



PRIMA

PARTNERSHIP FOR RESEARCH AND INNOVATION
IN THE MEDITERRANEAN AREA

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Info day BARCELONA: Farming systems Topics

4th December 2018, Barcelona, Spain

Thematic Area Farming systems topics in 2019 calls



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

RIA 1.2.1

IA 1.2.2 RIA 2.2.1

RIA 2.2.2

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

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?

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

Scope

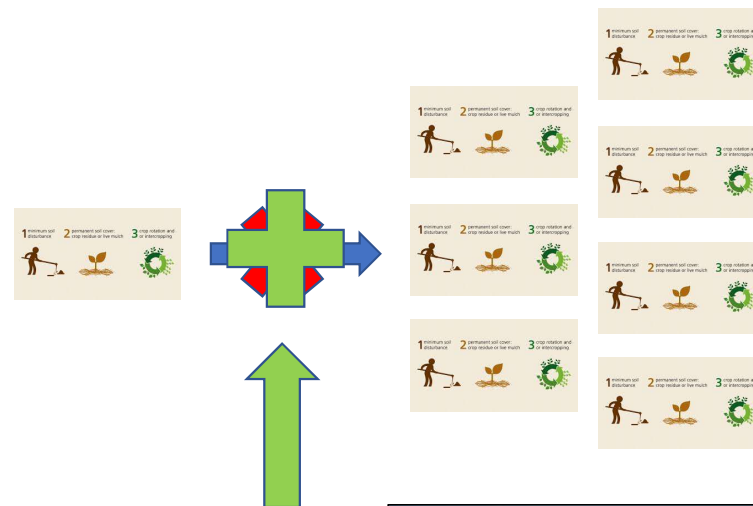
Identify the barriers for the adoption of Conservation Agriculture and to promote its use in the Med

What are the limitation?

- **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



4/ SMART AND SUSTAINABLE FARMING

To develop smart and environmentally sustainable farming systems to maintain natural resources and to increase production efficiency

- 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

DISCLAIMER Preliminary information, AWP has not been approved by European Commission yet

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



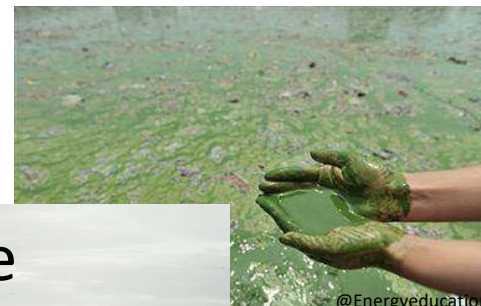
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SECTION 1: 1.2.2 IA Sustainability and competitiveness of Mediterranean greenhouse and intensive horticulture

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



@Lee-Anne Armitage



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European Commission yet

Budget for the call : 6,4 M€
TRL 5-8

Budget per project: 1,6M€
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

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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**

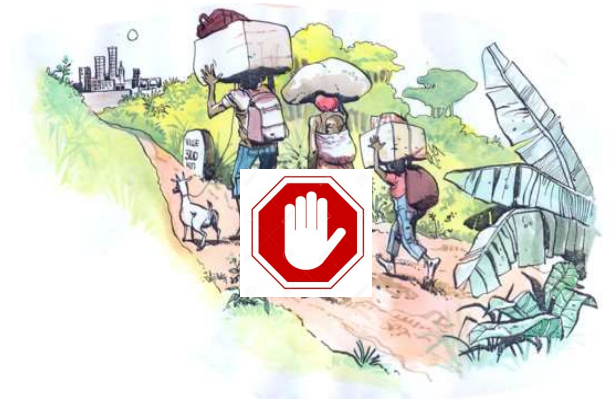
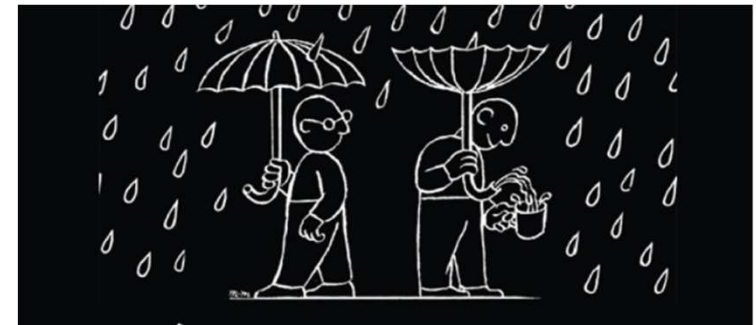


- Can be physical or virtual
- Provide /test solutions and innovations tailored made for small holders
- Based on agro ecological principles
- Continuous exchange between all the actors
- Ensure training and capacity building

📍 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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European Commission yet

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 world

Monoculture damage soil
and water resources

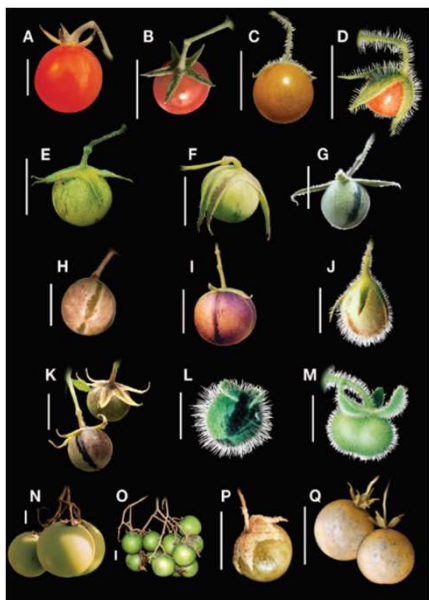
Intensive use of chemicals

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



• 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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Duration 36-48 months