

EUROPEAN MISSION SOIL WEEK

Break-out session – Soil health in agriculture

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State of play EU-funded R&I relevant for soil health in agriculture

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Soil health, prominent under Horizon 2020 (2014-2020)

Main areas covered:

- Sustainable management of agricultural soils, including farming practices for soil health (e.g. irrigation, crop management, mixed farming, agroforestry)
- Soil biodiversity
- Soil-water-nutrients nexus (e.g. water quality and quantity, nutrient management, fertiliser use)
- Land management
- Soil carbon sequestration
- · Digital tools and technologies...



















... and many others!





Horizon Europe (2021-2027): instruments to boost soil health





Calls for collaborative projects

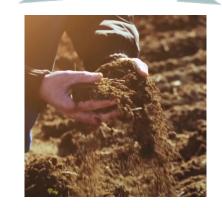
EU Mission 'A Soil Deal for Europe'



Partnerships



...and more











Mission Soil: main focus of running projects (1/2)

Carbon farming:

Network on carbon farming





Soil pollution and restoration (all soils):

Decontamination and reuse of land







Soil biodiversity, land management:

Soil biodiversity and ecosystem services









Circular economy solutions:

- Food processing residues for soil health
- Innovations for soil improvement











Business models:

Developing new business models for soil health













Mission Soil: main focus of running projects (2/2)

Monitoring:

- Validating and further developing indicators for soil health and functions
- Monitoring, reporting and verification of soil carbon and GHG balance







Soil literacy, communication and citizen engagement:

- Foster soil education across society
- Engaging with and activating municipalities and regions to protect and restore soil health
- Fostering soil education across society
- Citizen science for soil health
- Next generation of soil advisors











LL/LH:

- Building capacities for engagement, outreach and knowledge; identifying soil needs in different regions providing direction and capacities for the future national soil health **monitoring mechanisms**, as well as mapping and preparing the implementation of regional LLs.
- Holding engagement sessions (in a "roadshow" format) in all MS/AC to promote the calls for LL as well as to inform and inspire potential applicants.
- Support Structure for LL/LH, the one-stop shop will coordinate, support, enlarge and promote the network of 100 Mission Soil LL/LH. Provide a variety of services to applicants and to LL.
- The first wave of soil health LL:





























Horizon Europe Partnership 'Agroecology' Key facts and state of play

- Objective: to unlock the potential of agroecology as an approach that can help achieve the environmental, economic, climate and social challenges of EU's farming sector
- Launched on 1 January 2024
- Europe-wide initiative: 26 countries (EU, associated countries, one third country))
- Consortium members: national/regional authorities, ministries, funding agencies, research performing organisations, research infrastructures
- Coordinated by Germany (Jülich)
- Activities relevant for all farming approaches
- Expected duration: 7-10 years
- Total tentative budget: EUR 300 million (half provided by the EU)



Soil health in the Partnership 'Agroecology' (I)

One of the common aims: 'Promoting soil health and quality through an appropriate management of organic matter and soil microorganisms, and tillage practices'

Achieving the SRIA's objectives will deliver the following expected outcomes: (...) Improved supply of ecosystem services supporting enhanced crop yield, **soil health**, water quality, (...)

Collaboration with other initiatives, including the EU Mission "A Soil Deal for Europe" => agroecological practices improve soil health



Partnership 'Agroecology' Strategic Research and Innovation Agenda (SRIA)

To Strategic Research and Internation Agenda for the consider European powership

"Accelerating Farming Systems Transitions Agencelogy Living Labs and Research
Infrastructures"



Soil health in the Partnership 'Agroecology' (II)

Theme 1: Enhancing agroecology at the farm level

Manage soil and water to improve **soil health** and significantly reduce erosion, maintain and increase carbon storage, optimise nutrient cycles, reduce the use of contentious chemicals

First call for projects launched on 15 February 2024: https://agroecology.ptj.de/call1 (projects funded will be known by end 2024).

Second call to be published soon





Work Programme preparation cycle

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- New political guidelines
- Relevant policies and strategies, for example, the Common Agricultural Policy (CAP), the EU Soil Strategy and the Soil Monitoring Law (proposal)
- Horizon Europe Strategic Plan 2025-2027
- Mission Soil Implementation Plan
- Analysis of the state of the art including results of Mission Soil projects
- Commission internal consultation on policy needs
- Early involvement and continuos exchange with Member States
- Stakeholder and general public consultation
- Publication of the Work Programme

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Thank you!

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