

# D.2.5.2 – Conference to address state of the art of the new innovative solutions



## Document Control Sheet

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## 1. INTRODUCTION

WATERCARE project accepted the IT-HR JS Communication Manager proposal to join the Next Generation Adriatic Cooperation Programme and to actively contribute to the realization of two activities named “Advanced management systems for clean water” and “Innovative water cities: advanced solutions to address current and future water challenges”. The first one is conversation focused on methods/practices for sustainable marine eco-system; while the second one is conferences in which spreading innovative solutions to be adopted and their state of the art.

Since the participation wasn’t funded and WATERCARE had to pay for participation we found another solution. Instead of the NextGen initiative WATERCARE created two of their own events (one with other projects and other with Italian and Croatian students, on the same topics).

25 October 2021 – Online Conference (zoom platform)

On 25 October we held a online conference with marine biology students from universities of Italy and Croatia to inform students about the WATERCARE project and make them aware about the microbial pollution issue along the bathing waters. A total of 150 students were connected to attend the Conference.

The Conference was chaired by Elisa Baldrighi (IRBIM-CNR) and speakers from Italian (Prof. Antonella Penna; Dr. Pierluigi Penna and Dr. Elisa Baldrighi) and Croatian (Asst. Prof. Marin Ordulj and Dr. Martin Bučan) partners gave in-depth presentations of faecal contamination along the Italian and Croatian coasts,

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WATERCARE sampling activities and novelties concerning the Water Quality Integrated System as part of the early warning system for bathing water management and partners addressed state of the art of the new innovative solutions.

UNIVERSITY OF URBINO Ms. Penna gave a detailed presentation about microbial contamination: invisible threat for bathing and coastal waters. CNR IRBIM representative Ms. Baldrighi presented WATERCARE project: thinking to an innovative methodological approach to improve the bathing water management

Afterwards, UNIVERSITY OF SPLIT Mr. Ordulj showed the effect of precipitation on the bathing water quality at the area under the anthropogenic impact through the results of the year long sampling in Split coastal area and at the end, Mr. Bućan for Split Dalmatia County explained the final works of creation of Smart system to support governance decision processes in Water Management of Adriatic basin.

The idea around this event that involved students from Italian and Croatian university is to let know not only about the Interreg project WATERCARE but also to introduce and make them aware of a widespread ecological problem: that of microbial pollution of bathing waters. Briefly, they explained the pollution in a way that it stops everyday life and lowers its quality, for example - the microbial pollution is the reason for which we cannot go to the beach and take a swim after big storm or rainy event.

Representatives encouraged the students to ask questions and take a moment to realize that we all can make a change in water management that is good for the environment and for the people.

The conference was attended by students from the Universities of Urbino, Marche (Ancona), Bologna, Split and Istria (Pula).

The whole conference was shared on WATERCARE YouTube channel - <https://www.youtube.com/watch?v=6xJXiMV2f2s&t=1s>

Students had a opportunity to learn about world water problems such as;

Water shortages and poor quality, together with inadequate sanitation systems, have a negative impact on food security, livelihood choices and education opportunities for poor families around the world.

More than 80% of wastewater produced by human activities is discharged in rivers or seas without purification systems.

40% of the world oceans are heavily influenced by human activities, the impact which includes pollution, the depletion of fish stocks and the loss of natural habitats along the coasts.

They were encouraged that with the careful management of this fundamental global resource we can create a base for sustainable future for everyone.

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Students were interested in finding out the solutions WATERCARE offers for some of the mentioned problems, and the solutions our project representatives offered are by using innovative tools in waste management and treatment.

Also, developing an innovative Water Quality Integrated System (WQIs) composed by a real : time hydro-meteorological monitoring network, realizing an ad-hoc infrastructure for bathing waters management in a pilot site through a forecast operational model, realizing feasibility studies in other 4 target sites to improve planning and management of environmental problems of the marine system, developing a real-time alert system able to preventively identify the potential ecological risk from focal contamination of bathing waters and to support governance decision and processes in bathing water management.

Zoom Webinar

Antonella Penna

### MICROBIAL POLLUTION FROM WASTEWATER AND BATHING

**Causes:**

- Abnormal episodes of rainfall and activation of spillways and bypasses of purifiers
- Inadequate facilities and collection system



- Urban Wastewater Framework Directive (UWTD) 1991/271/UE
- Water Framework Directive (WFD) 2000/60/UE
- Bathing Water Framework Directive (BWD) 2006/7/UE
- (D.Lgs 116/08 e DM 30/03/2010)

- Contributions of urban wastewater (wastewater from urban settlements).
- Microbiological parameters (*Escherichia coli* and intestinal enterococci) of fecal contamination.
- Indicators of the risk of contracting diseases associated with bathing.
- Sanitary risk.



Stai visualizzando lo schermo di Elisa Baldighi

Visualizza opzioni

### 1 Project



Duration: 1.1.2019 - 31.12.2021

### 10 Different Partners

**WATERCARE PROJECT PARTNERS**



- ✓ LEAD PARTNER CNR IRBIM (Ancona)
- ✓ PP1 ASET SpA (Fano)
- ✓ PP2 MARCHE REGION (Ancona)
- ✓ PP3 ABRUZZO REGION (Pescara)
- ✓ PP4 UNIVERSITY OF URBINO (Urbino)
- ✓ PP5 COUNTY OF SPLIT-DALMATIA (Split)
- ✓ PP6 DUBROVNIK AND NERETVA REGION (Dubrovnik)
- ✓ PP7 UNIVERSITY OF SPLIT (Split)
- ✓ PP8 METRIS RESEARCH CENTRE (Pula)
- ✓ PP9 CROATIAN WATERS (Zagreb)

**3 common Goals to solve a crucial ecological problem**




Zoom Webinar    Stai visualizzando lo schermo di Martin Bučan    Visualizza opzioni

Registrazione in corso

**| WP5 |**  
**Smart system to support governance decision processes in Water Management of Adriatic basin**

WATERCARE | Split-Dalmatia County | Martin Bučan

Online Conference with students of marine biology from Italy and Croatia | Zoom |  
25th October 2021.

Impostazioni audio    Chat    Alza la mano    Domande e risposte    Esci

Scrivi qui per eseguire la ricerca    14°C    ITA    12:16    25/10/2021

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