



Non-Point Pollution SOLutions (NPP-SOL) Kick-Off Meeting Agenda Cagliari, 6th to 8th November 2023

Project definition

The project titled Non-Point Pollution SOLutions, 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.

Project main objectives

The general objective of NPS-SOL is to prevent diffuse pollution of water resources due to NPS agricultural pollutants under the Mediterranean soil and environmental conditions, according to the objectives of the new Green Deal and Farm-to-Fork strategies. NPP-SOL will integrate site-specific best management practices for improving soil, water, fertilizers and crop management with site-tailored and affordable-costs technologies for preventing natural bodies pollution. Common to all the adopted methodologies-technologies will be their sustainability and economic efficiency, and their adherence to circular economy approaches.

Partnership

Eight partners from five Mediterranean countries are participating in NPP-SOL:

Partner Organisation	Country	Logo
University of Basilicata (UNIBAS) (Coordinator)	Italy	UNIVERSITA' DEGLI STUDI DELLA BASILICATA
University of Cagliari (UNICA)	Italy	Università degli Studi Cagliari
University of Barcelona (UB)	Spain	UNIVERSITAT DE BARCELONA





Mediterranean Agronomic Institute of Montpellier (CIHEAM-IAM)

France



Agricultural Research Organization – Volcani Institute (ARO)

Israel



Ministry of Agriculture and Rural Development (MOAG) Israel

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National Institute of Agricultural Research (INRA)

Morocco



المعهد الوطني للبحث الزراعي ۱ CBO ا X ol≽©ه ا CBO ا Xol≯©ه Institut National de la Recherche Agronomique

Mohammed V University of Rabat (UM5)

Morocco







Case studies:

The project includes four case studies. The proposed Pollution-Prevented Technologies, PPT, include: Constructed Wetlands (CW), Anaerobic Digesters (AD) and Bio-reactors (BR), as shown in the figure.



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.



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 NO₃ 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 NO₃ 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)





Kick-off meeting venue and accommodation

The capital of the Island of Sardinia, Cagliari is a city with a unique, rich culture and warm Mediterranean weather.



Cagliari City

The best way to reach Cagliari is by plane to Cagliari Elmas airport. Then, to reach the city centre from the airport, you can take a 7-minute train ride from "Elmas Aeroporto" station at the airport (one ride), or a taxi. From the city centre, the bus is the most reliable method to arrive at the venue. Bus tickets can be easily obtained from tobacco shops or through the mobile app "BusFinder". In any case, there will be a private bus service provided to you by the University of Cagliari.





The kick-off meeting will take place between 6 and 8 November 2023 at the "Cittadella Universitaria di Monserrato" of the University of Cagliari in Cagliari, Italy, address: Str. interna Policlinico Universitario, 09042 Monserrato CA.



The venue: Cittadella Universitaria di Monserrato

Here is a list of the recommended accommodations to stay in Cagliari and how to get from each of them to the venue in Monserrato:

Accommodation	Address	Email Address	Direction to the
Accommodation Address i		Email Address	Venue (Bus No.)
Hotel Italia	6476+WQ Cagliari	www.hotelitaliacagliari.com	8
Hotel Due	6486+3J Cagliari	www.hotel2colonne.it	8
Colonne	0400+33 Cagnari	www.noteizcolonne.it	
Affittacamere			8
B&B Sardinia	6486+8J Cagliari	www.sardiniadomus.it	
Domus			
L'Ambasciata	Via Sicilia, 12,	www.hotelambasciatacagliari.com	8
Hotel de Charme	09124 Cagliari	www.notelambasciatacagnan.com	
Hostel Marina	6487+GM Cagliari	www.hostelmarinacagliari.it	8
La Terrazza Hotel	6497+CG Cagliari	www.laterrazzahotel.com	8
Hotel Residence	64MJ+79 Cagliari	www.uliviepalme.it	29
Ulivi e Palme	O-IVIJ 175 Cagilali	www.unvicpanne.it	23
Cerdena Rooms	645G+5G Cagliari	_	5 (until Cadello stop)
	0430130 Cagnari		then 8





Kick-off programme

Day 1: 6 November 2023

Chairperson(s)	Prof. Antonio Coppola & Prof. Stefania Da Pelo			
Time	Subject	Speaker(s)	Organisation	Venue
8:30 - 9:30	Registration			
9:30 - 9:40	Opening Speech by the Rector's Representant	Rector's Representative		
9:40 - 9:50	Opening Speech by the Head of the Department	Prof. Antonio Funedda	University of Cagliari (UNICA)	
9:50 - 10:20	Overview of the Project by the Project Coordinator	Prof. Antonio Coppola	University of Basilicata (UNIBAS)	
10:20 - 11:00	Coffee Break			
11:00 - 11:20	Work Package 1: Co-Creation, Scaling Up, Scaling Out	Dr. Hatem Belhouchette	Mediterranean Agronomic Institute of Montpellier (CIHEAM - IAM)	
11:20 - 11:45	Israel Case Study & Work Package 2: Technology Development	Dr. Roy Posmanik	Agricultural Research Organization – Volcanic Institute (ARO)	Congress Hall (Sala Rossa) -
11:45 - 12:10	Spain Case Study & Work Package 3: Experimental Tests and Data Collection in the Case Studies	Prof. Albert Soler Gil	University of Barcelona (UB)	Cittadella Universitaria di Monserrato, Cagliari
12:10 - 12:25	Morocco Case Study	Dr. Abdelmjid Zouahri	National Institute of Agricultural Research (INRA)	
12:25 - 12:45	Work Package 4: Modeling for technologies optimization, Modeling for Best Practices development, Bioeconomic Modeling	Shawkat B.M. Hassan Hanaa El Yadari	University of Basilicata (UNIBAS) Mediterranean Agronomic Institute of Montpellier (CIHEAM - IAM)	
12:45 - 13:00	Italy Case Study	Prof. Stefania Da Pelo	University of Cagliari (UNICA)	
13:00 - 14:30		Lunch Break		
16:30 - 19:30		City Tour		Cagliari City
20:00	Social Dinner			To be determined





Day 2: 7 November 2023

Chairperson(s)	Prof. Antonio Coppola & Prof. Stefania Da Pelo			
Time	Subject	Speaker(s)	Organisation	Venue
8:30 - 9:00		Registration		
9:00 - 9:10	Opening Speech by the Project Coordination	Prof. Antonio Coppola University of Basilicata (UNIBAS)		
10:00 - 10:30	Management of Water Resources in Sardinia: Availability and Quality Issues	Dr. Paolo Botti - Dr. Mario Lorrai	Hydrographic District Authority of Sardinia (ADIS)	
10:30 - 11:00	Water Quality Monitoring Network in Arborea	Dr. Maurizio Testa	Sardinia's Regional Agency for Environmental Protection (ARPAS)	Cittadella Universitaria
11:00 - 11:30	Coffee break			of Monserrato - DSCG
11:30 - 12:00	The Bioreactor Planning in Arborea Area	Dr. Gianluca Zuddas Oristano Land Reclamation and Irrigation Consortium		Classroom 3
12:00 - 12:30	Regeneration of Resources in the Agro-livestock Supply Chain with a View to the Circular Economy	Dr. Sebastiano Curreli	Arborea's Farmers Association (3A)	Classiculii 3
12:30 - 13:00	Discussion on Stakeholders and Researchers Hub Creation	NPP-SOL Management Team	NPP-SOL Coordination	
13:00 - 14:00	Lunch break			
14:00 - 17:00	Field visit			Arborea - Oristano





Day 3: 8 November 2023

Chairperson(s)	Prof. Antonio Coppola & Prof. Stefania Da Pelo			
Time	Subject	Speaker(s) Organisation		Venue
8:30 - 9:00		Registration		
	Project timeline & deadlines			
9:00 - 9:30	Project Boards establishement	Prof. Antonio Coppola	University of Basilicata (UNIBAS)	
	Grant agreements			
	Project timeline & deadlines			
9:30 - 11:00	Project Boards establishement		Cittadella Universitaria of	
	Grant agreements		Monserrato - Cagliari - DSCG	
11:00 - 11:20		Coffee Break	Meeting Room	
11:20 - 11:40	Communication & Dissemination Plan	Dr. Chiara Ciannamea	Mediterranean Agronomic Institute of Bari (CIHEAM Bari)	
11:40 - 12:00	Tips on the Reporting and Communication with PRIMA	Dr. Marco Orlando	PRIMA Foundation	
12:00 - 12:30	Open Discussion			
12:30 - 14:00		Lunch Break		