



# EMME-CARE

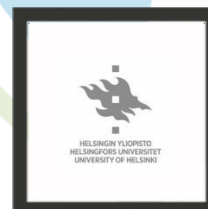
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MIDDLE EAST – CLIMATE &  
ATMOSPHERE RESEARCH CENTRE

HORIZON 2020 – WIDESPREAD-2018-01-TEAMINGPHASE2

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## D9.9 Sixth Annual Report contents of the PDER, knowledge and data management, and IPR protection, communication, outreach & public engagement

August 2025



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## 1. Introduction

This document refers to Deliverable “**D9.9: Sixth Annual Report contents of the PDER, knowledge and data management, and IPR protection, communication, outreach & public engagement**”, and discusses activities that occurred during M61 – M72 (September 2024 – August 2025).

More specifically, this deliverable addresses the above in relation to the contents of the ‘PDER – Plan for the Dissemination and Exploitation of Results’, which is linked to Task 9.1.c: “Monitoring the different contents of the PDER (led by the Cyprus Institute [Cyl])”, knowledge and data management, and IPR protection linked to Task 9.2 of the same name (led by Cyl), and communication, outreach & public engagement linked to Task 9.3 of the same name (also led by Cyl).

## 2. Contents of the PDER

This section outlines the Sixth Annual Report on the contents of EMME-CARE’s PDER as these link to the Cyl-led **Task 9.1.c: Monitoring the different contents of the PDER**, which includes:

- Scientific articles and publications, conferences and workshops.
- Brochures, leaflets and e-Newsletter.
- Website.
- Dissemination activities related to national and regional clusters, and R&D and student mobility programmes.

In the context of the above, the Sixth Annual Report also includes mentions of any other relevant activities undertaken during the reporting period of M61 – M72.

### 2.1 Scientific articles and publications, conferences and workshops.

#### Scientific Articles and Publications

As already clarified in previous reports, (see in D9.7 and in D9.8) for consistency purposes, the reporting convention followed by the CoE for scientific articles and publications is being conducted in line with the reporting timelines and requirements set forth by the Cyprus Institute. Accordingly, the CoE gathers information on scientific articles and publications in two intervals each year: January – June, and July – December. More specifically, for the numbers quoted in this section, information quoted for years up to 2024 represent scientific articles and publications for each respective *calendar* year, whilst for the year 2025, scientific articles and publications reported in this deliverable represent the period January – June 2025.

Regarding peer-reviewed scientific publications, as already stated in the Grant Agreement (section 2.2.2) and D9.3 Data Management Plan (Open Data Pilot) the CoE continues to prioritize Open Access in line with Open Science principles.

#### Publications through the years:

In 2024, the CoE has reported one hundred and seventeen (117) EMME-CARE scientific articles and publications. 59% of publications in 2024 have been published in top 25 cited journals (according to the Scimago Journal & Country Rank). It should also be noted that all three of EMME-CARE’s Advanced Partner PIs were recognized amongst the world’s Highly Cited Researchers in the 2024 list announced by Clarivate / Web of Science.

For reference, a bar chart visualizing this information for 2009 – 2024 is included below.

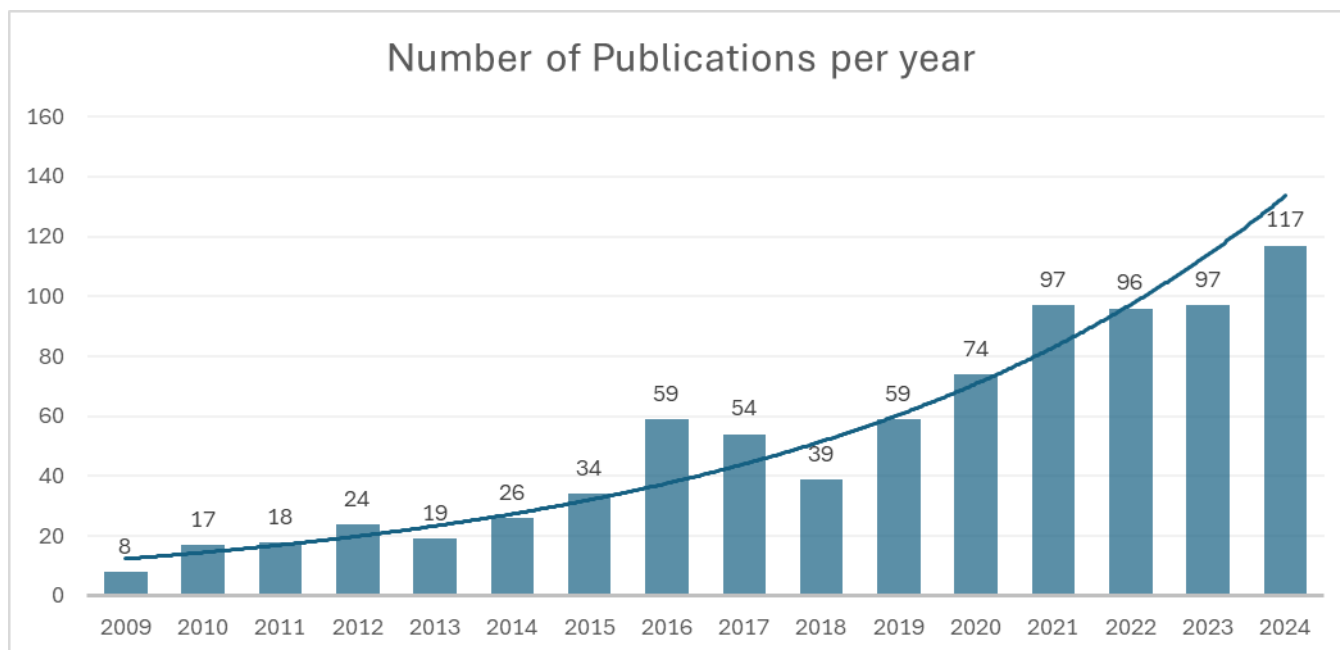


Figure 2.1.1: Publications through the years.

So-far in 2025 (January – June), EMME-CARE counts 14 published journal publications. The list of publications for the CoE per full calendar year can be found on the dedicated webpage on the EMME-CARE website (<https://emme-care.cyi.ac.cy/publications/>). This ensures that the latest information about CoE publications is openly accessible by all interested and organized by year in a user-friendly way. The website also allows the user the functionality of searching through publications, hence enhancing their findability.

### Conferences and Workshops

During the 2024 calendar year the CoE had **eighty-nine (89)** presentations and/or participations in scientific conferences, workshops and trainings. So far in 2025 (January – June), the CoE has presented and participated in **twenty-eight (28)**, contributing to the dissemination activities of the Center. The CoE has also successfully organized and hosted workshops and trainings aimed at raising the profile of the CoE and enhancing its visibility, network and reach within scientific and other specialist communities. Some highlights are included below.

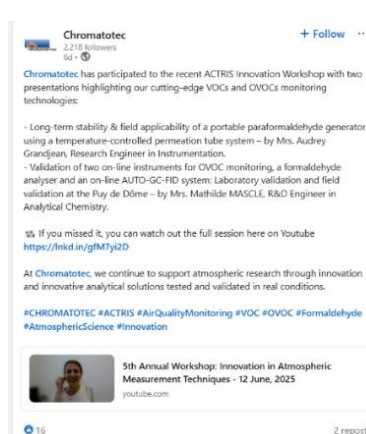
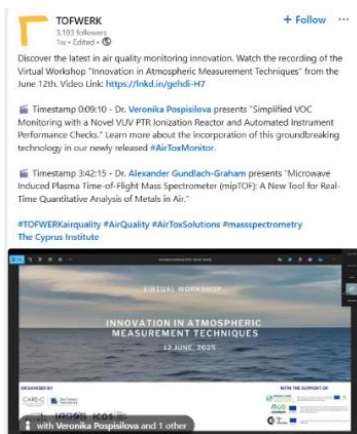
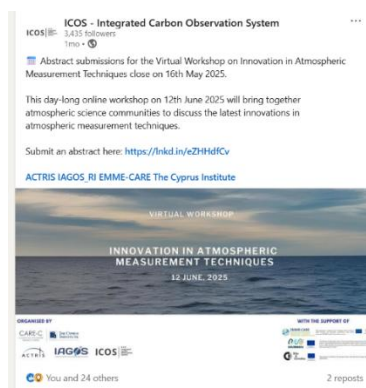
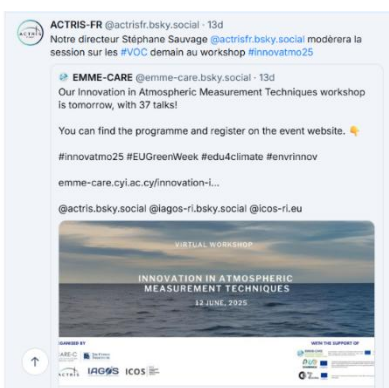
#### **Virtual Workshop: Innovation in Atmospheric Measurement Techniques, 12 June 2025**

On June 12th, 2025, EMME-CARE, in collaboration with the three EU Research Infrastructures - ACTRIS, ICOS, and IAGOS - co-hosted the 5th Workshop on Innovation in Atmospheric Measurement Techniques as a Partner Event of the EU Green Week 2025. The event was organized by CARE-C, with support from the EMME-CARE, Edu4Climate, and ENVRINNOV Horizon projects.

Through a full day of sessions and talks, this workshop brought together atmospheric science communities to discuss the latest innovations in atmospheric measurement techniques. Participants had the opportunity to discuss and find out about new technologies, products, services, and instrumentation and access visibility of opportunities for R&D collaborations. The Workshop gathered over 270 participants from 52 countries and created a unique platform for networking and knowledge-exchange between key contacts from academia, private companies, the public sector and NGOs.



Figure 2.1.2: Screenshot from the opening of 2025 Innovation Workshop in Atmospheric Measurement Techniques.



Figures 2.1.3, 2.1.4, 2.1.5 & 2.1.6: Screenshots of social media posts from participants of 2025 Innovation Workshop in Atmospheric Measurement Techniques

## Winter School at Hyytiälä Forest Station in Finland, 2025

From the 3<sup>rd</sup> to the 14<sup>th</sup> of March 2025 the annual Winter School on ‘*Advanced Analysis of Atmosphere-Surface Interactions and Feedbacks*’, was hosted by The Institute for Atmospheric and Earth System Research (INAR) of the University of Helsinki (UH), in collaboration with the EMME-CARE Consortium, including CARE-C. The school was a unique collaboration between international students and experts in the fields of atmospheric and terrestrial ecosystem science, taking place at the Hyytiälä Forest Station in Finland. At the epicentre of the Forest Station was the multidisciplinary Station for Measuring Ecosystem-Atmosphere Relations (SMEAR) II, which gives access to 1200+ parameters from underground soil processes all the way to atmospheric conditions 125 m over ground.

The aim of this school was to give context and meaning to raw data acquired from stations around the world, giving valuable insight into the diurnal or seasonal patterns of various environments. The tasks of the course were split into four thematic groups, with a noteworthy one dealing with the differences between Cyprus and Finland. The work done in this group greatly benefited from the open-access databases provided by both the Cyprus Atmospheric Observatory (CAO) and the SMEAR. Guided by the teachers and technical assistants, the students visualized and interpreted differences in the two locations, from meteorological factors, all the way to trace gas fingerprints, major emission sources, and aerosol dynamics.



Figure 2.1.7: Photo from the 2025 Winter School (3/3/2025-14/3/2025)

## Autumn School ‘Drones and Sensors in Atmospheric Sciences’ in Cyprus, 2024

The 3<sup>rd</sup> Autumn School, organised by CARE-C, entitled “Drones and Sensors in Atmospheric Sciences” took place on 11 November to 15 November 2024. The week-long course was held at the Cyprus Institute’s premises in Nicosia, Cyprus and it was attended by 14 students from 14 different countries including Lebanon, Finland, India, Portugal, Pakistan and other.

The main focus of this year’s Autumn School was the operation and scientific exploitation of Unmanned Aerial Vehicle (UAV) sensor systems in atmospheric sciences. The students had the opportunity to visit some of the Centre’s facilities such as the Unmanned Systems Research Laboratory (USRL) UAV airfield and the Ayia Marina Xyliatou station of the Cyprus Atmospheric Observatory, where they learned more about atmospheric data measurements through the Centre’s bespoke UAVs and ground-based instruments. They were also offered theoretical and hands-on training on the technical operation of sensors in the lab as well as computer-based data processing.

This Autumn School was organized within the framework of the H2020 Teaming Project EMME-CARE ([emme-care.cyi.ac.cy](http://emme-care.cyi.ac.cy)), and the Horizon Europe project Edu4Climate ([edu4climate.cyi.ac.cy](http://edu4climate.cyi.ac.cy)). Course organization was led by CARE-C, The Cyprus Institute, with the contribution of the EMME-CARE Advanced

Partners and the Edu4Climate Consortium partners.



Figure 2.1.8: Photo from the 2024 Autumn School (11/11/2024-15/11/2024)

### **3<sup>rd</sup> International Conference on the Climate Crisis in the Eastern Mediterranean and Middle East, 26-28 September 2024**

Numerous members of CARE-C played a key role in the success of the international conference on the ‘Climate Crisis in the Eastern Mediterranean and the Middle East’ held from September 26-28, 2024, at Radisson Beach, in Larnaca, Cyprus. Organized by the Cyprus Institute and the Cyprus Academy of Sciences, Letters, and Arts, the event brought together prominent scientists and policymakers from 22 countries to discuss scientific data and explore strategies for adaptation and mitigation in the Eastern Mediterranean and Middle East (EMME) region. The conference attracted over 250 participants.

The Director of CARE-C, Prof. Jean Sciare, alongside distinguished partners of the EMMECARE teaming project - Prof Philippe Ciais, Prof. Jos Lelieveld, and Prof. Markku Kulmala - led a panel session titled ‘*The Evolving Climate Crisis: The Scientific Basis.*’ The session highlighted the key climate challenges facing the EMME region, including air pollution, extreme heat, and the role of greenhouse gas emissions and other pollutants. The panellists also explored potential solutions to these crucial issues. In another panel session, Assoc. Prof. Panos Hadjinicolaou and Dr. George Zittis discussed the impacts of extreme events such as heatwaves, droughts, and floods on public health, providing valuable insights into the growing risks these phenomena pose to the region.

Additionally, Dr. Marco Neira, Dr. Kamil Erguler, and Prof. Jos Lelieveld organized a pre-conference workshop on 24-25 September 2024, titled ‘*Climate and Health in the Urban Environment.*’ This event brought together 21 researchers, from eight different countries, to discuss recent scientific advances on the health effects of extreme temperatures, air pollution, and vector-borne diseases.

Prof. Costas Cartalis and Assoc Prof. Panos Hadjinicolaou also led a workshop on 25 September 2024 on ‘*Urban Overheating in the Mediterranean and the Middle East-North Africa.*’ This workshop gathered climate science experts from the region to present and discuss scientific progress in the monitoring, analysis, and prediction of the urban heat island and mitigation strategies of its associated impacts and it included contributions from Action 2.3 ‘*Climate Crisis and Urban heat Island*’ of the CLIMPACT project in Greece (‘*National Network for Research on Climate Change and its Impacts*’). CARE-C researchers and PhD students participated in both workshops.

Finally, Dr. Marco Neira coordinated the conference’s poster session, which featured contributions from CARE-C researchers and PhD students. The conference was supported by the EMME-CARE project.



Figure 2.1.9: ‘The Evolving Climate Crisis: The Scientific Basis’ panel session

## 2.2 Brochures, leaflets and e-Newsletter.

As already mentioned in previous reports (D9.4 - D9.7), the CoE has already produced a variety of print and video material. Updated versions of the leaflets, brochures and videos of the CoE are always accessible in digital format through the CoE website (<https://emme-care.cyi.ac.cy/news/#br>).

### Research Highlights

The Research Highlight initiative, launched in January 2024, to further promote the high-quality research produced and published by the CARE-C researchers, continued in 2025. This is featured on the EMME-CARE website (<https://emme-care.cyi.ac.cy/research-highlights/>), disseminated via social media, and distributed through the CARE-C community email list.



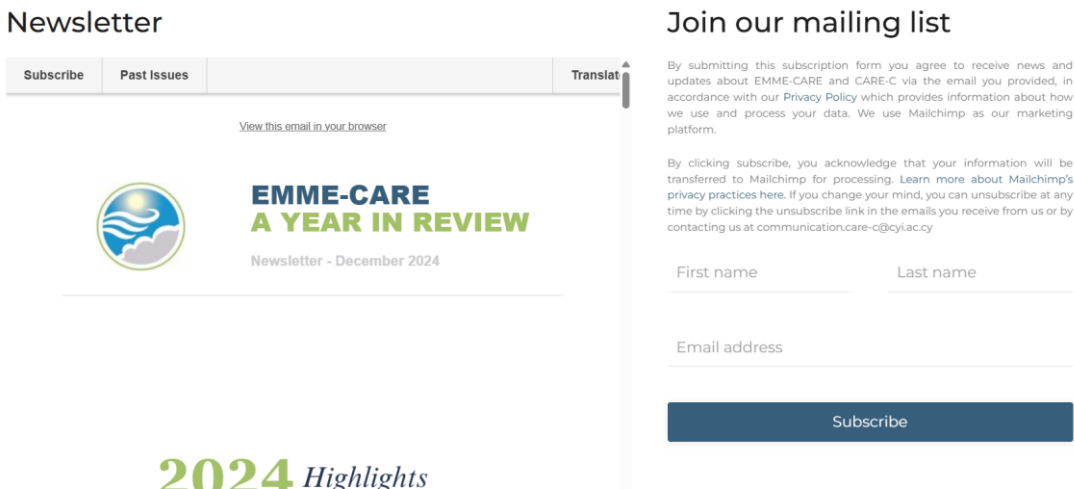
Figure 2.2.1 Screenshot of the May 2025 Research Highlight

### e-Newsletter

As reported in D9.4 - D9.8, the EMME-CARE newsletter is prepared and circulated to the CoE’s mailing list,

and includes articles, news items and updates from the CoE and its Advanced Partners. The latest issue of the e-newsletter was circulated to the mailing list in December 2024 with title: “A year in review: 2024 Highlights” and it is available on the EMME-CARE website. All issues of the e-newsletter are accessible at any time through the CoE website at <https://emme-care.cyi.ac.cy/news/#nl>.


To better complement and minimize duplication with the continuous updating of the News Section of the EMME-CARE website, and mailings to promote sign-up to CoE events, workshops and training, the e-Newsletter has been revamped into a year-in-review update. A mailing list sign-up form remains available on the EMME-CARE website to further encourage sign up.



**Newsletter**

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 **EMME-CARE**  
**A YEAR IN REVIEW**  
Newsletter - December 2024

**2024 Highlights**

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By clicking subscribe, you acknowledge that your information will be transferred to Mailchimp for processing. Learn more about Mailchimp's privacy practices here. If you change your mind, you can unsubscribe at any time by clicking the unsubscribe link in the emails you receive from us or by contacting us at [communication.care-c@cyi.ac.cy](mailto:communication.care-c@cyi.ac.cy)

First name Last name

Email address

Subscribe

Figure 2.2.2.: Screenshot of the EMME-CARE newsletter sign up link on the website landing page.



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 **EMME-CARE**  
**A YEAR IN REVIEW**  
Newsletter - December 2024

**2024 Highlights**

As we reach the end of yet another remarkable year, we'd like to invite you to take a moment to reflect on it together. From high-quality research and scientific advancements to international events, exciting collaborations, and much more - 2024 has been a testament to progress and teamwork.

None of this would have been possible without the dedication of our 100+ CARE-C team members, including renowned scientists, engineers, and administrators, as well as the unwavering support of our valued partners, collaborators, and contributors.

Thank you for being an integral part of our mission to combat air pollution and address climate change in the Eastern Mediterranean and Middle East. The journey ahead is both exciting and vital, and we're thrilled to continue this important work with you in the coming year.

Wishing you a joyful festive season and a successful start to 2025!

**Key Scientific Findings**

Figure 2.2.3.: Screenshot of the 2024 EMME-CARE newsletter

## 2.3 Website

Further to the upgrades and developments mentioned in previous reports, the dedicated website (<https://emme-care.cyi.ac.cy/>), continues to be updated regularly in technical and content aspect, allowing

to increase the impact and visibility of the CoE to the general public as well as to promote its objectives and work to the scientific community and researchers on the field.

This section outlines:

- a) Website Performance Metrics
- b) Annual maintenance upgrades (M61– M72)

### a) Performance metrics of the website

As already outlined in previous reports, the CoE tracks website traffic and related visitor metrics for its site, that are analysed to optimize the CoE’s approach to marketing, user experience and server performance. Indicatively, during the M61-M72, the analysis shows that the site has been visited by 7000+ new users, allowing the CoE to determine the visits to the website that can be compared with CoE promotional activities, contributing to measuring and assessing their impact, and adjusting them in real time for maximum effect. In line with GDPR the functionality of this tool is covered in the Privacy Policy and Cookie Policy readily available and easily accessible at all times through the footer of the EMME-CARE site.

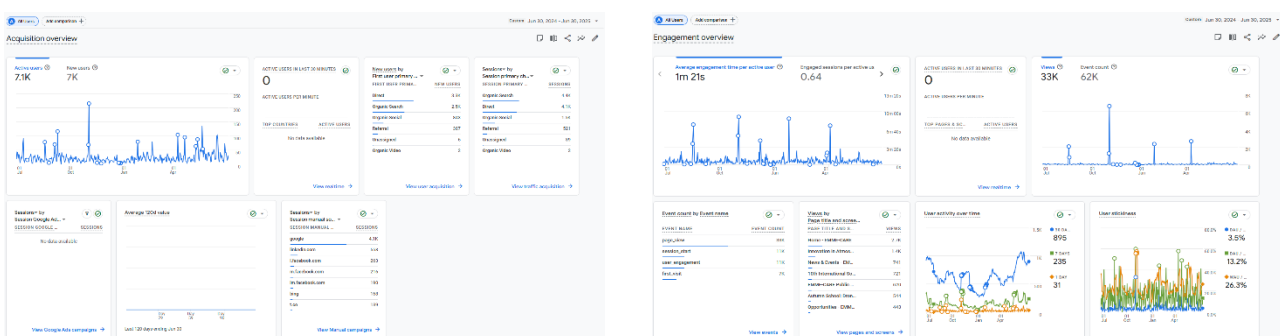


Figure 2.3.1: Screenshots of CoE website traffic metrics dashboard

### b) Annual maintenance upgrades (M61 – M72)

An advanced security solution was implemented to strengthen the website’s online infrastructure. The new security enhancements include real-time threat detection, firewall protection, malware scanning, and login security features designed to block malicious traffic and brute-force attacks. Additionally, automated monitoring and alerts ensure rapid response to suspicious activities, contributing to overall website resilience and availability. These measures are regularly updated and comply with current cybersecurity best practices and EU data protection standards.

## 2.4 Other dissemination activities related to national and regional clusters, and R&D and student mobility programmes.

During the reporting period for this deliverable (M61 – M72), the CoE has further strengthened and expanded its growing network of national, regional and international clusters with a variety of stakeholders from academia, the public and private sectors as well as NGOs and International Organizations, as these were first established and reported in D9.4 (for M1-M12) as well as consequent reports. Relevant updates below.

### Updates on EMME-CARE National Clusters

During the reporting period, the CoE has expanded its network of national eco-innovation clusters through innovation activities as these were reported in the RP4 Technical Report (1.2.8). It has also expanded its support of Cyprus Government Departments, including an expanded collaboration with the Department of Meteorology towards establishing Open Weather Data for Cyprus.

### Updates on Regional and International Clusters

During this referenced period, the CoE has been strengthening and expanding its regional collaborations, including through:

- MoU signing with the Municipality and Planning Department of Ajman (UAE) on Environmental Sustainability and Clean Energy, October 2024
- Joint publication and press release on the results of the shipborne expedition conducted by CARE-C, MPIC and the Environmental Agency Abu Dhabi, revealing gaps in regional emissions inventories in the EMME.
- Joint activities between CARE-C and the Ministry of Environment of Egypt to better air quality in Cairo as part of two projects funded by the World Bank.
- The Director of CARE-C was invited in the Scientific Committee of the 1<sup>st</sup> International Conference on Sand and Dust Storms in Riyadh, Saudi Arabia on 4th-6th of March 2024.

In addition, the CoE has also expanded its international networks, including through:

- CARE-C leading the development of the first doctoral network dedicated to atmospheric mineral dust in Europe as part of new MSCA Doctoral Networks programme.
- CARE-C presenting at the Week of Innovative Regions in Europe Conference. November 2024.
- CARE-C at the RI Conference by the Belgian Presidency of the European Council. June 2024; as coordinator of the Horizon Europe funded project ENVRINNOV, creating a common innovation roadmap for European Research Infrastructures in the Environment domain.

Other networks, in which the CoE remains engaged are featured below.



Figure 2.4.1.: Creating a bridge between top R&I network and the EMME Region

### Student Mobility Programmes

As already mentioned in previous reports (D9.4-D9.8), and outlined in section 1.1.4.2 of the Grant Agreement, and in accordance with the scope and objectives of WP3 Education and Training, with the support of its Advanced Partners, the CoE aims to become a regional hub for student exchanges

between EU and the EMME region, as well as promote wider international exchanges. During M61-M72, the CoE is working continuously to build on establishing new networks and collaborations as well as to promote international mobility.

## **1. Erasmus+ Incoming activities for the period 01/09/2024 to 31/08/2025**

### **Student mobility for training from the University of Strasbourg (02/06/2025-29/08/2025)**

The objective of the mobility was to provide the incoming student with hands-on experience in the field of environmental monitoring, particularly in relation to air pollution and greenhouse gases (GHGs). Hosted at The Cyprus Institute's Climate and Atmosphere Research Centre (CARE-C) and the Cyprus Atmospheric Observatory (CAO), and in collaboration with the startup AeTex, the traineeship focused on the development and operation of advanced atmospheric measurement instrumentation. The student gained practical experience with in-situ measurement platforms, contributed to the development and optimization of data collection devices, and supported the analysis of atmospheric data, especially related to GHGs. The mobility aimed to strengthen the intern's technical and scientific competencies in climate science and instrumentation within a leading international research environment.

### **Student mobility for training from the Higher Institute of Advanced Materials and Mechanics (ISMANS CESI) (16/06/2025-12/09/2025)**

The objective of the mobility was to provide the intern with practical experience in the application of non-destructive testing (NDT) methods within the context of drone design and assembly. During the first period, the intern analyzed drone components to identify critical areas for inspection, benchmark suitable NDT tools based on design specifications, and proposed design modifications to improve future inspectability. In the second period, the intern implemented and tested selected NDT procedures on drone assemblies, evaluated the inspection results, suggested adjustments to improve inspection outcomes, and contributed to the development of final technical protocols and documentation. This traineeship aimed to enhance the intern's ability to integrate inspection requirements into mechanical design and gain hands-on experience in drone testing and quality assurance processes.

## **2. Transferable Skill Courses (TSC) 01/09/2024 TO 31/08/2025**

Three PhD students from CARE-C attended the TSC in "*Proposal Writing: First steps to Horizon Europe / RIF*" that was offered in February – March 2025. The course's main objective was the introduction to preparation for Horizon and RIF Calls. The purpose is for the students to be able to submit proposals once they become Post Docs.

Learning outcomes:

- familiarize with ECAS
- familiarize with IRIS
- to be able to successfully submit proposals with good results

## **3. International Dual Degree PhD**







During this reporting period, six PhD students engaged in Joint/Dual Degrees with the following

Universities: University of Paris-Saclay, University of Helsinki, the National and Kapodistrian University of Athens, and the Technical University of Darmstadt.

#### **4. Stakeholder Mapping**

As reported in D9.8, the Consortium has created a template format that has allowed it to review and categorize its relations with all actors (beyond the Consortium) that are *directly* engaged with the CoE and the EMME-CARE project. This functions as a “live record” regularly reviewed and updated by the Consortium in line with relevant EMME-CARE reporting periods. As such, it also serves as a tool for ensuring relevance and efficiency of audience segmentation and planning of DEC efforts.

For mapping purposes, stakeholders were organized in the following categories:

-  **Consortium Partner**, partners in funded project
-  **Partner**, have signed an MoU
-  **Collaborator**, purpose-driven collaboration / collaboration agreement
-  **Regional Professorship Program**, part of the EMME-CARE RPP
-  **Service users**, recipients of CoE services or products
-  **Other**, any other type of relationship for stakeholders directly engaged with EMME-CARE

At the time of writing of this deliverable, EMME-CARE directly engages with stakeholders from **287 organizations (collaborations with 73 new organisations during this reporting period)**, across **44 countries**, from academia, international organizations, public sector & government, third sector / NGOs as well as private companies. An updated breakdown per type of organization is included below.

<i>Type of Organization</i>	<b>Number per Organization type</b>	<b>Percentage per Organization type</b>
<i>Academic</i>	108	37.6%
<i>Public</i>	95	33.1%
<i>Private</i>	62	21.6%
<i>NGO</i>	17	5.9%
<i>International Organizations</i>	5	1.7%

The above information is guiding the dissemination, and exploitation activities of the Consortium in planning its activities for the next reporting period, while it will also act as a helpful basis in further developing its exploitation plan within the context of WP8 activities.

### **3. Knowledge and Data Management and IPR Protection**

This section outlines relevant updates relating to **Task 9.2 Knowledge and Data Management, and IPR Protection**, led by the Cyprus Institute.

#### **3.1 Data Management Plan and FAIR Strategy**

##### **D9.3: Data Management Plan (Open Data Pilot)**

D9.3: Data Management Plan (Open Data Pilot), is describing the overall approach for producing, collecting and processing research data for EMME-CARE and the Research Departments and Infrastructure Units that have been consolidated in the context of the CoE, including the CoE’s FAIR Strategy. The Deliverable

9.3 “Data Management Plan (Open Data Pilot)”, was submitted in February 2020, outlining version 1.0 of the Data Management Plan (DMP), including the FAIR Strategy. Following feedback received in the context of EMME-CARE’s First Review meeting for RP1, Deliverable 9.3 - Open Data Pilot was updated to include improvements related to DMP and was resubmitted in March 2021. Finally, during RP4, Deliverable D9.3, was revised and resubmitted again in March 2025 (M66), to reflect the latest updates.

## 3.2 Formulation and revision of IPR strategy, specifically in the context of exploitation activities

As already reported and presented within the framework of the EMME-CARE 3<sup>rd</sup> Periodic Review Report, and in detail in submitted deliverable D9.9 the IPR strategy of the CoE has been reviewed and revised as necessary. No changes have been necessary since the update reported in D9.8.

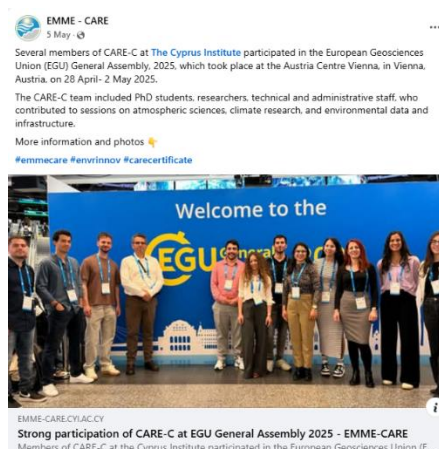
## 4. Communication, Outreach & Public Engagement

This section outlines the Sixth Annual report on EMME-CARE Communication, Outreach & Public Engagement as these link to **Task 9.3 Communication, Outreach and Public Engagement**, led by the Cyprus Institute.

### 4.1 Creation and updating of social media profiles and public forum

As already reported previously, CoE social media accounts were created from the first months of the project and continue to be active, aiming to speak to various stakeholders across Facebook, X, LinkedIn and Research Gate.

The CoE’s efforts have culminated in a steady expansion of its online community, with 2,374 followers for CoE social media platforms which the CoE aims to continue to grow. Indicatively, at the time of writing (August 2025) the EMME-CARE X account has brought its total follower count to 760 followers. Similarly, the CoE’s Facebook Page has gathered a sizeable support of 799 followers, an 1.9% increase since August 2024. Finally, the EMME-CARE LinkedIn page has attracted 862 followers, an increase of 205 followers since August 2024.



Figures 4.1.1 & 4.1.2: Screenshots of CoE social media posts on Facebook (left: CARE-C research staff offering training at the Saudi National Center for Meteorology, 10/6/2025) and (right: CARE-C staff participation at EGU 2025, 5/5/2025)

## 4.2 Giveaways, memorabilia and distribution of promotional material

The CoE continues to make good use of the promotional material created (see D9.4) to continue to develop the impact and visibility of the CoE, including through the creation of “briefing packs” to delegations of formal visits to the CoE as well as distribution in formal meetings with external contacts, and in the context of other events organized and hosted by the CoE as appropriate.

## 4.3 Organisation of Climate Conference series

A 3<sup>rd</sup> iteration of an International Conference on Climate Change in the EMME was co-organized by the Cyl and took place on 26-28 September 2024, in Cyprus. Within the framework of the conference, two pre-conference workshops were held on 24 and 25 of September, organised by CARE-C researchers focusing on ‘Climate Change and Health’ (24-25 September) and ‘Urban Overheating in the Mediterranean and the Middle East-North Africa (25 September), while CARE-C faculty and researchers strongly contributed with invited participations to the Conference (See section 2.1 for more details).

## 4.4 Outreach and Public Engagement Events

Over the period reported in this deliverable, the CoE has organized, actively participated and attended several outreach and public engagement events to enhance its visibility and impact.

These contributed to the growth of the public forum created with the EMME-CARE stakeholder community and the wider public at large, primarily through face-to-face events and activities enhancing the promotion of the Center.

More information and selected highlights from outreach and public engagement events the CoE has organized or participated during the reporting period of this deliverable, are outlined below. The latest information about upcoming CoE events as well as previous participation/organization of events, can be found on the dedicated webpage of the EMME-CARE website (<https://emme-care.cyi.ac.cy/news/#ue>).

### **CARE-C’s CAO school presentation for Earth Day**

Members of the Cyprus Atmospheric Observatory (CAO) team at CARE-C, joined the effort of the Cyprus Research and Innovation Foundation – RIF, on the occasion of Earth Day 2025, to raise awareness about climate change and its impacts, by delivering a presentation on this topic to high school students.

Dr Michael Pikridas, Associate Research Scientist at CARE-C, gave a presentation on “*Climate change, air pollution, health impacts and other tales from the natural World*”, which was prepared in collaboration with Senior Technical Research Specialist Dr Rima Baalbaki and Senior Research Affiliate Mr Filippos Tymvios, to students of the American Academy of Nicosia, on 2 May, 2025.

The presentation was part of the programme ‘*Researchers at Schools*’ (“Ερευνητές και Ερευνήτριες στα Σχολεία”), which aimed to increase contact and interaction of primary and secondary students and educators with researchers from all research fields in Cyprus, enhancing students’ interest in the fields of science, research and innovation.

At the same time, the programme aimed to raise awareness on climate change issues and what the students as individuals can do about it.



Figure 4.4.1: Photo from the school presentation, 02/05/2025

### CARE-C at the 2025 sCYence Fair

Researchers and other staff from CARE-C took part at the 2024 “sCYence Fair”, organised by the Cyprus Institute, on 4-5 April 2025.

Researchers from the Emissions Reporting team set up and presented the **3-D Emissions Web** booth, where visitors could explore how greenhouse gases and air pollutants are produced and spread across Cyprus. The activity invited people to build a colourful web by linking sources of emissions, like transport, wastewater, or energy industries, to the pollutants they release. It was a hands-on way to learn about where these pollutants come from and to start conversations about what we can do to reduce them and improve air quality.

Several CARE-C research scientists also took part in the event as members of the Evaluation Committee, reviewing the school team projects. CARE-C admin staff volunteered on the day as well, helping to make sure everything ran smoothly.

“sCYence Fair” aims to stimulate scientific interest and to encourage participation by young students and nurture the future generation of Cypriot scientists. The event, which over 90 student teams from more than 50 schools across Cyprus participated in, provided an opportunity for young scientists to increase their awareness of the wonders of science, add to their knowledge and broaden their scientific horizons.



Figure 4.4.2: Photo from the CARE-C booth at sCYence Fair, 04/04/2025

## CARE-C researchers take part in Women in Science event

Associate research scientists at CARE-C, Dr Maria Kezoudi and Dr Katiana Constantinidou took part in an inspiring event entitled “*Five Women Role Models Breaking Stereotypes and Shaping the Future of Science*”, which was co-organised by the Friends of The Cyprus Institute and AIPFE Cyprus–Women of Europe, in collaboration with The Cyprus Institute. It took place on April 9, 2025, at the Cyprus Institute premises in Nicosia.

Through an engaging panel discussion, five distinguished speakers from the Cyprus Institute – Dr Efthymia Nikita, Dr Anixi Antonakoudi, Dr Katiana Konstantinidou, Dr Valeria Philippou and Dr Maria Kezoudi – shared their personal stories, touching on issues such as unconscious bias and other challenges they faced throughout their career, as well as the importance of encouraging more women to take part and lead in STEAM fields. This event highlighted the role of women’s participation in science, inspiring other young women to overcome the challenges they face in their careers.



Figure 4.4.3: Photo from the ‘*Five Women Role Models Breaking Stereotypes and Shaping the Future of Science*’ event, 09/04/2025

## CARE-C Researchers at European Researchers’ Night 2024

Researchers of CARE-C, alongside other colleagues from the Cyprus Institute, participated in the 2024 European Researchers’ Night, which took place on 27 September, 2024, at the State Fair in Nicosia (<https://events.ringcentral.com/events/ern24-mission-possible-cyprus>).

Cyprus and the whole Middle East Region will likely be greatly affected by climate change, and emission inventories are a key part of monitoring pollutants and greenhouse gases from local and regional sources. CARE-C emission specialists Corey McClintock and Marios Christoforides prepared and presented interactive games that focused on greenhouse gas and air pollutant emissions from anthropogenic activities and the impact on health and the environment.

The activities were augmented with visuals demonstrating spatialized applications and relevant research projects. The activities were designed so that visitors, particularly young ones, could participate hands-on to learn about these inventories in Cyprus, contextualize the emissions, and explore mitigation options

European Researchers’ Night is a science outreach event organized on the same date across Europe, creating a space for researchers to share their work with the public. Researchers are encouraged to emphasize interaction in their booth designs, thus engaging the public through presentations, experiments,

games and discussions.

The event, which is organized for the 18th year in Cyprus by the Research and Innovation Foundation (RIF), managed to attract the interest of young and old alike. The event was held under the auspices of the President of the Republic of Cyprus, Mr. Nicos Christodoulides, and was attended by hundreds of researchers and entrepreneurs from universities, research organisations, centres of excellence and innovative companies from all over the country. It is noteworthy that more than 3000 students visited the event.



Figure 4.4.5. Photo from Researchers Night 2024- 27/09/2024

## 4.5 CoE Website Upgrade and scoping of web and mobile-app creation

Following the website upgrade and migration to a new, faster, and more secure server (see D9.8), which significantly enhanced website availability and security, there was no other major upgrade to the CoE website. Daily backups are in place to ensure data integrity and enable full recovery in the event of a system failure.

## 4.6 CoE Press Coverage

As part of its communication, outreach and public engagement activities, the CoE plans for targeted, and timely press releases, features in articles and news items as well as public appearances leading to coverage by the traditional print and broadcast media (incl. articles in newspapers and magazines, and features on radio or TV) to maximize its visibility and impact.

During the calendar year 2024, CARE-C has had 228 press mentions, while during the reporting period of this deliverable, this totalled 168 press mentions, including interviews and dedicated features, in various digital and print outlets in at least three (3) different languages.

### Press Highlights

 24 April 2025- Associate Research Scientist Maria Kezoudi interview– Women in Science event



Figure 4.6.1: CYBC TV

- 26 March 2025- CARE-C Director Prof Sciare won the 2024 'Cyprus Research Award – Distinguished Researcher', in the Physical Sciences and Engineering category.



Figure 4.6.2: Alpha news

- 18 February 2025 - New AI-powered research by CARE-C estimates the tree population in Cyprus



Figure 4.6.3: In-Cyprus - Philenews

- 18 December 2024- Assistant Professor Efstratios Bourtsoukidis interview about Gaps In Methane Emission Reporting In The Middle East



Figure 4.6.4: CyBC Apo Mera se Mera

- 18 December 2024 - Climate Change and Air Pollution Could Risk 30 Million Lives Annually by 2100 - notes a New Study by CARE-C Researchers



Figure 4.6.5: Ant1 Live

- 15 November 2024 - The Director of CARE-C, on behalf of the Cyprus Institute and the Municipality and Planning Department of Ajman (UAE) Sign MoU on Environmental Sustainability and Clean Energy



Figure 4.6.6: Dubai Eye

## 5. Contribution of EMME-CARE Advanced Partners to PDER, Communication, Outreach & Public Engagement Activities

The CoE continues to collaborate closely with its Advanced Partners on PDER, Communication, Outreach & Public Engagement Activities, through its established mechanisms and contact points, reported on in previous deliverables. An indicative record of some of the activities that have been undertaken by Advanced Partners during the reporting period is outlined below.

### University of Helsinki

News items for the EMME-CARE website and social media

**University of Helsinki a supporter of the International Conference on Climate Crisis in the EMME region:** Prof. Markku Kulmala from the University of Helsinki was amongst the main contributors of the ‘Climate Crisis in the Eastern Mediterranean and the Middle East’ conference, held from September 26-28, 2024, at Radisson Beach, in Larnaca, Cyprus. Prof Kulmala was one of the keynote speakers, who participated in the panel session titled ‘*The Evolving Climate Crisis: The Scientific Basis.*’ The session highlighted the key climate challenges facing the EMME region, including air pollution, extreme heat, and the role of greenhouse gas emissions and other pollutants. The panellists also explored potential solutions to these crucial issues.



Figure 5.1.1: Prof. Markku Kulmala presentation at the International Conference on Climate Crisis in the EMME region, 26 September 2025

**University of Helsinki a co-organiser of the 4th EMME-CARE Winter School: Advanced Analysis of Atmosphere-Surface Interactions and Feedbacks (3 March-14 March 2025):** The Institute for Atmospheric and Earth System Research (INAR) of the University of Helsinki (UH), in collaboration with EMME-CARE organised and hosted the 4<sup>th</sup> Autumn School on “Advanced Analysis of Atmosphere-Surface Interactions and Feedbacks” on 3 Mar–14 Mar 2025. The course was organized within the framework of the H2020 Teaming Project EMME-CARE (emme-care.cyi.ac.cy), Course organization was led by INAR of the University of Helsinki, with the contribution of the EMME-CARE Advanced Partners.



Figure 5.1.2 EMME-CARE Winter School 2025

## CEA

**CEA a supporter of the International Conference on Climate Crisis in the EMME region:** Prof. Philippe Ciais from CEA was one of the contributors of the ‘Climate Crisis in the Eastern Mediterranean and the Middle East’ conference, held from September 26-28, 2024, at Radisson Beach, in Larnaca, Cyprus. Prof Ciais was one of the keynote speakers, who participated in the panel session titled ‘*The Evolving Climate Crisis: The Scientific Basis.*’



Figure 5.1.3: Prof. Philippe Ciais presentation at the International Conference on Climate Crisis in the EMME region, 26 September 2025

**CEA a supporter of the 3rd EMME-CARE Autumn School: Drones and Sensors in Atmospheric Sciences (11 November – 15 November 2024):** The Cyprus Institute (Cyi), Eastern Mediterranean Middle East – Climate & Atmosphere Research Centre (EMME-CARE) organised the 3rd Autumn School “Drones and Sensors in Atmospheric Sciences” on 11 Nov–15 Nov 2024. The course was organized within the framework of the H2020 Teaming Project EMME-CARE ([emme-care.cyi.ac.cy](http://emme-care.cyi.ac.cy)), and the Horizon Europe project Edu4Climate ([edu4climate.cyi.ac.cy](http://edu4climate.cyi.ac.cy)). Course organization was led by CARE-C, The Cyprus Institute, with the contribution of the EMME-CARE Advanced Partners and the Edu4Climate Consortium partners, including guest lectures by CEA’s Dr Jean-Daniel Paris.

## MPIC

**MPIC a supporter of the International Conference on Climate Crisis in the EMME region:** Prof. Jos Lelieveld from MPIC was one of the contributors of the ‘Climate Crisis in the Eastern Mediterranean and the Middle East’ conference, held from September 26-28, 2024, at Radisson Beach, in Larnaca, Cyprus. Prof Lelieveld was one of the keynote speakers, who participated in the panel session titled ‘*The Evolving Climate Crisis: The Scientific Basis*’ and was a co-organiser of the pre-conference workshop on 24-25

September 2024, titled 'Climate and Health in the Urban Environment'.



Figure 5.1.4: Prof. Jos Lelieveld presentation at the International Conference on Climate Crisis in the EMME region, 26 September 2025

MPIC supported dissemination of EMME-CARE results with various contributions through press releases and Social Media posts across Facebook, X (until January 2025), Bluesky (from January 2025) and LinkedIn with target groups including media, academic community, MPIC alumni and graduate community, others. In terms of social media channels, these included the below MPIC channels:

- Facebook <https://www.facebook.com/MPIC.Mainz> (1324 followers)
- LinkedIn: <https://www.linkedin.com/company/max-planck-institut-fuer-chemie/mycompany> (2000 followers)
- X: <https://x.com/maxplanckchem?lang=en> (888 followers- no longer active since January 2025)
- BlueSky: <https://bsky.app/profile/mpic.de> (359 followers)

Indicative screenshots of the activities are included below:

### Press releases

- [Future threat from temperature extremes and air pollution](#)

Startseite > Aktuelles > Presse > Pressemitteilungen > Zukünftige Gefahr durch Temperaturextreme und Luftverschmutzung

Veranstaltungen
Pressemeldungen
MPIC Newsletter
Bildergalerie
Videos
Jahrbücher

## Zukünftige Gefahr durch Temperaturextreme und Luftverschmutzung

Jährlich 30 Millionen Todesfälle durch abnorme Temperaturen und Luftverschmutzung bis zur Jahrhundertwende prognostiziert. Für etwa 20 Prozent der Weltbevölkerung stellen Extremtemperaturen ein größeres Risiko dar als die Luftverschmutzung.

20. NOVEMBER 2024

Die jährliche Sterblichkeitsrate durch Luftverschmutzung und extreme Temperaturen könnte bis Ende des 21. Jahrhunderts auf 30 Millionen ansteigen. Zu diesem Ergebnis kommt eine internationale Studie unter Leitung des Max-Planck-Instituts für Chemie. Die auf numerischen Simulationen basierenden Forschungsergebnisse zeichnen ein besorgniserregendes Bild: Todesfälle durch Luftverschmutzung könnten sich vervielfachen, während die temperaturbedingte Sterblichkeit siebenmal höher ausfallen könnte. Damit würden extreme Temperaturen für mindestens 20 Prozent der Weltbevölkerung ein größeres Gesundheitsrisiko darstellen als Luftverschmutzung.

Die Studie zeigt erhebliche regionale Unterschiede bei den zukünftigen Sterberaten. Die höchsten werden in Süd- und Ostasien aufgrund der alternden Bevölkerung erwartet, wobei die Luftverschmutzung als Todesursache weiterhin eine große Rolle spielt. In einkommensstarken Regionen wie Westeuropa, Nordamerika und im westlichsteuropäischen Raum zeichnet sich hingegen ein anderer Trend ab: Hier werden



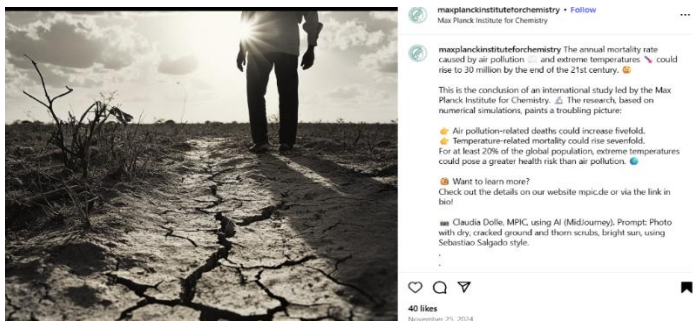
Foto zur Veranschaulichung extremer Temperaturen. Verwendung von KI (Midjourney). Prompt: Photo with dry, cracked... [mehr]  
© Claudia Dolle, MPI für Chemie

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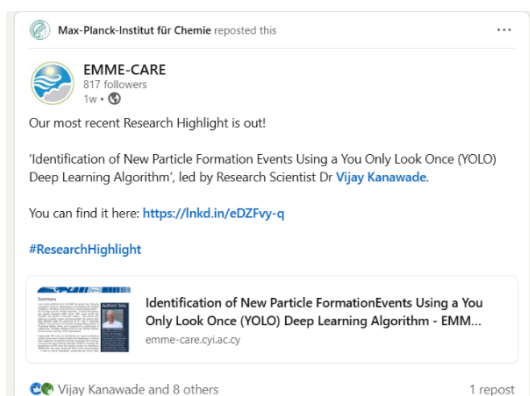
**Originalpublikation**  
Andrea Pozzer, Brendan Steffens, Yiannis Proetos, Jean Sciare, Dimitris Akritidis, Sourangsu Chowdhury, Katrin Burkart and Sara Bacer  
Atmospheric health burden across the century and the substitution impact of

## Social media dissemination: LinkedIn, Instagram (September 2024-August 2025)

### Instagram



### LinkedIn



## 6. Key Performance Indicators

In order to measure the effectiveness and impact of the CoE's planned communication, dissemination and exploitation activities, Key Performance Indicators (KPIs) are set, monitored and reviewed.

To avoid confusion between reporting periods (EMME-CARE annual evaluations vs the reporting period of this deliverable), figures are reported on a calendar year basis.

Dimension	Key Performance Indicator	2020	2021	2022	2023	2024	Objective 2026
Effectiveness	Scientific publications (per year)	74	97	96	97	117	150
	% scientific publications in TOP-25% impact factor journals of the field (per year)	56% [41]	65% [64]	67% [64]	63.9% [62]	59.0% [69]	>75%
	% scientific publications in TOP-10 journals of the field (per year)	38% [28]	41% [40]	51% [49]	28.9% [28]	35.9% [42]	>60%
	% scientific publications in TOP-5% impact factor journals of the field (per year)	12% [9]	12% [12]	19% [18]	10.3% [10]	15.3% [18]	[8]
	Plenary/ Invited talks at international conferences	1	7	4	13	21	15
	International conference presentations and workshops	30	41	98	74	89	100
Outcome	Number of CoE public events (per year)	5	8	8	9	8	15
	Estimated number of CoE press coverage (per year)	111	300	338	238	228	325

<b>Efficiency</b>	Number of following in CoE digital platforms (at end of year)	1238	1586	1792	2029	2250	<b>2500</b>
	Estimated number of persons reached through events – including digital (per year)	2940	3040	3868	15830*	4053	<b>4000</b>
<b>Network</b>	Number of joint publications with regional partners	16	22	37	32	37	<b>&gt;40</b>
	Number of joint publications with Advanced partners	40	61	56	62	66	<b>&gt;50</b>
	Impact factor of joint publications with Advanced Partners	6.53	6.98	14.5	11.2	6.8	<b>&gt;4</b>

\*Includes the number of attendees reported on the news for European Researchers Night and Reflect Festival

