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Section 1 2020

Topic 1.1.1 (IA) Implementing sustainable, integrated management of water resources in the Mediterranean, under climate change conditions

Section 2 2020

Topic 2.1.1 (RIA) Low cost, lean solutions for enhancing irrigation efficiency of small-scale farms

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Topic 1.1.1 (IA) Implementing sustainable, integrated management of water resources in the Mediterranean, under climate change conditions

Challenge

Med is an **arid, water-scarce** region, experiencing adverse effects of **climate change**

- Reduced **water availability** affects agricultural production and incomes
- Increased **food insecurity**, poverty, conflicts in water use
**Topic 1.1.1 (IA) Implementing sustainable, integrated management of water resources in the Mediterranean, under climate change conditions**

**Scope**

Integration of **CCA** into **IWRM** for improved water allocation

- **Improved water accounting** to obtain reliable estimates of consumptive use
- **Representative Med demo cases** (climate, water conditions, etc.)
- **Calibration and validation of models predicting climate change impact**
- **Participatory approach**: coordination of stakeholders (water managers and users)

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Topic 1.1.1 (IA) Implementing sustainable, integrated management of water resources in the Mediterranean, under climate change conditions

Expected Impacts

- Improved regional, national, transboundary water governance
- Better water use (esp. irrigation), saving and preservation
- Avoid impacts on other natural resources and ecosystem services
- Socio-economic benefits, equitable allocation to prevent conflicts

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KPIs – Key Performance Indicators

- Number of applied R&I solutions to the challenges of water management
- Number and efficiency performance of new irrigation technologies and scheduling protocols and models;
- SDG#6: indicator 6.5.1 Degree of integrated water resources management implementation (0-100)
Topic 2.1.1 (RIA) Low-cost, lean solutions for enhancing irrigation efficiency of smallholder farmers

Challenge

- Med population growing at fast pace
- Changing food consumption patterns

Need to increase food production!
- Crop yields
- Crop intensity
- Agricultural land

Widening the use of efficient irrigation technologies and practices among small farmers!

Challenge: Advanced irrigation methods and systems not usable by smallholder farmers, due to:
- high costs (initial, maintenance, etc.)
- skills to master the technology

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Scope

From high-cost, high-tech to low-cost, lean solutions for efficient irrigation

Sectoral policies, schemes and governance frameworks supportive of small farmers

Increase crop yields while allowing for higher water savings

Demonstration and capacity building for farmers, to validate and adopt proposed technologies, tools and practices

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Expected Impacts

- **Capacity** to implement efficient irrigation systems
- **Profitability** of irrigation generating sustainable income

= **Improved living standards** of Med small farmers

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Topic 2.1.1 (RIA) Low-cost, lean solutions for enhancing irrigation efficiency of smallholder farmers

KPIs – Key Performance Indicators

- Number and efficiency performance of new irrigation technologies and scheduling protocols and models.
- SDG#6: indicator 6.4.1 Change in water-use efficiency over time

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Thank you!

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