



# WHO WE ARE

 **4**  
YEARS

 **17**  
COUNTRIES

 **25**  
TRANSDISCIPLINARY  
PARTNERS  
WORLDWIDE

 **1**  
GLOBAL NETWORK OF  
KNOWLEDGE

**GLOBAL PARTNERSHIPS**  SOILGUARD has the support and engagement of the GSP, GSBI, SOIL-BON, ITPS, FAO and IPBES.

Coordinated by: **LEITAT**  
managing technologies



*Interested in learning more?*

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# SOILGUARD

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



 The research leading to these results has received funding from the European Union Horizon 2020 Research & Innovation programme under the Grant Agreement no. 101000371.

# 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

**234 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

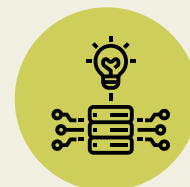
## SOILGUARDIANS APP



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