NEXUS Water Energy
Food Ecosystems

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PRIMA
PARThNERSHIP FOR RESEARCH AND INNOVATION
IN THE MEDITERRANEAN AREA

PRIMA is supported under Horizon 2020,
the European Union’s Framework Programme
for Research and Innovation
Call 2022 W.E.F.E Nexus Topics

**Topic 1.4.1 (IA)**
Predicting and testing options of socio-economic adaptation to declining Water-Energy-Food-Ecosystem (WEFE) resources in the Mediterranean Region

**Topic 1.4.2 (CSA)**
Development of a Mediterranean Water-Energy-Food-Ecosystem (WEFE) Community of Practice

**WEFE NEXUS AWARD**
Successful implementation of management practices of WEFE resources at the local or regional scale of the Mediterranean Region.
Challenge

Topic 1.4.1-2022 (IA): Predicting and testing options of socio-economic adaptation to declining WEFE resources in the Med. Region

- Conflict on Resources
- Displacement / Migration
- Change in consumption patterns
- Loss of traditions and culture

Increasing vulnerability of populations

Cross-sectoral Nexus WEFE policy actions

Need of long term adaptation measures
SCOPE

Previous Calls

DPSIR Framework

Call 2022

• Go beyond an assessment of biophysical state
• In 2022, the focus is enlarged to address the Socio-economic impacts of the Nexus approach

Social-ecological

Units

Demonstration Sites
Socio-innovation adaptation in different context

Analyse WEEF production and consumption structures.

Impact on the Life-Supporting abilities and local communities' social and economic performance.

Specific methodologies necessary for the co-development in a participatory approach of transformative Nexus Solutions

Monitoring of strategies qualitative and quantitative impacts WEEF resource indicators

Strategies and Policies that boost long adaptation capacity

Stakeholder Involvement

WATER PROVIDER
NGO
SME
EXPECTED IMPACTS

- **Increase resilience to climate change**, ensuring good quantitative and qualitative status of water, sustainable agriculture, food and energy production, and healthy ecosystems.

- **Integration of Nexus considerations into public and business decision-making** at different governance levels.

- **Increase the socio-economic livelihood conditions** of vulnerable populations.

- **Share best Nexus practices** across disciplinary silos in a context of combined natural, economic and social systems.
Transition

Robust coordination between Stakeholders

WEFE Nexus approach

Demonstrations sites

Communities of practice

Nexus WEFE Evidences To stakeholders

Resistance to the deployment of Cross sectoral WEFE Nexus

Transition
Synergies with other established platforms
(As an Example the Sustainable Food Systems Multi-Stakeholder platform)
**EXPECTED IMPACTS**

**SHORT TERM**

*Promote /Support* the deployment of regional demonstration cases

Contribute to the development, testing and dissemination and replication of WEFE Nexus solutions

**LONG TERM**

Foster the shift from sectoral WEFE management towards an *integrated resource-use approach* by sharing knowledge on the Nexus approach

Enable a long-lasting cooperation within and between demonstration areas
Key Performance Indicators (IA/CSA)

1. **Degree of integration** between water related policies (environmental, climate, agriculture) and energy policies (IA/CSA)

2. **Number of stakeholders** involved in:
   - Innovative experiments (IA)
   - The NCoP (CSA)

3. **Number of Nexus demonstration cases**:
   - As socio-innovative adaptation experiments in different contexts (IA)
   - Engaged in the NCoP (CSA).
Links with EU Policies and SDGs

**Links with SDGs**

SDG2  +  Other Relevant SDGs  →  Relevant SDG Target

SDG6

SDG7

**Links with EU Policies, HE Mission’s and partnerships**

- European Green Deal
- Water Forum Directive
- Farm to fork strategy
- Biodiversity strategy
**WEFE NEXUS AWARD**

- **Socio-economic benefits**
  
  Demonstrate the socio-economic benefits of the proposed WEFE solutions

- **Results’ uptake**
  
  Demonstrate that the proposed WEFE solutions have been adopted by the end-users (in particular policy makers)

- **Replication and upscaling**
  
  Demonstrate the replication and upscaling potential of the proposed WEFE solutions
Thank you

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