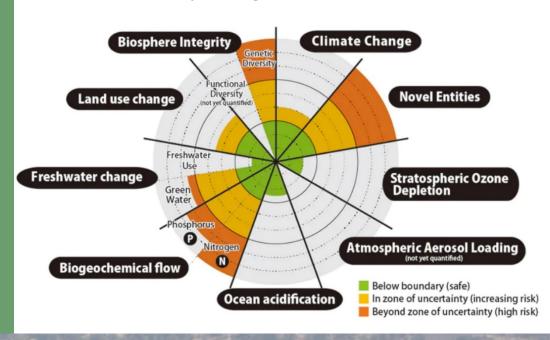


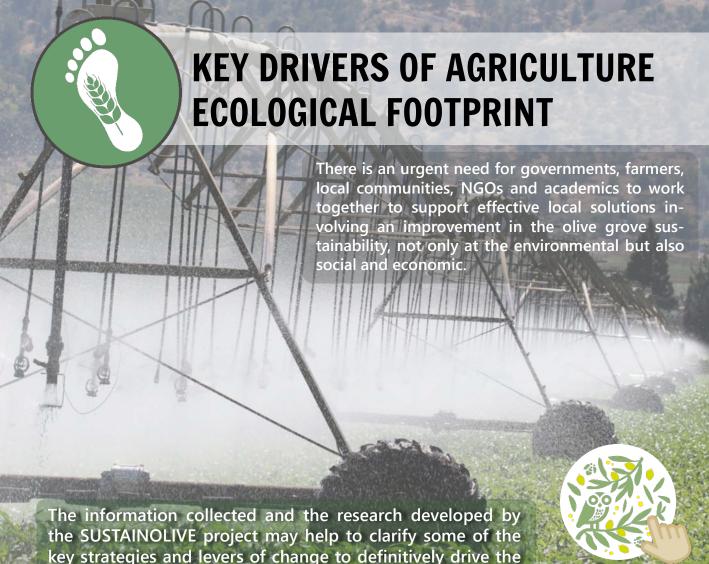
CURRENT STATUS OF PLANETARY BOUNDARIES

Five of the 9 planetary boundaries are in the high-risk zones, with agriculture being the main driver for four of them. The need for large-scale food production is an unquestionable fact, as is the need to move towards a more sustainable agricultural model.

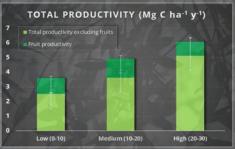
Source: Azote for Stockholm Resilience Centre, based on analysis in Wang-Erlandsson et al 2022

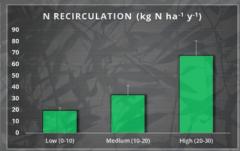


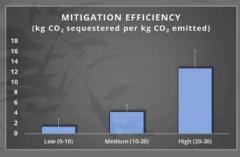
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transformation of the olive grove and olive oil sector.







Nature-based solutions Index

The SUSTAINOLIVE project team has conclusively demonstrated how the implementation of a combination of eco-friendly technological solutions leads olive farms to competitive advantages.



SUSTAINABLE SOLUTIONS FOR THE OLIVE GROVE SECTOR

The overwhelming amount of scientific evidence compiled by SUSTAINOLIVE should be a compeling incentive for politicians to make decisions aimed to promote and foster the implementation of sustainable technological solutions in the olive cultivation. Ultimately, new guidelines on ecological transition of olive grove should be treated as a key priority across the Mediterranean olive grove sector.



Stakeholders of the olive oil sector believe that among the most important policy actions to foster a sustainable agriculture are initiatives to...

... carry out effective processes to communicate updated information on environmental and health impacts of intensive agriculture.

It is important to raise awareness on how our actions and activities produce impacts on the environment and how those also impact our health. The Paris Agreement recognizes the "right to health", and also the "social, economic and environmental value of voluntary mitigation actions and their cobenefits for adaptation, health and sustainable development".

... accelerate the training and formation of farmers with courses on cover crop identification and implementation.

Cover crop is recognized as one of the most effective agronomic solutions to be implemented in olive cultivation. It improves soil organic matter content, prevents from soil erosion, reduces nutrient leaching, etc. How to manage cover crops should be a basic knowledge accessible to olive farmers.



2

Stakeholders of the olive oil sector believe that among the most important policy actions to foster a sustainable agriculture

are initiatives to...



...invest in training courses for farmers on reusing/composting the byproducts generated by olive groves.

A training program for organic composting would reduce the lack of specific skills of olive farmers on this issue. Regional and local governments are called to design **specific courses** to improve rural development under the European agriculture policy (CAP Pilar II).

...promote specialized training for advisor technicians on sustainable technological solutions.

is an effective approach to sustainable agriculture. The know-how involving sustainable technological solutions would be carried out by universities, colleges and research centers specialized in applied agroecology.

...invest in communicating potential cost savings using sustainable technological solutions.

It is important to aware farmers on how sustainable agriculture can lead to increased productivity and profitability by reducing costly inputs (e.g. fertilizers and herbicides) and boosting a better use of renewable energy sources. Additionally, sustainable agriculture practices lead to mitigate climate change by sequestering carbon in the soil and reducing greenhouse gas emissions.

Stakeholders of the olive oil sector believe that among the most important policy actions to foster a sustainable agriculture are initiatives to...

...arise awareness on farmers on the advantages of heterogeneous agroecosystems through specific target courses.

Under the climate change future scenarios, heterogeneity in agroecosystems will be beneficial to farmers as a low risk betting strategy. However, the policies for the adaptation to climate change need to include and favor the heterogeneous agroecosystems approaches and initiatives.

...promote and protect cultural heritage of local ecological knowledge related to olive groves.

Knowledge on sustainable management of olive groves acquired by local communities over generations contributes to preserve and boost the provision of ecosystem services which, in turn, may assure the resilience of the socioecological system to disturbances.

