

**Guillermo
DG AGRI**



**Introduction to the EU Soil Mission
'A Soil Deal for Europe': Work Programme 2022
EIP-AGRI brokerage event
'Get involved in the EU Mission: A Soil Deal for Europe'**



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SOIL DEAL FOR EUROPE



Work Programme 2022

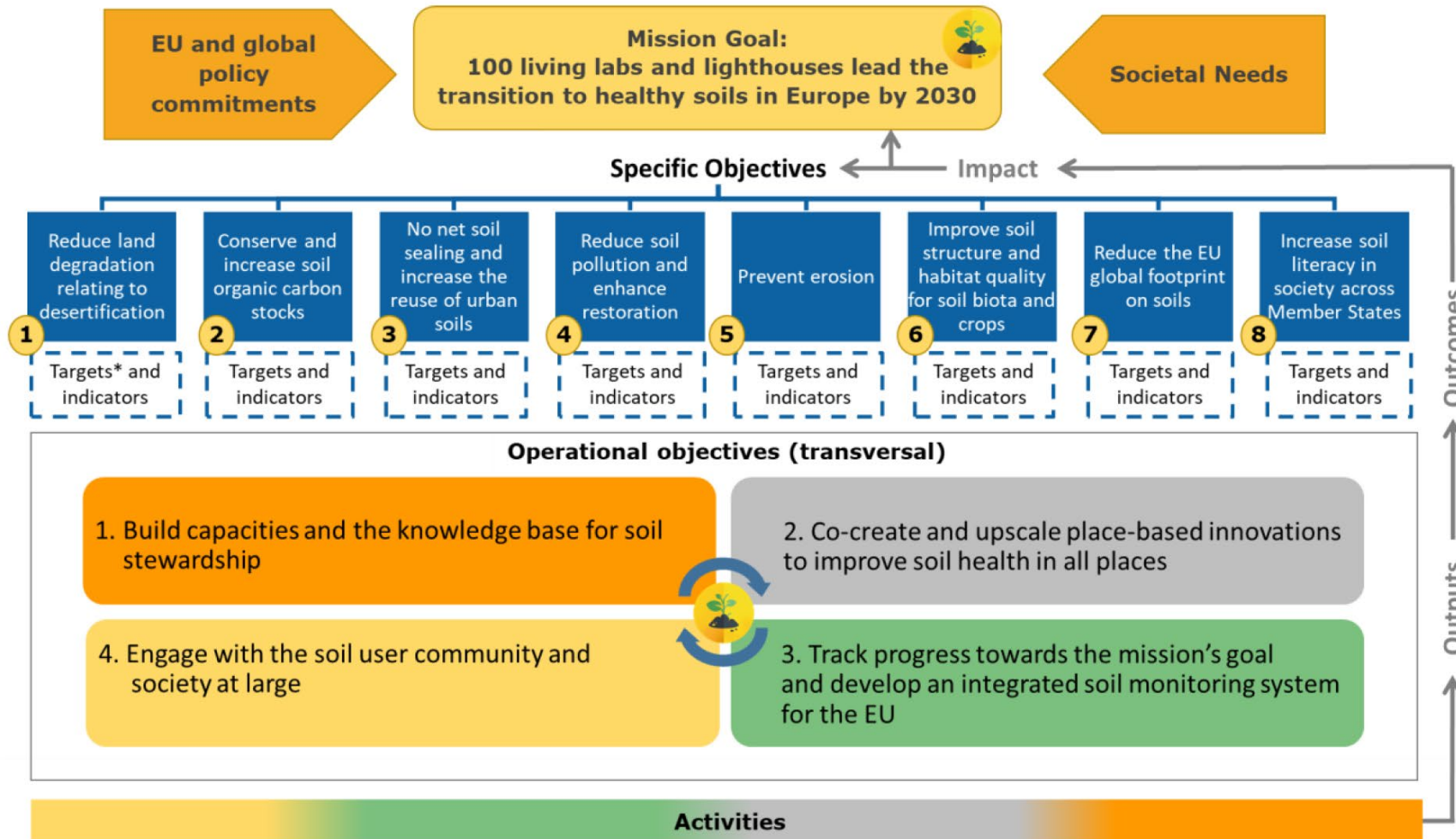
EU Mission “A Soil Deal for Europe”

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European Commission - DG Agriculture and Rural Development
Unit F2 Research and Innovation – Mission Soil Secretariat

EIP-AGRI Brokerage Event, ‘Get involved in the EU Mission: A Soil Deal for Europe’, 8 June, 2022



Schematic view of the Soil Mission's intervention logic



* Quantitative aspirational targets (some of which correspond to existing Green Deal targets)



Work Programme 2021 EU Mission “A Soil Deal for Europe” (first call - HORIZON-MISS-2021-SOIL-01)

Call - Preparing the ground for healthy soils: building capacities for engagement, outreach and knowledge - HORIZON-MISS-2021-SOIL-01

- Budget 5 M€
- Call opening: 22 June 2021; Application deadline: 20 October 2021

Proposals invited against the following topic:

- HORIZON-MISS-2021-SOIL-01-01: Preparing the ground for healthy soils: building capacities for engagement, outreach and knowledge (CSA)



Work Programme 2021 EU Mission “A Soil Deal for Europe” (second call - HORIZON-MISS-2021-SOIL-02)

Call - Research and Innovation and other actions to support the implementation of a mission in the area of Soil health and Food - HORIZON-MISS-2021-SOIL-02

- Budget 62 M€
- Call opening: 22 December 2021
- Application deadline: 24 March 2022
- Eight Topics + two other actions not subject to calls for proposals



Work Programme 2021 EU Mission “A Soil Deal for Europe” (second call - HORIZON-MISS-2021-SOIL-02)

Proposals invited against the following topic:

- HORIZON-MISS-2021-SOIL-02-01: From knowledge gaps to **roadmaps on soil mission objectives** (CSA)
- HORIZON-MISS-2021-SOIL-02-02: Validating and further developing **indicators for soil health and functions** (RIA)
- HORIZON-MISS-2021-SOIL-02-03: Linking soil health to **nutritional and safe food** (RIA)
- HORIZON-MISS-2021-SOIL-02-04: Social, economic and cultural factors driving **land management and land degradation** (RIA)
- HORIZON-MISS-2021-SOIL-02-05: **Incentives and business models** for soil health (RIA)
- HORIZON-MISS-2021-SOIL-02-06: **Engage with and activate municipalities and regions** to protect and restore soil health (CSA)
- HORIZON-MISS-2021-SOIL-02-07: National **engagement sessions and support** to the establishment of **soil health living labs** (CSA)
- HORIZON-MISS-2021-SOIL-02-08: Next generation **soil advisors** (RIA)

Other Actions not subject to calls for proposals:

- Procurement action: Mission Implementation platform
- Scientific and technical services by the JRC: Technical and scientific support for the development of an EU soil monitoring framework



Work Programme 2022 EU Mission “A Soil Deal for Europe”

Call - Research and Innovation and other actions to support the implementation of a mission in the area of Soil health and Food - HORIZON-MISS-2022-SOIL-01

- Budget 95 M€
- Call opening: 12 May 2022
- Application deadline: **27 September 2022 (17:00:00 Brussels local time)**
- Ten topics open for proposal submission



Work Programme 2022 EU Mission “A Soil Deal for Europe”

Proposals invited against the following topics:

- HORIZON-MISS-2022-SOIL-01-01: Building the **mission's knowledge repository** and advancing the **European Soil Observatory** (IA)
- HORIZON-MISS-2022-SOIL-01-02: Improving food systems sustainability and soil health with **food processing residues** (RIA)
- HORIZON-MISS-2022-SOIL-01-03: **Soil biodiversity** and its contribution to ecosystem services (RIA)
- HORIZON-MISS-2022-SOIL-01-04: **Remediation** strategies, methods and financial models for **decontamination and reuse of land** in urban and rural areas (RIA)
- HORIZON-MISS-2022-SOIL-01-05: Monitoring, reporting and verification of **soil carbon and greenhouses gases balance** (RIA)
- HORIZON-MISS-2022-SOIL-01-06: Network on **carbon farming** for agricultural and forest soils (CSA)
- HORIZON-MISS-2022-SOIL-01-07: Foster **soil education** across society (RIA)
- HORIZON-MISS-2022-SOIL-01-08: Framework Partnership Agreement (FPA) for a **Living Lab network support structure** (FPA)
- HORIZON-MISS-2022-SOIL-01-09: **Citizen science** for soil health (RIA)
- HORIZON-MISS-2022-SOIL-01-10: Innovations for soil improvement from **bio-waste** (IA)



Work Programme 2022 EU Mission “A Soil Deal for Europe”

Topics	Title	Type of Action	Budgets (EUR million)	Expected EU contrib. per project (EUR million)	Number of projects expected to be funded	Multi-actor approach requested
HORIZON-MISS-2022-SOIL-01-01	Building the mission's knowledge repository and advancing the European Soil Observatory	IA	6.00	Around 6.00	1	NO
HORIZON-MISS-2022-SOIL-01-02	Improving food systems sustainability and soil health with food processing residues	RIA	14.00	Around 7.00	2	YES
HORIZON-MISS-2022-SOIL-01-03	Soil biodiversity and its contribution to ecosystem services	RIA	16.00	Around 8.00	2	YES
HORIZON-MISS-2022-SOIL-01-04	Remediation strategies, methods and financial models for decontamination and reuse of land in urban and rural areas	RIA	21.00	Around 7.00	3	NO
HORIZON-MISS-2022-SOIL-01-05	Monitoring, reporting and verification of soil carbon and greenhouses gases balance	RIA	14.00	Around 7.00	2	NO
HORIZON-MISS-2022-SOIL-01-06	Network on carbon farming for agricultural and forest soils	CSA	3.00	Around 3.00	1	YES
HORIZON-MISS-2022-SOIL-01-07	Foster soil education across society	RIA	6.00	Around 6.00	1	YES
HORIZON-MISS-2022-SOIL-01-08	Framework Partnership Agreement (FPA) for a Living Lab network support structure	FPA	0	0	1	NO
HORIZON-MISS-2022-SOIL-01-09	Citizen science for soil health	RIA	6.00	Around 6.00	1	NO
HORIZON-MISS-2022-SOIL-01-10	Innovations for soil improvement from bio-waste	IA	9.00	Around 3.00	3	NO



Specific requirements for multi-actor projects

The multi-actor approach aims at making the **R&I process and its outcomes more demand-driven, relevant to society and socially innovative.**

- A multi-actor project should ensure the **genuine involvement of different types of actors**, in particular the (end-) users of project results (those who put the project results into practice). In the area of agriculture these can be for example farmers and farmers' groups, foresters and foresters' groups, advisors, food processors, businesses, consumer associations, local communities, citizens, civil society organisations including NGOs, social partners and government representatives.
- The **genuine involvement of different types of actors should take place over the course of the project** to ensure co-creation: from participation in project planning and experiments to implementation, dissemination of results and a possible demonstration phase. This is **expected to speed up the acceptance and take-up of new ideas, approaches and solutions developed in the project.**

For topics working in the area of agriculture and forestry (linked to Intervention Area 3 of Horizon Europe Cluster 6):

- Practice oriented knowledge resulting from projects should be assembled in form of **'practice abstracts'** in the **common EIP-AGRI format.**
- **Involvement or cooperation with EIP-AGRI Operational Groups** funded under Rural Development Programmes should be sought, as appropriate.



Funding and tender opportunities portal

<https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/home>

- Topic description
- General conditions (admissibility conditions, eligible countries, etc.: Horizon Europe WP General Annexes)
- Partner search announcements (expertise offers and expertise requests)
- Submission service (access to the Electronic Submission Service)
- Topic related FAQ
- Get support



Funding and tender opportunities portal

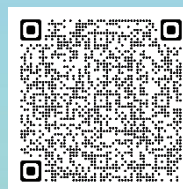
Get support:

- **Online Manual** (guide on the procedures from proposal submission to managing your grant).
- **Horizon Europe Programme Guide** (detailed guidance to the structure, budget and political priorities).
- **Funding & Tenders Portal FAQ** – find the answers to most frequently asked questions on submission of proposals, evaluation and grant management.
- **Research Enquiry Service** – ask questions about any aspect of European research in general and the EU Research Framework Programmes in particular.
- **National Contact Points (NCPs)** – get guidance, practical information and assistance on participation in Horizon Europe.
- **Enterprise Europe Network** – contact your EEN national contact for advice to businesses with special focus on SMEs. The support includes guidance on the EU research funding.
- **IT Helpdesk** – contact the Funding & Tenders Portal IT helpdesk for questions such as forgotten passwords, access rights and roles, technical aspects of submission of proposals, etc.
- **European IPR Helpdesk** - assists you on intellectual property issues.



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Thank you!

For further information and questions please contact the Mission Secretariat:

AGRI-SOIL-MISSION-BOARD@ec.europa.eu

#MissionSoil #EUmissions #HorizonEU

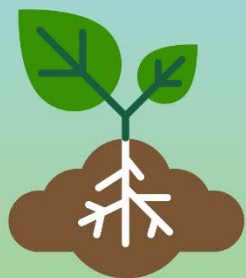
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HORIZON-MISS-2022-SOIL-01-01

**Building the mission's knowledge repository and
advancing the European Soil Observatory**

Innovation Action

#EUmissions #HorizonEU #MissionSoil





HORIZON-MISS-2022-SOIL-01-01



POLICY CONTEXT

- ✓ EU Green Deal and its strategies, in particular:
 - EU Soil Strategy
 - Farm to Fork Strategy
 - Biodiversity Strategy
 - Zero Pollution Action Plan
- ✓ Mission “A Soil Deal for Europe” Specific Objectives
- ✓ European Soil Observatory
- ✓ EU Common Agricultural Policy
- ✓ Strategy for Europe Fit for the Digital Age
- ✓ UN Sustainable Development Goals



EXPECTED OUTCOMES

- ✓ Enhanced capacities for mission implementation and use of mission results through efficient knowledge and data management and access for a wide range of stakeholders.
- ✓ Stakeholders are able to take more informed soil management decisions through improved access to knowledge on soils, drivers of soil health and land degradation as well as solutions to improve the status of soils; increased potential for new business opportunities from products, technologies and services.
- ✓ The European Soil Observatory (EUSO) is populated with comprehensive, interoperable datasets and information on soil health.



HORIZON-MISS-2022-SOIL-01-01

SCOPE



- ✓ To develop a strategy, standardised methods and recommendations for the collection, processing, visualisation and exploitation of soil data and knowledge resulting in from R&I projects as well as in situ and remote measurements (data and information from all types of soils, geographic regions and land uses in Europe).
- ✓ To develop and test a prototype for a long-term, open-access and user-friendly knowledge and data repository, expected to become later part of the EUSO.
- ✓ To explore and take advantage of the potential of artificial intelligence (AI) and machine learning to process and use information and data.
- ✓ To provide examples for practice-oriented “user cases” to show how potential users can capitalise on and re-use existing information and data from the knowledge repository.



INDICATIVE BUDGET

6 mln EUR per project
(6 mln EUR in total)



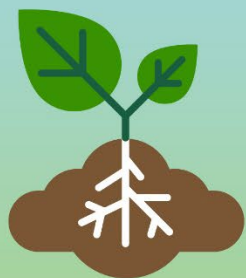
IMPORTANT!

Activities are expected to achieve TRL 5-7 by the end of the project

Activities should be implemented in close cooperation with the JRC and the European Soil Observatory.



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HORIZON-MISS-2022-SOIL-01-02

Improving food systems sustainability and soil health
with food processing residues

Research and Innovation Actions #EUmissions #HorizonEU #MissionSoil





HORIZON-MISS-2022-SOIL-01-02



POLICY CONTEXT

- ✓ **EU Green Deal and its strategies** in particular:
 - ✓ New Soil Strategy
 - ✓ Farm to Fork Strategy
 - ✓ Circular Economy Action Plan
 - ✓ Zero Pollution Action Plan
 - ✓ Biodiversity Strategy
 - ✓ Climate Adaptation Strategy
- ✓ **EU FOOD 2030 initiative**
- ✓ **Bioeconomy Strategy**
- ✓ **Waste Framework Directive**



EXPECTED OUTCOMES

- ✓ **Improved management and recycling of food-processing residues** for increased soil health.
- ✓ **Reduced discharge of nutrients** (i.e., nitrogen, phosphorus, potassium) into sewage/natural watercourses and landfills.
- ✓ **Empowered interdisciplinary design processes** to create soil improvers and to valorise food by-products in food systems (e.g., land managers, industry, SMEs, local authorities and civil society).
- ✓ Higher number of **co-developed solutions and investments** (public and private) in circular bioeconomy projects.



HORIZON-MISS-2022-SOIL-01-02

SCOPE



- ✓ **Develop high quality standardized processes and strategies** for the re-use of food processing residues streams for soil improvers production.
- ✓ **Assess existing best practices** identifying key economic, environmental and social factors that enable/hinder the replicability/scalability of using food waste streams as soil improvers (e.g., food by-products collection and treatment).
- ✓ **Elaborate a list of actions and priorities** to overcome efficiently potential challenges (e.g., potential biological or chemical risks) and **outline innovative techniques** by which food waste can be transformed into a safe valuable input for soil amelioration, while reducing the loss of nutrients in nature.
- ✓ **Set up an evaluation framework for the design, implementation and monitoring** of the performance of actions and strategies that will lead to an optimised use of food processing waste streams.
- ✓ **Identify public and private funding streams** that can be used to support circular bioeconomy projects and initiatives that boost nutrient use for soil health.
- ✓ **Create societal awareness** by bringing together public authorities, the private sector, educators, researchers, media, NGO and citizens to foster circularity of the food system to develop activities targeted to different actors.



INDICATIVE BUDGET

7 mln EUR per project
(14 mln EUR in total)

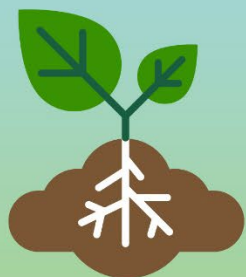


IMPORTANT!

- Multi-actor approach
- Citizen engagement
- Build on existing national and European projects
- Consider the food waste hierarchy and animal health legislation



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HORIZON-MISS-2022-SOIL-01-03

Soil biodiversity and its contribution to ecosystem services

Research and Innovation Action

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HORIZON-MISS-2022-SOIL-01-03



POLICY CONTEXT

- ✓ European Green Deal and its strategies such as Farm to Fork, Biodiversity Strategy and Soil Strategy
- ✓ Soil Deal Mission Objective 6: “Improve soil structure to enhance habitat quality for soil biota and crops”
- ✓ Sustainable Development Goals



EXPECTED OUTCOMES

- ✓ Significantly **improved understanding of ecosystem services related to soil biodiversity** as well as of the **role of soil biodiversity** in the provision of relevant soil functions and ecosystem services.
- ✓ Enhanced **protection, sustainable management and restoration of soil ecosystems** through more targeted (policy) incentives and wide-spread knowledge on sustainable soil management practices and solutions.
- ✓ Significantly **improved availability of soil biodiversity indicators** which support the implementation, assessment and monitoring of policy at large scale (i.e. EU).



HORIZON-MISS-2022-SOIL-01-03

SCOPE

- ✓ Provide a comprehensive view of the **composition, functions, and dynamics of the network of soil-living communities.**
- ✓ Establish the **links between soil biodiversity, soil functions and ecosystem services** taking into account potential trade-offs between different ES.
- ✓ Propose **indicators for capturing and measuring soil biodiversity and the provision of ES** and demonstrate practical approaches for the use of these indicators.
- ✓ Identify **drivers and pressures (including their interactions) of soil biodiversity** and explore their effects on soil community composition and functioning and how they alter and hamper ES provision.
- ✓ Provide a **framework to assess and value the contribution of soil biodiversity to ES in economic terms.**
- ✓ Translate the knowledge created into **practical applications to increase the uptake of practices that promote soil biodiversity** and optimise its contribution to soil functions ES.



INDICATIVE BUDGET

8 mln EUR per project
(16 mln EUR in total)

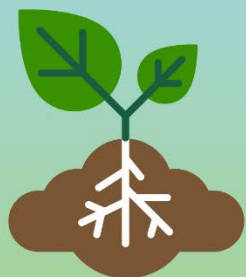


IMPORTANT!

Multi-actor approach
Transdisciplinary approaches (include social sciences and humanities)
Close cooperation with JRC (EUSO) and EEA
Take into account major R&I initiatives (e.g. EJP Soil, Biodiversa+, SoilBON etc.)



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HORIZON-MISS-2022-SOIL-01-04

**Remediation strategies, methods and financial models for
decontamination and reuse of land in urban and rural areas**

Research and Innovation Action

#EUmissions #HorizonEU #MissionSoil





HORIZON-MISS-2022-SOIL-01-04



POLICY CONTEXT

- ✓ EU Green Deal and its strategies, in particular:
 - EU Soil Strategy
 - Zero Pollution Action Plan
 - Farm to Fork Strategy
 - Biodiversity Strategy
- ✓ Mission “A Soil Deal for Europe” Specific Objective 4 “Reduce soil pollution and enhance restoration”
- ✓ European Soil Observatory



EXPECTED OUTCOMES

- ✓ Land managers can better prioritise and plan activities and investments for soil restoration and decontamination based on increased knowledge on the state of land and soil pollution.
- ✓ Knowledge on technical solutions for soil decontamination and restoration is more widespread and better integrated in a wider sustainable land use and spatial planning approach, contributing to noticeable improvements in soil health on the medium term as well as to the circular use of land.
- ✓ MS regions affected by the need for a green transition are supported in their efforts to remediate and reuse contaminated soils, such as from former mining sites.²³



HORIZON-MISS-2022-SOIL-01-04



SCOPE

- ✓ To provide an overview of the state-of-play of the various types of soil pollution across the different land uses in urban and rural areas, developing interactive, combined soil pollution maps.
- ✓ To identify, quantify and characterise sources, pathways, receptors and risks of soil pollution in urban and rural areas.
- ✓ To develop comprehensive strategies for soil restoration targeting various types of soil contamination and land uses.
- ✓ To identify and further develop methods, tools and approaches for the monitoring and remediation of polluted soils.
- ✓ To develop financial and spatial planning models promoting the reuse of land and support the private and public sector in their decision-making for soil restoration and decontamination.
- ✓ To enhance the capacity for outlook and foresight reporting on soil pollution/development of a priority list for contaminants of major and/or emerging concern for vigilance and priority action.



INDICATIVE BUDGET

7 mln EUR per project
(21 mln EUR in total)

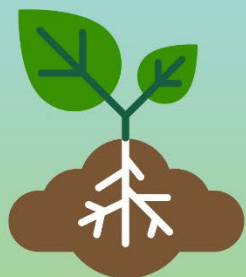


IMPORTANT!

Close collaboration with the European Soil Observatory to ensure open access, longevity, sustainability and interoperability of knowledge and outputs.



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HORIZON-MISS-2022-SOIL-01-05

**Monitoring, reporting and verification of soil carbon
and greenhouse gases balance**

Research and Innovation Actions

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HORIZON-MISS-2022-SOIL-01-05



POLICY CONTEXT

- ✓ EU Green Deal and its strategies in particular:
- ✓ EU Climate Law
- ✓ EU Regulation for Land Use, Forestry, and Agriculture (LULUCF) (2018/841 & 2021 revised proposal)
- ✓ Farm to Fork Strategy
- ✓ Communication on Sustainable Carbon Cycles
- ✓ Future EU regulatory framework for certification of carbon removals
- ✓ Circular Economy Action Plan



EXPECTED OUTCOMES

- ✓ Support implementation of European Commission Communication on sustainable carbon cycles and carbon farming and the upcoming regulatory framework on carbon removals certification
- ✓ Better understand relationships between carbon flux dynamics of carbon farming practices and its driving factors as well as the impact of climate change on soil organic carbon.
- ✓ Enhance development of standards & methods to track payment systems and carbon already stored in soils for carbon farming.
- ✓ Reduce administrative and financial burden of carbon farming management.



HORIZON-MISS-2022-SOIL-01-05

SCOPE



- ✓ Refine and develop procedures for, and execute, direct on-field measurements and estimation of carbon and GHG accumulation and fluxes exchange in soil and biomass.
- ✓ Develop process models incorporating new and diverse data streams to provide higher temporal and spatial resolution on the biological, chemical and physical drivers of fluxes, accumulation and storage of soil organic carbon and matter.
- ✓ At a landscape level, assess the effect of, and the soil's capacity for, the implementation of land carbon-capture practices.
- ✓ Develop, standardise and demonstrate methodologies and rules for monitoring, reporting and verifying the fluxes of soil carbon and through carbon farming at sub-landscape.
- ✓ Assess the economic and social impacts of carbon farming on the local rural economy. Identify means for financial support. Inform on economically viable and effective management options for soil organic carbon formation.



INDICATIVE BUDGET

7 mln EUR per project
(14 mln EUR in total)

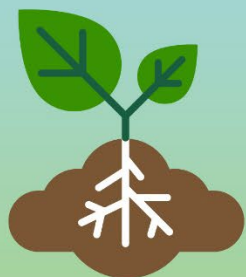


IMPORTANT!

Coordination and collaboration with other EU initiatives



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HORIZON-MISS-2022-SOIL-01-06

Network on carbon farming for agricultural and forest soils

Coordination and Support Actions

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HORIZON-MISS-2022-SOIL-01-06



POLICY CONTEXT

- ✓ EU Green Deal and its strategies in particular:
- ✓ EU Climate Law
- ✓ EU Regulation for Land Use, Forestry, and Agriculture (LULUCF) (2018/841 & 2021 revised proposal)
- ✓ Farm to Fork Strategy
- ✓ Communication on Sustainable Carbon Cycles
- ✓ Future EU regulatory framework for certification of carbon removals
- ✓ Circular Economy Action Plan



EXPECTED OUTCOMES

- ✓ Support implementation of European Commission Communication on sustainable carbon cycles and carbon farming and the upcoming regulatory framework on carbon removals certification, contribute to the design and implementation of carbon-farming practices in Europe.
- ✓ Increase knowledge about carbon farming practices through networking and exchange of experiences.
- ✓ Enhance uptake and development of carbon farming standards.
- ✓ Increase capacities for measuring, monitoring and standardising carbon fluxes, in particular at landscape level through a robust network for data collections.



HORIZON-MISS-2022-SOIL-01-06

SCOPE



- ✓ Build and coordinate a network of key stakeholders drawn from European research facilities, systems developers, solution providers, land advisors and managers and others, involved in soil and biomass programmes linked to carbon sequestration, in particular at the landscape scale level.
- ✓ Develop a platform for exchange of experiences, knowledge and support facilitating the development of result-based carbon farming schemes.
- ✓ Underpin the establishment of data collection networks (e.g. carbon flux measurements stations, ground sampling campaigns, etc.), promoting the practice of data sharing and standardisation, retrieval and aggregation of information.
- ✓ Identify gaps and opportunities at the landscape level in ecosystem monitoring and soil carbon flux mitigation practices.



INDICATIVE BUDGET

3 mln EUR per project
(and in total)

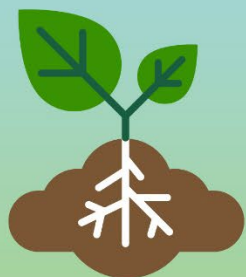


IMPORTANT!

Coordination and collaboration with other EU initiatives
Multi-actor approach & co-creating process



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**HORIZON-MISS-2022-SOIL-01-07: Foster soil
education across society**
Research and Innovation Action

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HORIZON-MISS-2022-SOIL-01-07



POLICY CONTEXT

- ✓ EU Green Deal and its strategies in particular:
 - ✓ European Climate Pact
 - ✓ EU Soil Strategy
- ✓ European Education Area
 - ✓ Education for Climate Coalition
 - ✓ European sustainability competence framework (GreenComp)
- ✓ Mission 'A Soil Deal for Europe' – objective 8



EXPECTED OUTCOMES

- ✓ teaching programmes and targeted communication, education and engagement materials on soil are more widely available;
- ✓ higher uptake and diffusion of good practices and hands-on activities related to soil education;
- ✓ soil literacy is more firmly embedded in educational curricula at all levels and supports the adoption of sustainable practices;
- ✓ increased awareness of the importance of soil and its functions, as well as of the Mission objectives, amongst pupils, students and professionals across Europe.



HORIZON-MISS-2022-SOIL-01-07



SCOPE

- ✓ Identify current level of soil related knowledge and educational needs
- ✓ Develop courses/modules for soil education in schools, universities and professional/technical training using various learning tools
- ✓ Identify, further develop, and demonstrate/pilot exemplary sustainable practices on soil related educational settings
- ✓ Disseminate and make widely available educational and training material gathered and developed throughout the project – targeted communication making use of advanced tools, channels and network
- ✓ Enhance knowledge exchange and peer-to-peer learning amongst the different target groups and empower them to act on fostering strong links with the Education for Climate Coalition
- ✓ Engage with public authorities and institutions responsible education and make recommendations for policy makers



INDICATIVE BUDGET

6 mln EUR per project
(6 mln EUR in total)



IMPORTANT!

- multi-actor approach
- geographical balance



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HORIZON-MISS-2022-SOIL-01-08

Framework Partnership Agreement for a Living Lab
Network Support Structure

FPA

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HORIZON-MISS-2022-SOIL-01-08



POLICY CONTEXT

- ✓ European Green Deal and its strategies such as Farm to Fork, Biodiversity Strategy and Soil Strategy
- ✓ Soil Deal Mission Objectives (mainly from 1 to 6)



EXPECTED OUTCOMES

- ✓ An effective Support Structure (LL Support Structure) is established, to coordinate and promote activities under the mission's network of living labs and lighthouses.
- ✓ Social capital and citizen engagement on soil health challenges is increased and solutions developed and tested are disseminated.
- ✓ The uptake and scaling up of good practices by land managers is promoted by the LL Support Structure within and beyond living lab areas.
- ✓ Experiences across the living labs can be assessed based due to common monitoring and evaluation procedures.



HORIZON-MISS-2022-SOIL-01-08

SCOPE



- ✓ Set up a structure that will act as a one-stop shop catering for the needs of living labs and lighthouses and providing tailor made advice to participants.
- ✓ Provide methodological support to stakeholders concerning the building of the consortia, the setting-up and the running of the living labs under the Soil Deal Mission.
- ✓ Facilitate the exchange of knowledge and innovation through organization of workshops, seminars, annual network meetings, cross-visits, working groups, etc.
- ✓ Provide a web-portal and other tools for information, exchange of experiences and outreach.
- ✓ Monitor and assess activities of living labs and lighthouses and report on the main outcomes, as well as disseminate solutions.



INDICATIVE BUDGET

To be set out in each SGA ('specific grant agreements') to follow after this FPA

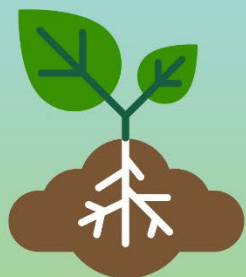


IMPORTANT!

- Build on the engagement sessions to be organised under topic HORIZON-MISS-2021-SOIL-02-07 and projects such as PREPSOIL and SMS.
- Due attention shall be given to a balanced geographic and thematic coverage of the LL.



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HORIZON-MISS-2022-SOIL-01-09

Citizen science for soil health

Research and Innovation Action #EUmissions #HorizonEU #MissionSoil





HORIZON-MISS-2022-SOIL-01-09



POLICY CONTEXT

- ✓ EU Green Deal and its strategies in particular:
 - ✓ EU Soil Strategy
- ✓ Mission ‘A Soil Deal for Europe’ – objective 8



EXPECTED OUTCOMES

- ✓ The public's awareness of the value of soil is significantly increased.
- ✓ Citizens are empowered to take an active role in science and in increasing the knowledge base on soils by monitoring and gathering data on soil biodiversity and becoming more aware of the importance of soils and the soil food web in their daily lives.
- ✓ Greater availability of local scale data on soil health. This will expand and complement established soil databases to support critical landscape decisions and policy development.
- ✓ The EUSO scope is enlarged and populated with citizen science data.



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SCOPE



- ✓ Develop a strategy for the standardised collection, processing and visualisation of soil health data that are submitted by citizens directly from the field.
- ✓ Formulate recommendations, guidelines, protocols and field guides to gather data and observations by the public in a more systematic way.
- ✓ Demonstrate and test user-friendly tools for the assessment of soil health related issues by soil users and the wider community considering the language diversity of the EU.
- ✓ Propose and test methods for quality control of citizen science data as well as for the integration of heterogeneous data from citizen science activities.
- ✓ Run citizen science initiatives, ideally concurrently in all MS, contributing to enhanced soil sampling, mapping, reporting and the understanding of pressures affecting soil health.
- ✓ Create a prototype for a long-term repository of data resulting from the citizen science initiatives implemented under the project.
- ✓ Develop case studies demonstrating how the collected data can be used.
- ✓ Provide training and build capacities for soil related citizen science initiatives.



INDICATIVE BUDGET

6 mln EUR per project
(6 mln EUR in total)



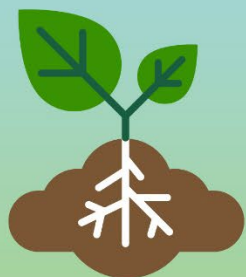
IMPORTANT!

Collaboration with project under topic HORIZON-MISS-2022-SOIL-01-01

Collaboration with the JRC and EUSO



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HORIZON-MISS-2022-SOIL-01-10

Innovations for soil improvement from bio-waste

Innovation Actions

#EUmissions #HorizonEU #MissionSoil





HORIZON-MISS-2022-SOIL-01-10



POLICY CONTEXT

- ✓ EU Green Deal and its strategies in particular:
 - ✓ New Soil Strategy
 - ✓ Farm to fork
 - ✓ Zero pollution action plan
 - ✓ Biodiversity
 - ✓ Climate adaptation
- ✓ EU FOOD 2030 initiative
- ✓ Bioeconomy strategy
- ✓ Waste Framework Directive



EXPECTED OUTCOMES

- ✓ Increased number of highly innovative start-ups and industrial hubs developing and scaling up soil improvers from bio-waste.
- ✓ Enhanced entrepreneurship on circularity
- ✓ Improved nutrient recovery from bio-waste for soil improvers production
- ✓ Improved environmental, health and safety performance of soil improvers from bio-waste and related production operations, including improved testing methods throughout the entire life cycle.



HORIZON-MISS-2022-SOIL-01-10



SCOPE

- ✓ Develop and pilot innovations to support **large-scale product validation** and **market replication** of soil improvers from bio-waste that allow a major step increase in technological maturity of products and or services (**Technology Readiness Levels 7-8**).
- ✓ Develop and pilot appropriate **business models** that consider different market outlets and marketing strategies for the proposed innovations while significantly decreasing bio-waste incinerated or destined for landfills
- ✓ Demonstrate the safety of soil improvers, and their production phase, in accordance with **relevant EU regulatory frameworks** related to their placing on the market and generate data to support improved social and environmental performance.
- ✓ Analyse vulnerabilities, dependencies, and need for critical infrastructure that may hinder the upscaling of production and marketing of soil improvers from bio-waste.
- ✓ Monitor the pre-market processes (i.e., design, production, testing, etc.) to demonstrate upscaling feasibility and economic profit.



INDICATIVE BUDGET

3 mln EUR per project
(9 mln EUR in total)



IMPORTANT!

- Multi-actor approach
- Build upon existing national and European resources:
 - Horizon Results Platform
- Bio-waste hierarchy



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Thank you!



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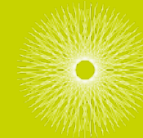
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EIP-AGRI brokerage event **'Get involved in the EU Mission:** **A Soil Deal Europe** **8-9 June 2022, Brussels, Belgium**

All information on the brokerage event is available on
www.eip-agri.eu

on the event webpage:
<https://ec.europa.eu/eip/agriculture/en/event/eip-agri-brokerage-event-%E2%80%99get-involved-eu-mission>

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