

JOINT MEETING PRIMA projects



Innovative farm strategies that integrate sustainable N fertilization, water management and pest control to reduce water and soil pollution and salinization in the Mediterranean



NPP-SOL
Non-Point Pollution Solutions
Modelling and Technological Tools to Prevent Surface and Ground-Water Bodies from Agricultural Non-Point Source Pollution Under Mediterranean Conditions



New low cost strategies of crop based on biodiversity and remote sensing to reduce the application of nitrogen fertilizers in the Mediterranean area

Perugia, Italy, 10-11 June 2025

Department of Agricultural, Food and Environmental Sciences in Perugia, **AULA SEMPIO**
(<https://maps.app.goo.gl/sUsyv39D9YwvUMYn6>)

ONLINE MEETING LINK: <https://teams.microsoft.com/l/>

Convenor: *Prof. Michela Farneselli, Safe-H2O-Farm project coordinator*
(michela.farneselli@unipg.it)

PROGRAM

Tuesday 10 June 2025:

WELCOME

8:30 - Welcome to The Department of Agricultural, Food and Environmental Sciences (DSA3), University of Perugia. Gaetano Martino (head of dept), Michela Farneselli, UNIPG team

- Welcome from the project Officer MARCO ORLANDO

8:45 WORKSHOP: Strategies to prevent and reduce water pollution and salinization due to agri-food activities.

8:45 - 9:30 Project Presentations (overview, objectives, approach, impacts):

8:45 - NPP-SOL: Modelling and Technological Tools to Prevent Surface and Ground-Water Bodies from Agricultural Non-Point Source Pollution Under Mediterranean Conditions (*Antonio Coppola, UniCA, IT*)

9:00 - Telenitro: New low-cost strategies of crop based on biodiversity and remote sensing to reduce the application of nitrogen fertilizers in the Mediterranean area (*Anna Tedeschi, CNR, IT*)

9:15 - Safe-H2O-Farm: Innovative farm strategies that integrate sustainable N fertilization, water management and pest control to reduce water and soil pollution and salinization in the Mediterranean (*Michela Farneselli, UNIPG, IT*)

SESSION 1: STRATEGIES TO PREVENT AND REDUCE NITRATE LEACHING

Chair: Francesco Tei, *Safe-H2O-Farm, UNIPG*.

9:30 - Keynote "Agro-hydrological modelling for preventing diffuse pollution from agriculture" *Antonio Coppola NPP-SOL, UNICA, IT*

9:50 - Keynote "The importance of precise nitrogen nutrition for olives" *Arnon Dag, Safe-H2O-Farm, ARO, Israel*

10:10 Improving regional simulations of processing tomato using remote sensing, *Ehsan Eyshi Rezaei, Safe-H2O-Farm, ZALF, GERMANY*

10:25-10:45 Coffee break

10:45 Improvement of N fertilization management in greenhouse tomato using the VegSyst-DSS and plant monitoring, *Francisco Padilla, Safe-H2O-Farm, UAL*

11:00 Optimizing Nitrogen Management for Pepper Cultivation in Morocco, *Souad El Hajjaji, Telenitro, MOROCCO*

11:15 Optimizing Nitrogen Management for Melon Cultivation in Arid Southern Tunisia, *Imen Ayadi Telenitro, TUNISIA*

11:30 Comparing Nitrogen Fertilization Strategies in Melon Cultivation: Planned Application vs. Farmer Practices in Arid Ecosystems of Tunisia, *Fatma Wassar, TUNISIA*.

11:45 Use of biostimulants for reducing N doses in olive, *Mona Mazeh and Damiano Marchionni, Safe-H2O-Farm, UNIPG*.

12:00 Use of biostimulants for reducing N doses in processing tomato, *Muhammad Zubair Akram and Flavia Carbone, Safe-H2O-Farm, UNIPG*.

12:15-13:30 Light lunch

SESSION 2: STRATEGIES TO OPTIMIZE NITROGEN USE AND PREVENT AND REDUCE SALINIZATION

Chair: Niovi Christodoulou, *Safe-H2O-Farm, CYPRUS*

13:30 Keynote: *"Physiological and molecular responses of olive to salinity", Luca Sebastiani, Scuola Superiore Sant'Anna, Pisa, Italy*

13:50 Long-term effects of irrigation of olives with recycled municipal wastewater, *Alon Ben-Gal, Safe-H2O-Farm, ARO, Israel*

14:05 Irrigation management with treated sewage water: *Safe-H2O-Farm, Adriana Bruggeman, CYPRUS*

14:20 Physiological responses of tomato due to salinity and different nitrogen inputs, *Gulcin Ece Bacalan Aslan, Safe-H2O-Farm TR_AU, Türkiye*

SESSION 3: STRATEGIES TO PREVENT AND REDUCE OTHER POLLUTANTS

Chair: Chiaraluce Moretti, *Safe-H2O-Farm- UNIPG*

14:35 Efficacy of low-copper-content products against olive leaf spot disease and their impact on olive oil quality". *Maja Jukić Špika Safe-H2O-Farm-CROATIA.*

15:50 Future prospects for controlling bacterial plant diseases by reducing the use of copper-based compounds. *Anna Scian, Safe-H2O-Farm- UNIPG*

15:00 Sustainable control of emerging pests: *Bactrocera oleae* and *Halyomorpha halys*. *Eric Conti, Safe-H2O-Farm- UNIPG*

15:10- 15:30 Coffee break

Wednesday 11 June 2025:

8:00-19:00 SAFE-H2O-FARM TOMATO AND OLIVE RESEARCH FIELD TRIP

8:00 Departure from Parking of the Department of Agricultural, Food and Environmental Sciences (DSA3), University of Perugia, Perugia, Italy

9:00 Visit open-field tomato research field at Papiano

11:00 Departure for Assisi

12:00 Lunch at "Le mandrie di San Paolo" -Assisi



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14:00 Roundtable: *Opportunities for collaboration between PRIMA projects*

15:00 Departure for Spello

15:30 Olive research field trail visits at Spello

17:30 Departure for Perugia

19:00 Reached at Department of Agricultural, Food and Environmental Sciences (DSA3),
University of Perugia, Perugia, Italy

Organizing Committee

Michela Farneselli

Franco Famiani

Euro Pannacci

Muhammad Zubair Akram

Flavia Carbone

Beatrice Falcinelli