

# Technical Assistance and Information Exchange (TAIEX) : Study Visit on water resources: legislation, quality, investments and best practices

*Organised in co-operation with*

*Council for Agricultural Research and Economics  
(CREA), in collaboration with Ministry of Agriculture,  
Food Sovereignty and Forestry (Masaf), Canale  
Emiliano Romagnolo (CER) and Consorzio di  
Bonifica della Burana*

**21st-23rd November 2023**  
**Venue: Ministry of Agriculture**  
**Sala Clementi 3d floor,**  
**Via XX Settembre, 20**  
**Rome**

**Guests:**  
*Türkiye Delegation*

TAIEX Case ID ETT IND/STUD 84242



# TAIEX

MOVING FORWARD TOGETHER WITH EU EXPERTISE

## **Aim of the Study Visit:**

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The main aim of the Study visit is the exchange of information and experience on themes connected with the use of water and its quality, the European and national legislation, organization and strategy, tools for management and monitoring; of water quality and cases studies (experiences, research projects).

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## **Participants / Speakers:**

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See agenda below

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## Day 1: Tuesday, 21 November 2023

### Venue

**Ministry of Agriculture, Food Sovereignty and Forestry (MASAF) – Sala Clemente**  
**Via XX Settembre, 20 – Rome (IT)**

	Chair: Raffaella Pergamo, Council for Agricultural Research and Economics, Research Centre for Agricultural Policies and Bioeconomy
09:15	Welcome Coffee at Sala Clemente
10:00 – 10:30	<p><b>Welcome and introduction:</b></p> <ul style="list-style-type: none"> <li>• Mr. Giuseppe Blasi/Mrs Simona Angelini/Mrs Francesca Coniglio/Department of European and International policies and rural development</li> <li>• Mr. Gianluca Giorgi, Contact point Department of European and International policies and rural development</li> <li>• Mrs Alessandra Pesce / Head of Council for Agricultural Research and Economics, Research Centre for Agricultural Policies and Bioeconomy</li> </ul>
10:30 – 11:40	<p>Legislation, organization, and strategy on water in agriculture, administrative structure in Italy and in the EU framework</p> <p><b>European legislation (DQA 2000/60)</b>  <b>Speaker:</b> Myriam Ruberto, Council for Agricultural Research and Economics, Research Centre for Agricultural Policies and Bioeconomy</p> <p><b>Italian legislation (D.lgs 152/06) and governance</b>  <b>Speaker:</b> Silvia Chiappini, Council for Agricultural Research and Economics, Research Centre for Agricultural Policies and Bioeconomy</p> <p><b>Agenda 2030 SDGs on sustainable management of water (SDGs 6, 9, 14)</b>  <b>Speaker:</b> Silvia Baralla, Council for Agricultural Research and Economics, Research Centre for Agricultural Policies and Bioeconomy</p> <p><b>The Italian CAP strategic plan and the challenges of ecological transition</b>  <b>Speaker:</b> Alessandro Monteleone, Council for Agricultural Research and Economics, Research Centre for Agricultural Policies and Bioeconomy</p> <p><b>CAP Strategic Plan and water/irrigation resources</b>  <b>Speaker:</b> Raffaella Pergamo, Council for Agricultural Research and Economics, Research Centre for Agricultural Policies and Bioeconomy</p> <p><b>SIGRIAN and DANIA to support programming and monitoring of water policies</b>  <b>Speaker:</b> Veronica Manganiello, Council for Agricultural Research and Economics, Research Centre for Agricultural Policies and Bioeconomy</p> <p><b>Irrigation investments policies: approaches and results</b>  <b>Speaker:</b> Marianna Ferrigno, Council for Agricultural Research and Economics, Research Centre for Agricultural Policies and Bioeconomy</p> <p>Q&amp;A</p>

11:40 – 12:10	<p><b>Water quality assessment in Latium Region: results and information system.</b>  <b>Speaker:</b> Regional Environmental Protection Agency (Lazio region), Antonella Guzzon, Roberto Ceccarini.</p> <p><b>EO applications and tools evolving for environmental and climate protection objectives of water and soil resources</b>  <b>Speaker:</b>Antonella Tornato, Italian Institute for Environmental Protection and Research  Q&amp;A</p>
12:10 – 13:00	Guided visit to “Biblioteca Storica Nazionale dell'Agricoltura”
13:00 – 14:30	<i>Lunch break</i>
14:30 – 16:40	<p><b>Experience/cases studies</b>  The Italian experiences in improving water quality: main problems, achievements, and lessons learned.</p> <ul style="list-style-type: none"> <li>– <b>River Contracts in Italy. An Experience for River Management</b>  <b>Speaker:</b> Arch. Massimo Bastiani, National coordinator of the National group of River Contracts</li> <li>- <b>PON IN.TE.R.R.A. project - Irrigation of sorghum biomass with urban wastewater: effects on biomass and energy value</b>  <b>Speaker:</b> Pasquale Campi, Council for Agricultural Research and Economics, Research Centre for Agriculture and Environment</li> <li>– <b>PON WATER4AGRI FOOD project and Grey water: water quality for high quality food production</b>  <b>Speakers:</b> Domenico Ventrella, Council for Agricultural Research and Economics, Research Centre for Agriculture and Environment; Salvatore Barbagallo, University of Catania</li> <li>– <b>Open-source technologies and AI based innovative approaches for precision irrigation: Sustainability and case studies</b>  <b>Speakers:</b> Corrado Costa, Federico Pallottino Council for Agricultural Research and Economics, Research Centre for Engineering and Agro-Food Processing</li> <li>– <b>“Eccellenze rurali”: mapping best practices on sustainable use of water.</b>  <b>Speaker:</b> Silvia Baralla, Council for Agricultural Research and Economics, Research Centre for Agricultural Policies and Bioeconomy</li> <li>– <b>REWAT project: sustainable WATER management in the lower Cornia valley through demand REDuction, aquifer Recharge and river Restoration</b>  <b>Speaker:</b> Alessandro Fabbri, Consorzio di Bonifica Toscana costa</li> <li>– <b>Forest Infiltration Areas: investments for the protection of water resources and the environment for the benefit of the community</b>  <b>Speaker:</b> Umberto Niceforo, Director Consorzio di Bonifica “Brenta”</li> <li>– Q&amp;A</li> </ul>
16:40 – 17:00	AOB and wrap up of day 1
	Train from Roma Termini to Bologna Central Station at 18:35 (arrival at 21:18) Overnight stay at Zanhotel in Bologna



## Day 2: Wednesday, 22 November 2023

### Venue:

**Acqua Campus (Budrio, Bologna)**

Chair: Raffaella Zucaro

### On-the-field visit

Location: <https://maps.app.goo.gl/fCrPL6d9po4dP9QU6>

**10:00**

### Trip to Acqua Campus - CER

The Irrigation Consortium for the Emilia Romagna Canal (CER) is at the same time the main local agricultural water stakeholder (northern Italy) and an institute undertaking research on water management and governance, offering extension services support to farmers and other water stakeholders. Research activities are carried out in Acqua Campus, an experimental farm encompassing multiple infrastructures for research, including a full-scale surface flow constructed wetland (0.3ha) with data from over 20 years. Acqua Campus has a long experience in water resources monitoring, development of irrigation water balance, water governance and water quality/reuse.

**10:30 – 13:00**

### Irrigation water quality and water reuse

Introductory meeting and field visit to study full-scale Nature-Based solutions for water reuse, data presentation and active systems to monitor irrigation water quality and its evolution:

- Welcome and introduction: Acqua Campus and CER
- Systems for the monitoring of water quality and simulation models
- Nature-Based solutions for water reuse
- Pilot plants of wetland mesocosms to maximize phytoremediation potentials

**Speakers:** Raffaella Zucaro, Francesco Cavazza (Canale Emiliano Romagnolo)

**13:00 – 14:00**

*Lunch break*

**14:00 – 16:30**

### Telemetry for water management in agriculture

Fieldwork to observe earth observation data collection, challenges, key points, equipment requirements, and interpretation of the real work to modelling part both to face water scarcity and floodings:

- IRRIFRAME : a real case of DSS to allow in-farm water saving
- Telemetry-based Variable Rate Irrigation: informatic protocols for the generation of water-prescription maps
- Aero-photogrammetry and telemetry to manage extremes: the case of floods in Emilia-Romagna in may 2023

**Speakers:** Raffaella Zucaro, Francesco Cavazza (Canale Emiliano Romagnolo)

**16:30 – 17:00**

AOB and wrap up of day 2

Overnight stay at Zanhotel in Bologna

## Day 3: Thursday, 23 November 2023

<b>Venue:</b>  <b>Burana Reclamation and Irrigation Board</b>	
	Chair: Fabio Paglione <b>On-the-field visit</b> Location: <a href="https://maps.app.goo.gl/u5BK1eYDenmir9A86">https://maps.app.goo.gl/u5BK1eYDenmir9A86</a>
<b>08:15 – 09:45</b>	<b>Arrival at Consorzio della Bonifica Burana</b>
<b>10:00 – 13:30</b>	<b>Goccia Verde certification and water quality</b> The "Goccia Verde" standard is a voluntary certification program promoted by the National Association of Reclamation and Irrigation Boards (ANBI - Associazione Nazionale dei Consorzi per la Gestione e Tutela del territorio e delle acque irrigue) in line with the Green Deal policy. It aims at promoting sustainable water use and water quality at the territorial level, involving all stakeholders in the irrigation value-chain. The visit will include the presentation of the standard and a focus on one pilot districts where the certification is already implemented. Visit to Concordia Sud; Az. Agr. Mazzoni and Impianto Staggia  <b>Speaker:</b> Francesco Vincenzi (President of ANBI) and representatives of Burana Reclamation and Irrigation Board
<b>13:30</b>	<i>Lunch break</i>
<b>15:00</b>	Transport from Consorzio to Bologna Airport
	Flight from Bologna to Istanbul at 19:15

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An abstract graphic consisting of numerous curved lines in various colors (blue, green, yellow, orange, red, purple) that sweep across the page, creating a sense of movement and energy. The lines are of varying thicknesses and curves, some sweeping from the top left towards the center, and others from the bottom left towards the center.

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**Annual Activity Report**

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