Topic 1.1.1–2024 (IA)
Sustainability of Mediterranean irrigated agriculture through the implementation of the WEFE Nexus approach

Ali RHOUMA, Project Officer
Topic 1.1.1 IA

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Submission deadline Stage 1: 02/04/2024
Irrigated Agriculture

30% Cropland irrigated
40% Food Production

Irrigated Agriculture >70% Of Global blue water
Challenge

IRRIGATED AGRICULTURE

Increase irrigated areas

Trade-offs

Carbon emissions (CO2 and other GHGs)

Energy (fossil fuel)

Overexploitation of water resources

Switch to more water consumption crops

Innovative technologies

Fertilisers

Pesticides

Soil pollution

DISCLAIMER Preliminary information, AWP has not been approved by European Commission yet
Assemble innovative solutions and test them in a combined way
- Nature-based solutions
- Smart irrigation solutions
- Agro-ecology practices

Appropriate indicators
- Crop Yield
- Water use efficiency
- Energy productivity
- Ecosystem benefits
- Trade-offs/Synergies associated to the solutions

Assess the environmental impact of Entire value chain
- Life Cycle Analysis
- Ecological foot print analysis

Sustainability/profitability
- Adoption and scaling up of the innovative solutions
- Reduce the financial risks of early adopters of developed solutions

Recommendations for improved and targeted incentives and policies

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Particular attention is given to water providers, policymakers, and civil societies. Large demosites and completed projects are highlighted. Technology adoption, stakeholder engagement, and policy development are key areas of focus.


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Expected Impacts

Reduce pollution and soil salinisation

Efficient and sustainable use of resources

Increased resilience of irrigated agriculture

More effective policies and governance

Adoption by farmers and end-users of WEFE solutions

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Key Performance Indicators

- **Energy Efficiency**: Improve the energy efficiency
- **Water Usage**: Reduction of Water use in irrigated agriculture
- **Stakeholders**: NB. Stakeholders engaged
- **Business Models**: Nb. Business Models

- **% Energy Efficiency**: 20%
- **% Water Reduction**: 20%
- **Nb. Stakeholders**: 50
- **Nb. Business Models**: 1

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Target 7.3: energy efficiency and promote the use of renewable energy sources

Target 2.4: sustainable food production systems and implement resilient agricultural practices

Target 6.4: increase water-use efficiency across all sectors

Target 15.1: conservation, restoration, and sustainable use of terrestrial and inland freshwater ecosystems and their services

Target 13.1: Strengthen resilience and adaptive capacity to climate change

Target 12.6: Efficiency of resource use in production

Links with SDGs

Links with EU Policies

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PRIMA INFO DAY 2024

Thank you

Ali Rhouma, Project Officer

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