EU MISSIONS

SOIL DEAL FOR EUROPE

Concrete solutions for our greatest challenges

#EUmissions #HorizonEU #MissionSoil
# A Soil Deal for Europe Mission

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#EUMissions #HorizonEU #MissionSoil #soilhealth
Concrete solutions for our greatest challenges
100 living labs and lighthouses to lead the transition towards healthy soils by 2030

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Horizon Europe R&I Missions

Linking EU's research and innovation to major societal needs; with strong visibility and impact

A mission is a portfolio of actions across disciplines intended to achieve a bold and inspirational and measurable goal within a set timeframe, with impact for society and policy making as well as relevance for a significant part of the European population and wide range of European citizens.

Horizon Europe defines 5 missions areas:

- Adaptation to Climate Change
- Cancer
- Climate-neutral and Smart Cities
- Restore our Ocean and Waters
- Soil Deal for Europe
Why a mission on soil?

- Soils support ecosystem services and provide vital functions:
  - producing nutritious and safe food
  - hosting biodiversity
  - purifying and regulating water, thus providing protection from droughts and floods
  - cycling nutrients
  - storing and cycling carbon, supporting climate mitigation and adaptation
  - supporting human activities, landscapes and cultural heritage

- Soil is a finite resource, meaning its loss and degradation is not recoverable within a human timespan.

- Soils are threatened: **60-70% of soils in Europe are considered to be unhealthy** due to current management practices, pollution, urbanisation and the effects of climate change.
2.8 million potentially contaminated sites posing major health risks

Cropland soils losing carbon at a rate of 0.5% per year; 50% of peatlands drained and losing carbon – this is contributing to the climate crisis

65-75% of agricultural soils with nutrient inputs at levels risking eutrophication of soils and water and affecting biodiversity

24% of land with unsustainable water erosion rates

25% of land at High or Very High risk to desertification in Southern, Central and Eastern Europe in 2017

The costs associated with soil degradation in the EU exceed 50 billion € per year

The effects of climate change put further pressure on soils and accelerate land degradation!
The Soil Deal Mission supports the Green Deal

The Mission is part of
- Farm to Fork Strategy
- EU Biodiversity Strategy for 2030
- Climate Adaptation Strategy
- Forest Strategy
- Zero Pollution Action Plan for air, water and soil
- Organic Action Plan
- Long-term vision for EU’s rural areas
- New EU Soil Strategy
- Communication on food security and resilience of food systems

Examples of soil relevant Green Deal targets

By 2030
- 25% of land under organic farming
- Reduce the overall use and risk of chemical pesticides by 50% and the use of more hazardous pesticides by 50%
- Reduce fertilizer use by at least 20%
- Reduce nutrient losses by at least 50%
- Reduce by 30% microplastics released into the environment
- Reduce net greenhouse gas (GHG) emissions by at least 55% compared to 1990 levels.

By 2035
- the EU should aim to reach climate neutrality in the land use, forestry & agriculture sectors.
Europe’s pathway to healthy soils

The Soil Strategy and upcoming Soil Health Law (2023), the European Soil Observatory and the Mission together build an effective framework for soil protection and restoration.
Goal of the Mission:

100 living labs and lighthouses to lead the transition towards healthy soils by 2030

Specific objectives:

1. Reduce desertification

2. Conserve soil organic carbon stocks

3. Stop soil sealing and increase re-use of urban soils

4. Reduce soil pollution and enhance restoration

5. Prevent erosion

6. Improve soil structure to enhance soil biodiversity

7. Reduce the EU global footprint on soils

8. Improve soil literacy in society

Each specific objective is backed by one or more quantified targets and measurable indicators. Objectives apply to all types of land use.
How will the Mission be implemented?

Activities under the **four building blocks** to address soil health and the **drivers of soil health**

1. **Research & Innovation programme**
   - Knowledge, data, technologies and infrastructures to support practices and business models for soil health

2. **Living labs and lighthouses**
   - A comprehensive network of real-life sites for co-creating, testing, demonstrating and upscaling of solutions

3. **Soil monitoring**
   - Harmonization of soil health monitoring and reporting across Europe; contribution to European Soil Observatory

4. **Soil literacy, communication citizen engagement**
   - Communication, training and advise targeted to different target groups; specialised “soil advisors”

Co-implementation of mission by: researchers, land managers, regions, businesses, policy makers, citizens and international partners
Living labs are a core element of the mission

- They are real-life sites in rural or urban areas in which people from various sectors and backgrounds experiment and test solutions in a co-creative manner.
- Each living lab is composed of about 10-20 sites (e.g. farms, forest stands, urban green areas) working together at regional or sub-regional level.

Lighthouses are sites of exemplary performance with regards to a certain practice

- They are individual sites, such as a single farm, to showcase good practices.
- They are places for demonstrations, training and communication.

Network of 100 Living labs and lighthouses to be built up gradually.

Living labs and lighthouses are key to accelerate the adoption of sustainable practices by users and co-developed methods adapted to the local conditions.
Soil literacy, communication and engagement

- **Foster soil education** across society to bring soils closer to citizens’ values.
- **Engage and activate regions and municipalities** to design their own strategies and actions for the protection of soil
- **Engage with the private sector and consumers** to embed soil health in business practices
- **Strengthen soil health advice and improve access to training for practitioners** in line with AKIS Agricultural Knowledge Innovation Systems
- **Create citizen-led soil stewardship** and citizen science

Examples:

- 200+ co-creation and engagement events since Sept 2019 - **Upcoming: R&I days 2022**
- Social media campaigns including 2 campaigns #EIPAgriSoil; **new one planned in 2022**
- Several articles, press releases, newsletters, 4 videos, 2 factsheets
- 2 Podcast episodes
- 1 Soil health results pack
- Interactive games for kids and adults, including composting training
- Survey sent to **7000+** contacts across Europe and 2500+ contributions received
Useful links

- Mission A Soil Deal for Europe Implementation Plan - EU Mission Soil Deal for Europe Implementation Plan (europa.eu)
- Mission A Soil Deal for Europe factsheet - EU missions - Publications Office of the EU (europa.eu)
- Mission A Soil Deal for Europe - Living Labs factsheet - EU mission, soil deal for Europe - Publications Office of the EU (europa.eu)
- EU Missions - EU Missions in Horizon Europe | European Commission (europa.eu)
- Video EU Mission “A Soil Deal for Europe” - https://youtu.be/3hPIZqwwhhM
- Food for Europe podcast episode 15 Soils in danger: Europe fights back - The Food for Europe podcast | (europa.eu)
- Behind the Scenes podcast episode - S02/E05: A blossoming career as a soil keeper | Behind the Scenes on Acast
- On a mission to save our soils - the EU’s plan to rebuild the land - Futuris episode Euronews
Building the mission's knowledge repository and advancing the European Soil Observatory Innovation Action

HORIZON-MISS-2022-SOIL-01-01

Disclaimer: This presentation is intended to provide a non-comprehensive and feasible overview of the topic; for legally binding information, please, see the Funding and Tender Portal.
EUROPEAN UNION

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.
Improving food systems sustainability and soil health with food processing residues
Research and Innovation Actions

Disclaimer: This presentation is intended to provide a non-comprehensive and feasible overview of the topic; for legally binding information, please, see the Funding and Tender Portal.
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
Soil biodiversity and its contribution to ecosystem services
Research and Innovation Action

HORIZON-MISS-2022-SOIL-01-03

Disclaimer: This presentation is intended to provide a non-comprehensive and feasible overview of the topic; for legally binding information, please, see the Funding and Tender Portal.
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.)
Remediation strategies, methods and financial models for decontamination and reuse of land in urban and rural areas

Research and Innovation Action

HORIZON-MISS-2022-SOIL-01-04
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.
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.
Monitoring, reporting and verification of soil carbon and greenhouse gases balance

Research and Innovation Actions
**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
Network on carbon farming for agricultural and forest soils
Coordination and Support Actions

HORIZON-MISS-2022-SOIL-01-06

Disclaimer: This presentation is intended to provide a non-comprehensive and feasible overview of the topic; for legally binding information, please, see the Funding and Tender Portal.
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
HORIZON-MISS-2022-SOIL-01-07: Foster soil education across society
Research and Innovation Action

Disclaimer: This presentation is intended to provide a non-comprehensive and feasible overview of the topic; for legally binding information, please, see the Funding and Tender Portal.

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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 for 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
POLICY CONTEXT

✓ European Green Deal and its strategies, in particular the Farm to Fork and the Soil Strategy

✓ Mission ‘A Soil Deal for Europe’ (objectives 1 - 6) and in particular the goal of setting up a network of 100 living labs and lighthouses by 2030

EXPECTED OUTCOMES

✓ An effective Support Structure (LL Support Structure) is identified, that coordinates and promotes 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 on 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 previous projects and other EU initiatives.
- Cooperation with JRC (EUSO)
- Due attention shall be given to a balanced geographic and thematic coverage of the LL.
EU MISSIONS

SOIL DEAL FOR EUROPE

HORIZON-MISS-2022-SOIL-01-09

Citizen science for soil health

Research and Innovation Action

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POLICY CONTEXT

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

EXPECTED OUTCOMES

- The public is more awareness about the value of soils.
- Citizens are able to take a more active role in science and in increasing the knowledge base on soils
- Greater availability of local scale data on soil health.
- The EUSO scope is enlarged and populated with citizen science data.
HORIZON-MISS-2022-SOIL-01-09

SCOPE

- Develop a Strategy for the standardised collection, processing and visualisation of soil health data;
- 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 by soil users and the wider community.
- 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!

• Consider language diversity in the EU.
• Collaboration with project under topic HORIZON-MISS-2022-SOIL-01-01 (knowledge repository)
• Collaboration with the JRC and EUSO
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
Thank you!

For further information and questions please contact:

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

OR

Research Enquiry Service