

# PRIMA – SECTION 1

## Topic 2: Improving the sustainability of Mediterranean agro-ecosystems

Overall budget: € 6,1 million

**3 projects are expected to be funded**

Submission deadline

Stage 1: 17th April, 2018. 17:00h CET.

Stage 2: 15th September, 2018. 17:00h CET

### 01. List of countries, Consortium conditions, Guidelines for Applicants, and Proposal template

**EU Countries:** Croatia, Cyprus, France, Germany, Greece, Italy, Luxembourg, Malta, Portugal, Spain, Slovenia.

**Non EU Countries:** Israel, Tunisia, Turkey, Algeria, Jordan, Egypt\*, Lebanon\* and Morocco.\*

\*These countries agreements with PRIMA Foundation did not enter into force yet. Although it is expected to do during the current year, it is advisable to fulfil the consortium admissibility requirements without these countries partners.

**Consortium** must present at least three eligible partners from three different countries, being at least one EU country and one non EU country.

**Stage 1 proposal template:**

<http://prima-med.org/wp-content/uploads/2018/02/PRIMA-Pre-proposal-Template-Stage-1.docx>

**Guidelines for Applicants 2018:** Very similar to H2020 in terms of kind of actions, funding schemes, participant's eligibility, evaluation criteria, etc. Please check the official Guidelines for Applicants in the following link:

<http://prima-med.org/wp-content/uploads/2018/02/PRIMA-Guidelines-for-Applicants-Section-1.pdf>

### 02. Challenge

In the last decades a substantial proportion of agriculture in the Mediterranean area has been modernized and intensified. However, yield increases are still insufficient to face the ever-growing food demand. Furthermore, unsustainable intensification of practices has often led to pollution, overexploitation of natural areas and resources, loss of fertility of agricultural land, soil erosion and salinization, runoff, and in some cases desertification.

The objective of this call for proposals is to develop Mediterranean innovative cropping and livestock systems including inland aquaculture, able to cope with limited resources and environmental constrains while enhancing food production stability over time and ensuring a production of high quality agricultural outputs that will allow increase in farmers' income and preserve agro-ecosystems integrity and services.

### 03. Scope

This objective should be met by developing innovations at the level of the cropping, livestock or farming systems, taking into consideration the social, economic and environmental aspects. The projects should target the Mediterranean crops, animals and the Mediterranean farming systems and the specificities of their natural Mediterranean environment.

Design of new production systems should allow adaptation of the Mediterranean farming systems to climate change, reduction and optimization of use of natural resources in particular water and/or potentially polluting inputs (e.g. pesticides, organic and mineral fertilizers, manure and antibiotics), management of soil conservation and/or decrease in erosion and soil salinity.

Research projects are expected in the following thematic areas: better linkage between livestock (including freshwater aquaculture, as a component of proposals for agro-ecosystem projects) and crop production; a range of different systems should be included (e.g. organic farming, agroecology, agroforestry, ...) as well as their resilience to climate change impacts taken into account; valorising existing biodiversity through sustainable use of underexploited and new species, breeds or varieties of interest in farming systems; development of production of legumes or use of other local Mediterranean varieties/ species and its insertion in cereal soles, crops rotations and crops association. The projects could include the use of innovative technologies, such as digital technologies, smart space data and related data and technologies.

The inclusion of end-users (farmers' organisations, extension services, farmers, food industry, NGOs and consumer associations) in the research consortiums is encouraged to speed up innovation. Projects should consider the involvement of the different type actors as part of the Agricultural and Knowledge Innovation System and the multi-actor approach.

**Technology Readiness levels (TRL): 3 to 5**

### 04. Expected impact

Projects funded under this call for proposals must target Mediterranean farming systems taking into consideration the specificities of the Mediterranean climate and ecosystems. Project could deal with crops and/or animals systems. Projects should contribute to develop and propose new sustainable production systems by reducing negative impacts on the environment while increasing yields. The solutions proposed should increase the viability of farms and the incomes of workers thereby social aspects and employment should be considered.

More specifically, the impacts expected from the projects should concern one of the point listed below (potentially several):

- Development of low-input systems with high productivity and low environmental impact
- A more appropriate use of lands by diversified ago-ecosystems, integration of ecosystems services and mix cropping-livestock activities is expected
- Integration of ecological, agronomical and socio-economic knowledge to design and assess efficient productive systems based on agroecological concepts and to address the difficulties of transition of technical practices
- Promote and develop a sustainable use of underexploited and/or new species and Improved local species / breeds / products and farming systems best suited to Mediterranean conditions