

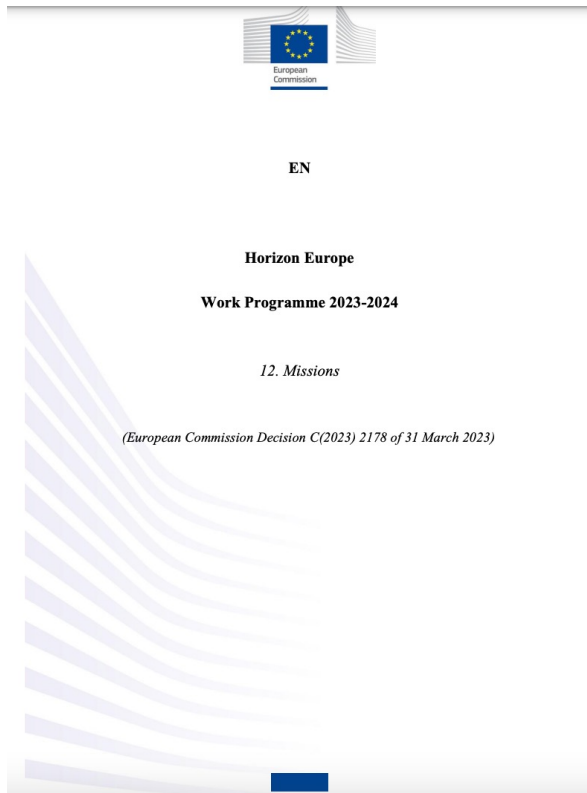
# Mission Soil 2023 Calls

Nikolaos FLORATOS  
TH2020II Training Coordinator

# How to read and understand the Soil Mission Calls 2023

# Soil Mission Calls 2023 Sources

## [Missions 2023 Workprogramme](#)



## [Soil Mission online F&T Portal](#)

The screenshot displays the Soil Mission online F&T Portal. It includes a search bar, filters for "Match whole words only", "GRANTS", and "TENDERS". The "Submission status" section has options for "Forbidding", "Open for submission (9)", and "Closed". The "Programming period" section allows selecting a programme period, with "Horizon Europe (HORIZON)" selected. The "Programme part" section shows "Mission: Soil health and food (9)". The "Destination" section has a dropdown for "Select a Destination...". The "Quick search on specific priorities" section has a dropdown for "Select a Priority...". The "Filter by call" section is at the bottom. The "Funding and tenders (9)" section lists several calls with details:

Programme	Status	Open for submission
Horizon Europe (HORIZON)	Open for submission	Open for submission
HORIZON Innovation Actions	single-stage	single-stage
Opening date	Deadline date	Deadline date
17 January 2023	20 September 2023 17:00:00 Brussels time	
Innovations to prevent and combat desertification		
Horizon Europe (HORIZON)	Open for submission	Open for submission
HORIZON Innovation Actions	single-stage	single-stage
Opening date	Deadline date	Deadline date
17 January 2023	20 September 2023 17:00:00 Brussels time	
Back to earth: bringing communities and citizens closer to soil		
Horizon Europe (HORIZON)	Open for submission	Open for submission
HORIZON Coordination and Support Actions	single-stage	single-stage
Opening date	Deadline date	Deadline date
17 January 2023	20 September 2023 17:00:00 Brussels time	
Discovering the subsoil		
Horizon Europe (HORIZON)	Open for submission	Open for submission
HORIZON Research and Innovation Actions	single-stage	single-stage
Opening date	Deadline date	Deadline date
17 January 2023	20 September 2023 17:00:00 Brussels time	
Soil-friendly practices in horticulture, including alternative growing media		
Horizon Europe (HORIZON)	Open for submission	Open for submission

# Mission Soil 2023 OpenCalls – **Deadline 20/09/2023**

- [HORIZON-MISS-2023-SOIL-01-01](#): Discovering the subsoil
- [HORIZON-MISS-2023-SOIL-01-02](#): Soil pollution processes – modelling and inclusion in advanced digital decision-support tools
- [HORIZON-MISS-2023-SOIL-01-03](#): Onsite digital technologies to monitor nutrients and chemical or biological stressors in soil and plants with relevance for food safety and nutrition
- [HORIZON-MISS-2023-SOIL-01-04](#): Innovations to prevent and combat desertification
- [HORIZON-MISS-2023-SOIL-01-05](#): Soil-friendly practices in horticulture (*cultivation of plants in gardens or greenhouses*), including alternative growing media
- [HORIZON-MISS-2023-SOIL-01-06](#): Soils in spatial planning (*Space arrangements*)
- [HORIZON-MISS-2023-SOIL-01-07](#): Back to earth: bringing communities and citizens closer to soil
- [HORIZON-MISS-2023-SOIL-01-08](#): Co-creating solutions for soil health in Living Labs
- [HORIZON-MISS-2023-SOIL-01-09](#): Carbon farming in living labs
- [HORIZON-MISS-2023-CLIMA-OCEAN-SOIL-01-01](#): **Joint topic**: Mission Climate adaptation, Mission Ocean & waters and Mission Soil Deal for Europe – Joint demonstration of an integrated approach to increasing landscape water retention capacity at regional scale
- [HORIZON-MISS-2023-OCEAN-SOIL-01-01](#): **Joint Topic**: Mission Ocean and Waters and Mission A Soil Deal for Europe - Joint demonstration of approaches and solutions to address nutrient pollution in the landscape-river-sea system in the Mediterranean sea basin

# Definitions for understanding what is expected by the mission Soil (A Soil Deal for Europe) Calls

- **Expected Impacts:** are **long-term benefits** (e.g. within 5 years) from the project **results**
- **Expected Outcomes:** are **short-term benefits** (e.g. by project end) from the project **results**
- **Scale: How many end users** are expected to benefit **per project result** by **End of Project** (EOs) and **later** (e.g. within 5 years after EoP, Els)
- **Significance: How much each** of the end-users is expected to benefit per project result
- **Policy initiatives per call topic:** Useful intelligence (statistics, challenges, roadmaps, further documentation, etc) mainly for the Impact section of the grant application
- **Scope text in each topic:** It outlines the objectives that each funded project should focus and implement
- **Proposals should take into account and build on outputs from other relevant projects:** Establish synergies with the ones mentioned plus any other related to the call title keywords via [Cordis](#)
- **Important Associate Partner:** [EU Soil Observatory \(EUSO\) of the European Commission Joint Research Centre](#)
- **End-users:** Any of researchers, farmers, foresters and representatives of their professional associations, advisors, land managers and owners, spatial planners, food and bioeconomy businesses, consumer associations, local communities, educators, cultural and creative industries, citizens, civil society organisations including NGOs, and government representatives
- **Land manager:** farmers, foresters, urban and spatial planners and other decision- makers in the public or private domain with regard to land use and rural areas
- **Multi-actor topics:** Considers ALL end-users above
- **Living Labs:** 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 a group of sites 10-20 (e.g. farms, forest stands, urban green areas) working together at regional or sub-regional level.
- **Living Lighthouses:** They are **individual sites**, such as a single farm, to showcase good practices. i.e. They are places for demonstrations, training and communication.

# Impacts (Long-term benefits) expected by all funded projects under Mission Soil 2023

1. **EI1:** Increased knowledge on soils and the underlying soil processes is widely available to a range of stakeholders and the wider public, and is used to further **inform science, practices and policies to reduce pressures on soils**
2. **EI2:** Land managers, industries, consumers and society at large **work together, in particular through Living Labs**, to take effective action on soil health across sectors and land uses.
3. **EI3:** A **wide range of innovations – adapted to local conditions** - are in place to address the manifold pressures on soils and improve soil conditions, thus contributing to the specific objectives of the Mission ‘A Soil Deal for Europe’
4. **EI4:** “**Soil literacy**”, awareness and societal engagement, and appreciation of the vital functions of soils is increased, including **awareness on the links between healthy soils, nutritious and safe food and a healthy environment.**
5. **EI5:** More **sustainable methods for soil management** are applied and contribute to healthy oceans and climate adaptation on land.
6. **EI6:** The successful implementation of the Mission **supports several EU policy and international commitments** ranging from **land degradation neutrality, food and nutrition security to biodiversity**

# [HORIZON-MISS-2023-SOIL-01-01](#) Discovering the Subsoil

- **Type of Action:** RIA, Funding per Project: ~ 6M EUR, ~ 2 projects to be funded
- **ALL four** Expected Outcomes to be addressed
- **ALL seven** scope objectives should be implemented
- **Policies to consider:** [Soil Strategy](#), [Farm to fork](#), [Europe fit for the digital age](#), [Fit for 55](#), [Bioeconomy strategy](#), [Chemicals Strategy](#)
- **Important Definitions:** The term “**subsoil**” refers to the horizons immediately below the topsoil. Topsoil is defined as the uppermost layer of natural soil, generally 10-30 cm thick, although this can vary according to soil type.
- **Important Associate Partner:** [EU Soil Observatory \(EUSO\) of the European Commission Joint Research Centre](#)
- **Contact Person from the EC:** Mr. [Arwyn Jones](#)

# HORIZON-MISS-2023-SOIL-01-02: Soil pollution processes – modelling and inclusion in advanced digital decision-support tools

- **Type of Action:** RIA, Funding per Project: ~ 7M EUR, ~ 2 projects to be funded
- **ALL four** Expected Outcomes to be addressed
- **ALL 5** scope objectives should be implemented
- **Policies and initiatives to consider:** [Soil Strategy](#), [Farm to fork](#), [Zero Pollution Action Plan](#), [Europe fit for the digital age](#), [Fit for 55](#), [Bioeconomy strategy](#), [Destination Earth](#)
- **Important Associate Partner:** [EU Soil Observatory \(EUSO\) of the European Commission Joint Research Centre](#)
- **Other Important considerations:**
  - Data and tools can feed effectively and further advance the “Destination Earth” initiative
  - Ensure inter-operability between existing databases and their integration into Destination Earth and the EU Soil Observatory.
- **Contact Person from the EC:** Mr. [Arwyn Jones](#),



[HORIZON-MISS-2023-SOIL-01-03](#): Onsite digital technologies to monitor nutrients and chemical or biological stressors in soil and plants with relevance for food safety and nutrition

- **Type of Action:** IA, Funding per Project: ~ 6M EUR, ~ 2 projects to be funded
- **ALL two** Expected Outcomes to be addressed
- **ALL five** scope objectives should be implemented
- **Policies and initiatives to consider:** [Farm to fork](#), [Europe fit for the digital age](#), [EU FOOD 2030 initiative](#), [Bioeconomy strategy](#),
- **Important Associate Partner:** [EU Soil Observatory \(EUSO\) of the European Commission Joint Research Centre](#)
- **Other Important considerations:**
  - Use Copernicus and/or Galileo/EGNOS (if projects use satellite-base earth observation)
  - TRL 7-8 by EoP
- **Contact Person from the EC:** Mr. [Giuseppe Pellegrino](#),

# HORIZON-MISS-2023-SOIL-01-04: Innovations to prevent and combat desertification

- **Type of Action:** IA, Funding per Project: ~ 7M EUR, ~ 2 projects to be funded
- **ALL four** Expected Outcomes to be addressed
- **ALL six** scope objectives should be implemented
- **Policies and initiatives to consider:** [Soil Mission Implementation Plan](#), Specific Objective 1, Target 1.1: “Halt desertification to help achieve land degradation neutrality and start restoration”, [JRC 2018 World Atlas of Desertification](#), [IPCC 2019 Special Report "Climate Change and Land"](#)
- **Other Important considerations:**
  - Multi-actor approach
  - TRL 5-7 by end of project
  - Collaboration esp. with [PRIMA](#) programme and [NewLIFE4Drylands](#) project
  - International cooperation, esp. with non-EU Mediterranean
- **Contact Person from the EC:** Mr. [Leo Maier](#),

## HORIZON-MISS-2023-SOIL-01-05: Soil-friendly practices in

horticulture (*cultivation of plants in gardens or greenhouses*),

including alternative growing media

- **Type of Action:** IA, Funding per Project: ~ 6.5M EUR, ~ 2 projects to be funded
- **ALL four** Expected Outcomes to be addressed
- **ALL six** scope objectives should be implemented
- **Policies and initiatives to consider:** [Soil Mission Implementation Plan](#), Specific objective 2) “Conserve and increase soil organic carbon stocks”, 4) “Reduce soil pollution and enhance restoration”, 6) “Improve soil structure to enhance habitat quality for soil biota and crops”, [Organic Action Plan](#), [Biodiversity Strategy for 2030](#)
- **Other Important considerations:**
  - Multi-actor approach
  - TRL 5-7 by end of project
  - SSH involvement
  - Associate Partner: JRC of EU Soil Observatory (EUSO) and collaboration with other Mission projects
  - proposals should take into account and build on outputs from other relevant projects such as e.g. [EXCALIBUR](#)
- **Contact Person from the EC:** [Mr. Leo Maier](#),

# [HORIZON-MISS-2023-SOIL-01-06](#): Soils in spatial planning

- **Type of Action:** RIA, Funding per Project: 7M EUR, 1 project to be funded
- **ALL four** Expected Outcomes to be addressed
- **ALL six** scope objectives should be implemented
- **Policies and initiatives to consider:** [Global commitment for land degradation neutrality \(LDN\) under UNCCD](#) -> LDN principle 6: “Apply an integrated land use planning principle that embeds the neutrality mechanism in land use planning”, [EU Soil Strategy](#), ->Roadmap towards no net land take; apply principles of land take hierarchy, [Long Term Vision for Rural Areas](#) -> Sustain ecosystems in urban and rural areas
- **Other Important considerations:**
  - Seek to build synergies between the integration of soils in planning practices with the management of other resources such as water
  - Work together with public authorities to develop strategies for zero net land take by 2050
  - Build on good practices from Third Countries, as appropriate
  - **Associate Partner:** [JRC of EU Soil Observatory \(EUSO\)](#) and link up with the [European Bauhaus](#) and contribute to its objectives and initiatives
- **Contact Person from the EC:** Mrs [Annette Schneegans](#),,

# HORIZON-MISS-2023-SOIL-01-07: Back to earth: bringing communities and citizens closer to soil

- **Type of Action:** CSA, Funding per Project: 6M EUR, 1 project to be funded
- **ALL four** Expected Outcomes to be addressed
- **ALL five** scope objectives should be implemented
- **Policies and initiatives to consider:** (Links provided before) Mission ‘A Soil Deal for Europe’, specific objective 8 “Increase soil literacy across society”, • Education for Climate Coalition, Long-term vision for EU’s rural areas as the Mission is one of its flagship initiatives
- **Other Important considerations:**
  - International organisations with headquarters in a Member State or associated country are exceptionally eligible for funding (e.g. United Nations Educational, Scientific and Cultural Organization (UNESCO))
  - Legal entities established in non-associated third countries may exceptionally participate in this CSA
  - Must: multi-actor approach, SSH
  - Financial support to third parties (grants) max EUR 150 000 each – in total not exceed 40% of the EU funding (approx. 2,4 M euro)
  - Should: create synergies with HORIZON-MISS- 2021-SOIL-02-06 “Engage with and activate municipalities and regions to protect and restore soil health” and HORIZON-MISS-2022-SOIL-01-07 “Foster soil education across society” projects and may explore synergies with related projects from Creative Europe programme
- **Contact Person from the EC:** Mrs [Arianna Pasa](#),,

# [HORIZON-MISS-2023-SOIL-01-08](#): Co-creating solutions for soil health in Living Labs

- **Type of Action:** RIA, Funding per Project: 12M EUR, 3 projects to be funded
- **ALL five** Expected Outcomes to be addressed
- **ALL eight** scope objectives should be implemented
- **Policies and initiatives to consider:** (Links provided before) Soil strategy, Farm to Fork strategy, EU Biodiversity Strategy for 2030, Climate Adaptation Strategy, Zero Pollution Action Plan, Long-term Vision for Rural Areas, Forest Strategy, Organic Action Plan, Soil Deal Mission goal of setting up 100 living labs to lead the transition to healthy soils by 2030, Soil Deal Mission objectives, except number 2, SDG
- **Other Important considerations:**
  - Multi-actor approach;
  - Beneficiaries may provide financial support to third parties (max. EUR 200 K);
  - Capitalize from ongoing projects such as [PREPSOIL](#), [NATIOONS](#), [NBSSOIL](#) and the future Support Structure under the SGA;
  - Interact with networks active at local level, such as [EIP-AGRI OG](#);
  - Associate Partner: JRC EUSO;
  - Agricultural activities should benefit both conventional and organic farming.
- **Contact Person from the EC:** Mrs [Paola Eulalio](#),

# [HORIZON-MISS-2023-SOIL-01-09](#): Carbon farming in living labs

- **Type of Action:** RIA, Funding per Project: 12M EUR, 1 project to be funded
- **ALL five** Expected Outcomes to be addressed
- **ALL seven** scope objectives should be implemented
- **Policies and initiatives to consider:** (Links provided before) as in previous call plus Commission's [Communication on Sustainable Carbon Cycle](#), and [upcoming regulatory proposal on the certification of carbon removals](#);
- **Other Important considerations:**
  - Multi-actor approach;
  - Beneficiaries may provide financial support to third parties (max. EUR 200 K);
  - Capitalize from ongoing projects such as [PREPSOIL](#), [NATIOONS](#), [NBSSOIL](#) and the future Support Structure under the SGA;
  - Interact with networks active at local level, such as [EIP-AGRI OG](#);
  - Associate Partner: JRC EUSO;
  - Agricultural activities should benefit both conventional and organic farming.
- **Contact Person from the EC:** Mrs [Paola Eulalio](#),

[HORIZON-MISS-2023-CLIMA-OCEAN-SOIL-01-01](#): **Joint topic:** Mission Climate adaptation, Mission Ocean & waters and Mission Soil Deal for Europe – Joint demonstration of an integrated approach to increasing landscape water retention capacity at regional scale

- **Type of Action:** IA, Funding per Project: 15M EUR, 1 project to be funded
- **ALL eight** Expected Outcomes to be addressed
- **ALL 2** scope objectives should be implemented
- **Policies and initiatives to consider:** (All policies related to Green Deal, Climate Change Adaptation Mission and Soil Mission Implementation plans), EU Adaptation Strategy, the EU Biodiversity Strategy, EU legislation for the protection of freshwaters (such as the EU Water Framework Directive and EU Groundwater Directive) and the EU Soil Strategy for 2030;
- **Other Important considerations:**
  - The demonstration sites established within the project(s) funded under this topic could qualify as “lighthouses”
  - TRL 6-7 by end of project
  - Multi-actor approach
  - Third-party cascaded grants to 'associated regions' (at least five)
  - Dissemination of best practices to end-users as well as action plan for replication/scalability

- **Contact Person from the EC:** Mr. [Leo Maier](#),



## [HORIZON-MISS-2023-OCEAN-SOIL-01-01](#): **Joint Topic:** Mission Ocean and

Waters and Mission A Soil Deal for Europe - Joint demonstration of approaches and solutions to address nutrient pollution in the landscape-river-sea system in the Mediterranean sea basin

- **Type of Action:** IA, Funding per Project: 16M EUR, 2 projects to be funded
- **ALL eight** Expected Outcomes to be addressed
- **ALL 2** scope objectives should be implemented
- **Policies and initiatives to consider:** (Links provided before as in Green Deal and Soil Mission Implementation plan specific objective oil Mission Implementation Plan, Specific Objective 4: "Reduce soil pollution and enhance restoration", Target 4.2 – reduce fertiliser use by at least 20%, Target 4.3 – reduce nutrient losses by at least 50%) , Support to implementation of [Marine Strategy Framework](#), [Water Framework](#) and [Maritime Spatial Planning Directives](#)
- **Other Important considerations:**
  - Beneficiaries may provide financial support to third parties up to 100K EUR per associated region for solution demonstration.
  - **'Associated regions'** are understood as areas with ecosystems that can benefit from the demonstration activities (e.g. neighbouring regions and/or regions in a different river basin) and/or less-developed regions, with the view to build capacity to implement the innovative solutions to reduce fertiliser use and to prevent, minimise and remediate pollution from excess nutrients. The proposals should ensure that the 'associated regions' are located in Member States/Associated countries other than those that are part of the project consortium.
  - TRL 6-7 by end of project
  - Multi-actor approach incl. land owners, soil/water managers, river manager authorities
  - Third-party cascaded grants to 'associated regions' at least five
  - Dissemination of best practices to end-users as well as action plan for replication/scalability
  - Associate Partner: JRC European Soil Observatory
- **Contact Person from the EC:** Mr. [Leo Maier](#),

# Slido Question: Which one of the current Soil mission calls you are mostly interested?

1. HORIZON-MISS-2023-SOIL-01-01: Discovering the subsoil
2. HORIZON-MISS-2023-SOIL-01-02: Soil pollution processes – modelling and inclusion in advanced digital decision-support tools
3. HORIZON-MISS-2023-SOIL-01-03: Onsite digital technologies to monitor nutrients and chemical or biological stressors in soil and plants with relevance for food safety and nutrition
4. HORIZON-MISS-2023-SOIL-01-04: Innovations to prevent and combat desertification
5. HORIZON-MISS-2023-SOIL-01-05: Soil-friendly practices in horticulture (cultivation of plants in gardens or greenhouses), including alternative growing media
6. HORIZON-MISS-2023-SOIL-01-06: Soils in spatial planning (Space arrangements)
7. HORIZON-MISS-2023-SOIL-01-07: Back to earth: bringing communities and citizens closer to soil
8. HORIZON-MISS-2023-SOIL-01-08: Co-creating solutions for soil health in Living Labs
9. HORIZON-MISS-2023-SOIL-01-09: Carbon farming in living labs
10. HORIZON-MISS-2023-CLIMA-OCEAN-SOIL-01-01: Joint topic: Mission Climate adaptation, Mission Ocean & waters and Mission Soil Deal for Europe – Joint demonstration of an integrated approach to increasing landscape water retention capacity at regional scale
11. HORIZON-MISS-2023-OCEAN-SOIL-01-01: Joint Topic: Mission Ocean and Waters and Mission A Soil Deal for Europe - Joint demonstration of approaches and solutions to address nutrient pollution in the landscape-river-sea system in the Mediterranean sea basin

# Next Steps

1. **Step 1:** Check Cordis for the directly or indirectly linked projects to the mission calls – Use in search keywords from the call topic titles
2. **Step 2:** Identify the contact details of the coordinator from the project websites and communicate with them in order to discuss how you can provide value in a joint initiative under the targeted call
3. **Step 3:** Contact the related Project Officer for any possible additional info
4. **Step 4:** Establish a link with related European Partnerships for the Soil Mission, e.g.
  - [Circular Bio-based Europe](#)
  - [Biodiversa+](#)
  - [Blue economy](#)
  - [Water4all](#)
  - [Accelerating Farming Systems](#)
  - [Transitions Agriculture of data](#)
  - [Safe and Sustainable Food systems](#)



# Congratulations!

You did it! You are familiar now with the essentials behind each of the Soil Mission 2023 calls

# Homework: Applied Knowledge is power

**Knowledge is not power,  
applied knowledge is**

Practice ASAP and apply what you  
learned in session, e.g. Steps 1-4

