NPP-SOL KICK-OFF

From 6 to 8 November 2023

The Project: Non-Point Pollution Solutions

The project, NPP-SOL, funded by PRIMA aims at preventing surface and ground-water bodies from agricultural non-point source pollution under Mediterranean conditions using modelling and technological tools.



The Partners

Eight partners from five Mediterranean countries are participating in the project:

- University of Basilicata (UNIBAS) - Italy (Coordinator)
- University of Cagliari (UNICA) - Italy
- University of Barcelona (UB) - Spain
- Mediterranean Agronomic Institute of Montpellier (CIHEAM-IAM) - France
- Agricultural Research Organization – Volcani Institute (ARO) - Israel
- Ministry of Agriculture and Rural Development (MOAG) - Israel
- National Institute of Agricultural Research (INRA) - Morocco
- Mohammed V University of Rabat (UM5) - Morocco

Case Studies



ISRAEL
Nahalal Stream near Newe Ya'ar experimental farm

Agricultural practices in the area involve over fertilization and poor management of liquid effluents from CAFO. **High NPS pollution sources threaten the sustainability of agriculture since it impacts on the quality of Nahalal River.**



ITALY
Arborea study area in Sardinia Region

Designated as NVZ IN 2006, a specific action programme for the reduction of NO3 has been developed. **Despite a significant reduction in nitrate concentrations during the first years of application, these concentrations are still high, above the threshold values established by national and European legislation.**



SPAIN
Lerma basin study area in the Arba River catchment

Irrigated agricultural land since the 2000s. A progressive increase in the use of fertilisers (NPK) **lead to a three-fold increase of N input to the Arba river, recognized as affected by NO_3 pollution.**



MOROCCO
Mnasra Region in the Gharb irrigated study area in NE Morocco

The misuse of irrigation water and agrochemical inputs have brought to a widespread pollution of ground- and surface-water by NO_3 and salinity.

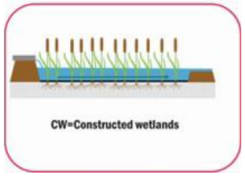
Key Points

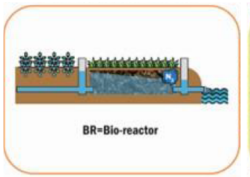
Pollution-Prevention Technologies

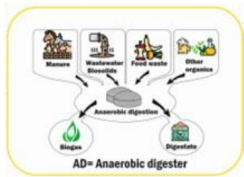
- CW = Constructed Wetlands
- BR = Bio-Reactor
- AD = Anaerobic Reactor

Pollutant Source

- Nitrate and Phosphorous (liquid effluent from CAFO)
- Nitrate and Phosphorous (manure from livestock)
- Nitrates from nitrogen fertilization (compound NPK fertilisers and liquid fertilisers as urea/ammonium nitrate)







The Pollution-Prevention Technologies



The Venue

The kick-off meeting will be take place at "Cittadella Universitaria" of the University of Cagliari - Monserrato, Cagliari, Italy.



06/11/2023

Welcome and Introduction

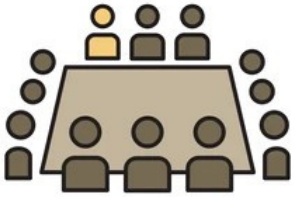
The first day will be dedicated to welcoming the partners, introducing the project and its case studies and work packages, a city tour in Cagliari's main attractions and the social dinner.



07/11/2023

Stakeholders

On the second day, the Italian stakeholders will introduce the situation in Arborea from different points of view. It will also include a field visit to Arborea Basin.



08/11/2023

General Assembly

On the third day, the general assembly will be held. The steering committee, the scientific advisory board and the project management board will be defined and the communication manager will be presented.

Looking forward to seeing you in Cagliari!

www.npp_sol.com