

Interested in learning more?



PROJECT COORDINATOR



LEITAT Cristina Yacoub Lopez Principal Investigator cyacoub@leitat.org





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S©ILGUARD

Sustainable soil management to unleash soil biodiversity potential and increase environmental, economic, and social well-being





Boost the sustainable use of soil biodiversity to protect soil multifunctionality and increase economic, social and environmental well-being

HOW ?

By co-creating strong evidence of the links between soil management, soil biodiversity, soil multifunctionality and human well-being across biogeographical regions

HOW

CROSS-BIOME NETWORK OF SOILS

198 sites across 8 biogeographical regions and 3 biomes, under different degrees of land degradation in order to:



Assess the role of **sustainable soil management** in maintaining soil biodiversity status and the delivery of 10 soil-mediated ecosystem services



Quantify the contribution of soil **biodiversity** in the delivery of each soil-mediated ecosystem service

ON-FIELD CLIMATE SIMULATIONS

To increase the understanding of the effect of combined climate stressors (droughts and heat waves) on soil biodiversity in **3 different biomes** (agroecosystems, grasslands, forests) across 7 NUTS-2 regions



SOILGUARDIANS APP

A user-friendly, flexible,

predictive tool based on the

causal links between soil

biodiversity, soil

multifunctionality and well-

being





These experiments will assess the impact of future region-specific climate conditions on **soil biodiversity** and **multifunctionality** and compare how these impacts differ between **soil management** types (conventional and conservational).

This will be key to demonstrating the potential of soil biodiversity as a nature-based solution.

GLOBAL PARTNERSHIPS

SOILGUARD will co-create evidence-based recommendations for soil management and conservation policies and framework at EU and international level and will support Member States commitments under the Global Soil Partnership.

INNOVATIVE TOOLS

SOILGUARD NETWORK OF KNOWLEDGE (SNoK)



The SNoK and the connectivity enabled by the SOILGUARDIANS app will create an ecosystem of innovation for users to showcase, learn, and share experiences.

SOIL BIODIVERSITY AND WELL-BEING FRAMEWORK

RESULTS



A conceptual and analytical framework with the potential to become the global standard for future assessments of soil biodiversity status