

# A collaborative effort for optimising Water, Energy and Food in the mediterranean basin.



## What is the NEXUS and why is important

The tight interconnected nexus between the Water, Energy, Food and Ecosystem (WEFE) components clearly highlight the need for a joint planning in terms of international cooperation, in order to meet global challenges and achieve the UN Sustainable Development Goals (SDGs).

A recent position paper published in 2019 by the Joint Research Centre of the European Commission, stressed the relevance of the WEFE Nexus to policymakers and industry at the European level, requiring collaborative efforts across sectors through transparent and accountable decision-making, involving civil society in order to successfully move towards a sustainable development that takes into account the Nexus approach.



## Advanced solutions for different uses

The projects in this group focus on WEFE Nexus environment, both from the PRIMA Program and the wider Horizon 2020 landscape, expanding the geographical scope also beyond the Mediterranean region.

The projects offer relevant exploitable results, such as:



## Key results



Methodologies and procedures for WEFE collaboration



Training materials on WEFE nexus



Provision of a collaborative Multi Stakeholders User Platform



Implementation of ecosystems indicators in the WEFE context



## Challenges



### Societal:

Raising awareness among policymakers and relevant stakeholders (such as energy supplier, water authorities, SMEs) of topics such as: climate action, environment, resource efficiency food security, sustainable agriculture and forestry, marine bioeconomy research, as well as of their interlinkages.



### Scientific:

Developing a collaborative platform that collects data from Water, Energy, Food and related Ecosystems (WEFE) to help decision makers with analytic insights.



### Industrial:

ScientCreating the ideal framework for an efficient transition for the agricultural and energy sectors.

CLIMATE CHANGE, FOOD,  
WATER, ENERGY





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## Who benefits?



Policy makers & Funding Agencies



Civil Society, NGOs



Researchers & Academia



### SIGMA Nexus

Contributing to economic, social and technical aspects of research on resilient and productive agro-ecosystems

[www.sigma-nexus.eu](http://www.sigma-nexus.eu)



GA 1943



### AWESOME

Developing a decision-analytic platform based on a multi-level, integrated WEFE model

[awesome-prima.eu](http://awesome-prima.eu)



GA 1942



### NEXUS-NESS

Producing and testing shared management plans for safe and sustainable allocation of resources

[prima-nexus-ness.org](http://prima-nexus-ness.org)



GA 2042



### NEXOGENESIS

Facilitating the next generation of effective and intelligent water-related policies through the use of artificial intelligence tools

[nexogenesis.eu](http://nexogenesis.eu)



GA 101003881



### GoNEXUS

Integrated solutions for water, energy, food and ecosystems

[gonexus.eu](http://gonexus.eu)



GA 101003722



### Rexus

Managing Resilient Nexus Systems Through Participatory Systems Dynamics Modelling

[www.rexusproject.eu](http://www.rexusproject.eu)



GA 101003632



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