

BIOMEnext

MODELLING INTEGRATED BIODIVERSITY-BASED NEXT GENERATION MEDITERRANEAN FARMING SYSTEMS



SPECIFIC OBJECTIVES

The BIOMEnext overall objective is to implement **innovative, composite and eco-friendly farming systems**, to enhance the resilience of Mediterranean olive growing to climate change, a major challenge for agriculture.

The project aims to design an olive grove which combines, in a holistic logic:

- the valorization of **traditional genotypes** showing the best resilience traits;
- the development of **new microorganism consortia**, able to increase biotic and environmental stress tolerance;
- the introduction of **new practices and remodelization of the traditional ones** to reduce external inputs and the negative discharges to the environment.



Valorize local unconventional varieties and wild olives from extreme environments and develop new stress-tolerant and eco-friendly hybrids



Identify microbial consortia able to enhance abiotic stress tolerance and improve plant nutrition at the whole field level



Develop new efficient farming systems and remodel traditional agricultural practices to reduce water and chemical inputs, limit emissions, and enhance CO2 sequestration



Assess environmental and socio-economic impacts of newly developed crop systems

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