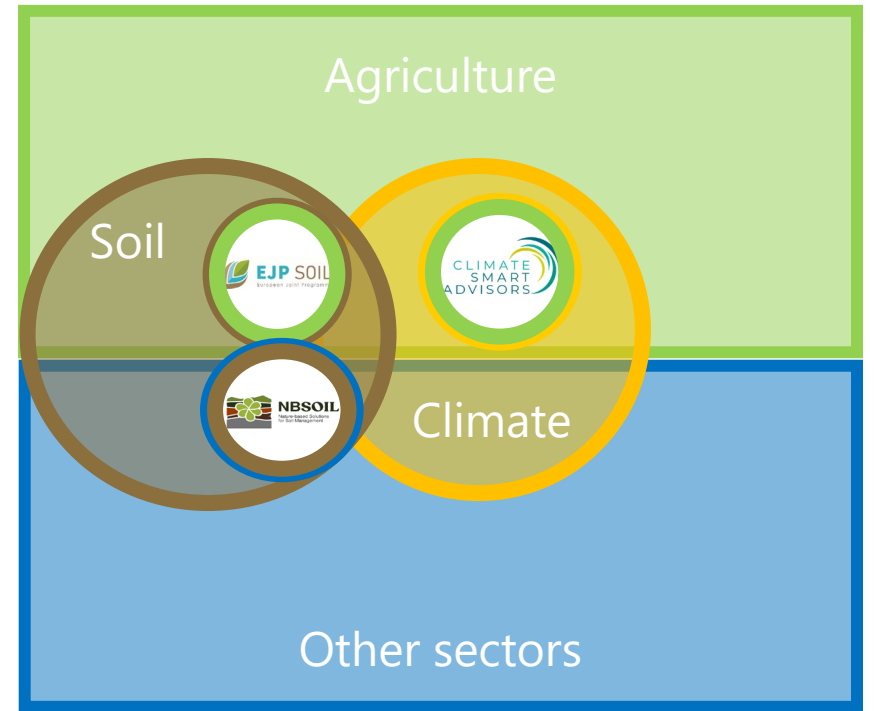
ACCELERATE THE ADOPTION OF CLIMATE SMART PRACTICES



Climate Smart Advisors in the Knowledge Landscape



Content and sectors



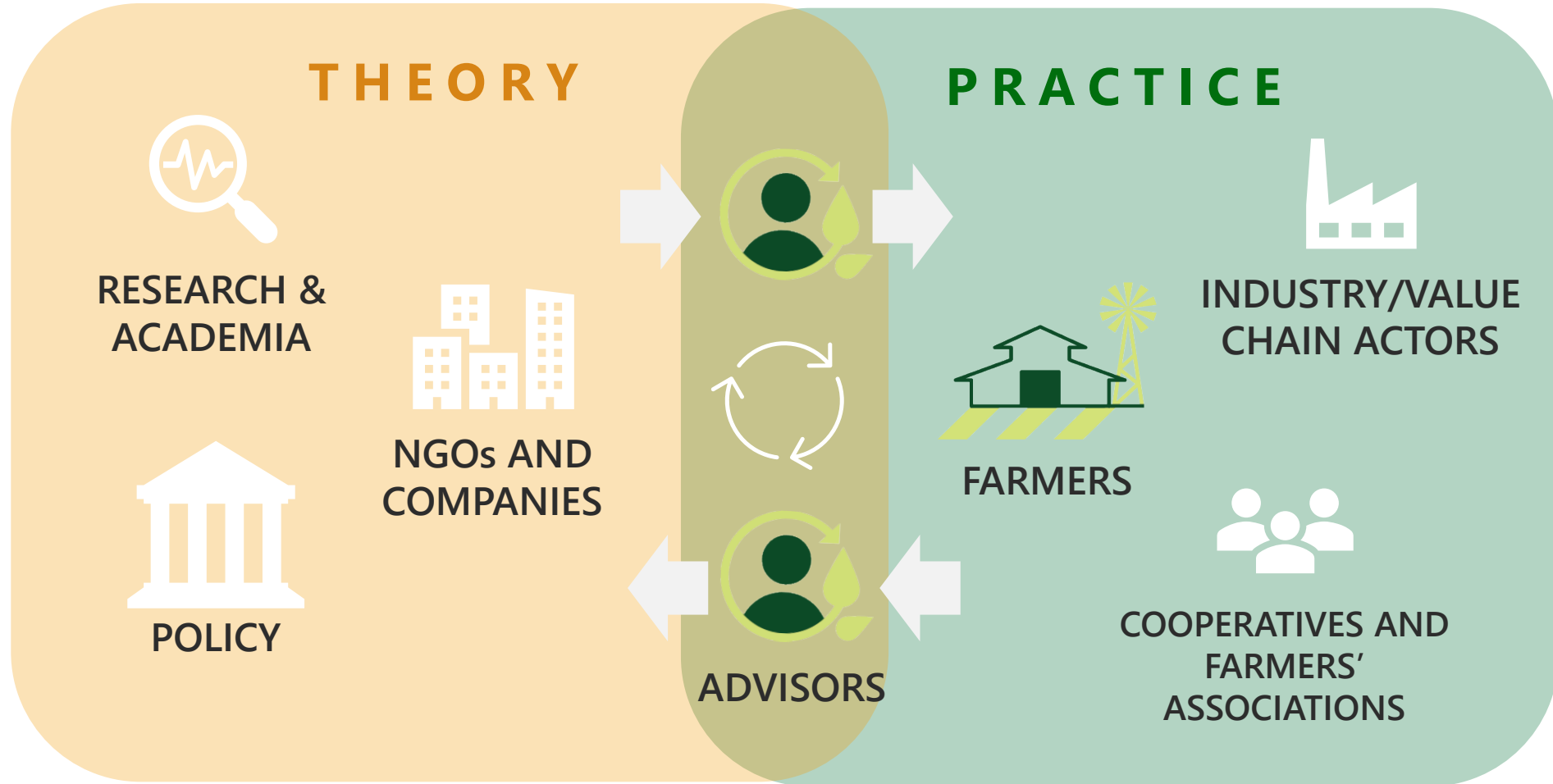
Position and role

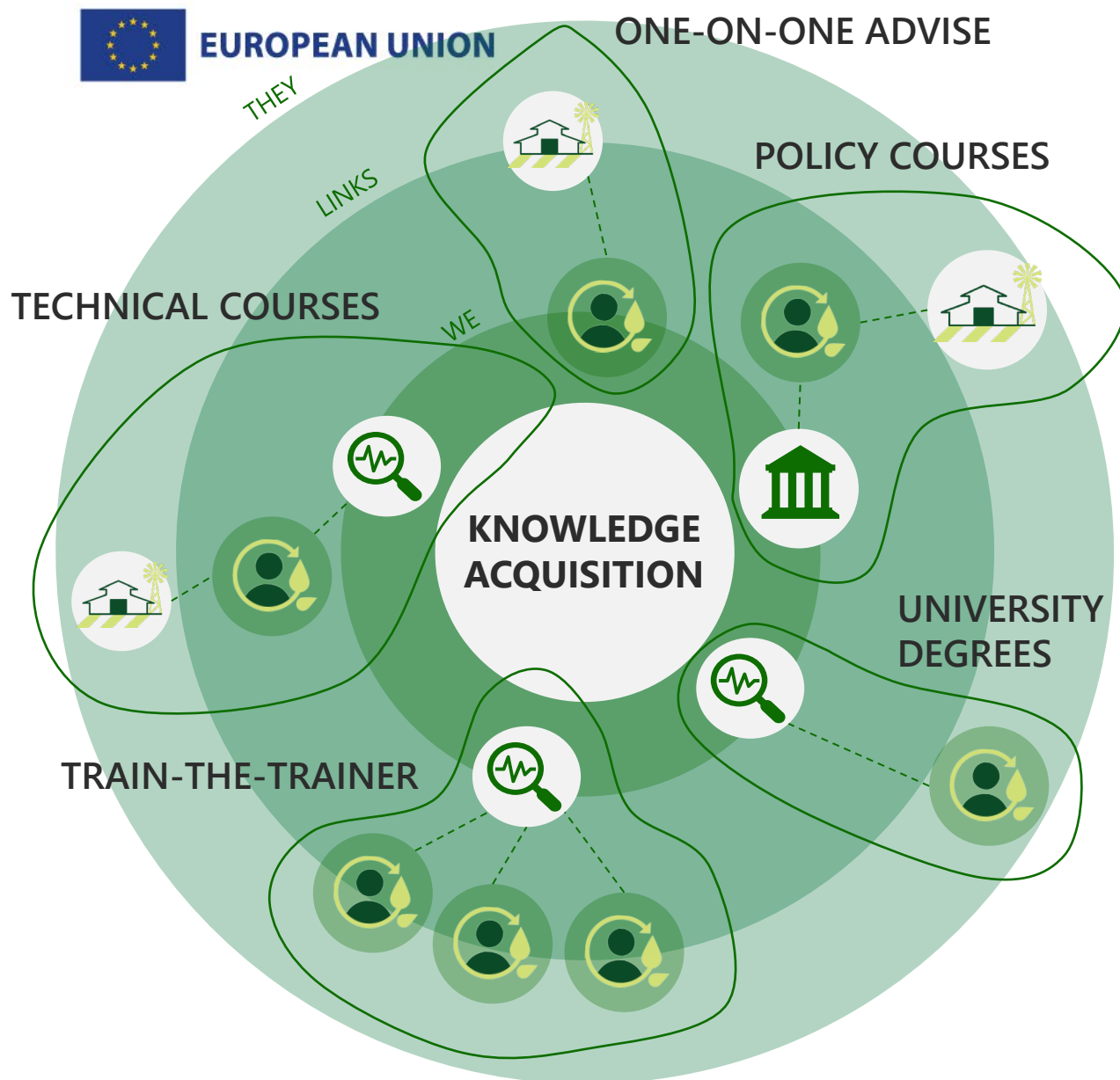


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AKIS





TOP-DOWN APPROACH

GOAL

Introduce new knowledge, practices, policy (...)

- The focus should be on **tangible solutions and tools**.
- Provides a **strong understanding of agricultural concepts**, creating structured foundation for advisors.

MAIN REASON | New hypothesis;

ADVISOR'S ROLE

Open-minded but pragmatic;

- Translate new and complex concepts into farmer's language.
 - Apply theoretical knowledge to real-world scenarios.
-



PEER-2-PEER APPROACH

GOAL

Peer-2-peer learning;

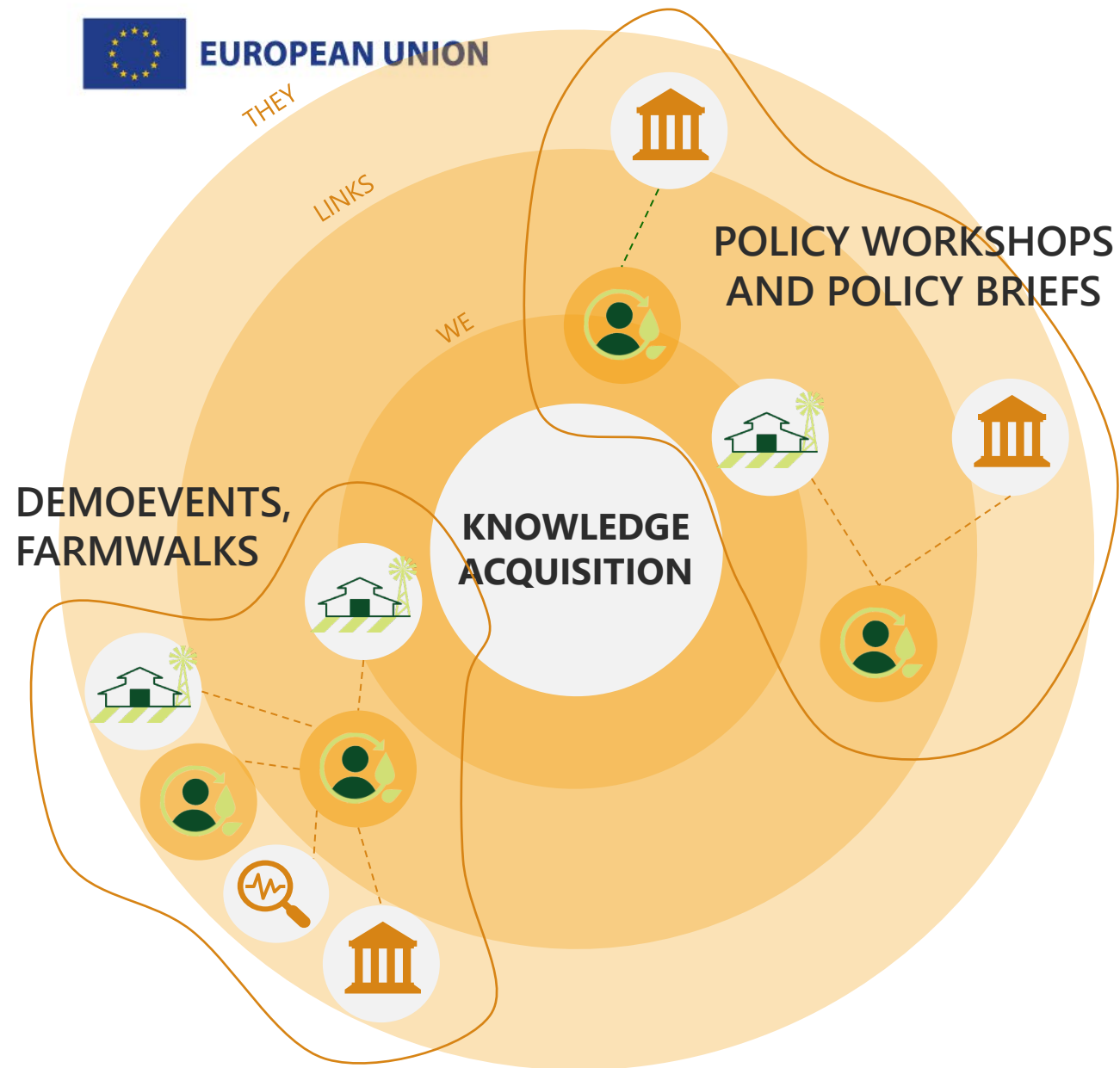
MAIN REASON

Sharing experiences, discuss common challenges;

ADVISOR'S ROLE

Reflective, collaborative, active listening, constructive feedback, respect for diversity;

- Establishing and managing the network;
 - Facilitating;
 - Sharing experiences and best practices, enhancing expertise and effectiveness;
-



BOTTOM-UP APPROACH

GOAL

Reduce the operational gap from practice to theory.

- Hands-on approach/Learn by doing;

MAIN REASON

Practical challenges (first on the scene, in implementing theory, etc.)

ADVISOR'S ROLE

Technical focus but profit-oriented.

- Giving the lead to the farmer.
- Bringing practical inputs from the farming community to policy/research organisms.
- Contribute to the relevance of researchers and academia work to real-world scenarios.



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THEMATIC KNOWLEDGE
EXCHANGE NETWORK

THEY

LINKS

WE

KNOWLEDGE
ACQUISITION

LIVING LABs, CoPs,
MIPs & CoDIEs

MULTI-ACTOR APPROACH

GOAL

Co-create, test, and implement solutions in real-world settings.

MAIN REASON

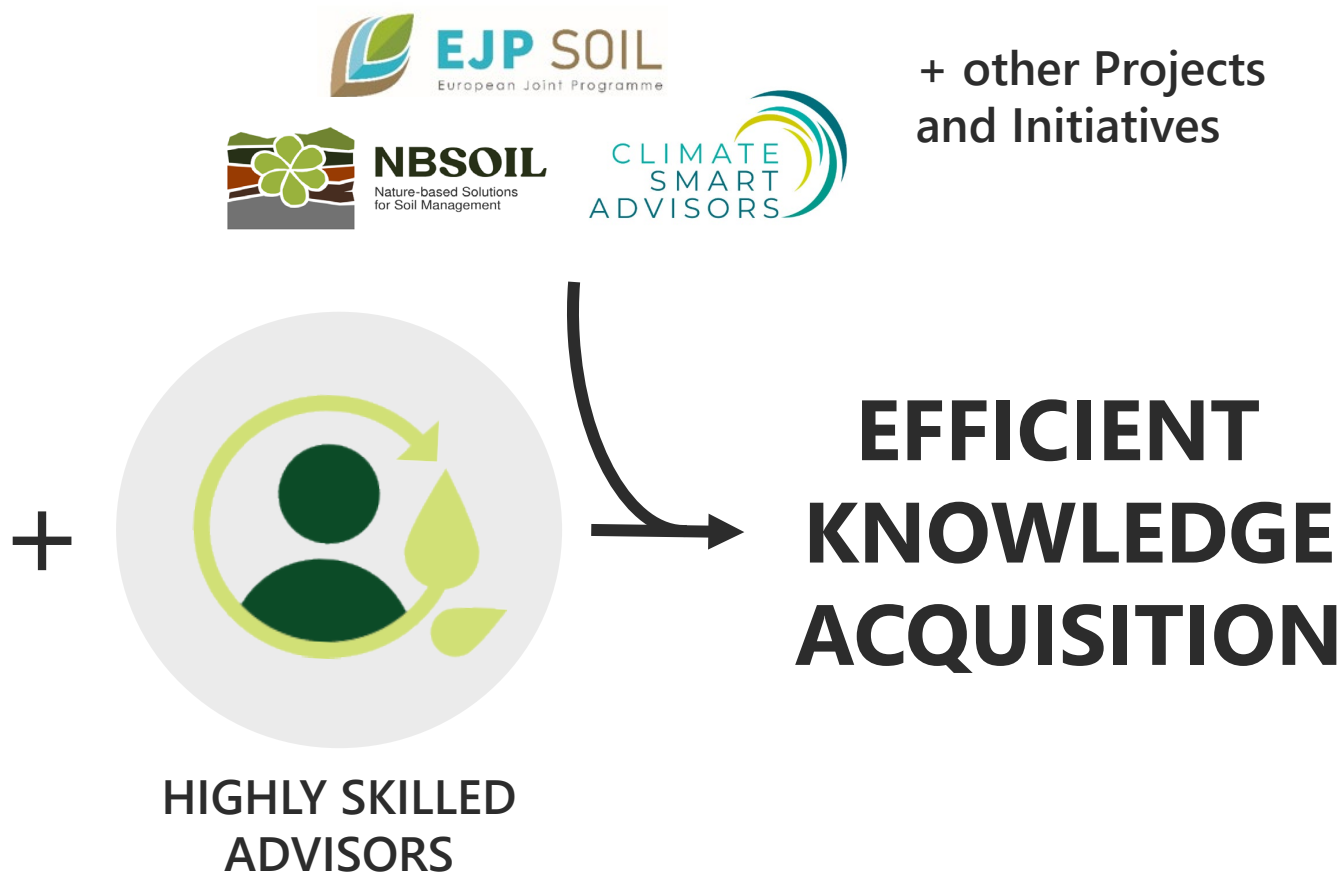
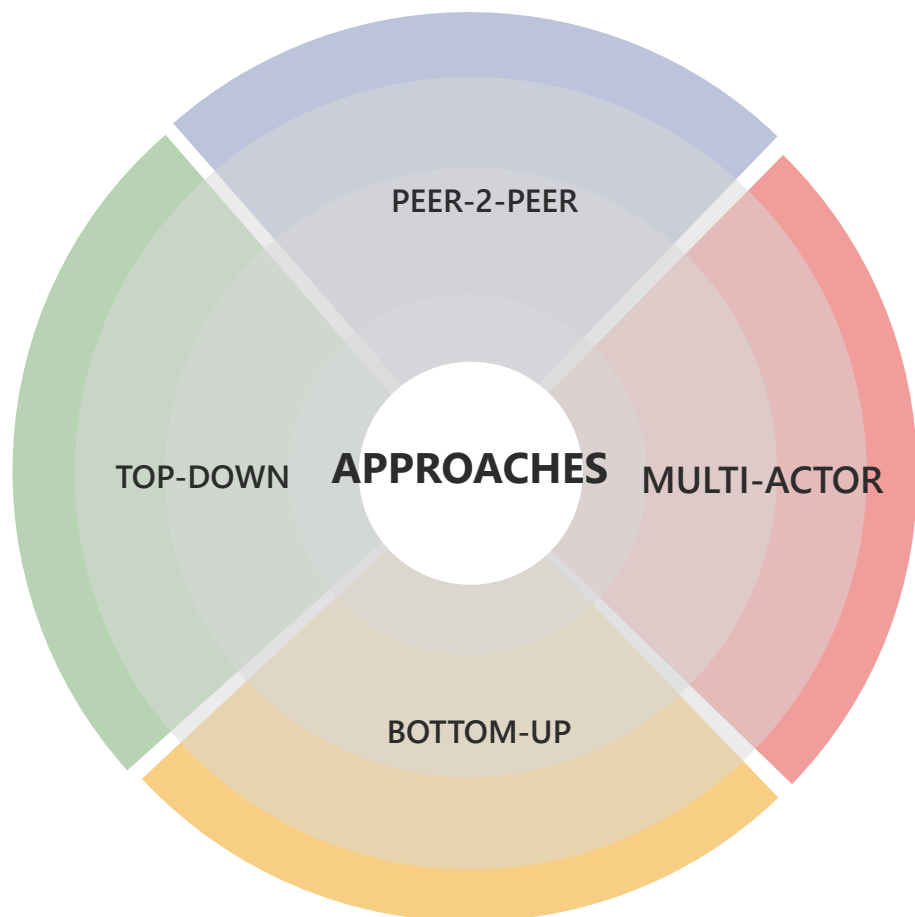
Tackle complex challenges together;

ADVISOR'S ROLE

Adaptable and Strong Communicator.

- Facilitate the interactions between the different stakeholders.
 - Bridge the gap between theory and practice.
-

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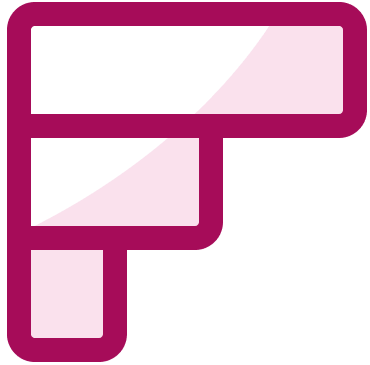
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**What type of knowledge exchange approach do you use the most?
(Please rank the approaches from most used to least used.)**

ⓘ Start presenting to display the poll results on this slide.

slido



What is missing for knowledge transfer to advisors, and how could advisors and/or the Climate Smart Advisors project contribute to those knowledge gaps?

① Start presenting to display the poll results on this slide.



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Knowledge transfer to farmers' advisors

Juan Pedro Romero Trueba

Head of Training & Tech.

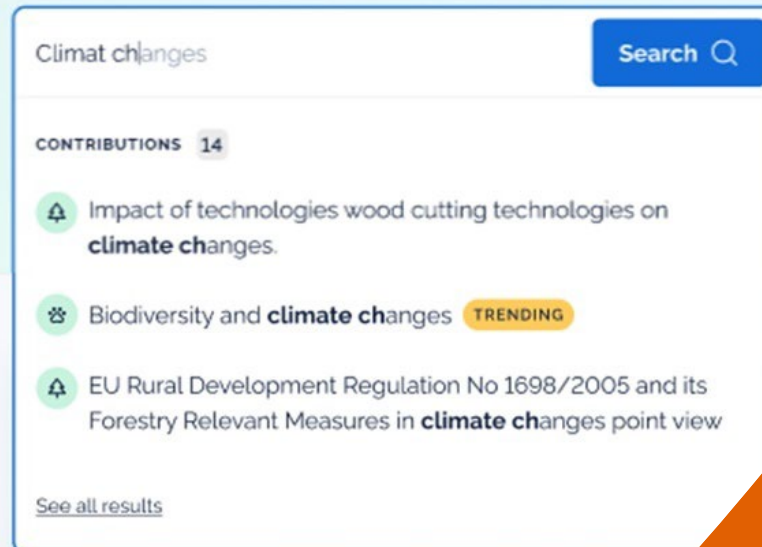
Ambassador of EU-FarmBook.



23/11/2023

EU-FarmBook

Empowering European agriculture through EU-funded research and innovation.



advisors. Users can interact with and explore innovative ways to address their daily challenges on our multi-lingual meeting platform for agriculture and forestry communities.

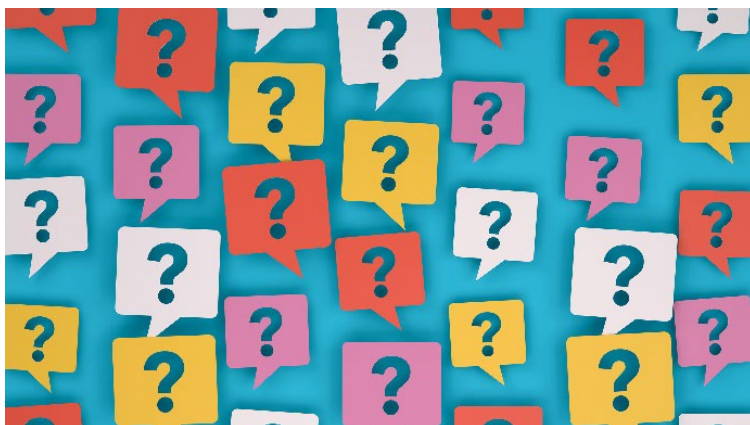
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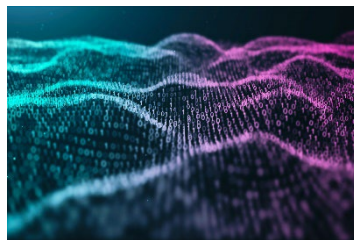


Dissemination and communication is a MUST

Horizon and EIP-Agri projects are required to disseminate and communicate their results.



What is happening when that project ends?



Suddenly knowledge transfer stops.



Can all the outputs of research and innovation projects, funded by the European Union, be brought together in a platform?



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EU-FarmBook

EU-FarmBook is an HEU project developing an online “platform” that will:

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Ensure practical outcomes from multi-actor projects are readily available and easily findable for all relevant (end-) users
(dissemination)



Speed up the application/ use of practical outcomes from multi-actor projects by (end-) users
(exploitation)



Embed the practical outcomes from multi-actor projects into the ‘knowledge networks’ and decision-making of (end-) users
(impact)

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EU-FarmBook

Consortium

18

COUNTRIES

29

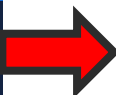
PARTNERS

17

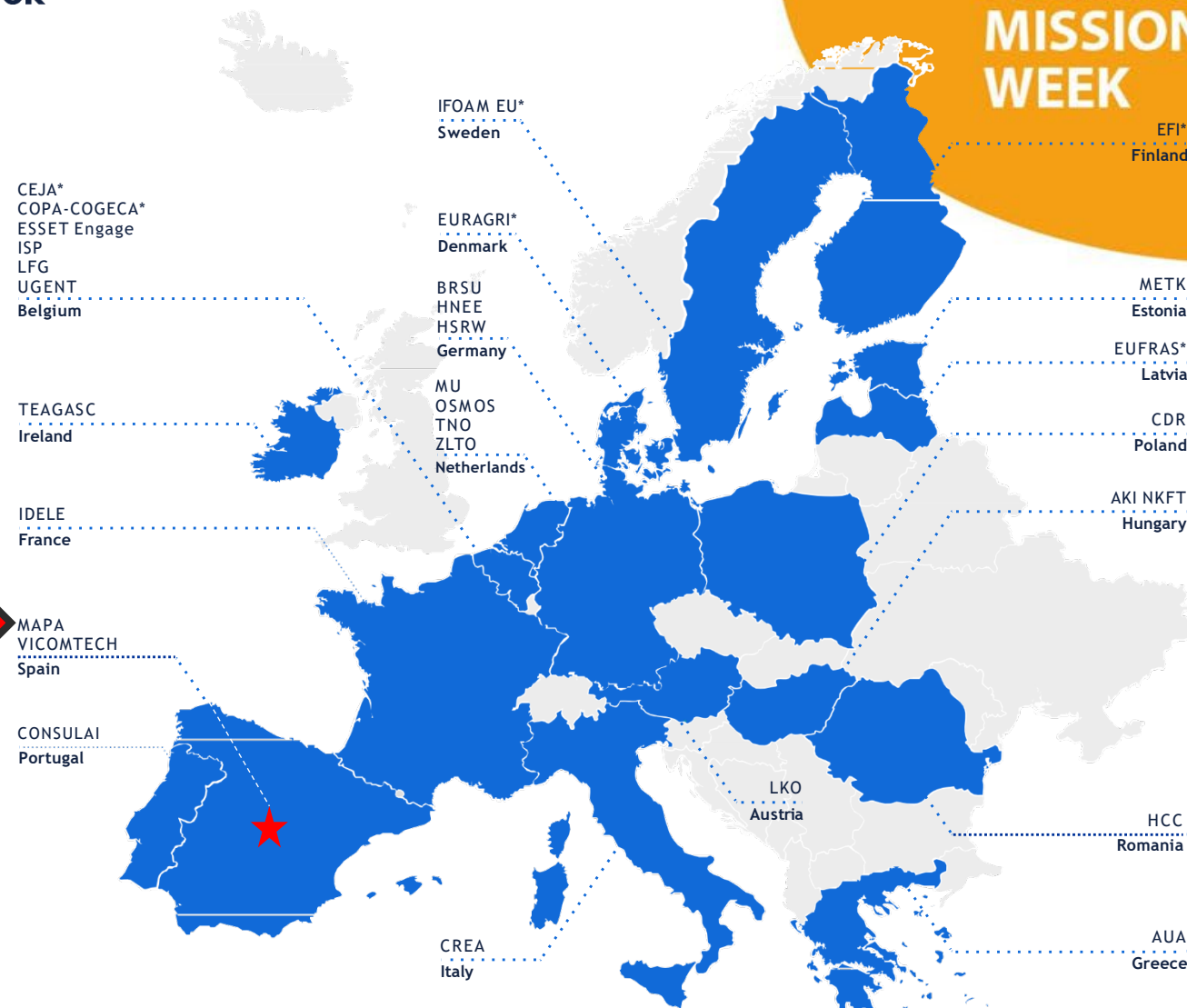
NETWORK ORGANIZATIONS

07

YEAR PROJECT
2022-2029



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*European Organizations with their head offices indicated in the map

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EU-FarmBook

The EU-FarmBook platform is coming soon...



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EU-FarmBook

Empowering European agriculture through EU-funded research and innovation.



Climat changes

Search

CONTRIBUTIONS 14

- Impact of technologies wood cutting technologies on climate changes.
- Biodiversity and climate changes **TRENDING**
- EU Rural Development Regulation No 1698/2005 and its Forestry Relevant Measures in climate changes point view

See all results

advisors. Users can interact with and explore innovative ways to solve their daily challenges on our multi-lingual meeting place for agriculture and forestry communities.

Learn more



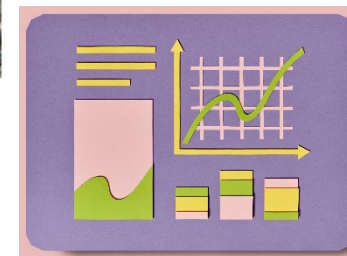
Contribute to EU-FarmBook

The content of this platform is built by a community of researches and contributors. If you want to be part of this community and submit your own research to this platform, you can click the button to learn more about becoming a contributor.

See the steps



Mixed project of soil regeneration and water harvesting 45Ha



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EU-FarmBook

...and this is what you can expect





FEATURES

-  Free maintenance-hosting and open access.
-  Dedicated domain.
-  Platform funded, endorsed and (eventually) owned by the EC.
-  Project visibility and findability.
-  Contact Centre.
-  Easy upload process.
-  Integration of a broad range of practice-oriented materials.
-  Licencing to respect authors' rights.



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REQUIREMENTS

-  Focus on needs of advisors, farmers, foresters and other rural actors.
-  Practice-oriented materials derived from EU-funded projects
-  FAIR Data Principles → additional 'metadata' is needed
-  A 'Contributor Agreement'

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Repository of Knowledge Objects

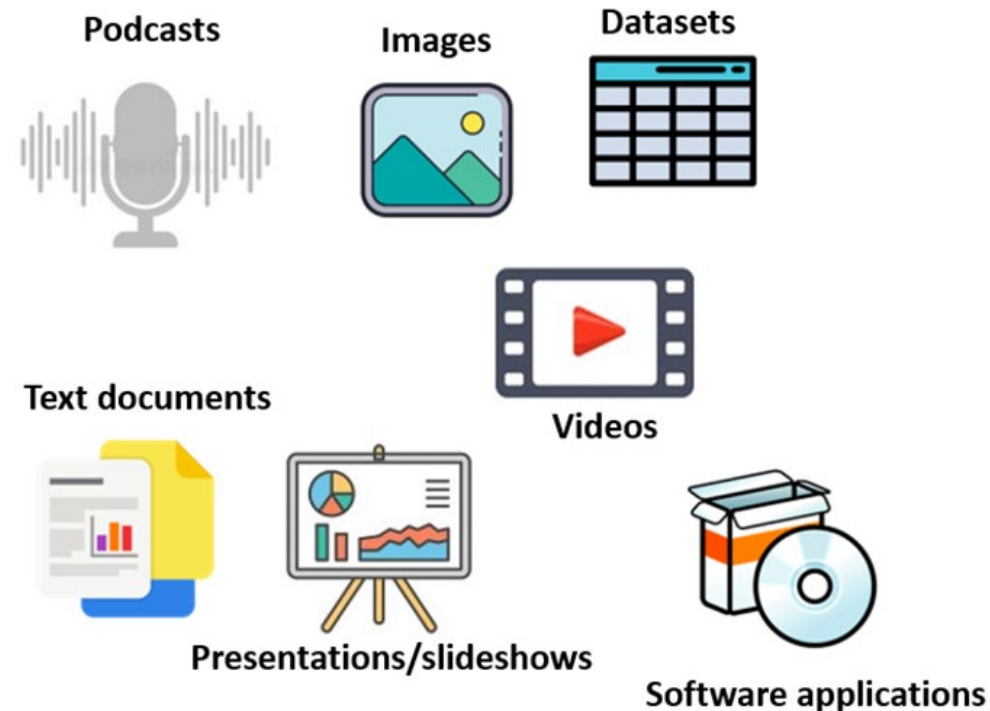


The point of reference of farmers,
foresters and advisors



Practice orientated
Knowledge Objects

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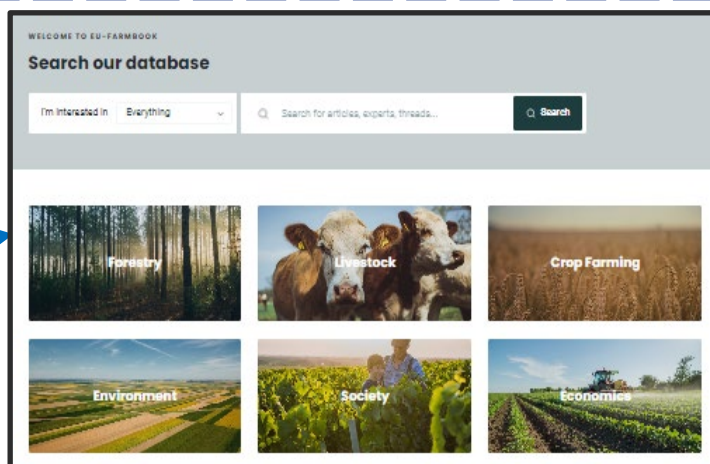


EU-FarmBook

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Contributing to your 'project impact pathway'

Various uploading strategies for **contributing** practice-orientated material to the EU-FarmBook



Final (end-) users **directly access the content** of the EU-FarmBook

National/ regional level intermediaries **access and process the content** of EU-FarmBook for final (end-) users

→ **advisors**, consultants, trainers, teachers, lecturers, journalists and other relevant knowledge brokers'

Consortium partners **promote use** of the EU-FarmBook within their own organisation and/ or other organisations at EU, national and regional levels

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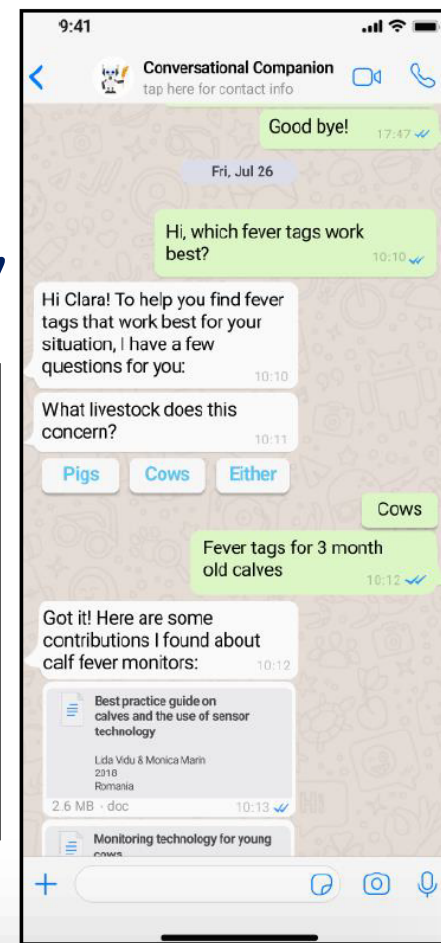
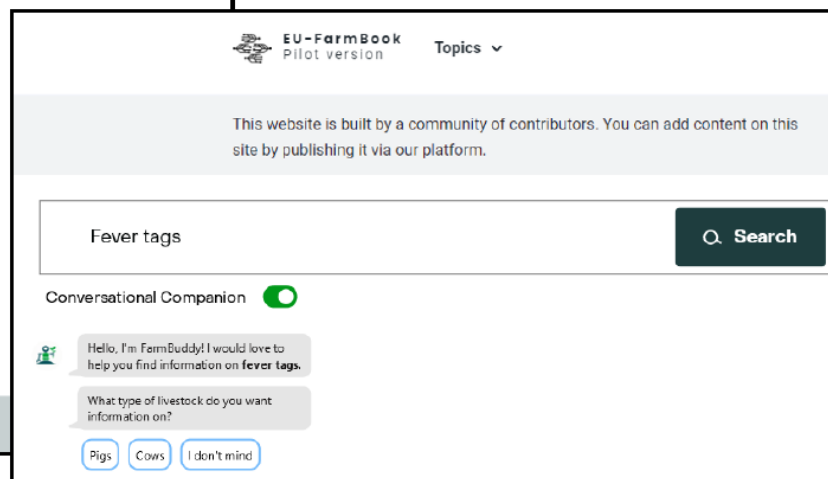
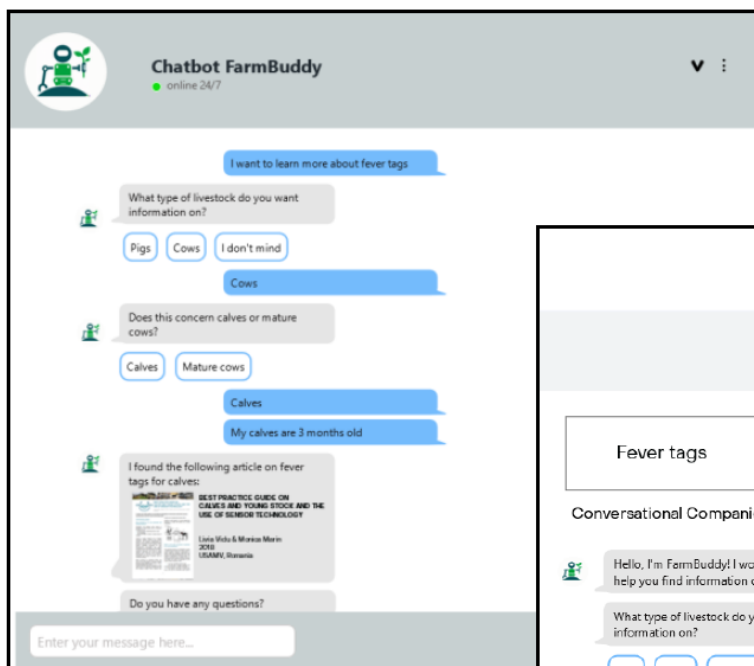
EU-FarmBook



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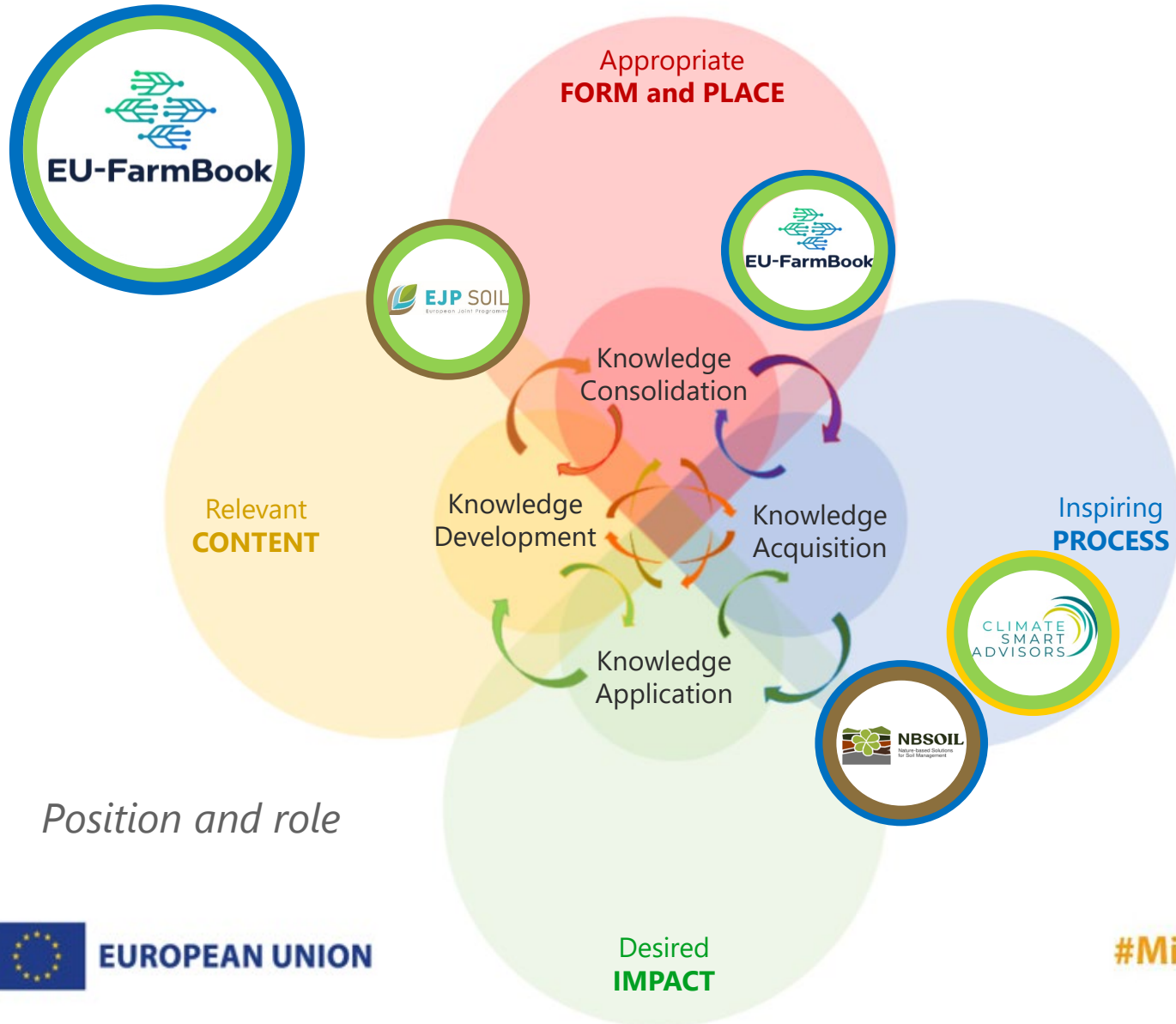
And a 'taster' of what's to come...

A 24/7 'Chatbot FarmBuddy'!



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EU Farmbook in the Knowledge Landscape

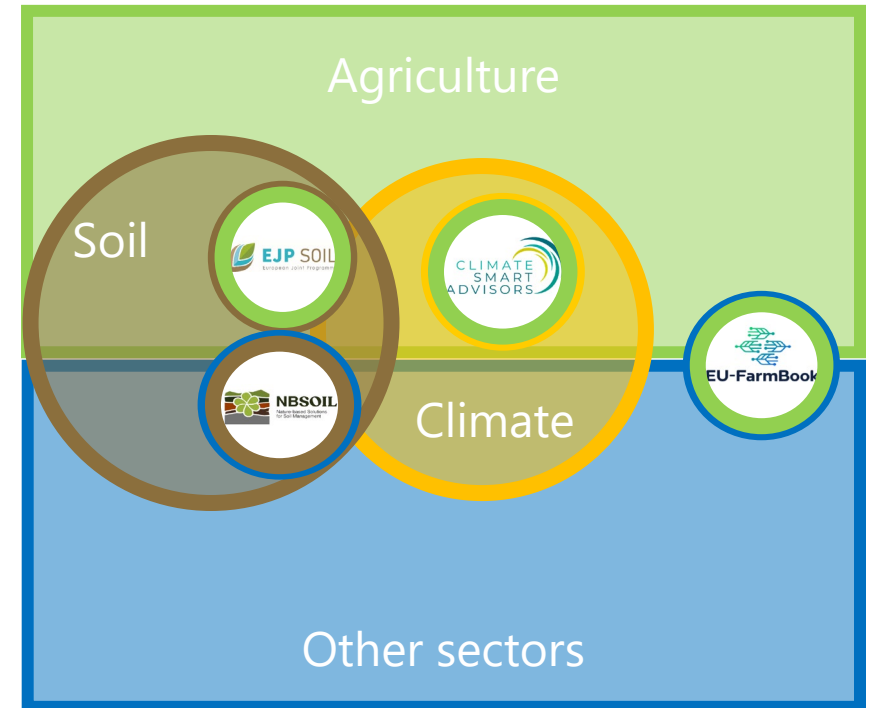


Position and role



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Content and sectors





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The EU-FarmBook project is multi-actor! Would you like to get involved?

- Express your level of interest here:

[welcome.eufarmbook.eu/ #subscribe](https://welcome.eufarmbook.eu/#subscribe)



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Thank you!



Email: jpromero@mapa.es

Websites:

<https://welcome.eufarmbook.eu/>

<https://www.mapa.gob.es/es/desarrollo-rural/temas/innovacion-medio-rural/proyectos-europeos-akis/>

mission-soil-platform.ec.europa.eu

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