MADFORWATER

Contract no. **688320**

MADFORWATER

DevelopMent AnD application of integrated technological and management solutions FOR wasteWATER treatment and efficient reuse in agriculture tailored to the needs of Mediterranean African Countries

Deliverable No.	**7.7**
Deliverable Full title	**Final report on the dissemination activities and materials**
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1.2	08/12/2020	UNIBO	Reviewed and suggested adjustments
1.3	22/12/2020	PNO	Updated finalized version

Partner Acronyms

ALMA MATER STUDIORUM – UNIVERSITÀ DI BOLOGNA (Italy)	UNIBO
INSTITUT SUPERIEUR DE BIOTECHNOLOGIE DE SIDI THABET (Tunisia)	UMA
THE RESEARCH COMMITTEE OF THE TECHNICAL UNIVERSITY OF CRETE (Greece)	TUC
FACULTY OF SCIENCES OF TUNIS, UNIVERSITY OF TUNIS EL MANAR (Tunisia)	UTM
STICHTING WAGENINGEN RESEARCH(Netherlands)	WER
FACHHOCHSCHULE NORDWESTSCHWEIZ (Switzerland)	FHNW
INSTITUT AGRONOMIQUE ET VETERINAIRE HASSAN II (Morocco)	IAV
UNIVERSITÀ DEGLI STUDI DI MILANO (Italy)	UMIL
FOOD AND AGRICULTURE ORGANIZATION OF THE UNITED NATIONS FAO (Italy)	FAORN
UNIVERSIDAD POLITECNICA DE MADRID (Spain)	UPM
CENTRO INTERNAZIONALE DI ALTI STUDI AGRONOMICI MEDITERRANEI - ISTITUTO AGRONOMICO MEDITERRANEO DI BARI (Italy)	IAMB
MINISTRY OF WATER RESOURCES AND IRRIGATION (Egypt)	NWRC
INSTITUT NATIONAL DE RECHERCHE EN SCIENCES ET TECHNOLOGIES POUR L'ENVIRONNEMENT ET L'AGRICULTURE (France)	IRSTE
PNO INNOVATIEADVIES BV (Netherlands)	PNO-In
S.K. EUROMARKET LTD (Cyprus)	SKE
ROLLAND-ARROSEURS SPRINKLERS (France)	ROLLA
NANJING UNIVERSITY (People's Republic of China)	NJU

Content

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List of Acronyms and Abbreviations

CA: Consortium Agreement
D: Deliverable
DCP: Dissemination and Communication Plan
DoW: Description of Work, referring to the Annex I of the Grant agreement
D&C: Dissemination & Communication
EC: European Commission
EIP: European Innovation Partnership
GA: Grant Agreement
KPI: Key Performance Indicator
M: Month
PU: Public
QA: Quality Assurance
WP: Work Package

Executive summary

The final MADFORWATER dissemination report outlines the dissemination and communication tools and activities implemented over the project's execution period. MADFORWATER dissemination actions aimed to communicate project activities and results to a wide audience, including relevant stakeholders and the general public. The aim of the dissemination and communication activities was:

- To widespread the project objectives and potential benefits towards the stakeholders in order to generate awareness without compromising IPR;
- To obtain feedback and suggestions about the intermediate project results to get a comprehensive validation from stakeholders covering all the targeted market sectors;
- To spread out the project outcomes and results not only at European and North African levels but also globally, in order to: create awareness of the MADFORWATER potential, expand the project network as well as gathering and incorporating valuable input from all stakeholders;
- Ensure that there is an on-going reporting of the MADFORWATER results to all the relevant stakeholders;
- Support research entities and SMEs in maximizing the impact of their participation in EC-funded projects;
- Foster international cooperation between European and MAC research and industrial partners in the field of water.

The report presents the final update of the description of the communication channels and tools that have been adopted to disseminate the MADFORWATER project objectives and results. This entails the visual identity, promotion materials and tools and channels for engagement with stakeholders and the general public. Next to this, an overview of documents and materials created to help partners disseminate their results to relevant stakeholders. Furthermore, it presents the results of the D&C efforts set against the key performance indicators (as set in the Grant Agreement). The document will summarize the initiatives implemented to increase the effectiveness of said efforts during the project. Lastly, an overview of the dissemination and communication efforts of the individual partners will be provided.

The document is articulated in 7 sections:

- **Section 1** - *Deliverable 7.7 and MADFORWATER project presentation:* Introduction of the purpose of this deliverable and the MADFORWATER project.
- **Section 2** - *MADFORWATER visual identity:* Presenting the visual identity of the project.
- **Section 3** – *Obligations and guidelines:* overview of applicable obligations and guidance
- **Section 4 -** *Dissemination channels, materials and tools:* Summarized reporting on the dissemination materials developed during the project's lifetime.
- **Section 5** – *Scientific publications:* Overview of MADFORWATER's scientific dissemination efforts
- **Section 6** - *Partners dissemination:* Presents the dissemination tables for activities carried out and planned by each consortium partner including conferences, press release, presentations and papers.
- **Section 7** – *Conclusion:* concluding remarks and summarized overview

1 Deliverable 7.7 and MADFORWATER project presentation

This deliverable deals with all the activities realized throughout the course of the project in order to disseminate the MADFORWATER project results. The document includes a description of the communication channels and tools that have been adopted to disseminate the MADFORWATER project objectives and results. Main aim was to ensure that the project's outcomes were widespread to the appropriate target stakeholders, at appropriate times, with an appropriate methodology. This report includes the initiatives implemented during the project's lifetime and it is to be considered as a final guide to support the consortium to carry out the dissemination activities even after the project has come to a close, using the right materials and channels. For this reason, the deliverable has been updated based on the project's evolution and of the acquired new knowledge that allowed adding new dissemination opportunities. The document will look at the communication materials realised, and the Dissemination and Communication initiatives carried out within 54 months of activities.

1.1 MADFORWATER project objectives and impact

MADFORWATER aimed at achieving the goals of the EU Horizon 2020 call for action topic WATER-5c-2015, by focusing on the development of technological and non-technological solutions for the management of water resources in Tunisia, Morocco and Egypt. Partners of the MADFORWATER project were involved in developing and tailoring technological and management solutions focused on wastewater treatment and efficient reuse in agriculture in North Africa.

The general objective of MADFORWATER was to develop an integrated set of technological and management instruments for the enhancement of wastewater treatment, treated wastewater reuse for irrigation and water efficiency in agriculture, with the final aim to reduce water vulnerability in selected basins in Egypt, Morocco and Tunisia.

1.2 Role of Dissemination and Communication within the project

To increase the engagement of involved stakeholders and increase the visibility of the project in general, a package of Dissemination and Communication activities was developed to support the project and the consortium members. This final report on these dissemination and communication activities and materials provides an overview of the following:

- Visual identity of the project
- The MADFORWATER website
- Social media channels
- Newsletters
- Printed materials
- Participation in events
- Scientific publications

2 MADFORWATER visual identity

One of the first actions in the communication activities was the development of the project's visual identity (VI). The VI was meant for non-verbal (often visual) representation of the MADFORWATER brand, and it comprises important branding elements, namely: project logo, printed materials and general brand style. It is worth mentioning that all current and future project-related materials and tools were developed in English and formatted in line with the H2020 visual guidelines. The project identity was linked with a consistent representation of the MADFORWATER logo on project materials and tools. An attractive graphical representation helped to provide interested parties with the message that the project is disseminating.

2.1 Project logo

For the MADFORWATER project a graphical logo was selected among several ideas realized with the main intention to remember the name of the project as well as the main project goal (water efficiency in agriculture) on the other. The logo selected to represent the MADFORWATER project was the last one shown in the following figure.

Figure 1: Proposed project logo ideas

The MADFORWATER logo (figure 2) depicts the green and blue for sustainable solutions regarding the use and reuse of water the project addresses. A graphic only version of this logo has also been made (figure 2). The main version of the logo was used were possible. The alternative version was to be used when the main version was not suitable due to space or visual constraints. All logo types were also available in white.

Figure 2: Selected project logo and graphic only version

2.2 Project templates

Next to the development of a logo, the following project templates have been realised for the MADFORWATER project:

- **MS Word document template**; Used for all MADFORWATER deliverables, both public and confidential, as well as other documents produced in the MADFORWATER project;
- **PowerPoint presentation template** with the MADFORWATER branding, the project's key messages and a general description, which will be updated and revised throughout the duration of the project;

3 Obligations and guidelines

3.1 Obligations towards the European Commission

Since the MADFORWATER project was funded by the European Commission, there were several obligations the consortium had to comply with to ensure a proper representation of the EC in all D&C activities. Unless the European Commission requests or agrees otherwise or unless it is impossible, any dissemination of results (in any form, including electronic) had to:

(a) display the EU emblem and

(b) include the following text: "This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No 688320".

See below for examples:

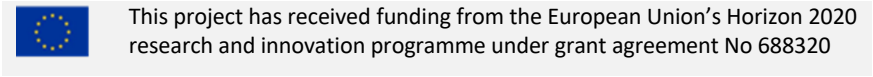

Figure 3: EU logo with text

On following pages, the following was to be used:

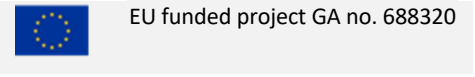

Figure 4: EU logo with GA no.

Furthermore, the following procedures were to be followed:

- When displayed together with another logo, the EU emblem must have appropriate prominence.
- For the purposes of their obligations under this Article, the partners may use the EU emblem without first obtaining approval from the Commission. This does not however give them the right to exclusive use. Moreover, they may not appropriate the EU emblem or any similar trademark or logo, either by registration or by any other means.
- Moreover, any dissemination of results must indicate that it reflects only the author's view and that the Commission is not responsible for any use that may be made of the information it contains.

3.2 Guides and overviews

To support the MADFORWATER consortium in their dissemination and communication activities, several documents were realized to create a coherent base from which partners could approach their relevant stakeholders. The guides and overviews consisted of:

- A GDPR document;
- The content and social media planning.

3.2.1 GDPR document

General Data Protection Regulation (GDPR) is the European Union privacy law. Every time personal data are collected (including photos of participants at events) in the MADFORWATER project, consent needs to be given before this information can be stored and/or used in the project.

For the MADFORWATER project, general consent forms were created that could be used throughout the duration of the project. These forms were signed before every meeting or event if members of the MADFORWATER consortium took photos or collected information from participants. The general consent forms were sent by the WP7 leader on partners' request or on WP7 leader's initiative for D&C purposes. These general forms are suitable for meetings of events and cover the basic approval needed to publish photos or videos for the event. In case partners organized other interactive activities, they were asked to adapt the form if necessary, to fit their activity and its purpose.

3.2.2 Social media content planning document

To connect to the stakeholders throughout the different phases in their stakeholder journey, creating a coherent and consistent online strategy is key. For the MADFORWATER project a social media content calendar was developed to plan and schedule all social content in advance for efficiency and maximum impact (an excerpt is shown in Figure 5).

Feb							
	Week 6		Update on current was	https://onlinelibrary.wil	https://www.sciencedirec	http://publications.	http://www.infrastruc
	Week 7						
	Week 8						
	Week 9						
March							
	Week 10		World Water Day 22 march				
	Week 11	Approach press with proposition (can change depending on source, information exchange, article etc)					
	Week 12	Follow up with press to see if they are interested					
	Week 13						

Figure 5: Social media content calendar

The reason for the development of the social media calendar was twofold: to provide partners with an overview of the content the MADFORWATER project would produce on project level, as well as to serve as an interactive document where partners could participate by adding and refining the available content. The general benefits of a project-wide shared social media content planning document could be summarized as following:

- Partners could add their conferences and events in the general overview;
- PNO Consultants (WP7 leader) would then know when to share on social media project channels (which other partners could share again as well);
- Partners could visit an overview of social media channels, which they could follow, with many EU social media channels added for extra visibility of their efforts;
- The MADFORWATER project added the content they wished to share, which partners could add to their own social media calendars or add notifications that they have more information about the subjects mentioned.

A social media content calendar helped the team of the project channels to stay ahead of all social media holidays (along with 'real' holidays like Thanksgiving and New Year's Day). If relevant we would use that opportunity to elevate the project and engage with followers on special dates.

Today we celebrate the start of #EUGreenWeek! Follow the livestream so you won't miss out on the program and speakers. For more information, visit the website: (show link with image)

Figure 6: Social media post example

4 Dissemination channel overview

In the project's lifetime various dissemination and communication channels have been used. These include both online and offline channels. Furthermore, several dissemination materials and tools have been produced during the project. The dissemination materials have been realized according to different communication needs, to various event typologies and to follow the project maturity and results, and have been deployed both on online platforms as well as offline during events and conferences. In the following paragraphs the implemented dissemination channels, materials and tools are presented.

4.1 MADFORWATER Project Website

The purpose of the website was to gather all information and news about the project, hence all promotional materials were linked to the website. The project website was the portal where external stakeholders could find out more about the MADFORWATER project and connect to the project management and administration. The website can be accessed through the URL www.madforwater.eu.

Figure 7: MADFORWATER website homepage

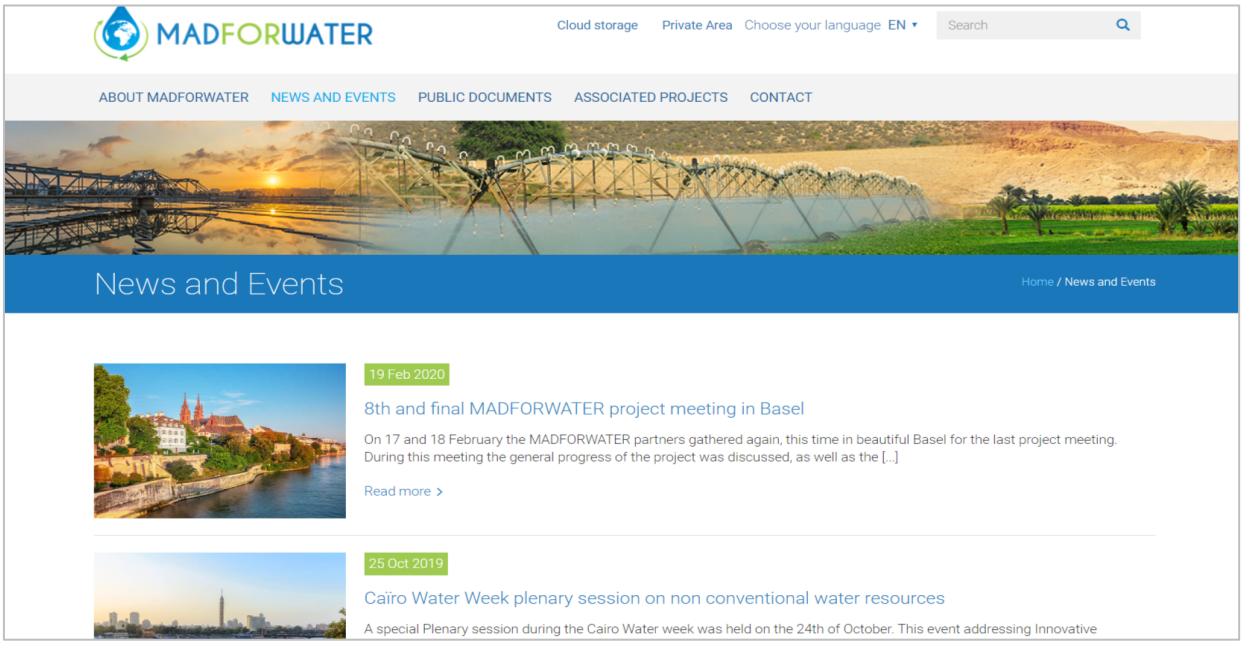

Figure 8: MADFORWATER website menu page

4.1.1 Contents of the website

The MADFORWATER website has been implemented at M3 and was continuously updated. Below are the main sections of the web. The following URL is the Homepage: https://www.madforwater.eu/. The web areas that are available to each user are:

- Home
  - About MADFORWATER
    - At a glance
    - Background
    - The Project
    - Benefits
    - Partners
  - News and Events
  - Public Documents
  - Associated Projects
  - Contact

Additionally, the website contained a private restricted area for internal use (only for the consortium partners), for document sharing, storage of project deliverables, etc. The private website, set-up at M3, is updated on a regular basis. After the login in the private area the users were redirected to the Innovation Place web-platform at the following link: https://www.innovationplace.eu/. Furthermore, a third party cloud storage was added to enable sharing and storage of large-size research data files. The website will be maintained for the next 2 years after project end.

4.1.2 Multilingual website

To facilitate non-native English stakeholders, French and Arabic versions of the main sections of the website were prepared and published in December 2016 (M8). The most important dissemination and communication materials were also translated from English to French and Arabic by a translation agency (newsletters and press releases, as well as brochures, posters and subtitles for the videos). For the weekly updates on social media and smaller activities, English was chosen as the main language.

4.1.3 Privacy update

During the project's lifetimes the EU GDPR regulation was implemented, requiring updates to the project website to ensure compliance. Several updates were done, including a cookie disclaimer and a privacy guideline regarding the use, storage and sharing of personal data and information.

4.1.4 Metrics

The initial performance indicator for the MADFORWATER website was to gain at least 500 unique pageviews each month (measured through Google Analytics). Gradually increasing, this performance indicator was achieved in August 2019 (M40). In the final months (M54) of the project the number of unique site visits increased to over 600 unique visits per months. The most visited part of the website was the project homepage, as well as the news & results section and the "Seven water Africa projects" page. The most viewed news item was '*Four pilot plants of integrated wastewater treatment and agricultural reuse*'.

4.2 MADFORWATER Social Media Channels

Social media channels are a powerful way to communicate with stakeholders and potential stakeholders, allowing them to see the 'product', research, technology or service without having to visit an organization or even be in the same country. These channels are also incredibly useful to showcase the efforts of the partners to the public and create a coherent overview of the process.

By being present on various social media platforms, MADFORWATER therefore increased its visibility and expanded the number of "touch points" with the target audience. Social media presence allowed the project to reach the relevant stakeholders, establish (online) presence and increase MADFORWATER's brand awareness.

MADFORWATER was prominently present on the LinkedIn and Twitter platforms as these are the most relevant in the scientific and academic world. Moreover, Facebook was used as a platform to reach a broader audience. The social media channels that were created for the MADFORWATER project are the following:

- LinkedIn: MADFORWATER project
- Twitter: @ MADFORWATER _EU
- Facebook: MADFORWATER project

In order to grow the audience for the chosen social platforms, the following actions were taken:

- Proactive posting on the MADFORWATER social media channels/platforms;
- Promotion through partner's social media channels; Sharing engaging, interesting and thought-provoking content on the social channels;
- Interlinking with partner's social media channels by means of following/like and requesting to follow/like the account back;
- Following/like other water and wastewater use and reuse projects, European Commission and Horizon 2020 related social media accounts and pages;
- Following/like the audience defined in the stakeholder analysis;

The aim was to post at least once a week, preferably more depending on the availability of news about wastewater treatment in general and news about the project. Before and during events and consortium meetings the posting frequency was higher to create more interaction with the audience during these events. Important to note is that the frequency of posting was largely influenced by the collaboration of the partners.

4.2.1 LinkedIn

LinkedIn is oriented at a "business crowd" as this is a platform where most of the professional stakeholders are present. LinkedIn also allowed MADFORWATER to benefit from existing LinkedIn networks and communities involved in the area of nature-based solutions. The aim was to amplify the communication messages and get it to the target audience in a professional format.

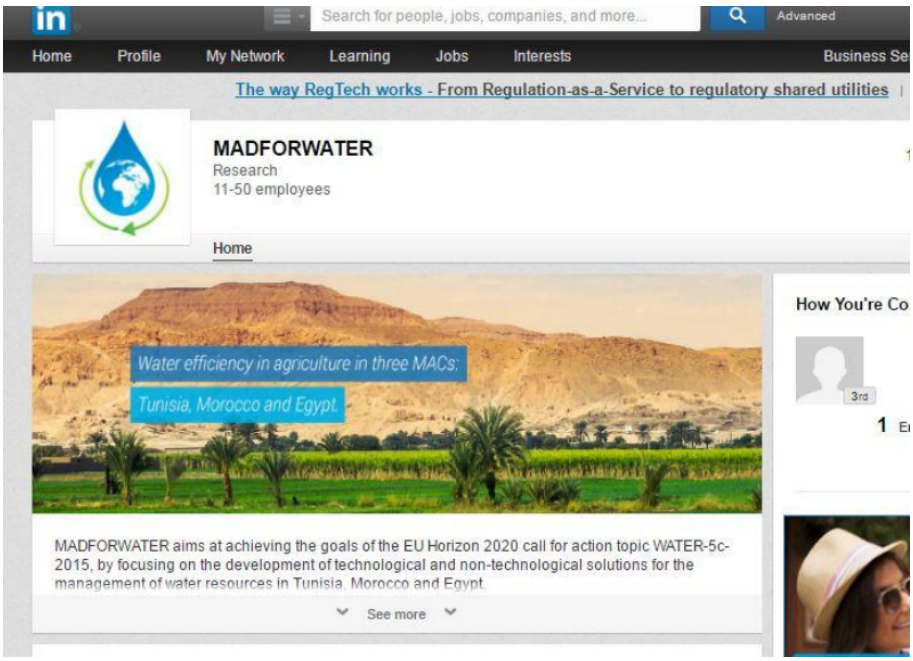

Figure 9: MADFORWATER LinkedIn page

For LinkedIn the posts contained more details about research or related parties, enabling MADFORWATER to link to relevant accounts and add relevant hashtags. Sometimes documents or videos were uploaded as well to create a dynamic page with different content formats. By sharing knowledge about wastewater reuse from trusted sources worldwide as well as activities and events for the project we alerted the relevant communities about the MADFORWATER project and its objectives.

4.2.2 Twitter

Twitter was a perfect channel to focus on research as well as events, where we could update in real-time as events progressed. By showing photos and videos of the event, we could create interaction with the audience and show them who the partners from the project are. The aim was to amplify the message and get it to the target audience in the shortest amount of time using hashtags and notifying relevant accounts. For Twitter the messages were short, and therefore contained more basic information about the news items.

By showing photos and videos of the event, we created interaction with the audience and show them who the partners from the project are. A noticeable side-effect was that the partners are more actively participating during the event as well, sharing and liking the posts of the project.

4.2.3 Facebook

Facebook's target audience is the broadest of all social media channels used within MADFORWATER and helped disseminate the project to the other target audiences like the local governments and general public. Furthermore, MADFORWATER could benefit from the existing Facebook networks and communities involved in the area of water and wastewater treatment. The aim was to amplify the message and get it to the target audience in the shortest amount of time. Facebook is aimed at a broader audience, so the focus was on the objectives of the project and to present those in an easy to digest format. This channel focused more on interaction with the general public, as well as the connections of the partners like students. On this platform we therefore used a more mixed content format than the other platforms, with a combination of text-posts, images, articles, events and short videos.

Figure 10: MADFORWATER Twitter page

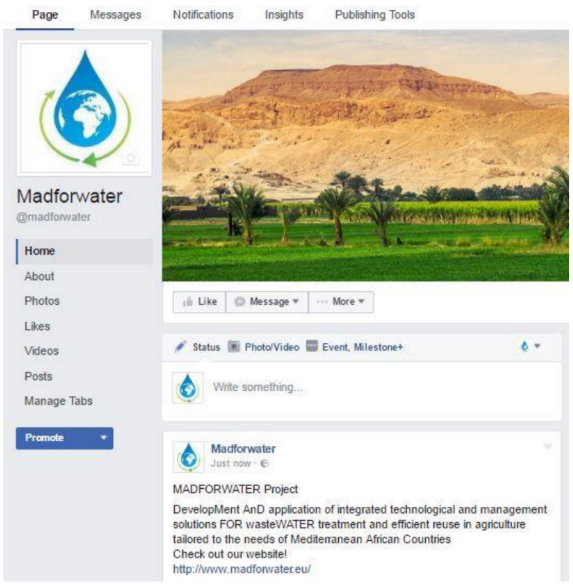

Figure 11: MADFORWATER Facebook page

4.2.4 Metrics

To enable monitoring, data was collected through the joint social media analytics of LinkedIn, Facebook and Twitter, combined with the available data in Hootsuite to add to our conclusions. When Google Analytics was installed at the beginning of 2020, adding a KPI for website visitors also became possible. For LinkedIn the performance indicator was based on the number of followers and was set at 150 followers. The LinkedIn account ended up having 153 followers, whereas the Facebook site had 159 followers at the end of November 2020. An interesting insight is that notifications about special days are highly appreciated, while this has less effect on the more business-like platform LinkedIn. Twitter is also a social media platform aimed at a broader audience, however gaining more followers and impressions was difficult on this platform as well. The MADFORWATER Twitter account eventually gained 77 followers. The Twitter audience is, like the Facebook audience, also content with shorter messages, images and less high-level content, since there is a limited character space to convey a message.

Channels	Link	# of users
MADFORWATER website	http://www.madforwater.eu/	> 500 / month
MADFORWATER Facebook account	https://www.facebook.com/madforwater/	159 followers
Linkedin MADFORWATER project page	https://nl.linkedin.com/company/madforwater	153 followers
MADFORWATER Twitter account	https://twitter.com/madforwater	77 followers

4.3 Printed materials

Additional materials were developed to communicate the values and results of the project: brochures, flyers, posters and other required physical materials, often printed. These materials were used at public and private events and conferences and are available for download on the MADFORWATER website at https://www.madforwater.eu/public-documents.

4.3.1 Project brochure

The first brochure is reported hereafter (Figure 12). In the brochure, the MADFORWATER objectives and benefits are described, together with a contact section and the logos of the partners involved in the project.

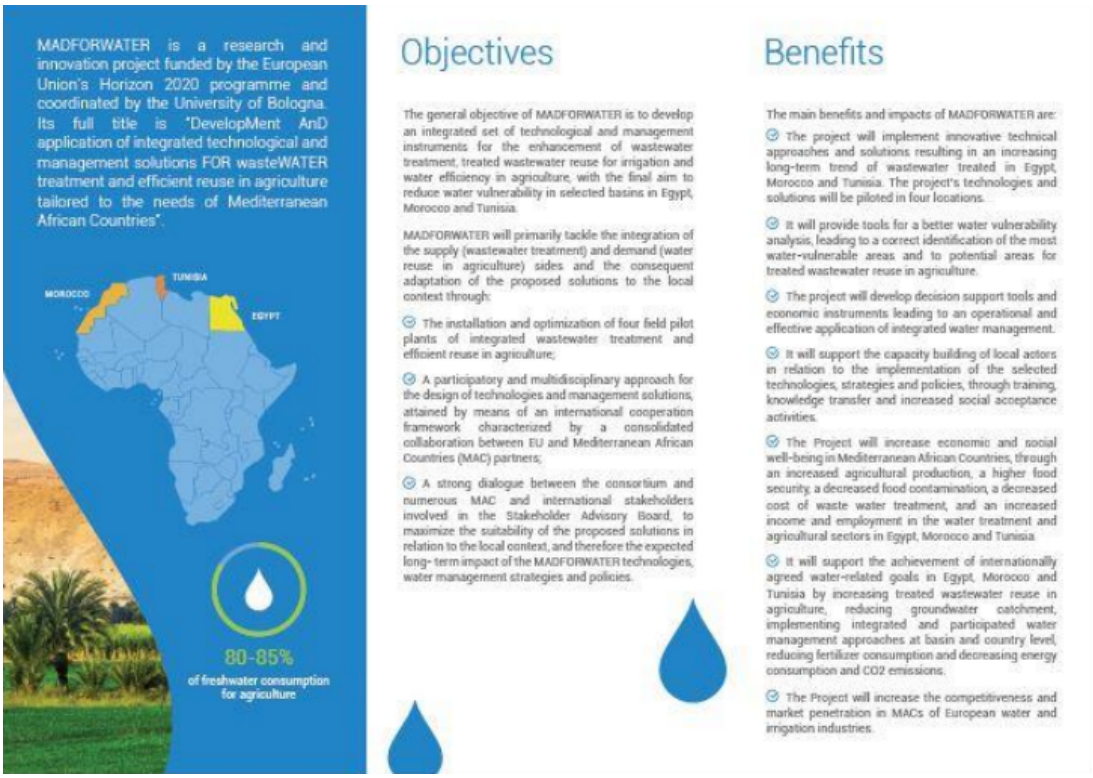

Figure 12: MADFORWATER project brochure

4.3.2 Final project leaflet

The MADFORWATER objectives and benefits are also presented in a project leaflet, together with a contact sections and presentation of the partners involved in the project

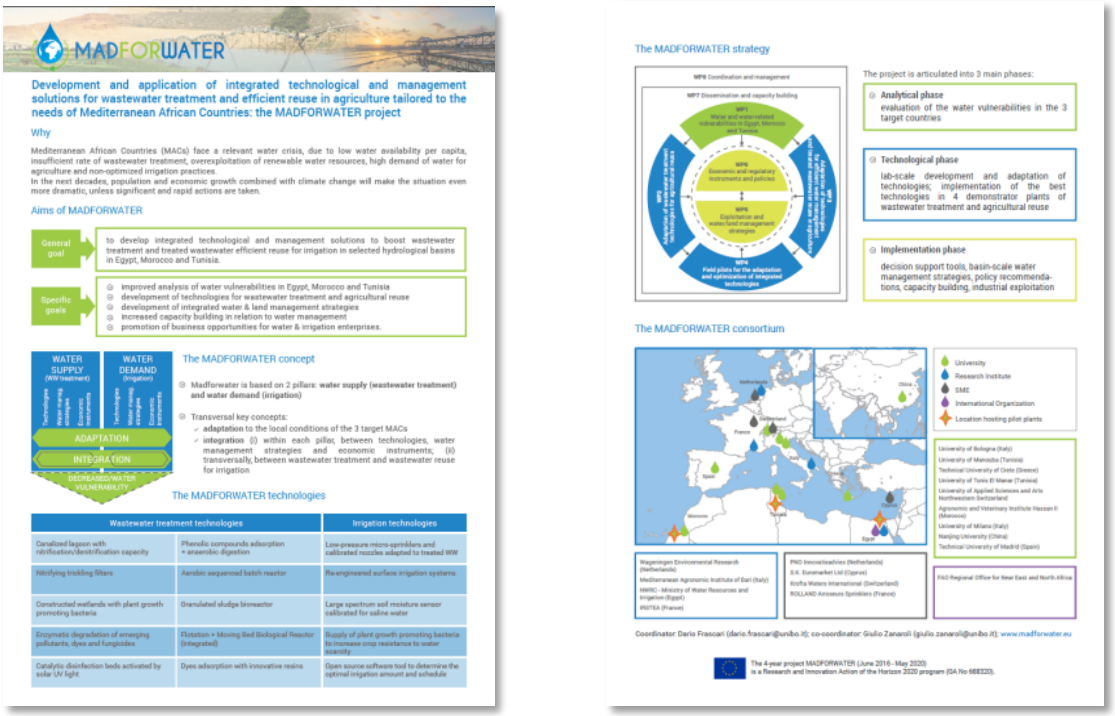

Figure 13: MADFORWATER project leaflet

At the project end a final leaflet was published (Figure 14), summarizing the overall results of the project including pilot descriptions and results as well as the achieved decisions support tools and water managements strategies. The final leaflet was published in English, French and Arabic,

on A5 format, and it is available on the project's website (https://www.madforwater.eu/public-documents).

Figure 14: MADFORWATER final project leaflet

4.3.3 Technical booklet

Another dissemination effort involves the publication of the MADFORWATER technical booklet, which focuses on the presentation of the main results attained by MADFORWATER in the framework of the technological phase. In particular, the results of the development and adaptation of the WW and irrigation technologies at laboratory scale, as well as the results achieved in the 4 pilot plants of integrated WW treatment and agricultural reuse.

The technical booklet was published in English, French and Arabic, and it is available on the project's website (https://www.madforwater.eu/public-documents). It was also deposited in the AMS Acta repository of the University of Bologna, in order to ensure long-term preservation and accessibility.

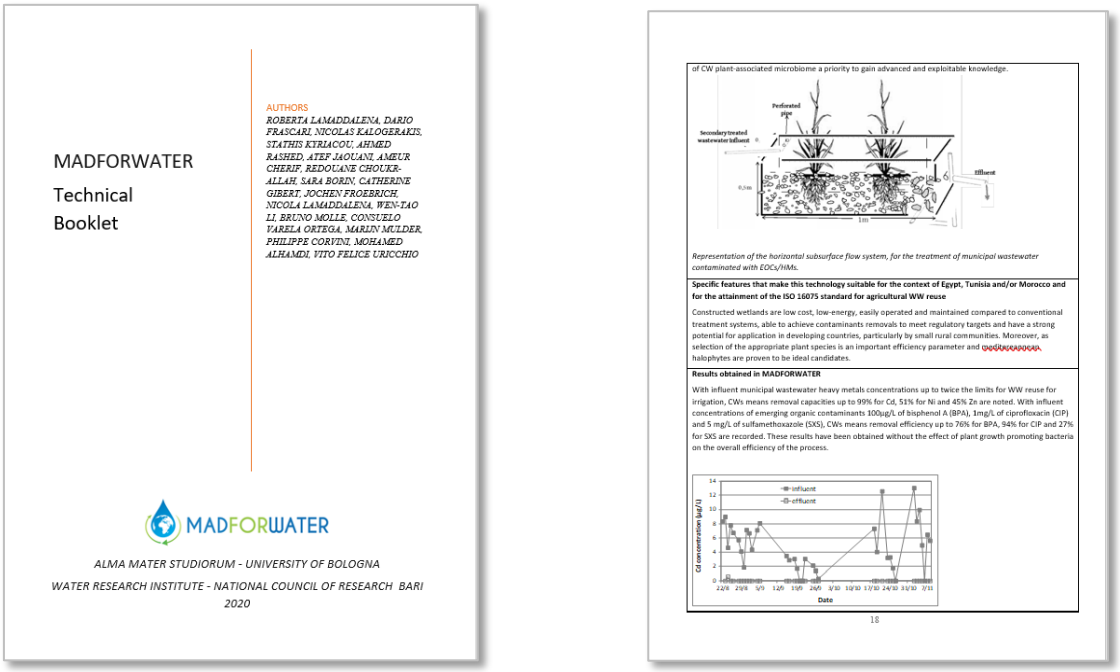

Figure 15: MADFORWATER technical booklet (draft version)

4.3.4 Project posters

For the purpose of dissemination at events a main poster was developed, depicting the MADFORWATER aim, objectives, as well as the technologies affected by the project, together with a contact section and the logos of the partners involved in the project. In the course of the project a progress and results oriented poster was delivered.

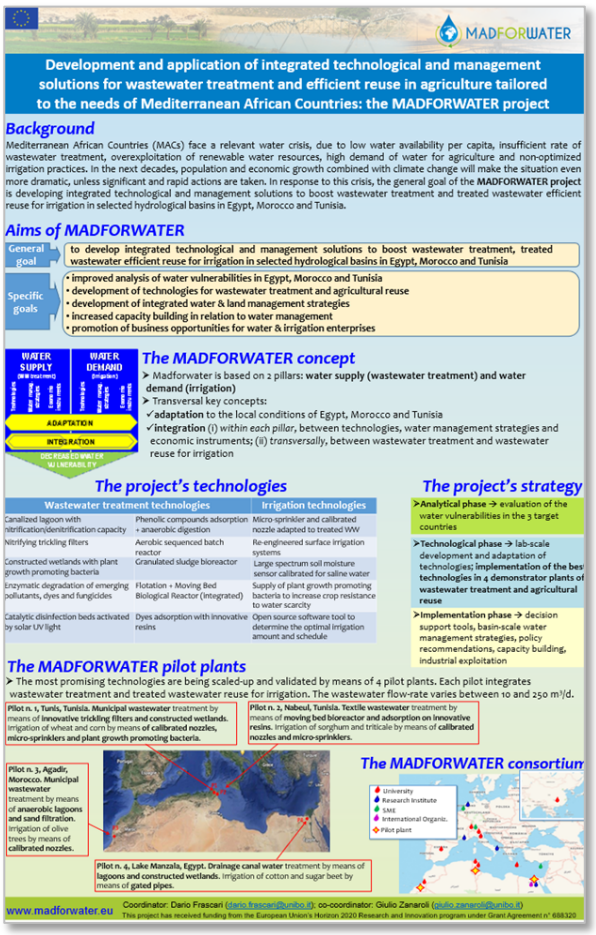

Figure 16: MADFORWATER project posters

4.4 Project Videos

Video's are powerful, effective means for communication—now more than ever. With hectic schedules, people often prefer to watch a two-minute video versus taking 15 minutes to read the same information. Other benefits of videos include:

- Video boosts conversion rates. Because video is easy to understand and can guide a stakeholder to act a certain way, it is the perfect medium to help understand the subject MADFORWATER is researching, and set up a call to action at the end to contact the MADFORWATER project administration or subscribe to the project's newsletter.
- Search engines prefer video material, since they are looking for content that engages viewers. Viewing a video means spending more time on a page, thereby increasing the longer page views. This in turn has a positive effect on the online visibility of the website.
- Video builds trust and credibility. It shows the people behind the project and enables the project to connect with viewers and earn their trust. And trust in turn leads to conversions on the website and a change from awareness to consideration in the stakeholders' journey.
- Video encourages social shares, which in turn expands the visibility of the MADFORWATER project on the social media channels Twitter, Facebook and LinkedIn.

To make optimal use of this effective marketing material, six different videos were produced:

- An introductory video aiming at describing the project main features, addressing the general public.
- A final project video, which showed the results and impacts of the project with a language easily accessible not only to stakeholders but also to the general public;
- 4 pilot-plant specific videos which show the locations of the pilot plants and the specific challenges and solutions implemented in each plant.

All videos were published on the project website (https://www.madforwater.eu/videos) and shared through the project's social media channels. Partners were encouraged to use the video material as part of their interaction process with local stakeholders, to provide them an easily accessible video about the installations and pique their interest. The COVID-19 situation that emerged in the beginning of 2020 resulted in several difficulties and delays regarding the production of the final and technical videos, as travel restrictions significantly delayed the local capturing of video imagery at the pilot locations in both Tunisia and Morocco.

Figure 17: MADFORWATER videos screenshots

4.5 Newsletters

Four online and printed newsletters, available in English, French and Arabic, were produced during the project's lifetime (M12, M24, M36, M54) to inform the main stakeholders identified for this purpose on the project's progress. The newsletters contained: recent news, project progress reports, possible publications, press releases and MADFORWATER events. These newsletters are available for download on the MADFORWATER website (https://www.madforwater.eu/public-documents/) and were actively promoted on available social media channels.

MADFORWATER Newsletter | Issue n°3 | July 2019

MADFORWATER

DevelopMent AnD application of integrated technological and management solutions FOR wasteWATER treatment and efficient reuse in agriculture tailored to the needs of Mediterranean African Countries

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Dear Reader,

welcome to the third newsletter of MADFORWATER, an Horizon 2020 Research and Innovation Action project financed under topic WATER-5c-2015 "Development of water supply and sanitation technology, systems and tools, and/or methodologies" and coordinated by the University of Bologna (Italy). The general goal of MADFORWATER is to develop a set of integrated technological and management solutions to enhance wastewater treatment, treated water reuse for irrigation and water efficiency in agriculture in Egypt, Morocco and Tunisia. MADFORWATER is focusing on municipal, agro-industrial and industrial wastewaters, as well as on the drainage canal waters of the Nile Delta. The development and validation of technologies is combined to the definition of integrated water management strategies, tailored to the local context of selected hydrological basins in Egypt, Morocco and Tunisia.

MADFORWATER, started on June 1 2016, has reached its 36th month of activity. During the 3rd year of activity, the identification of the best-performing MADFORWATER technologies for wastewater treatment and irrigation was performed, and the four pilot plants dedicated to the scale-up and testing of these technologies in field conditions were designed and constructed. One of these plants is already in operation, whereas for the others the shipment and installation is in progress. These technological activities have been integrated by the development of water management models, that will be used for the development of water management strategies during the last year of activity.

In this newsletter you will find:
- a description of the four MADFORWATER pilot plants;
- the results of the analysis of water security in Egypt, Morocco and Tunisia, and of its impact on food security and socio-economic development.
- the illustration of the MADFORWATER model-based approach for the development of water & land management strategies in agriculture;

The next newsletter will be released in May 2020.

Enjoy the reading! If you would like to receive further information or to set up collaborations, feel free to contact us:

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Figure 18: MADFORWATER third newsletter: PDF screenshot of the first page

5 Scientific publications

The MADFORWATER project partners also supported dissemination and knowledge transfer to academic and research stakeholders though publications for technical and/or scientific literature and dedicated journals (web and print). ANNEX 1 includes a detailed overview of the scientific articles that were published within the scope of the MADFORWATER project. **Over the entire course of the project, the consortium has published a total of 32 scientific papers with peer review, published in scientific journals (30) and international book chapters (2).**

During the 3rd reporting period, UNIBO and WER promoted a special series of the scientific journal "Integrated Environmental Assessment and Management", composed of 9 articles in which the main outcomes of a selection of the 7 "Water for Africa" Horizon 2020 projects are presented (volume 16, issue 6, pp. 853-953). 5 of these articles were written by MADFORWATER partners, and 6 out of the 8 Guest Editors of the special series are affiliated to MADFORWATER partner institutions.

MADFORWATER's publication were included in several journals, including the following (non exhaustive):

- Integrated Environmental Assessment and Management
- Environmental Technology
- Water Research
- Chemical Engineering Journal
- Journal of Chemical Technology and Biotechnology
- Microbial Ecology
- Applied Soil Ecology

Each beneficiary was to ensure open access (free of charge online access for any user) to all peer-reviewed scientific publications relating to MADFORWATERs results and make publications available in pre-published format. More details on the type (green or gold) of open accessibility selected for each scientific publication are reported in Del. 7.10 (Final Data Management Plan). An overview of other publication efforts such as book chapters and conference proceedings can be found in ANNEX 2.

6 Policy recommendations

Withing the scope of MADFORWATER several policy recommendations were identified to promote the adoption of the proposed technologies and integrated waster & land management strategies in the target countries of Morocco, Tunisia and Egypt. To establish the recommendations, the situation in the target countries was analysed by means of an agro-economic model and a Multicriteria Analysis was carried out to identify barriers and opportunities. On this basis, policy recommendations and conclusions were identified for each target country individually including recommendations on water reclamation, water security, water management, introduction of technological innovations, water supply and more. Deliverable 6.1 on Integrated water & land management strategies and policy recommendations provides a detailed presentation on MADFORWATER's policy recommendations. These recommendations were disseminated to relevant stakeholders – including farmers, water associations, river basin authorities, business firms for irrigation tools and WWT tools , ecologists, government officials, and others – through interviews, meetings, conferences and field visits.

7 Partner dissemination activities

7.1.1 Support to project dissemination

The implementation of the dissemination activities could not be done without actively involving all partners. Actual, relevant and reliable information is required to support the full communication of the project results. Hence, every consortium partner had an important role in the dissemination of project results, and committed themselves to present and disseminate project outcomes. Responsibilities included:

- Help preparing the dissemination plan and implementing it;
- Help by identifying stakeholders, networks and contribute to a summary of the most relevant stakeholders;
- Contribute to the creation of newsletters;
- Spread the newsletters;
- Contribute to the design of logo and leaflets and all communication & marketing material;
- Contribute to the development of the project web page;
- Actively share project-related news with the project's administration, who will disseminate the news through the appropriate international social media channels.

MADFORWATER partners have been asked to maintain an active participation within the project's communication and dissemination activities. However, it proved to be difficult for partners to keep the D&C of the MADFORWATER project in mind while working on their respective work packages during the project, which caused some loss of visibility of the project when participation in events or congresses was not internally communicated in time. An overview of

7.1.2 Events visited and/or organised

Apart from using the project's dissemination channels, the MADFORWATER project partners also performed their own individual dissemination and communications activities. These activities included organisation of workshops and events, participation in events, updates on their websites, and for instance press releases. Notably, as final dissemination event, in the framework on the 2nd International Conference on Water Resources in Arid Areas, a special session entitled "Economics and management of wastewater" took place on November 11, 2020, dedicated almost entirely to the presentation of the main outcomes of MADFORWATER. This online session featured an overview presentation of the project given by UNIBO, 2 presentations of the MADFORWATER pilot plants given by UTM and IAV, a presentation of the model for irrigation scheduling with treated WW given by IAMB and a presentation on the DST for water management in agriculture given by UPM. This special session was attended online by 83 participants.

ANNEXES 3 – 4 – 5 provide a detailed overview of the partners dissemination and communication activities undertaken over the course of the project.

8 Conclusions and evaluation of dissemination and communication indicators

In light of the above, a fair estimate of the dissemination and communication efforts carried out in the first year of the MADFORWATER project is that the reach was adequate, considering that all tools and technologies were in their early stages. These results improved as the project matured, showing a gradual increase in metrics for the website, and adequate numbers of followers on both LinkedIn, Facebook and Twitter, and most D&C KPIs met at the end of the project. Impact has been further supported by individual efforts from the partners, each of whom have promoted, disseminated and communicated MADFORWATER and its tools across their own channels. MADFORWATER was also presented at over 80 events with over 25.000 stakeholders reached. Furthermore several workshops were organised, including stakeholder consultation workshops in Morocco, Tunisia as well as Egypt. Project partners also disseminated project results through scientific publications. Finally, as detailed in the report, the dissemination and communication activities of the consortium have to a large extend met the KPIs set at the onset of the project. The partners will naturally continue to promote the outputs of the project in order to ensure the widest possible reach and adoption of the various tools and technologies developed under MADFORWATER. The following table presents a summary of the performance of the dissemination and exploitation activities against KPI targets as defined in the Grant Agreement.

No.	KPI	Status	Results and comments
1	Project website online at the beginning of the project (M3)		Website was published and is to be maintained for 2 years after project end
2	# of non-scientific articles prepared for special magazines		>5 non-scientific articles were prepared,
3	# of scientific open-access publications		32 scientific articles were published during the project lifetime
4	Four newsletters published in English, French and Arabic		Four newsletters have been published, fourth one at project end incl. final results
5	≥ 5 technical videos produced		4 videos were published at project end, due to covid-19 several delays occurred (*final videos are expected 15/1/2021*).
6	2 professional-quality promotional-informative videos		2 project videos were realised, first one at project start, second one at project end *(final video expected 10/1/2020)*
7	# of presentations at international research and professional conferences		≥ 80 events were attended, with ≥40 presentations given
8	Final project conference organized		Virtual final conference was held in November 2020
9	Visual identity available		Visual identity was realized
10	Project leaflet available		Leaflet is available
11	Set up of social media accounts		Twitter, Facebook and LinkedIn accounts have been established
12	Final project leaflet available		Final leaflet delivered (M55)
13	Field pilots leaflet and poster		In progress (*expected for 15/1/2021*)
14	At least 3 press releases produced		Partners published several press releases during the project lifetime
15	# of policy briefs		Several police briefs were established and disseminated (see D6.1)
16	1 booklet on the MADFORWATER technologies and on wastewater reuse good practices		Technical booklet in progress (*expected 10/1/2020*)

= Achieved; = in progress; = underachieved; = not started yet

Table 1: Progress of the KPIs related to Dissemination and Communication

ANNEX 1 – MADFORWATER PEERREVIEWED SCIENTIFIC PUBLICATIONS

Gold Open Access

Green Open Access

Publication	Authors	Year	Title of the Journal or Book	Link to Repository	Status
Batch and Continuous Flow Adsorption of Phenolic Compounds from Olive Mill Wastewater: A Comparison between Nonionic and Ion Exchange Resins	Davide Pinelli, Aurora Esther Molina Bacca, Ankita Kaushik, et al.	2016	International Journal of Chemical Engineering, vol. 2016, Article ID 9349627, 13 pages, 2016. doi: 10.1155/2016/9349627	http://amsacta.unibo.it/id/eprint/5487 http://hdl.handle.net/11585/565513	Open Access
Application of UV absorbance and fluorescence indicators to assess the formation of biodegradable dissolved organic carbon and bromate during ozonation	Wen-Tao Li, Meng-Jie Cao, Tessora Young, et al.	2017	Water Research, vol. 111, 154-162, 2017. doi: 10.1016/j.watres.2017.01.009	https://zenodo.org/record/1253723	Open Access
A novel thermally stable heteropolysaccharide-based bioflocculant from hydrocarbonoclastic strain Kocuria rosea BU22S and its application in dye removal	Habib Chouchane, Mouna Mahjoubi, Besma Ettoumi, et al.	2017	Environmental Technology, vol. 39(7), 859-872, 2017. doi: 10.1080/09593330.2017.1313886	https://zenodo.org/record/1253982	Open Access
Groundwater Resources Scarcity in Souss-Massa Region and Alternative Solutions for Sustainable Agricultural Development	Imane Mansir, Lhoussaine Bouchaou, Redouane Choukr-allah, et al.	2017	Calvache M., Duque C., Pulido-Velazquez D. (eds) Groundwater and Global Change in the Western Mediterranean Area, 189-197, 2017. doi: 10.1007/978-3-319-69356-9_22 *(peer-reviewed conference paper published as chapter in volume)*	https://zenodo.org/record/1211134	Open Access
High-efficient removal of phthalate esters from aqueous solution with an easily regenerative magnetic resin: Hydrolytic degradation and simultaneous adsorption	Qimeng Li, Cheng Wang, Ming Hua, et al.	2018	Journal of Cleaner Production, vol. 175, 376-383, 2018. doi: 10.1016/j.jclepro.2017.11.121	https://zenodo.org/record/1160434	Open Access
Preparation of Permanent Magnetic Resin Crosslinking by Diallyl Itaconate and Its Adsorptive and Anti-fouling Behaviors for Humic Acid Removal	Qimeng Li, Ji Wu, Ming Hua, et al.	2017	Scientific Reports, vol. 7, Article ID 17103, 11 pages, 2017. doi: 10.1038/s41598-017-17360-8	https://zenodo.org/record/1160417	Open Access
The reuse of reclaimed water for irrigation around the Mediterranean Rim: a step towards a more virtuous cycle?	Nassim Ait-Mouheb, Akiça Bahri, Bechir Ben Thayer, et al.	2018	Regional Environmental Change, vol. 18, issue 3, 693-705, 2018. doi: 10.1007/s10113-018-1292-z	https://hal.inrae.fr/view/index/identifiant/hal-01767840	Open Access
Pseudomonas rhizophila S211, a New Plant Growth-Promoting Rhizobacterium with Potential in Pesticide-Bioremediation	Wafa Hassen, Mohamed Neifar, Hanene Cherif, et al.	2018	Frontiers in Microbiology, vol. 9, Article ID 34, 17 pages, 2018. doi: 10.3389/fmicb.2018.00034	https://zenodo.org/record/1253972	Open Access

Publication	Authors	Year	Title of the Journal or Book	Link to Repository	Status
Microbial Bioremediation of Petroleum Hydrocarbon–Contaminated Marine Environments	Mouna Mahjoubi, Simone Cappello, Yasmine Souissi, et al.	2018	Zoveidavianpoor M. (ed) Recent Insights in Petroleum Science and Engineering, 325-350, 2018. doi: 10.5772/intechopen.72207 *(peer-reviewed book chapter)*	https://zenodo.org/record/1244090	Open Access
Integrated technological and management solutions for wastewater treatment and efficient agricultural reuse in Egypt, Morocco and Tunisia	Dario Frascari, Giulio Zanaroli, Mohamed Abdel Motaleb, et al.	2018	Integrated Environmental Assessment and Management, vol. 2018, 16 pages, 2018. doi: 10.1002/ieam.4045	http://amsacta.unibo.it/id/eprint/5875 http://hdl.handle.net/11585/670106	Open Access
Applying UV Absorbance and Fluorescence Indices to Estimate Inactivation of Bacteria and Formation of Bromate during Ozonation of Water and Wastewater Effluent	Ji Wu, Shi Cheng, Min-Hui Cai, et al.	2018	Water Research, vol. 145, 354–364, 2018. doi: 10.1016/j.watres.2018.08.030	https://zenodo.org/record/2406274 https://zenodo.org/record/3076884	Open Access
Treatment of Olive Mill Wastewater through Employing Sequencing Batch Reactor: Performance and Microbial Diversity Assessment	Fatma Arous, Chadlia Hamdi, Souhir Kmiha, et al.	2018	3 Biotech, vol. 8(11), Article ID 481, 14 pages, 2018. doi: 10.1007/s13205-018-1486-6	https://zenodo.org/record/2551587	Open Access
Valorisation of Olive Mill Wastewater by Phenolic Compounds Adsorption: Development and Application of a Procedure for Adsorbent Selection	Dario Frascari, Giorgia Rubertelli, Fatma Arous, et al.	2018	Chemical Engineering Journal, vol. 360, 124-138, 2019. doi: 10.1016/j.cej.2018.11.188	Postprint: http://hdl.handle.net/11585/689401 Preprint: http://doi.org/10.6092/unibo/amsacta/6044	Open Access Open Access
Soil Parameters Drive the Diversity of Citrus Sinensis Rhizosphere Microbiota Which Exhibits a Potential in Plant Drought Stress Alleviation	Marwa Cherni, Raoudha Ferjani, Francesca Mapelli, et al.	2018	Applied Soil Ecology, vol. 135, 182-193, 2019. doi: 10.1016/j.apsoil.2018.12.006	http://hdl.handle.net/2434/616765	Embargo (accessible after March 15, 2021)
Poseidon—Decision Support Tool for Water Reuse	Emmanuel Oertlé, Christoph Hugi, Thomas Wintgens, et al.	2019	Water, vol. 11(1), Article ID 153, 26 pages, 2019. doi: 10.3390/w11010153	https://zenodo.org/record/3238277	Open Access
Bacterial Endophytes of Mangrove Propagules Elicit Early Establishment of the Natural Host and Promote Growth of Cereal Crops under Salt Stress	Riccardo Soldan, Francesca Mapelli, Elena Crotti, et al.	2019	Microbiological Research, vol. 223-225, 33-43, 2019. doi: 10.1016/j.micres.2019.03.008	http://hdl.handle.net/2434/645391	Open Access
Continuous Flow Adsorption of Phenolic Compounds from Olive Mill Wastewater with Resin XAD16N: Life Cycle Assessment, Cost–Benefit Analysis and Process Optimization	Dario Frascari, Aurora Esther Molina Bacca, Tjerk Wardenaar, et al.	2019	Journal of Chemical Technology and Biotechnology, vol. 94(6), 1968-1981, 2019. doi: 10.1002/jctb.5980	http://hdl.handle.net/11585/691754	Open Access

Publication	Authors	Year	Title of the Journal or Book	Link to Repository	Status
Evaluation of a constructed wetland for wastewater treatment: Addressing emerging organic contaminants and antibiotic resistant bacteria	Stavros Christofilopoulos, Andreas Kaliakatsos, Konstantina Triantafyllou,, et al.	2019	New Biotechnology, vol. 52, 94-103, 2019. doi: 10.1016/j.nbt.2019.05.006	https://zenodo.org/record/3352210	Open Access
Developing surrogate indicators for predicting suppression of halophenols formation potential and abatement of estrogenic activity during ozonation of water and wastewater	Yu Huang, Shi Cheng, Ya-Ping Wu, et al.	2019	Water Research, vol. 161, 152-160, 2019. doi: 10.1016/j.watres.2019.05.092	https://zenodo.org/record/3354022	Embargo (accessible after May 27, 2021)
Root Bacteria Recruited by Phragmites australis in Constructed Wetlands Have the Potential to Enhance Azo-Dye Phytodepuration	Valentina Riva, Francesca Mapelli, Evdokia Syranidou, et al.	2019	Microorganisms, vol. 7, Article ID 384, 21 pages, 2019. doi: 10.3390/microorganisms7100384	http://hdl.handle.net/2434/678590	Open Access
Microbial Assisted Phytodepuration for Water Reclamation: Environmental Benefits and Threats	Valentina Riva, Francesco Riva, Lorenzo Vergani et al.,	2019	Chemosphere, vol. 241, Article ID 124843, 11 pages, 2020. doi: 10.1016/j.chemosphere.2019.124843	http://hdl.handle.net/2434/694457	Open Access
Innovative Biological Approaches for Contaminants of Emerging Concern Removal from Wastewater: A Mini-Review	Arous Fatma, Hamdi Chadlia, Salma Bessadok, et al..	2019	Advances in Biotechnology & Microbiology, vol. 13(5), 00114-00120, 2019. doi: 10.19080/AIBM.2019.13.555875 (https://juniperpublishers.com/aibm/AIBM.MS.ID.555875.php)	https://zenodo.org/record/3738208	Open Access
Assessment of Airborne Transport of Potential Contaminants in a Wind Tunnel	Ivano Cornacchia, Séverine Tomas, Jean-Paul Douzals, et al.	2019	Journal of Irrigation and Drainage Engineering, vol. 146(1), Article ID 04019031, 14 pages, 2019. doi: 10.1061/(ASCE)IR.1943-4774.0001423	https://hal.archives-ouvertes.fr/hal-02478458	Open Access
Transdisciplinary Innovation in Irrigated Smallholder Agriculture in Africa	Jochen Froebrich, Eva Ludi, Sami Bouarfa, et al.	2020	Irrigation and Drainage, vol. 69(S1), 6-22, 2020. doi: 10.1002/ird.2400	https://zenodo.org/record/4057953	Open Access
Comparative Preliminary Evaluation of 2 In-stream Water Treatment Technologies for the Agricultural Reuse of Drainage Water in the Nile Delta	Davide Pinelli, Giulio Zanaroli, Ahmed Ali Rashed, et al.	2020	Integrated Environmental Assessment and Management, vol. 16, 920-933, doi: 10.1002/ieam.4277	http://hdl.handle.net/11585/761386	Open Access
Unveiling the Microbiota Diversity of the Xerophyte *Argania spinosa* L. Skeels Root System and Residuesphere.	Francesca Mapelli, Valentina Riva, Lorenzo Vergani, et al.	2020	Microbial Ecology, vol. 80, 822–836, 2020. doi: 10.1007/s00248-020-01543-4	http://hdl.handle.net/2434/746079	Open Access

Publication	Authors	Year	Title of the Journal or Book	Link to Repository	Status
Decision Support Tool for Water Reclamation Beyond Technical Considerations – Egyptian, Moroccan and Tunisian Case Studies	Emmanuel Oertlé, Sandra Regina Mueller, Redouane Choukr-Allah, et al.	2020	Integrated Environmental Assessment and Management, vol. 16, 885-897, 2020. doi: 10.1002/ieam.4303	http://amsacta.unibo.it/id/eprint/6466	Embargo (accessible after February 28, 2021)
Innovative research approaches to cope with water security in Africa	Angel de Miguel, Jochen Froebrich, Atef Jaouani, et al.	2020	Integrated Environmental Assessment and Management, vol. 16, 853-855, 2020. doi: 10.1002/ieam.4337	http://hdl.handle.net/11585/775574	Open Access
Development and Application of a Predictive Model for Treated Wastewater Irrigation Management in a Semiarid Area	Giovanna Dragonetti, Roula Khadra, André Daccache, et al.	2020	Integrated Environmental Assessment and Management, vol. 16, 910-919, 2020. doi: 10.1002/ieam.4307	http://amsacta.unibo.it/id/eprint/6493	Embargo (accessible after February 28, 2021)
Treated Wastewater Reuse on Citrus in Morocco: Assessing the Economic Feasibility of Irrigation and Nutrient Management Strategies	Abdellah Oubelkacem, Alessandra Scardigno, and Redouane Choukr-Allah	2020	Integrated Environmental Assessment and Management, vol. 16, 898-909, 2020. doi: 10.1002/ieam.4314	http://amsacta.unibo.it/id/eprint/6486	Embargo (accessible after February 12, 2021)
Development of a continuous-flow anaerobic co-digestion process of olive mill wastewater and municipal sewage sludge	Sara Bovina, Dario Frascari, Alessandro Ragini, et al.	2020	Journal of Chemical Technology and Biotechnology, 2020. doi: 10.1002/jctb.6570	http://hdl.handle.net/11585/775626	Embargo (accessible after March 11, 2021)
Characterization of clogging deposits in an irrigation pipeline and effect of post-aeration on clogging potential of tertiary treated wastewater	Hajar Benlouali, Ilham Karmal, Moulay Cherif Harrouni, et al.	2020	Water Science and Technology, Article ID wst2020552, 2020. doi: 10.2166/wst.2020.552 (in press)	http://hdl.handle.net/11585/781506	Open Access

ANNEX 2 – PUBLICATIONS IN BOOKS AND CONFERENCE PROCEEDINGS

Publication	Authors	Year	Title of Proceedings/Books series/Book	Type of publication
Development and scale-up of technologies for wastewater treatment and reuse in Mediterranean African countries: the MADFORWATER project.	Roberta Lamaddalena, Dario Frascari, Nicolas Kalogerakis, Stathis Kyriacou, Ahmed Rashed, Atef Jaouani, Ameur Cherif, Redouane Choukr-Allah, Sara Borin, Catherine Gibert, Jochen Froebrich, Nicola Lamaddalena, Wen-Tao Li, Bruno Molle, Consuelo Varela Ortega, Marijn Mulder, Philippe Corvini, Mohamed Alhamdi, Vito Felice Uricchio	2020	Lamaddalena R., Frascari D. (Eds.) Development and scale-up of technologies for wastewater treatment and reuse in Mediterranean African countries: the MADFORWATER project. University of Bologna, Bologna and Water Research Institute - National Council of Research, Bari, 2020. DOI: 10.6092/unibo/amsacta/6560. ISBN: 9788854970380.	Technical book
Groundwater Resources Scarcity In Souss-Massa Region And Alternative Solutions For Sustainable Agricultural Development	Mansir, B. Chebli, L. Bouchaou; R. Chouckr-Allah, M. El Otmani	2017	Calvache M., Duque C., Pulido-Velazquez D. (eds) Impacts of Global change of Western Mediterranean aquifers. Oral and posters presentations to the International Congress on Groundwater and Global Change in the Western Mediterranean. Granada, 6-9 November 2017. Editorial Universidad de Granada, ISBN: 978-84-338-6152-8	Publication in Conference proceedings/workshop
MADFORWATER PROJECT poster	Redouane Choukr-allah	2017	Climate Chance Summit 2017 - The progress of Climate Action by Non-State Actors	Publication in Conference proceedings/workshop
Climate change and water valuation in Souss-Massa region: Which management and adaptive measures *(Oral presentation at "EWRA2017: 10th World Congress on Water Resources and Environment")*	Lhoussaine Bouchaou, Redouane Choukr-Allah, Abdelaziz Hirich, Marieme Seif Ennasr, Mouna Malki, Houria Abahous, Brahim Bouaakaz and Abdessadek Nghira	2017	European Water 60:203-209, 2017. https://www.ewra.net/ew/pdf/EW_2017_60_28.pdf	Publication in Conference proceedings/workshop
Wastewater treatment and reuse for irrigation as alternative resource for water safeguarding in Souss-Massa region, Morocco *(presented at EWRA2017: 10th WORLD CONGRESS on Water Resources and Environment "Panta Rhei")*	Malki M., Bouchaou L, Mansir I., Benlouali H., Nghira A., and Choukr-Allah R.	2017	European Water 59:365-371, 2017. https://www.ewra.net/ew/pdf/EW_2017_59_50.pdf	Publication in Conference proceedings/workshop
Effect of treated wastewater on the growth and yield of two sweet corn varieties: impact of doses and systems of irrigation *(presented at the 2nd International Conference on Water Resources in Arid Areas (WRAA2020))*	A.Belabhir, I.Mansir, L.Bouchaou, M.El Otmani, B.Yaakoubi, R.Choukr-Allah	2020	Book of Abstracts. The 2nd International Conference on Water Resources in Arid Areas. November 9-11, 2020, Muscat, Oman. https://conferences.squ.edu.om/Portals/47/AbstractsBook2020_11_24.pdf	Publication in Conference proceedings/workshop

ANNEX 3 – ORGANISATION OF EVENTS BY MADFORWATER PARTNERS

Partner Name	Title	Year	Location	Audience
FAORN	Cairo Water week - MADFORWATER project was promoted in FAO's technical sessions	2019	Cairo, Egypy	600
NJU	The management of hazardous chemicals in China	2017	Nanjing, China	400
NWRC	UNESCO Dr. Flavia Schlegel – ADG of UNESCO for Science & UNESCO office Director in Egypt	2017	NWRC facility	40
NWRC	Slovenia Ambassador to Egypt	2017	NWRC facility	35
NWRC	NSF Meeting with USA-NSF director of cooperation in NWRC facility	2016	NWRC facility	7
NWRC	WS for US-Embassy representatives	2017	NWRC facility	10
NWRC	WS for US-Embassy representatives	2017	NWRC facility	10
NWRC	WS for Chinese Representatives from Chinese Universities	2017	NWRC facility	20
UMA	SAB meeting	2016	Tunis, Tunisia	10
UMA	Local dissemination of UMA contribution to MADFOWATER Project; Laboratory seminar at UMA	2016	UMA- Tunisia	30
UMA	M4W dissemination in TN-ZA project workshop, organised by UMA-UTM. 1ST TUNISIAN-SOUTH AFRICAN INTERNATIONAL-WORKSHOP "Microbial Ecology and Biotechnology In Stressful Environments"	2016	UMA (ISBST)- Tunisia	50
UMA	SAB meeting. Interaction between M4W partners and stakeholders of Mac partners	2016	Agadir-Morocco	25
UMA	SAB meeting: MADFORWATER Tunisian stakeholders meeting	2017	Tunis, Tunisia	30
UMA	Field visit to an Oil-mill, citrus field irrigated by TWW and the planned site of the WW treatment	/2017	Chotrana- Bejaoua (Tunisia)	3
UMA	Problématiques de la réutilisation des eaux usées traitées ou non-conventionnelle en irrigation » presented by Dr. Ing. Nassim Ait Mouheb, Charged of research in- IRSTEA - UMR G-EAU.This conference was presented for ISBST students and researchers from the National Institute of Physicochemical analyses (INRAP) and from the Faculty of sciences Tunisia	2017	UMA-ISBST	85
UMA	meeting with a supervisor in the Agriculture Ministry department of Water Valorisation	2017	Tunisia	1
UMA	meeting with a supervisor in the National Agence of Environmental Protection	2017	Tunisa	1
UMA	2nd Stakeholder meeting , hosted by UTM and UMA teams	2018	Tunisia	20
UMA	Safe Irrigation Management modules (SIM) Presented by: Dr. Giovanna DRAGONETTI, Scientific consultant from CIHEAMBari	2019	Tunisia - ISBST	15

UMA	"Provide irrigation management strategies using modeling approach Safe Irrigation Management (SIM) tool", presented by Dr. Giovanna Dragonetti from CIHEAMBari	2019	Tunisia	17
UMA	Signature of an agreement between the UMA and the Tunisian Sanitation Utility (ONAS), in aim to treat MWW for agriculture use	2019	Tunisia	18
UMA	Visit of the MADFORWATER pilots: irrigation pilot and WWT pilot	2020	ISBST- Onas Chotrana (Tunisia)	40
UTM	Meeting among researchers from UTM and partners from Global washing to discuss potential textile wastewater treatment technologies in the frame of M4W project	2016	Global WASHING, Korba, Tunisia	8
UTM	SAB meeting between stakeholders and end-users to present MADFORWATER project and to discuss the possibilities for cooperation and interaction with Tunisian institutions.	2016	Tunis-Tunisia	10
UTM	Workshop among researchers from UTM and UMA, and partners in the frame of Tunisian – South African research project to introduce the Tunisian contribution to MADFOWATER Project.	2016	Tunis-Tunisia	70
UTM	Meeting among researchers from UTM and partners from INM (National Institute of Meteorology in the frame of MADFORWATER project to present MADFORWATER project and to discuss the possibilities for cooperation and interaction.	2017	INM, Tunis- Tunisia	13
UTM	SAB meeting among researchers from UTM, Stakeholders and end-users. Presentation of innovation and selection by Stakeholders. Co-construction of Drivers& hurdles to irrigate with treated waste water	2017	Tunis-Tunisia	30
UTM	SAB meeting among MADFORWATER partners, stakeholders and end-users. Presentation of MADFORWATER technologies and participative assessment of effective solutions to enhance wastewater treatment, treated wastewater reuse for irrigation and efficient irrigation technologies in Mediterranean African Countries.	2018	Tunis-Tunisia	24
WER	1st Stakeholder meeting in the national Research Center in Cairo.	2016	Cairo (Egypt)	11
WER	1st Stakeholder Consultation Workshop Tunisia	2017	Tunis, Tunisia	30

ANNEX 4 – PARTICIPATION TO MADFORWATER-RELATED EVENTS

Partner Name	Title	Date	Location	Audience
UMA	Participation in ATEM-iii 2018 Conference on "Microbial Ecology" with poster and oral communication	17-19 March 2018	Tunisia	200
IRSTE	Congrès Francophone de Techniques Laser	15/09/2016	Toulouse	100
WER	Water-Energy-Food Research and Innovation to address the nexus in the Mediterranean. Project presentation	15/Nov/16	Marrakesh	50
IRSTE	Salon International de l'Agriculture	27/02/2017	Paris	40
UTM	H2020 infoday. Researchers from UTM participated to this event and introduced the Tunisian contribution to MADFOWATER Project	16/03/2017	Tunis-Tunisia	20
UNIBO	Industry Water: From Single Use to Integrated Management	20/Apr/17	Bruxelles	45
FHNW	TREATMENT OF TEXTILE WASTEWATER BY COMBINATION OF CHEMICAL AND BIOCATALYTIC METHODS	28/06/2017	Prague	720
FHNW	PHOTO- AND BIOCATALYTIC TREATMENT OF SELECTED FUNGICIDES IN WASTEWATER SAMPLES	07/09/2017	Bologna	720
PNO	ICEEM	09/09/2017	Bologna (IT)	100
IRSTE	JT Eau & Economie Circulaire	15/09/2017	Aix en Provence	90
IRSTE	Conference with ISBST Tunisia. During the event, the project MADFORWATER and its results were presented to researchers not involved in the MADFORWATER project, thus contributing to the dissemination of project results	04/10/2017	Tunis	60
UPM	High level event 'Harnessing Research and Innovation for FOOD 2030' that served to disseminate successful European Research and Innovation (R&I) initiatives and contribute to the ongoing science-policy dialogue in the area of Food Nutrition and Security. M4W Project was briefly introduced to some participants during the climate session and the networking session.	16/10/2017	Brussels, Belgium	440
IRSTE	Club "Gestion de l'eau en agriculture"	19/10/2017	Bordeaux	22
PNO	ECOMONDO, special session on WATER "'Stakeholders mapping, cost-benefit analysis and business models concerning water technologies and water reuse"	08/11/2017	Rimini (IT)	85
UPM	Open Dialogue/Round Table on 'The environmemtal challenge in Sustainable Development Goals, organized by the University of Salamanca (Spain)'. Informal presentation of the project	19/12/2017	Salamanca (Spain)	300
UPM	International Seminar 'Gerir a Carência de Água: Uma Oportunidade? (Water scarcity: Is it an opportunity?)' Presentation of the M4W project	18/04/2018	Beja (Portugal)	50
FHNW	Combined processes for effective removal of fungicides from wastewater	25/06/2018	Crete	720

IAMB	7th European Bioremediation Conference & 11th International Society for Environmental Biotechnology Conference, Title:"Development Of A Compartment Model To Estimate The Effect Of Treated Water Reuse On The Soil And Crop. Roula Khadra, Giovanna Dragonetti, Redouane Choukrallah, Abdellah Oubelkacem, Nicola Lamaddalena, André Daccache "	27/Jun/18	Chania, Greece	115
IAMB	International Conference “Managing Water Scarcity in River Basins: Innovation and Sustainable Development”. General presentation of the MADFORWATER project. Title: “Development and application of integrated technological and management solutions for wastewater treatment and efficient reuse in agriculture tailored to the needs of Mediterranean African Countries: the MADFORWATER project”	05/Oct/18	Agadir, Morocco	265
IRSTE	Irtsea's annual workshop on Wastewater reuse	Nov/18	Lyon	90
FHNW	Bio- and photodegradation of fungicides in agro-industrial wastewater	06/11/2018	Switzerland	720
UMA	Participation in the event "Fête de la science (Science Fair)" with a Stand	10/11/2018	Tunisia	1500
UMA	Participation in the event EU for Youth, with Stand	17/11/2018	Tunisia	1000
FAORN	Nonconventional water resources within the Regional Water Scarcity Initiative	17/Mar/19	Cairo, Egypy	600
IAMB	NENA Land and Water Days -Session N. SE7 -Advancing water security in the NENA region - opportunities and challenges for intensifying agricultural reuse of treated wastewater, Title :" Innovative irrigation technologies and irrigation scheduling models suitable for the use of treated wastewater", N.Lamaddalena	02/04/2019	Cairo	35
UNIBO	2020 Conference of the Italian Group of Researchers in Chemical Engineering (GRICU). Presentation of the UNIBO results relative to WP2. Title: “Adsorption of phenolic compounds from olive mill wastewater with resin XAD16: process optimization, life cycle assessment and cost-benefit analysis”	02/07/2019	Palermo (Italy)	50
UNIBO	Conference of the Italian Group of Researchers in Chemical Engineering (GRICU). Presentation of the UNIBO results relative to WP2. Title: “OLIVE MILL WASTEWATER VALORIZATION THROUGH POLYPHENOL ADSORPTION AND ANAEROBIC DIGESTION OF THE DEPHENOLIZED WASTE WATER”	02/07/2019	Palermo (Italy)	70
UNIBO	3rd IWA Resource REcovery Conference. General presentation of the MADFORWATER project. Title: “Development and application of integrated technological and management solutions for wastewater treatment and efficient reuse in agriculture tailored to the needs of Mediterranean African Countries: the MADFORWATER project”	10/09/2019	Venice (Italy)	103
UNIBO	3rd IWA Resource REcovery Conference. Presentation of the UNIBO results relative to WP2. Title: “Adsorption of phenolic compounds from olive mill wastewater with resin XAD16: process optimization, life cycle assessment and cost-benefit analysis”	10/09/2019	Venice (Italy)	75
FAORN	SIDA Master training on Water Accounting	Oct/19	Menia, Egypt	35
UNIBO	"Water Reuse Event" organized by Water Reuse Europe. General presentation of the MADFORWATER project. Title: “Development and application of integrated technological and management solutions for wastewater treatment and efficient reuse in agriculture tailored to the needs of Mediterranean African Countries: the MADFORWATER project”	21/10/2019	Lille (France)	45
NJU	Application of UV & fluorescence as indicators for the disinfection efficiency during ozonation treatment	15/10/2019	Hangzhou, China	6200
IAV	MADFORWATER Capacity Building Workshop	03 October 2018	Agadir, Morocco	100
IAV	MADFORWATER Capacity Building Workshop on the technologies and innovations developed by the project and to promote their adoption	03 October 2018	Agadir, Morocco	40
IAV	Managing Water Scarcity in Rivers Basins: Innovation and Sustainable Development, Poster presentation on Water resources vulnerability in the Souss Massa region	04-06 OCTOBER 2018	Agadir, Morocco	500

IAV	Managing Water Scarcity in Rivers Basins: Innovation and Sustainable Development, Oral presentation on Hydrogeological modeling of the overexploitation of Souss-Chtouka groundwater resources under water scarcity conditions	04-06 OCTOBER 2019	Agadir, Morocco	500
IAV	Managing Water Scarcity in Rivers Basins: Innovation and Sustainable Development, Oral presentation on Characterization of scale deposits formed from reclaimed wastewater used for irrigation and study of clogging control using continuous aeration	04-06 OCTOBER 2020	Agadir, Morocco	500
IAV	Managing Water Scarcity in Rivers Basins: Innovation and Sustainable Development, Poster presentation on Efficiency of six scale inhibitors on scale precipitation from hard water used for irrigation	04-06 OCTOBER 2021	Agadir, Morocco	500
IAV	the 2nd International Water Conference on Water Resources in Arid Areas (WRAA2020), Poster presentation on Effect of treated wastewater on the growth and yield of two sweet corn varieties: impact of doses and systems of irrigation	09-11 November 2020	Muscat, Oman	75
UMIL	Unlocking the microbiota diversity associated to argan root system and litter and its potential benefits for agriculture	11-12 November 2020	VIRTUAL MICROBIAL ECOLOGY SUMMIT	85
UMIL	Microbial assisted phytodepuration: the environmental benefits and the associated risk for antibiotic resistance spread	11-12 November 2020	VIRTUAL MICROBIAL ECOLOGY SUMMIT	85
IAV	Climate Chance Summit 2017 - The progress of Climate Action by Non-State Actors	11-13 September 2017	Agadir, Morocco	5000
UMA	International Congress of Environmental Science & Technologies 2017 "Energy Biotechnolgy Process Engineering Water and Waste Water Treatment	13 - 15 January 2017	Hammamet-Tunisia	100
UNIBO	GRICU - The 2020 horizons of chemical engineering. Presentation of UNIBO results relative to WP2. Title: "RECOVERY OF PHENOLIC COMPOUNDS FROM OLIVE MILL WASTEWATER THROUGH AN ADSORPTION/DESORPTION PROCESS"	13 September 2016	Anacapri (Italy)	260
UMA	Participation with Madforwater research activities in the National Days of Research Valorization with research and socio-economic partners	13-14 December, 2017	Tunisia	55
UPM	2nd FOOD 2030 High Level Event "Research and Innovation for Food and Nutrition Security: Transforming our food systems". M4W project was briefly introduced to some participants	14-15/06/2018	Plovdiv (Bulgaria)	440
UMIL	Plant growth promoting bacteria in phytodepuration systems: a promising tool to minimize water footprint in agriculture	1-5 oct 2018	Novi Sad (Serbia), "International phytotechnology conference"	100
TUC	Conference presentation in 15th International Phytotechnology Conference (PLANNED AND CONFIRMED ATTENDANCE) Title: "Removal efficiency of a halophyte-based constructed wetland mesocosm for heavy metal polluted wastewater treatment"	1-5 October 2018	Novi Sad, Serbia	250
IRSTE	I12th IWA International Conference on Water Reclamation and Reuse	16-20 June 2019	Berlin	70
UNIBO	Ecomondo 2020 Fair & Congress. General presentation of the MADFORWATER project. Title: "Technological and management solutions to promote treated wastewater resue in North Africa".	2 November 2020	Rimini (Italy)	90
IRSTE	Journées Techniques de l'Eau et des Déchets	20-21/05/2019	Toulouse	65
UPM	Kick-off meeting of the Action Cost 'Drylands Facing Change: Interdisciplinary research on Climate Change, Food Insecurity and Political Instability'. Informal presentation of the project during the kick-off meeting	20-21/11/2017	Brussels, Belgium	80
UMIL	XXII Workshop on the Developments in the Italian PhD Research on Food Science Technology and Biotechnology. Poster entitled "Bacterial mediated plant growth promotion: a strategy to reduce water footprint in agriculture"	20-22 Sept 2017	Università Libera di Bolzano, Italy	250

UMA	UNESCO Arab Regional Training Workshop on Emerging Pollutants in Water Resources	20-22/11/2018	Jordan	35
UPM	Scientific-Technical Conference CeiA3 and VI conference of the Spanish Legume Association "Legumes in agriculture and food". The MADFORWATER project was briefly introduced as part of the research carried out by UPM team.	22-23/10/2018	Cordoba (Spain)	60
WER	Water-Energy-Food Research and Innovation to address the nexus in the Mediterranean. Project presentation	22-24 03 2017	Johannesburg	400
WER	Wastewater Reuse for Irrigation – unconventional or un-welcome resource? Local perceptions on barriers and drivers for reuse in Egypt, Morcco and Tunisia	22-26 10 2017	Nantes, France	400
UPM	THESys Summer School 2016. IRI-THESYS (Integrative Research Institute on Transformations of Human-Environment Systems). Humboldt University, Berlin (DE). September 26-30, 2016.)	23-30/09/2016	Berlin, DE	40
IAV	Development and application of integrated technological and management solutions for wastewater treatment and efficient reuse in agriculture tailored to the needs of Mediterranean African Countries: the MADFORWATER project	24 OCTOBER 2019	Cairo, Egypt	600
UPM	International Workshop LINCGlobal-CCG on Global Change. The MADFORWATER Project was introduced in the context of the following communication: Varela-Ortega C. Y Esteve, P. 'Water management and climate change impacts in agriculture in Mediterranean basins'.	24-26 May 2017	Madrid, Spain	25
UMIL	4th International Conference on Microbial Diversity 2017. oral presentation and extended abstract published in conference proceedings: "Plant growth promoting bacteria: a sustainable tool to minimize water footprint in agriculture in arid and semi-arid zones"	24-26 Oct 2017	University of Bari, Italy	100
TUC	Conference presentation in 14th International Phytotechnologies Conference. Title "Evaluation of a pilot scale constructed wetland for municipal wastewater treatment, with empasis to bisphenol-A and pathogens removal"	25 - 29 September 2017	Montréal, Canada	300
TUC	Conference presentation in 14th International Phytotechnologies Conference. Title "Cd, Ni and Zn removal efficiency of a pilot scale constructed wetland for municipal wastewater treatment"	25 - 29 September 2017	Montréal, Canada	300
TUC	Conference presentation in 7th European Bioremediation Conference & 11th ISEB Conference (PLANNED AND CONFIRMED ATTENDANCE) Title: "Municipal wastewater tertiary treatment for Cd, Ni and Zn removal by a halophyte-based constructed wetland mesocosm"	25- 28 June 2018	Chania, Greece	260
TUC	Conference presentation in the 7th European Bioremediation Conference & 11th ISEB Conference (PLANNED AND CONFIRMED) Title: TREATMENT OF SIMULATED TEXTILE WASTEWATER BY CHEMICAL AND BIOLOGICAL DEGRADATION IN A BATCH MOVING BED BIOFILM REACTOR (MBBR)	25- 28 June 2018	Chania, Greece	260
UMIL	PLANT GROWTH PROMOTING BACTERIA: A PROMISING TOOL IN PHYTODEPURATION OR A RISK FOR ANTIBIOTIC RESISTANCE SPREAD?	25-27 September 2019	5th International Conference on Microbial Diversity	250
IAV	7th European Bioremediation Conference (EBC-VII) and 11th International Society for Environmental Biotechnology conference (ISEB 2018). Oral presetation on : EFFECT OF IRRIGATION WITH RECLAIMED WASTEWATER UNDER TWO SYSTEMS AND REGIME DOSES ON SWEET CORN	25-28 June 2018	Chania, Greece	80
IAV	7th European Bioremediation Conference (EBC-VII) and 11th International Society for Environmental Biotechnology conference (ISEB 2018). Oral presentation on : EFFECT OF AERATION ON RECLAIMED WASTEWATER QUALITY IMPROVEMENT AND CLOGGING PREVENTION	25-28 June 2018	Chania, Greece	80
UMIL	7th European Bioremediation Conference (EBC-VII) and the 11th International Society for Environmental Biotechnology conference (ISEB 2018), Chania Greece	25-28 June 2018	Chania, Greece	250
UMIL	7th European Bioremediation Conference (EBC-VII) and the 11th International Society for Environmental Biotechnology conference (ISEB 2018), Chania Greece	25-28 June 2018	Chania, Greece	250
UPM	7th European Bioremediation Conference (EBC-VII) and the 11th International Society for Environmental Biotechnology conference (ISEB 2018). Oral presentation Blanco-Gutiérrez, I., Suárez-Varela, M., Varela-Ortega, C., and Esteve, P. 'The Role of Water Management in Food Security and Socioeconomic Development. Evidence from the MENA region.'	25-28/06/2018	Chania, Greece	>300

UPM	2016 Conference of the ISEE: 'Transforming the Economy: Sustaining Food, Water, Energy and Justice' (The MADFORWATER Project was briefly introduced in the context of the following communication: Varela-Ortega C., Esteve P., Blanco-Gutiérrez I. Long Term Perspectives on Water Use, Climate Change and Human Development in the Mediterranean. Presented at the 2016 Conference of the International Society for Ecological Economics (ISEE) 'Transforming the Economy: Sustaining Food, Water, Energy and Justice'.)	26-29/06/2016	Washington DC, USA	>100
UNIBO	7th European Bioremediation Conference & 11th International Society for Environmental Biotechnology Conference, Presentation of UNIBO results relative to WP2. Title: “Olive mill wastewater valorization through polyphenol adsorption and subsequent anaerobic digestion”	27 June 2018	Chania, Greece	115
UNIBO	7th European Bioremediation Conference & 11th International Society for Environmental Biotechnology Conference, Presentation of UNIBO results relative to WP2. Title: “Facultative canalized lagoons: a preliminary study in laboratory bioreactors”	27 June 2018	Chania, Greece	80
UPM	1st Ibero-American Conference on Sustainable Development Goals. Presentation of the M4W project	27-29/06/2018	Salamanca (Spain)	650
UNIBO	7th European Bioremediation Conference & 11th International Society for Environmental Biotechnology Conference, General presentation of the MADFORWATER project. Title: “Development and application of integrated technological and management solutions for wastewater treatment and efficient reuse in agriculture tailored to the needs of Mediterranean African Countries: the MADFORWATER project”	28 June 2018	Chania, Greece	135
IAV	2nd Atlas Georesources International Congress: Applied Geosciences for Groundwater. Oral presentation on study of water resources vulnerability in Souss-Massa region at circle level	28-30 March 2019	Hammamet , Tunisia	200
TUC	Conference presentation in 12th Chemical Engineering Conference 2019. Title: "TREATMENT OF SIMULATED TEXTILE WASTEWATER BY CHEMICAL AND BIOLOGICAL DAGRADATION IN A BATCH MOVING BED BIOFILM REACTOR (MBBR)"	29-31 May 2019	Athens, Greece	110
UNIBO	10th World Congress of Chemical engineering. Presentation of UNIBO results relative to WP2. Title: "OLIVE MILL WASTEWATER VALORIZATION THROUGH POLYPHENOL ADSORPTION AND SUBSEQUENT ANAEROBIC DIGESTION"	3 October 2017	Barcelona (Spain)	280
IAV	FAO Land & Water days. Oral presentation on Model-based strategies to optimize cropping patterns and treated wastewater management in agriculture	31 March- 4 April 2019	Cairo Egypt	70
IRSTE	Managing Water Scarcity in River Basins: Innovation and Sustainable Development	4-6 October 2018,	Agadir, Morocco	55
UPM	1st Ibero-American Congress on Rural Studies. Informal presentation of the M4W project	4-6/07/2018	Segovia (Spain)	200
UMIL	Plant growth promoting bacteria: a sustainable tool to minimize water footprint in agriculture in arid and semi-arid zones conference: "Microbe-assisted crop production - opportunities, challenges and needs" organised by AIT Austrian Institute of Technology and by the Austrian Association of Molecular Life Sciences and Biotechnology (ÖGMBT),	4-7 Dec 2017	Vienna;	320
UNIBO	International Conference “Managing Water Scarcity in River Basins: Innovation and Sustainable Development”. General presentation of the MADFORWATER project. Title: “Development and application of integrated technological and management solutions for wastewater treatment and efficient reuse in agriculture tailored to the needs of Mediterranean African Countries: the MADFORWATER project”	5 October 2018	Agadir, Morocco	265
IAV	EWRA 2017: 10th World Congress on Water Resources and Environment. Climate change and water valuation in Souss-Massa region: Which management and adaptive measures. Oral presentation	5 to 9 July 2017	Athene, Greece	600
IRSTE	Treated Wastewater reuse regulation, a missed opportunity?	5-6/11/2018	Bologna	40
IAV	Groundwater and global change in the western Mediterranean. Vulnerability of groundwater in Souss Massa region and alternative solutions for agriculture development. Oral presentation	5th to 10th November 2017	GRANADA SPAIN	300

TUC	Conference presentation in 9th International Conference on Environmental Engineering and Management (PLANNED AND CONFIRMED ATTENDANCE) Title" Evaluation of a constructed wetland for wastewater treatment, with emphasis on the removal of emerging organic contaminants and antibiotic resistant bacteria"	6 – 9 September 2017	Bologna, Italy	500
UMIL	ICEEM09, Circular Economy and Environmental Sustainability. oral presentation "Plant growth promoting bacteria: a sustainable tool to boost water footprint in agriculture"	6-9 Sept 2017	Alma Mater Studiorum Università di Bologna, Italy	100
TUC	Conference presentation in 7th Mikrobiokosmos Conference 2017. Title "Development of microbial consortia for degradation of textile dyes."	7 - 9 April 2017	Athens, Greece	200
UNIBO	Ecomondo 2018 Fair & Congress. General presentation of the MADFORWATER project.	7 November 2018	Rimini (Italy)	90
UNIBO	Ecomondo 2018 Fair & Congress. Presentation of UNIBO results relative to WP2. Title: "Nutrient and E.coli removal in the aerobic layer of wastewater finishing ponds".	7 November 2018	Rimini (Italy)	90
UNIBO	9th International Conference on Environmental Engineering and Management. Presentation of UNIBO results relative to WP2. Title: "Carboxylates and biogas production from olive mill wastewater: kinetic studies"	7 September 2017	Bologna (Italy)	250
UNIBO	Water Global Expo - Ecomondo 2016 Fair & congress. General presentation on the MADFORWATER project	8 November 2016	Rimini (Italy)	230
UNIBO	Water Global Expo - Ecomondo 2017 Fair & congress. General presentation on the MADFORWATER project	8 November 2017	Rimini (Italy)	85
UNIBO	9th International Conference on Environmental Engineering and Management. Presentation of UNIBO results relative to WP2. Title: "Olive mill wastewater valorisation through polyphenols adsorption and subsequent anaerobic digestion"	8 September 2017	Bologna (Italy)	300
UNIBO	9th International Conference on Environmental Engineering and Management. Presentation of UNIBO results relative to WP2. Title: "Functioning and control of A.S. WWTPS under inflow variations due to a combined drainage system"	8 September 2017	Bologna (Italy)	300
UPM	Informal presentation in the 1st meeting of the Action Cost 'Drylands Facing Change: Interdisciplinary research on Climate Change, Food Insecurity and Political Instability'	8-9/03/2018	Wageningen (The Netherlands)	80
UTM	The 7th European Bioremediation Conference & 11th ISEB Conference. Presentation of UTM results relative to WP2. Title: "Selection and application of a stable bacterial consortium isolated from sequencing batch reactor for treatment of phenolics-rich wastewater."	June 25-28, 2018	Chania, GREECE	75
UTM	The third international Conference ATEM iii on Microbial Ecology in association with The 19th International meeting on Frankia and Actinorhizal plants. Presentation of UTM results relative to WP2. Title: "Removal of color and organic pollutants from textile wastewater using quaternized magnetic microspheres adsorption integrated with biological treatment. "	March 17 - 19, 2018	Hammamet-Tunisia	65
NJU	Applying UV absorbance and fluorescence indices to estimate deactivation of bacteria and formation of bromate during ozonation of water and wastewater effluent	May 14-18,2018	Beijing, China	350
NJU	Apply UV absorbance and Fluorescence Indices for Assessing the Oxidation and Disinfection Efficiency of Ozonation Process	May 27-31,2018	Nanjing, China	800
NJU	Apply UV Absorbance and Fluorescence Indices for Assessing the Oxidation and Disinfection Efficiency of Ozonation Process	May 6-8, 2018	Atlanta, GA	1000
UTM	METRIS MICROBIAL ELECTRON TRANSPORT RESEARCH AND INNOVATION FOR SOCIAL WELFARE. Workshop: Waste water treatment for re-use: from Science to Social Welfare. Title: WASTEWATER TREATMENT FOR REUSE: TUNISIAN EXPERIENCE	November 26th, 2018	Cairo, Egypt	55
UTM	International Conference on Managing Water Scarcity in River Basins: Innovation and Sustainable Development. Presentation of UTM results relative to WP2. Title: "Zero-Valent iron pretreatment for enhancing the biodegradability of textile wastewater containing Azo Dyes. "	October 4-6, 2018	Agadir, MOROCCO	75

UTM	“Researchers' Night "Living Lab el Jem and Innovative Labs in Action", LiLa JemILA, organized within the framework of the "Association of Tunisia to the European Program of Research and Innovation Horizon 2020". General presentation of the research activities carried out in the MADFORWATER project and participation with a workshop on textile wastewater treatment approaches.	September 28, 2018	Tunis, Tunisia	60

ANNEX 5 - OTHER DISSEMINATION ACTIVITIES

Partner Name	Type of activity	Title	Date
FAORN	Other	Email dissemination of project newsletters to FAO country offices in the three target countries.	Oct/20
IAV	Other	Effect of treated wastewater on the growth and yield of two sweet corn varieties: impact of doses and systems of irrigation	Defended on the 10th of October
IRSTE	news/ publication	Réutiliser des Eaux Usées Traitées en Irrigation, Quels bénéfices pour quelle durabilité ?	Nov/18
NWRC	news/ publication	Description of the project in a national TV program	13/07/2016
NWRC	news/ publication	Project description in NWRC Web Site	01/08/2016
NWRC	news/ publication	Press release in Elahram news paper	09/07/2016
NWRC	news/ publication	NWRC quarterly newsletter	30/07/2016
NWRC	Other	Progress summary report	Every 3 months
PNO	news/ publication	Second Project meeting	13/012017
PNO	news/ publication	MADFORWATER: Second Project meeting – Agadir, Morocco	11/01/2017
PNO	news/ publication	First MADFORWATER project newsletter released!	08/06/2017
PNO	news/ publication	Ciaotech/PNO al 3° meeting del #MADFORWATER a Montpellier a luglio. Il prossimo sarà a dicembre 2017 a Bari. #water http://bit.ly/2y0ZWp4	14/09/2017
PNO	news/ publication	#climatechange + population growth are expected to exacerbate water crisis in Africa. Read the story http://bit.ly/2qBlwhn #madforwater	18/05/2017
PNO	news/ publication	Our project #MADFORWATER was made possible thanks to #H2020 #InvestEUresearch! http://www.madforwater.eu	17/10/2017
PNO	news/ publication	Our project #MADFORWATER was made possible thanks to #H2020 #InvestEUresearch! http://www.madforwater.eu	17/10/1017
PNO	news/ publication	@PNO_IT attended the 3rd MADFORWATER meeting in Montpellier in July. Read about this important project here: http://bit.ly/2x3gS0G #water	14/09/2017
PNO	news/ publication	MADFORWATER: integrated solutions 4 wasteWATER treatment & reuse in agriculture for Med. African Countries, check at	05/10/2016
PNO	news/ publication	Enjoy reading the MADFORWATER project newsletter focusing on the first year results! #waterefficiency #agriculture	08/06/2017
PNO	news/ publication	Enjoy reading the MADFORWATER project newsletter focusing on the first year results! #waterefficiency #agriculture https://t.co/6LLrDIFxZk	08/06/2017
PNO	news/ publication	@PNO_IT attended the 3rd MADFORWATER meeting in Montpellier in July. Read about this important project here: https://t.co/whX7dKA0ZI #water https://t.co/3wan3N363c	14/09/2017
PNO	news/ publication	Our project #MADFORWATER was made possible thanks to #H2020 #InvestEUresearch! https://t.co/ae7I4G5HXu https://t.co/q6TXSErfmA	17/10/2017

PNO	news/ publication	MADFORWATER gaat waterschaarste in Noord-Afrika aanpakken - en PNO helpt mee. Lees meer over dit bijzondere project http://ow.ly/maic306RdBE	06/12/2016
PNO	news/ publication	MADFORWATER first newsletter now available!	07/06/2017
PNO	news/ publication	MADFORWATER: Second Project meeting – Agadir, Morocco	11/01/2017
PNO	news/ publication	Have a look at the MADFORWATER project video presentation!	13/12/2016
PNO	news/ publication	MADFORWATER: Second Project meeting – Agadir, Morocco	11/01/2017
PNO	news/ publication	CiaoTech/PNO attended the third MADFORWATER project meeting in Montpellier, 3-5 July 2017	25/08/2017
PNO	news / publication	MADFORWATER: innovatief project moet waterschaarste Noord-Afrika aanpakken	30/11/2016
PNO	news/ publication	Horizon 2020: Projekt MADFORWATER	11/12/2016
PNO	news/ publication	Creating efficient and sustainable water supply and sanitation	
PNO	news/ publication	Guarda il video di presentazione del progetto MADFORWATER	14/12/2016
PNO	news/ publication	MADFORWATER: secondo meeting di progetto – Agadir, Morocco	13/01/2017
PNO	news/ publication	Ciaotech/PNO al terzo meeting del progetto MADFORWATER tenutosi a Montpellier (3-5 luglio 2017)	25/08/2017
PNO	news / publication	Enjoy reading our first project newsletter	08/06/2017
PNO	news / publication	MADFORWATER Project	05/10/2016
PNO	news / publication	Check out the page News and events to find out what's new on the MADFORWATER project website!	28/10/2016
PNO	news / publication	Second Project meeting	11/01/2017
PNO	news / publication	The 3rd meeting of the MADFORWATER project took place in Montpellier – communication	01/08/2017
PNO	news / publication	Message on newsletter	08/06/2017
PNO	news / publication	Second Project meeting - communication	11/01/2017
PNO	news/ publication	Project video presentation	14/12/2016
PNO	news / publication	MADFORWATER Project Kick-off meeting	29/08/2016
PNO	news / publication	MADFORWATER showcased at COP 22	21/11/2016
PNO	news / publication	Second Project meeting – Agadir, Morocco	13/01/2017
PNO	news / publication	MADFORWATER project: 3rd project meeting in Montpellier– France, 3 – 5 July 2017	01/08/2017
PNO	news / publication	MADFORWATER project: 3rd project meeting in Montpellier– France, 3 – 5 July 2017	01/08/2017
PNO	news/ publication	First project Newsletter in English	
PNO	news/ publication	First project Newsletter in French	
PNO	news/ publication	First project Newsletter in Arabic	
PNO	news/ publication	Guarda il video di presentazione del progetto MADFORWATER	13/12/2016
PNO	news/ publication	Guarda il video di presentazione del progetto MADFORWATER	13/12/2016
PNO	news/ publication	MADFORWATER: secondo meeting di progetto – Agadir, Morocco	13/01/2017
PNO	news/ publication	Ciaotech/PNO al terzo meeting del progetto MADFORWATER tenutosi a Montpellier (3-5 luglio 2017)	25/08/2017

PNO	news / publication	ECOMONDO Conference – Global Water Expo session, with a speech on “Stakeholders and cost-benefit analyses as valid tools for decision-making in water innovation”, within the session “Desalination and alternative water resources, water reuse and multiple use to reduce the water footprint at city or basin scale”	21/11/2017
PNO	news / publication	MADFORWATER at CIHEAM Bari for the 4th project meeting. Interested in receiving news about the project? Subscribe for our newsletter at https://lnkd.in/gHzBPCF!	15/12/2017
PNO	news / publication	MADFORWATER project: 4th project meeting in Bari– Italy, 13th - 14th of December 2017	03/01/2018
PNO	news/ publication	PNO at CIHEAM Bari for the 4th MADFORWATER project meeting. Interested in receiving news about the project? Subscribe for our newsletter at http://bit.ly/MADFORWATER!	27/12/2017
PNO	news/ publication	PNO at @CIHEAM Bari for the 4th #MADFORWATER project meeting. Interested in receiving news about the project? Subscribe for our newsletter at http://bit.ly/MADFORWATER #H2020 #InvestEUresearch	27/12/2017
PNO	news/ publication	PNO at @CIHEAM Bari for the 4th #MADFORWATER project meeting. Interested in receiving news about the project? Subscribe for our newsletter at http://bit.ly/MADFORWATER #H2020 #InvestEUresearch	27/12/2017
PNO	news/ publication	MADFORWATER: 4th project meeting in Bari, Italy	10/01/2018
PNO	news/ publication	MADFORWATER: 4th project meeting in Bari, Italy	04/01/2018
PNO	news/ publication	MADFORWATER: quarto meeting di progetto a Bari	04/01/2018
PNO	news/ publication	Save the date: International Conference “Managing Water Scarcity in River Basins: Innovation and Sustainable Development”, Agadir (Morocco), October 4-6, 2018.	09/05/2018
PNO	news/ publication	MADFORWATER stakeholder meeting in Tunisia	16/05/2018
PNO	news/ publication	New Article on MADFORWATER!	31/05/2018
PNO	news/ publication	MADFORWATER stakeholder meeting in Tunisia	16/05/2018
PNO	news/ publication	New Article on MADFORWATER!	31/05/2018
PNO	news/ publication	NEWSLETTER #2 released in French & English!	26/06/2018
PNO	news/ publication	Staytuned about #Water4Africa	27/06/2018
PNO	news/ publication	NEWSLETTER #2 released in French & English!	26/06/2018
PNO	news/ publication	#MADFORWATER 2nd newsletter is out	20/06/2018
PNO	news/ publication	#MADFORWATER 2nd newsletter is out!	20/06/2018
PNO	news/ publication	MADFORWATER second newsletter is out! I	20/06/2018
PNO	news/ publication	International Conference “Managing Water Scarcity in River Basins: Innovation and Sustainable Development”, Agadir (Morocco), October 4-6, 2018	09/05/2018
PNO	news/ publication	MADFORWATER stakeholder meeting in Tunisia	16/05/2018
PNO	news/ publication	New Article on MADFORWATER!	31/05/2018
PNO	news/ publication	Second project newsletter is out!	31/05/2018
PNO	news/ publication	Deuxième bulletin d’information publié!	01/06/2018
PNO	news/ publication	Madforwater second newsletter is out	05/06/2018

PNO	news/ publication	Pubblicata la seconda newsletter di Madforwater	05/06/2018
PNO	news/ publication	Madforwater second newsletter is out	05/06/2018
PNO	news/ publication	Pubblicata la seconda newsletter di Madforwater	05/06/2018
SKE	news/ publication	Post on the website SKE A reference to the contribution to the project with the link of project's website (http://www.madforwater.eu/)	Nov/16
UMA	news/ publication	The 9th INTERNATIONAL CONFERENCE ON ENVIRONMENTAL ENGINEERING AND MANAGEMENT	6-9 September 2017
UMA	news/ publication	M4w video presentation	07/12/2016
UMA	news/publication	Group photo of the participants in the 3rd project meeting	13/07/2017
UMA	news/publication	Dissemination of the project NL: 1st M4W newsletter	31/05/2017
UMA	news/publication	Presentation of the MADFORWATER project in the Tunisian H2020 Portail	19/02/2018
UMA	news/publication	Visit of M. Laurent from Rolland Company to UMA for irrigation sprinklers installation	26/06/2019
UMA	news/publication	Short videos: Backstage WP3 field activities	20/06/2019 - 20 and 27/07/2019
UMA	news/publication	7th M4W meeting	25/09/2019
UMA	news/publication	article: DevelopMent AnD application of integrated technological and management solutions FOR wasteWATER treatment and efficient reuse in agriculture tailored to the needs of Mediterranean African Countries	
UMA	news/publication	Dissemination video of the UMA Constructed Wetland	09/10/2020
UMA/UTM	news/publication	Dissemination of the project NL: 1st M4W newsletter	16/05/2017
UMIL	news/ publication	Participation to the RAI3 television program “Geo”. Microorganisms promoting the growth of plants in arid environments	04-03-2017; 14-04-2017
UNIBO	news/ publication	Article in newsletter. MADFORWATER Horizon 2020 research project	November 2016
UPM	Other	Informative leaflet with a short description of the M4W project, goals and expected impacts, produced and distributed by UPM during the THESys Summer School 2016: Transformative human-environment research & participatory methods: from co-production to co-producing.	26/09/2016
UPM	Other	Informative and detailed presentation of the M4W project within a series of research activities developed by the UPM team in Biodiversity International (a CGIAR research centre) and CATIE (Centro Agronómico Tropical de Investigación y Enseñanza)	15/09/2017-15/12/2017
UPM	Other	Master in food, agriculture and natural resource economics, Universidad Politécnica de Madrid	04/09/2017-30/11/2017
UTM	news/ publication	MADFORWATER project announcement	

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