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## Final summary of clustering, dissemination and communication activities and plans beyond project

Deliverable D5.9, WP5

|                                   |                                                                                            |
|-----------------------------------|--------------------------------------------------------------------------------------------|
| <b>Project Number</b>             | <b>101081980</b>                                                                           |
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| <b>Report Author</b>              | Margarete Remmert-Rieper (TUTECH)                                                          |
| <b>Reviewed by</b>                | Mathias Ernst (DVGW-TUHH)                                                                  |
| <b>Approved by</b>                | Anissa Grieb (DVGW-TUHH)                                                                   |



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**Changes in D5.9 compared to D5.7:**  
**all chapters updated describing and reflecting the activities and progress in the final year**

| Chapter                             | Nature of change                                                                                                          |
|-------------------------------------|---------------------------------------------------------------------------------------------------------------------------|
| Abstract                            | Updated reflecting the activities since March 2025.                                                                       |
| Chapter 1, Introduction             | Updated reflecting the progress since March 2025.                                                                         |
| Chapter 2, Target groups            | Shortened and slightly updated reflecting the progress since March 2025.                                                  |
| Chapter 3, Communication activities | Updated, describing communication activities in the final year.                                                           |
| Chapter 4, Dissemination ...        | Updated, describing dissemination and clustering activities in the final year.                                            |
| Chapter 5                           | Previous chapters 5 and 6 merged and updated to “Analysis of communication and dissemination and plan beyond the project” |
| Chapter 6                           | Conclusions updated regarding the finalisation of the project                                                             |



| Part. No.       | Participant organisation name                                                                                 | Short name |
|-----------------|---------------------------------------------------------------------------------------------------------------|------------|
| 1 (Coordinator) | German Association for Gas and Water (DVGW), local research branch at Hamburg University of Technology (TUHH) | DVGW-TUHH  |
| 2               | Politecnico di Milano                                                                                         | POLIMI     |
| 3               | Berlin Centre of Competence for Water                                                                         | KWB        |
| 4               | BioDetection Systems B.V.                                                                                     | BDS        |
| 5               | Centre Tecnològic de Catalunya (EURECAT)                                                                      | EUT        |
| 6               | German Environment Agency                                                                                     | UBA        |
| 7               | Helmholtz-Centre for Environmental Research                                                                   | UFZ        |
| 8               | Consorci Concessionari d'Aigües per als Ajuntaments i Industries de Tarragona                                 | CAT        |
| 9               | Tutech Innovation GmbH                                                                                        | TUTECH     |
| 10              | Metropolitana Milanese SPA                                                                                    | MM         |
| 11              | Multisensor systems Ltd.                                                                                      | MSS        |
| 12              | The National University of Water and Environmental Engineering                                                | NUWEE      |



## Abstract

This deliverable summarises SafeCREW's communication, dissemination and clustering activities until March 2026. The clustering activities have been joint activities of seven founding and 12 new EU funded projects, which form the ZeroPollution4Water Cluster. These projects are dedicated to safeguarding zero pollution across the entire water cycle in the face of climate change impacts. The deliverable builds on and complements the three previous deliverables, D5.1 (Initial Plan for Exploitation, Dissemination and Communication (PEDR)), D5.6 (Summary of communication and clustering activities in year 1) and D5.7 (Midterm review of communication and dissemination activities and plans). It is linked to all tasks in WP5 (Communication, dissemination and exploitation).

Communication and dissemination in the project as well as clustering activities serve to ensure a broad uptake of the solutions and technologies delivered. To achieve this, a thorough stakeholder mapping has been conducted in the PEDR. It builds on the partners' networks, which provide relevant multipliers, reaching water professionals in water utilities, water industry, regulatory bodies, the scientific community, the interested public and policy makers. Since its inauguration in 2023, the ZeroPollution4Water Cluster proved to serve as a valuable additional multiplier, enhancing the outreach to policy makers as well as geographical coverage. This became clearly visible in eight large cluster events and the publication of two policy briefs in the last twelve months. The relevant stakeholders are addressed by multi-channel, wide-scale online and on-site campaigns to create a critical mass of information exchange, promote collaboration and knowledge transfer and collect useful feedback. Based on a schedule of upcoming events and key activities, a series of communication, dissemination and clustering actions have taken place. The third period focused on maintaining the communication channels, to aggregate and consolidate the results, disseminate them to water utilities, authorities and to train water professionals on new technical methods to characterise and predict DBPs and their precursors and to improve their water treatment processes. Dissemination activities were designed to stimulate uptake and prepare the exploitation of the SafeCREW results. Engagement with stakeholders from water utilities, authorities, water related industry and their associations was continued in four working group meetings, seven consultancy meetings and five dedicated events like workshops with regulators, policy makers and authorities since April 2025.

The final communication and clustering activities helped translate SafeCREW results into practice, supporting climate-resilient management of safe disinfected and non-disinfected water systems. Collaboration within the ZeroPollution4Water Cluster enhanced outreach to European and international audiences and boosted impact on policy and technology development. Beyond the project, SafeCREW partners will continue to develop and valorise innovations through research cooperation, implementation projects, or commercialisation, with dissemination maintained via networking, conferences, fairs, and publications.



## Table of contents

|                                                                                                                                                |    |
|------------------------------------------------------------------------------------------------------------------------------------------------|----|
| Abstract .....                                                                                                                                 | 4  |
| Table of contents.....                                                                                                                         | 5  |
| Abbreviations .....                                                                                                                            | 6  |
| 1. Introduction.....                                                                                                                           | 7  |
| 2. Target groups and stakeholder mapping .....                                                                                                 | 7  |
| 2.1 Utility route - Public sector (water utilities, actors in the EU and UK, associations, professional networks and water professionals)..... | 8  |
| 2.2 Regulatory route – Authorities & policy makers on local, regional, national, international and EU level.....                               | 9  |
| 2.3 Science and regulatory route via the ZeroPollution4Water Cluster .....                                                                     | 9  |
| 2.4 Science and commercial route – Research communities, private sector and civil society .....                                                | 9  |
| 3. Communication activities until 31 March 2026 .....                                                                                          | 10 |
| 3.1 Digital communication activities .....                                                                                                     | 10 |
| 3.2 Public facing communication activities .....                                                                                               | 14 |
| 4. Dissemination and clustering activities.....                                                                                                | 15 |
| 4.1 Clustering activities in cooperation with the ZeroPollution4Water Cluster .....                                                            | 15 |
| 4.2 Dissemination towards water utilities, regulators and policy makers .....                                                                  | 21 |
| 4.3. Scientific dissemination via conferences and publications.....                                                                            | 25 |
| 4.4 SafeCREW Final Conference .....                                                                                                            | 27 |
| 4.4 SafeCREW Analytical Protocols, Guidelines and Final Public Report .....                                                                    | 28 |
| 5. Analysis of communication and dissemination and plan beyond the project .....                                                               | 29 |
| 6. Conclusion .....                                                                                                                            | 31 |
| Annex - Tables documenting the communication and dissemination activities.....                                                                 | 32 |
| <i>Table 2: KPIs for communication channels</i> .....                                                                                          | 32 |
| <i>Table 3: Public engagement</i> .....                                                                                                        | 32 |
| <i>Table 4: Contributions to scientific conferences and fairs</i> .....                                                                        | 34 |
| <i>Table 5: Key dissemination activities in the second period</i> .....                                                                        | 40 |
| <i>Table 6: List of publications</i> .....                                                                                                     | 48 |



## Abbreviations

|         |                                                                   |
|---------|-------------------------------------------------------------------|
| AI      | Artificial Intelligence                                           |
| BWB     | Berliner Wasserbetriebe                                           |
| DBP     | Disinfection by-products                                          |
| DoA     | Description of Action                                             |
| DG ENV  | Directorate-General for Environment                               |
| DG RTD  | Directorate-General for Research and Innovation                   |
| DVGW    | German Technical and Scientific Association for Gas and Water     |
| DW      | Drinking water                                                    |
| DWD     | Drinking Water Directive                                          |
| DWDN    | Drinking water distribution network                               |
| DWTP    | Drinking water treatment plant                                    |
| DWSS    | Drinking water supply system                                      |
| EC      | European Commission                                               |
| ECHA    | European Chemicals Agency                                         |
| EEA     | European Environment Agency                                       |
| ENDWARE | European network of drinking water regulators                     |
| EP      | European Parliament                                               |
| EU      | European Union                                                    |
| EUCRA-2 | Second European Climate Risk Assessment                           |
| EurEau  | European Federation of National Associations of Water Services    |
| HW      | Hamburg Wasser                                                    |
| IWA     | International Water Association                                   |
| KPI     | Key performance indicator                                         |
| MEP     | Member of the European Parliament                                 |
| NAM/EBM | Non-animal, effect-based methods                                  |
| NOM     | Natural Organic Matter                                            |
| PEDR    | Plan for Exploitation, Dissemination and Communication of Results |
| REA     | European Research Executive Agency                                |
| R&D     | Research and development                                          |
| RBF     | Riverbank filtration                                              |
| SMEs    | Small and medium-sized enterprises                                |
| STEM    | Science, Technology, Engineering and Mathematics                  |
| THM     | Trihalomethane                                                    |
| TRL     | Technology Readiness Level                                        |
| WHO     | World Health Organisation                                         |
| WHO-EU  | WHO Regional Office for Europe                                    |
| WOP     | Water Operators' Partnership                                      |
| WSP     | Water Safety Plan                                                 |
| WG      | Working group                                                     |
| WP      | Work package                                                      |
| ZP4W    | ZeroPollution4Water Cluster                                       |



## 1. Introduction

This report summarises the communication and dissemination activities of SafeCREW during the final period of the project between April 2025 and March 2026. These activities have been conducted in accordance with the Plan for Exploitation, Dissemination and Communication of Results (PEDR, D5.1). It builds on Annex 1 of the Grant Agreement, chapter 2.2 and the tasks described in Work Package 5.

SafeCREW contributes to an increased preparedness of the EU water sector for challenges arising from climate change and to the EU's leading position in science-based policy making for drinking water consumer protection. Transferable tools are provided to water utilities, national and EU regulators, researchers and enterprises. SafeCREW supports the novel EU Drinking Water Directive (EU DWD) by developing guidance for disinfected and non-disinfected drinking water supply systems. To promote the uptake and to facilitate the further exploitation of SafeCREW results, well targeted communication and dissemination activities have been conducted. According to the Plan for Exploitation, Dissemination and Communication of Results, the third period has been dedicated to maintaining the communication channels, to aggregate and consolidate the results, disseminate them to water utilities, authorities and to train water professionals on new methods to characterise and predict DBPs and their precursors and to improve water treatment processes. Dissemination activities were designed to stimulate uptake and prepare the exploitation of the SafeCREW results.

The target groups and relevant stakeholders which were identified in the beginning of the project still have the same importance and role as in the previous periods. Their needs and interests are briefly described in section 2. The communication activities to inform them about the project and the dissemination strategy are designed to meet their needs as outlined in the previous deliverable D5.7. An important building block of the communication and dissemination strategy remained the cooperation with the ZeroPollution4Water Cluster (ZP4W), which has proven very valuable to enhance the geographical outreach of each project and the support for European policy and regulation to ensure better drinking water management.

## 2. Target groups and stakeholder mapping

SafeCREW's approach to achieve broad uptake of solutions follows four different dissemination and exploitation routes (Figure 1): 1) Science route: the R&D partners are disseminating the results through journals and conferences. 2) Utility route: By co-creating and disseminating SafeCREW solutions via the two actively involved water utilities CAT and MM as well as the cooperating water utilities HW and BWB, other end-users as well as the network of DVGW at local and national levels are learning directly from practitioners. 3) Regulatory route: By having one regulatory body in the consortium (UBA), SafeCREW results (e.g. the Policy Briefs to support unavoidable transition from non-disinfected to disinfected drinking water supply systems and regarding disinfection and disinfection-by-products) were directly transferred to European regulators and policy makers and the WHO Collaborating Centre to reach the international level. 4) Commercial route: The two SMEs BDS and MSS, directly involved in the solution development, are following their roadmap to commercial exploitation. The relevant stakeholders are described below.



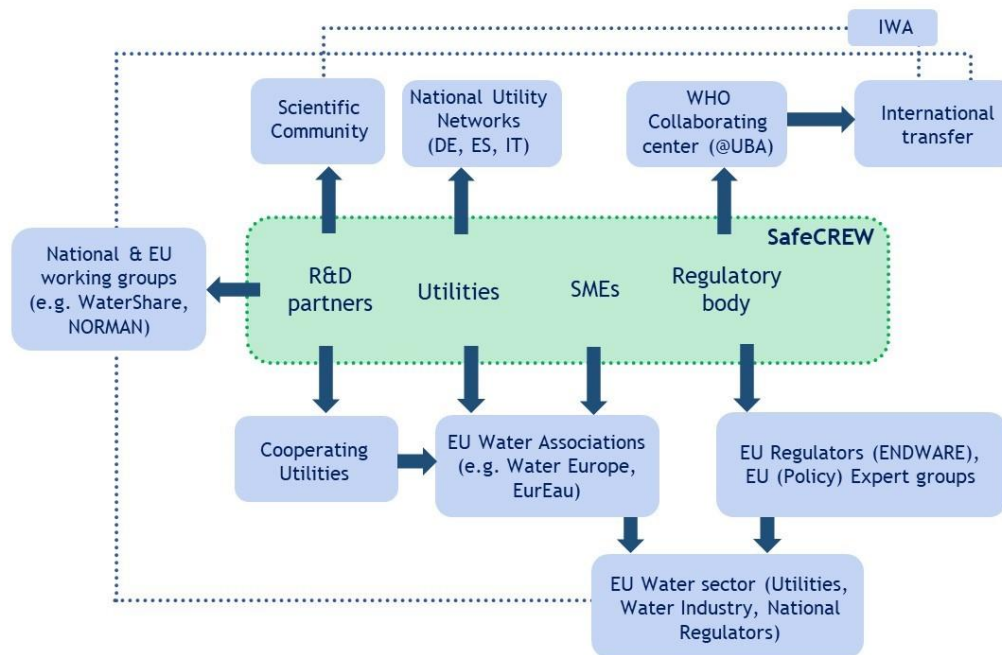


Figure 1: SafeCREW dissemination and exploitation routes (GA, p.117, Annex 1 - DoA)

## 2.1 Utility route - Public sector (water utilities, actors in the EU and UK, associations, professional networks and water professionals)

The utility route forms one of the two most important dissemination and exploitation routes. Water utilities are technically responsible for safe and secure drinking water supply for their residents. Currently, they have well-established water management tools for quality monitoring, water treatment and distribution in place, which follow existing regulation. However, climate change will very probably result in yet unknown deterioration of source water quality. The EU Drinking Water Directive (DWD) and its watch lists will develop further and ask for adaptations in risk assessment and water management. Utilities therefore need access to improved knowledge on climate change impacts, new monitoring tools and guidance on climate resilient risk-based water management procedures. Main target groups are the utilities, their management and technical staff. SafeCREW utilities CAT and MM and the technology centres EUT, KWB and DVGW-TUHH and NUWEE disseminated SafeCREW results to them via working group meetings, webinars and consultancy in a simple and practical form to facilitate the uptake and implementation of improved solutions.

Water related associations and professional networks provide a route for dissemination to this target group. Main water associations on the European level are EurEau and Water Europe. EurEau, the European Federation of National Associations of Water Services, enables dissemination to the utilities via the national member organisations and the specific committees. DVGW-TUHH as part of the German technical association of Gas and Water (DVGW) is well connected to the representatives of EurEau and coordinated the continuous exchange with EurEau. The cooperation with Water Europe played an important role in the common ZeroPollution4Water Cluster activities.

National and transnational boards such as DVGW-DIN technical Committees on disinfection/water treatment technologies and workers' councils, e.g. ver.di's Federal Specialist Group on Water Management, as representatives of water utility staff and technicians are interested in future changes



of water management and the influence on the work of the water utility staff and technicians whom they represent. SafeCREW partners have used their well-established communication routes into the national and regional water associations and the utilities in their region to present results and stimulate discussion, feedback and uptake.

## 2.2 Regulatory route – Authorities & policy makers on local, regional, national, international and EU level

Regulatory authorities and policy makers are responsible to design, issue and implement legislative and regulatory measures which ensure safe and secure drinking water supply. Like water utilities they need access to the relevant knowledge and scientific advice on safety and health risks and mitigation measures and thus form another important target group of SafeCREW. SafeCREW partner UBA is a regulatory body itself and well embedded in the national, international and European bodies for water legislation and regulation. On the international level, it hosts the WHO Collaborating Centre and is engaged in ENDWARE (European network of drinking water regulators). In the final year of the project, UBA disseminated SafeCREW policy recommendations via these channels into European water regulation and legislation.

## 2.3 Science and regulatory route via the ZeroPollution4Water Cluster

A significant number of Horizon 2020 and Horizon Europe projects address security and zero pollution of water resources and supply, among them SafeCREW and its six sister projects under CALL HORIZON-CL6-2022-ZEROPOLLUTION-01-01/-04 (Table 1). In 2023, these seven projects founded the ZP4W Cluster with the aim to pool resources, exploit synergies, and thus increase the body of knowledge as well as the impact on safe and secure water supply. The European Commission (EC), especially DG ENV, expects high impact on policy shaping and effective water management from their cooperation. The ZP4W Cluster is now well established and forms a relevant dissemination channel to reach European policy makers. In addition, it enhances the outreach of each individual project significantly (see chapter 4.1). As a member of the ICT4Water Cluster, SafeCREW uses their communication and dissemination channels regularly. Benefits from mutual exchange and enhanced outreach on modelling, soft sensors and data driven water management have become visible in the final period of the project.

Table 1: Related EU projects in the ZeroPollution4Water Cluster

| ZeroPollution4Water Cluster          |                                                                      |
|--------------------------------------|----------------------------------------------------------------------|
| HORIZON-CL6-2022-ZEROPOLLUTION-01-04 | <u>H2OforAll</u> , <u>intoDBP</u> , <u>SafeCREW</u> , <u>ToDrinQ</u> |
| HORIZON-CL6-2022-ZEROPOLLUTION-01-01 | <u>MAR2PROTECT</u> , <u>NINFA</u> , <u>UPWATER</u>                   |

## 2.4 Science and commercial route – Research communities, private sector and civil society

Research communities, private sector and civil society round off the target groups which benefit from SafeCREW results. SafeCREW is contributing to scientific progress on simulation models for disinfection by-products (DBP) and water quality prediction, which will stimulate further research and university curricula on water management solutions. The worldwide distributor network of MSS and the engagement of SafeCREW researchers in the International Water Association (IWA) and the IWA Young Water Professionals are used for the commercial and scientific dissemination route.



Citizens/residents as water consumers have been provided with information about how drinking water suppliers adapt to climate change scenarios. This supports building trust in the technical expertise of EU water utilities. The younger generation of water professionals needs role models in climate and water related research and adaption strategies and is addressed via the engagement in school events, the IWA Young Water Professionals network as well as by new courses at the National University of Water and Environmental Engineering (NUWEE) in western Ukraine. New scientific knowledge will expand their education and inspire future career paths in water related environmental engineering.

### 3. Communication activities until 31 March 2026

Based on the analysis of the four dissemination routes in the previous chapter, this chapter describes the communication activities conducted between April 2025 and 31 March 2026 (month 41) of SafeCREW. The external communication activities aim at informing the general public and all stakeholders about the project and the benefits of European funding for society, raising the awareness about climate change related impacts on water quality and EU funded research and innovation to tackle these challenges. Communication to utilities, policy makers and water professionals supports dissemination activities and stimulates valorisation and uptake of results. To create a critical mass of information exchange, promote collaboration and knowledge transfer and collect useful feedback, multi-channel, wide-scale online and on-site campaigns have been followed through in the third period of the project.

Communication tools comprise mainly visual and digital communication. They build the foundation to a range of different publications, presentation at conferences and working groups as tools and channels for the dissemination of results (chapter 4) and thus stimulate valorisation and uptake of results. The SafeCREW partners use their professional networks as main dissemination channels.

#### 3.1 Digital communication activities

As in the previous periods of the project, the graphical abstract of SafeCREW forms the visual backbone of the communication activities (figure 2). This is complemented by a figure highlighting the main features of SafeCREW's case studies (figure 3).

The project website [safecrew.org](https://safecrew.org) is the major digital communication platform of SafeCREW. It explains the aims and objectives clearly and presents the SafeCREW case studies, results and resources in a simple format to ensure all target groups have access to the material and an interface to interact in case of further needs or unclarities. Until 28 February 2026 the website was used in its structure as displayed in deliverable D5.7. In March 2026 a relaunch of the website started to reflect the results at the end of the project and prepare the communication of achievements and outcomes beyond the project. The previous subpage "Expected Results" was changed into the subpage "Results" and now gives a short description for the main SafeCREW results (figure 4). The subpage "Resources" has been structured to facilitate the access to recordings of webinars, public deliverables, policy briefs and the ZeroPollution4Water resources. It provides the links to the permanent repositories on [CORDIS](#) and [Zenodo](#). In the last twelve months, new resources were regularly added when they were available. The other subpages have been updated to reflect the state of achievements and outcomes. The relaunch of the website also serves to secure the technical robustness and the secure accessibility of the website for the two years beyond the project.



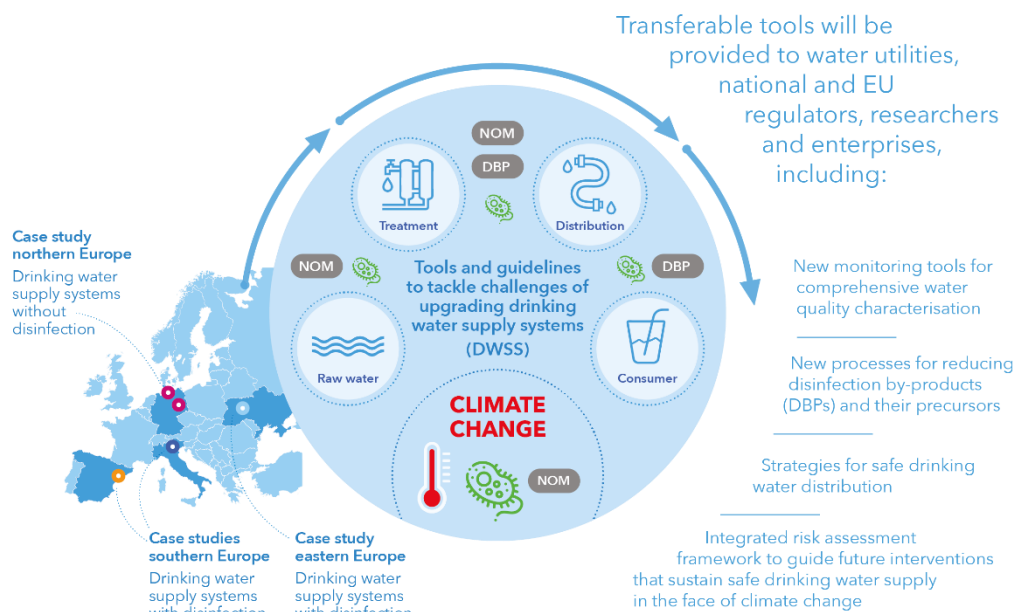


Figure 2: Graphical abstract of SafeCREW (updated May 2024, Copyright TUTECH)



Figure 3: Illustration of SafeCREW's case study sites (updated May 2024, Copyright TUTECH)



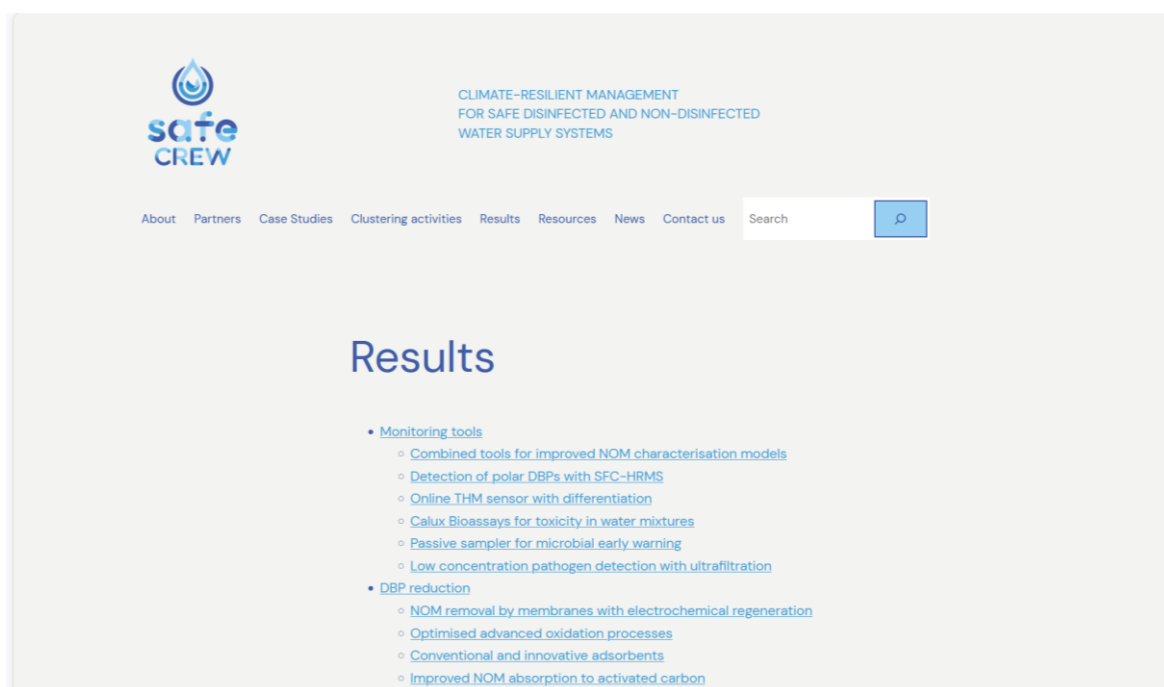


Figure 4: Screenshot from safecrew.org – subpage “Results” (16 April 2026)

Current information on achievements, events and interesting facts about drinking water and research have been highlighted in 94 blog posts until 31 March 2026 (figure 5). This resulted in 12,191 web site visits and 721 downloads. In the last five months (until 31 March 2026) the number of downloads increased (350 downloads/49% of all downloads) due to the downloads of resources like the policy briefs, analytical protocols and deliverables. Statistics showed access from more than 90 different countries in the last twelve months. In addition to 52 downloads of the SafeCREW policy briefs from the website, they were also downloaded 42 times from the [SafeCREW Zenodo community](#). Also, the ZeroPollution4Water Policy Briefs were downloaded 16-times from the SafeCREW website. The “Overview and inventory of the 32 case studies” of the ZeroPollution4Water Cluster was downloaded 42 times in total from the SafeCREW website and Zenodo community. The five published analytical protocols and guidelines were downloaded 110 times. Downloads came from more than twelve countries.

In addition to the website, Social Media accounts on LinkedIn and X (former Twitter) have been established. Until 31 March 2026, 143 LinkedIn and 245 X-posts have been published, advertising upcoming events and creating awareness on SafeCREW research and outcomes. These activities resulted in 1,380 page views, 1,541 reactions and 347 followers on LinkedIn and 5,084 impressions, 499 engagements and 93 followers on X. The blog posts attract water professionals beyond research and the own consortium. 10% of visitors and followers on LinkedIn belong to water utilities, 4% of the followers belong to government administration and 30% visitors and 20% of followers represent engineering services and industry. About 30% of visitors and followers hold senior positions in their institutions.

SafeCREW also contributed content to two ZeroPollution4Water Cluster newsletters and two ICT4Water Cluster newsletters. These contributions served successfully to attract participants to the SafeCREW events.



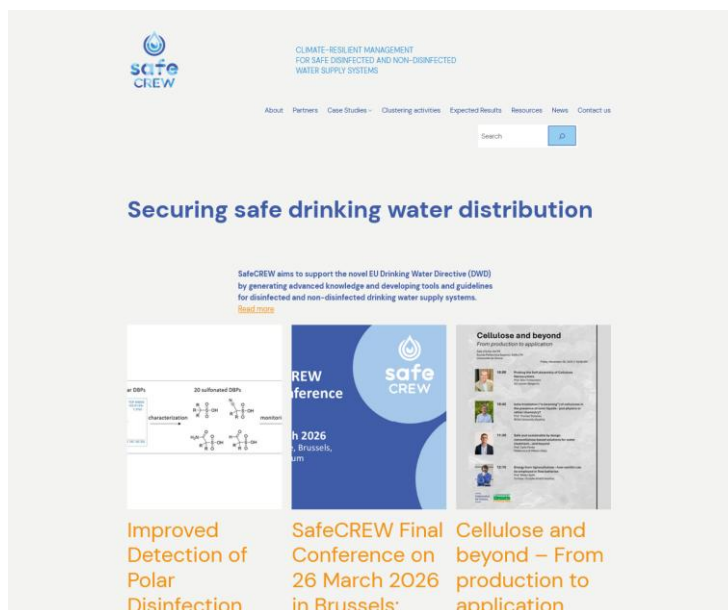


Figure 5: Screenshot from SafeCREW website – landing page and news blog (6 March 2026, Copyright TUTECH)

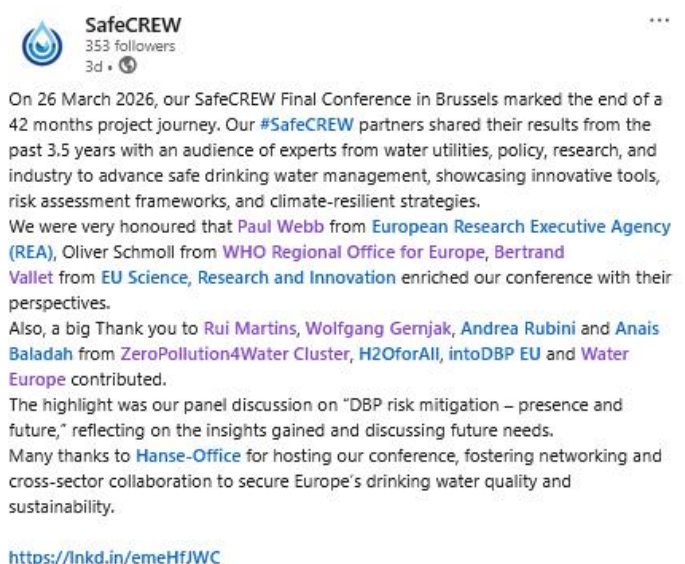


Figure 6: Screenshots - SafeCREW LinkedIn posts about Final Conference and reaction (13 April 2026, (a) Copyright TUTECH (left), Paul Webb/REA (right))



### 3.2 Public facing communication activities

Two videos were produced and published on TUTECH's YouTube channel in March 2026. The first video "[Securing future proof drinking water supply](#)" aims at informing the general public and raising their awareness. This video offers insights into the four case study sites in Hamburg/Berlin, Milan, Tarragona and western Ukraine. Water professionals or researchers connected with these case studies talk about the raw water sources and their current quality, the drinking water treatment processes applied and their challenges due to climate change and finally, their expectations from the project. Thus, consumers learn about the basics of drinking water supply systems in different countries and get an introduction into the project. The second video, [Part II - Advancing climate resilient drinking water management](#), targets water professionals and the interested public. It shall raise awareness about SafeCREW's approach to support water utilities in climate-resilient management procedures for safe water supply systems. Following the golden thread of the SafeCREW graphical abstract (figure 2) and the four specific objectives, SafeCREW partners present the solutions they are developing in the project and the applicability of these solutions by water utilities or policy makers. Subtitles in several languages including French, Italian and Ukrainian are available for both videos. The first feedback from citizens proved that the intentions of the videos were achieved. SafeCREW is confident that the sense of ownership strengthens SafeCREW's communication and dissemination impact. People feel that everyone in the SafeCREW consortium is dedicated to improve climate resilience with his or her work.

*„It is very interesting to see what researchers are doing and how important this is for our life. And it is very good that these videos present this to the public.“*

*Cited after a German citizen not working in scientific areas*

SafeCREW partners engaged in one master class and six live events to engage with citizens and young students. In the NUWEE university project "Week of dreams" Serhii Martynov provided a master class on water quality analysis to graduating school students. This master class introduced the modern spectrophotometric equipment purchased and used for SafeCREW research at Ukraine. As in the previous years, Laura Vinardell and Irene Jubany from EUT engaged in this year's Women Science Day and talked about their life as female SafeCREW researchers in two schools. These activities target young students and aim to stimulate their interest in science and climate change. Four further events targeted citizens in every age. An event named "Water tasting workshop and debate" in Terassa, a city in central eastern Catalonia, aimed at informing the citizens about the safety and quality of Catalanian drinking water. Ramon Perez (EUT) contributed SafeCREW insights to this event. Also, EUT and CAT attended a round table about water management dedicated to the World Water Day in Tarragona and talked about innovations needed to tackle the challenges for water supply in the region. In Hamburg, at TUHH and TUTECH, two events centring around "Water, the liquid that combines nature and technology" and "Hamburg's months of city owned companies" informed citizens about water related research and connecting research, business and society. The SafeCREW project served as a very good example for the importance of research and knowledge transfer for citizens and raised awareness about water safety.

A summary of these communication activities is displayed in table 3 in the annex. To evaluate the success of communication measures, the KPI are given in table 2 in the annex.



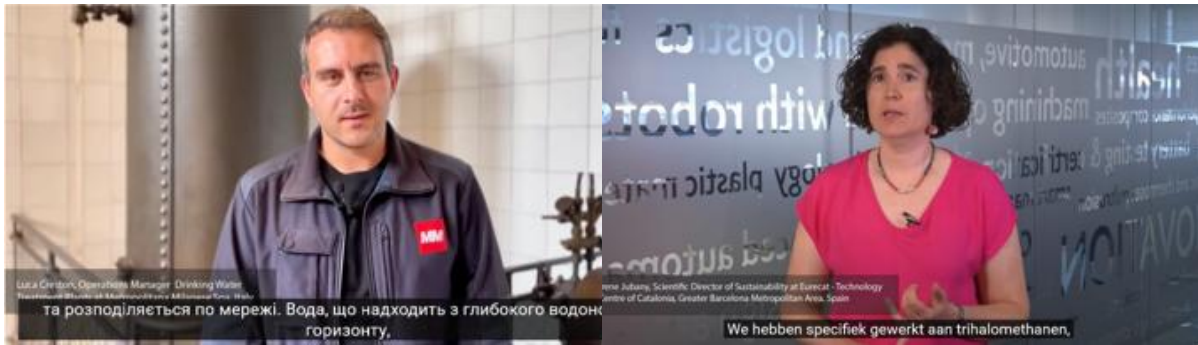


Figure 7: Film stills from SafeCREW videos, on the left: Luca Creston (MM), case study #2 Milan in video 1, on the right: Irene Jubany (EUT), DBP modelling in video 2 (Copyright TUTECH)

## 4. Dissemination and clustering activities

### 4.1 Clustering activities in cooperation with the ZeroPollution4Water Cluster



Figure 8: The ZeroPollution4Water Cluster and the 32 case studies of seven founding projects. Black dots: 18 groundwater related case studies. Red dots: 14 drinking water related case studies. (Copyright: Feuga)

The ZeroPollution4Water Cluster has been founded in March 2023 as an initiative from seven projects funded from two Horizon Europe 2022 calls aiming at:

- preventing groundwater contamination and protecting its quality against harmful impacts of global and climate change; and
- securing drinking water quality by protecting water sources against pollution, providing innovative monitoring and treatment solutions, and ensuring safe distribution.



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SafeCREW has been one of these founding projects (see table 1) and was engaged in building the structure and contributing to the joint activities from the very beginning. Since 2025, the cluster expanded to 19 projects, now incorporating additional nine Horizon Europe projects and three LIFE projects. With this expansion, the vision broadened across the entire water cycle, integrating perspectives that address gaps beyond the original founding projects. This reflects a deliberate commitment to strengthen scientific insight, enhance water protection strategies, and advance Europe's zero-pollution ambitions.

Focusing on the European Union's zero-pollution ambition and the European Green Deal, the cluster aims to leverage the cooperation and synergies among these water related projects to develop advanced prevention and mitigation strategies, effective risk assessment and management systems, and innovative monitoring and treatment solutions for improving water quality. It also aims to develop new technologies ready for the market to prevent or tackle water pollution.

In addition to research and innovation, the cluster is committed to advancing policy development and implementation. It utilises the Project4Policy methodology to shape EU policies related to water quality and pollution prevention.

In summary, the ZP4W Cluster's strategy combines research excellence, collaboration, knowledge exchange, and policy influence to achieve its objectives of creating a toxic-free environment, enhancing water management, and realising a Water-Smart Society.

The ZP4W Cluster is coordinated by Water Europe, which is partner of some of the member projects. Building on its [Cluster Strategy](#) and annual action plans, the cluster organised itself initially in six working groups (WG). SafeCREW is an active member of all six working groups and participated in all public events of the cluster. In *WG3 Communication* it actively contributes to the [website](#) and reposts LinkedIn- and X-posts via the SafeCREW accounts.

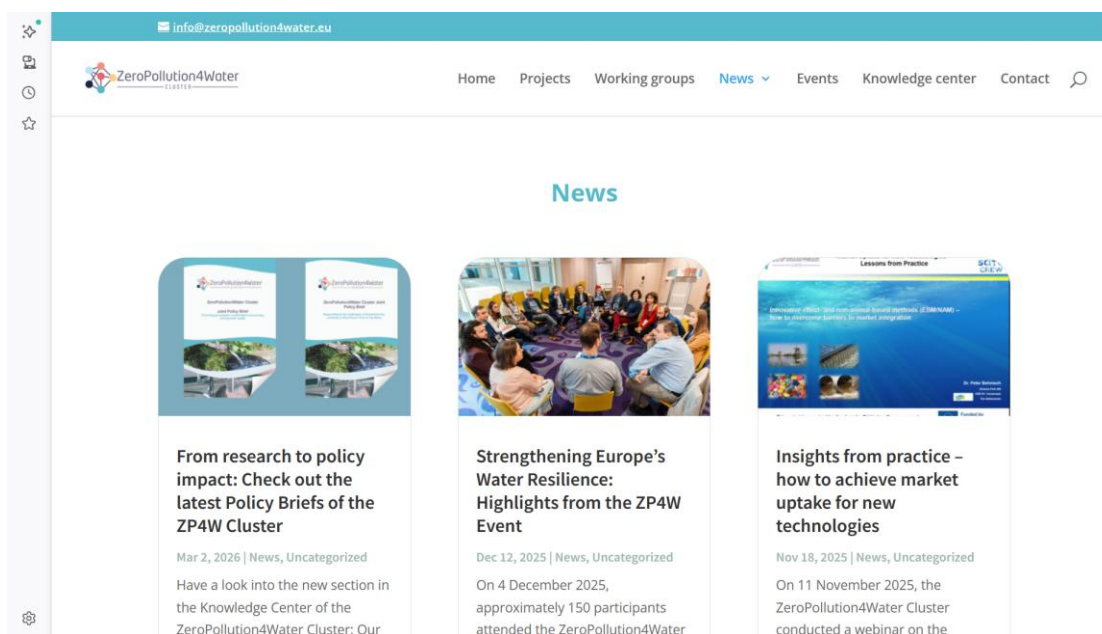


Figure 9: Screenshot from Zeropollution4Water website (6 March 2026)



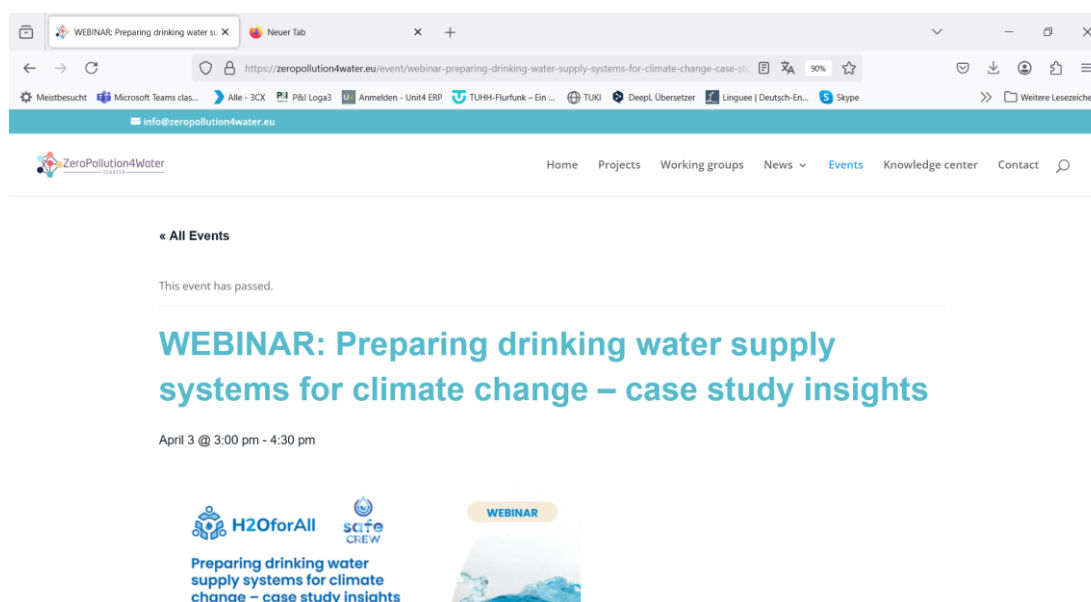


Figure 10: Screenshot from ZeroPollution4Water event page (6 March 2026)

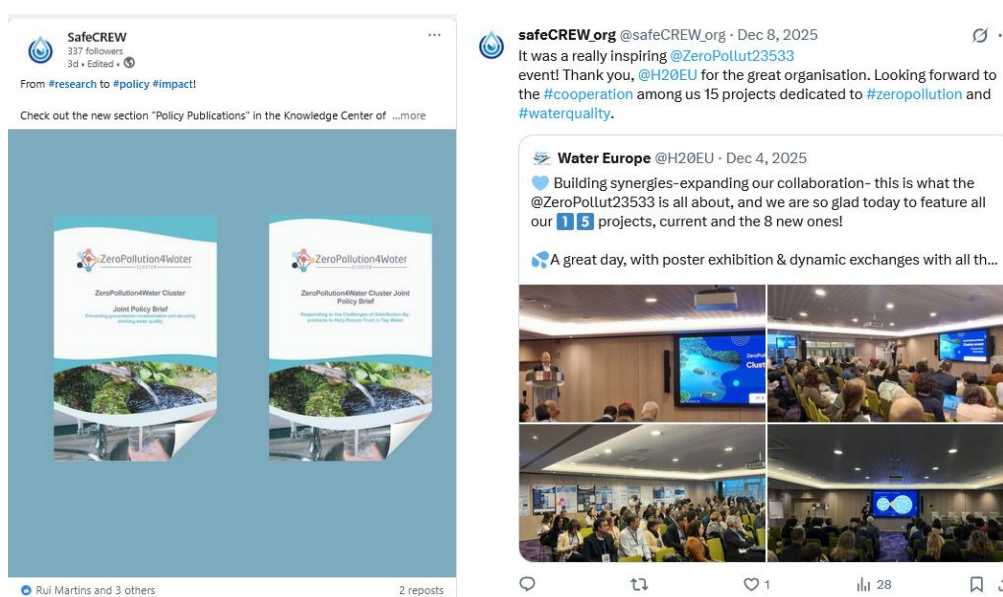


Figure 11: Screenshots from ZeroPollution4Water reposts (left: LinkedIn, right: X; (6 March 2026))

## Zeropollution4Water Cluster Events (WG1 Management and Coordination and WG3 Communication)

In the last twelve months the members of the ZP4W Cluster organised eight large cluster events open to external water professionals. All these events aimed at promoting the European Union's Zero Pollution ambition and the engagement of the member projects to improve water quality. Four of the events were organised by the cluster, while four events were organised by sister projects which explicitly invited ZP4W Cluster contributions. The joint ZP4W Cluster events comprise the [EU Green Week 2025 Partner Event](#), the ZP4W WG6 webinar "[Market Uptake for New Technologies – Lessons from Practice](#)", the [ZP4W Cluster Event in conjunction with Water Knowledge Europe Winter Edition 2025](#) and the webinar "[Water Resilience & Gender: From Policy to Practice](#)" dedicated to the World



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Water Day 2026. H2OforAll and SafeCREW conducted their [fifth joint webinar](#) on 3 April 2025, which was already described in deliverable D5.7. The [4<sup>th</sup> H2OforAll Workshop](#) “Connecting People & Data for Better Drinking Water Quality and Management” and the final events of [H2OforAll](#) and [SafeCREW](#) also deliberately included the ZP4W cluster, thus illustrating the value of cluster cooperation for each of the projects.

As in 2024, the ZP4W Cluster organised an [EU Green Week 2025 Partner Event](#) on 20 June 2025. The online event “Unlocking solutions: 32 case studies for zero-pollution drinking and groundwater” centred around the launch of the cluster publication “[ZeroPollution4Water Cluster - overview and the inventory of 32 case studies in drinking and groundwater](#)<sup>1</sup>” published on the EC publications website on 11 March 2025. This keynote was delivered by SafeCREW partner TUTECH. A session “Bringing technologies to market uptake” which featured one technology per founding project in depth, an expert panel discussing how the seven projects turn research into action and the summary of the key take aways rounded the event off. The event attracted 50 participants in the virtual room and additional 1,067 people following the live stream. SafeCREW partners TUTECH, BDS and DVGW-TUHH presented. The recording is available on [Youtube](#) and reports of the event were published on the [ZP4W Cluster website](#) and on [safecrew.org](#) as well as in the [social media](#).



Figure 12: Film still from the EU Green Week 2025 Partner Event organised by the ZP4W Cluster (<https://www.youtube.com/watch?v=wyV3-8BTKNc>; Copyright ZeroPollution4Water Cluster)

The [4<sup>th</sup> H2OforAll Workshop](#) “Connecting People & Data for Better Drinking Water Quality and Management” (online, 25 June 2025) discussed preliminary findings of H2O4All and the ZP4W Cluster. It focused on the challenge of DBPs and a comparative analysis of its regulatory frameworks in the EU,

<sup>1</sup> European Commission: European Research Executive Agency, Remmert-Rieper, M., Meilmann, D., Martins, R., Charpentier, L. et al., *ZeroPollution4Water Cluster – The overview and the inventory of 32 case studies in drinking and groundwater*, Publications Office of the European Union, 2025, <https://data.europa.eu/doi/10.2848/3536872>



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Australia, and the USA. More than 50 online participants including policymakers, researchers, and water professionals from across Europe and beyond participated. SafeCREW partners TUTECH and EUT contributed.

The [H2OforAll Final Event](#) on 23 to 24 October 2025 at the University of Coimbra in Portugal presented mainly H2OforAll achievements in advancing the understanding, monitoring, and control of DBPs in drinking water. At the same time, it showcased the benefits from cooperating in the cluster. The event comprises presentations from invited ZP4W Cluster sister projects, including six presentations by SafeCREW partners and the exhibition stand of BDS. Two presentations directly covered ZP4W topics: SafeCREW partner TUTECH provided an overview about all ZP4W case studies and their main contributions to zero pollution for water, while Water Europe talked about the policy advisory activities of the cluster. The event reached over 60 European and international participants including water utilities, regulators, and representatives of the general public.

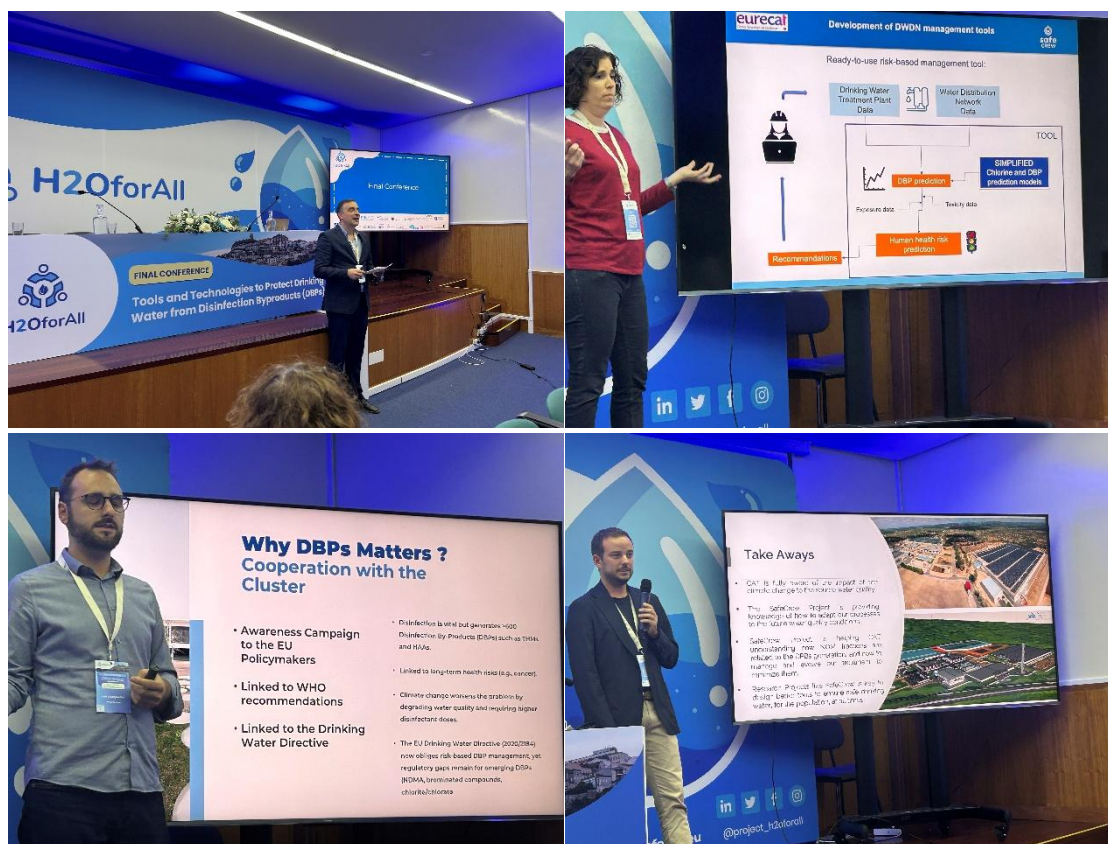


Figure 13: Pictures from the H2OforAll Final Event, Coimbra, 23-24 October 2025 (a) Rui Martins (coordinator H2OforAll), (b) Irene Jubany (EUT, SafeCREW), (c) Loic Charpentier (Water Europe, ZP4W Cluster), (d) Aleix Martorell (CAT, SafeCREW) on case study #4 in Tarragona (Pictures: TUTECH)

ZP4W Working group WG6 “From research to market” organised a webinar “[Market Uptake for New Technologies – Lessons from Practice](#)” with the aim to sharing practices to stimulate market uptake of water related innovations on 11 November 2026. SafeCREW partner BDS contributed with its roadmap to market uptake for the CALUX bioassays.

On 4 December 2025, approximately 150 participants attended the [ZeroPollution4Water Cluster event held in conjunction with the Water Knowledge Europe Winter Edition 2025](#) in Brussels. The event highlighted the achievements of the cluster’s first two years and explored future opportunities for collaboration. Marking a significant milestone, the gathering reflected on the accomplishments of the



seven founding projects and welcomed eight new projects which are poised to continue and expand the cluster's mission. This is important, as the original projects approach their completion over the next six months. Some of the eight new projects receive funding from Horizon Europe, some are LIFE projects. They introduce new topics beyond drinking and groundwater to the cluster. A panel discussion with European Commission representatives connected the needs and expectations of the European Commission related to zero pollution, water quality and water resilience with the needs and expectations of the ZP4W projects. The event concluded with the internal meeting of the cluster members. Incorporating fresh perspectives from the new projects, they revisited and, where necessary, reorganised the working group structure and defined a common roadmap for the coming year. Attendees valued the rare opportunity for in-person interaction, which fostered lively discussions, innovative ideas, and effective brainstorming. This collaborative spirit is set to propel the cluster's future endeavours.



Figure 14: Pictures from the ZP4W Cluster side event at WKE Winter edition 2025, 4 December 2026 (a) Working groups 4 and 6 discussing future work and (b) SafeCREW team present at the event (NUWEE, EUT, DVGW-TUHH, TUTECH, BDS) (Copyright (a) Water Europe, (b) TUTECH)

### Joint ZeroPollution4Water Cluster Policy Briefs and activities (WG2 Policy Advisory)

The *WG2 Policy Advisory* continued its work with two further joint ZP4W policy briefs. The second [ZP4W Policy Brief #2](#) “Responding to the challenges of disinfection-by-products to help to ensure trust in tap water” was published on 29 August 2025 and addressed the growing challenge of DBPs. In its key recommendations, the document highlights the need to adopt proactive and adaptive measures to address climate-related challenges affecting water quality, to invest in infrastructure and advanced treatment technologies, including monitoring and early-warning systems, to reduce DBP formation and to ensure transparent communication with citizens, sharing clear and accessible data to build trust in tap water and update EU legislation by setting regulatory limits for emerging, currently unregulated DBPs. UBA and TUTECH contributed to the policy brief with input from SafeCREW research. The third [ZP4W Policy Brief #3](#) “Reinforcing EU Groundwater Policy for Emerging Risks” was developed by the six EU-funded ZP4W projects [MAR2PROTECT](#), [NINFA](#), [UPWATER](#), [NIAGARA](#), [SafeCREW](#) and [LIFE-CASCADE](#). This document sets out key recommendations to strengthen the protection of groundwater resources in Europe and support the effective implementation of the Groundwater Directive (GWD). It builds on recent research and innovation results to address emerging risks affecting groundwater quality and availability. Currently, the ZP4W WG2 Policy advisory is preparing a reply to the call of evidence on the Water Framework Directive (WFD). This reply will advocate for an improved implementation of the WFD with the aim to strengthen digital and integrated groundwater monitoring and Managed Aquifer Recharge (MAR) within the Groundwater Directive (GWD) and related policies. All three joint ZP4W policy briefs will be attached to the reply. All policy briefs were distributed to European policy stakeholders in the water sector (DG ENV, MEPs, REA) and announced



via the [websites](#) and social media. A new section “[Policy Publications](#)” was created on the ZP4W cluster website to facilitate the access to all policy briefs published jointly by the cluster or individually by each project. SafeCREW also supported the accessibility of the joint ZP4W policy briefs by providing them on its [resources website](#).

#### **WG4 Technology and Innovation and WG6 From Research to Impact**

In the last year, the *WG4 Technology and Innovation* finalised a whitepaper “Safe drinking water production in view of global threats including climate change” coordinated by SafeCREW partner EUT. This whitepaper has now been reviewed by REA and will be published after embedding the REA recommendations.

Based on the shortlist of five promising ZP4W technologies with a TRL > 5 established in spring 2025 (described in D5.7), *WG6 From Research to Impact* selected two SafeCREW solutions, the THM analyser and the effect based non-animal methods (EBM/NAM) to determine DBP toxicity for the first round of market exploration. BDS roadmap to market for the CALUX bioassays, EBM/NAM to determine DBP toxicity, was presented in the webinar “[Market Uptake for New Technologies – Lessons from Practice](#)” described above. MSS roadmap to market for the THM analyser served as the example for the ZeroPollution4Water Cluster Case Study: Key steps for market uptake of the THM Analyser<sup>2</sup>, a guidance for preparing the market launch of innovative water related technologies.

Dissemination in close cooperation with the ZeroPollution4Water Cluster has proved as a successful way for reaching the relevant European stakeholders, esp. policy makers and water professionals. As all seven founding projects will successively end between 31 October 2025 and 31 October 2026, a new cohort of EU funded projects has been onboarded. Currently, 19 projects are active members of the cluster, and they widened the perspective on zero pollution for water beyond the scope of groundwater and drinking water. The new projects are already engaged in leading the working groups and preparing current and future initiatives (e.g., the webinar dedicated to the World Water Day on 23 March and the planned input to the WFD survey) and will ensure the continuation of the clusters’ work beyond October 2026.

#### **4.2 Dissemination towards water utilities, regulators and policy makers**

As demonstrated above, the dissemination activities together with the ZP4W Cluster serve very well to engage with water utilities, regulators and policy makers on the European level and thus increase the EU scientific and technological base on measures to manage drinking water quality and evidence for policy-making, safety planning and implementation.

In addition, engagement with local, regional and national water utilities and authorities supports the implementation of advanced preventive and mitigating measures to protect drinking water treatment and supply against harmful effects of climate change. Thus, beyond the workshops and webinars described in section 4.1, SafeCREW partners engaged with stakeholders from regional and national water utilities, authorities, the water related industry and their associations in five working group meetings, seven consultancy meetings and five dedicated events like the workshops with regulators, policy makers and authorities since April 2025 (Annex: table 5).

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<sup>2</sup> Ostuni, G. (2025). ZeroPollution4Water Cluster Case Study: Key steps for market uptake of the THM Analyser, Meilman, D. (ed.). [https://zeropollution4water.eu/wp-content/uploads/2025/11/Case-study\\_final.pdf](https://zeropollution4water.eu/wp-content/uploads/2025/11/Case-study_final.pdf), accessed 10 February 2026.



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Water utilities in Spain, especially if they are dependent on surface water as drinking water source, already experience the harmful effects of climate change very clearly, e.g., deteriorated raw water quality due to frequent droughts. The pressure to adapt drinking water management and to apply effective risk management strategies and early warning systems is high. They are very interested in the SafeCREW innovations in case study #3 (Tarragona, Spain), such as EUT's new DBP prediction models. This resulted in seven consultancy meetings between EUT researchers and different Spanish water utilities. These meetings served to explore the application potential of the DBP prediction modelling and potential implementation projects in the utilities. CAT already started to implement the SafeCREW solutions and will continue sharing the experiences in regional working groups with utilities, regulators and authorities.

About half of German water utilities do not apply permanent disinfection in their drinking water treatment processes. However, they aim to be prepared in case of emergency needs and specifically if climate change will require disinfection in the future. Therefore, DVGW-TUHH engaged in committees and working groups of the DVGW, the German Technical and Scientific Association for Gas and Water. On 30 September 2025, Mathias Ernst (DVGW-TUHH) presented at the board of German Water Utilities (confidential meeting) responsible for disinfection (DVGW Working Committee Drinking Water Treatment "NA 119-07-14 AA "). The committee comprises representatives of German utilities already applying disinfection and of health authorities and intensively discussed the occurrence, formation mechanisms and relevance of sulfonated DBPs. The SafeCREW results and insights from the case study sites have been considered as top relevant for the audience. Further cooperation was offered and requested (e.g., providing samples for measuring the novel DBPs).

Since 1 May 2024 National University of Water and Environmental Engineering (NUWEE) is contributing to the project with a fourth case study "Drinking water supply systems in Western Ukraine". This adds the Eastern European perspective on water supply systems to SafeCREW as well as to the ZeroPollution4Water Cluster. A major objective of NUWEE is the knowledge transfer from EU water supply systems to Ukrainian water supply systems. NUWEE's researchers visited the case study sites in Milan (Italy) and Tarragona (Spain) to improve their knowledge on advanced drinking water monitoring, modelling, soft sensors, risk assessment frameworks and drinking water treatment. They translated this learning into a number of training activities and additional university courses. In October 2024, NUWEE organised a round table on the SafeCREW project results titled "Safe Drinking Water in Ukraine: Access to Information on Water Quality and Water Treatment Methods" and focusing on the implementation of the course "Newest Methods of Water Treatment" into the curricula at NUWEE<sup>3</sup>. Open lectures on the water supply system of Spain transferring the outcomes of NUWEE's visits to case study #3 were also delivered to Yuriy Fedkovych Chernivtsi National University in two seminars in May and September 2025. Most importantly, NUWEE conducted three webinars in Ukrainian language with the aim to train Ukrainian water utilities. These webinars reached more than 100 participants from more than 20 Ukrainian water supply utilities. The first two webinars were conducted on 30 June and 21 July 2025 in cooperation with the Water Operators' Partnership (WOP) of Hamburg Wasser (HW), Berliner Wasserbetriebe (BWB) and Kyivvodokanal (water utilities of Hamburg, Berlin and Kyiv). HW and BWB are connected to case study #1 in northern Germany. The webinar focused on NUWEE's SafeCREW case study and covered the water supply situation in west Ukraine regarding sources, disinfection methods and the comparison with EU standards. The discussion highlighted the implementation of a risk-based approach to water safety. This framework, increasingly adopted in the EU, was seen as promising for Ukraine's water sector. The webinar



facilitated valuable knowledge exchange and strengthened the cooperation between Ukrainian water utilities, academic institutions, and international partners. Such collaborations are seen as vital for improving water quality and ensuring safe drinking water for communities across Ukraine. A third webinar on [“Water Quality Monitoring in Centralized Water Supply Systems”](#) was conducted on 17 March 2026 and transferred the acquired experience and results to 20 participants from the university faculty, water utilities and design and installation companies from Rivne, Zhytomyr and Kyiv regions. NUWEE is engaged in close cooperation with Ukrvodokanalekologiya (Ukrainian Association of Water Supply and Sewerage Enterprises), WaterNET, the State Agency of Water Resources of Ukraine, and the Institute of Hydromechanics of the National Academy of Sciences of Ukraine. These organisations are already aware of the SafeCREW project, and the remaining task is to formalise this cooperation. A workshop to present the results of the SafeCREW project to the Ukrainian water related community and identify future research directions for local and regional stakeholders is planned for 21 April 2026 under the topic “Improving the Safety of Drinking Water Supply in Settlements” at NUWEE.

At the European level, DVGW-TUHH organised a dedicated online meeting with the EurEau 1 - Drinking water committee on 23 January 2026. This meeting built on the first meeting with the committee in February 2023. The EurEau 1 - Drinking water committee served as SafeCREW’s focus group to give feedback on the usability of the results and support the knowledge transfer to European water utilities. Followed by introductory presentations about SafeCREW research results, the focus group discussed current challenges of water quality monitoring in waterworks, with a special focus on passive samplers for pathogen monitoring and soft sensors for routine drinking water supply system management. The ten participants from European water utilities and the SafeCREW partners exchanged about the application potential. As most of the participants were involved in microbial safety in their organisations the discussion touched upon urgently relevant application questions and proved useful for further development. The focus group expressed their explicit interest in further results. This meeting, together with the two focus group meetings at project start, reassured the timeliness of SafeCREW solutions. Further European cooperation to further develop research based on SafeCREW has been initiated between KWB and the Energy and Water Agency Malta.

The European network of drinking water regulators (ENDWARE) is an informal network of EU drinking-water regulators who meet twice per year for exchange of information and experience. UBA provides policy advice to the German Ministry of Health and, in this role, is engaged in the exchange with ENDWARE. Following the introduction of SafeCREW to ENDWARE in May 2023, two further meetings with ENDWARE followed on 12-13 May and 10 December 2025. In May 2025, the presentation and discussion took place during the regular ENDWARE meeting in London and centred around the results on the identification of novel sulfonated DBPs and their potential relevance for EU DWD legislation. The presentation met the interest of the group and initiated the third meeting in December as specifically dedicated to SafeCREW outcomes. The results on the sulfonated DBPs were presented in more detail, complemented by the presentation on non-animal effect-based trigger methods for toxicity assessment. A fourth presentation of SafeCREW results to the ENDWARE meeting in autumn 2026 is planned when UBA will host the next meeting of the drinking water regulators.

Via the Scientific Council of the All-Ukrainian Environmental League (AEL), NUWEE engaged with national regulators and authorities. The AEL represents more than 260 town and district offices in all regions of Ukraine. It aims to improve ecological condition in the country and raise the level of ecological education of citizens. On 19 March 2026, NUWEE’s presentation on the relevance of the SafeCREW results for the Ukrainian water supply, with a focus on water quality monitoring and risk assessment in centralised water supply systems reached 50 AEL members, including local environmental control authorities, the Chair of the Committee on Environmental Policy and Nature



Management and the Heads of the Subcommittee on Water Protection, Rational Use of Water Resources, and State Environmental Monitoring and the State Agency of Water Resources of Ukraine. Engagement with the National Energy and Utilities Regulatory Commission Ukraine (NEURC Ukraine) and the State Agency for Land Reclamation and Fisheries of Ukraine is also planned, though currently challenging due to restrictions and reorganisations forced by the current war.

Three SafeCREW policy briefs were issued in the last year, complementing the three joint ZP4W Cluster policy briefs by providing scientific evidence and recommendations specifically drawn from the SafeCREW results. SafeCREW Policy Brief #1 [“Advancing NAM/EBM for the Assessment of Disinfection By-Products and Complex Chemical Mixtures in Drinking Water”](#), issued on 1 December 2025 and presented at the Water Knowledge Europe Winter Edition 2025, addresses the toxicity assessment of mixtures of DBPs and other pollutants in drinking water, with a focus on non-animal, effect-based methods (NAM/EBM). These rapid and cost-effective methods offer the opportunity of a holistic toxicity assessment of chemical mixtures, including currently unknown substances. The policy brief calls for developing a European roadmap for a NAM/EBM-based regulatory system. It has been actively disseminated in conferences, talks and meetings with European regulators and policy makers, mainly driven by BDS. SafeCREW Policy Brief #2 [“Major Outcomes on Disinfection and Disinfection By-Products and Solutions”](#) summarises SafeCREW outcomes on disinfection and DBPs, recommending precautionary attention on emerging DBPs and new treatment and risk assessment approaches to guide drinking water management amid climate change. Finally, SafeCREW Policy Brief #3 [“Managing the transition from non-disinfected to disinfected drinking water supply systems”](#) provides evidence-based guidance for transitioning to disinfected drinking water networks, supporting decision makers and utilities in managing DBPs in water treatment and distribution systems, based on SafeCREW’s main findings. Both policy briefs were issued in February 2026 and launched at the SafeCREW Final Conference. They were transferred to European policy makers, provided internationally via the WHO Collaborating Centre at UBA and forwarded by a Risk Assessment Committee member to the European Chemicals Agency (ECHA). All three policy briefs were shared with the ZP4W WG2 Policy Advisory as the basis for the future policy engagement of the cluster and published on the Policy Publications section of the ZP4W website and on Zenodo to enhance the outreach and facilitate access. Communication via LinkedIn supports the dissemination activities. In addition to the policy briefs, SafeCREW participated in the short online survey on relevant project output, related to the Second European Climate Risk Assessment (EUCRA-2), thus contributing to a consolidated evidence base to support EU policymaking on climate-related risks to be published in 2028 by the European Environment Agency (EEA) at the request of the European Commission.



Figure 15: SafeCREW Policy Briefs (Copyright TUTECH)



### 4.3. Scientific dissemination via conferences and publications

Between April 2025 and March 2026, SafeCREW researchers contributed to more than 30 presentations to more than 22 national and international conferences (including more than 25 oral presentations, four poster presentations and two keynote lectures). Three of these conferences, the 15<sup>th</sup> Biodetector Conference (26-27 June 2025), the 29<sup>th</sup> Drinking Water Colloquium at TUHH (12 February 2026) and the SafeCREW Final Conference (26 March 2026) were organised by SafeCREW partners (see annex, table 4). The 16<sup>th</sup> Biodetectors Conference organised by BDS is currently under preparation. At least nine presentations (three planned, four confirmed, one keynote, one poster) at seven conferences will follow until the end of 2026. Some of the conference contributions are described below.



Figure 16: Pictures from SafeCREW researchers at conferences: (a) Irene Jubany (EUT) at a Roundtable at Water Utility of Manresa on digitalisation, 9 May 2025 (b) David Langenbach (UBA) talks about DBP formation from materials in contact with water at GdCh conference “Wasser”, 26-28 May 2025 (c) Jon Wullenweber (DVGW-TUHH) on the removal of DBP precursors using adsorptive membranes and chemical-free regeneration at IWA Membrane Technology Conference (MTC) 2025, 16 September 2025 (d) Marta Mulet (CAT) on predictive modelling to optimise coagulation and flocculation at the ecoSTP 2025, 23-26 June 2025, (e) Mathias Ernst (DVGW-TUHH) on data analysis to assess climate change impacts on drinking water quality at the Drinking Water Quality Europe, Amsterdam, 5-6 November 2025, (f) Laura Riva (POLIMI) on cellulose-based nanomaterials for the improved monitoring of water microbiological quality at Merck Young Chemists’ Symposium XXIV Edition, Rimini, 1-3 December 2025. (Pictures (a) EUT, (b) UBA, (c), (e) DVGW-TUHH, (d) CAT, (f) POLIMI)

CAT and EUT participated in a conference “[Innovation in the digitization of the water cycle within the framework of the PERTE challenges and learnings](#)” organised by the Water Utility of Manresa about water sector digitalisation. CAT presented their digitalisation project including SafeCREW activities and EUT was in a roundtable about opportunities for the sector after digitalisation projects and explained part of the SafeCREW results. Utilities from all over Spain attended.

SafeCREW showed a strong presence at the GDCh conference “Wasser 2025” (26-28 May 2025) with



three oral presentations delivered by Maolida Nihemaiti (UFZ) on the “Occurrence of novel highly polar sulfonated disinfection by-products in drinking water”, Jon Wullenweber (DVGW-TUHH) on “Electrochemical Regeneration of Membrane Adsorbers for the Removal of Disinfection By-product (DBP) Precursors in Drinking Water Treatment” and David Langenbach (UBA) on the “Formation of disinfection by-products from materials in contact with chlorinated drinking water”.

At the 35<sup>th</sup> SETAC Europe Annual Conference on 11-15 May 2025 in Vienna, Austria, an international forum in environmental chemistry and toxicology, SafeCREW results on the identification of novel, highly polar sulfonated disinfection by-products (DBPs) in drinking water using supercritical fluid chromatography coupled with high-resolution mass spectrometry (SFC-HRMS) were presented by Maolida Nihemaiti (UFZ). She highlighted analytical challenges related to extremely polar compounds and demonstrated the potential of SFC-HRMS for DBP studies. The presentation generated active discussion, with questions focusing on toxicity, formation mechanisms, and analytical strategies.

In September 2025, Jon Wullenweber (DVGW-TUHH) presented at the IWA Membrane Technology Conference (MTC), in Seoul/Daegu, South Korea. His talk focused on the removal of DBP precursors using adsorptive membranes and a sustainable, chemical-free regeneration approach with electro-ready membranes. The presentation sparked an engaging discussion with the audience on advancing sustainable water treatment technologies with scientific researchers as well as water utilities expressing their interest in the SafeCREW outcomes.

Laura Riva (POLIMI) presented her poster “Green cellulose-based nanomaterials for the improved monitoring of water microbiological quality” at the Merck Young Chemists’ Symposium (MYCS) XXIV Edition on 1-3 December 2025 in Rimini. The MYCS is an annual event entirely dedicated to young researchers working in Chemistry and organised by the Young Group of Società Chimica Italiana (*SCI Giovani*) and the National Interuniversity Consortium of Materials Science and Technology (INSTM). It covers all disciplines of Chemistry.

Mathias Ernst (DVGW-TUHH) was invited to two keynote lectures. At the [Drinking Water Quality Europe](#) on 5-6 November 2025 in Amsterdam he talked to executives in the water sector and policy about data analysis to assess climate change impacts on drinking water quality sharing insights on surface water quality trends and impact on treatment as well as current thinking and future planning. On the [2nd International conference on circularity, sustainability and resilience in water, wastewater and sludge management](#) (CSRW) on 1 April 2026 in Thessaloniki he talked about the outcomes of SafeCREW studies on membrane adsorbers for selective removal of natural organic matter (NOM) and their electrochemical regeneration, sparking intensive discussion on the reagent-free generation of membrane adsorbers. Mathias Ernst (DVGW-TUHH) also presented the key outcomes of the project on the [59th Essener Tagung 2026](#) on 4-6 March 2026. These include the discovery of 15 sulfonated DBPs, hypotheses regarding their formation mechanisms from sulfur-containing NOM, animal-free approaches to assessing the toxicological relevance of DBPs, and new reagent-free methods for differentiating regulated THMs and for NOM removal. The talk received intense feedback on the NOM removal techniques and the request from a larger water utility with the openness to test it if a larger scale is available.

In the last twelve months, two PhD candidates, five master students and one bachelor student defended their theses (EUT, NUWEE, POLIMI) dedicated to aspects of SafeCREW (annex, table 5). In total, to date two PhD theses, 13 master theses and two bachelor theses on SafeCREW topics were completed and six PhD projects and one master project are ongoing and will be completed after the end of SafeCREW. The number of open access publications rose to eight until 31 March 2026, with more publications under preparation (annex, table 6).



#### 4.4 SafeCREW Final Conference

On 26 March 2026, SafeCREW held its Final Conference in Brussels. The conference aimed to engage experts from water utilities, policy makers, technology providers and research in the exchange about the SafeCREW achievements. The core programme contained six presentations from SafeCREW researchers covering all key results. At the same time, SafeCREW featured the work of the ZeroPollution4Water Cluster by inviting Water Europe and the sister projects H2OforAll and intoDBP to contribute their project outcomes and insights. To complement the programme with external perspectives from policy, SafeCREW invited speakers from the European Commission (EC), the European Research Executive Agency (REA), the European Parliament (EP) and the WHO Regional Office for Europe (WHO-EU). Though the two members of European Parliament had looked forward to sharing their views on the European Water Resilience Strategy, however they had to cancel on short notice due to an important plenary debate at the EP.



Figure 17: Impressions from the SafeCREW Final Conference, including the panel discussion (Copyright TUTECH)

In his welcome speech, Paul Webb, Head of Department for “Green Europe” research at European Research Executive Agency (REA) and Acting Director, emphasised the importance of aligning policy and technological development, noting the growing public concern over drinking water quality, as highlighted by recent elections in Denmark. He also highlighted the importance of the work of the ZeroPollution4Water Cluster. Oliver Schmoll from the WHO Regional Office for Europe then presented on Water Safety Plans (WSP). He stressed that water safety is integral not only to SDG 6 (clean water and sanitation) but also to SDG 3 (health and well-being), as unsafe Water, Sanitation, and Hygiene (WASH) are linked to an estimated 33,000 deaths annually in the EU. WSPs aim to overcome limitations



of testing drinking water only at the final product stage and are promoted under the EU Drinking Water Directive. Schmoll also mentioned ongoing WHO efforts to support water infrastructure resilience in Ukraine amid conflict, including a preparedness checklist. The following five presentations covered the work of SafeCREW, intoDBP and H2OforAll on tools to monitor and analyse DBPs and DBP precursors, risk assessment frameworks and the management of drinking water distribution networks. The panel discussion “DBP risk mitigation – presence and future”, moderated by Gabry Ostuni (MSS), was one of the highlights of the conference. Wolfgang Gernjak (ICRA, intoDBP), Irene Jubany (Eurecat, SafeCREW), Rui Martins (Uni Coimbra, H2OforAll), Oliver Schmoll (WHO-EU), Bertrand Vallet (DG-RTD) and Andrea Rubini (Water Europe, ZP4W Cluster) explored the future relevance of Risk Management Plans versus innovative monitoring tools for DBP control. Key points included the complementary nature of soft sensors and traditional measurements — soft sensors inform operators on emerging risks while regulatory compliance requires direct measurement. Participants stressed the need to avoid over-regulation, focus on guidelines addressing relevant health risks, and ensure data sharing to enhance model confidence. The panel highlighted challenges faced by small water supply systems, advocating for tailored guidelines and new operational skills. Artificial intelligence (AI) was recognised as a promising tool to support plant operations and optimise treatment parameters, especially in small systems struggling with regulatory implementation. Three SafeCREW presentations followed lunch, including a presentation by NUWEE on transferring the SafeCREW methods to Ukraine, noting differences between EU and Ukrainian standards, including aspects like microplastics and PFAS regulations. The concluding remarks by Sofia Pachini (REA) and Anissa Grieb (DVGW-TUHH) emphasised the broader context provided by the panel discussions and WHO presentations. They highlighted the importance of applying research results also to small and less-developed water supply systems across the EU, which has just started.

Held at the [Hanse-Office – the joint representation of the city of Hamburg and the federal state of Schleswig-Holstein in Brussels](#), the conference facilitated the participation of the European institutions based in Brussels and connected between policy and the water community. It attracted 48 participants, including Belgian water utilities, water technology providers and associations like Aqua Europe, Aqua Flanders, Aqua Publica Europe and Water Europe.

#### 4.4 SafeCREW Analytical Protocols, Guidelines and Final Public Report

To facilitate the access to the scientific and technological knowledge generated and the measures to manage drinking water quality developed beyond the project, SafeCREW published a series of analytical protocols and guidelines and one final public report, available on [Zenodo](#). They address water professionals, multipliers and the interested audience in a short way. The analytical protocols and guidelines briefly introduce the methods and guidance developed and lead to the in-depth deliverables and publications that provide the scientific and technical details.

This public report “Climate-resilient management for safe water supply systems” (deliverable D5.4) serves as a brief summary of the project. The report presents a comprehensive overview of the key results and insights gained throughout the project, demonstrating SafeCREW’s contribution to strengthening the resilience and preparedness of the EU water sector. It provides guidance and links towards the publications, reports and resources providing background knowledge and evidence.





Figure 18: SafeCREW Analytical Protocols, SafeCREW Final report (Copyright TUTTECH)

## 5. Analysis of communication and dissemination and plan beyond the project

SafeCREW pursues the vision that drinking water continues to meet high-quality standards for all EU consumers despite the effects of climate change, by supporting water utilities in climate-resilient management procedures for safe disinfected and non-disinfected water supply systems. It aims to support the novel EU Drinking Water Directive (DWD) by generating advanced knowledge and developing tools and guidelines. SafeCREW's communication and dissemination activities as well as clustering activities were designed to support the broad uptake of the solutions and technologies which have been delivered in the course of the project. The final period of the project was dedicated to aggregating and consolidating the SafeCREW results, stimulating the uptake of solutions by water utilities and preparing the exploitation, in close and fruitful cooperation with the ZeroPollution4Water Cluster.

The dissemination activities continued the training of water professionals in three webinars, focussing especially on Ukrainian water utilities (in Ukrainian language, partly in cooperation with Hamburg Wasser and Berliner Wasserbetriebe). The new knowledge transferred to the Ukraine by NUWEE met high interest and active discussion among the 160 participants from more than 20 Ukrainian water utilities. In parallel, engagement with the stakeholders in working groups, confidential meetings and scientific conferences was continued reaching more than 2,000 professionals from utilities, regulators and policy makers in active discussions reflecting the demand for the SafeCREW solutions as well as the continuous need for adapting them to the specific boundary conditions of each of the water utilities. Several water utilities are explicitly interested in exploring future cooperation in testing the applicability or implementation of the solutions. Interaction with European policy makers and the WHO Regional Office for Europe stressed the need to avoid over-regulation, focus on guidelines addressing relevant health risks, and ensure data sharing to enhance model confidence.

The goals to ensure visibility and disseminate the results have been fully achieved, enabling measurable impact beyond the period. SafeCREW helped to onboard new projects to the ZP4W Cluster, thus ensuring the future engagement of the cluster beyond the duration of the seven founding projects. All partners will embed the results of SafeCREW into their own research and development agenda. Thus, dissemination of the SafeCREW results will also be continued beyond the project to support the exploitation roadmap for each partner. In the next three months, one workshop in western Ukraine and one workshop between KWB and Berliner Wasserbetriebe will identify concrete future



research directions for the local and regional stakeholders from the SafeCREW results. Another presentation of SafeCREW results to European drinking water regulators is planned for autumn 2026, as UBA will host the next ENDWARE meeting in Berlin. The two SafeCREW utilities MM and CAT will continue the implementation activities already started and will continue sharing their experiences in regional working groups with utilities, regulators and authorities. Dissemination and preparing of the market for their products is in the self-interest of SafeCREW companies BDS and MSS and the technology centres DVGW-TUHH, EUT and KWB are embedding the SafeCREW results in their consultancy services; EUT is especially working towards contracts with Spanish water utilities to implement the DBP Risk Explorer, the DWDN management tool based on chemical risk assessment QCRA and DBP prediction models developed during the project. NUWEE will also continue with informing their Ukrainian authorities and regulators to promote EU standards in drinking water management. The recordings and shownotes of the five training webinars for water professionals are available on [Zenodo](#) and have been offered to the [European Water Academy](#). This is also planned for the MOOC. NUWEE has embedded the SafeCREW results into their university curricula, as a means to educate future water professionals on future proof drinking water monitoring and treatment. More high-quality scientific publications are currently under preparation by all partners and will boost the visibility in the relevant scientific community. To stimulate interest for future collaboration and exploitation beyond the project, key results of SafeCREW have been published on the [Horizon Results Platform](#).

The screenshot displays the 'EU Funding & Tenders Portal' interface. The search results for 'SafeCREW' show 4 items found. The first item is 'Cellulose-based nanosponges to adsorb DBP precursors - a sustainable alternative to active carbon'. The image includes a diagram of the nanosponge process and a chemical reaction diagram for the Oxygen Reduction Reaction (ORR) on a Working Electrode.

**Cellulose-based nanosponges to adsorb DBP precursors - a sustainable alternative to active carbon**

SafeCREW - Climate-resilient management for safe disinfected and non-disinfected water supply systems

**Chemical Reaction Diagram:**

$$2 \text{H}_2\text{O} + \text{O}_2 + 4\text{e}^- \rightarrow 4 \text{OH}^-$$

Oxygen Reduction Reaction (ORR) Working Electrode

Figure 19: Screenshot from Horizon Results Platform, search "SafeCREW" displaying first of four items found (17 April 2026)

The website as a means of communication and access will remain online for the duration of further two years to facilitate access to the results and the consortium for interested parties beyond the project. In addition, the public Final Report (deliverable D5.4) summarises the results as a means for knowledge transfer beyond the project duration and measures have been taken to store relevant documents and data on permanent open access repositories, especially the [SafeCREW community on Zenodo](#) in addition to [CORDIS](#).



## 6. Conclusion

The final summary of SafeCREW's clustering, dissemination, and communication activities reviews the progress from 1 April 2025 to 31 March 2026 and outlines dissemination plans beyond the project. In this final project year, the new analytical methods to characterise NOM and DBP comprehensively were applied and tested in the case studies and the monitoring campaigns and the development of novel treatment processes to improve the removal of DBP precursors and DBPs were concluded. Strategies for safe drinking water distribution, tools to address challenges in managing distribution networks, risk assessment frameworks, guidelines, and policy briefs were finalised. Communication efforts continued to promote the project and Horizon Europe funding, while dissemination and training for water professionals intensified. The onboarding of twelve new EU-funded projects into the ZeroPollution4Water Cluster strengthened cooperation, creating synergies and significantly expanding the outreach and policy impact of all cluster projects.

SafeCREW's website and social media supported the visibility of the project and informed about events and results, with resource downloads increasing notably. The interaction with key stakeholders, e.g., regional, national and European water utilities, their associations and authorities through working groups, workshops and webinars have engaged over 2,000 water professionals from research, utilities, industry and policy, extending beyond the cluster's geographical scope. Public engagement raised citizen awareness of climate change adaptation needs in drinking water supply.

The final communication and clustering activities helped translate SafeCREW results into practice, supporting climate-resilient management of safe disinfected and non-disinfected water systems. Collaboration within the ZeroPollution4Water Cluster enhanced outreach to European and international audiences and boosted impact on policy and technology development. Beyond the project, SafeCREW partners will continue to develop and valorise innovations through research cooperation, implementation projects, or commercialisation, with dissemination maintained via networking, conferences, fairs, and publications.



## Annex - Tables documenting the communication and dissemination activities

Table 2: KPIs for communication channels (numbers achieved in black, numbers planned in grey)

| KPI for communication     | Phase I (M1-12)                         | Phase II (M13-M18/30)                  | Phase III (M30-42)                     | Overall          | Targeted audience |
|---------------------------|-----------------------------------------|----------------------------------------|----------------------------------------|------------------|-------------------|
| Website views             | 1565 (42 per week) / 300                | 5268 (67 per week) / 700               | 5358 (112 per week) / 1000             | 12,191/ 2000     | All stakeholders  |
| LinkedIn posts / X-tweets | 28/68 / (12/24)                         | 53/85 / (18/45)                        | 62/ 92 / 12/36                         | 143/245 / 42/105 | All stakeholders  |
| Posts or press releases   | 14 website posts/ 1 press release (2/1) | 36 website posts/1 press release (6/1) | 44 website posts / 1 press release 6/2 | 94/ 14           | All stakeholders  |
| Video views               |                                         |                                        | Video 1: 92, Video 2: 88 (300)         | 200/ 300         | All stakeholders  |
| Number of key activities  | 10/ 5                                   | 14/ 7                                  | 16/ 7                                  | 40/ 19           | All stakeholders  |

Table 3: Public engagement (1 April 2025 – 31 March 2026)

| Activity                                                                                     | Period          | Topic                                                                                                                                                                                                                                                                                                                                                                                                                                         | Targeted stakeholder groups                       |
|----------------------------------------------------------------------------------------------|-----------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------|
| NUWEE university project “Week of Dreams” (in career guidance activity framework)            | 2 April 2025    | Master class on water quality analysis in water supply systems; in the hydrochemical laboratory of the Department of Water Supply, Sewerage and Drilling. S. Y. Martynov introduced the students to modern spectrophotometric equipment and performed measurements of the UV254 parameter, which is used to assess organic matter in water. A DR6000 spectrophotometer, purchased within the SafeCREW project, was used for the measurements. | Graduating school students from the city of Rivne |
| Taller de tast d'aigües i debat (Water tasting workshop and debate), Terrassa, Spain         | 9 April 2025    | Talk of Ramon Perez (EUT) in this event organised by UPC Sostenible i Observatori de l'Aigua de Terrassa and the UPC-TAIGUA Chair, presenting the objectives of SafeCREW, with the aim to inform, educate and engage citizens about safe drinking water.(25 participants)                                                                                                                                                                     | General public                                    |
| Presentation of SafeCREW at <a href="#">Hamburger Horizon @ TUHH</a> - Science meets society | 5 November 2025 | The TUHH programme: “Water, the liquid that combines nature and technology” comprised a poster exhibition, lab tours and short presentation. DVGW-TUHH presented an SafeCREW overview on a poster and the project was also featured in the oral presentation on the work of DVGW-TUHH (30 participants).                                                                                                                                      | General public                                    |



| Activity                                                                                                                 | Period                  | Topic                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Targeted stakeholder groups                                    |
|--------------------------------------------------------------------------------------------------------------------------|-------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------|
| Presentation of SafeCREW at Tutech's Open Day during Hamburg's month of city-owned companies (Monat der Stadtwirtschaft) | 18 November 2025        | Margarete Remmert-Rieper (TUTECH) talked about the objectives of the project during an intense Walk & Talk Open Day, featuring the current safety of tap water, the challenges of climate change on drinking water quality and the European dimension of the case studies (10 participants)                                                                                                                                                                                             | General public                                                 |
| Women science day participation (participations in school journey)                                                       | 11 February 2026        | International Day of Women and Girls in Science (focus UN SDG): Laura Vinardell, PhD candidate at EUT explained her research about DBP prediction in DWDN to students at "Escola Dolors Almeda" (Cornellà de Llobregat, Spain)" and acted as role model. The Catalan Foundation for Research and Innovation (FCRI) promotes the initiative "Girls in Science" to inspire young women to pursue careers in STEM. This includes talks, workshops, and events featuring female scientists. | Female students in water science                               |
| Women science day participation (participations in school journey)                                                       | 11 February 2026        | International Day of Women and Girls in Science (focus UN SDG): Irene Jubany, researcher at EUT explained the research done in SafeCREW about DBP in DWDN to students at "Escola Segimon Comas " (Sant Quirze de Besora, Sapin) and acted as role model. The Catalan Foundation for Research and Innovation (FCRI) promotes the initiative "Girls in Science" to inspire young women to pursue careers in STEM. This includes talks, workshops, and events featuring female scientists. | Female students in water science                               |
| Water Day. Round table about water management                                                                            | 27 March 2026           | Sandra Casas (EUT) and Josep-Xavier Pujol (CAT) participated in a roundtable about water organised by "Diari de Tarragona". The roundtable centred around innovations addressing growing challenges to water supply in the Tarragona region.                                                                                                                                                                                                                                            | General public                                                 |
| Video 1: <a href="#">Securing future proof drinking water supply</a>                                                     | Published 16 March 2026 | The video "Securing future proof drinking water supply" introduces the work of SafeCREW to tackle climate change related challenges. It presents the diverse SafeCREW case study sites in Germany, Italy, Spain, and western Ukraine, each with unique backgrounds and solutions.                                                                                                                                                                                                       | General public, consumers, 92 views by 31 March 2026           |
| Video 2: <a href="#">Part II - Advancing climate resilient drinking water management</a>                                 | Published 16 March 2026 | The video, "Part II - Advancing climate resilient drinking water management," highlights SafeCREW's strategies to help water utilities enhance climate resilience. The twelve SafeCREW partners present the solutions they are developing in the project and the applicability of these solutions by water utilities or policy makers.                                                                                                                                                  | Water professionals, general public, 83 views by 31 March 2026 |



Table 4: Contributions to scientific conferences and fairs

| Event type / Conference                                                                                                                                                                                                                    | Focus. target group, number of participants                                                                                                                                                                                                                                               | Project month    | Representation of SafeCREW                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 5th All-Ukrainian Scientific and Technical Online Conference “New Trends in Urban Construction and Management”; Department of Urban Construction and Economy of the National University of Water Management and Natural Resources, Ukraine | The main goal and mission of the scientific and technical conference was to exchange experience, discuss and analyse the scientific issues related to urban development and reconstruction.                                                                                               | 23-25 April 2025 | Martynov S. Yu., Klimov S. V., Kunytskyi S. O.: Monitoring of water quality in municipal water supply systems. In Abstracts of the 5th All-Ukrainian Scientific and Technical Online Conference “New Trends in Urban Construction and Management,” Vol. 1, April 23-25, 2025, NUWEE, Rivne, p. 47.                                                                                                                                                                                       |
| Conference “ <a href="#">Innovacion en la digitalizacion del ciclo del agua en el marco del perte retos y aprendizajes</a> ”                                                                                                               | Event “Innovation in the digitization of the water cycle within the framework of the PERTE challenges and learnings” organised by the Water Utility of Manresa about digitalization projects in the water sector. Utilities from all over Spain attended.                                 | 9 May 2025       | CAT and EUT:<br>1) CAT presented their digitalisation project including SafeCREW activities<br>2) EUT was in a round table about opportunities for the sector after digitalisation projects and explained part of the SafeCREW results.                                                                                                                                                                                                                                                  |
| SETAC 2025 (SETAC Europe 35th Annual Meeting)                                                                                                                                                                                              | Society of Environmental Toxicology and Chemistry ( <a href="#">SETAC</a> ) is dedicated to advancing environmental science and science-informed decision-making; < 2500 participants                                                                                                     | 11-15 May 2025   | Oral platform presentation delivered (Maolida Nihemaiti, UFZ):<br>“Identification of novel highly polar sulfonated disinfection by-products in drinking water using supercritical fluid chromatography-high resolution mass spectrometry”                                                                                                                                                                                                                                                |
| GDCh Gesellschaft Deutscher Chemiker Conference „ <a href="#">Wasser 2025</a> “, Münster, Germany                                                                                                                                          | GDCh conference "Wasser 2025", WASSER is the central German conference that presents the latest findings on the topic of water. Water quality, drinking water analysis                                                                                                                    | 26-28 May 2025   | 3 oral presentations delivered:<br>1) Maolida Nihemaiti (UFZ) et al., Occurrence of novel highly polar sulfonated disinfection by-products in drinking water<br>2) Jon Wullenweber, et al. (DVGW-TUHH), Electrochemical Regeneration of Membrane Adsorbers for the Removal of Disinfection By-product (DBP) Precursors in Drinking Water Treatment<br>2) David Langenbach, et al. (UBA), Formation of disinfection by-products from materials in contact with chlorinated drinking water |
| 5th International Scientific Conference « <a href="#">Chemical Technology and Engineering</a> ». Ukraine, Lviv : National University «Lviv Polytechnics»                                                                                   | Biannual Conference: foster scientific exchange, strengthen joint research cooperations; theoretical and applied knowledge. Topics: Computer simulation in the chemical technology and engineering, green chemistry, Ecology and sustainable development. Environmental protection et al. | 23-26 June 2025  | Poliakov, V., & Martynov, S. <a href="#">On techno-economic analysis of rapid filtration of groundwater with high iron content</a> (abstract in English)                                                                                                                                                                                                                                                                                                                                 |



| Event type / Conference                                                                                            | Focus. target group, number of participants                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Project month          | Representation of SafeCREW                                                                                                                                                                                                                                                                                                                                                                                                                   |
|--------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 7th IWA International Conference" on Eco-Technologies for Wastewater Treatment, Stockholm, Sweden                  | <a href="#">ecoSTP2025</a> brings together researchers and professionals from the water sector with the aim of discussing cutting-edge technologies in water treatment, including water, energy and materials recovery tools, sustainability and government management mechanisms.                                                                                                                                                                                                                                                                                              | 23-26 June 2025        | Oral presentation by Marta Mulet (CAT): Development and implementation of predictive model to optimise the coagulation and flocculation stage of the Ampolla DWTP."                                                                                                                                                                                                                                                                          |
| 5 <sup>th</sup> International Scientific Conference "Chemical Technology and Engineering – 2025", Ukraine, Lviv,   | Biannual Conference: foster scientific exchange, strengthen joint research cooperations; theoretical and applied knowledge. Topics: Computer simulation in chemical technology and engineering, green chemistry, ecology and sustainable development, environmental protection et al.                                                                                                                                                                                                                                                                                           | 24-26 June 2025        | Poliakov, V., & Martynov, S. "On techno-economic analysis of rapid filtration of groundwater with high iron content"                                                                                                                                                                                                                                                                                                                         |
| <a href="#">15th Biodefectors Conference</a> , Genoa, Italy                                                        | Targeted at scientists involved in the development and application of in vitro effect-based bioanalysis technologies; users of biodefectors; 90 participants (40 live, 50 online).                                                                                                                                                                                                                                                                                                                                                                                              | 26-27 June 2025,       | BDS is organiser of the annual BioDefectors Conference and delivered an oral presentation: EU SafeCREW project for evaluation of disinfection by-products (DBPS) and related water sources using a panel of effect-based bioassays; (P. Behnisch, et al.);                                                                                                                                                                                   |
| 14th IWA International Conference on Instrumentation, Control and Automation (ICA), Oslo, Norway                   | International forum to exchange knowledge, methodologies, and experience on all aspects of ICA for water/ wastewater treatment and transport. Topics include sensors and instrumentation systems, online monitoring and control, modelling and simulation, early warning, information systems, decision support, risk assessment, big data, internet of things and smart water systems.<br><br>The conference will demonstrate the harmony between the universities, city authorities, water utilities, industries around the ICA with remarkable international collaborations. | 29 June to 2 July 2025 | Serhii Martynov and Alla Kucherova attended the 14th IWA International Conference on Instrumentation, Control and Automation (ICA), which took place from 29 June to 2 July 2025 in Oslo. A poster presentation was delivered, highlighting the support provided by the SafeCREW project. A meeting was also held with the conference organiser, Professor Harsha Ratnaweera, during which information about the SafeCREW project was shared |
| XXVII JORNADAS DE CALIDAD DE AGUAS Y CONTROL DE PROCESOS, Hotel Best Western Marina - Las Condes - Santiago, Chile | Event organised by a local distributor of MSS; information of customers about product developments; 70 participants.                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 5 September 2025       | Gabry Ostuni (MSS): presentation about MSS's products and latest developments, including THM analysis and MSS's work in SafeCREW                                                                                                                                                                                                                                                                                                             |
| IWA MTC2025, Seoul/Daegu, South Korea                                                                              | 11th IWA Membrane Technology Conference ( <a href="#">MTC 2025</a> ) on latest advancements and innovations in membrane technology for water and wastewater treatment and reuse.                                                                                                                                                                                                                                                                                                                                                                                                | 13-18 September 2025   | Oral presentation: Jon Wullenweber (DVGW-TUHH)                                                                                                                                                                                                                                                                                                                                                                                               |



| Event type / Conference                                                                                                                                                                                             | Focus. target group, number of participants                                                                                                                                                                                                                                                                                                                                                                               | Project month        | Representation of SafeCREW                                                                                                                                                                                                                                                                                                                                                                               |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <a href="#">EUROTOX</a> - 59th Congress of the European Societies of Toxicology                                                                                                                                     | Annual; European Toxicology Conference; 1500 toxicologist, policy makers, regulators, Non-animal based professionals, technicians, academia, general public. GLOBAL coverage aiming for scientific breakthrough presentations; EUROTOX 2025 Congress: "Toxicology addresses society's real-life risks for sustainable health and well-being."                                                                             | 14-17 September 2025 | Peter Behnisch (BDS): Poster presentation: P. Behnisch et al., "EU Safe Crew project for evaluating organohalogens (e.g. PFAS, DBPs) in drinking water in Milano (Italy) by using a panel of effect-based bioassays"                                                                                                                                                                                     |
| <a href="#">9th Late Summer Workshop on Water resources under stress of climate change</a> ; Waterworks Langenau, Germany                                                                                           | Designed for doctoral candidates (PhDs) and postdocs in the early stages of their careers; 50 participants;                                                                                                                                                                                                                                                                                                               | 21-24 September 2025 | Oral platform presentation by Maolida Nihemaiti (UFZ): "Occurrence of regulated and novel disinfection by-products in a drinking water distribution network".                                                                                                                                                                                                                                            |
| 6th International Scientific and Technical Conference "Water Supply and Wastewater Disposal: Designing, Construction, Operation, and Monitoring.", Lviv Polytechnic National University. Ukraine, remote conference | The conference is dedicated to water supply, wastewater treatment, water purification, economy of water and wastewater management; influence of elements of water and wastewater management systems on the natural environment et al. Promotion of the development of cooperation between universities, research institutions and industrial enterprises and to integrate international science, education and economics. | 15-17 October 2025   | Martynov S., Klimov S. Specific features of identifying hazards and hazardous events in the development of a water safety plan for water supply systems. In <i>Proceedings of the 6th International Scientific and Technical Conference "Water Supply and Wastewater Disposal: Designing, Construction, Operation, and Monitoring."</i> Lviv Polytechnic National University, Lviv, October 15-17, 2025. |
| <a href="#">H2OforAll Final Event</a> , Department of Chemical Engineering, University of Coimbra (Portugal)                                                                                                        | Presenting the project's achievements in advancing the understanding, monitoring, and control of <b>disinfection by-products (DBPs)</b> in drinking water, including presentation from ZP4W Cluster sister projects; over <b>60 participants</b> from across Europe and abroad, including consortium partners, researchers, water utilities, regulators, and members of the public.                                       | 23-24 October 2025   | 6 presentations by 6 partners (BDS, CAT, DVGW-TUHH, EUT, TUTECH, UFZ), plus contribution to panel discussion and exhibition                                                                                                                                                                                                                                                                              |
| <a href="#">DIOXIN 2025</a> : 45th International Symposium on Halogenated Persistent Organic Pollutants (POPs), Antalya, Turkey                                                                                     | Conference aims to advance knowledge and tackle challenges related to halogenated POPs and share innovations in both legacy and emerging POPs.                                                                                                                                                                                                                                                                            | 1-6 November 2025    | Oral presentation: Peter Behnisch (BDS) et al "EU SAFE CREW project for evaluating organohalogen compounds (e.g. PFAS, DBPs) in drinking water in Milano (Italy) by using a panel of effect-based bioassays"                                                                                                                                                                                             |
| <a href="#">Drinking Water Quality Europe</a> , Amsterdam (Netherlands)                                                                                                                                             | A WWT event uniting water sector leaders and industry experts to showcase best practices to ensure water quality: Insights into DWD, PFAS, consumer trust, innovative treatment approaches, water quality strategies                                                                                                                                                                                                      | 5-6 November 2025    | Mathias Ernst (DVGW-TUHH): Invited lecture "Data analysis to assess climate change impacts on drinking water quality" (Surface water quality trends and impact on treatment) (6 Nov 2025, 10 a.m.) in the session "Securing water supply for future generations"                                                                                                                                         |



| Event type / Conference                                                                                                                                                                                      | Focus. target group, number of participants                                                                                                                                                                                                                                                                                                                                                                              | Project month      | Representation of SafeCREW                                                                                                                                                                                                                                                                                                                                                                                                                      |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 8th International Scientific and Practical Conference “ <a href="#">Modelling, Control, and Information Technologies</a> ,” Rivne, NUWEE, November 2025.                                                     | The conference aims to address hydroinformatics and water resources management, software engineering and information technologies, IoT and artificial intelligence, cyber and information security, mathematical, computer modelling and computational methods, digital Solutions for the environment, et al..                                                                                                           | 6- 8 November 2025 | Klimov, S., Martynov, S., Kunitskyi, S., & Kupchyk, L.: “Risk and hazard analysis of riverbank filtration water intakes for water safety planning, in: <a href="https://doi.org/10.31713/MCIT.2025.002">https://doi.org/10.31713/MCIT.2025.002</a> (in English)                                                                                                                                                                                 |
| International Conference “ <a href="#">Water Technologies: From Traditional Methods to Modern Trends</a> ,” National Technical University of Ukraine “Igor Sikorsky Kyiv Polytechnic Institute,” Kyiv,       | The conference program covers the key areas of water industry development: new challenges in water management, digitalisation of processes, application of the latest materials and technologies in water treatment, ecologisation of centralised and local treatment schemes, as well as modern trends and solutions in wastewater treatment that help reduce environmental impact and increase water usage efficiency. | 28-30 October 2025 | Martynov, S., Kucheroва, A., & Klimov, S.: “Monitoring water quality in water supply systems” in: <a href="https://membrane-su.org/files/abstracts_2025.pdf">https://membrane-su.org/files/abstracts_2025.pdf</a> (in Ukrainian)                                                                                                                                                                                                                |
| 32. Mülheimer Wassertechnisches Seminar (MWTS)                                                                                                                                                               | Water Technology Seminar: Drinking water treatment amid increasing demands; platform for discussing current challenges and innovative solutions in drinking water treatment.                                                                                                                                                                                                                                             | 6 November 2025    | Oral presentation Jon Wullenweber (DVGW-TUHH): „Weitergehende DOC/NOM Charakterisierung und Online-Überwachung: Neue Erkenntnisse aus dem EU-Projekt SafeCREW                                                                                                                                                                                                                                                                                   |
| Cellulose and beyond - From production to application, Girona, Spain                                                                                                                                         | The symposium targeted the scientific community and gathered researchers working on cellulose and its applications across different technological fields; 30 participants                                                                                                                                                                                                                                                | 28 November 2025   | Oral presentation by Carlo Punta (POLIMI): “Safe and sustainable by design nanocellulose-based solutions for water treatment...and beyond”                                                                                                                                                                                                                                                                                                      |
| Merck Young Chemists’ Symposium ( <a href="#">MYCS</a> ) - XXIV Edition, Rimini, Italy                                                                                                                       | Annual international event of Società Chimica Italiana (SCI) targeting young chemists in academia and industry, organised by the Young Group of Società Chimica Italiana (SCI Giovani) and the National Interuniversity Consortium of Materials Science and Technology (INSTM). All disciplines of Chemistry covered; 250 participants                                                                                   | 1-3 December 2025  | Poster presentation by Laura Riva (POLIMI): “Green cellulose-based nanomaterials for the improved monitoring of water microbiological quality”                                                                                                                                                                                                                                                                                                  |
| International Scientific-Practical Conference “Multifunctional Eco- and Energy-Efficient, Resource-Saving Technologies in Architecture, Construction, and Related Fields”, December 3–5, 2025, Kyiv, Ukraine |                                                                                                                                                                                                                                                                                                                                                                                                                          | 3-5 December 2025  | Martynov, S., Klimov, S., & Kucheroва, A.: “Hazard identification and assessment in water supply systems” in: Program and Proceedings of the International Scientific-Practical Conference “Multifunctional Eco- and Energy-Efficient, Resource-Saving Technologies in Architecture, Construction, and Related Fields”, December 3–5, 2025, Kyiv, Ukraine: Kyiv National University of Construction and Architecture, pp. 61–62. (in Ukrainian) |



| Event type / Conference                                                                                                                                                           | Focus. target group, number of participants                                                                                                                                                                                                                                                                                                                                           | Project month    | Representation of SafeCREW                                                                                                                                                                                                                                                     |
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| Meeting at the UNU-Hub, Hamburg, Germany                                                                                                                                          | The UNU Hub on Engineering to Face Climate Change at TUHH connects the United Nations University with the TUHH to foster research, innovation, and sustainable development initiatives. 100 local and international researchers and the science minister of Hamburg.                                                                                                                  | 23 January 2026  | Poster presentation by Anissa Grieb (DVGW-TUHH): Presenting SafeCREW to the research community at the UNU Hub at TUHH,                                                                                                                                                         |
| 29 <sup>th</sup> Trinkwasserkolloquium an der TUHH (Drinking Water Colloquium at TUHH), Hamburg, Germany                                                                          | Innovative DW treatment methods and topics related to water quality; 100 representatives from German water utilities, public authorities including health departments, academia, University Group of DVGW (students).                                                                                                                                                                 | 12 February 2026 | DVGW-TUHH has been organiser; one session with 2 lectures given in German was dedicated to SafeCREW a) Anissa Grieb (DVGW-TUHH) with an overview about SafeCREW results; b) Mathias Ernst (DVGW-TUHH) on a chemical-free filtration method for NOM-removal from drinking water |
| 59. <a href="#">Essener Tagung</a> 2026, Essen, Germany                                                                                                                           | The “Essener Tagung” on water management is one of the most important events in the field of water management in Germany. Up to 1000 participants are attending each year, from students to water experts.                                                                                                                                                                            | 4-6 March 2026   | DVGW-TUHH (M. Ernst) presented SafeCREW core outcomes                                                                                                                                                                                                                          |
| 1st All-Ukrainian Scientific and Practical Conference “Water Resources: Current Status, Efficient Technologies for Rational Use, and Protection” Chernihiv (northeastern Ukraine) | Online conference; organised by Ministry of Education and Science of Ukraine, six Ukrainian higher education institutions, the State Environmental Inspectorate in the Chernihiv region, and the Desna Basin Water Resources Management Authority. Dedicated to the World Water Day.                                                                                                  | 24 March 2026    | NUWEE presented “Integration of EU Practices into Ukraine’s Water Supply Systems.” Focus on promoting the SafeCREW project. The conference abstracts available.                                                                                                                |
| SafeCREW Final Conference, Hanse Office, Brussels, Belgium                                                                                                                        | Stimulating exchange about SafeCREW achievements on advanced knowledge, new tools and guidelines for disinfected and non-disinfected drinking water supply systems, including presentation from ZP4W Cluster sister projects; over 59 registrations (48 participants) from across Europe, including consortium partners, researchers, water utilities, regulators, and policy makers. | 26-27 March 2026 | Organised by DVGW-TUHH and TUTECH; 7 oral presentations by EUT, UFZ, POLIMI, UBA, DVGW-TUHH, NUWEE; plus 5 invited talks (by MEPs, WHO, intoDBP and H2OforAll); plus a panel discussion with DG RTD.                                                                           |
| <a href="#">2nd International conference on circularity, sustainability and resilience in water, wastewater and sludge management (CSRW)</a>                                      | Addressing critical challenges in environmental sustainability, the conference explores innovative approaches to improving water quality, resource recovery, and ecological protection.                                                                                                                                                                                               | 1 April 2026     | Outcomes of SafeCREW studies on Membrane Adsorbers for selective Removal of Natural Organic Matter (NOM) and their Electrochemical Regeneration were presented on 2 <sup>nd</sup> CRWS Conference in Thessaloniki.                                                             |
| Water Market Europe 2026 ‘ <a href="#">Digital Twins, Data Governance &amp; AI</a> ’                                                                                              | Water Market Europe (WME) 2026, co-organised by Water Europe and supported by EU- project IDEATION; platform to address Digital Twins Action in accelerating market uptake in the Water Sector.                                                                                                                                                                                       | 16 April 2026    | Serhii Klimov and Serhii Kunytskyi attended.                                                                                                                                                                                                                                   |



| Event type / Conference                                                                                                         | Focus. target group, number of participants                                                                                                                                                                                                                                                                                                                                                                                              | Project month       | Representation of SafeCREW                                                                                                                                                                                                                                                                                                             |
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| GDCh Gesellschaft Deutscher Chemiker Conference „Wasser 2026“, Kiel, Germany                                                    | GDCh conference "Wasser 2026", WASSER is the central German conference that presents the latest findings on the topic of water. Water quality, drinking water analysis                                                                                                                                                                                                                                                                   | 11-13 May 2026      | Maolida Nihemaiti ( UFZ) , poster presentation with 3-minute poster pitch, title: “Novel Sulfur-Containing Disinfection By-Products in Chlorinated and Chloraminated Drinking Water”                                                                                                                                                   |
| DAQUAS 2026 Madrid, Madrid, Spain                                                                                               | 38th edition of the Congress of Spanish Association of Urban Water (DAQUAS), latest developments on water technologies, e.g. related to water supply systems; 1000 participants                                                                                                                                                                                                                                                          | 3 June 2026         | 1) Noemi Benavente (CAT); written Más allá del cultivo microbiano: innovación microbiológica con citometría de flujo en red del CAT – share SafeCREW results<br>2) Aleix Martorell (CAT) (written) Del Ebro al grifo: ciencia, datos y estrategia para una desinfección segura en tiempos de cambio climático – share SafeCREW results |
| 2nd Young Water Professionals European Conference, Milan, Italy;<br><a href="https://ywpeu2026.com/">https://ywpeu2026.com/</a> | This event will bring together more than 250 young and senior water professionals from across Europe and beyond, to showcase innovation, and foster collaboration across science, industry, utilities, and policy; topics include: innovations in water treatment; digital tools, AI & cybersecurity for smarter water systems; governance, policy, and risk assessment, climate resilience and integrated water cycle management et al. | 14-17 June 2026     | 1) Bruno Ursino: abstract for poster presentation submitted - Presentation of results relating to task 2.6<br>2) Marco Matracchi: abstract for oral presentation submitted – on whether cluster analysis permitted a representative selection of sampling points in a complex drinking water distribution network.                     |
| The Gordon Research Conference on Environmental Science: Water Holderness, New Hampshire, United States                         | Water GRC focuses on cutting-edge, unpublished research in environmental science, addressing water quality, contaminants, pathogens, and access to clean water. It bridges science, policy, and community engagement to foster collaboration and innovative solutions.                                                                                                                                                                   | 14-19 June 2026     | Thorsten Reemtsma (UFZ), keynote speaker, presentation title: “The Unwanted Circularity of Persistent and Mobile Chemicals”.                                                                                                                                                                                                           |
| <a href="#">16th Biodetectors Conference</a> , Stockholm, Sweden                                                                | Targeted at scientists involved in the development and application of in vitro effect-based bioanalysis technologies; users of biodetectors;                                                                                                                                                                                                                                                                                             | 25-26 June 2026     | BDS is organiser of the annual BioDetectors Conference and will deliver an oral presentation about SafeCREW results:                                                                                                                                                                                                                   |
| Challenges in Environmental Science and Engineering CESE 2026                                                                   | Conference that joins researchers, policymakers, academics, students, and members of the community who are passionate about finding sustainable solutions to environmental issues, specifically targeting participants of Asia.                                                                                                                                                                                                          | 23-27 November 2026 | Nirmal Kumar Shahi (new post-doc at EUT).                                                                                                                                                                                                                                                                                              |



Table 5: Key dissemination activities in the second period (1 November 2023 – 31 March 2026)

| Activity                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Period                                       | Topic                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Targeted stakeholder groups                                                                                                                                                                      |
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| <p>Dissemination activities until October 2023 have been reported in D5.6 Summary of communication and clustering activities in year 1; dissemination activities between 1 November 2023 – 14 April 2025 have been reported in D5.7 Midterm review of communication and dissemination activities and plans.</p> <p><b>Focus groups, seminars and workshops:</b><br/> Aim: 3 focus groups, 3 seminars or workshops during 42 months.<br/> Targeted stakeholder groups: European water professionals from utilities, water technology providers, regulatory bodies, policy makers, researchers</p> |                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                  |
| <b>Focus groups #3</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 23 January 2026 (M39)                        | “Feedback on SafeCREW results and knowledge transfer to European water utilities”; organised by DVGW-TUHH together with EurEau: dedicated online meeting with an introduction by Anissa Grieb DVGW-TUHH and presentations on “Water Quality Monitoring in Waterworks: Current Challenges” (Manuela Antonelli, POLIMI); “Passive Sampler for pathogen monitoring in distribution networks” (Beatrice Cantoni, POLIMI) and “Development of soft sensors for routine drinking water supply system management” (Francesco Trovò, POLIMI). Exchange about application potential and interest in further results. | EurEau 1 - Drinking water committee;<br>10 European water experts, including lab leaders                                                                                                         |
| <b>Seminars and workshops #3</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | May 2025                                     | At Yuriy Fedkovych Chernivtsi National University; Serhii Martynov delivered open lectures on the water supply system of Spain (Tarragona Water Consortium). The presentations were prepared based on the outcomes of visits to EURECAT and Consorci d'Aigües de Tarragona (CAT).                                                                                                                                                                                                                                                                                                                           | Ukrainian academia                                                                                                                                                                               |
| Seminars and workshops #4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 20 June 2025, together with ZP4W (M30) (M32) | <a href="#">EU Green Week 2025 Partner Event: Unlocking solutions: 32 case studies for zero-pollution drinking and groundwater</a> (online, 10:00-13:00): Presentation of the publication ‘ZeroPollution4Water Cluster: overview and inventory of 32 case studies in drinking and groundwater’, published by the European Commission REA together with ZP4W Cluster in March 2025                                                                                                                                                                                                                           | > 50 participants European Commission (EC), policy makers, public and private water sector, EU projects (plus attendees in the live stream) ( <i>also listed as clustering activity below</i> ). |
| Seminars and workshops #5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | September 2025                               | At Yuriy Fedkovych Chernivtsi National University; Serhii Martynov delivered open lectures on the water supply system of Spain (Tarragona Water Consortium). The presentations were prepared based on the outcomes of visits to EURECAT and Consorci d'Aigües de Tarragona (CAT).                                                                                                                                                                                                                                                                                                                           | Ukrainian academia                                                                                                                                                                               |
| Seminars and workshops #6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 26 March 2026 (M41)                          | SafeCREW Final Conference at the Hanse Office in Brussels, Belgium. Addressing experts from water utilities, policy makers, technology providers and research; presenting all SafeCREW results; including presentation from ZP4W Cluster sister projects and panel discussion ( <i>also listed in table 4</i> ).                                                                                                                                                                                                                                                                                            | 58 registrations (48 participants): DG RTD, REA, EP, water utilities, industry, associations from Europe; SafeCREW consortium                                                                    |
| Seminars and workshops #7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Planned for 21 April 2026                    | Workshop to present the results of the SafeCREW project to the Ukrainian water related community at NUWEE. Topic: “Improving the Safety of Drinking Water Supply in Settlements.”; aimed at identifying future research directions for local and regional stakeholders in Ukraine (in Ukrainian language)                                                                                                                                                                                                                                                                                                   | Ukrainian research community, local and regional authorities, regulatory bodies, policy makers, water associations                                                                               |



| Activity                                                                                                                                                                                                                                                  | Period                                 | Topic                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Targeted stakeholder groups                                                                                                                                                                |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Webinars:</b><br><i>Aim: 5 webinars in 42 months, one of them in Ukrainian language.</i><br><i>Targeted stakeholder groups: European water professionals from utilities, water technology providers, regulatory bodies, policy makers, researchers</i> |                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                                                            |
| Webinar #5                                                                                                                                                                                                                                                | 3 April 2025, together with ZP4W (M30) | <a href="#">‘Preparing drinking water supply systems for climate change – case study insights’</a> : 90 minutes webinar organised by SafeCREW, H2OforAll and intoDBP as fifth common ZP4W Cluster webinar; focus on results in the projects’ case studies. Moderator Mathias Ernst (DVGW-TUHH); Andreu Fargas (CAT) on Managing drinking water treatment to avoid DBP formation (CS#3), Serhii Martynov (NUWEE) on Water Quality monitoring in the Ukraine; training water professionals.                                                                                                                                          | 63 participants; professionals from utilities, EC, regulatory bodies and researchers ( <i>already documented in deliverable D5.7, p. 19, 31</i> )                                          |
| Webinar #6                                                                                                                                                                                                                                                | 30 June 2025 (M32)                     | WOP – NUWEE: Webinar - Part 1 in the frame of Water Operators' Partnership of HW, BWB and Kyivvodokanal: "The water supply situation in west Ukraine: sources, disinfection methods, comparison with EU standards – A SafeCREW case study", 120 minutes, to inform and exchange with Ukrainian water utilities about the SafeCREW approach, Lviv, Kyiv, Odessa and other utilities present. Part I: Overview on project activities and sites (M. Ernst), Water supply sources in western Ukraine (S. Klimov); Water quality monitoring sites (S. Kunitsky). Organised with the support of HW, DVGW-TUHH and Ukrvodokanalekologiya. | > 58 participants from about 10 Ukrainian water supply companies as well as Hamburg Wasser and Berliner Wasserbetriebe                                                                     |
| Webinar #7                                                                                                                                                                                                                                                | 21 July 2025                           | WOP – NUWEE: Webinar Part 2 in the frame of Water Operators' Partnership of HW, BWB and Kyivvodokanal: <i>Part II: Water disinfection methods in Ukraine and promising areas for their development (O. Kuryliuk), Comparison of EU and UA water quality (V. Besediuk).</i> Organised with the support of HW, DVGW-TUHH and Ukrvodokanalekologiya.                                                                                                                                                                                                                                                                                  | > 80 participants from > 20 Ukrainian water supply companies as well as Hamburg Wasser and Berliner Wasserbetriebe                                                                         |
| Webinar #8                                                                                                                                                                                                                                                | 17 March 2026                          | Ukrainian-language webinar on <a href="#">“Water Quality Monitoring in Centralized Water Supply Systems.”</a> Aim: transferring the acquired experience to stakeholders and municipal utilities in Ukraine.                                                                                                                                                                                                                                                                                                                                                                                                                        | 20 participants from the university faculty, two water utilities from Rivne and Zhytomyr regions, and representatives of design and installation companies from Rivne, Zhytomyr, and Kyiv. |
| <b>Clustering activities:</b><br><i>no aim defined in D5.1 PEDR. Targeted stakeholder groups: European policy makers and regulators, utilities, European actors, local/regional actors, research community</i>                                            |                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                                                            |
| Clustering activities (ZP4W): external events #4                                                                                                                                                                                                          | 20 June 2025                           | EU Green Week 2025 partner event <a href="#">“ZeroPollution4Water Cluster: Unlocking solutions: 32 Case Studies For Zero-Pollution drinking and groundwater”</a> ; online; organised by all ZP4W projects; SafeCREW partners TUTECH, BDS and DVGW-TUHH presented. <a href="#">Recording</a> available online                                                                                                                                                                                                                                                                                                                       | 50 participants in the virtual room and additional 1067 people following the live stream ( <i>also listed as “workshop” above</i> )                                                        |
| Clustering activities (ZP4W): external events #4                                                                                                                                                                                                          | 25 June 2025                           | <a href="#">4<sup>th</sup> H2OforAll Workshop</a> “Connecting People & Data for Better Drinking Water Quality and Management” (online); to discuss preliminary findings of H2O4All and the ZeroPollution4Water cluster (25-26 June); on the challenge of DBPs and a comparative analysis of its regulatory frameworks in the EU, Australia, and the USA. SafeCREW partners TUTECH and EUT contributed.                                                                                                                                                                                                                             | > 50 online participants including policymakers, researchers, and water professionals from across Europe and beyond                                                                        |



| Activity                                         | Period                      | Topic                                                                                                                                                                                                                                                                                                                                                                                                               | Targeted stakeholder groups                                                                                                                        |
|--------------------------------------------------|-----------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------|
| Clustering activities (ZP4W): external events #5 | 23-24 October 2025          | <a href="#">H2OforAll Final Event</a> : presentation H2OforAll's achievements in advancing the understanding, monitoring, and control of disinfection by-products (DBPs) in drinking water, including presentation from ZP4W Cluster sister projects. 6 presentations by 6 partners (BDS, CAT, DVGW-TUHH, EUT, TUTECH, UFZ), plus contribution to panel discussion and exhibition ( <i>also listed in table 4</i> ) | > 60 European and international participants: researchers, water utilities, regulators, and members of the public, including H2OforAll consortium. |
| Clustering activities (ZP4W): external events #6 | 11 November 2025 (M37)      | Webinar of ZP4W WG6 " <a href="#">Market Uptake for New Technologies – Lessons from Practice</a> ". Aim: Sharing practices to stimulate market uptake of water related innovation. SafeCREW partner BDS presents roadmap to market uptake for the CALUX bioassays: "Perspectives on overcoming barriers to technology adoption".                                                                                    | European water professionals from academia, industry and authorities; and representatives from the ZP4W sister projects,                           |
| Clustering activities (ZP4W): external events #7 | 4 December 2026 (M38)       | <a href="#">ZP4W Cluster event held in conjunction with the Water Knowledge Europe Winter Edition 2025</a> (WKE 2025) in Brussels. Review of the achievements of the first two years and communication to EU stakeholders; exploring future opportunities for collaboration, incorporating fresh perspectives from the new projects. 5 SafeCREW partners present; contribution to poster session.                   | 150 participants from European Commission (EC), REA, policy makers, water sector, EU projects                                                      |
| Clustering activities (ZP4W): external events #8 | 23 March 2026 (M41)         | ZP4W cluster webinar " <a href="#">Water Resilience &amp; Gender: From Policy to Practice</a> " dedicated to the World Water Day 2026. Bringing together perspectives from across the water and environmental sector to explore how more inclusive approaches can contribute to strengthening resilient water systems in a changing world.                                                                          | All stakeholders: European water professionals from academia, industry and authorities; citizens, NGO, general public                              |
| Clustering activities (ZP4W): policy brief #2    | 29 August 2025 (M34)        | <a href="#">ZP4W Policy Brief #2</a> : "Responding to the challenges of disinfection-by-products to help to ensure trust in tap water" (TUTECH and UBA contributed input from SafeCREW research)                                                                                                                                                                                                                    | EC policy makers;<br>14 downloads from 7 countries only from safecrew.org until 31 March 2026                                                      |
| Clustering activities (ZP4W): policy brief #3    | 27 March 2026 (M41)         | <a href="#">ZP4W Policy Brief #3</a> : "Reinforcing EU Groundwater Policy for Emerging Risk"; developed by six ZP4W projects MAR2PROTECT, NINFA, UPWATER, NIAGARA, SafeCREW and LIFE-CASCADE; advocating for strengthening the protection of groundwater resources in Europe and supporting the effective implementation of the GWD.                                                                                | EC policy makers;                                                                                                                                  |
| Clustering activities (ZP4W): Policy engagement  | Scheduled for 15 April 2026 | Reply to the call of evidence on the WFD by the ZP4W Cluster; joint reply by all ZP4W members; 4000 characters (asking for an improved implementation of the WFD to address the goals of strengthening digital and integrated groundwater monitoring and strengthening Managed Aquifer Recharge (MAR) within the GWD and related policies) plus all 3 Policy Briefs attached                                        | EC policy makers                                                                                                                                   |
| Clustering activities (ZP4W): Publication #2     | November 2025 (M37)         | ZP4W WG6 From research to impact: Ostuni, G. (2025). ZeroPollution4Water Cluster Case Study: Key steps for market uptake of the THM Analyser, Meilman, D. (ed.). <a href="https://zeropollution4water.eu/wp-content/uploads/2025/11/Case-study_final.pdf">https://zeropollution4water.eu/wp-content/uploads/2025/11/Case-study_final.pdf</a> , accessed 10 February 2026.                                           | Water technology providers, innovators, entrepreneurs, researchers                                                                                 |



| Activity                                                                                                                                                                                                                                                                   | Period                           | Topic                                                                                                                                                                                                                                                                                                                                                                                           | Targeted stakeholder groups                                                            |
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| Clustering activities (ZP4W): Publication #3                                                                                                                                                                                                                               | Beyond project                   | ZP4W WG4 Technology and Innovation: Whitepaper “Safe drinking water production in view of global threats including climate change”; coordinated by I. Jubany, EUT. final whitepaper under review, to be published soon.                                                                                                                                                                         | European water professionals from academia, industry and authorities                   |
| <b>Networking with water associations:</b><br><i>Contribution to 2 working group meetings per year in first 3 years &amp; to 1 meeting in final year.</i><br><i>Targeted stakeholder groups: National regulators, utilities, local/regional actors, research community</i> |                                  |                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                        |
| <b>Networking with water associations</b>                                                                                                                                                                                                                                  |                                  | <i>Contribution to 2 working group meetings per year in first 3 years &amp; to 1 meeting in final year.</i>                                                                                                                                                                                                                                                                                     | <i>National regulators, utilities, local/regional actors, research community</i>       |
| #12                                                                                                                                                                                                                                                                        | 24 September 2024 and 15/01/2025 | Bilateral meetings of EUT team with a local utility (Aigües de Manresa) to explore uptake of solutions.                                                                                                                                                                                                                                                                                         | 3 participants from Spanish water utility                                              |
| #17                                                                                                                                                                                                                                                                        | 9 October 2024                   | Round table on project results: “Safe Drinking Water in Ukraine: Access to Information on Water Quality and Water Treatment Methods”. Serhii Martynov presented on the implementation of the course “The Newest Methods of Water Treatment” in the educational process at the National University of Water and Environmental Engineering (NUWEE).                                               | Professors and lecturers at NUWEE ( <i>was not yet documented in D5.7</i> )            |
| #18                                                                                                                                                                                                                                                                        | 17 December 2024 (M26)           | EUT-team: Meeting with FISERSA, the company that supplies water to the city of Figueras, to prepare an offer to implement SafeCREW results in their water management system, Figueras, Spain.                                                                                                                                                                                                   | 5 participants from Spanish water utility                                              |
| #19                                                                                                                                                                                                                                                                        | 27 February 2025 (M28)           | The EUT team attended the inauguration ceremony of the UPC-TAIGUA Chair in Engineering and Urban Water Management, promoted by the water utility TAIGUA. The networking event allowed engagement with representatives from entities related to water management. It resulted in follow-up meetings with the UPC-TAIGUA Chair and TAIGUA to discuss uptake of SafeCREW results, Terrassa, Spain. | 50 participants from water related academia, industry and policy, including executives |
| #20                                                                                                                                                                                                                                                                        | 14 May 2025 (M31)                | EUT-team: Meeting with engineering and consulting company specialised in water management (BGEO) to explain their developments in DBPs modelling and to define ways to exploit SafeCREW results together, Granollers, Spain.                                                                                                                                                                    | 4 participants from Spanish water related company                                      |
| #21                                                                                                                                                                                                                                                                        | 26 May 2025 (M31)                | EUT-team: Meeting with the utility Aigües de Vic to define a project to be submitted in a Spanish call to implement DBPs models (SafeCREW results) in the sites they manage.                                                                                                                                                                                                                    | 5 participants from Spanish water utility                                              |
| #22                                                                                                                                                                                                                                                                        | 10 June 2025 (M32)               | Meeting of Xavier Martínez and Ramon Pérez (EUT) with UPC-TAIGUA Chair to explain SafeCREW results and to explore collaboration options for dissemination of SafeCREW results, Manresa, Spain.                                                                                                                                                                                                  | 2 participants from Spanish applied water research                                     |
| #23                                                                                                                                                                                                                                                                        | 17 July 2025 (M33)               | Meeting of Ramon Pérez (EUT) with a local utility (TAIGUA) to explain EUT developments in DBPs modelling, Terrassa Spain,                                                                                                                                                                                                                                                                       | 2 participants from Spanish water utility                                              |



| Activity | Period                   | Topic                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Targeted stakeholder groups                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
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| #24      | 26 August 2025 (M34)     | Meeting of Manuel Martínez and Laura Vinardell (EUT) with the company KIMEDES to explain EUT's developments in DBPs modelling (Manresa, Spain)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 4 participants from Spanish water related company                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| #25      | 10 September 2025 (M36)  | Meeting of Manuel Martínez (EUT) with Avenec and Aigües de Vic (Manresa, Spain); to explain EUT's developments in DBPs modelling.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 5 participants from Spanish water related company and water utility                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| #26      | 25 September 2025 (M36)  | 2nd online session of the public discussion on the Vision for Integrated Water Resources Management in the Kherson Region, organised with the support of the Association of Ukrainian Cities. Presentation of Serhii Martynov (NUWEE): "Planning for Water Safety Assurance in Water Supply Systems." Introducing SafeCREW and highlighting the importance of developing Water Safety Plans (WSPs) as a key instrument for ensuring drinking water safety. The <a href="#">Association of Ukrainian Cities</a> is the driving force of the reforms that expresses the position of local governance in dialogue with the Ukrainian Government, policy makers, and European institutions. | 56 participants: members of Parliament of Ukraine, Kherson Regional State Administration and territorial communities managing water resources, water utilities from the eastern regions of Ukraine (including the Kherson Water Utility), basin water resources management authorities, research institutions, and civil society activists.                                                                                                                                                                                                 |
| #27      | 30 September 2025 (M36)  | DVGW Working Committee Drinking Water Treatment "NA 119-07-14 AA ", presentation of SafeCREW's main outcomes with respect to DBPs by Mathias Ernst (DVGW-TUHH); focus on formation and occurrence of DBPs and learning from case study sites (meeting at municipal utility DREWAG, Dresden, Germany,).                                                                                                                                                                                                                                                                                                                                                                                  | 10 German representatives from water utilities, water utility associations, health authorities, research centres                                                                                                                                                                                                                                                                                                                                                                                                                            |
| #28      | 23 October 2025 (M32)    | Meeting of Manuel Martínez (EUT) with AITASA (Aigües Industrials de Tarragona, Spain), a company that has been <i>managing the water of the chemical industry</i> . Aim: to explain EUT's developments in DBPs modelling.                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Participants from Spanish water related company                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| #29      | 15-16 January 2026 (M39) | KWB-team (Christoph Sprenger): Internal confidential meeting organised by the Energy and Water Agency-Malta at the GHAIN National Water Conservation Awareness Centre (Malta) to discuss further use of SafeCREW results and develop further research ideas                                                                                                                                                                                                                                                                                                                                                                                                                             | 20 participants from Malta: utilities, policy makers, regulators, water professionals, academia.                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| #30      | 19 March 2026 (M41)      | Meeting of the Scientific Council of the All-Ukrainian Environmental League (AEL): Presentation on SafeCREW results relevant for Ukrainian water supply: " <i>Water Quality Monitoring and Risk Assessment in Centralized Water Supply Systems</i> " (The AEL represents > 260 town and district offices in all regions of Ukraine with more than 10000 members with the aim to improve ecological condition in the country and raise the level of ecological education of people.)                                                                                                                                                                                                     | 50 participants from the All-Ukrainian Environmental League comprising members of the Verkhovna Rada of Ukraine (including the Chair of the Committee on Environmental Policy and Nature Management and the Head of the Subcommittee on Water Protection, Rational Use of Water Resources, and State Environmental Monitoring), State Agency of Water Resources of Ukraine (including its Head), representatives of the All-Ukrainian Environmental League, academic and research institutions, of local environmental control authorities. |



| Activity                                                                                                                                                                                       | Period                       | Topic                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Targeted stakeholder groups                                                                                  |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------|
| #31                                                                                                                                                                                            | 25 March 2026 (M41)          | The <a href="#">UK Water Network</a> Meeting #85; topic DBPs; E. Ranjbar (UBA) was invited based on his publication and contributed “Where does the chlorine go? Modelling its fate and trihalomethane formation in diverse drinking waters.” Series of online thematic meetings for members of the UK Water Network, mostly UK water utilities, which focus on drinking water quality, treatment, catchment and network. Aim of the meeting: facilitate co-operative working and best practice in the water sector, with input from Spain and Germany. | UK water sector: utilities, companies, research institutions.                                                |
| #32                                                                                                                                                                                            | Scheduled for 10 April 2026  | Meeting of Irene Jubany and Xavier Martínez (EUT) with the utility ATL to explain EUT’s developments in DBPs modelling.                                                                                                                                                                                                                                                                                                                                                                                                                                 | Appointment with 3 participants from Spanish water utility                                                   |
| #33                                                                                                                                                                                            | May 2026 (beyond project)    | KWB-team: Presentation of final SafeCREW results in the monthly meeting between Berliner Wasserbetriebe and KWB; exchange and exploring further dissemination and uptake (Berlin, Germany)                                                                                                                                                                                                                                                                                                                                                              | 30 participants from BWB and KWB; internal meeting                                                           |
| <b>Events with regulators, standardisation bodies</b><br><i>Aim: 3 events in 42 months.</i><br><i>Targeted stakeholder groups</i> European Commission (EC), public authorities, DW regulators. |                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                              |
| Events with regulators, standardisation bodies #2                                                                                                                                              | 12-13 May 2025 (M31)         | ENDWARE-Meeting in London, UK; presenter Camilla Beulker (UBA); co-author: Mathias Ernst (DVGW-TUHH). Exchange on SafeCREW’s significance for DWD watch lists; presentation of results on highly polar DBPs. Initiated by UBA, building on the first presentation in May 2023; initiation of a full workshop expanding on the results (to follow in M38); resulting in the appointment of the follow up meeting described below.                                                                                                                        | 20 people: European Commission (EC), public authorities, DW regulators                                       |
| Events with regulators, standardisation bodies #3                                                                                                                                              | 10 December 2025 (M38)       | Exchange on SafeCREW’s results for consideration in DWD watch lists: Presentations of results on sulfonated DBPs and on non-animal effect-based trigger methods for toxicity assessment at an online ENDWARE-meeting; initiated by UBA, building on the first presentations in May 2023 and May 2025; (DVGW-TUHH, UFZ, BDS)                                                                                                                                                                                                                             | 24 people: European Commission (EC), public authorities, DW regulators                                       |
| Events with regulators, standardisation bodies #4                                                                                                                                              | Beyond project (autumn 2026) | Presentation of SafeCREW results in a meeting with drinking water regulators in Berlin in autumn 2026, organised and hosted by UBA.                                                                                                                                                                                                                                                                                                                                                                                                                     | 20 people: European Commission (EC), public authorities, DW regulators                                       |
| <b>SafeCREW Policy Briefs</b><br><i>Aim: 2 policy briefs in 42 months.</i><br><i>Targeted stakeholder groups</i> European Commission (EC), policy makers, public authorities, DW regulators.   |                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                              |
| SafeCREW Policy Brief #1                                                                                                                                                                       | 1 December 2025 (M38)        | <a href="#">Advancing NAM/EBM for the Assessment of Disinfection By-Products and Complex Chemical Mixtures in Drinking Water</a><br><i>The first SafeCREW Policy Brief addresses the toxicity assessment of mixtures of DBPs and other pollutants in drinking water, with a focus on non-animal, effect-based methods.</i>                                                                                                                                                                                                                              | 28 downloads from 12 countries from safecrew.org; 33 views and 12 downloads from Zenodo, until 31 March 2026 |



| Activity                                                                                                                                                                              | Period                 | Topic                                                                                                                                                                                                                                                                                                                                                                                                                                              | Targeted stakeholder groups                                                                                 |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------|
| SafeCREW Policy Brief #2                                                                                                                                                              | 1 February 2026 (M40)  | <a href="#">“Major Outcomes on Disinfection and Disinfection By-Products and Solutions”</a><br><i>This policy brief summarises SafeCREW outcomes on disinfection and disinfection by-products, recommending precautionary attention on emerging DBPs and new treatment and risk assessment approaches to guide drinking water management amid climate change.</i>                                                                                  | 17 downloads from countries from safecrew.org; 12 views and 12 downloads from Zenodo, until 31 March 2026   |
| SafeCREW Policy Brief #3                                                                                                                                                              | 28 February 2026 (M40) | <a href="#">Managing the transition from non-disinfected to disinfected drinking water supply systems”</a><br><i>Based on SafeCREW’s main findings, this policy brief provides evidence-based guidance for transitioning to disinfected drinking water networks, supporting decision makers and utilities in managing DBPs in water treatment and distribution systems.</i>                                                                        | 7 downloads from 4 countries, from safecrew.org; 20 views and 18 downloads from Zenodo, until 31 March 2026 |
| Contribution to the Second European Climate Risk Assessment (EUCRA-2)                                                                                                                 | 20 February 2026 (M40) | DVGW-TUHH completed the short online survey on relevant project output, related to the Second European Climate Risk Assessment (EUCRA-2). (The European Environment Agency (EEA) is implementing EUCRA-2 at the request of the European Commission. Scheduled for publication in <b>2028</b> , EUCRA-2 will provide a consolidated evidence base to support EU policymaking on climate-related risks, including those originating outside Europe.) | EC policy makers                                                                                            |
| <b>Academic achievements: Bachelor Thesis, Master Thesis, PhD thesis</b><br><i>Aim: at least 3 PhD working on SafeCREW projects.</i><br><i>Targeted stakeholder groups: students.</i> |                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                             |
| Academic achievements: Master Thesis #7                                                                                                                                               | 9 April 2024           | Defense of Master Thesis: "Rimozione per adsorbimento della sostanza organica come precursore di sottoprodotti di disinfezione", Simone Giuseppe Francesco Zungri at POLIMI, Milan, Italy; related to task 2.5.                                                                                                                                                                                                                                    | 40 people, mainly academia at POLIMI                                                                        |
| Academic achievements: Master Thesis #8                                                                                                                                               | 10 October 2024        | Defense of Master Thesis "Safer by design cellulose nanosponges for wastewater treatment" by Roberto Longaretti at POLIMI, Milan, Italy; related to task 2.3.                                                                                                                                                                                                                                                                                      | 40 people, mainly academia at POLIMI                                                                        |
| Academic achievements: Master Thesis #9                                                                                                                                               | 3 April 2025           | Defense of Master Thesis "Adsorbimento su carbone attivo della nom come precursore di formazione dei sottoprodotti di disinfezione" by Michele Manfreda at POLIMI, Milan, Italy; related to task 2.5.                                                                                                                                                                                                                                              | 40 people, mainly academia at POLIMI                                                                        |
| Academic achievements: Bachelor Thesis #2                                                                                                                                             | June 2025              | Defense of Bachelor’s thesis: ‘Water Supply System of Slavutych, Kyiv Region’. By Student: Kovalchuk, I.; supervisor: Martynov, S. The thesis included the development of a water supply network model using the EPANET application.                                                                                                                                                                                                               | Academia at NUWEE                                                                                           |
| Academic achievements: Master Thesis #12                                                                                                                                              | 23 October 2025        | Defense of Master Thesis "Breakthrough Curve Analysis of Natural Organic Matter as DBP precursors Using Spectral Indicators" by Mattia Rombaldoni at POLIMI, Milan, Italy; related to task 2.5.                                                                                                                                                                                                                                                    | Academia at POLIMI                                                                                          |
| Academic achievements:                                                                                                                                                                | December 2025          | Defense of Master’s thesis: ‘Development of a Mathematical Model of the Water Supply Network of Horodok, Lviv Region’ by Perekhodko, V.; supervisor:                                                                                                                                                                                                                                                                                               | Academia at NUWEE                                                                                           |



| Activity                                 | Period                     | Topic                                                                                                                                                                                                                                                                                                          | Targeted stakeholder groups                                                 |
|------------------------------------------|----------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------|
| Master Thesis #10                        |                            | Martynov, S. The thesis involves developing a water supply network model using EPANET based on real data.                                                                                                                                                                                                      |                                                                             |
| Academic achievements: Master Thesis #11 | 3 February 2026            | Defense of Master Thesis (UPC): "Design of an application for the simulation of water quality in drinking water distribution networks" by Berta Rodó Cano (EUT). Supervised by UPC, Spain; related to task 3.2.                                                                                                | 10 people, mainly academia at UPC.                                          |
| Academic achievements: Master Thesis #12 | 5 February 2026            | Defense of Master Thesis (UPC): "Chlorine decay modelling in a full-scale drinking water distribution network" by Scott Martinez Vila (EUT). Supervised by UPC, Spain; related to task 3.2.                                                                                                                    | 10 people, mainly academia at UPC.                                          |
| Academic achievements: Master Thesis #13 | Ongoing                    | Master Thesis by Filippo Angelo Aroldi at POLIMI, Milan, Italy; currently working on task 2.3                                                                                                                                                                                                                  | Academia                                                                    |
| Academic achievements: PhD Thesis #1     | 13 February 2026 (M40)     | PhD Thesis defense (NUWEE): " <a href="#">Treatment of Concentrated Wastewater from Dairy Plants with Recovery of Biologically Valuable Components</a> " online at NUWEE by Volodymyr Besediuk                                                                                                                 | Academic audience                                                           |
| Academic achievements: PhD Thesis #2     | 20 March 2026 (M41)        | PhD Thesis defense (UPC): "Disinfection by-products modelling for estimation in full-scale drinking water distribution networks" at UPC, Laura Vinardell (EUT)                                                                                                                                                 | 80 people, (25 attendants from 15 utilities), academia and EUT researchers. |
| Academic achievements: PhD Thesis #3     | Expected for December 2026 | PhD Thesis (TUHH): "Chemical free removal of DBP-precursor NOM by electro-assisted macro-porous membrane adsorbers from drinking water sources" under finalisation, related to task 2.2, Jon Wullenweber (DVGW-TUHH)                                                                                           | Academia                                                                    |
| Academic achievements: PhD Thesis #4     | Expected for summer 2027   | Ongoing PhD Thesis by David Langenbach (UBA) at TU Berlin: Working title "The effect of disinfectants on materials in drinking water supply systems", under development.                                                                                                                                       | Academia                                                                    |
| Academic achievements: PhD Thesis #5     | Ongoing                    | Ongoing PhD Thesis (POLIMI): building on the master thesis on "Early-warning system for pathogens detection in drinking water: assessment of passive sampler performance and optimal positioning under development Marco Matracchi, POLIMI, Milan, Italy (Supervisor: Manuela Antonelli)                       | Academia                                                                    |
| Academic achievements: PhD Thesis #6     | Ongoing                    | Ongoing PhD Thesis (POLIMI): - building on the master thesis on "Bayesian latent factor modelling for multi-target inference" under development, Bruno Ursino, POLIMI, Milan Italy                                                                                                                             | Academia                                                                    |
| Academic achievements: PhD Thesis #7     | Ongoing                    | Ongoing PhD Thesis (University of Girona): "Use of IA tools to optimise processes in the WTP l'Ampolla" under development; Marta Mulet (CAT); under development                                                                                                                                                | Academia                                                                    |
| Academic achievements: PhD Thesis #8     | Enrolled in 2025           | Ongoing PhD Thesis (NUWEE): Oleksii Kuryliuk: "Intensification of the Oxidation of Contaminants in Water Using a Diaphragm Electrolyzer under Flow-Nonflow Conditions." Using equipment acquired within SafeCREW (DR6000 spectrophotometer, Milwaukee MI404 photometer, test kits for water quality analysis), | Academia                                                                    |



*Table 6: List of publications (1 November 2023 – 31 March 2026)*

- Wullenweber, J., Bennert, J., Mantel, T. and Ernst, M. 2024. **Characterizing Macroporous Ion Exchange Membrane Adsorbers for Natural Organic Matter (NOM) Removal—Adsorption and Regeneration Behavior**, *Membranes* **2024**, 14(6), 124; <https://doi.org/10.3390/membranes14060124>
- European Commission: European Research Executive Agency, Remmert-Rieper, M., Meilmann, D., Martins, R., Charpentier, L. et al., **ZeroPollution4Water Cluster – The overview and the inventory of 32 case studies in drinking and groundwater**, Publications Office of the European Union, **2025**, <https://data.europa.eu/doi/10.2848/3536872>
- Behnisch, P., Besselink, H., Wullenweber, J., Cantoni, B., Antonelli, M., Ernst, M., Grieb, A. and Magna, M., **LP-34 EU Safe Crew project for evaluating organohalogens (e.g. PFAS, DBPs) in drinking water in Milano (Italy) by using a panel of effect-based bioassays**, *Toxicology Letters*, Volume 411, Supplement, **2025**; P. S455 <https://doi.org/10.1016/j.toxlet.2025.07.1048>
- Martynov, S., Klimov, S., & Kucheroва, A. Hazard identification and assessment in water supply systems. Problems of Water Supply, Wastewater Disposal, and Hydraulics. Scientific-Technical Bulletin. 2025. Kyiv, Ukraine: Kyiv National University of Construction and Architecture, Issue 52, pp. 74–80. <https://doi.org/10.32347/2524-0021.2025.52.74-80> . URL: <http://wateruse.org.ua/article/view/345709> (in Ukrainian). This article was published as open access in a professional Ukrainian journal in the field 192 – Construction and Civil Engineering, which includes water supply and wastewater systems.
- Ranjbar, E., Kaczmarek, D., Khorasani and H., Ruhl, A. S., **Investigating chlorine consumption through semi-mechanistic modeling and its implications for trihalomethane formation: A comparison of diverse drinking water**, *Water Research*, Volume 288, Part A, **2026**, <https://doi.org/10.1016/j.watres.2025.124673>.
- Nihemaiti, M., Wullenweber, J., Stefanoni, M., Kahle, L., Lechtenfeld, O.J., Cantoni, B., Antonelli, M., Ernst, M., Reemtsma, T., **Formation of regulated and novel disinfection by-products during chlorine and chlorine dioxide disinfection of surface water and groundwater**, *Water Research*, Volume 290, **2026**, <https://doi.org/10.1016/j.watres.2025.124996>.
- Wullenweber, J., Vahedi, Sh., Bennert, J. and Ernst, M. (2026). **Electrochemical regeneration of macroporous anion exchange membrane Adsorbers for the removal of natural organic matter (NOM)**, *Journal of Water Process Engineering*, Volume 85, **2026**, 109770, ISSN 2214-7144, <https://doi.org/10.1016/j.jwpe.2026.109770>.
- Langenbach, D., Kalweit, C., Kaczmarek, D. and Ruhl, A.S. (2026). **Evaluating DBP Formation in Chlorinated Drinking Water: Effects of Contact with System Materials**, *ACS ES&T Water*, February 26, 2026, <https://pubs.acs.org/doi/10.1021/acsestwater.5c0135>.

