

Deliverable 7.4

Wider outreach activities

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Summary

The report demonstrates that the project successfully ensured broad engagement with academic, professional and stakeholder communities through a diverse set of outreach activities, including international conferences, stakeholder roundtables, academic–professional workshops, discussion panels and high-level scientific dissemination. These actions enabled the project to reach a wide and multidisciplinary audience, encompassing higher education institutions, research organisations, public authorities, private sector representatives and climate-dependent economic sectors. As a result, ClimEd significantly increased its visibility at both national and international levels, promoted its educational models and project results beyond the consortium, and facilitated their integration into broader scientific and policy discussions. Furthermore, these outreach efforts contributed to strengthening links between academia, policy-makers and end-users, enhancing the relevance and applicability of climate services education, and supporting the long-term sustainability and exploitation of project outcomes.

1 Introduction

Wider outreach activities constitute a critical component of the ClimEd dissemination strategy, aimed at extending the impact of the project beyond its immediate consortium and ensuring the uptake of its results by a broad range of external stakeholders. In line with Deliverable D.7.4, partner institutions organised and participated in a diverse set of outreach-oriented events, including international conferences, stakeholder roundtables, academic–professional workshops and dedicated ClimEd sessions within larger scientific and policy forums. These activities complemented the core dissemination tools of the project and provided platforms for direct interaction with target audiences at national and international levels.

The outreach approach adopted within ClimEd was both structured and flexible, allowing partners to tailor activities to specific stakeholder groups while maintaining alignment with the overall project objectives. Special attention was given to events that enabled cross-sectoral dialogue and knowledge exchange, ensuring that ClimEd results were not only communicated but also discussed, validated and further developed in cooperation with external actors. This included engagement with representatives of higher education institutions, public authorities, research organisations, private sector stakeholders and climate-dependent economic sectors such as agriculture, urban development, energy and environmental management.

These activities were designed to engage external audiences and to ensure the practical relevance of project outputs. Particular emphasis was placed on integrating ClimEd results into broader scientific and policy discussions, promoting climate services education, and facilitating dialogue between academia and end-users. As a result, wider outreach activities contributed not only to increasing visibility of the project, but also to strengthening the link between education, research and practice, enhancing the societal impact of ClimEd and supporting the long-term sustainability of its outcomes.

2 International Conferences, Roundtables and Outreach Events

International conferences, stakeholder roundtables and outreach-oriented events constituted a core pillar of the ClimEd wider dissemination strategy, providing structured platforms for presenting project results, fostering dialogue and ensuring engagement with external audiences beyond the project consortium. Through participation in and organisation of such events, partner institutions were able to position ClimEd within broader scientific, educational and policy contexts, while also facilitating direct interaction with representatives of academia, public authorities, international organisations and climate-dependent economic sectors. These events played a key role in communicating project achievements, validating developed approaches and promoting the uptake of ClimEd educational models and methodologies.

The outreach activities implemented under this component were characterised by their diversity in format and scope, ranging from large-scale international conferences with wide geographic participation to targeted roundtables addressing specific sectoral challenges and stakeholder needs. Particular emphasis was placed on integrating dedicated ClimEd sessions, panels and discussions into established scientific forums, thereby maximising visibility and ensuring that project outputs were embedded within ongoing international discourse on climate services, climate change adaptation and mitigation. In addition, roundtables and discussion panels enabled focused exchanges between researchers, practitioners and policy-makers, contributing to the co-creation of knowledge and enhancing the practical relevance of project results.

Overall, these events served not only as dissemination channels, but also as mechanisms for feedback, networking and capacity building, strengthening collaboration between partners and external stakeholders, and supporting the long-term integration of ClimEd outcomes into education, research and practice at both national and international levels.

2021

A major 2021 outreach event was the International Research-to-Practice Conference “Climate Service: Science and Education” (22–24 September 2021, Odesa), hosted by Odesa State Environmental University. The event gathered 147 participants from 15 countries (Austria, Belarus, Vietnam, Ecuador, Estonia, Egypt, Spain, Nigeria, the Netherlands, Portugal, Germany, Finland, France, Switzerland, Ukraine) and was organised in a hybrid format under the ClimEd project. A dedicated roundtable “Bridging the Gap between Provision Climate Services and Needs of Climate-Dependent Sectors” ensured engagement with external stakeholders and climate-dependent sectors.

<http://climateservices.onu.edu.ua/>

<http://climateservices.onu.edu.ua/conference-proceedings/>

<https://climed.network/uk/mizhnarodna-konferenciya-klimatychne-obslugovuvannya-nauka-i-osvita/>

Additional 2021 outreach activities included:

- International transdisciplinary discussion panel “Climate Change – Global Challenge of Today” (4 May 2021) was held by Odesa National Medical University, involving 26 participants, including representatives of WMO and partner institutions;

<https://onmedu.edu.ua/wp-content/uploads/2022/01/Mizhnarodna-transdisciplinarna-diskusijna-panel-Zmina-klimatu-globalnij-viklik-sogodennja-.pdf>

- Environmental Safety of the State First National Roundtable (24 September 2021) held by Kyiv National University of Construction and Architecture, involving 90 participants

<https://sci.ldubgd.edu.ua/handle/123456789/8500>

- Second All-Ukrainian Hydrometeorological Congress dedicated to the 100th Anniversary of the Hydrometeorological Service of Ukraine (7–9 October 2021, OSENU). On 8 October 2021, the ClimEd roundtable “Challenges of Establishment of the Climate Service in Ukraine” discussed the results of a survey among representatives of the Hydrometeorological Service of Ukraine and involved 150 participants;

<https://climed.network/second-all-ukrainian-hydrometeorological-congress/>

- 4th International Scientific-Technical Conference “Water Supply and Wastewater Disposal: Designing, Construction, Operation and Monitoring” (20–22 October 2021, Lviv Polytechnic National University), including the ClimEd roundtable “Adaptation of Strategic Approaches and Technologies in Water Supply and Sewerage to Climate Change” on 20 October 2021, with approximately 30 participants; <https://climed.network/round-table-within-the-conference-in-lviv/>

- Environmental Safety of the State Second National Roundtable (15 December 2021) held by Kyiv National University of Construction and Architecture, involving 79 participants

<https://sci.ldubgd.edu.ua/handle/123456789/9789>

- Two posters were presented at the 14th WMO Symposium “Education and Training in a Period of Rapid Change” (SYMET-14, 22–25 November 2021, Virtual Poster Session), supporting wider international dissemination of ClimEd training approaches;

<https://symet-14.virtualpostersession.org/>

2022–2023

Outreach activities continued through participation in international and national scientific conferences held by Kyiv National University of Construction and Architecture, including:

- IV International Scientific and Practical Conference “Current Problems, Priority Directions and Development Strategies of Ukraine” (2022), featuring 63 contributions;

<https://repository.knuba.edu.ua/server/api/core/bitstreams/938d154a-6548-4c28-88ab-b91a66268dec/content>

- II International Scientific and Practical Conference “Green Construction” (13–14 April 2023, Kyiv National University of Construction and Architecture), with proceedings published in a 607-page volume and contributing to dissemination of climate-related educational approaches;

<https://drive.google.com/drive/folders/16n-Hha79oRh7r6p6FJx78IRUKSJFydUV>

- ClimEd project achievements were presented at the International Exhibition “Education and Career – the Students’ Day 2023” (17–18 November 2023) and remained available online for six months;

<https://online.osvitaexpo.com.ua/study/odeskij-derzhavnij-ekologichnij-universitet/>

2024

A key 2024 outreach event was the 8th International Congress “Sustainable Development: Environmental Protection. Energy Saving. Sustainable Environmental Management” (16–18 October 2024, Lviv Polytechnic National University), with 131 participants from Estonia, Germany, Poland, Sweden and Ukraine. Within the Congress, a dedicated ClimEd roundtable addressed the impact of climate change on biodiversity conservation and sectoral adaptation strategies.

<https://science.lpnu.ua/uk/ekokongres-2024>

<https://lpnu.ua/en/news/v-universyteti-uzhe-vsime-vidbuvsia-mizhnarodnyi-konhres-iz-problem-pryrodookhoronnoho>

2025

The Second International Research-to-Practice Conference “Climate Services: Science and Education” (16–18 April 2025, Odesa) held by Odesa I.I.Mechnikov National University represented a flagship outreach event, bringing together 198 participants from 11 countries. The event included dedicated ClimEd roundtable and resulted in the publication of 79 conference papers, significantly strengthening international visibility and dissemination of project results.

<https://cs2025.onu.edu.ua/>

<https://cs2025.onu.edu.ua/proceedings/>

<https://climed.network/international-conference-climate-service/>

Additional 2025 outreach activities included Training workshop “Environmental Aspects of Sustainable Development and Climate Change Adaptation” (May 2025, Lviv Polytechnic National

University), involving 41 participants and contributing to awareness-raising within the academic community;

<https://lpnu.ua/news/ekolohichni-aspekty-staloho-rozvytku-ta-adaptatsii-do-zmin-klimatu-treninh-praktykum-dlia>

3 Academic Dissemination and Scientific Outreach

In addition to dedicated outreach events, ClimEd results were systematically disseminated through participation in high-level international scientific conferences, workshops and academic forums, ensuring integration of project outputs into the global research and education landscape.

Key dissemination activities included:

- Eastern Mediterranean & Middle East Climate Atmosphere Research Center Workshop (Cyprus, 2021);
- SYMET-14 Conference (Switzerland, 2021);
- European Geosciences Union (EGU) General Assembly (2022, 2025, 2026);
- CORDEX Conference (Italy, 2023);
- ACCC-FASN Science Conference (2024).
- WMO Joint CALMet-XVI and CONECT-3 Conference (Italy, 2025).

These platforms represent internationally recognised forums in climate science, meteorology and geosciences. Participation in such events ensured high visibility of ClimEd results and facilitated dissemination of project methodologies, training approaches and educational models within the global scientific community.

Eastern Mediterranean & Middle East – Climate Atmosphere Research Center Workshop (11-12 October 2021, Cyprus); oral presentation “Climate-related education: on-line approach in COVID times” in section “Education and Training Opportunities”; https://climatechange2021.org/wp-content/uploads/Book-of-Abstracts_VirtualWorkshop_AC0710-js1.pdf ;

Voloshkina, O., Shabliy, T., Trofimovich, V., Yefimenko, V., Goncharenko, A., & Zhukova, O. (2021). Influence of global climate change on air pollution in urbanized areas and spread of COVID-19 morbidity. *Environmental Safety and Natural Resources*, 39(3), 5–15. <https://doi.org/10.32347/2411-4049.2021.3.5-15>

SYMET-14 “Education and Training in a Period of Rapid Change” (22-25 November 2021, Switzerland); poster presentation “Online trainings in climate-oriented education”; <https://symet-14.virtualpostersession.org>. Alexander Mahura, Valeriya Ovcharuk, Tetyana Kryvomaz, Hanna Lappalainen, Katja Lauri, Inna Khomenko, Oleg Shablii, Veljo Kabin, Marek Frankowicz, Yurii Rashkevych, Larisa Sogacheva, Putian Zhou, Antti Mäkelä, Svitlana Krakovska, Laura Riuttanen, Svyatoslav Tyuryakov, Irina Bashmakova

European Geosciences Union (EGU) General Assembly 2022 (May 2022); oral presentation “Climate-Oriented Trainings in the Field of Climate Services, Climate Change Adaptation and Mitigation”; <https://meetingorganizer.copernicus.org/EGU22/EGU22-4895.html>; Ovcharuk, V., Mahura, A., Kryvomaz, T., Aguilar, E., Olano, J., Khomenko, I., Shabliy, O., Sogacheva, L., Zhou, P., Mäkelä, A., Krakovska, S., Lappalainen, H., Stepanenko, S., Lauri, K., Riuttanen, L., Tyuryakov, S., and Bashmakova, I.: CLIMATE-ORIENTED TRAININGS in the field of Climate Services,

Climate Change Adaptation and Mitigation, EGU General Assembly 2022, Vienna, Austria, 23–27 May 2022, EGU22-4895, <https://doi.org/10.5194/egusphere-egu22-4895>, 2022.

The International Conference on Regional Climate-CORDEX 2023 (ICRC-CORDEX 2023) was held 25-29 of September 2023 in Trieste, Italy; pico-presentation "Development of Multilevel Local, Nation- and Regionwide Education and Training in Climate Services in Ukraine" <https://icrc-cordex2023.cordex.org/>

Ivchenko, V., & Rybalka, I. (2024). Study of climate change using climate diagrams. In Vectors of Science and Technology Development in the Context of Globalisation: Proceedings of the International Scientific Conference (Riga, Latvia, March 22–23, 2024). Riga: Baltija Publishing. <https://doi.org/10.30525/978-9934-26-408-5-7>

ACCC-FASN Science Conference 11-12 Nov 2024. CLIMED: CLIMATE-ORIENTED TRAININGS. A. Mahura, V. Ovcharuk, T. Kryvomaz, E. Aguilar, J. Olano, I. Khomenko, O. Shablii, V. Kaskevich, S. Kalev, V. Kabin, H.K. Lappalainen, L. Riuttanen, S. Tyuryakov <https://en.ilmatieteenlaitos.fi/accc-fasn2024>

European Geosciences Union (EGU) General Assembly 2025 (Apr-May 2025); oral presentation "Virtual Exchanges and Climate Education as a Tool for European Partnership Development for SDGs"; <https://meetingorganizer.copernicus.org/EGU25/EGU25-15778.html>; Mahura, A., Lappalainen, H. K., Karhumaa, J., Riuttanen, L., Vauhkonen, A., Tyuryakov, S., and Ovcharuk, V. and the & Erasmus+ CLUVEX, UnaVEx and ClimEd projects teams: Virtual Exchanges and Climate Education as a Tool for European Partnership Development for SDGs, EGU General Assembly 2025, Vienna, Austria, 27 Apr–2 May 2025, EGU25-15778, <https://doi.org/10.5194/egusphere-egu25-15778>, 2025.

Khomenko I., Lappalainen H., Tyuryakov S., Aguilar E., Olano Pozo J. X., Shkaruba A., Bonkovsky O., Dyadin D., Dyman T., Hrinchenko Y., Malovanyy M., Ovcharuk V., Starec O., Talalaiev K., Tkachenko T., Tymchuk I., Vergeles Y., Verenych O., Voloshkina O. Competency-Based Development of Climate Education Courses in Ukraine: The ClimEd Project. Joint CALMet XVI – CONECT 3 Conference: Programme Book. ID 73. Florence / Online, 24 November 2025. WMO Education and Training Programme. URL: <https://etrp.wmo.int/mod/page/view.php?id=30433>

Nedostrelova L., Prokofiev O., Volvach O. International and National Legal Instruments on Climate Change. Joint CALMet XVI – CONECT 3 Conference: Programme Book. ID 67. Florence / Online, 24–28 November 2025. WMO Education and Training Programme. <https://etrp.wmo.int/mod/resource/view.php?id=30548>

Nedostrelova L., Khomenko I., Borovska H., Katerusha H. Climatic and Socio-Economic Indicators in Climate Product Design for Climate Services. Joint CALMet XVI – CONECT 3 Conference: Programme Book. ID 65. Florence / Online, 24–28 November 2025. WMO Education and Training Programme. <https://etrp.wmo.int/mod/resource/view.php?id=30548>

Semerhei-Chumachenko A., Halych Y., Prokofiev O. Developing Courses on Data Analysis for Climate Services in Ukraine. Joint CALMet XVI – CONECT 3 Conference: Programme Book. ID

47. Florence / Online, 24–28 November 2025. WMO Education and Training Programme. <https://etrp.wmo.int/mod/resource/view.php?id=30548>

Lappalainen, H., Tyuryakov, S., Aguilar, E., Olano Pozo, J. X., Mahura, A., Khomenko, I., Dyman, T., Malovanyy, M., Ovcharuk, V., Talalaiev, K., Tkachenko, T., and Vergeles, Y.: Closing the climate services skills gap in Ukraine through competency-based education , EGU General Assembly 2026, Vienna, Austria, 3–8 May 2026, EGU26-22942, <https://doi.org/10.5194/egusphere-egu26-22942>, 2026.

In addition, project-related research outputs were published in peer-reviewed journals, including:

Stepanenko, S., & Khomenko, I. (2022). On the concept of climate services development in Ukraine. *Ukrainian Hydrometeorological Journal*. <https://doi.org/10.31481/uhmj.29.2022.01>

These activities contributed to the validation of ClimEd approaches, strengthening of international academic cooperation and promotion of climate services education at global level.

4 Conclusions

ClimEd ensured a high level of outreach through a broad range of international and national activities, including conferences, roundtables, workshops and scientific dissemination. The project achieved strong visibility within both academic and professional communities and effectively contributed to the promotion of climate services education, climate change adaptation and mitigation strategies.

The outreach activities enhanced awareness of ClimEd results, facilitated knowledge transfer and stakeholder engagement, and supported the integration of project outcomes into education, research and practice. Overall, D.7.4 demonstrates that ClimEd has achieved substantial impact beyond the consortium and established a strong foundation for continued dissemination and exploitation of its results at national and international levels.