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Abbreviations

CEC	Contaminants of Emerging Concern
CSIC	Institute of Environmental Assessment and Water Research, The Spanish National Research Council
ERA	European Research Area
EU	European Union
ICAPP	International Conference on Advanced Production and Processing
IF	Impact Factor
KPI	Key Performance Indicator
NGO	Non-Governmental Organization
OA	Open Access
PST	Project Steering Team
TFNS	Faculty of Technology of Novi Sad, University of Novi Sad
UNL	NOVA University of Lisbon
WP	Work Package

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1. Executive summary

This deliverable presents the final results of Work Package 6 (WP6) – *Dissemination, communication and outreach activities* – implemented over 40 months within the TwiNSol-CECs project. WP6 aimed to increase the visibility of the project and its partners, strengthen the position of the coordinating institution (TFNS) in the European Research Area, build partnerships with key stakeholders, and raise public awareness of contaminants of emerging concern (CECs) and the need for green solutions towards a toxic-free environment. The main target groups were the scientific community, stakeholders (public authorities, utilities, industry, SMEs, NGOs, schools) and the wider public.

To reach these audiences, TwiNSol-CECs developed and maintained a dedicated project website and profiles on major social-media platforms, which served as central hubs for news, events and results. These online tools were complemented by brochures, roll-up banners, posters, newsletters and other visual materials that ensured strong project branding at scientific, stakeholder and public events.

Scientific dissemination was carried out through open-access publications in peer-reviewed journals, conference abstracts and proceedings, as well as invited and contributed talks and posters at international and national events. The project organized several international workshops, a final international conference and two summer schools, significantly enhancing TFNS's international visibility and networking. Structured stakeholder engagement was achieved through the "Club of TwiNSol-CECs Interest", which provided a forum for regular dialogue with water-related institutions, authorities, industry, NGOs and schools, and was supported by a targeted questionnaire on needs and priorities.

Overall, the planned dissemination and communication objectives have been fully achieved and, in many cases, exceeded. WP6 contributed to establishing new cooperation pathways with stakeholders and European partner projects, strengthened the communication culture at TFNS and created tools and networks that will continue to support the visibility, uptake and exploitation of TwiNSol-CECs results beyond the project's lifetime.

2. Introduction

The overall objective of TwINSol-CECs is to raise scientific and innovation excellence of TFNS in various aspects of the CECs research through networking with 2 top-leading EU partners, Institute of Environmental Assessment and Water Research of the Spanish National Research Council (CSIC) and Nova University of Lisbon (UNL), to integrate TFNS into broader EU networks of excellence, and contribute to national and regional scientific and economic growth and well-being. To maximize the project impact, a series of activities for transmitting the research findings and the project achievements is planned, using different tools, explained together with target audiences in the public deliverable D1.3 “Plan for Dissemination, Exploitation and Communication” published in the 6th project month (January 2023). The overall goals of these “transmitting” activities are to make the project results public:

- to maximize the project impacts, contributing to the advancement of the state of the art in domain of project interest (dissemination), which are primarily the environmental resources monitoring of CECs and the related removal technologies from water,
- to share the skills, data, and knowledge with stakeholders and potential end-users (exploitation) helping in tackling the problem of the environmental pollutants’ distribution in compliance with the European Green Deal commitment for transition to zero-pollution environment, with ultimate benefits for society and economy, and
- to raise general awareness on environmental problems and the importance of research public investments, for changing behaviors to develop more sustainable societies (communication).

The “transmitting” activities are gathered within WP6 of the project work plan coordinated by TFNS; the main objectives of WP6 are set as follows:

- To enhance the visibility of the project results and to raise reputation, research profiles and attractiveness of TFNS, boosting the position of TFNS within ERA,
- To achieve sustainable impact of TwINSol-CECs fostering the partnership with sectors of interest,
- To raise the awareness of citizens on ubiquitous occurrence of CECs and necessities for public investments in green solutions for transition towards zero-pollution, toxic free environment

The activities within WP6 are grouped in six tasks as presented in Table 1.

Table 1. List of WP6 tasks and the lead partner

Task 6.1. Presentation of the project via internet	TFNS
Task 6.2. Presentation of the project results to the scientific community	CSIC
Task 6.3. Preparation and distribution of the project promotional material	TFNS
Task 6.4. Organization of the project events	TFNS
Task 6.5. Communication and clustering activities – ‘Club of TwINSol-CECs interest’	UNL
Task 6.6. Outreach activities	TFNS

The final report on dissemination and communication activities completed in the second reporting period (16-40 project months) are described hereafter. For checking the progress, KPI as indicated in Table 2 have been followed.

Table 2. *Planned (minimum) key performance indicators (KPIs) for project dissemination/communication/exploitation activities and the number achieved within the total of 40 project months (PMs)*

Key performance indicator, KPI	KPI (min) value over 3 years of the project lifetime	KPI value achieved in 40 PMs
Project website	1	1
Project social network profiles	5	6
Project brochures	2	3 ^a
Roll-up banner	1	2
Newsletter	2	2
Posters announcing project events	6	>6 ^b
Manuscripts submitted to full OA publications	5	10 submitted (7 published) ^c
Number of the TFNS researchers' attendances at leading international/regional (national) conferences	10/5	16 (7) ^d
Keynote lectures of the TFNS researchers at scientific conferences	3	5
Number of international scientific events organized at TFNS/number of attendees	4/100	4/188
Number of summer schools organized at TFNS/number of attendees	2/25	2/54
Number of meetings within "Club of TwiNSol-CECs interest"	3	3
Number of stakeholders (legal entities) involved in events organized at TFNS and initially included in "Club of TwiNSol-CECs interest"	4	18
Number of open access public events/number of attendees	2/50	4/>50 ^e

^a Besides the initial and final project brochures, an additional e-brochure in Serbian with popular-science articles (a collection of TwiNSol-CECs LinkedIn posts) was prepared, which was not foreseen in the project originally, and thus represents an additional dissemination indicator. By presenting project topics and related efforts by the project teams in an accessible format and in the Serbian language, this brochure further increases the project's visibility and impact in Serbia and the wider regional community.

^b Originally, 6 posters were planned for 2 summers schools, 3 workshops and the final conference, while during the project implementations more announcing posters were prepared, including the one that gathered several consecutive events (TwiNSol-CECs Week in October 2022, those announcing the lectures within a series of online trainings on membrane processes), as well as for the Open Forum „Water Remembers Everything“. Additionally, posters representing each of the TwiNSol-CECs research group, as well as the concept of TwiNSol-CECs were prepared and displayed during the 3rd TwiNSol-CECs Workshop - <https://twinsol-cecs.com/images/documents/twinsol-cecs-overview.pdf>

^c one manuscript is published as OA article in a high-impact hybrid (not full OA) journal, all 6 remaining are published in full OA journals; for one manuscript submitted in August 2025, the reviewers' comments were still pending at the time of the Deliverable's completion, while the remaining two submitted in November 2025, needs additional approvement based on the received Editor's letter.

^d without attendance to the TwiNSol-CECs international events

^e including the public events co-organized with TwiNSol-CECs-TFNS team

3. Presentation of a project via internet (Task 6.1. Presentation of the project via internet)

3.1 Project official website

The initial concept for the project website was defined in project month 1 (August 2022), and the site was launched in September 2023: <http://www.twinsol-cecs.com/>. By project month 6, all core pages were completed and Deliverable 6.1 on the website launch and creation of the project social media profile was published. The website provides an overview of the project, hosts public deliverables and publications, and includes a password-protected area for internal document exchange among partners. Further website maintenance activities included regularly updating the activity “Timeline”, posting announcements of upcoming events, and publishing project outputs such as scientific publications, project brochures, books of abstracts from international workshops and the final conference, as well as various reports, including public deliverables and other relevant project achievements. One of the main pages of the project website is “Results/Deliverables” (Figure 1), which lists all project deliverables foreseen in the Grant Agreement, reports on implemented activities, project publications (other than scientific publications, which are listed under the Bibliography page), and media appearances, thus serving as a repository of almost all project activities and achievements. The report on the website analytics is presented in Figure 2.

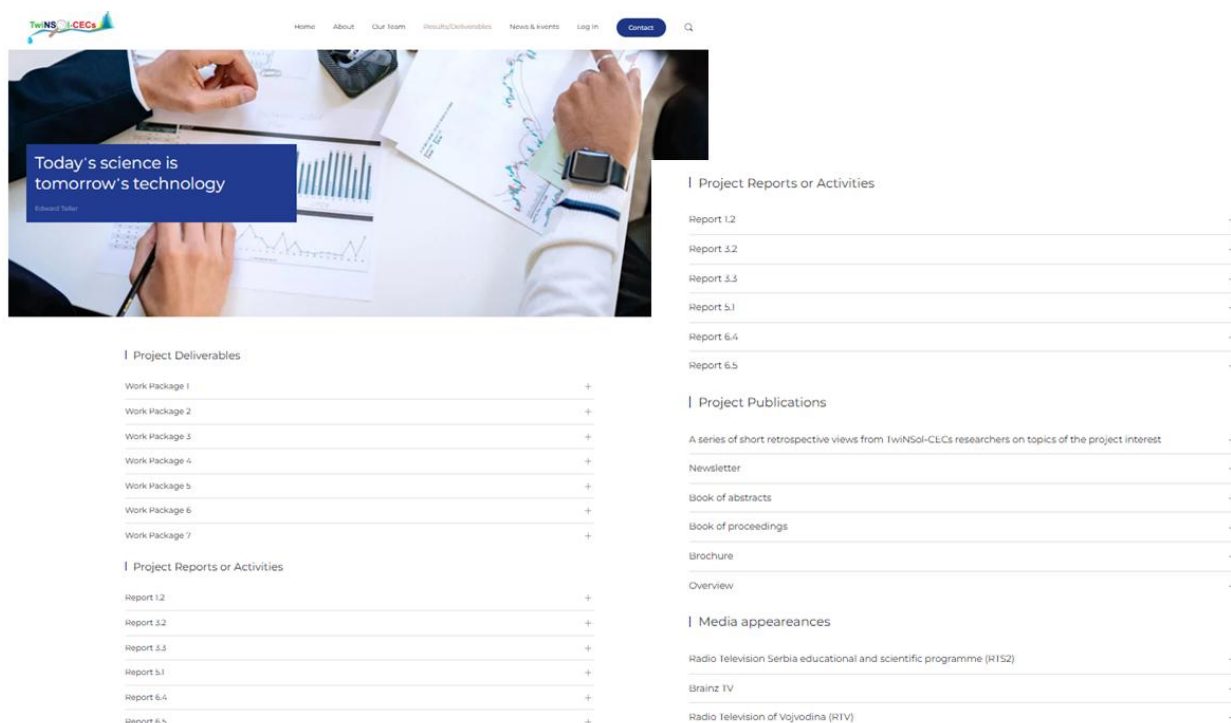


Figure 1. The “Results/Deliverables” page of the project website as the central point for public documentation of project activities

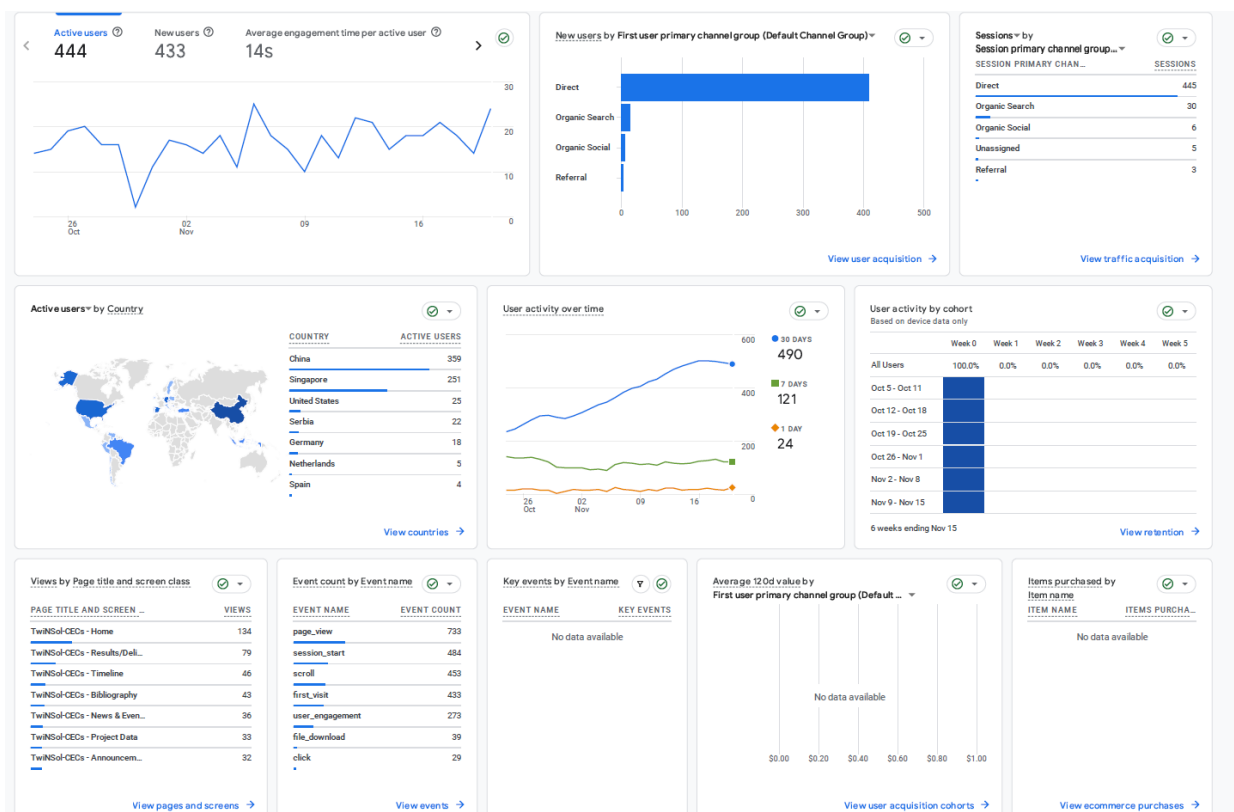


Figure 2. TwINSol-CECs official project website traffic

The website is primarily prepared in English to reach a wide range of interested visitors, but it also includes pages in Serbian¹ presenting the project overview, objectives, and team, ensuring that basic information about the project is accessible to domestic and regional stakeholders. In addition, a brochure compiling science-popular texts written by TwINSol-CECs team members from the Faculty of Technology Novi Sad and originally published on LinkedIn was also prepared in Serbian in order to further target domestic and regional audiences, while presenting key project themes and the overall importance of TwINSol-CECs in an accessible and engaging way².

The project website, YouTube channel and social-media profiles will remain publicly accessible after the formal end of the project, ensuring continued availability of project materials, recorded events and awareness-raising content to both professional and general audiences.

¹ <https://twinsol-cecs.com/index.php/about-project/o-nama>, <https://twinsol-cecs.com/index.php/our-team/nas-tim>

² https://twinsol-cecs.com/images/documents/brosura-twinsol-cecs_klub-zbirka_linkedin_objava.pdf

3.2 Social network profiles of TwINSol-CECs

Social network profiles of the project have been established from the project start; the report on launching of the social media profiles could also be found in the deliverable 6.1³. The profiles have been updated with news on the project activities and interesting facts, coinciding with the TwINSol-CECs interests in the environmental resources' protection and sustainable development.

The TwINSol-CECs Consortium established pages, profiles, and accounts on following social media platforms:

Twitter: <https://twitter.com/twinsolcecs22>

Instagram: <https://www.instagram.com/twinsolcecs/>

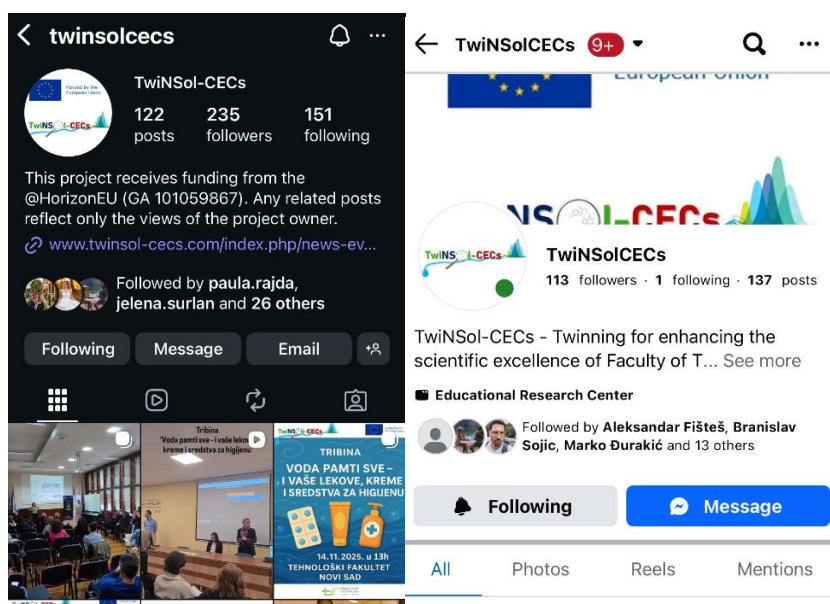
Facebook: <https://www.facebook.com/Twinsolcecs>

Research Gate: <https://www.researchgate.net/profile/Twinsol-Cecs>

LinkedIn: <https://www.linkedin.com/in/twinsol-cecs-3a6267249/>

YouTube: <https://www.youtube.com/@twinsol-cecs>

Social media posts/reels/photos are prepared frequently, and so far, 120+ have been published and there are more than 250 followers by now (Figure 2).



³ https://twinsol-cecs.com/images/documents/d6_1_launching_of_the_project_website_and_the_social_media_network_profiles-final-jan2023.pdf

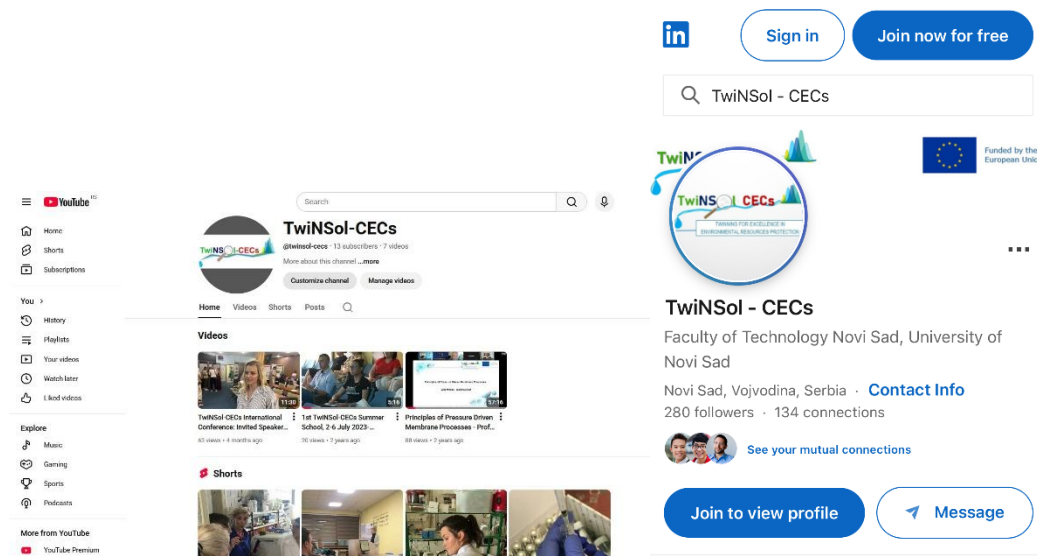


Figure 2. Some social network profiles of TwiNSol-CECs

4. Presentation of the project results and activities (Task 6.2. Presentation of the project results to the scientific community)

4.1. Scientific publications

Presentation of the project research to the scientific community was achieved through scientific papers, poster and oral presentations at well-established international/regional/national conferences (followed by publications of the abstracts or the papers in the conference books). The summary of all scientific publications within 40 months of the project lifetime is given in Table 3. Books published for the project scientific events organized by the TFNS project team are not included in this section, but in the one that describes the organization of the project events; similarly, the published project promotional materials are mentioned in the relevant section hereafter.

During 40 project months 7 OA papers were published/accepted to be published (Table 3):

- 2 OA review articles in international journals with impact factors: [Water](#)⁴, 2023, 15, 1853 and [Environmental Pollution](#)⁵, 2024, 363, 125128,
- 1 OA review article in national journal [Advanced Technologies](#) 2023, 12 (1), 57-74,
- 1 Original OA research article in international journals with impact factors [Environmental Technology & Innovation](#)⁶, 2025, 37, 104043,
- 1 Original OA research article in international journals with impact factors [Membranes](#)⁷, 2025, 15 (2), 358

⁴ IF 3.530 (2021), Environmental Sciences 148/279, Water Resources 36/103

⁵ IF 7.6 (2023), Environmental Sciences 37/358

⁶ IF 7.1 (2024), Environmental Sciences 49/376

⁷ IF 3.6 (2024), Engineering, Chemical 73/176

- 1 Original OA research article i in international journals with impact factors [Toxics](#)⁸, and
- 1 original OA research article in national journal in [Analecta Technica Szegedinensia](#), [2023, 17\(4\), 16-24](#)

All the publications contained acknowledgement to the TwINSol-CECs project and the mandatory disclaimer:

“This study was conducted under the TwINSol-CECs project, which received funding from a Horizon Europe program under grant agreement No. 101059867.

This research was funded by the European Union. However, the views and opinions expressed are those of the author(s) only and do not necessarily reflect those of the European Union or EU executive agency. Neither the European Union nor the granting authority can be held responsible for them.”

Table 3. List of scientific publications acknowledging the TwINSol-CECs project (including those with multiple project acknowledgements) - full list for the 40-month implementation period; publications in the books of TwINSol-CECs events (workshops and final conference) are highlighted in grey

OA articles	
1	V. Vasić, D. Kukić, M. Šciban, N. Đurišić -Mladenović, N. Velić, B. Pajin, J. Crespo, M. Farre and Z. Šereš, Lignocellulose-Based Biosorbents for the Removal of Contaminants of Emerging Concern (CECs) from Water: A Review, <i>Water</i> 2023, 15, 1853. https://doi.org/10.3390/w15101853
2	A. Adamović, M. Petronijević, S. Panić, D. Cvetković, I. Antić, Z. Petrović, N. Đurišić-Mladenović, Biochar and hydrochar as adsorbents for the removal of contaminants of emerging concern from wastewater, <i>Advanced Technologies</i> 2023,12 (1), 57-74. DOI: 10.5937/savteh2301057A https://scindeks-clanci.ceon.rs/data/pdf/2406-2979/2023/2406-29792301057A.pdf
3	D. Rakić, I. Antić, J. Živančev, M. Buljovčić, Z. Šereš & N. Đurišić Mladenović, Solid-Phase Extraction as Promising Sample Preparation Method for Compounds of Emerging Concerns Analysis, <i>Analecta Technica Szegedinensia</i> 2023, 17 (4), 16-24. Vol. 17, No. 42023DOI: https://doi.org/10.14232/analecta.2023.4.16-24
4	N. Đurišić-Mladenović, J. Živančev, I. Antić, D. Rakić, M. Buljovčić, B. Pajin, M. Llorca, M. Farre, Occurrence of Contaminants of Emerging Concern in Different Water Samples from the Lower Part of the Danube River Middle Basin – A Review. <i>Environmental Pollution</i> , 363, 125128. https://doi.org/10.1016/j.envpol.2024.125128
5	S. Panić, N. Đurišić-Mladenović, M. Petronijević, I. Stijepović, M. Milanović, G. Kozma, A. Kukovec, Valorization of Waste Biomass Towards Biochar Production – Characterization and Perspectives for Sustainable Applications In Serbia. <i>Environmental Technology and Innovation</i> 2025, 37, 104043. https://doi.org/10.1016/j.eti.2025.104043
6	J. Šurlan, C.F. Galinha, N. Maravić, C. Brazinha, I. Antić, J. Živančev, N. Đurišić-Mladenović, Z. Šereš, J. G. Crespo, Pharmaceuticals, pesticides, and PFAS at surface water occurrence levels - impact of compound specific physicochemical properties on nanofiltration and reverse osmosis processes, <i>Membranes</i> 2025, 15(12), 358, ; https://doi.org/10.3390/membranes15120358
7	S. Panić, N. Vasiljević, M. Petronijević, I. Antić, J. Živančev, N. Đurišić-Mladenović, Hook-and-destroy Strategy for Efficient Activation of Persulfate by B-Doped Pyrochar for the Removal of Contaminants of Emerging Concerns from Wastewater, <i>Toxic</i> 2025, 13, x (accepted Nov 28, 2025; in press) https://doi.org/10.3390/xxxxx
Abstracts and papers in conference books	
1	D. Rakić, I. Antić, J. Živančev, M. Buljovčić, Z. Šereš, N. Đurišić-Mladenović, Py-GC-MS application for microplastics identification and quantification in water samples, <i>Book of Abstracts-11th Central European Congress on Food and Nutrition</i> , 231, Čatež ob Savi, Slovenia, 27-30 September 2022.
2	N. Đurišić-Mladenović, Z. Šereš, B. Pajin, J. Živančev, N. Maravić, I. Antić, Twinning for excellence in protection of environmental resources, <i>Book of abstracts-TwINSol-CECs, 1st TwINSol-CECs Workshop, Advance multicomponent analyses and novel solutions for protection of environmental resources with contaminants of emerging concern in focus</i> , 13, Novi Sad, Republic of Serbia, 20-21 October 2022.

⁸ During preparation of this deliverable, it was *in press* (proofreading); *Toxics* IF 4.1 (2024), *Environmental Sciences* 128/376

3	J. Živančev, I. Antić, M. Buljovčić, D. Rakić, N. Đurišić-Mladenović, Analysis of CECs in the environment of Western Balkans, Book of abstracts-TwINSol-CECs, 1st TwINSol-CECs Workshop, Advance multicomponent analyses and novel solutions for protection of environmental resources with contaminants of emerging concern in focus, 20, Novi Sad, Republic of Serbia, 20-21 October 2022.
4	S. Panić, M. Petronijević, N. Đurišić-Mladenović, The development strategies for nano-engineered heterogeneous catalysts for wastewater treatment – towards greener approach, Book of abstracts-TwINSol-CECs, 1st TwINSol-CECs Workshop, Advance multicomponent analyses and novel solutions for protection of environmental resources with contaminants of emerging concern in focus, 21, Novi Sad, Republic of Serbia, 20-21 October 2022.
5	N. Maravić, Z. Šereš, B. Pajin, D. Šoronja Simović, N. Đurišić-Mladenović, J. Šurlan, Membrane processes in water treatment, Book of abstracts-TwINSol-CECs, 1st TwINSol-CECs Workshop, Advance multicomponent analyses and novel solutions for protection of environmental resources with contaminants of emerging concern in focus, 23, Novi Sad, Republic of Serbia, 20-21 October 2022.
6	V. M. Vasić, D. V. Kukić, M. B. Šćiban, Biomaterials in water and wastewater treatment, Book of abstracts-TwINSol-CECs, 1st TwINSol-CECs Workshop, Advance multicomponent analyses and novel solutions for protection of environmental resources with contaminants of emerging concern in focus, 24, Novi Sad, Republic of Serbia, 20-21 October 2022.
7	M. Petronijević, S. Panić, S. Savić, S. Petrović, N. Đurišić-Mladenović, Synthesis and characterization of magnetite-biochar composite as a potential adsorbent for wastewater treatment, Book of abstracts-TwINSol-CECs, 1st TwINSol-CECs Workshop, Advance multicomponent analyses and novel solutions for protection of environmental resources with contaminants of emerging concern in focus, 32, Novi Sad, Republic of Serbia, 20-21 October 2022.
8	I. Antić, J. Živančev, M. Buljovčić, D. Rakić, N. Đurišić-Mladenović, Is there a sharp difference between the definitions “compounds of emerging concerns” and “endocrinedisrupting compounds”? Book of abstracts-TwINSol-CECs, 1st TwINSol-CECs Workshop, Advance multicomponent analyses and novel solutions for protection of environmental resources with contaminants of emerging concern in focus, 34, Novi Sad, Republic of Serbia, 20-21 October 2022.
9	D. Rakić, Z. Šereš, I. Antić, M. Buljovčić, J. Živančev, N. Đurišić-Mladenović, Microplastics and nanoplastics in the environment and the characterization methods (In Serbian: Mikroplastika i nanoplastika u životnoj sredini i metode njihove karakterizacije), Proceedings (Knjiga Radova)-10th Memorial Scientific Event on the Environmental Protection “Doc. Dr. Milena Dalmacija (Memorijalni naučni skup iz zaštite životne sredine „Docent dr Milena Dalmacija”), 20-27, Novi Sad, Republic of Serbia, 30-31 March, 2023.
10	J. Šurlan, N. Maravić, Z. Šereš, N. Đurišić-Mladenović, B. Pajin, D. Šoronja-Simović, Removal of ibuprofen, diclofenac and carbamazepine from wastewater by nanofiltration (In Serbian: Uklanjanje ibuprofena, diklofenaka i karbamazepina iz otpadnih voda primenom nanofiltracije), Proceedings (Knjiga Radova)-10th Memorial Scientific Event on the Environmental Protection “Doc. Dr. Milena Dalmacija (Memorijalni naučni skup iz zaštite životne sredine „Docent dr Milena Dalmacija”), 60-66, Novi Sad, Republic of Serbia, 30-31 March, 2023.
11	N. Đurišić-Mladenović, I. Antić, J. Živančev, Conventional and advanced analytical approaches for determining the presence of organic micropollutants in environmental samples (In Serbian: Konvencionalni i napredni analitički pristupi pri određivanju prisustva organskih mikropolutanata u uzorcima iz životne sredine), Proceedings (Knjiga radova) -11th Memorial Scientific Event on the Environmental Protection “Doc. Dr. Milena Dalmacija together with the 1st Spring School of Advanced Wastewater Treatment – SMARTWATERTWIN (Memorijalni naučni skup iz zaštite životne sredine "docent dr Milena Dalmacija" zajedno sa 1. Prolećnom školom unapređenih tretmana otpadnih voda-SMARTWATERTWIN), V-1, Novi Sad, Republic of Serbia, 1-4 April, 2024.
12	M. Šobić, M. Petronijević, S. Panić, N. Đurišić-Mladenović, Removal of Pharmaceutically Active Compounds from Water Using Immobilized Laccase (In Serbian: Uklanjanje farmaceutski aktivnih jedinjenja iz vode primenom imobilisane lakaze), Proceedings (Knjiga radova) -11th Memorial Scientific Event on the Environmental Protection “Doc. Dr. Milena Dalmacija together with the 1st Spring School of Advanced Wastewater Treatment – SMARTWATERTWIN (Memorijalni naučni skup iz zaštite životne sredine "docent dr Milena Dalmacija" zajedno sa 1. Prolećnom školom unapređenih tretmana otpadnih voda-SMARTWATERTWIN), V-8, Novi Sad, Republic of Serbia 1-4 April, 2024.
13	N. Vasiljević, S. Panić, M. Petronijević, S. Smiljanić, Z. Petrović, J. Živančev, N. Đurišić-Mladenović, Possibilities of applying catalysts based on hydrocoal for the activation of persulfate in order to eliminate organic micropollutants - a brief overview (In Serbian: Mogućnosti primene katalizatora na bazi hidrouglja za aktivaciju persulfata u cilju eliminacije organskih mikropolutanata - kratki pregled), Proceedings (Knjiga radova) -11th Memorial Scientific Event on the Environmental Protection “Doc. Dr. Milena Dalmacija together with the 1st Spring School of Advanced Wastewater Treatment – SMARTWATERTWIN (Memorijalni naučni skup iz zaštite životne sredine "docent dr Milena Dalmacija" zajedno sa 1. Prolećnom školom unapređenih tretmana otpadnih voda-SMARTWATERTWIN), V-5, Novi Sad, Republic of Serbia, 1-4 April, 2024.

14	D. Rakić, Z. Šereš, I. Antić, M. Buljovčić, J. Živančev, N. Đurišić Mladenović, Testing the effectiveness of an extraction method for soil analysis for the presence of pollutants of concern (In Serbian: Ispitivanje efikasnosti ekstrakcione metode za analizu zemljišta na prisustvo zagađujućih supstanci koje izazivaju zabrinutost), Proceedings (Knjiga radova) -11th Memorial Scientific Event on the Environmental Protection "Doc. Dr. Milena Dalmacija together with the 1st Spring School of Advanced Wastewater Treatment – SMARTWATERTWIN (Memorijalni naučni skup iz zaštite životne sredine "docent dr Milena Dalmacija" zajedno sa 1. Prolećnom školom unapređenih tretmana otpadnih voda-SMARTWATERTWIN), Z-1, Novi Sad, Republic of Serbia, 1-4 April, 2024.
15	M. Šobić, M. Petronijević S. Panić, N. Đurišić-Mladenović, Application of magnetic carbon composite materials as adsorbents for the removal of emergent polluting substances from water (in Serbian: Primena magnetnih ugljeničnih kompozitnih materijala kao adsorbenata za uklanjanje emergentnih zagađujućih supstanci iz vode), Proceedings (Knjiga Radova)-12th Memorial Scientific Event on the Environmental Protection "Doc. Dr. Milena Dalmacija together with the 2nd Spring School of Advanced Wastewater Treatment – SMARTWATERTWIN (Memorijalni naučni skup iz zaštite životne sredine "docent dr Milena Dalmacija" zajedno sa 2. Prolećnom školom unapređenih tretmana otpadnih voda-SMARTWATERTWIN, 42-48, Novi Sad Republic of Serbia, 1-3 April 2025.
16	V. Vasić, D. Lukić, I. Antić, J. Živančev, M. Šćiban, N. Đurišić-Mladenović, D. Rakić, A. Lourenço, J. Gominho , Adsorption potential of lignin isolated from raspberry stem for removal of CECs from water, Book of abstracts-9th Symposium Chemistry and Environmental Protection Envirochem2023, 59-60, Kladovo, Republic of Serbia, 4-7 June 2023. (in Serbian: Adsorpcioni potencijal lignina izolovanog iz stabljike maline za uklanjanje emergentnih zagađujućih supstanci iz vode. Knjiga apstrakata, 9. Simpozijum Hemija i Zaštita Životne Sredine).
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18	I. Antić, J. Živančev, D. Rakić, M. Buljovčić, N. Đurišić-Mladenović, Development of a method based on solid-phase extraction and ultra-high performance liquid chromatography coupled with mass spectrometry for simultaneous analysis of compounds of emerging concern in water matrices, Book of abstracts-9th Symposium Chemistry and Environmental Protection, Envirochem2023, 33-34, Kladovo, Republic of Serbia, 4-7 June 2023. (in Serbian: Razvoj metode zasnovane na ekstrakciji čvrste faze i tečnoj hromatografiji ultravisokih performansi u kombinaciji sa masenom spektrometrijom za istovremenu analizu jedinjenja koja izazivaju zabrinutost u vodenim sistemima. Knjiga apstrakata, 9. Simpozijum Hemija i Zaštita Životne Sredine).
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32	M. Petronijević, S. Panić, I. Antić, J. Živančev, N. Đurišić Mladenović, Utilization Of Immobilized Horseradish Peroxidase As Bio-Catalyst For Pesticides Removal From Water, Book of Abstracts-3rd International Conference on Advances in Science and Technology-COAST, 56, Herceg Novi, Montenegro, 29 May – 01 June 2024.
33	M. Šobić, M. Petronijević, S. Panić I. Antić, J. Živančev, N. Đurišić-Mladenović N, Application of nitric acid-modified hydrochar for the cephalixin and bezafibrate removal from water, Proceedings-4th International Conference on Advances in Science and Technology – COAST, 641-646, Herceg Novi, Crna Gora, 4–7 June 2025.
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36	V. Vasić, D. Lukić, M. Šćiban, Sewage Sludge Biochar As A Sorbent For Contaminants Of Emerging Concerns Removal From Water, Book of Abstracts-2nd TwiNSol-CECs Workshop, Advanced Water Treatments in Emerging Contaminants Mitigation with Cutting-Edge Technologies, 21, Novi Sad, Republic of Serbia, 6-7 June 2024.
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59	M. Farre, M. Llorca, Occurrence and fate of contaminants of emerging concern and new persistent organic pollutants in different environmental compartments, Influences of plastic particle pollution. Book of Abstracts-ICCE 2025, 29, Belgrade, Republic of Serbia, 8-12 June 2025..
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64	N. Maravić, J. Šurlan, I. Antić, J. Živančev, N. Đurišić-Mladenović, Removal of antibiotics from municipal wastewater by using coupled membrane processes, Book of Abstracts - BioCompWaterClean Workshop „New applications in wastewater treatment on the way to zero-waste technology“, 12, Novi Sad, Republic of Serbia, 20-21 October 2025.

Major well-established international conferences attended by the TFNS researchers presenting the TwINSol-CECs results are (Figures 3-7):

- ICCE2023, Venice, Italy (2 TFNS researchers with 2 spotlight poster presentations)
- SETAC Europe 34th Annual Meeting, 2024, Seville, Spain (3 TFNS researchers with 2 spotlight poster presentations and 1 poster presentations)
- CEMEPE 2024 & SECOTOX, Conference, Lefkada, Greece (1 TFNS researcher with oral presentations)
- SDEWES 2024, Rome, Italy (4 TFNS researchers, 4 oral presentations)
- EUROMEMBRANE 2024, Prague, Czech Republic (2 TFNS researchers with 2 oral presentations)
- CEMEPE 2025 & SECOTOX Conference, Mykonos, Greece (1 TFNS researcher with 1 oral presentations)
- ICCE2025, Belgrade, Serbia (3 TFNS researchers with 3 poster presentations)



Figure 3 Project team members Nikola Maravić, Zita Šereš, Jelena Šurlan and Joao Crespo at EUROMembrane Conference, Prague, Czech Republic, September 2024



Figure 4. Project team members Sanja Panić, Vesna Vasić, Dragana Lukić and Maja Buljovčić at 19th SDEWES Conference in Rome, Italy, September 2024



Figure 5 Project team members Zita Šereš, Nataša Đurišić Mladenović, and Jelena Živančev at SETAC Conference in Seville, Spain, June 2024



Figure 6. Meeting colleagues from Greece and Spain at ICCE 2025 in Belgrade, Serbia: TwiNSol-CECs researchers Jelena Živančev (second from left) and Nataša Đurišić-Mladenović (right).

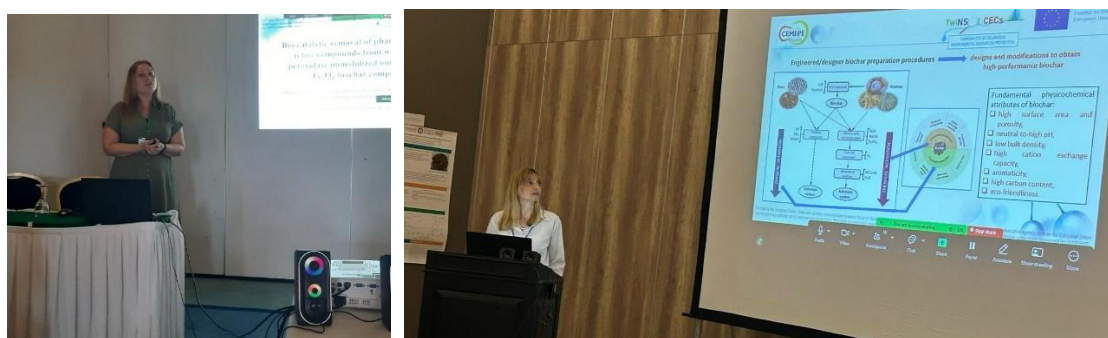


Figure 7. Mirjana Petronijević and Sanja Panić giving oral lectures at CEMEPE 2024 and CEMEPE 2025 at Lefkada island and Mykonos island, Greece, respectively

Besides known international conferences, TFNS researchers presented also TwiNSol-CECs results at several regional and national conferences:

- Central European Congress on Food (CEFood), Čatež ob Savi, Slovenia, 2022
- 10th Memorial Scientific Event on the Environmental Protection "Doc. Dr. Milena Dalmacija, Novi Sad, Serbia, 2023
- 9th Symposium Chemistry and Environmental Protection - Envirochem2023, Kladovo, Serbia, 2023
- 26th Congress of Chemists and Technologists of Macedonia, Ohrid, Northern Macedonia, 2023
- VIII International Scientific-Professional Symposium "Environmental Resources, Sustainable Development and Food Production" (OPORPH 2023), Tuzla, Bosnia and Herzegovina, 2023
- 9th Conference of Young Chemists of Serbia, Novi Sad, Serbia, 2023.
- 11th Memorial Scientific Event on the Environmental Protection "Doc. Dr. Milena Dalmacija" with 1. Spring School for advanced wastewater treatments SMARTWATERTWIN, Novi Sad, Serbia, 2024
- International Conference on Science, Technology, Engineering and Economy - ICOSTEE 2024, Szeged, Hungary, 2024
- COAST, Herceg Novi, Montenegro, June 2025

- 66th Conference of the Oil Industry with International Participation “Production and Processing of Oilseeds”, Herceg Novi, Montenegro, 2025
- BioCompWaterClean Workshop „New applications in wastewater treatment on the way to zero-waste technology“, Novi Sad, Srbija, 2025
- 12th Memorial Scientific Event on the Environmental Protection “Doc. Dr. Milena Dalmacija” with 2. Spring School fo advanced wastewater treatments - SMARTWATERTWIN, Novi Sad, Serbia, 2025.



Figure 8. Project team members Biljana Pajin, Zita Šereš, and Jelena Šurlan at ICOSTEE 2024 in Szeged, Hungary



Figure 9. Presentation of Biljana Pajin at the 66th Conference “Production and Processing of Oilseeds”, Herceg Novi, Montenegro, 2025.

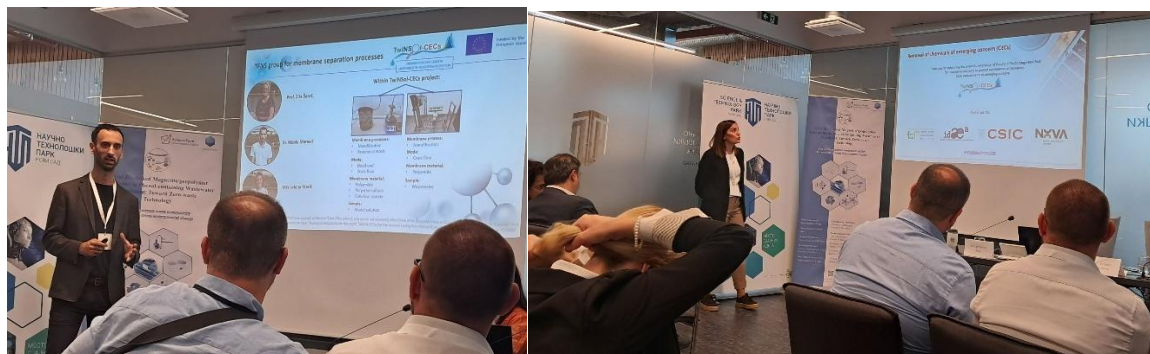


Figure 10. Presentations of the TwINSol-CECs results by Nikola Maravić and Dragana Lukić at BioCompWaterClean Workshop „New applications in wastewater treatment on the way to zero-waste technology“, Novi Sad, Srbija, 2025

Five invited lectures were given by the TwINSol-CECs-TFNS researchers:

- Jelena Živančev and Nataša Đurišić-Mladenović were invited to present the CECs results obtained by HRMS group, and the TwINSol-CECs project, respectively, at Short Symposium "Indoor Pollutants", Zagreb, Croatia, 2023,
- Nataša Đurišić-Mladenović was invited to present the project/project results at:
 - the 26th Congress of Chemists and Technologist of Macedonia, Ohrid, Northern Macedonia, September 2023;
 - BioCompWaterClean Workshop „New applications in wastewater treatment on the way to zero-waste technology“, Novi Sad, Srbija, October 2025, while

At 11th Memorial Scientific Event on the Environmental Protection “Doc. Dr. Milena Dalmacija” with 1. Spring School fo advanced wastewater treatments SMARTWATERTWIN, Novi Sad, Serbia, April 2024, she gave a plenary lecture on „Conventional and advanced analytical approaches for determining the presence of organic micropollutants in environmental samples”, which was recorder and available at YouTube⁹.



Figure 11. Invited and plenary presentations of Nataša Đurišić-Mladenović, respectively, at BioCompWaterClean Workshop „New applications in wastewater treatment on the way to zero-waste technology“, Novi Sad, Srbija, October 2025 (left), and 11th Memorial Scientific Event on the Environmental Protection “Doc. Dr. Milena Dalmacija” with 1. Spring School fo advanced wastewater treatments SMARTWATERTWIN, Novi Sad, Serbia, April 2024 (right)

⁹ <https://www.youtube.com/watch?v=S2R1ldnJNbA>

Additionally, Nataša Đurišić-Mladenović was invited to give a talk at the Summer School on Sustainable organic amendment applications from a soil and ground water management perspective¹⁰ organized within twinning project TwinSubDyn (101059546), for which she prepared together with a coordinator of TwinSubDyn, Snežana Maletić, and presented oral presentation „Hydrothermal carbonization as a sustainable solution: linking waste management (SDG12), clean water (SDG6), and Climate action (SGD13)“, being a topic of shared importance for these two projects.



Figure 12. At the TwinSubDyn Summer School, Nataša Đurišić-Mladenović delivered a presentation, prepared jointly with Snežana Maletić (coordinator of the TwinSubDyn project), on hydrothermal carbonization as an important process for the valorization of wet wastes such as wastewater sewage sludge, 2-6 June 2025

4.2. Other presentations of the project at scientific events

At the very end of November 2023, during the 2nd TwinSubDyn Workshop “Contamination Control in relation to the Application of Organic Soil Amendments in Soil”, Nataša Đurišić-Mladenović was invited to present TwINSol-CECs and the results achieved so far; the presentation was entitled “Monitoring of contaminants of emerging concern (CECs) in surface water and groundwater of Western Balkans” and it was a part of the Workshop session

¹⁰ <https://twinsubdyn.pmf.uns.ac.rs/summerschool.html>

“Beyond the Horizon: Unveiling the Environmental Impact of Microplastics and PFAS as Enduring Symbols of Persistent Organic Pollution”¹¹.

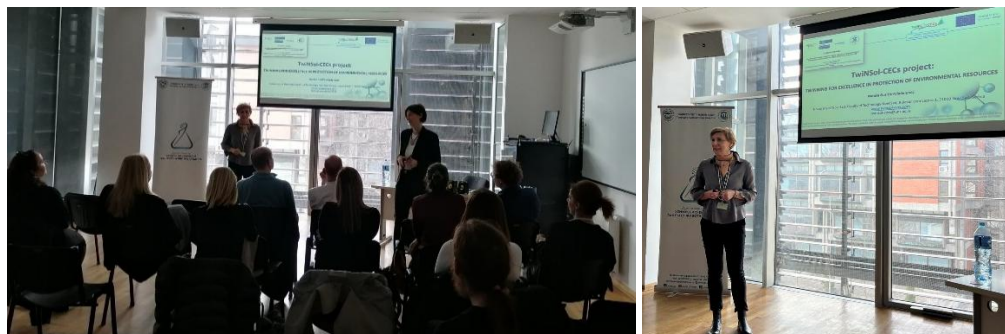
The TwINSol-CECs team and their research activities were presented to participants of the SUPREMES Workshop *“Innovative water treatment technologies for the removal of contaminants of concern – examples of solutions for microcystins, pharmaceuticals and PFAS”*, held at the Rectorate Building of the University of Novi Sad. The second day of the event, entitled *“Overview of scientific challenges in water treatment for the removal of organic micropollutants”*, included a presentation of TwINSol-CECs research, contributing to discussions on contaminants of emerging concern and future research directions. The workshop was hosted by Prof. Ivana Ivancev-Tumbas, who recognized the potential of TwINSol-CECs for establishing new research collaborations in this field.

Nataša Đurišić-Mladenović also presented the project and the latest results at the final event of another twinnig project CROPINNO (101059784). The title of the presentation was *“Advanced analytical and treatment strategies for emerging water pollutants: building institutional capacity in the context of the triple planetary crisis”*; participants had the opportunity to get a glimpse into TwINSol-CECs findings on CECs surveillance in watercourses in northern Serbia, conducted in collaboration with our colleagues from the partner institution CSIC.



Figure 13. Presentation on the TwINSol-CECs results by Nataša Đurišić-Mladenović during the 2nd TwinSubDyn Workshop, November 2023

¹¹ <https://twinsubdyn.pmf.uns.ac.rs/assets/pdf/workshops/WS2%202023.pdf>



2. DAN

SUPREMES prikaz naučnih izazova u tretmanu vode za uklanjanje organskih mikropolutanata

(Moderatori S. Panglisch, I. Ivančev-Tumbas)

Univerzitet u Novom Sadu, Dr Zorana Đinđića 1
II sprat, učionica II-13

(45 mesta, radni jezik engleski, bez prevoda)

08.30-08.45	Registracija
08.45-09.00	Uvod- pregled izazova: prevencija zagađenja, optimizacija procesa i analitika
09.00-09.30	PerfluorAd®- inovacija i primena Dipl.-Ing. Peter Seelbach i Dr.-Ing. Martin Cornelsen, Cornelsen Umwelttechnologie GmbH
09.30-09.45	Diskusija
09.45-10.15	Optimizacija PAC/UF procesa sa fokusom na doziranje PAC M.Sc. Didem Denizer, Univerzitet Duisburg -Esen
10.15-10.20	Diskusija
10.20-10.50	Proizvodnja bio-adsorbenata: sistematično statističko planiranje M.Sc. Lucas Landwehrkamp, Univerzitet Duisburg -Esen
10.50-11.10	Diskusija/pauza za kafu
11.10-11.25	Analički izazovi pri analizi CEC pomoću GC/MS Dr Minja Bogunović, Univerzitet u Novom Sadu
11.25-11.30	Diskusija
11.30-12.20	Inspiracija za moguće buduće saradnje – kratak prikaz HORIZON projekata i projekata koje finansira Fond za nauku Republike Srbije na Univerzitetu u Novom Sadu Prof. dr Snežana Maletić, TwinSubDym, 10 min Prof. dr Nataša Đurišić- Mladenović, TwINSol-CECs, 10 min Prof. dr Aleksandra Tubic, UPSTREAM, 10 min Prof. dr Jasmina Agbaba, NanoCompAs and SafeWat, 10 min Prof. dr Vladana Rajaković-Ognjanović, O-Waste-Water, 10 min
12.20-12.35	Diskusija

Figure 14. TwINSol-CECs presentation by Nataša Đurišić-Mladenović at the SUPREMES project Workshop
“Innovative water treatment technologies for the removal of contaminants of concern – examples of solutions for microcystins, pharmaceuticals and PFAS”, Novi Sad, Serbia, February 1, 2024

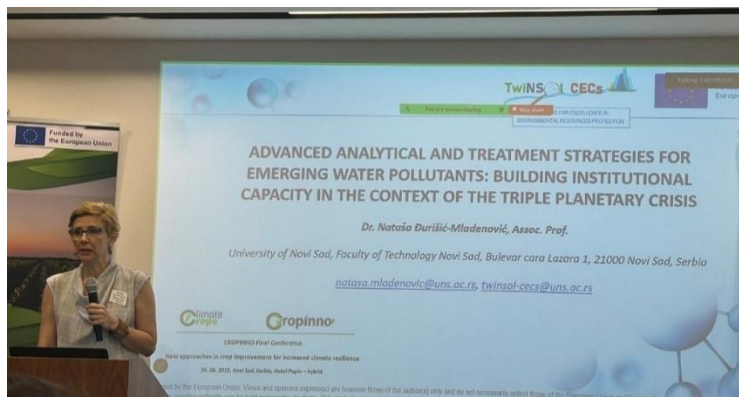


Figure 15. Presentation of Nataša Đurišić-Mladenović on the TwINSol-CECs project results at the closing event of CROPINNO twinning project, Novi Sad, 26 June 2025

5. Preparation and distribution of the project promotional material (Task 6.3. Preparation and distribution of the project promotional material)

Preparation of draft version of promotional materials started in August 2022, while the first round of the materials was printed for the TwINSol-CECs Week in October. In the very beginning of this activity, common visual elements (photos, slogans, quotes, etc.) for all promotional materials, printed or electronic, were agreed, in order to make visual identity of the project itself in this way. All items contained the mandatory EU emblem with EU flag and funding statement, as well as the project logo (more details are given in deliverable 6.2¹²).



Figure 16. Part of the promotional materials prepared and distributed during the second reporting period of TwINSol-CECs

¹² https://twinsol-cecs.com/images/documents/d6_2-mid-report_dissemination_communication-october2023_final.pdf



Figure 17. Some of the prepared posters announcing TwINSol-CECs events

Overall, during the whole project lifetime the following promotional items were prepared and distributed during the project events:

- 2 printed brochures of the project with electronic versions also available at the project Website^{13, 15a}, one of them (the final brochure is bilingual EN-SRB),
- posters announcing all the project events (mainly electronic, and for some events also printed,
- 2 rollup banners (in English and bilingual (SRB-ENG) - displayed during the project events),
- notebook,
- pen with EU emblem and the project logo,
- USB stick with EU emblem and the project logo,
- Newsletter no. 1 (printed and electronic)¹⁴ and no. 2 (electronic)¹⁵, with electronic versions available on the project site,

¹³ <https://www.twinsol-cecs.com/images/documents/brochure-01.pdf>

^{15a} https://www.twinsol-cecs.com/images/documents/brochure_twinsol-cecs-2025.pdf

¹⁴ https://twinsol-cecs.com/images/documents/news_and_events/newsletter_2023.pdf

¹⁵ https://twinsol-cecs.com/images/documents/news_and_events/newsletter_2025.pdf

- Umbrellas with EU emblem and the project logo,
- Lab coats EU emblem and the project logo (used during both Summer Schools),
- Sticky labels for the team members' office doors, also used for newly purchased equipment.



Figure 18. Posters presenting the TwINSol-CECs-TFNS research groups and the project concept displayed during the 3rd TwINSol-CECs Workshop session during the Final Conference, June 2025¹⁶

6. Organization of the project events

(Task 6.4. Organization of the project events)

The 1st TwINSol-CECs Workshop “Advanced multi-compound analyses and novel solutions for the protection of environmental resources with contaminants of emerging concern in focus” was held on 20–21 October 2022 in Novi Sad, Serbia, in parallel with the 2nd International Conference on Advanced Production and Processing (ICAPP 2022). The description of these two events can be found in Deliverable D 6.2¹⁷. Full information on the programme, contributions and evaluation is provided in the dedicated Workshop report and related documentation¹⁸.

The 2nd TwINSol-CECs Workshop “Advanced Water Treatments in Emerging Contaminants Mitigation with Cutting-Edge Technologies” was organized on 6–7 June 2024 at TFNS as part of Work Package 6. The Workshop focused on innovative water treatment technologies for the removal of CECs, with particular emphasis on membrane processes, advanced oxidation and biosorption. The Workshop was organized as a 2-day medium-scale scientific event targeting from the very beginning about 40-50 participants in accordance to the planned venue, the Blue Hall of TFNS. The number of registered participants for the 2nd Workshop was 60 coming from 22 institutions from 9 countries (Portugal, Hungary, Croatia, India, Slovenia, Italia, UK, North Macedonia, and Serbia). The scientific programme combined

¹⁶ The collection of these posters is prepared in pdf version available at the project website <https://twinsol-cecs.com/images/documents/twinsol-cecs-overview.pdf>

¹⁷ https://twinsol-cecs.com/images/documents/d6_2-mid-report_dissemination_communication-october2023_final.pdf

¹⁸ https://twinsol-cecs.com/images/documents/r6_4_1st_twinsol-cecs_workshop-report-oct2022.pdf

plenary, invited, oral and poster presentations, fostering scientific exchange and new collaborations aligned with Horizon Europe and European Green Deal zero-pollution goals. Detailed descriptions of the sessions, contributors and participant feedback are available in the corresponding Workshop report¹⁹.

The TwINSol-CECs International Conference on Environmental and Sustainable Research Solutions, held on 5-7 June 2025 in Novi Sad, Serbia, represented the final and central scientific event of the project and was organized as a triple event together with the 3rd TwINSol-CECs Workshop and the 2nd FERTILEAVES Workshop. Building on the success of the 1st and 2nd TwINSol-CECs Workshops held in 2022, and 2024, this final conference is envisioned as our most ambitious event, both in scope and in outreach. Hosted at the Chamber of Commerce and Industry of Vojvodina²⁰, it brought together more than 70 participants from seven countries, including leading scientists, project partners, early-stage researchers and stakeholders. The programme comprised keynote, plenary, invited, oral and poster sessions covering advanced analytical and remediation approaches for CECs, environmental biotechnology, circular economy concepts and environmental health topics. As part of the conference, the 3rd TwINSol-CECs Workshop was held as 2-day parallel event with the aim of presenting the TwINSol-CECs project's infrastructure and research. This included showcasing the technical resources acquired through the project, as well as the project research activities carried out at the Faculty of Technology Novi Sad. The workshop was intended as a platform for networking and fostering new collaborations, while raising awareness about the capabilities and resources available at our institution for future joint scientific endeavors. Dedicated poster session was organized for the purpose of presenting the research groups and capacities of TFNS gathered under TwINSol-CECs²¹. This was also occasion for distributing the final bilingual (EN-SRB) TwINSol-CECs brochure prepared such as the Workshop results²².

In this spirit of collaboration and knowledge sharing, the Conference hosted 2nd FERTILEAVES Workshop as a joint session of TwINSol-CECs and FERTILEAVES project (HUSRB/23S/11/027, Interreg VI-A IPA Hungary–Serbia Programme), recognizing the importance of amplifying the impact of both initiatives. This joint session reflected the shared dedication of these projects to address environmental and sustainable challenges, and gathered the oral presentations oriented towards biotechnology-driven research solutions. It also served as a strategic step toward more effective dissemination of the project results and broader visibility of the achieved outcomes. Comprehensive information on the Conference structure, scientific outputs and networking outcomes is provided in the dedicated Conference report²³.

All TwINSol-CECs events were recognized as an international scientific events by the Serbian Ministry of Science (national category M30). For the 1st and 2nd TwINSol-CECs Workshops and the TwINSol-CECs International Conference, electronic Books of Abstracts (and, for the 2nd Workshop, a Book of Proceedings) were published with ISBN and full cataloguing (CIP) data, made available via the project website and archived in the ZENODO repository:

¹⁹ https://twinsol-cecs.com/images/documents/r6_4_2nd_twinsol-cecs_workshop-report-june2024.pdf

²⁰ Because of the students blockade of TFNS

²¹ Posters displayed during the 3rd TwINSol-CECs Workshop are gathered in the electronic file available at <https://twinsol-cecs.com/images/documents/twinsol-cecs-overview.pdf>

²² https://twinsol-cecs.com/images/documents/brochure_twinsol-cecs-2025.pdf

²³ https://twinsol-cecs.com/images/documents/r6_4_2nd_twinsol-cecs_conference-report-june2025.pdf

Book of Abstracts. 1st TwINSol-CECs Workshop

https://twinsol-cecs.com/images/documents/1st_twinsol-cecs_book_of_abstracts-20-21_oct2022.pdf

<https://zenodo.org/records/8246433>

Book of Abstracts. 2nd TwINSol-CECs Workshop

https://twinsol-cecs.com/images/documents/book_of_proceedings_-_2nd_twinsol-cecs_workshop.pdf

<https://zenodo.org/records/11485380>

Book of Proceedings. 2nd TwINSol-CECs Workshop

https://twinsol-cecs.com/images/documents/book_of_proceedings_-_2nd_twinsol-cecs_workshop.pdf

<https://zenodo.org/records/13318325>

TwINSOL-CECs International Conference on Environmental and Sustainable Research Solutions ,

https://twinsol-cecs.com/images/documents/book_of_abstracts_final_twinsol-cecs_conference.pdf

<https://zenodo.org/records/15606184>

These publications compiled invited and contributed abstracts, including of the TwINSol-CECs team members (Table 3) and external participants and are described in more detail in the respective event reports.

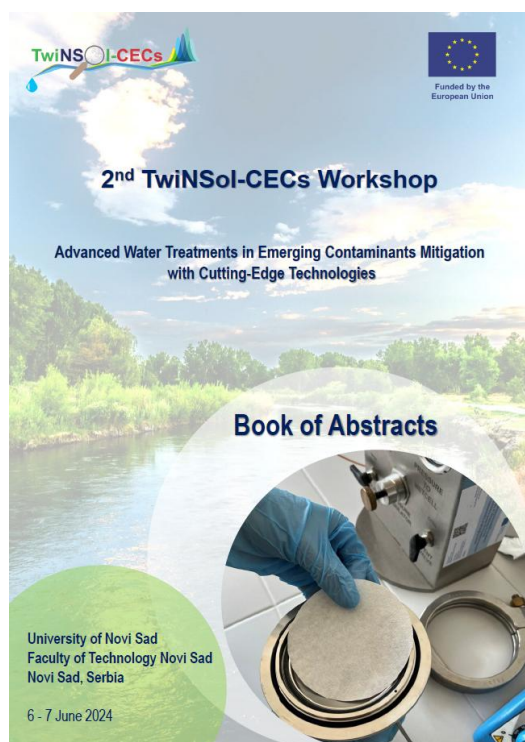


Figure 20. Book of Abstracts of the 2nd TwINSol-CECs Workshop Advanced Water Treatments in Emerging Contaminants Mitigation with Cutting-Edge Technologies, Novi Sad, Serbia, June 6-7, 2024

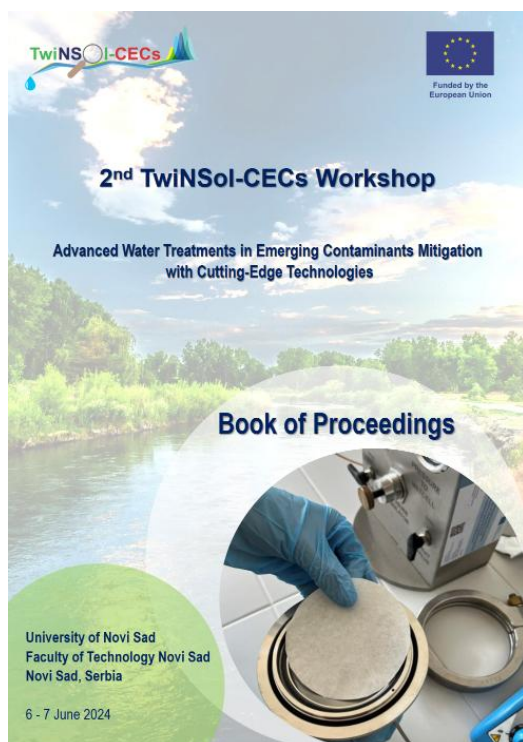


Figure 21. Book of Proceedings of the 2nd TwINSol-CECs Workshop Advanced Water Treatments in Emerging Contaminants Mitigation with Cutting-Edge Technologies, Novi Sad, Serbia, June 6-7, 2024



Figure 22. Book of Abstracts of TwINSol-CECs International Conference on Environmental and Sustainable Research Solutions, Novi Sad, Serbia, June 5-7, 2025



Figure 23. Details from the 2nd TwiNSol-CECs Workshop



Figure 24. Details from the TwiNSol-CECs International Conference on Environmental and Sustainable Research Solutions and 3rd TwiNSol-CECs Workshop

During the TwiNSol-CECs project, TFNS hosted prominent researchers from abroad who cover various fields of environmental protection, becoming a significant Western Balkan hub for the proactive exchange of scientific knowledge, experiences, and ideas for future collaboration; some of quest lecturers are (In alphabetic order):

Prof. Hans Peter Arp, Norwegian University of Science and Technology, Trondheim, Norway

Prof. Biljana Basarin, University of Novi Sad, Faculty of Sciences, Novi Sad, Serbia

Prof. Sandra Budžaki, University of Osijek, Faculty of Food Technology, Osijek, Croatia

Prof. Joao Crespo, NOVA University, ITQB, NOVA School of Science and Technology, Lisbon, Portugal

Dr. Marinella Farre, CSIC, Institute of Environmental Assessment and Water Research, Barcelona, Spain

Dr. Cláudia Galinha, NOVA University Lisbon, NOVA School of Science and Technology, Portugal

Prof. Szabolcs Kertész, University of Szeged, Faculty of Engineering, Szeged, Hungary

Prof. Dimitra Lambropoulou, Aristotle University of Thessaloniki, Department of Chemistry, Thessaloniki, Greece

Dr. Nicola Montemurro, CSIC, Institute of Environmental Assessment and Water Research, Barcelona, Spain

Dr. Nandor Nemestothy, University of Pannonia, Veszprém, Hungary

Dr. Sylwin Pawlowski, NOVA University, NOVA School of Science and Technology, Portugal

Dr. Vanessa Pereira, NOVA University, IBET, Lisbon, Portugal

Prof. Olívia Salomé G. P. Soares, Faculty of Engineering of the University of Porto, Porto, Portugal

Prof. Natalija Velić, J.J. Strossmayer University of Osijek, Faculty of Food Technology, Osijek, Croatia

Dr. Gábor Veréb, University of Szeged, Faculty of Engineering, Szeged, Hungary

During the Final TwiNSol-CECs International Conference, two PhD students from the project team, Jelena (Šurlan) Marić and Dušan Rakić, designed and conducted a short video interview concept with invited speakers. They prepared a set of guiding questions covering the speakers' links and knowledge about TwiNSol-CECs project, the main topics of their presentations, key challenges in water treatment with respect to CECs, and their views on stakeholder readiness and necessary steps towards the implementation of new solutions. Based on the recorded interviews, they created a collage-style video that was published on the project's YouTube channel²⁴. This activity provided a dynamic and engaging communication tool that complemented traditional conference formats. It allowed leading experts to share concise, high-impact messages on scientific, technological and societal aspects of CECs, while at the same time giving visibility to early-stage researchers actively involved in science communication. The video content is reusable for further dissemination through the project's online channels, supports stakeholder awareness-raising on current challenges and solution pathways in water treatment, and showcases the role of TwiNSol-CECs as a platform connecting research, education and practice.

²⁴ <https://www.youtube.com/watch?v=sAVKFzzPUmg&t=27s>

7. Communication and clustering activities

(Task 6.5. Communication and clustering activities – ‘Club of TwiNSol-CECs interest’)

Within WP6, communication and clustering activities were designed to:

- organize at least three information meetings in the form of round tables (“Club of TwiNSol-CECs Interest”) using a Think-Tank approach with key stakeholders;
- transfer project results and state-of-the-art knowledge on contaminants of emerging concern (CECs) to potential end-users and broader society;
- build a sustainable platform for dialogue between academia, industry, public authorities and citizens, and
- foster active communication and clustering with R&I institutions in Serbia and the Western Balkans, as well as with European projects, clusters and industrial partners, with a view to joint initiatives in the European Research Area (ERA).

The activities implemented combined targeted stakeholder meetings, structured feedback collection, participation in external thematic events and collaboration with European initiatives active in environmental and analytical sciences. These activities contribute directly to the long-term visibility, uptake and impact of TwiNSol-CECs outcomes and lay the groundwork for future collaborative projects and innovation actions aimed at achieving a pollutant-free environment.

7.1. Stakeholder information meetings – “Club of TwiNSol-CECs Interest”

A central element of communication and clustering in WP6 was the establishment of the “Club of TwiNSol-CECs Interest”, conceived as a sustainable platform that goes beyond the project lifetime and strengthens the connection of TFNS with other academic players, public institutions, business actors, and society. Separate reports on these meetings are available on the project website and provide further relevant details for interested readers.

Thus, the following Meetings of the Club were organized at the Faculty of Technology Novi Sad (TFNS):

- **1st Meeting of the Club (27 April 2023, TFNS)** aimed at introducing TwiNSol-CECs objectives and opening structured dialogue with potential stakeholders from different sectors²⁵

Key elements: 16 representatives from 11 institutions alongside TwiNSol-CECs team members and TFNS staff, including public water management and utility companies, city and provincial administrations for environmental protection, NGOs, secondary schools, food industry, non-profit business associations and SMEs; format: plenary session followed by an extended B2B coffee break enabling informal networking and bilateral discussions; media coverage: interviews with project representatives and stakeholders were broadcast on the provincial public TV channel, significantly increasing outreach to the general public.

²⁵ https://twinsol-cecs.com/images/documents/r6_5-1st_meeting_club_of_interest-tfns-27apr2023.pdf

- **2nd Meeting of the Club (26 September 2024, TFNS)** focused on presenting concrete project results after two years of project implementation (occurrence of CECs in surface waters of Serbia; emerging contaminants in municipal wastewater and their removal by biomaterials; and application of membrane systems for CEC removal)²⁶

Key elements: 20 representatives from 14 institutions, including public water management and utility companies, NGOs, environmental and administrative authorities, industry (e.g. food and beverage sector), secondary schools, research institute, public institute on public health; format: oral presentations followed by nearly one hour of open discussion and a B2B coffee break; a guided visit to TFNS laboratories allowed stakeholders to get acquainted with TwINSol-CECs analytical capacities and methodologies.

- **3rd Meeting of the Club (26 September 2025, TFNS)** represented the culmination of Club activities, focusing on dissemination of final project results, the results of online questionnaire²⁷ and identification of priority areas for future research and innovation related to CECs.²⁸

Key elements: representatives of public utility companies (Novi Sad and Subotica), secondary schools, University of Novi Sad and citizens, alongside project researchers; format: open discussion followed by a networking B2B coffee break, enabling the identification of future collaboration pathways and potential follow-up projects.

Across all three Meetings, the Club of TwINSol-CECs Interest has proven to be an effective think-tank-style platform for knowledge exchange and for keeping the project focused on society-oriented and awareness-raising activities through dialogue with stakeholders. The valuable insights received from stakeholders help ensuring future research and dissemination efforts to remain aligned with societal needs and expectations.



Figure 25. The second meeting of TwINSol-CECs Club of Interest

²⁶ https://twinsol-cecs.com/images/documents/r6_5_2nd_meeting_club_of_interest-tfns-26sep2024.pdf

²⁷ https://twinsol-cecs.com/images/documents/r6_5_report_questionnaire_sept2025.pdf

²⁸ https://twinsol-cecs.com/images/documents/r6_5_3rd_meeting_club_of_interest-tfns-26sep2025.pdf



Figure 26. The third meeting of TwiNSol-CECs Club of Interest

7.2. Stakeholder feedback – “Club of Interest” Questionnaire

To systematically capture stakeholder perspectives, needs and expectations, the TwiNSol-CECs team developed the “Questionnaire for Identifying Priority Research and Innovation Areas in the Removal of Contaminants of Emerging Concern”, distributed in both Serbian and English to Club participants and other interested parties. Details on the gathered answers are summarized in the Rerpot available at the project website²⁹.

A total of 89 respondents from different sectors completed the questionnaire. The main findings showed that:

- pharmaceutical residues, pesticides, PFAS, microplastics and endocrine disruptors are perceived as the most critical groups of CECs;
- wastewater and surface waters were identified as priority environmental compartments for technological intervention;
- membrane technologies, advanced oxidation processes and bioremediation were recognised as the most promising treatment options, while financial and regulatory barriers were highlighted as key obstacles to their wider implementation;
- stakeholders emphasised the need for stronger cooperation between scientific teams, industry, policymakers and environmental authorities, and identified EU programmes such as Horizon Europe as crucial funding sources for future innovation.

The questionnaire results were presented and discussed with the stakeholders during the 3rd meeting of Club of TwiNSol-CECs Interest, defyning potential research priorities.

7.3 Clustering with national and regional stakeholders

Beyond the Club meetings, the project actively sought opportunities to cluster with stakeholders at national and regional level.

²⁹ https://twinsol-cecs.com/images/documents/r6_5_report_questionarre_sept2025.pdf

A notable example is the Hungarian-Serbian Water Management Forum and B2B Business Talks held on 14 November 2023 at the Chamber of Commerce of Vojvodina in Novi Sad. TwINSol-CECs team members attended the Forum, which brought together experts and companies active in drinking and industrial water treatment, wastewater management and water infrastructure from Hungary and Serbia. TwINSol-CECs was presented through an invited oral presentation by the project coordinator Nataša Đurišić-Mladenović, focusing on modern analytical approaches and membrane-based technologies for CECs, as well as on the importance of interactive collaboration with all societal sectors and potential end-users. The event offered concrete possibilities for future exploitation and technology transfer via cross-border partnerships.



Figure 27. Presentation of TwiNSol-CECs by Nataša Đurišić-Mladenović at the Hungarian-Serbian Water Management Forum organized at the Chamber of Commerce of Vojvodina in Novi Sad, November 2023, by the Embassy of Hungary in Belgrade and the Novi Sad and Subotica regional offices of the Central European Economic Development Network

In addition, TwiNSol-CECs researchers were invited to contribute to the roundtable of high-level workshop “PFAS in Serbia: Current Situation, Scientific and Regulatory Challenges, and Future Steps”, co-organised by the Chamber of Commerce of Belgrade and the Faculty of Chemistry, University of Belgrade, within the PFAS_{twin} project (4 April 2025). The workshop, held in the building of the Chamber of Commerce of Serbia in Belgrade, gathered scientists from several national institutions, international project partners, industry representatives and policymakers to discuss PFAS occurrence in Serbia, analytical capacities, regulatory frameworks and future management steps, fully in line with TwiNSol-CECs objectives on emerging pollutants and stakeholder engagement³⁰.

³⁰ <https://www.pfastwin.org/events/workshop>



Figure 28. Active participation of Dr. Igor Antić, TwINSol-CECs-TFNS researcher, in workshop “PFAS in Serbia: Current Situation, Scientific and Regulatory Challenges, and Future Steps”, co-organised by the Chamber of Commerce of Belgrade and the Faculty of Chemistry, University of Belgrade, within the PFAS twin project (4 April 2025)

7.4. Clustering with European projects

TwINSol-CECs has also engaged in communication and clustering with European projects and thematic initiatives addressing environmental contaminants and sustainability.

- **ZeroPM project:** the project coordinator, Nataša Đurišić-Mladenović, participated in a ZeroPM workshop in Dessau (Germany), 19-20 September 2024, together with partners from IDAEA-CSIC. During this event, contacts were established with the ZeroPM team, providing the occasion to invite the ZeroPM coordinator, Prof. Hans Peter Arp, to deliver a keynote lecture at the TwINSol-CECs Final Conference. Apart of this key-note lecture on the Final TwINSol-CECs Conference, 5-7 June 2025, the link with ZeroPM was accomplished also within a new consortium that submitted a COST project proposal on related CECs topics (October 2024, October 2025 – still waiting for evaluation results). Getting acquainted with the ZeroPM project activities, including attendance at several of its webinars further strengthened the project team’s knowledge base on persistent, mobile (PM) and very persistent, very mobile (vPvM) substances. By following webinars such as “*Environmental psychology perspective on mitigating environmental pollution*” (22 October 2025) and “*Zero Pollution of Persistent, Mobile substances: Removal through Technical Solutions*” (26 August 2025), TwINSol-CECs researchers gained up-to-date insights into scientific, policy and technological aspects of PM/vPvM substance management, which directly supports the project’s own work on emerging contaminants and water treatment.
- **Twinning projects, primarily TwinSubDyn (GA 101059546), PFAS twin (GA 101059534), and SPECTRA (GA 101158453):** contacts and communication between the Twinning coordinators created opportunities for collaboration in several forms, including participation in each other’s project events, invited lectures, and joint preparation of new project proposals. It was agreed that this intensified cooperation should be formally declared, which was eventually crowned by Memoranda of Understanding (MoUs): a bilateral MoU between TwINSol-CECs and SPECTRA (June

2025), and a trilateral MoU between TwiNSol-CECs, PFAStwin and TwinSubDyn (November 2025). With TwiNSol-CECs-TFNS team in between, these MoUs, building on the geographical proximity of Novi Sad, Belgrade and Thessaloniki, established network that effectively pools complementary regional capacities in advanced analytical chemistry, environmental monitoring and water treatment technologies. These interactions reinforce the project's integration into broader European efforts on solutions for environmental protection and create a basis for common appearances in the ERA, including future Horizon Europe consortia and COST actions.



Figure 29. Nataša Đurišić-Mladenović with Sandra Perez and Sergio Santana Viera from IDAEA-CSIC at ZeroPM Workshop in Dassau, Germany, 19-20 September 2024



Figure 30. Hans Peter Arp, coordinator of ZeroPM project (GA 101036756), Dimitra Lambropoulou, coordinator of SPECTRA (GA101158453), Snežana Maletić, coordinator of TwinSubDyn (GA101059546), Vladimir Beškoski, coordinator of PFAStwin (GA 101059534), and Marinella Farre

*coordinator of ONE-BLUE (GA 101134929) at the Final TwINSol-CECs International Conference
(named from left to right)*

A good example of joint activities of twinning projects is joined session within the TwinSubDyn Summer School round-table on early-career researcher (ECR) career development “Unlocking Opportunities: Leveraging Horizon Europe Twinning for Career Growth”³¹. TwINSol-CECs coordinator, Nataša Đurišić-Mladenović, co-led this session with three Twinning project coordinators (Snežana Maletić – TwinSubDyn, Vladimir Beškoski – PFAStwin, Đurđa Kerkez – SmartWaterTwin), with the participation of Dimitra Lambropoulou (SPECTRA). In this session, the concept of Horizon Europe Twinning projects was explained to early-career researchers, with a particular focus on the opportunities they offer for mobility, networking, skills development and active involvement in joint research activities. This interaction exemplifies how TwINSol-CECs uses synergies with other Twinning projects to promote researcher development and to strengthen a regional network of young scientists in the field of environmental protection and CECs.



Figure 31. Joined session of 4 twinning projects within the TwinSubDyn Summer School round-table on early-career researcher (ECR) career development “Unlocking Opportunities: Leveraging Horizon Europe Twinning for Career Growth”: TwINSol-CECs coordinator, Nataša Đurišić-Mladenović, co-led this session with Snežana Maletić –TwinSubDyn coosrinator, Vladimir Beškoski – PFAStwin coosrinator, Đurđa Kerkez – SmartWaterTwin coosrinator, with the participation of Dimitra Lambropoulou (SPECTRA coosrinator).

7.5. Collaboration with industry and technology providers

An important strand of clustering activities has been collaboration with a leading global provider of analytical instrumentation and software. TFNS was invited to participate as a beta-test site for the new dedicated software version, providing feedback on functionalities relevant to environmental suspect screening analysis (more details are disclosed in not public deliverable 4.2). In this context, the external experts also provided targeted guidance to TFNS

³¹ <https://twinsubdyn.pmf.uns.ac.rs/summerschool.html>

HRMS researchers on the use of dedicated HRMS data-processing tools, building upon the experience previously gained through collaboration with the CSIC partner team. This collaboration illustrates a strong clustering link with industry, enhances the analytical capabilities of TFNS in the field of CECs and opens perspectives for joint development of custom data-processing tools beyond the project lifetime.

8. Outreach activities (Task 6.6. Outreach activities)

Project coordinator Prof. Nataša Đurišić-Mladenović has on several occasions presented the TwINSol-CECs project to university and secondary school students, highlighting the general approach to successfully responding to calls for project proposals, and, for example, used the Faculty of Technology Novi Sad Open Doors event to explain to high school students the problem of pollution caused by contaminants of emerging concern (CECs) as part of the triple planetary crisis and the importance of understanding this issue for protecting our planet.



Figure 32 Presentation of the project to the wider public (from left to right): the students within the course of Environmental Protection in Food Industry programme at TFNS, December 27, 2023; Open Doors event of the Faculty of Technology Novi Sad, April 2024

TwINSol-CECs communication coordinator, Nikola Maravić, was engaged in the public tribune “Fight for a Clean Danube – Challenges and Solutions to Pollution in Novi Sad” organized by local NGO GARI, March 2024, aiming at mitigation of surface water pollution in Novi Sad, known for absence of wastewater treatment plant and direct discharge of municipal wastewater into the Danube River. Support and collaboration with the local community is of utmost importance for the implementation of our solutions.

The tribune entitled *Soiree with scientists - our habits and the environment* was agreed to be organized together with representatives of two ongoing twinning projects coordinated by the Faculty of Science in Novi Sad, TwinSubDyn (101059546, 2022-2025), SmartWaterTwin (101060110, 2022-2025). The proposal of the event was submitted to the Science Club at the

beginning of 2023 and upon receiving the approval just recently, the preparation of the TwINSol-CECs contribution has started; the event is scheduled for Dec 1, 2023.



Figure 33. Nikola Maravić at public tribune „Fight for a Clean Danube – Challenges and Solutions to Pollution in Novi Sad“ organized by local NGO GARI at the Zenit bookstore, Novi Sad, March 16, 2024

On December 9, 2023, at the Science Club Novi Sad, Nikola Maravić participated in the public event *Soiree with Scientists – Our Habits and the Environment* together with colleagues from the University of Novi Sad, Đurđa Kerkez (SmartWaterTwin) and Jelena Beljin (TwinSubDyn). He presented the objectives and activities of the TwINSol-CECs project. Representatives of ongoing environment-focused projects engaged in an interactive discussion with the audience on how everyday habits shape the world we live in.



Figure 34. Nikola Maravić at the Science Club Novi Sad in the “Soiree with scientists - our habits and the environment” public tribune together with representatives of SmartWaterTwin and TwinSubDyn twinning projects, 9 December 2023

As part of the PFAStwin project’s public lecture series on „Environmental Pollution - From Conscious to Unconscious” at the Ilija M. Kolarac Endowment, Nataša Đurišić-Mladenović delivered a popular-science lecture entitled “From life-sustaining chemicals to environmental contaminants of emerging concern”, thereby promoting TwiNSol-CECs topics to a broader audience.



Figure 35. Nataša Đurišić Mladenović lecture at the Kolarac Endowment, Belgrade, Serbia as a part of series of lectures on Environmental Pollution - From Conscious to Unconscious

The national and local media covered the opening ceremony of 1st TwiNSol-CECs Workshop during which Prof. Biljana Pajin, Dean of TFNS, emphasized the importance of the TwiNSol-

CECs project, while Prof. Joao Crespo (UNL)³² gave statement on the importance of synergies between research institutions and stakeholders (0:30 to 10:30 minutes of the video in footnote). Also, at the first meeting of “Club of TwINSol-CECs Interest”, national and local media covered the opening ceremony where Prof. Biljana Pajin and Prof. Nataša Đurišić-Mladenović presented importance of crosslinking between the research projects, industry, and policy makers³³ (Figure 36).

During the 1st TwINSol-CECs Summer School the TV crew recorded the morning session of School and took the statements of Prof. Đurišić-Mladenović, Dr. Nicola Montemurro, the visiting researcher from CSIC, and the lecturer during the School, and Dr. Jelena Živančev; the recorded material was used to prepare the video available at YouTube channel of the project and TFNS³⁴.

The project coordinator was also involved in Radio Television Serbia educational and scientific programme (RTS2) “Eco Perspectives: Pollution on a Plate” with one of three features on pollution issues covered by TFNS professors, speaking on water pollution and TwINSol-CECs research (6.09-15.35 min), 18 January 2025³⁵.

Vesna Vasić and Nataša Đurišić-Mladenović appeared in "Eco Future – Innovative Methods for the Analysis and Removal of Emerging Pollutants", a feature on Brainz TV (YouTube channel), an educational channel dedicated to promoting education, science, culture and the arts, September 2025³⁶.



Figure 36. Prof. Biljana Pajin interview for a national media prior the first meeting of the “Club of TwINSol-CECs interest”

³² https://media.rtv.rs/rom/rromologija/78469?fbclid=IwAR3a1leiLtQ_4nR46xGJ5RfvNoDN6ARoWFMjVVh1VonhGpTi-HfoPBLE5kE

³³ https://www.rtv.rs/sr_ci/vojvodina/novi-sad/da-li-se-nazire-kraj-zagadjenu-zivotne-sredine_1440244.html

³⁴ <https://www.youtube.com/watch?v=llcXITgZIA&t=159s>

³⁵ <https://www.youtube.com/watch?v=FhHMBjDpGI0>

³⁶ <https://www.youtube.com/watch?v=6YUYLedWOws&list=PL2OcelYPRsCPOAD6DIV1IAxDTS5j2yIgl&index=4>

A series of short retrospective views from TwINSol-CECs researchers on topics of interest to the project was prepared and published on the LinkedIn social platform. In total, eight articles were published:

- Advances in monitoring of unregulated contaminants in the environmental resources – a perspective by TwINSol-CECs, Prof. Nataša Đurišić-Mladenović, [LinkedIn](#)
- TwINSol-CECs perspective of innovative catalytic solutions towards pollutant free environment, Dr. Sanja Panić, [LinkedIn](#)
- Microplastics - a macro problem tackled by TwINSol-CECs, Dr. Dragana Lukić and Dr. Igor Antić, [LinkedIn](#)
- TwINSol-CECs project - through the eyes of engaged PhD students, Jelena Šurlan and Dušan Rakić, [LinkedIn](#)
- Empowering Research Management and Strengthening Institutional Capacities - A Perspective by TwINSol-CECs, Prof. Biljana Pajin and Prof. Nataša Đurišić-Mladenović, [LinkedIn](#)
- Fighting Water Pollution: How Advanced Oxidation Processes Tackle Emerging Contaminants, Dr Mirjana Petronijević, Research Associate, [LinkedIn](#)
- Advanced Water Treatment Strategies: Membrane processes for Emerging Contaminant Removal, Prof. Zita Šereš and Dr Nikola Maravić, [LinkedIn](#)
- How Life Cycle Assessment Helps Us Make Better Choices in Wastewater Treatment, Dr Ferenc Kiš.

The aim of this series was to enhance the project's outreach, visibility, and stakeholder engagement by communicating key scientific insights in an accessible format. These posts were intended to present project-relevant research topics to a broader professional audience, promote knowledge exchange, and strengthen the project's presence within the international environmental science and membrane technology communities. By presenting intricate subjects in a clear and understandable way, the series sought to engage a wider readership. Each publication was authored by a project member, providing an opportunity to showcase individual expertise and project roles, with particular emphasis on TFNS researchers.

By the end of the project, translations of these texts were compiled into an electronic collection, which was distributed to participants of the previous Meetings of the Club of TwINSol-CECs Interest and made available on the project website³⁷. The purpose of this collection was to draw attention to the problem of contaminants of emerging concern and to clearly explain the importance of the project's research and stakeholder-engagement activities. It is also available at the project website, as well as social media.

³⁷ https://twinsol-cecs.com/images/documents/brosura-twinsol-cecs_klub-zbirka_linkedin_objava.pdf

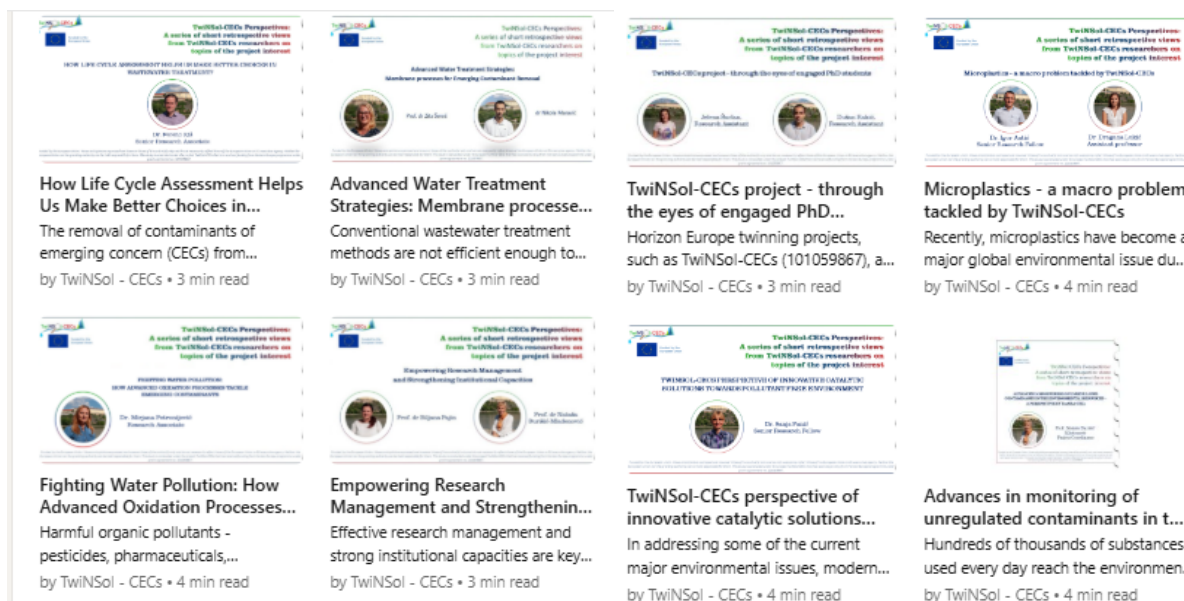


Figure 37. Short retrospective views from TwiNSol-CECs researchers on topics of the project interest publish on LinkedIn project page

The open public forum titled “Water Remembers Everything – Including Your Medicines, Creams and Hygiene Products” was held on 14 November 2025 at TFNS, organized within the TwiNSol-CECs project. The event brought together citizens, students, representatives of the secondary schools, and media interested in the growing issue of micropollutants in aquatic environments. Panelists were Nataša Đurišić Mladenović and Dragana Lukić, while Nikola Maravić moderated the discussion and quiz which included present audience.

During the forum, panelists discussed how everyday products such as pharmaceuticals, cosmetics, and hygiene items eventually enter rivers and water systems, becoming an increasingly serious environmental challenge. The programme covered several key topics, including the presence of residues originating from medicines and personal care products in surface waters, the pathways and fate of these substances in the environment, and the various ways in which they affect living organisms. Special attention was given to innovative analytical techniques and advanced treatment methods that enable the detection and removal of these contaminants. The discussion also highlighted the importance of raising public awareness and strengthening both individual responsibility and systemic measures aimed at reducing pollution at its source. The event was covered by national broadcast media. Prof. Đurišić Mladenović and Dragana Lukić gave statements³⁸ on the problem of CEC presence in surface waters and motivated the citizenship to get more involved in solving the problems. Furthermore, Nataša Đurišić Mladenović and Nikola Maravić participated as guests in a TV programme³⁹ aimed at inviting citizens to the public forum.

³⁸https://www.youtube.com/watch?v=2j_A13RvX_8

³⁹<https://www.youtube.com/watch?v=KDgPIY2i9Cw&t=5s>

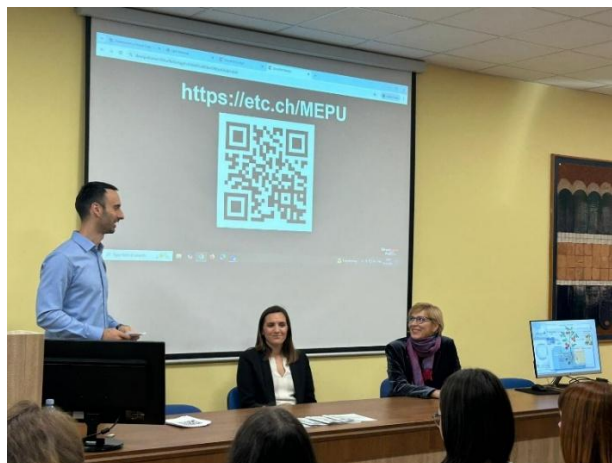


Figure 38. Nikola Maravić introducing interactive quizz to participants of TwINSol-CECs public forum “Water Remembers Everything – Including Your Medicines, Creams and Hygiene Products”, TFNS, 14 November 2025

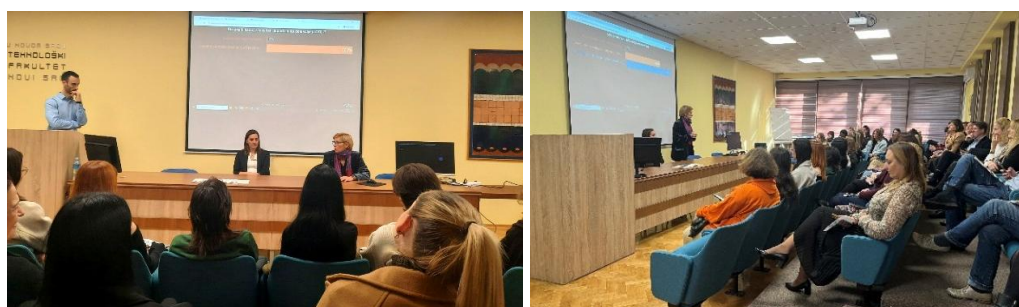


Figure 39. Nataša Đurišić Mladenović and Dragana Lukić discussing quiz question and the related answers from participants

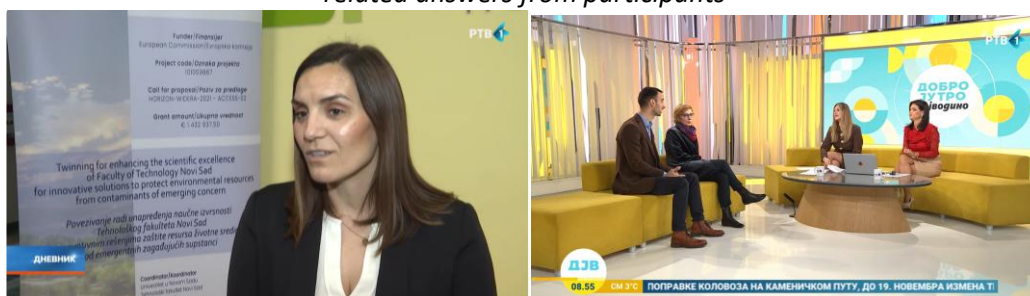


Figure 40. TV programme coverage of the TwINSol-CECs open forum “Water Remembers Everything”: short TV news report on the “Water Remembers Everything” Open Forum (TV news, 16 November 2025, Dragana Kukić giving a statement, left) and appearance in the morning show “Good Morning, Vojvodina” (right)

9. Conclusions

The activities reported in this deliverable demonstrate that WP6 has effectively fulfilled its objectives of enhancing visibility, strengthening partnerships and engaging the wider public around the challenges posed by Contaminants of Emerging Concern. Through a strategically designed mix of online tools, scientific dissemination, project-branded materials, international events and targeted outreach, TwiNSol-CECs has created a coherent communication ecosystem that supports both the scientific work of the consortium and its broader societal mission.

From a quantitative perspective, all key performance indicators related to dissemination, communication and outreach have been met, and most of them have been exceeded. The project website and six social-media channels ensured a continuous flow of information and documentation; scientific outputs in the form of open-access papers and conference contributions strengthened TFNS's international profile; international workshops, the final conference and summer schools brought together researchers, students and external experts; and the "Club of TwiNSol-CECs Interest" provided a structured framework for stakeholder engagement, involving 18 legal entities and enabling regular exchange on project-relevant topics.

The Club meetings, clustering with national and regional initiatives, and interactions with sister Twinning projects and thematic European projects have strengthened TFNS's role as an active node in networks dealing with CECs and environmental sustainability. The preparation of popular-science content, including a series of LinkedIn articles and their compilation into an e-brochure in Serbian, helped to translate complex scientific issues into accessible messages for domestic and regional audiences, thus supporting the Road Map's emphasis on visibility, outreach and stakeholder engagement.

Throughout WP6, early-career researchers and PhD students played an active role in designing and implementing communication activities – from preparing LinkedIn popular-science articles and video interviews to moderating sessions and contributing to public events – thereby strengthening both the project's outreach capacity and their own science-communication skills.

In conclusion, WP6 has played a central role in ensuring that the scientific advances of TwiNSol-CECs are visible, accessible and relevant to diverse audiences. The structures, materials and relationships developed under this work package, from the website and social-media presence to the Club of Interest and clustering with sister projects, provide a solid basis for continued dissemination, communication and exploitation of project results in the post-project period, reinforcing TFNS's integration into the European Research Area and its contribution to the transition towards a zero-pollution, toxic-free environment.