# D.2.2.2 – Publication in selected journals and conferences

# Document Control Sheet

| | |
|---|---|
| **Project number:** | 10044130 |
| **Project 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:** | Activity number 2.2. Media relation and publications |
| **Deliverable name:** | Publication in selected journals and conferences |
| **Type of deliverable** | Report |
| **Language** | Croatian, English, Italian |
| **Work Package Title** | Communication activities |
| **Work Package number** | 2 |
| **Work Package Leader** | DNR |

| | |
|---|---|
| **Status** | Final |
| **Author (s)** | Ivana Kristović – DNR PP6 |
| **Version** | 1 |
| **Due date of deliverable** | December 2021. |
| **Delivery date** | December 2021. |

# INDEX



# ANNEXES

- Each PPs special publication

# 1. INTRODUCTION

This activity is mainly dedicated in project promotion through local, national and European media campaigns and in the identification of journals and conferences useful for publication and presentation in the topics addressed in WATERCARE, with the aim at ensuring a wide dissemination in scientific audiences and beyond. More specifically, it includes at least one printed publication on relevant EU paper magazines, publication of at least one short portrait of the project adapted to different target groups. 100 copies of project leaflets will be printed by each PP in English and in original PP language in order to inform about project activities and planned results and to foster active involvement of the interested parties within the partnership area. Each PP hosting an event will have to produce 1 project roll-up.
A newsletter will be created and distributed 4 times during the project life. All the promotional material will follow WP2 leader directives.

D 2.2.1 – WATERCARE Campaign on media. Initiatives will be promoted by PPs through media, mainly TV, press agencies and specialised web portals. (T.V.: 10; DATE: 30.06.2021).
D 2.2.2 – Publication in selected journals and conferences. Dissemination of project outputs and results at international level through participation and publication in well-respected journals and conferences (at national, ITHR and EU level). (T.V.: 10; DATE: 30.06.2021).
D 2.2.3 – Project leaflets. Each PP will be in charge of printing 100 copies of WATERCARE leaflets in English and in original PP language. Translation in Italian (LP), and Croatian (WP2 leader) will be provided. (T.V.: 2000; DATE: 31.01.2019 and 31.05.2021).
D 2.2.4 – Project roll-up. Each PP hosting a WATERCARE event will purchase a roll-up that will be design by WP2 leader at the beginning of the project. (T.V.: 6; DATE: 31.01.2019).

D 2.2.5 – WATERCARE Newsletter. A newsletter will be distributed 4 times. Newsletter will be sent out electronically to key stakeholders and will contain WATERCARE achievements. The main language will be English, but translation in Italian (LP) and Croatian (WP2 leader) will be provided to reach target groups at all levels. (T.V.: 12; DATE: 30.06.2021).

D 2.2.6 – Project gadgets. Gadgets will be distributed from WATERCARE PPs to target groups for publicity purposes.

# 2. ANNEXES

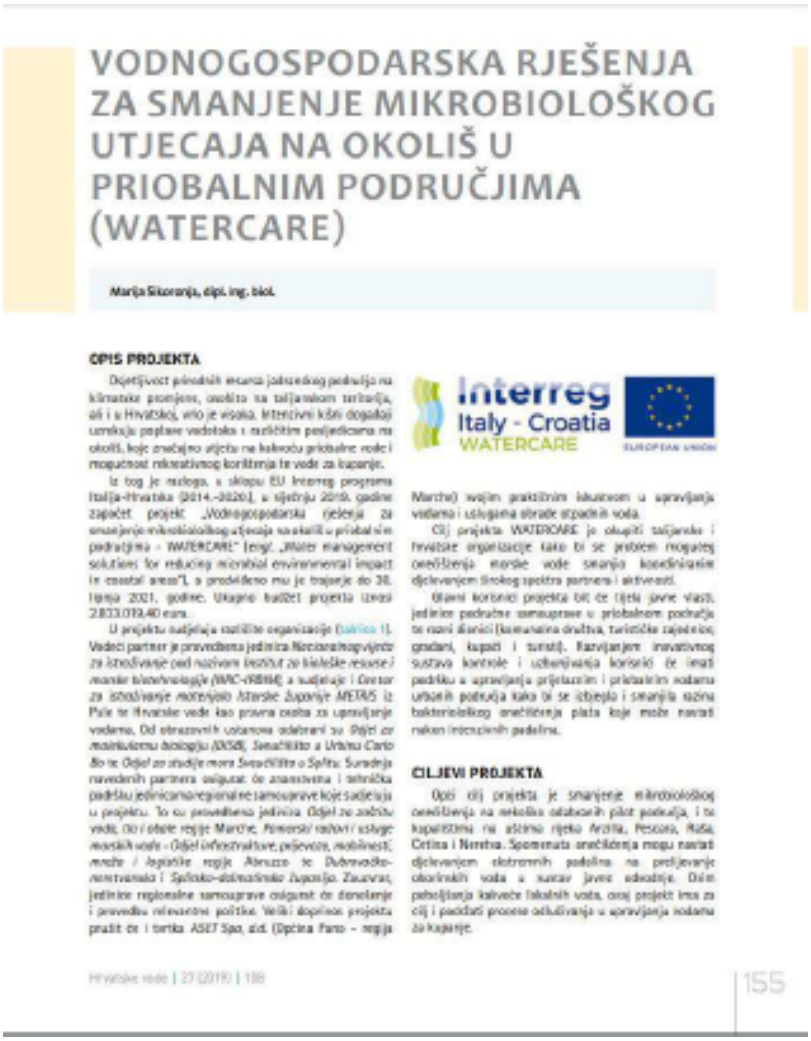
## CROATIAN WATERS

Hrvatske vode:

Link: https://www.voda.hr/hr/HV-2019-108

Hrcak

Link: https://hrcak.srce.hr/index.php?show=toc&id_broj=17840



VODNOGOSPODARSKA RJEŠENJA ZA SMANJENJE MIKROBIOLOŠKOG UTJECAJA NA OKOLIŠ U PRIOBALNIM PODRUČJIMA (WATERCARE)

Marija Sikoronja, dipl. ing. biol.

**OPIS PROJEKTA**

Dijelatnost priobalnih područja jadranskog područja na klimatske promjene, osobito na talijanskom teritoriju, ali i u Hrvatskoj, što je vidljivo. Intenzivni kišni događaji uzrokuju preplave vodotoka i različitim posljedicama na okoliš, koje značajno utječu na kakvoću priobalne vode i mogućnost rekreativnog korištenja te vode za kupanje.

U tom je kontekstu, u sklopu EU Interreg programa Italija-Hrvatska (2014.–2020.), u siječnju 2019. godine započeo projekt „Vodnogospodarska rješenja za smanjenje mikrobiološkog utjecaja na okoliš u priobalnim područjima – WATERCARE" (engl. „Water management solutions for reducing microbial environmental impact in coastal areas"), a predviđeno mu je trajanje do 30. lipnja 2021. godine. Ukupno budžet projekta iznosi 2.833.019,40 eura.

U projektu sudjeluju različite organizacije (tablica 1). Vodeći partner je pravobitna jedinica Nacionalnog vijeća za istraživanje pod nazivom *Institut za biološke resurse i morske biotehnologije (IRBIM)*, a sudjeluje i *Centar za istraživanje mora Istarske županije METRIS* iz Pule te Hrvatske vode kao pravna osoba za upravljanje vodama. Od obrazovnih ustanova odabrani su *Odjel za matematiku Sveučilišta u Splitu*, *Sveučilište u Urbinu Carlo Bo* te *Odjel za studije mora Sveučilišta u Splitu*. Sunadnja navedenih partnera osigurat će znanstvena i tehnička podrška jedinicama regionalne samouprave koje sudjeluju u projektu. To su pravobitna jedinica *Odjel za zaštitu voda, čiji je sjedište regije Marche, Pomorski radovi i usluge morskih voda - Odjel infrastrukture, prijevoza, mobilnosti, morske i lučke regije Abruzzo* te *Dubrovačko-neretvanske i Splitsko-dalmatinske županije*. Zauzvrat, jedinice regionalne samouprave osigurat će donošenje i provedbu relevantne politike. Veliki doprinos projekta pružit će i tvrtka *ASET Spa*, sjd. (Općina Pesaro – regija Marche) svojim praktičnim iskustvom u upravljanju vodama i uslugama obrade otpadnih voda.

Cilj projekta WATERCARE je okupiti talijanske i hrvatske organizacije kako bi se protiv mogućeg onečišćenja morske vode smanjio koordiniranje djelovanjem širokog spektra partnera i aktivnosti.

Glavni korisnici projekta bit će tijela javne vlasti, jedinice područne samouprave u priobalnom području te razni dionici (komunalna društva, turističke zajednice, građani, kupači i turisti). Razvijanjem inovativnog sustava kontrole i uzbunjivanja korisnici će imati pravodobnu i upravljanja prijetećim i pristalnim sadanu urbanih područja kako bi se izbjeglo i smanjila razina bakteriološkog onečišćenja plaža koje može nastati nakon intenzivnih padalina.

**CILJEVI PROJEKTA**

Opći cilj projekta je smanjenje mikrobiološkog onečišćenja na nekoliko odabranih pilot područja, i to kupališta na ušću rijeka *Arzilla*, Pesceria, Rječina, Cetina i Neretva. Spomenuta onečišćenja mogu nastati djelovanjem ekstremnih padalina na prijenos okolišnih voda u sustav javne odvodnje. Osim pobolšanja kakvoće lokalnih voda, cilj projekt ima za cilj i pokušati procese oduživanja u upravljanja sadanu za kupanje.

Hrvatske vode | 27 (2019) | 108

155

# ISTRIA UNIVERSITY

KKEMIJA U INDUSTRIJI

Link: http://silverstripe.fkit.hr/kui/assets/Uploads/Osvrti-580-582.pdf

OSVRTI, Kem. Ind. 69 (9-10) (2020) 558–563



EU fondovi u Hrvatskoj
O projektu WATERCARE (INTERREG HR-IT)

## EU projekt: Water Management Solutions for Reducing Microbial Environment Impact on Coastal Areas – WATERCARE

V. Špada*
Ustanova Centar za istraživanje materijala Istarske županije METRIS
Zagrebačka 30, 52 100 Pula

Naziv programa:
Interreg V-A Italija – Hrvatska 2014. – 2020.; Mjera 3.3.
Predlagatelj projekta: CNR- ISMAR (IT)
Trajanje projekta: 1. 1. 2019. – 30. 6. 2021.
Ukupni proračun projekta: 2.839,019,60 EUR

Kakvoća mora za kupanje je vrlo važan interes javnog zdravstva, posebice u turističkim obalnim područjima koja su pod snažnim utjecajem ljudskih aktivnosti kao što su urbanizacija, industrijski razvoj, poljoprivreda, ribarstvo, ispuštanje komunalnih otpadnih voda i razne rekreacijske aktivnosti. Najznačajniji indikatori onečišćenja mora fekalnim otpadnim vodama su mikrobiološki pokazatelji, a prisustvo fekalnih bakterija upućuje na potencijalni rizik od zaraznih bolesti. Mikrobiološko zagađenje na određenoj točki ispitivanja može znatno varirati u vremenu, što ovisi o načinu ispuštanja otpadnih voda te o meteorološkim i hidrografskim uvjetima.

Kriteriji za ocjenjivanje kakvoće mora na plažama, kao i metode ispitivanja propisani su Uredbom o kakvoći mora za kupanje (NN 73/08), koja je usklađena s Direktivom Europskog parlamenta i vijeća 2006/7/EZ iz veljače 2006. godine o upravljanju kakvoćom voda za kupanje, Smjernicama za kakvoću mora za kupanje u Sredozemlju Mediterranskog akcijskog plana Ujedinjenih naroda za okoliš (UNEP/MAP) i kriterijima Svjetske zdravstvene organizacije (WHO) za kakvoću mora za kupanje. U skladu s preporukama Direktive o kakvoći voda za kupanje (2006/7/EC) države članice EU-a trebale bi stalno poboljšavati ustave monitoringa i upravljanja morem za kupanje radi bolje zaštite javnog zdravlja od fekalnog onečišćenja" navodi Marija Sikovorija iz Hrvatskih voda, koje su partner na projektu.

Ranjivost jadranskog područja prema klimatskim promjenama, osobito talijanskog teritorija i prirodnih resursa, čini se da je najviša u Europi, prema najnovijim scenarijima Ujedinjenih naroda (IPCC, 2014). U posljednjim desetljećima provedeno je nekoliko klimatoloških studija kako bi se opisala moguća promjena klimatskih ekstrema koji imaju najjači utjecaj na okoliš te posljedično i način života. Na temelju analize podataka u posljednjih 120 godina, utvrđeno je da intenzitet padalina predstavlja značajan pozitivan trend utjecaja, osobito na području sjevernog Jadrana. Kišne anomalije uzrokovale su značajne poplave rijeka, osobito s talijanske strane, s relevantnim posljedicama na okoliš. Jedna od glavnih posljedica je pogoršanje kvalitete obalnih

# UNIVERSITY OF SPLIT

SEAOLOGY CONFERENCE

## ECOMAP - Ecosustainable management of marine and tourist ports

## WATERCARE - Water management solutions for reducing microbial environment impact in coastal areas

University of Split
Maja Krželj

The quality of the bathing waters in the EU, and their classification, is determined within the monitoring required by Bathing Water Directive. In Italy and Croatia the quality of the bathing waters is presented mostly with a class of excellent quality, although in some areas lower quality can be detected. The anomalous rainy episodes, as effect of climate change, induce flood and relevant consequences on river and sewage systems, with an impact at medium/long periods on bathing waters, especially in the areas where the sewerage networks can directly discharge into the sea. During these events, the microbial contamination significantly affects the quality of bathing waters with a negative impact on tourism and related activities.

WATERCARE project aims to improve the quality of the bathing and coastal waters, reducing the microbial contamination, by using innovative tools and new approaches and providing practical solutions to this environmental problem. Main beneficiaries of the project are the public authorities, coastal zone managers and stakeholders (tourists, citizens, tourist operators, etc.). They will be supported in order to improve the water management in urban areas, to avoid and reduce the level of bacterial contamination deriving by high rainfalls, but also to reduce the number of days when the activities in costal waters are limited or forbidden due to a high levels of bacterial contamination (including WFD and MSFD requirements). The impact of the WATERCARE project will be important for water management solutions developed in order to reduce a microbial contamination, using alert and control actions based on innovative system and offering a guidelines to support the governance. The cross-border network is an excellent opportunity to exchange experiences in water management and prevention.

# WATERCARE - Water management solutions for reducing microbial environment impact in coastal areas

WATERCARE| **University of Split – University Department of Marine Studies | Maja Krželj**

Sealogy on-line meeting | 20 November 2020


- quality of the bathing waters and their classification determined within the monitoring required by **Bathing Water Directive**
- the anomalous rainy episodes (climate change) induce flood and consequences on river dscharge and sewage systems with an impact at medium/long periods on bathing and costal waters
- the microbial contamination significantly affects the quality of bathing water with a negative impact on tourism and related activities in coastal areas
- WATERCARE aims to improve the quality of bathing and coastal waters reducing the microbial contamination by using innovative methodologies

**SEALOGY® Digital Preview**
**19-20-21-22 Novembre-November 2020**

**ATELIER DI FORMAZIONE – TRAINING ATELIER**

***Gestione dell'acqua nelle aree portuali, nelle marine e gestione delle acque di balneazione***
***Water management in the Port areas, bathing waters and marinas***

**On line, 20 Novembre-November 2020, 16:00 – 18:00**

| | |
|---|---|
| **Luogo-Where** | Platform **SEALOGY® - Il Salone Europeo sulla Blue Economy**<br>The European Exhibition on Blue Economy |
| **Organizzatori-Organizer** | **SEALOGY® in collaborazione con la Partnership del progetto ECOMAP[1] - INTERREG: Programma Italia/Croazia**<br>SEALOGY® in collaboration with the Partnership of the ECOMAP project - INTERREG: Italy / Croatia Program |
| **Crediti-credits** | **SEALOGY® Partner della Commissione Europea nell'ambito della VET WEEK[2] 2020**<br>SEALOGY® Partner of the European Commission in the context of VET WEEK 2020 |
| **Abstract** | **L'evento è dedicato al tema gestione dell'acqua nelle aree portuali, di balneazione e nelle marine.**<br>The event is dedicated to the theme of water management in port areas, bathing areas and marinas. |
| **Lingua-language** | **Italiano-Croato – traduzione in simultanea**<br>Italian Croatian simulataneous interpretation |
| **Chairman:** | **Anna MONTINI – Assessore alla Blue Economy, Comune di Rimini**<br>Councilor for the Blue Economy, Municipality of Rimini |

[1] https://www.italy-croatia.eu/web/ecomap
[2] https://ec.europa.eu/social/vocational-skills-week/european-vocational-skills-week-2017_en

SEALOGY® > DIGITAL PREVIEW

Interreg Italy - Croatia ECOMAP

**Contesto:** Poiché le soluzioni Smart port richiedono un approccio unilaterale e congiunto, il progetto ECOMAP sta organizzando un workshop di 2 giorni sullo scambio di competenze sui settori della Crescita Blu all'interno dell'evento SEALOGY® (19-20 novembre 2020, Ferrara, Italia).

È un trend di innovazione tecnologica che ha il potenziale per ridefinire le dinamiche relazionali, gestionali e commerciali transfrontaliere e accelerare il movimento continuo di prodotti e servizi e potenzialmente creare un ambiente collaborativo globale. L'evento riunirà le parti interessate italiane e croate che operano in diversi settori dell'economia blu, con l'obiettivo di stabilire contatti, condividere soluzioni di *best practices* e creare un cluster di innovazione che sosterrà lo sviluppo di idee e opportunità di business.

Questo scambio di buone pratiche:

- aiuterà a delineare i temi da inserire nel costituendo Memorandum del Cluster delle Città Portuali;
- aiuterà a identificare potenziali stakeholder dell'area ammissibile Interreg Italia-Croazia che verranno intervistati e a cui verrà chiesto di aderire / cooperare con il costituendo Cluster di Città Portuali.

I cluster sono sistemi complessi e devono garantire:

- la coerenza di obiettivi strategici;
- la forza di azioni coordinate.

**Context:** Since the Smart port solutions demand unilateral and joint approach, the project ECOMAP is organizing a 2 days workshops on exchange of expertises regarding Blue Growth sectors within SEALOGY® event (19th-20th November 2020, Ferrara, Italy).

It is a trend of technological innovation that has the potential to redefine the cross-border relationship, management and commercial dynamics and accelerate the continuous movement of products and services and potentially create a global collaborative environment. The event will bring together Italian and Croatian stakeholders working in different sectors of the blue economy, with aim to establish contacts, share best practices solutions and set up the innovation cluster that would support the development of business ideas and opportunities.

This exchange of good practices:

- will help outlining the topics to be inserted in the Memorandum of the Cluster of Port Cities to be developed;
- will help identify potential stakeholders of the Interreg Italy-Croatia's eligible area to be interviewed and asked to join to /cooperate with the Cluster of Port Cities to be developed;

Clusters are complex systems and they have to ensure:

- the coherence of strategic objectives;
- the strength of coordinated actions.




**Venerdì-Friday 20 Novembre-November 2020 – h 16.00 – 18.00**

**15:45 – 16:00** **Welcome e registrazione partecipanti**
Welcome and registration of the participants

**16:00 – 17:10** **Inizio del lavori "Buone prassi nella gestione delle acque di balneazione"**
Opening of the webinar "Good practice in the management of bathing water"

**Introduzione a cura del chairman**- Introduction by the chairman

**16:10 – 17:50**

**Speakers**

***Roberto FABBRI, Manager HERA SPA***
***Manager HERA SPA***
***"Il piano di Salvaguardia della balneazione di Rimini"***
***"The Rimini's Bathing Safeguard Plan"***

**Sessione 2 "Politiche di gestione delle acque"**
Session 2 - "Water Management Policies"

***FABIO VALLAROLA, Comune di Ancona/Municipality of Ancona***
**"Azioni di ECOMAP per la tutela del mare protetto del Conero"**
"ECOMAP actions for the protection of the protected sea of the Conero"

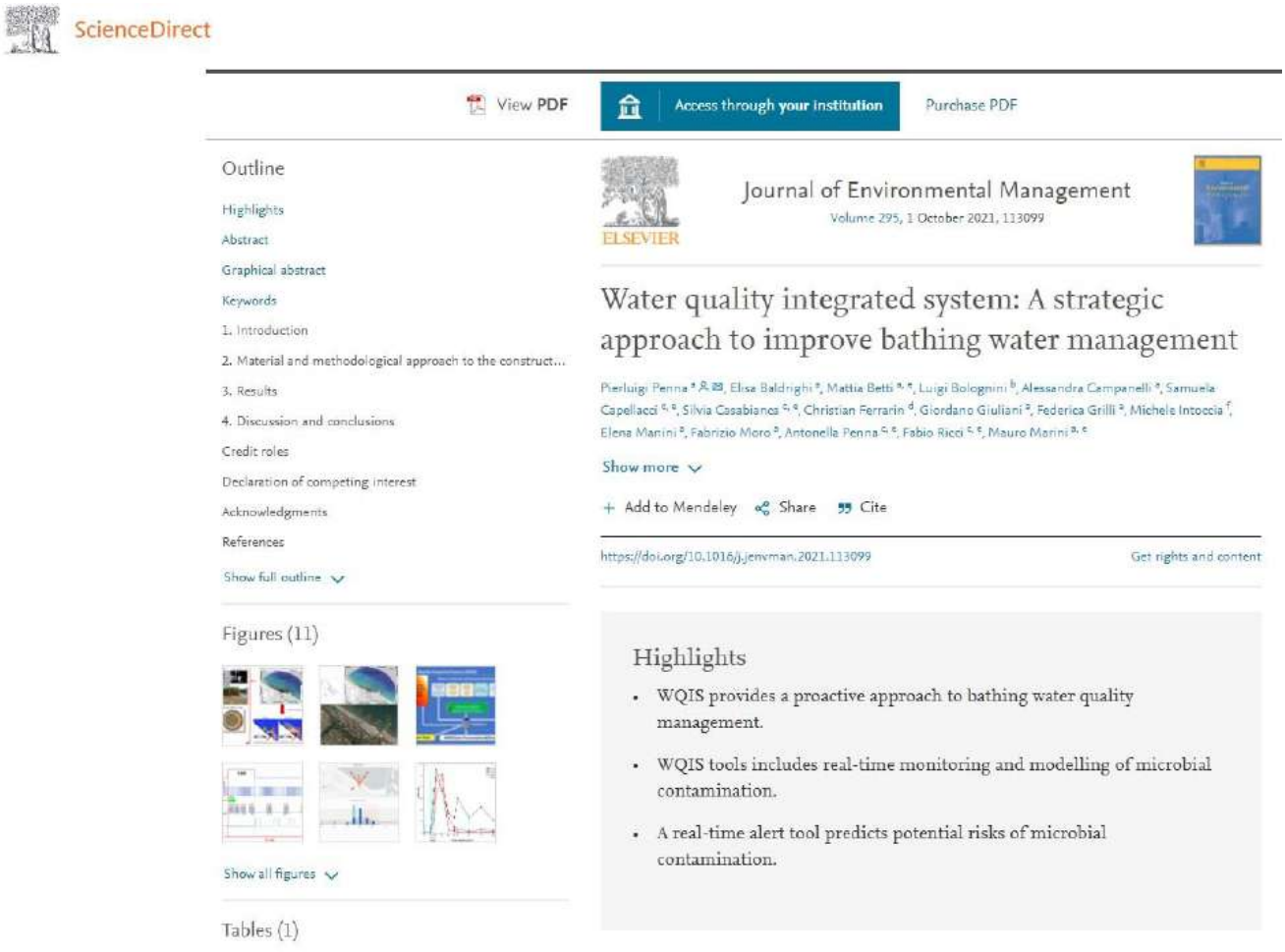
***P. LUONGO, F. OCCHIOBOVE, G. MEROLA, LOREDANA PASCARELLA,***
***ARPAC Campania, Dipartimento Caserta***
***ARPAC Campania, Caserta Department***
**"L'analisi statistica dei dati a supporto della gestione ambientale delle acque di balneazione: il caso della foce dei Regi Lagni nel comune di Castel Volturno (Caserta)"**
"The statistical analysis of data to support the environmental management of bathing water: the case of the mouth of the Regi Lagni in the municipality of Castel Volturno (Caserta)"

***MAJA KRŽELJ, Università di Spalato/University of Split***
**"Soluzioni per la gestione dell'acqua per ridurre l'impatto microbico sull'ambiente nella zona costiera"**
"Water management solutions for reducing microbial environment impact in coastal areas"

# CNR IRBIM

Water Journal - Journal of Environmental Management

Link: https://doi.org/10.1016/j.jenvman.2021.113099



ScienceDirect

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Outline

Highlights
Abstract
Graphical abstract
Keywords
1. Introduction
2. Material and methodological approach to the construct...
3. Results
4. Discussion and conclusions
Credit roles
Declaration of competing interest
Acknowledgments
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Figures (11)

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Tables (1)

Journal of Environmental Management
Volume 295, 1 October 2021, 113099

ELSEVIER

Water quality integrated system: A strategic approach to improve bathing water management

Pierluigi Penna, Elisa Baldrighi, Mattia Betti, Luigi Bolognini, Alessandra Campanelli, Samuela Capellacci, Silvia Casabianca, Christian Ferrarin, Giordano Giuliani, Federica Grilli, Michele Intoccia, Elena Marini, Fabrizio Moro, Antonella Penna, Fabio Ricci, Mauro Marini

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https://doi.org/10.1016/j.jenvman.2021.113099 | Get rights and content

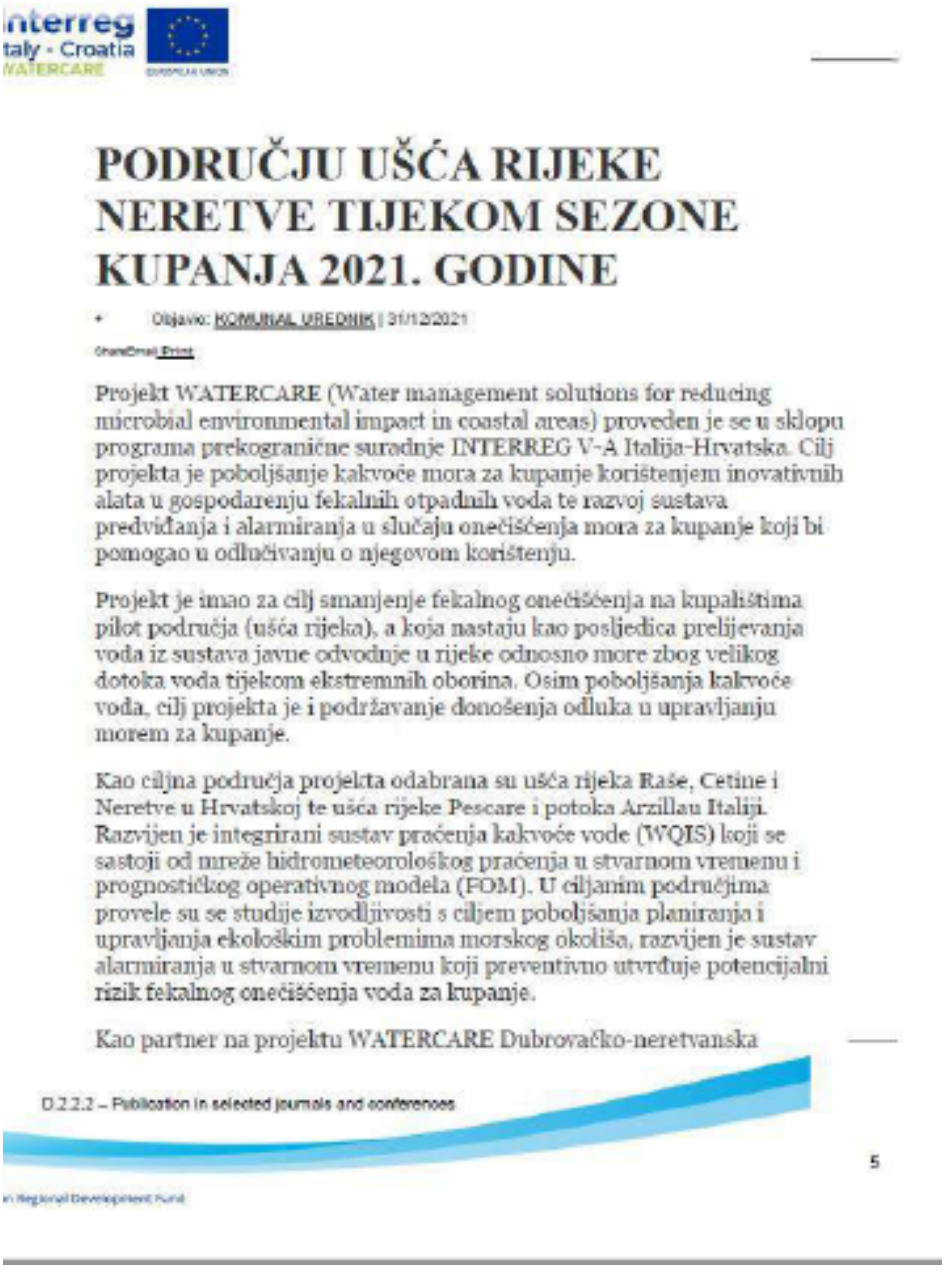
Highlights

- WQIS provides a proactive approach to bathing water quality management.
- WQIS tools includes real-time monitoring and modelling of microbial contamination.
- A real-time alert tool predicts potential risks of microbial contamination.

# DUBROVNIK NERETVA REGION

KOMUNAL Časopis za komunalno gospodarstvo

Link: https://www.komunal.hr/vijesti/12106/



## PODRUČJU UŠĆA RIJEKE NERETVE TIJEKOM SEZONE KUPANJA 2021. GODINE

Objavio: KOMUNAL UREDNIK | 31/12/2021

Share Email Print

Projekt WATERCARE (Water management solutions for reducing microbial environmental impact in coastal areas) proveden je se u sklopu programa prekogranične suradnje INTERREG V-A Italija-Hrvatska. Cilj projekta je poboljšanje kakvoće mora za kupanje korištenjem inovativnih alata u gospodarenju fekalnih otpadnih voda te razvoj sustava predviđanja i alarmiranja u slučaju onečišćenja mora za kupanje koji bi pomogao u odlučivanju o njegovom korištenju.

Projekt je imao za cilj smanjenje fekalnog onečišćenja na kupalištima pilot područja (ušća rijeka), a koja nastaju kao posljedica prelijevanja voda iz sustava javne odvodnje u rijeke odnosno more zbog velikog dotoka voda tijekom ekstremnih oborina. Osim poboljšanja kakvoće voda, cilj projekta je i podržavanje donošenja odluka u upravljanju morem za kupanje.

Kao ciljna područja projekta odabrana su ušća rijeka Raše, Cetine i Neretve u Hrvatskoj te ušća rijeke Pescare i potoka Arzillau Italiji. Razvijen je integrirani sustav praćenja kakvoće vode (WQIS) koji se sastoji od mreže hidrometeorološkog praćenja u stvarnom vremenu i prognostičkog operativnog modela (FOM). U ciljanim područjima provele su se studije izvodljivosti s ciljem poboljšanja planiranja i upravljanja ekološkim problemima morskog okoliša, razvijen je sustav alarmiranja u stvarnom vremenu koji preventivno utvrđuje potencijalni rizik fekalnog onečišćenja voda za kupanje.

Kao partner na projektu WATERCARE Dubrovačko-neretvanska

D.2.2.2 – Publication in selected journals and conferences

5

D.2.2.2. - Publication in selected journals and conferences

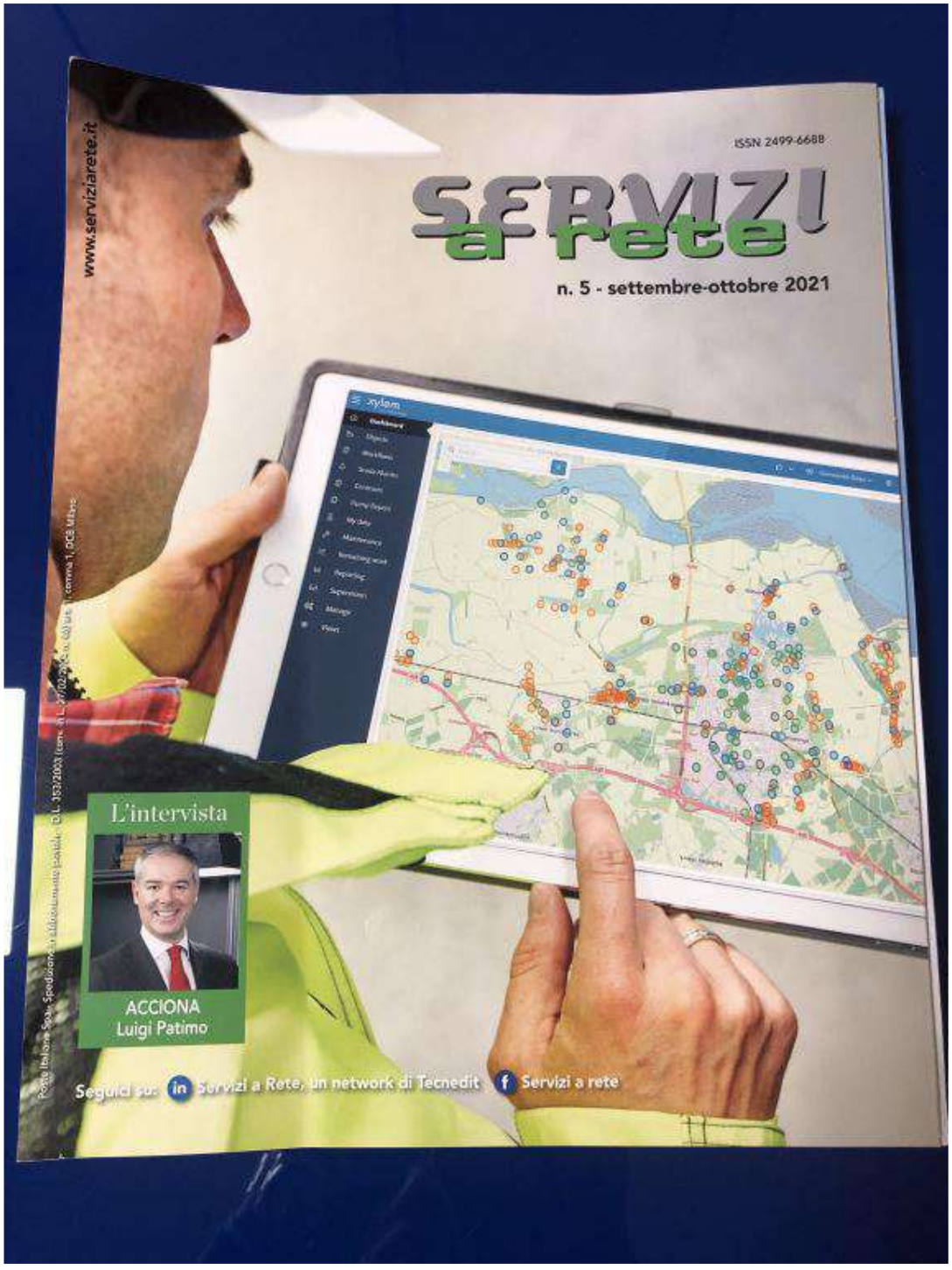

KOMUNAL
PROJEKT WATERCARE – ISPITIVANJE KAKVOĆE VODE NA PODRUČJU UŠĆA RIJEKE NERETVE TIJEKOM SEZONE KUPANJA 2021. GODINE
Od ideje do postrojenja
EDOX

# SPLIT DALMATIA COUNTY

HRVATSKA VODOPRIVREDA

Link: chrome-extension://efaidnbmnnnibpcajpcglclefindmkaj/viewer.html?pdfurl=https%3A%2F%2Fwww.voda.hr%2Fsites%2Fdefault%2Ffiles%2Fcasopis%2Fhr_vodoprivreda-237-kb_e-book.pdf&clen=18174081&chunk=true

## ASET




D.2.2.2. - Publication in selected journals and conferences

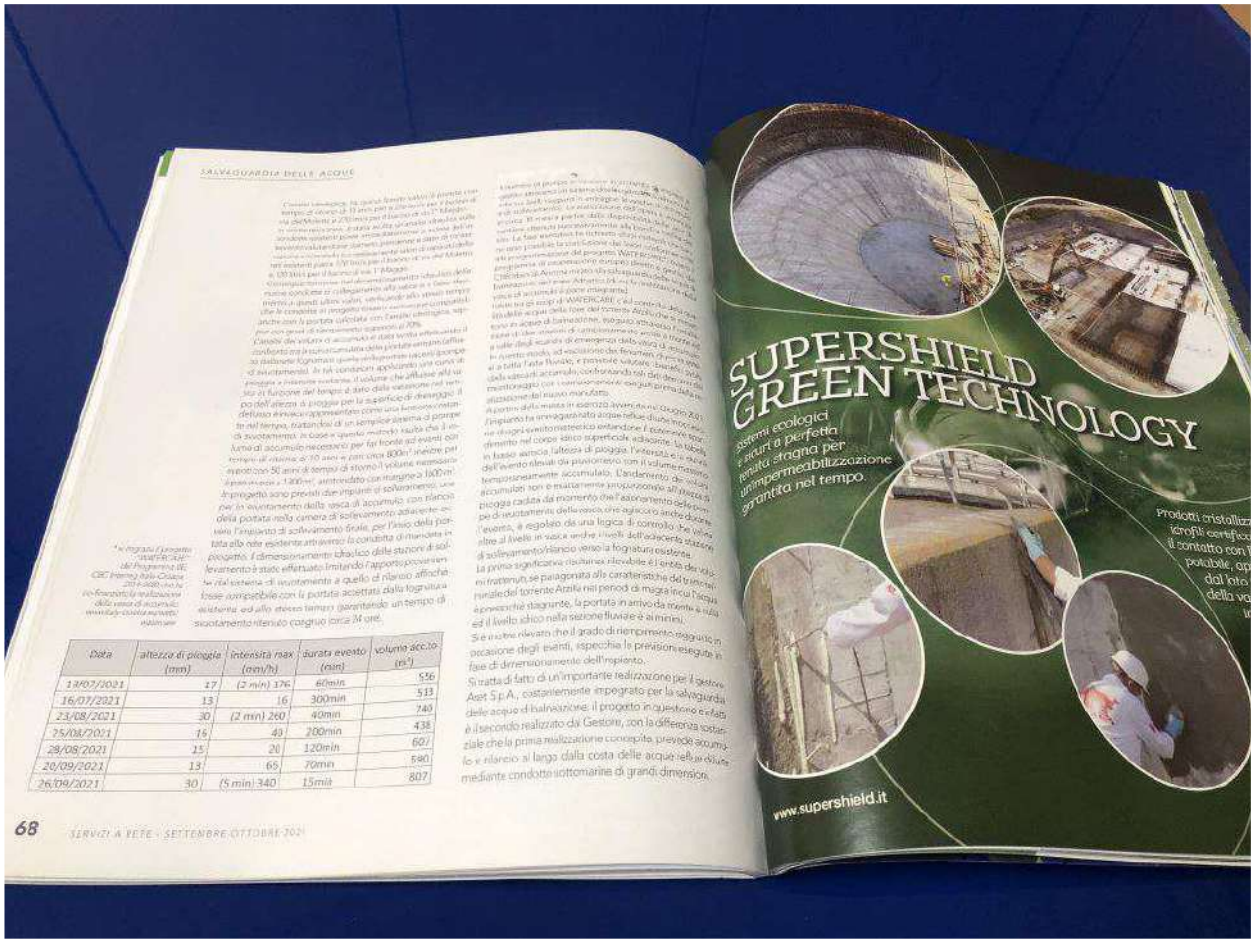
INNOVAZIONE TECNOLOGICA

# La nuova vasca alla foce del torrente Arzilla

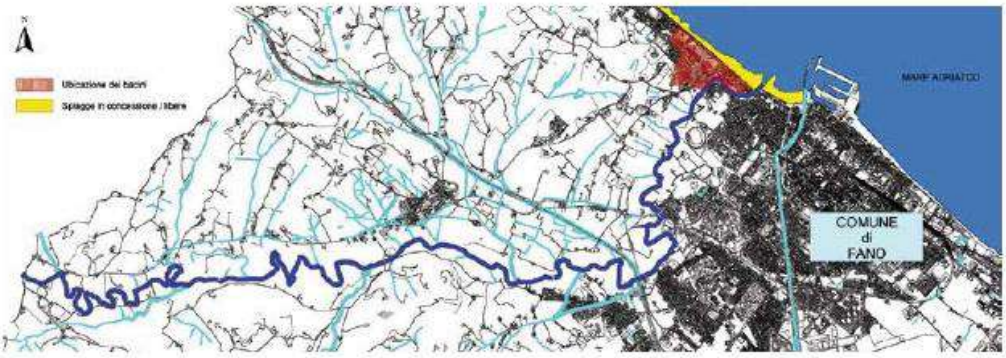
## Un altro passo verso la salvaguardia dell'ambiente per ASET S.p.A.


**Marco Romei**
Direttore Tecnico Aset S.p.A. e R.U.P. del progetto
**Matteo Lucertini**
Dirigente area Rete ed impianti Aset S.p.A.
e Direttore Lavori del progetto
**Enrico Egonato Renzoni**
tecnico servizio fognature Aset S.p.A.
ed assistente al D.L. del progetto


D.2.2.2. - Publication in selected journals and conferences




D.2.2.2. - Publication in selected journals and conferences




# La nuova vasca alla foce del torrente Arzilla

## Un altro passo verso la salvaguardia dell'ambiente per ASET S.p.A.

**Marco Romei**
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**Matteo Lucertini**
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ed assistente al DL del progetto

Il problema della mitigazione o dell'eliminazione degli effetti generati dallo sversamento in acque superficiali delle portate di supero delle reti fognarie in occasione di piogge copiose è una questione molto diffusa negli abitati con reti fognarie di tipo misto.
La presente realizzazione eseguita a cura di ASET S.p.A. – gestore del Servizio Idrico Integrato nei comuni di Fano, Mondolfo e Monte Porzio (PU) – consiste nella realizzazione di una vasca di grande capacità dotata di un sistema di pompaggio atto al rilancio del refluo in una rete fognaria esistente, evitando lo sversamento nell'ambiente delle portate derivate dai manufatti scolmatori della rete.

L'area oggetto di studio è la porzione di area urbana del Comune di Fano collocata presso la foce del torrente "Arzilla", sulla sinistra idraulica del corso d'acqua. Il bacino interessato, avente estensione di poco più di 7 ettari, è fortemente urbanizzato e caratterizzato da un'importante densità abitativa con una sensibile incidenza della popolazione fluttuante.
Più in dettaglio, l'intervento in progetto è localizzato a valle di due distinti bacini afferenti denominati "via del Moletto" e "via 1° Maggio". Ogni bacino è interessato da un proprio sistema fognario indipendente e l'uno dall'altro risultano idraulicamente disconnessi.
Lo stato dei luoghi prima della realizzazione del progetto, consisteva nella presenza di una condotta fognaria di tipo misto recapitante le acque reflue all'interno di un manufatto di scolmo (CSO) a luce di fondo il quale, in caso di eventi piovosi intensi, faceva si che la maggior portata in arrivo se ne andasse direttamente al torrente Arzilla generando fenomeni di inquinamento localizzato in prossimità della foce e successiva dispersione in acque di balneazione.
Il nuovo progetto prevede di realizzare un nuovo manufatto di scolmo (CSO) a derivazione laterale nel bacino di "via del Moletto", capace di convogliare attraverso un nuovo

*Nella foto in alto, mappa geografica del sito e delimitazione del bacino idrografico*

## CNR IRBIM

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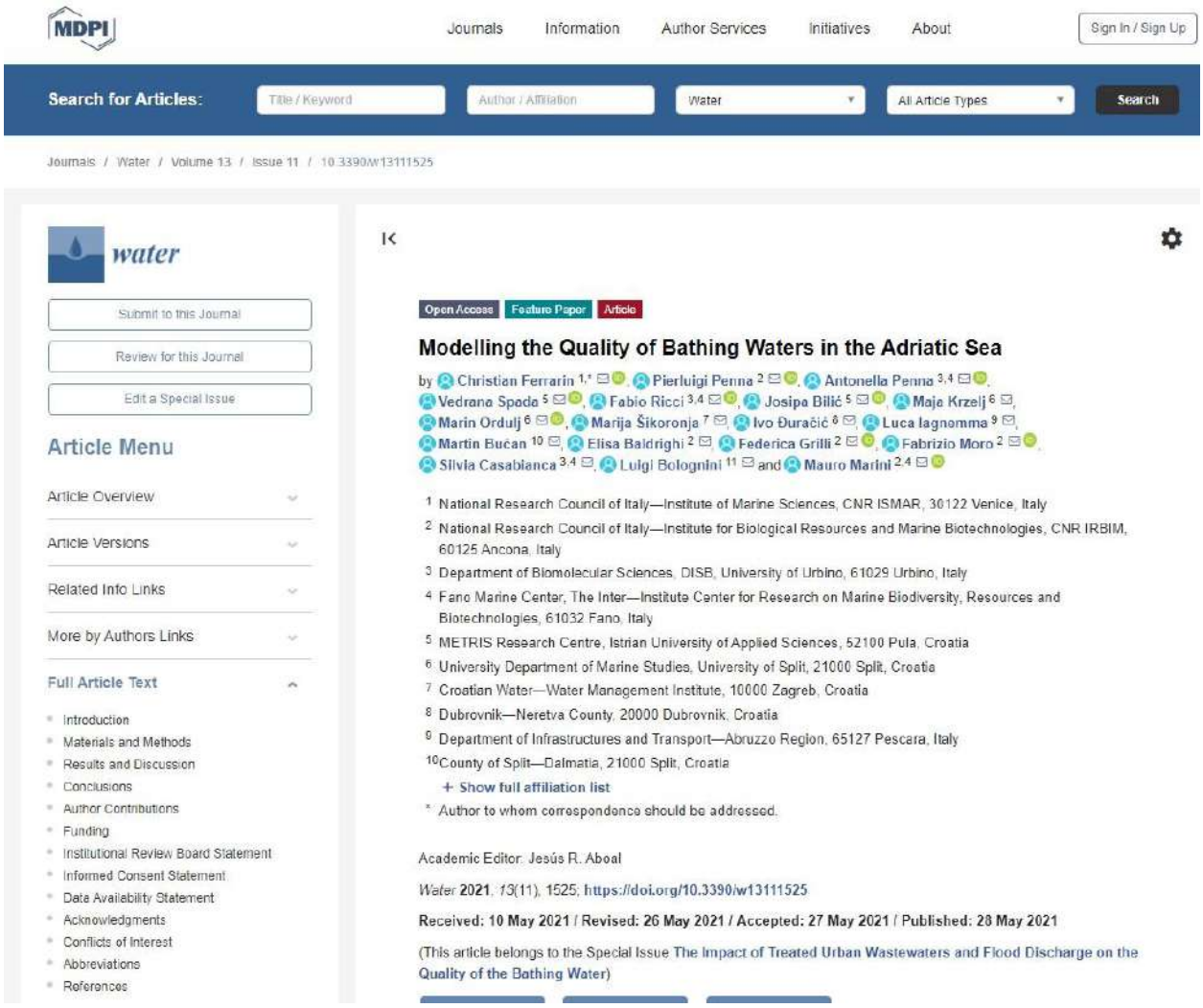

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Open Access Feature Paper Article

**Modelling the Quality of Bathing Waters in the Adriatic Sea**

by Christian Ferrarin [1,*], Pierluigi Penna [2], Antonella Penna [3,4], Vedrana Spada [5], Fabio Ricci [3,4], Josipa Bilić [5], Maja Krzelj [6], Marin Ordulj [6], Marija Šikoronja [7], Ivo Đuračić [8], Luca Iagnemma [9], Martin Bučan [10], Elisa Baldrighi [2], Federica Grilli [2], Fabrizio Moro [2], Silvia Casabianca [3,4], Luigi Bolognini [11] and Mauro Marini [2,4]

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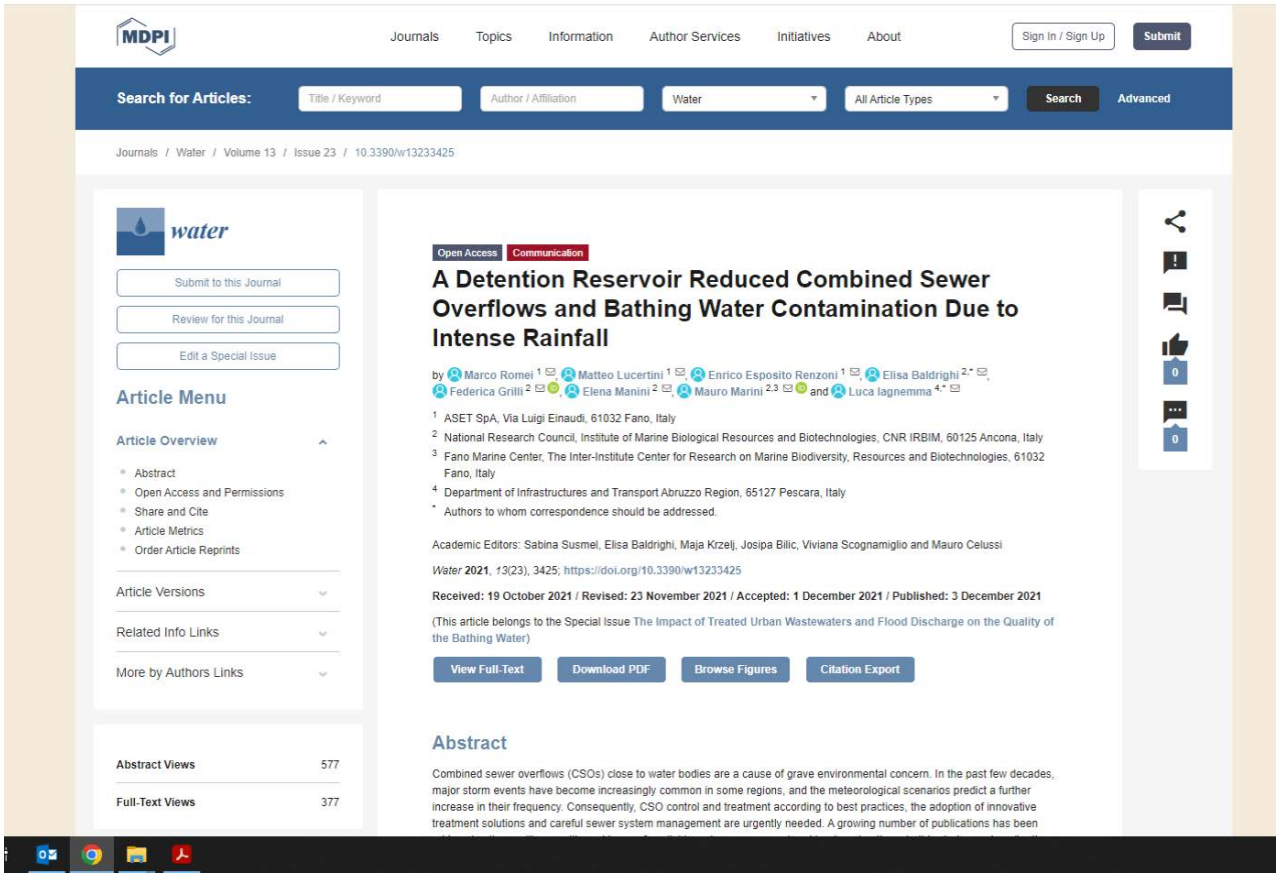

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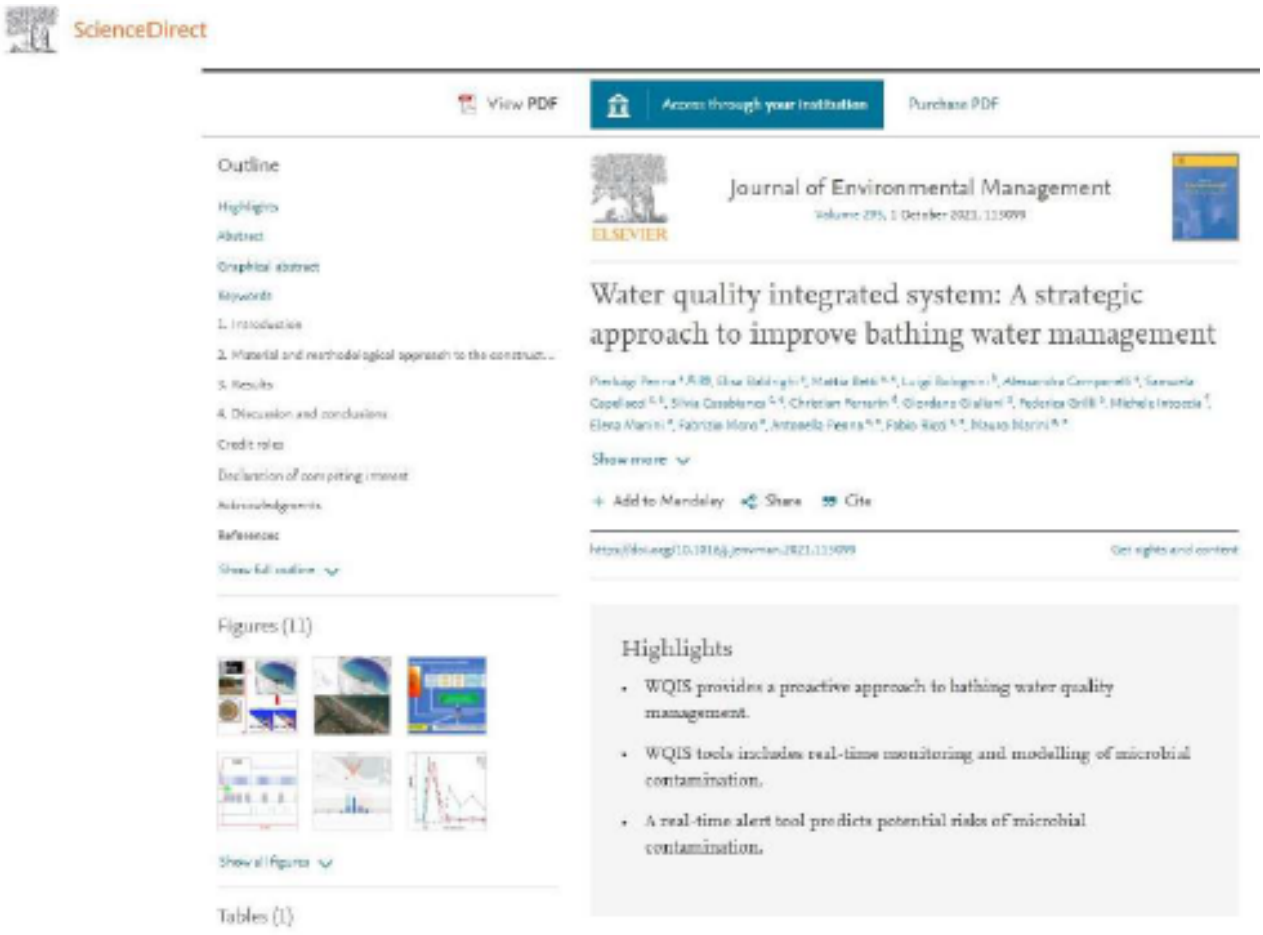

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