

AIM

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

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



RESULTS



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**. 

RESULTS

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

RESULTS

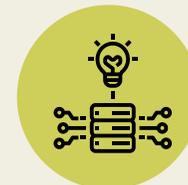
SOILGUARDIANS APP



A user-friendly, flexible, **predictive tool** based on the causal links between soil biodiversity, soil multifunctionality and well-being

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



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