



Scientific Strategy

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Short Description (3-5 lines)	
The aim of this report is to contribute to a scientific collaborative framework for the six research and innovation projects, emphasizing their capacity to scientifically collaborate in an effective manner for greater impact.	
Keywords:	Scientific activities, Communication, Dissemination, Guidelines, Publications

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Based on the 6 projects' Grant Agreement, this Scientific Strategy corresponds to the deliverable numbers listed below.

Project name	Deliverable number
BlueAdapt	D9.15
CATALYSE	D6.6
CLIMOS	D6.10
HIGH Horizons	D1.14
IDAlert	D1.8
TRIGGER	D9.18

How to quote this document

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List of Acronyms and Abbreviations

Abbreviation	Description
BlueAdapt	Reducing Climate Based Health Risks in Blue Environments: Adapting to the climate change impacts on coastal pathogens
CATALYSE	Climate Action To Advance Healthy Societies in Europe
CLIMOS	Climate Monitoring and Decision Support Framework for Sand Fly-borne Diseases Detection and Mitigation
DEC	Dissemination, Exploitation and Communication
EC	European Commission
EWS	Early warning system
HIGH Horizons	HIGH (Heat Indicators for Global Health) Horizons
HRB	Horizon Results Booster
IDAlert	Infectious disease decision-support tools and alert systems
TRIGGER	SoluTions foR mItiGatinG climate-induced hEalth thReats
WGs	Working Groups

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Executive summary

The six projects funded under the Horizon Europe topic HORIZON-HLTH-2021-ENVHLTH-02-03 “Health impacts of climate change, costs and benefits of action and inaction” have formed the Climate-Health Cluster.

The six projects are [BlueAdapt](#), [CATALYSE](#), [CLIMOS](#), [HIGH Horizons](#), [IDAlert](#), and [TRIGGER](#).

The Climate-Health Cluster was set up by the European Commission to allow the six projects to:

- Harmonise approaches
- Promote synergies
- Avoid overlaps
- Strengthen the Science for Policy link
- Streamline information flows
- Improve communication and dissemination
- Increase their impact.

The following sections provide an overview of the Climate-Health Cluster Scientific Strategy.

The aim of this report is to contribute to a collaborative scientific framework for the Climate-Health Cluster, emphasizing the six projects’ capacity to scientifically collaborate in an effective manner for greater impact.

1 Introduction

1.1 Purpose and Scope

The six projects funded under the Horizon Europe topic HORIZON-HLTH-2021-ENVHLTH-02-03 “Health impacts of climate change, costs and benefits of action and inaction” have formed the Climate-Health Cluster. The six projects are [BlueAdapt](#), [CATALYSE](#), [CLIMOS](#), [HIGH Horizons](#), [IDAlert](#), and [TRIGGER](#).

BlueAdapt studies the impact of climate change on health risks due to pathogens in the environment, specifically in our coastal waters. It will develop a conceptual framework to help better understand these interactions, which will be based on an extended One Health approach, linking human and environmental health and including a health equity lens.

CATALYSE project is an interdisciplinary association that studies the public health effects of climate change and aims to create a unified way to monitor health issues and benefits, as well as any non-health related social and environmental costs and benefits.

CLIMOS aims to help mitigate climate – and climate change-induced emergence, transmission and spread of vector-borne and zoonotic pathogens based on EcoHealth and One Health approaches particularly those which relate to sand fly vector populations and sand fly-borne disease.

HIGH Horizons focuses on global heat-health indicators, a personalised Early Warning System and integrated health facility mitigation and adaptation interventions to alleviate the impact of heat exposure on pregnant and postpartum women, infants and young children as well as on health workers.

IDAlert’s approach expands the IPCC’s framework of hazard, exposure, vulnerability and risk by including the One Health triangle of animals, humans and the environment, allowing to contribute significantly to research at the intersection of One Health, EcoHealth, infectious diseases, and climate change.

TRIGGER will deepen current understanding of the links between climate, health and ecosystems (exposome framework) and utilise this knowledge to advance society uptake at personal and policy level.

The Climate-Health Cluster was set up by the European Commission to allow the six projects to:

- Harmonise approaches
- Promote synergies
- Avoid overlaps
- Strengthen the Science4Policy link
- Streamline information flows
- Improve communication and dissemination
- Increase their impact.

This Scientific strategy aims to contribute to a collaborative framework for the Climate-Health Cluster, emphasizing the six projects’ capacity to scientifically collaborate in an effective manner for greater impact.

1.2 Audience

This document is drafted for all member organisations of the Climate-Health Cluster.

This document is also intended to inform the European Commission who is overseeing the Cluster and its progress.

1.3 Revisions and Updates

The Scientific Strategy of the Climate-Health Cluster should be considered a living document. As such, it will be reviewed regularly by the Climate-Health Cluster Coordinator and updated as needed, at a minimum annually (with the annual review every September).

2 The Climate-Health Cluster

2.1 Cluster framework

The Climate-Health Cluster is coordinated by the six project coordinators and their deputies ('Cluster Coordinating Team').

Every 9 months, the Cluster will have a different coordinator, as showed below:

- Period 1: October 2022 – June 2023 » led by IDAlert
- Period 2: July 2023 – March 2024 » led by CLIMOS
- Period 3: April 2024 – December 2024 » led by BlueAdapt
- Period 4: January 2025 – September 2025 » led by HIGH Horizons
- Period 5: October 2025 – June 2026 » led by CATALYSE
- Period 6: July 2026 - March 2027 » led by TRIGGER

The European Commission, via the Directorate General for Research and Innovation (DG RTD), supervises the implementation of the Climate-Health Cluster.

The Climate-Health Cluster is structured into Working Groups (WGs) on topics of shared interest and research between the projects. As a result, the following five WGs have been implemented:

- WG1: Science translation to policy and practice, led by HIGH Horizons and IDAlert
- WG2: Data analysis, management, protection, and standardisation, led by TRIGGER, CLIMOS and CATALYSE
- WG3: Communication and Dissemination, led by BlueAdapt and IDAlert
- WG4: Early Warning Systems & Models, led by CATALYSE, TRIGGER and CLIMOS
- WG5: Indicator Development, led by HIGH Horizons and IDAlert

The role of each WG is summarized in Figure 1 and detailed information on each WG aims is presented in Annex 1 to 5.

Detailed information on Working Group 1 role and procedures can be found in the Science for Policy (S4P) Strategy report (Climate-Health Cluster 2023) and also in Annex 1. Detailed information on Working Group 3 role and procedures can be found in the Common cluster communication and dissemination strategy report (Climate-Health Cluster 2023c) and also in Annex 3.

In case of need, more WG can be implemented.



Figure 1: Working Groups at the Climate-Health Cluster
 Source: Climate-Health Cluster (2023a)

All Cluster deliverables, once approved by the EU, and important documents will be made available at the Climate-Health Cluster website: <https://climate-health.eu/>, under the tab "Cluster Deliverables" at the Home Menu. However, the Shared Cluster Data Management Plan will not be made public as this deliverable is classified as sensitive, which are limited under the conditions of the respective project Grant Agreements. The Cluster deliverables will be uploaded to the ZENODO repository (Climate-Health Cluster 2023b).

3 Scientific Strategy

3.1 Objective

The main objective of the Scientific Strategy is to contribute with a collaborative framework for the Climate-Health Cluster emphasizing the six projects' capacity to scientifically collaborate in an effective manner for greater impact.

3.2 Target Audience

According to the Cluster's Dissemination, Exploitation and Communication (DEC) document, the Climate-Health Cluster targets the following five stakeholder groups:

- Researchers and academia
- Climate, environment professionals
- Policy Makers, Policy Experts, Funding Agencies
- Civil Society, Non-Government Organizations (NGOs), Citizens
- Healthcare Providers, Patient Organisations, Healthcare Industry

More concretely, a list of preliminary key stakeholders, identified by the Horizon Results Booster service delivery team¹, based on the target stakeholders list provided by each of the six projects. A new version of the list can be seen in Annex 6. It includes encompasses stakeholders identified in the Horizon Booster report, complemented by other stakeholders identified by CLIMOS, CATALYSE and HIGH Horizons projects.

An updated stakeholder list deliverable is envisioned for mid-2024, including also the benefits of the Climate-Health Cluster outputs for each stakeholder type and which communication and dissemination activities are targeted to each of them (Climate-Health Cluster 2023c).

3.3 Scientific activities

3.3.1 Joint Policy Briefs

Policy briefs are a key tool to present research and recommendations to a non-specialized audience. They serve as a vehicle for providing evidence-based policy advice to help readers make informed decisions.

In the Climate-Health Cluster, policy briefs will be used as a means to create a common policy perspective among the six projects. The policy briefs will be focused on science for policy communication/translation and will report on how the results of the cluster could contribute to policy strategies and initiatives.

According to the Science for Policy Strategy report, developed by WG1 – Science translation to policy and practice, three joint policy briefs will be developed by the Climate-Health Cluster. The briefs aim to feed into the decision-making process and outcomes at the EU level and (inter)national levels with evidence-based knowledge and inputs collected by the project partners. For more detail information on the policy briefs, please consult the Science for Policy (S4P) strategy of the Cluster (Climate-Health Cluster 2023).

The policy brief will be disseminated among the stakeholders identified in the Cluster Stakeholder List as presented in Annex 6.

¹ CATALYSE, a Cluster project, applied for Horizon Results Booster services, specifically for Service 1 "Portfolio Dissemination and Exploitation Strategy (PDES)" - MODULE A: Identification and creation of the portfolio of R&I project result. The final report dates from 30 March 2023.

3.3.2 Thematic Workshops & Trainings

The Climate-Health Cluster will organise a total of four thematic workshops (WSs), which will be organized on the following dates:

- 1st Workshop - February 2024
- 2nd Workshop - September 2024
- 3rd Workshop - September 2025
- 4th Workshop - September 2026

While initially these workshops will focus on scientific content and training for internal Climate-Health Cluster members, as major results become available in later project years, public facing webinars will also be planned.

The first thematic workshop was held in Brussels, on the 21st February 2023 on the occasion of the Directorate General for Research and Innovation of the European Commission (DG RTD) conference on “Research perspectives on the health impacts of climate change”². It was a hybrid event. Organized by WG4 – Early Warning Systems, the agenda of the event can be seen in Annex 7.

The following three WSs are planned to be hosted virtually (online). Tentative dates and contents are:

- 2nd WS- M24: Effective Communication with Policymakers, End Users and Other Stakeholders (e.g., how to create a Policy brief). Organized jointly by WG1 and WG3
- 3rd WS - M36: Attributing health burdens to climate change. Organized by WG2.
- 4th WS - M48: Indicators. Organized by WG5

Note that the above mentioned three Workshops are still subject to internal discussion.

3.3.3 Event participation

All projects will regularly propose European and international events of interest in which the Climate-Health Cluster could be represented and promoted. A shared internal document is developed for this purpose.

In addition, for further communication and dissemination of the Climate-Health Cluster’s activities and results related to science for policy, WG1 and WG3 are planning to contribute to major EU and international policy events.

For instance, the Cluster was present at the ENBEL Conference³ on 12 October 2023, in Stockholm, Sweden and more recently, at the “Research Perspectives on the Health Impacts of Climate Change” Conference in Brussels⁴, on 19 and 20 February 2024 (Figure 2).

² In the media: <https://climate-health.eu/2024/04/03/advancing-collaboration-insights-from-the-inaugural-climate-and-health-cluster-workshop-on-numerical-tools-and-early-warning-systems/> (accessed September 2024); <https://climos-project.eu/climate-health-cluster-at-the-research-perspectives-on-the-health-impacts-of-climate-change-conference/> (accessed September 2024)

³ In the media: <https://climate-health.eu/2023/10/02/climate-health-cluster-at-enbel-conference-health-impacts-of-climate-change-a-way-forward/> (accessed September 2024)

⁴ In the media: <https://climate-health.eu/2024/02/23/climate-health-cluster-at-the-research-perspectives-on-the-health-impacts-of-climate-change-conference/> (accessed September 2024)



Figure 2: European Climate Health Cluster members at the DG RTD Conference
Source: Climate-Health Cluster

Other possibilities for participation are the COP29 Climate Summit (European and/or Health Pavilion) in November of 2024, the 2nd Annual CAFÉ Climate & Health Conference, in March 2025, among others.

3.3.3.1 Final cluster event

A final event will be organised towards the end of the Cluster's lifetime in 2026-2027 to convey key results and messages to stakeholders such as national, EU and international policy makers and regulatory communities, NGOs, industry, and the scientific community. This event will be organised by the Cluster coordination team in close collaboration with DG RTD.

It is expected that the different WGs will contribute to the organization of this event. For instance, Working Group 1 will ensure that at least one session will be specifically targeted at 'Science for Policy' translation and thus at policy makers, policy expert and funding agencies and WG3 will assure the proper DEC process.

3.3.4 Other scientific activities

Other scientific activities are being planned as joint endeavours between the projects namely:

- The publication of a manuscript focusing on the evolution and typologies of EWSs. The manuscript is already being organized by WG3, with contribution from other WGs members.
- The organization of Citizen Science and other engagement activities with stakeholders, the development of infographics, flyers, posters, etc, are just some examples that can be developed by the Climate-Health cluster.

Joint scientific activities are also considered to be the participation of projects to each other activities, for instance:

- ID Alert was invited to participate in CLIMOS' Foresight Stakeholder Workshop "Envisioning the future for an Early Warning System for Sand Fly-borne Diseases in Europe" that took place in Berlin, Germany, on the 28th and 29th May 2024. ID Alert was represented by two members at the workshop.

3.4 Scientific collaboration and guidelines for Publication

All six projects across the Cluster have committed in the Cluster Data Management Plan, to ensure that the data produced/collected satisfies the criteria of making research data findable, accessible, interoperable, and re-usable (FAIR), and ensure access to the data ‘as open as possible, as closed as needed’ beyond Cluster duration (Climate-Health Cluster 2023d).

To monitor all scientific activities, a Scientific Steering Committee will be established and will be composed by one representative from the six project partners. The following members are nominated:

BlueAdapt – Kevin Portune
 CATALYSE – Josep M. Antó.
 CLIMOS – Carla Maia
 HIGH Horizons - Debra Jackson
 IDAlert – Raman Preet
 TRIGGER – Silvana Di Sabatino

The Scientific Steering Committee will assure that the scientific work of the Cluster is of highest quality, will review the deliverables and joint scientific activities such as publications or presentations in conferences and support the Cluster coordinator to monitor performance of WGs.

To assure that individuals and institutions are acknowledged accordingly to their contribution to Climate-Health Cluster activities, guidelines for publications were set - see Annex 8 - to ensure a smooth scientific process.

3.5 Work plan for the Scientific Strategy

The Climate-Health Cluster started in October 2022 and will end in March 2027.

The already defined work plan as part of the Scientific Strategy of the Climate-Health Cluster is summarized in Table 1.

Table 1: Climate-Health Cluster Scientific Workplan

Activity	Year 1 (Oct 22 –Sept 23)	Year 2 (Oct 23 –Sept 24)	Year 3 (Oct 24 –Sept 25)	Year 4 (Oct 25 –Sept 26)	Year 5 (Oct 26 –Mar 27)
Policy Briefs		March 2024	September 2025		March 2027
Thematic Workshops & Trainings		February 2024 and September 2024	September 2025	September 2026	
Annual Cluster Meeting			TBD 2025	September 2026	
Final Cluster event					Date to be decided

As the projects have different durations, the annual cluster meetings are a good opportunity to engage and have a strong scientific exchange between projects.

Since the Scientific strategy is not fixed in time and is updated as needed, other activities will be scheduled continuously.

3.6 Evaluation

The Coordinating Team of the Climate-Health Cluster will be responsible for monitoring the implementation of the Scientific Strategy of the Cluster.

The coordinator will make sure that activities and deliverables are organized and submitted in due time.

The cluster leadership will be rotated as follows every 9 months:

- 1st period (Oct 2022 - Jun 2023) IDAlert
- 2nd period (Jul 2023 – Mar 2024) CLIMOS
- 3rd period (Apr 2024 – Dez 2024) BlueAdapt
- 4th period (Jan 2025 – Sep 2025) HIGH Horizons
- 5th period (Oct 2025 – Jun 2026) CATALYSE
- 6th period (Jul 2026 – Mar 2027) TRIGGER

The cluster coordinator will have the support of the Scientific Steering Committee in these activities.

References

- Climate-Health Cluster (2023), Science for Policy (S4P) strategy (Climate-Health Cluster)
- Climate-Health Cluster (2023a), Cluster Brochure Deliverable (Climate-Health Cluster)
- Climate-Health Cluster (2023b), Cluster web portal and visual identity (Climate-Health Cluster)
- Climate-Health Cluster (2023c), Common cluster communication and dissemination strategy (Climate-Health Cluster)
- Climate-Health Cluster (2023d), Cluster Data Management Plan (Climate-Health Cluster)
- Ferguson, N. Colucci, L. (2022), Portfolio of Research and Innovation Results (Horizon Results Booster)

Annexes

Annex 1: Working Group 1 role and procedures

WG1 is responsible for ensuring that the scientific findings of the Cluster are translated into policies and is therefore involved in the development, implementation and evaluation of the Cluster's science for policy strategy:

- 1) Policy Development: Tasked with shaping the Science 4 Policy strategy, and may revise existing strategies based on cross-cluster learnings. This involves comprehensive research, stakeholder consultation, and a thorough policy strategy.
- 2) Policy Implementation: Upon approval of cluster policy briefs or any related cluster engagement, advocacy or education documents. WG1 will spearhead the S4P strategy's implementation, contributing to the policy briefs and supporting action plans through diligent oversight, timeline management, and resource allocation. Activities may include:
 - a. Stakeholder Engagement: As a central point of contact, WG1 will contribute to the stakeholder list, especially with respect to policy makers and experts and will advise on stakeholder engagement activities.
 - b. Advocacy: WG1 will champion policy advocacy internally and externally, promoting policy benefits, addressing concerns, and gathering support.
 - c. Education: WG1 supports partners on the role of educating stakeholders about policy implications and their role in successful implementation.
- 3) Policy Evaluation: WG1 roles may extend to monitoring and evaluating S4P's strategy's effectiveness, identifying any gaps in policy goals, and recommending necessary changes.

The main tasks of each member in WG1 include:

- Participation in Meetings: Each member is expected to actively participate in WG1 meetings. This would involve preparing for meetings, revising protocols, contributing to discussions, and following up on action items.
- Policy Development and Implementation: Members should assist their project in the development and implementation of the S4P strategy. They might be tasked with conducting research, consulting with stakeholders, preparing policy proposals, or managing the implementation of approved policies.
- Project Assistance: Each member should guide their respective projects to utilise the S4P strategy effectively for advocacy and policy action. This would involve providing advice, resources, and support as necessary.
- Policy Evaluation: Members might be involved in monitoring and evaluating the effectiveness of the S4P strategy. This could involve collecting data, conducting assessments, and preparing evaluation reports.
- Stakeholder Engagement: Each member should play a role in engaging with stakeholders. They might contribute to stakeholder lists, communicate with policymakers and experts, or represent WG1 at stakeholder meetings or events.
- Policy Advocacy: Members should also contribute to policy advocacy efforts. This might involve preparing advocacy materials, speaking at advocacy events, or engaging with media or public officials.
- Education: Members might be tasked with educating stakeholders about the S4P strategy and its implications. This could involve preparing and delivering presentations, conducting workshops, or developing educational materials.

- Staying Informed: Finally, each member would need to stay abreast of relevant legislative or regulatory changes. This could involve monitoring news or policy updates, attending relevant briefings or seminars, and informing the rest of WG1 about any important changes.

Annex 2: Working Group 2 role and procedures

WG2 is responsible for:

1. Developing a common data management plan (Deliverable No 4 – 30.09.2023)
2. Supporting WG4 with co-designing and co-facilitating the 1stthematic workshop (31.03.2024)
3. Supporting other WGs as required, in relation to data management and data sharing.
4. Responding to requirements and feedback from cluster members and EC project officers on evolving goals and objectives.

The main tasks of each member in WG2 include:

- Active contribution and timely communication: Each member is expected to respond to WG2 correspondence in a timely manner, while taking shared ownership of the goals and associated tasks.
- Participation in Meetings: Each member is expected to actively participate in WG2 meetings. This involves agenda setting, preparing for meetings, contributing to discussions, note taking and circulating minutes, and following up on action items.
- Participation in deliverable writing: Lead or contribute to deliverable writing and/or review, as per agreed role and responsibilities.
- Responding to discussion points raised at the thematic workshops, as they relate to data management:
 - Thematic workshop 1
 - Identify barriers to data sharing within data spaces.
 - Identify challenges in sharing data across geographic and political boundaries.
 - Identify specific types of data where there is a reluctance to share.
 - Highlight data sharing models that have worked well.
 - Highlight opportunities for data harmonisation and homogenisation across the cluster.
- Information sharing: Keep the cluster up to date on data captured within each member's project and identify opportunities for data sharing. Contribute project-specific information, in a safe and responsible manner, ensuring project is well represented in shared tasks and WG objectives.

Annex 3: Working Group 3 role and procedure

WG3 is responsible for:

- Designing the cluster's visual identity (June 2023)
- Developing a common communication and dissemination strategy (June 2023)
- Developing and maintaining the cluster's website, ensuring it is updated regularly (June 2023)
- Producing communication materials and tools, such as templates, cluster presentation, rollup/poster
- Producing the cluster's brochure (September 2023)
- Supporting the production of the joint policy briefs, in collaboration with WG1 (March 2024, September 2025, March 2027)
- Supporting the organisation of the technical workshops and trainings (March 2024, October 2025, September 2026, and September 2027)
- Monitoring, coordinating, and supporting cluster members' participation in events
- Draft and distribute the electronic newsletters through each member's distribution channels (March 2024, September 2025, March 2027)
- Promote the cluster via each project's social media channels
- Plan and implement communication activities such as coordinated digital campaigns

The main tasks of each member in WG3 include:

- Participating in WG3 monthly meetings
- Sharing information on each member's communication and dissemination activities to identify synergies with the cluster
- Suggest articles for the cluster website
- Suggest content for the cluster website and each cluster project's social media channels (infographics, visuals etc)

Annex 4: Working Group 4 role and procedures

Working Group 4 is focused on forming a unified perspective on how early warning systems enhance awareness and understanding, as well as support mitigation and adaptation efforts. The WG4 is responsible for:

- Improve understanding of the early warning system concept.
- Planning workshops, dedicated to sharing current achievements and ideas from across the cluster.
- Sharing the types of data being used, the methods for creating forecasts, and the dissemination processes to project partners within the working group.
- Sharing the modelling techniques that are being developed in each project.
- Development of a joint scientific paper on the main concepts and possible use cases of EWS.

The main tasks of each member in WG4 include:

- Participating in WG4 meetings, being proactive, and proposing ideas on the various topics to be discussed.
- Participating in WG4 cluster activities, being proactive, and proposing ideas on the various topics to be discussed.
- Developing and implementing strategies to improve early warning systems.
- Conducting research to identify best practices and innovative solutions.
- Monitoring and evaluating the effectiveness of early warning systems.
- Advising on policy development to integrate early warning systems into broader risk management frameworks.

Annex 5: Working Group 5 role and procedures

Indicator development

Working Group 5 is responsible for the coordination of indicator development across the different projects. WG5 brings together the different researchers involved in indicator development to determine the different aspects of the indicator in order to identify synergies and potential overlaps. While the respective projects collect data on climate-sensitive health indicators, the focus of each project is different and covers a wide range of indicators. Therefore, it is useful to go through a checklist of questions regarding these indicators with the teams involved in the development and vetting of these indicators. The assessment of these indicators is based on the following appraisal:

- What outcome does the indicator track?
- At what spatial and temporal scale is the indicator and what are the units?
- What health endpoint is the indicator supposed to track?
- How does this indicator fit within the scope of the project and potentially other projects?
- Is it a novel indicator or based on an existing indicator?
- What is the relevance of this indicator for European (health) policy?
- What are the datasets that will be used in the development of this indicator?
- What are the underlying methodological processes used to generate the indicator?
- Which European Countries will be included in this indicator?
- Will (or can) the reporting of this indicator includes a stratification of results by European country groupings (i.e., Eastern, Northern, Southern, Western Europe)?
- What is the finest geographical resolution at which this indicator can be developed (e.g., gridded and/or administrative data: NUTS3/NUTS2/NUTS1 level, country, sub-regional, regional)?
- What is the temporal coverage of the indicator?
- How frequently can this indicator be updated?
- Can the results of this indicator be stratified across (vulnerable) population subgroups?
- Other than stratification, are there ways in which the indicator is able to account for between-country and within-country inequalities (i.e., vulnerable populations)?
- What are the limitations of the indicator in its current form?
- How could these limitations be addressed in future iterations of the indicator?
- What are the strengths of the indicator in its current form?

Annex 6: Climate-Health Cluster list of stakeholders

Following the Horizon Results Booster project group, that identified a dissemination network with approximately 52 contacts and related social media channels identified across the stakeholder groups, the stakeholder list for the cluster has been enriched by contributions from the cluster's projects. This serves as an important basis for future dissemination activities.

This list is a living document, continually updated to reflect the most current information. Please find attached the latest version (June 2024) of this list.

Stakeholder name	Stakeholder type	Website
Academic Network for Sexual and Reproductive Health and Rights Policy (ANSER)	Health platform	https://www.ugent.be/anser/en
Backyard Brains Germany	Researchers and academia	https://backyardbrains.com/
Diagnostic Veterinary Laboratory	Animal health organisation	
Africa Advocacy Foundation	NGO	https://www.africadvocacy.org/contact
African Population and Health Research Center (APHRC)	Researchers and academia	https://aphrc.org/
AGES	Public health organisation	https://www.ages.at/en/
Association of Schools of Public Health in the European Region (ASPHER)	Public health organisation	https://www.aspher.org/
BeBrit project	Researchers and academia	https://www.bebritproject.com/
Belgian Climate Centre	Climate, environment professionals	https://www.climatecentre.be/
Belgian Minister of Climate, the Environment, Sustainable Development and Green Deal	Policy makers/experts	https://khattabi.belgium.be/en
Bill & Melinda Gates Foundation	Funding agency	https://www.gatesfoundation.org/about/contact
Centre for Planetary Health Policy	Policy makers/experts	https://cphp-berlin.de/en/
Centre for Public Governance, ESADE	Policy makers/experts	https://www.esade.edu/faculty-research/en/esadegov
Centre for Vectors and Infectious Diseases Research/National Institute of Health	Public health organisation	https://www.insa.min-saude.pt/
Charité Medical University	Healthcare provider	https://www.charite.de/en/
CINEA networks	Policy Makers/Experts	https://cinea.ec.europa.eu/contact-0_en
CityLAB Berlin	Researchers and academia	https://citylab-berlin.org/en/start/
Climate and Health Africa Conference (CHAC)	Policy makers/experts	www.climatehealthconf.africa
Climate Change AI	Researchers and academia	https://www.climatechange.ai/
Climate System Analysis Group (UCT CSAG) at University of Cape Town	Researchers and academia	csag.uct.ac.za
Climate-Health Africa Network for Collaboration and Engagement (CHANCE)	#	https://www.enbel-project.eu/chance
CRDF Global	Policy makers/experts	https://www.crdfglobal.org/become-a-partner/
Deutsche Allianz Klimawandel – Gesundheit (KLUG)	Health platform	https://www.klimawandel-gesundheit.de/
European Centre for Disease Prevention and Control (ECDC)	Policy Makers/Experts	https://www.ecdc.europa.eu/en
European Centre for Medium-Range Weather Forecasts	Policy makers/experts	https://www.ecmwf.int/
European Climate and Health Observatory	Policy Makers/Experts	https://climate-adapt.eea.europa.eu/en/observatory
European Commission - DG Clima	Policy Makers/Experts	https://commission.europa.eu/about-european-commission/departments-and-executive-agencies/climate-action_en
European Commission - DG Santé	Policy Makers/Experts	https://commission.europa.eu/about-european-commission/departments-and-executive-agencies/health-and-food-safety_en
European Federation of Asthma and Allergy Patients Associations	Health platform	https://www.efanet.org/

European Federation of Pharmaceutical Industries and Associations	Health platform	https://www.efpia.eu/
European Food Safety Authority	Public health organisation	https://www.efsa.europa.eu/en
European Health Forum Gastein	Health platform	https://www.ehfg.org/
European Medicines Agency	Health platform	https://www.ema.europa.eu/en
European Organisation for Rare Diseases	Health platform	https://www.eurordis.org/
European Parliament - Members of the ENVI Committee	Policy makers/experts	Members Home ENVI Committees European Parliament (europa.eu)
European Parliament - Members of the SANT Committee	Policy makers/experts	https://www.europarl.europa.eu/committees/en/sant/home/members
European Patients Academy	Patient organisation	https://www.eu-patient.eu/Projects/eupati2/
European Patients Forum	Patient organisation	https://www.eu-patient.eu/
European Public Health Alliance (EPHA)	Public health organisation	https://epha.org/about-us/
European Veterinary Parasitology College	Animal health organisation	https://ebvs.eu/colleges/EVPC
European Veterinary Association	Animal health organisation	https://www.eaave.org/
Faculty of Veterinary Medicine Ss. Cyril and Methodius University in Skopje	Researchers and academia	https://fvm.ukim.edu.mk/en/
FAO	Policy Makers/Experts	https://www.fao.org/home/en
FIOCRUIZ	Climate, environment professionals	https://portal.fiocruz.br/
FS Consultancy	Citizens	https://www.fsconsultancy.com.sg/
Global Heat Health Information Network (GHHIN)	Policy makers/experts	https://ghhin.org/
Greener NHS, UK	Healthcare provider	https://www.england.nhs.uk/greenernhs/
Health and Environment Alliance (HEAL)	NGO	https://www.env-health.org/
Health Care Without Harm Europe	NGO	https://noharm-europe.org/
Health in All Policies, part of the CDC, USA	Healthcare provider	https://www.cdc.gov/policy/hiap/resources/
IDEXX Laboratories	Healthcare industry	https://www.idexx.com/en/
Institute of Public Health Albania	Public health organisation	https://www.ishp.gov.al/
Institute of Tropical Medicine Antwerp	Researchers and academia	https://www.itg.be/en
Institute of Veterinary Medicine Belgrade	Animal health organisation	https://www.vet.bg.ac.rs/en
Instituto de Salud Carlos III	Public health organisation	https://www.isciii.es/Paginas/Inicio.aspx
Intergovernmental Panel on Climate Change (IPCC)	Policy Makers/Experts	https://www.ipcc.ch/
International Alliance of Patients Organisations	Patient organisation	https://www.iapo.org.uk/global-voice-patient-centred-healthcare
IRD (Institut de Recherche pour le Développement)	Public health organisation	https://www.ird.fr/
Istituto Zooprofilattico Sperimentale Lazio e Toscana	Researchers and academia	https://www.izslt.it/
IZSLER	Researchers and academia	https://www.izsler.it/
Joint Authority for Health and Wellbeing in Päijät-Häme, Finland	Healthcare provider	https://medanets.com/references/medanets-welfare-district-of-paijat-hame/
Lancet Countdown Europe	#	https://www.lancetcountdown.org/europe/
Lebanese University-Faculty of Public Health	Researchers and academia	https://www.ul.edu.lb/faculte/branch.aspx?branchid=46
Leipzig University	Animal health organisation	https://www.uni-leipzig.de/en
Liverpool School of Tropical Medicine (LSTM)	Researchers and academia	LSTM Liverpool School of Tropical Medicine (lstmed.ac.uk)
LSHTM Centre for Maternal, Adolescent, Reproductive, & Child Health (MARCH)	Researchers and academia	https://www.lshtm.ac.uk/research/centres/march-centre
LSHTM Climate and Maternal and Child Health (CLIMACH) Interest Group	Researchers and academia	https://www.lshtm.ac.uk/research/centres/march-centre/climate-and-maternal-and-child-health-climach-interest-group
Medecins Sans Frontiers (MSF)	NGO	https://www.msf.org/
National Centre of Infectious and Parasitic Diseases	Public health organisation	https://www.ecdc.europa.eu/en
OECD	Policy Makers/Experts	https://www.oecd.org/climate-change/
Partners for Patients	Patient organisation	https://www.pfp.ngo/
Polish Coalition of Doctors and Scientists for Clean Air	Health platform	https://lekarzedlaklimatu.pl/

Polish Society of Health Programmes	Health platform	http://www.ptpz.pl/en/main-page/
Portugese Association of Veterinary Specialists in Companion Animals	Animal health organisation	https://wsava.org/associations/apmveac/
Red Cross	NGO	https://www.icrc.org/en
Science for Africa	Researchers and academia	Home Science for Africa Foundation
Southern Europe SEASLAB	Researchers and academia	https://seaslab.es/
Special Rapporteur on human rights and the environment	Policy makers/experts	
Standing Committee of European Doctors (CPME)	Public health organisation	https://www.cpme.eu/
Swedish Vetinary Institute	Animal health organisation	https://www.sva.se/en/
The Cyprus Institute	Researchers and academia	https://www.cyi.ac.cy/
The HEat and HEalth African Transdisciplinary Center (HE2AT Center)	Researchers and academia	https://heatcenter.wrhi.ac.za/
The University of Agriculture Peshawar	Citizens	https://www.aup.edu.pk/
UN Special Rapporteur on the right to health	Policy makers/experts	https://www.ohchr.org/en/special-procedures/sr-health
Universidad Autónoma de Madrid	Researchers and academia	https://www.uam.es/uam/en/inicio
University of Agricultural Sciences and Veterinary Medicine of Cluj-Napoca, Romania	Animal health organisation	https://apply.eu-medstudy.com/#study-medicine-in-europe
University of Prishtina "Hasan Prishtina"	Researchers and academia	https://uni-pr.edu/
University of the Balearic Islands	Researchers and academia	https://www.uib.eu/
University of Turin Dept. of Veterinary Sciences	Researchers and academia	https://en.unito.it/
USAMV Cluj-Napoca	Animal health organisation	https://www.usamvcluj.ro/
Wellcome Trust	Funding agency	Climate and health What we do Wellcome
World Health Organization	Public health organisation	https://www.who.int/
World Meteorological Organization	Climate, environment professionals	Homepage World Meteorological Organization WMO
World Organisation for Animal Health	Animal health organisation	https://www.woah.org/en/home/
Local authorities in the Lazio regionItaly	Policy makers/experts	
Catalan Health Institut	Public health organisation	https://ics.gencat.cat/ca/inici/
Fundacio Unio Catalana d'Hospitals	Public health organisation	https://www.uch.cat/fundacio-unio.html
Competence Center Climate & Health	Public health organisation	https://agenda-gesundheitsfoerderung.at/kokug/en
Office of the Tyrolean Provincial Government	Policy makers/experts	https://www.tirol.gv.at/en/
Austrian Federal Environment Agency	Climate, environment professionals	https://www.umweltbundesamt.at/en
Tirol Kliniken, Innsbruck (hospital)	Healthcare provider	https://www.tirol-kliniken.at/page.cfm?vpath=standorte/landeskrankenhaus-innsbruck
Austrian Institute for Health Technology Assessment IQWiG	Researchers and academia	https://www.inahta.org
National Institute for Health and Care Excellence UK	Researchers and academia	https://www.iqwig.de/en/
European Network for HTA	Public health organisation	https://www.nice.org.uk
European Network for HTA	Public health organisation	https://www.eunethta.eu
UNEP Climate and Clean Air Coalition	Civil society	https://www.ccacoalition.org
UNEP International Methane Emissions Observatory	Researchers and academia	https://www.unep.org/topics/energy/methane/international-methane-emissions-observatory
Catalan Advisory Council of Sustainable Development;	Policy makers/experts	https://cads.gencat.cat/ca/qui-som/historia-cads/
European Network of Sustainable Development Advisory Councils	Climate, environment professionals	https://eeac.eu
Sezonieri Austria	NGO	https://www.sezonieri.at/en/startseite_en/#ppl-switcher

Annex 7: Agenda of the first Cluster Workshop

Climate and Health Cluster Workshop on Numerical tools for climate, meteorological, and impact modelling and early warning systems (EWS)

Rationale:

First workshop for the Health Cluster, with the purpose of introducing projects and focusing on methods in particular.

Objectives:

- To share methods and research approaches within the Cluster with respect to predictive models and EWS
- To provide insights into potential synergies and opportunities for shared learning across projects within the Health Cluster.
- To identify key research gaps related to methods

Date: 21-02-2024

Time: 9:00-17:10 (CET)

Location: HaDEA (4th floor No 15 in COV A2). Pl. Charles Rogier 16, 1210 Saint-Josse-ten-Noode Brussels, Belgium & Online

Online meeting link:

<https://econconf.webex.com/econconf/j.php?MTID=m7c0db69f70ff227e36fceb29f5cfb86>

Format: Hybrid (up to 25 in person & up to 50 in total) - partners already in Brussels for the RTD meeting will attend in person and all other partners can attend remotely.

Welcome: **Dr. Stephane Hogan** - Head of Unit for Health Research at HaDEA

Discussion chairperson:

- Introduction: **Daniel San Martín**
- Session 1: Climate, meteorological, economy-wide and sector-specific models within the cluster: **Suzana Blesic**
- Session 2: Statistical and Artificial Intelligence: **Fredrik Wetterhall**
- Closing discussion: **Sergio Natal**

09:00 – Welcome (5m): Dr. Stephane Hogan - Head of Unit for Health Research at HaDEA

09:05 – 10:05 - Introduction (1:00h)

Introduction to the projects and methodologies – numerical approaches to climate and health modelling (10 min each project- 60 min)

Order of presentations:

- BlueAdapt
- CATALYSE
- CLIMOS

- HIGH Horizons
- IDAlert
- TRIGGER

10:05 – 10:35 - Coffee break (30 min) - @ HaDEA cafeteria (1st floor, in COV A1)

10:35 – 12:15- Session 1: Climate, meteorological, economy-wide and sector-specific models within the cluster (1:45h)

10 min explaining approaches within each project in the cluster with respect to numerical models

- what is the research question, application area
- what is the method, scale, data inputs

Discussion session 1- topic tbc e.g. what are key synergies, uncertainties across models

Specific topics to be discussed:

1. Terminology
2. Downscaling (numerical and statistical)
3. Data sources

Order of presentations:

- BlueAdapt
- CATALYSE
- CLIMOS
- HIGH Horizons
- IDAlert
- TRIGGER

Lunch (12:30-13:30) @ HaDEA cafeteria (1st floor, in COV A1)

13:30 – 15:30 - Session 2: Statistical and Artificial Intelligence (2h)

Annex 8: Guidelines for the Climate – Health Cluster publications

It is important to ensure that individuals and institutions are acknowledged accordingly to their contribution to Climate-Health Cluster activities. The purpose of this document is to summarise the Climate-Health Cluster consortium guidelines related to scientific activities, namely consortium publications/authorship policy.

1. Conference abstract authorship and submissions

For abstracts that report on the general activities of the Climate-Health Cluster, authorship should include the lead Cluster partners (PI), and the appropriate WG leaders. The person presenting the abstract orally or verbally can be named as the primary author in the author list. Other authors should be listed alphabetically; the exception is the Climate-Health Cluster PIs, who should be the last authors listed alphabetically in the case that they are not the corresponding author.

For abstracts that report on specific aspects of Climate-Health Cluster activities, e.g. a WG activity involving a subset of Climate-Health Cluster partners, then authorship should follow the guidelines below as described for Climate-Health Cluster publications. As stated in this case, authorship will likely include more than one researcher per project partner, and authorship should be carefully negotiated with Climate-Health Cluster WG leaders.

All abstracts should include the funding acknowledgement statement:

The projects that form the European Climate and Health Cluster have received funding from the European Union's Horizon Europe research and innovation programme, under grant agreement No. 101057764 (BlueAdapt), No. 101057131 (CATALYSE), No. 101057690 (CLIMOS), No. 101057843 (HIGH Horizons), No. 101057554 (IDAlert), and No. 101057739 (TRIGGER). BlueAdapt also receives funding from UKRI grants Nos. 10052955 and 10049774, CLIMOS from UKRI grants Nos. 10038150 and 10039289, and HIGH Horizons from UKRI grant No. 10038478.

All abstracts should be submitted to the Climate-Health Cluster **Scientific Steering Committee** at least one week prior to conference/journal submission to ensure authorship agreement and integrity. The Committee review process will confirm:

1. that the corresponding author has received written approval from all co-authors regarding their inclusion and authorship position;
2. that the authorship aligns with the Climate-Health Cluster publication general policy.

In case the one-week period cannot be met, the abstract should be submitted to the Cluster coordinating team.

2. Publications and authorship

The Climate-Health Cluster will follow the guidelines of the [Committee on Publication Ethics \(COPE\)](#) which addresses good practices in the authorship of research publications, whilst acknowledging that specific regulations may vary between different disciplines, academic institutions, journals and commercial companies.

In summary, any person, including research students, research assistants, research officers, technical officers, and other support staff, who has participated in a substantial way in conceiving, executing, or interpreting the relevant research must be given the opportunity to be included as an author of a publication derived from that research.

The contribution of each author to the work is usually required by scientific journals and under specified headings to fulfil the e.g. ICMJE criteria for authorship ([ICMJE Recommendations 2018](#)).

The Climate-Health Cluster recommends contributors to collectively reach agreement on expected responsibilities, research activities, and order of co-author authorship.

Any person who has not participated in a substantial way in conceiving, executing, or interpreting the relevant research is not included as an individual or member of the Climate-Health Cluster author (see below).

Publication and dissemination of work electronically or on the web should be treated with the same degree of integrity as every other form of publication.

2.1. Consortia authorship

In addition to the primary authors who lead the publications, a collective of authors can be listed as the “The Climate-Health Cluster”. Valid membership for individual publications should meet the criteria for authorship as stated above. The Climate-Health Cluster usually includes those that generate primary data used by other members of the Climate-Health Cluster for secondary analyses, e.g., those that collect primary arthropod vector or disease data should be considered as secondary authors on papers using those data for secondary purposes such as modelling.

Contributing secondary authors’ names and affiliations will be listed according to the specific journal requirements. The list of contributing secondary authors will therefore vary between publications.

If necessary, individual authors can be listed in both the main author list and as a member of the appropriate project name and the Climate-Health Cluster.

If necessary, all Climate-Health Cluster members that did not directly contribute to the paper, could be listed in the Supplementary Information depending on the journal policy. Partners will have the option to opt out of such a list.

To facilitate submission of manuscripts with large author lists, it is necessary to consult the journal editor before submission.

2.2. Pre-submission to the Climate-Health Cluster Scientific Steering Committee

All final drafts arising using Climate-Health Cluster data, derivatives of the data, or referring to Climate-Health Cluster methodologies or activities, must be submitted to the Climate-Health Cluster Scientific Steering Committee at least one week prior to journal submission to ensure authorship agreement and integrity.

The Committee review process will confirm:

- a) that the corresponding author has sent all co-authors the final draft and have received their approvals for their inclusion and position of authorship, and for submission and publication of the work;
- b) that the authorship aligns with the Climate-Health Cluster general publication policy;
- c) that the appropriate ethical approvals, and correct funding statements are included;
- d) that there are no issues concerning data and information governance in the paper / supplementary materials;
- e) that the scientific conclusions of the paper are broadly robust.

To achieve (e), specialist members of the Climate-Health Cluster projects will be identified to aid in the scientific review process as and when required.

A key aim is to get papers published as quickly as possible while maintaining fairness, equity and quality. Authors should not submit to a journal or preprint archive until receiving sign off; the same applies to conference abstract submissions, oral presentations, posters, symposium sessions, etc. If circumstances dictate, a rapid review process will be available.

2.3. Authorship Disputes

Any disputes or issues on authorship will refer to <https://ukrio.org/wp-content/uploads/UKRIO-Guidance-Note-Authorship-v1.0.pdf> for guidance to reach a mutually acceptable consensus. A request for delay in the publication of results is possible, if justified, the Climate-Health Cluster could establish *a priori* lists of potential authors matched to anticipated investigations as soon as possible to avoid any disputes. WG leaders should endeavour to involve partners or eligible external authors who would like to make major contributions to manuscript development by prior discussions.

2.4. Open Access

The EU (and UKRI) requires that all peer-reviewed scientific publications relating to Climate-Health Cluster results are made “Open Access” following standard OAC guidelines. Note that the Commission facilitates Open Access through initiatives such as [Open Research Europe](#) and the [European Open Science Cloud](#).

A Creative Commons Attribution (CC BY) public copyright licence should be applied to all Author Accepted Manuscripts arising from submissions to peer-reviewed journals that report original research. Alternatively, Climate-Health Cluster authors can request individual articles to be published under a Creative Commons No-Derivatives licence (CC BY-ND), so that the research cannot be used to create derivatives works without permission of the Climate-Health Cluster Scientific Steering committee.

3. Funders acknowledgement

The funders of the six Climate-Health Cluster projects must be acknowledged on all publications using the following sentence:

The projects that form the European Climate and Health Cluster have received funding from the European Union’s Horizon Europe research and innovation programme, under grant agreement No. 101057764 (BlueAdapt), No. 101057131 (CATALYSE), No. 101057690 (CLIMOS), No. 101057843 (HIGH Horizons), No. 101057554 (IDAlert), and No. 101057739 (TRIGGER). BlueAdapt also receives funding from UKRI grants Nos. 10052955 and 10049774, CLIMOS from UKRI grants Nos. 10038150 and 10039289 and HIGH Horizons from UKRI grant No. 10038478. The study is catalogued by the Climate-Health Cluster Scientific Steering Committee number XXX (weblink). The contents of this publication are the sole responsibility of the authors and do not necessarily reflect the views of the European Commission, the Health and Digital Executive Agency, or UKRI. Neither the European Union nor UKRI can be held responsible. The funders had no role in study design, data collection and analysis, decision to publish, or preparation of the manuscript. For the purposes of Open Access, the authors have applied a CC BY [option: CC BY-ND] public copyright licence to any Author Accepted Manuscript version arising from this submission.

Press releases

Press releases will be managed by the WG3 Climate-Health Cluster Communications Team followed with approval of the Climate-Health Cluster Scientific Steering Committee. Specifically, the first version of each Press Release will be written by the appropriate lead author Communications Team, which will be sent to the Climate-Health Cluster Scientific Steering Committee for validation. On validation, the Press releases will be uploaded to the Climate-Health Cluster website (in the News section) and then disseminated through the six Climate-Health Cluster projects and their individual projects social media channels.

Each Press Release will have the following acknowledgment:

The projects that form the European Climate-Health Cluster have received funding from the European Union's Horizon Europe research and innovation programme, under grant agreement No. 101057764 (BlueAdapt), No. 101057131 (CATALYSE), No. 101057690 (CLIMOS), No. 101057843 (HIGH Horizons), No. 101057554 (IDAlert), and No. 101057739 (TRIGGER). BlueAdapt also receives funding from UKRI grants Nos. 10052955 and 10049774, CLIMOS from UKRI grants Nos. 10038150 and 10039289 and HIGH Horizons from UKRI grant No. 10038478. The contents of this Press Release are the sole responsibility of the authors and do not necessarily reflect the views of the European Union or the European Health and Digital Executive Agency (HADEA), or the UKRI. Neither the European Union, nor HADEA, nor UKRI can be held responsible for them. For more information, please contact weblink (to be added).

