Thematic Area Farming systems topics in 2019 calls

Priority 1 Adaptation of agriculture to climate change
Priority 2 Developing sustainable and productive agro-ecosystems

Section 1

Topic 1.2.1 RIA Conserving water and soil in Mediterranean dry-farming, smallholder agriculture.
Topic 1.2.2 IA Sustainability and competitiveness of Mediterranean greenhouse and intensive horticulture

Section 2

Topic 2.2.1 RIA Small scale farming systems innovation.
Topic 2.2.2 RIA Use and management of biodiversity as a major lever of sustainability in farming systems

DISCLAIMER Preliminary information, AWP has not been approved by European Commission yet
SECTION 1: Topic 1.2.1 RIA Conserving water and soil in Mediterranean dry-farming, smallholder agriculture

Challenge

**Conservation Agriculture**

- Save water
- Conservation soil
- Low cost solution

NOT ADOPTED IN THE MED AREA: WHY?

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SECTION 1: Topic 1.2.1 RIA Conserving water and soil in Mediterranean dry-farming, smallholder agriculture

Scope

Identify the barriers for the adoption of Conservation Agriculture and to promote its use in the Med

What are the limitations?
- SOCIO ECONOMICS BARRIERS?
- TECHNICAL / TECHNOLOGICAL BARRIERS?
- POLICIES GAPS?
- Multidisciplinary and inter-sectorial approach

Innovations / solutions
**Topic 1.2.1 RIA Conserving water and soil in Mediterranean dry-farming, smallholder agriculture**

**Expected Impacts**

- Policies-technologies-products Co designed with the farmers that will facilitate the adoption of CA
- Cropping systems limiting soil erosion and increasing the water plant availability based on Conservation Agriculture concept
- Eco friendly farming systems providing benefits for the end-users
- Improve fertility of soils and yields

**Budget for the call:** 4,5 M€  
**Budget per project:** 1,5M€  
**Duration:** 36-48 months
SECTION 1: 1.2.2 IA Sustainability and competitiveness of Mediterranean greenhouses and intensive horticulture

Challenge

- Greenhouses and intensive horticulture can produce food all year round
- Important for the international trade and food security
SECTION 1: 1.2.2 IA Sustainability and competitiveness of Mediterranean greenhouse and intensive horticulture

Scope

Design the greenhouses and intensive horticulture systems respecting the 3 pillars of sustainability and including agro ecological techniques

- Connect SME and industries with growers
- Circular Approach
- Stop leaks and eutrophication
- New biodegradable materials
- Development of DSS
- Soilless systems
- Sensor and robotics
- Efficient in term of climate control, fertilisation, IPM
- Training

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SECTION 1: 1.2.2 IA Sustainability and competitiveness of Mediterranean greenhouse and intensive horticulture

Expected impacts

• Innovative and Competitive systems preserving the resources and the environment
• Improve working conditions
• Digital tools to assist the farmers
• Production of safe, healthy, Organic food

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Budget for the call: 6,4 M€
TRL 5-8

Budget per project: 1,6 M€
Duration 36-48 months
SECTION 2: Topic 2.2.1 RIA Small scale farming systems innovation

• Challenge

Small farmers are the main food producers but ...

- Hard living conditions
- Lack of information / coordination among small farmers
- Technological innovations are not tailored for small holders
SECTION 2: Topic 2.2.1 RIA Small scale farming systems innovation

Scope

Creation of living labs: a tool to make innovation available to users

- Can be physical or virtual
- Provide/test solutions and innovations tailored made for small holders
- Based on agro ecological principles
- Continuous exchange between all the actors
- Ensure training and capacity building
SECTION 2: Topic 2.2.1 RIA Small scale farming systems innovation

Expected impacts

- Facilitate technology transfer to small holders
- Enhance the sustainability of the small scale farms
- Contribute to a balanced territorial development
- Create employment and opportunities for youth

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Budget per project: 1 M€
Duration 36-48 months
SECTION 2: Topic 2.2.2 RIA Use and management of biodiversity as a major lever of sustainability in farming systems

Challenge

3 crops: maize – wheat – Rice represents more than 50% of the vegetal calories consumed in the word

Monoculture damage soil and water resources

Intensive use of chemicals

Med area is a hotspot a biodiversity
SECTION 2: Topic 2.2.2 RIA Use and management of biodiversity as a major lever of sustainability in farming systems

Scope: Develop farming systems based on agro ecological principles using and valorising local biodiversity

- Increase the biodiversity increase the resilience of the system
- New food products
- Interdisciplinary and inter-sectorial approach
- Ecological and Socio economic analysis of the sustainability of the system

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SECTION 2: Topic 2.2.2 RIA Use and management of biodiversity as a major lever of sustainability in farming systems

Expected Impacts

• Increase the resilience of Agro ecosystems

• Give added value to the final / new product to increase the incomes of the farmers

• Protect and Valorise the local biodiversity

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Budget per project: 1 M€
Duration 36-48 months