

Section 1 2022

Farming Systems

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PRIMA
PARTNERSHIP FOR RESEARCH AND INNOVATION
IN THE MEDITERRANEAN AREA



The PRIMA programme is an Art. 185 initiative supported and founded under Horizon 2020, the European Union's Framework Programme for Research and Innovation

Farming systems topic – Section 1



Topic 1.2.1 RIA **S1**

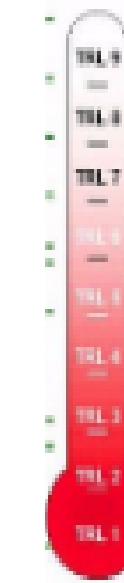
In collaboration
with EU Mission
Soil Deal for Europe



Developing integrated soil data for the
Mediterranean Region: a gateway for
sustainable soil management



8.25 M€



TRL 3-5



2

Submission deadline Stage 1: 15/03/2022

Challenge



MISSION SOIL



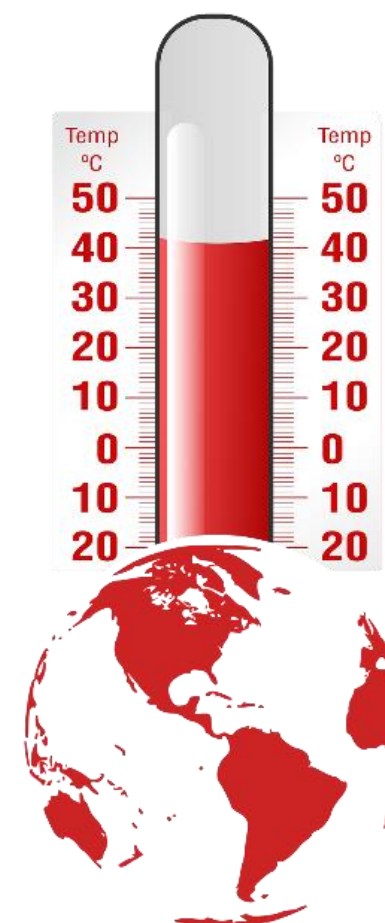
- 60-70% of soils in the EU are considered to be “unhealthy”



- High % of agricultural land in the EU shows excess levels of nutrients



- About 25% of land in Southern, Central and Eastern Europe is at high or very high risk of desertification



SOIL DEGRADATION:

COMPROMISES FOOD SECURITY AND WATER AVAILABILITY IN THE REGION

AFFECTS THE PROFITABILITY OF SMALLHOLDERS AND THE ACCESS TO FRESH FOOD IN SOME REGIONS

AVAILABLE DATA IN THE SOUTH MED REGION ARE SCARCE



Scope



- Improve soil health monitoring & prevent degradations
- Identify the gaps in data availability for soil health in the region
- Develop or adapt a set of INDICATORS / METHODS FOR MEASURING SOIL HEALTH (PHYSICO CHEMICAL AND BIOLOGICAL PARAMETERS)
- Harmonize and standardize data / methods to ensure interoperability and comparisons (field observation, satellite images, lab)



Approach

- Take advantage of previous Projects and methodologies and create synergies

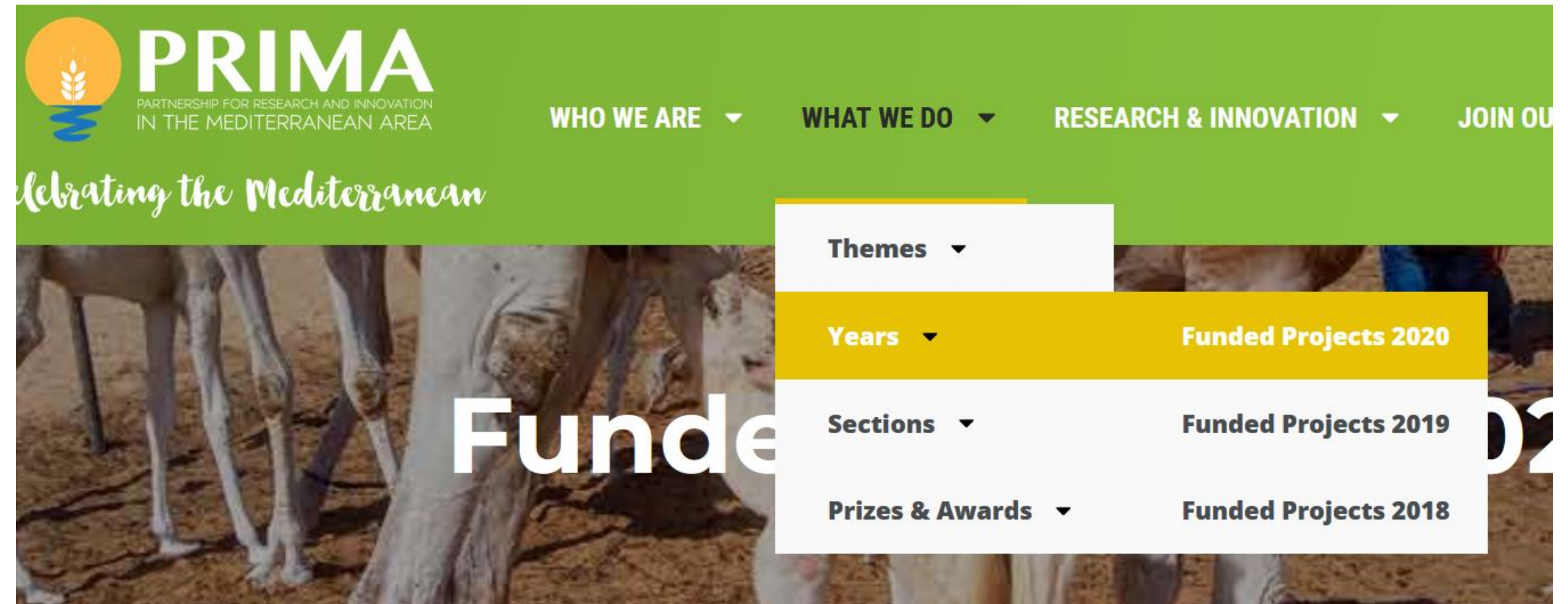
#PRIMA projects

LUCAS project

JRC soil atlas

soilcare

soils4africa



- Mapping of Research centers and certified living labs for soil health

European
Network of
Living Labs

- Multi actors (scientists, land planners, farmers, municipalities, private sector, citizens...) to ensure the sustainability / availability of the data on the long term



- Promote “on the ground events” with the #EU MISSION SOIL

Expected Impacts

- Short term:

Creation of MED Living labs integrated to the Living Lab EU network / be a reference center for soil

Propose clear and standardized methodologies and Indicators for soil health

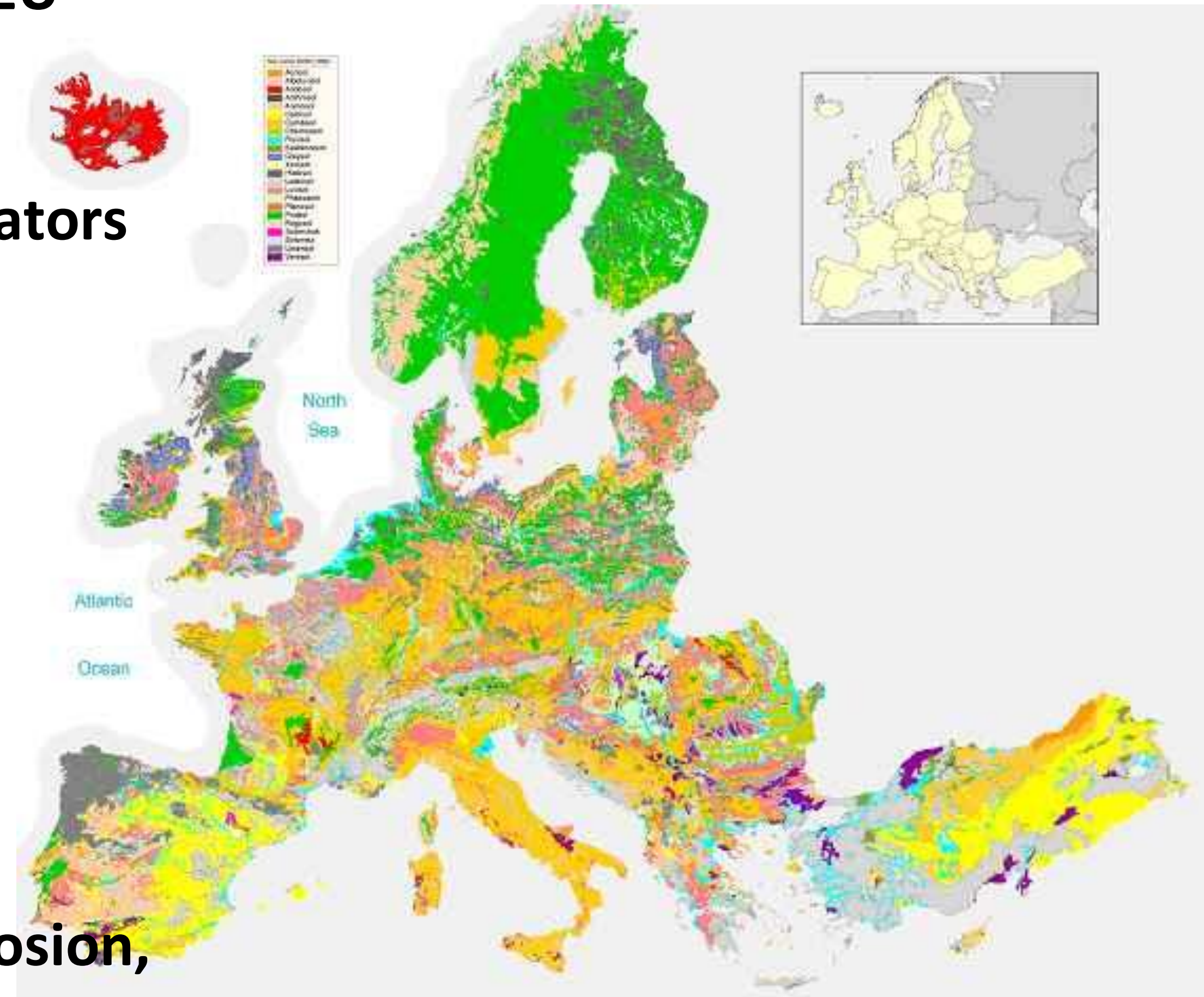
Obtain better soil information systems to prevent land degradation

Contribute to the soil Atlas of the Mediterranean Region

- Long term:

Assess the impact of different practices on soil health, erosion, salinization, desertification.....

Solution to Increase carbon sequestration and to mitigate land degradation



Links with SDGs



SDG 2 (zero hunger), to ensure sustainable food production systems and implement resilient agricultural practices that increase productivity and production, that help maintain ecosystems, that strengthen capacity for adaptation to climate change, extreme weather, drought, flooding and other disasters and that progressively **improve land and soil quality**.



SDG 3 (good health and well-being), by enhancing **food security** and other livelihood benefits, and by increasing the resilience of the land and the populations depending on it;



SDG 6 (clean water and sanitation), through its contribution to sustainable water management



SDG 13 (climate action), by increasing resilience and creating synergistic actions for climate change adaptation and mitigation, for example, by **increasing soil carbon stocks**;



SDG 15 (life on land), which focuses on the achievement of land degradation neutrality, by providing a suite of targeted, **appropriate land management practices that prevent the loss of healthy land and maintain or improve the land's productivity**.



Thank you

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