

D.2.4.7 – Participation to IT-HR/EU public events

























Document Control Sheet

Project number:	10044130	
Project acronym	acronym WATERCARE	
Project Title	Water management solutions for reducing microbial environment impact in coastal areas	
Start of the project	01/01/2019	
Duration	36 months	

Related activity:	ated activity: 2.4. Public events	
Deliverable name:	liverable name: Participation to IT-HR/EU public events	
Type of deliverable	Report	
Language	English	
Work Package Title	Package Title Communications activities	
Work Package number	2	
Work Package Leader	Leader Dubrovnik Neretva Region	

Status	Final	
Author (s)	hor (s) Ivana Kristović DNR , Antonella Penna UNIURB	
Version	1	
Due date of deliverable	December 2021	
Delivery date	December 2021	



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Introduction

D 2.4.7 – Participation to IT-HR/EU public events. Participation on IT-HR/European Institution public events, mainly in joint events organized in cooperation with other IT-HR projects funded under S.O.3.3 in order to promote the respective achieved results. (T.V.: 4; DATE: 31.06.2021).

Eusair Conference

Dubrovnik Neretva Region as a WP2 leader (along with MS. Antonella Penna and Mr. Luigi Bolognini) participated 6th annual EUSAIR Forum where WATERCARE was presented. There were 219 registered people that attented this Side event of the Forum.

Organisation of several public events throughout the project lifetime is be essential for the involvement of key local actors within the PPs area. They will be also opened and important for reaching stakeholders across Europe and from IT-HR Programme Area. All relevant target groups will be identified (citizens, technical experts, journalists, institutional stakeholders) and each group will be addressed through dedicated communication events such as meetings, ad-hoc seminars, conferences, focus groups, press releases.

At least 1 high level event involving relevant policy makers, presence of ESI funds' MA, ETC Program's MA and Macro-regional strategies' GB and members of EUSAIR TSG for Pillar 3 (checking project results' compliance with EUSAIR priorities) will be organized and regarding this WATERCARE project was a participant and presenter within 6th annual EUSAIR Forum.



The Forum was organized by Slovenian Presidency and WATERCARE project was a presenter at All-Fora Side-Event "Saline intrusion: a potential risk for coastal aquifer management in a changing climate" which was held on Monday, May 10 from 10:00 to 12:00.

The Event was a part of the three AII-Fora online Side-Events within the VI EUSAIR Forum, organized by the Fora of the Adriatic and Ionian Chambers of Commerce, Cities and Universities in collaboration with Adriatic and Ionian Initiative - Chairmanship of the Republic of Slovenia. The webinars analyzed and discussed three main topics: Climate Change, Blue Economy and Circular Economy.

Adriatic and Ionian coastal regions need improved protection of freshwater aquifers to saline intrusion through a sustainable management of water resources. There are common challenges to tackle: expected climate change impacts on sea level rise and precipitation rates; water supply essential for sustainability of coastal societies and ecosystems; increased consumption for human activities, including agriculture, increasing the risk of seawater intrusion towards freshwater aquifers. The Event, organized in cooperation with the Municipality of Fano and University of Urbino, opened a discussion among different stakeholders engaged in this specific field, and ASTERIS and WATERCARE projects were shown as good practices.











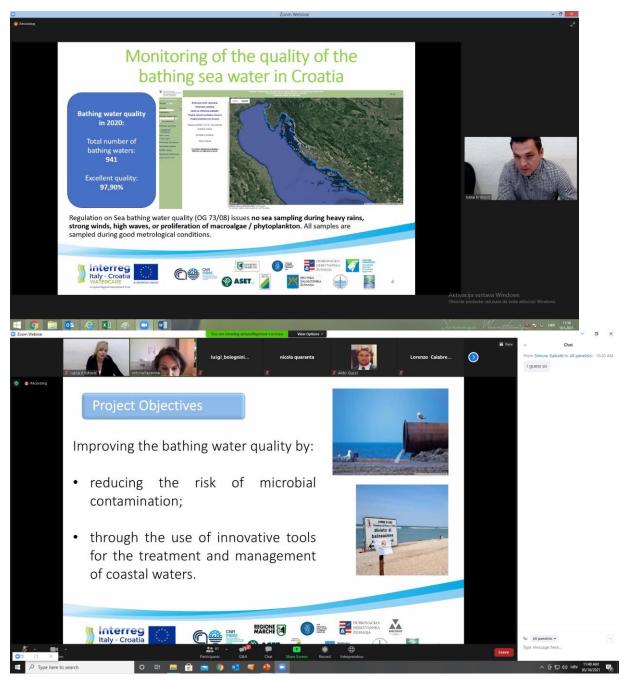










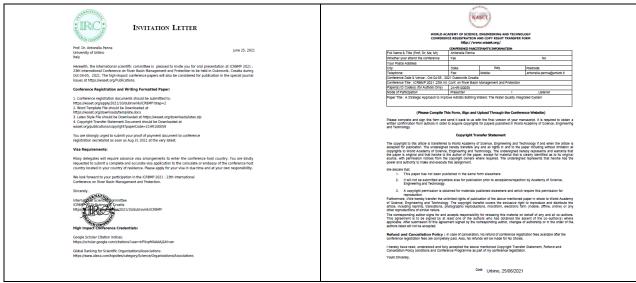




Conference on River Basin Management and Protection – October 2021

UNIURB (Prof. A. Penna) requested to attend the ICRBMP 2021, i.e. the **23rd International Conference on River Basin Management and Protection** to be held in Dubrovnik, Croatia, in October 04-05, 2021.

The positive answer, exploited by an official invitation, was sent to Prof. Penna on the 25th of June 2021. The payment and sending of the necessary documents to attend the conference were made within the 31st of August.



UNIURB was invited to present the paper "A strategic approach to improve Adriatic bathing waters: the Water Quality Integrated System", written by A. Penna, E. Baldrighi, M. Betti, J. Bilić, L. Bolognini, M. Bućan, A. Campanelli, S. Capellacci, S. Casabianca, C. Ferrarin, F. Grilli, L.



lagnemma, I. Kristovic, M. Krzelj, E. Manini, N. Marinchel, M. Marini, F. Moro, M. Ordulj, P. Penna, F. Ricci, M. Šikoronja, V. Spada.

According to the paper's abstract: In the Adriatic Sea, massive rainfall events are causing flooding of rivers and streams, with severe consequences on the environment. The consequent bacterial contamination of bathing water poses public health risks besides damaging tourism and economy. This study was conducted in the framework of WATERCARE, an EU Interreg Italy-Croatia Project, which aims at reducing the impact of microbial contamination on Adriatic bathing water due to heavy rainfall events drained in the local sewage network and; enhancing the quality of local waters; and providing support for the decision-making processes regarding the management of bathing water in line with EU regulations. The study involved the development of an innovative water quality integrated system that helps meeting these objectives. It consists of four components: a real-time hydro-meteorological monitoring system; an auto-sampler to collect freshwater samples during and after significant rainfall events; a forecast system to simulate the dispersion of pollutants in seawater; and a real-time alert system that can predict the potential ecological risk from the microbial contamination of seawater.

A finite element hydrodynamic model was applied to the studied areas, which differ in hydrological, urban and morphological characteristics. Modules for transport-diffusion and microbial decay were used in order to study the distribution of Escherichia coli during significant raining events. The model results were validated against data acquired on field (water level, temperature, salinity and microbial concentrations) demonstrating the ability of the modeling suite to simulate the circulation in the coastal areas of the Adriatic Sea. Furthermore, the model simulates the main dynamics of transport and diffusion, such as fluvial and polluted waters dispersion.

The modeling suite and all results obtained will serve to develop guidelines for urban wastewater and coastal system quality assessments to contribute developing policy actions and final governance decisions as required by the EU Bathing Water Directive.

The paper has been reviewed by the WORLD ACADEMY OF SCIENCE, ENGINEERING AND TECHNOLOGY but it has not been selected among the best 15 choices to be published in one of the annual issues.



The conference was run online on the basis of 2 consecutive days. The first day (4/10), Prof. A. Penna was invited to present the WATERCARE groups research during the session "ENGINEERING AND PHYSICAL SCIENCES RESEARCH", chaired by Marita Pigłowska.

DAY 2: PERTINENT READING

Digital program consists of an e-book of relevant studies to download for future reading on October 5, 2021.

Digital Program consists of the e-proceedings book which is available online-only and includes the conference communications (proceedings abstracts and papers). Registered participants can access the digitally available conference proceedings (and certificates) by visiting their profile pages.

ENGINEERING AND PHYSICAL SCIENCES RESEARCH

Chair: Marita Pigłowska

The Impact of PM-Based Regulations on the Concentration and Sources of Fine Organic Carbon in the Los Angeles Basin from 2005 to 2015	Abdulmalik Altuwayjiri, Milad Pirhadi, Sina Taghvaee, Constantinos Sioutas University of Southern California, United States
A Strategic Approach to Improve Adriatic Bathing Waters: The Water Quality Integrated System	A. Penna, E. Baldrighi, M. Betti, J. Bilic, L. Bolognini, M. Bucan, A. Campanelli, S. Capellacci, S. Casabianca, C. Ferrarin, F. Grilli, L. Iagnemma I. Kristovic, M. Krzelj, E. Manini, N. Marinchel, M. Marini, F. Moro, M. Ordulj, P. Penna, F. Ricci, M. Sikoronja, V. Spada
	University of Urbino, Italy

A detailed overview of the programme and the participants is provided by the following link: https://waset.org/river-basin-management-and-protection-conference-in-october-2021-in-dubrovnik

Both the slides with the whole programme and some slides of the live presentation are reported here.





