



News and updates from the ENBEL project

Record breaking temperatures – heatwaves are getting hotter and can be expected earlier

This summer has started with unprecedented heatwaves and record high temperatures in many places even before the summer solstice, giving a sign of what we can expect and the challenges it may pose for our health. Heatwaves are deadly, but the health impacts can often be prevented with the right measures. [We talked to our experts to learn more.](#)



High-level CHANCE conference in South Africa addressed how to advance African climate change, health policies and financing



The Climate Health Africa Network for Collaboration and Engagement (CHANCE), successfully conducted its first on-site meeting in Tswane, South Africa, 23-24 June gathering more than 60 onsite and more than 150 virtual attendees. [Read more.](#)

Click [here](#) to receive our next newsletter on climate & health!

Heat Action Day raises awareness of extreme heat risks



HOW CAN YOU #BEATTHEHEAT?

WATER

SHADE

REST



Graphics made for Heat Action Day.

Heatwaves are deadly. But there are simple actions we can all take to protect ourselves, our neighbours, our family members and friends. These include drinking water, resting in the shade, and avoiding outdoor activity in the hottest part of the day. Heat Action Day 2022 on June 14 was organized by the IFRC, Red Cross Red Crescent Climate Centre and Global Disaster Preparedness Center to raise awareness. [Read more.](#)

ENBEL with HEAL at the European Public Health Week

During the climate and health day of the European Public Health Week 2022, ENBEL kicked off a full day of events together with the European Public Health Association (EUPHA)

and Health and Environmental Alliance
HEAL.

Our network of project contributed
with video messages about climate
change and health.

Watch the ones about heat! Check
the videos on the right:

- Heat affects our health, and it
can especially be a problem for
outdoor workers.
- Watch real stories of mothers
and their babies and children in
Africa and how they cope with
heat stress.
- Climate change and infectious
diseases are connected through
extreme heat and extreme
precipitation.
- Connection between climate
change, heat and air pollution.

See the [recording](#) from the event
that featured the latest science on the
health impacts of climate change,
educational videos from ENBEL
researchers, ongoing EU policy
developments and health sector
involvement.





Extreme heat is a key climate change health risk. Heatwaves affects everyone, but some people are more vulnerable & at higher risk.

Many of the research projects in ENBEL work to find out how different vulnerable groups can adapt to increasing heat risk. Click on the graphics below to learn more.

Graphics made for Heat Action Day organised by by the IFRC, Red Cross Red Crescent Climate Centre and Global Disaster Preparedness Center.

EVERYONE IS AT RISK FROM HEATWAVES



BUT SOME PEOPLE ARE AT HIGHER RISK

PREGNANT WOMEN MAY GO INTO LABOR EARLY

LACTATING WOMEN ARE MORE LIKELY TO BECOME DEHYDRATED



CHRONIC MEDICAL CONDITIONS CAN BE EXACERBATED BY HEAT

E.G. HEART DISEASE, LUNG AND KIDNEY CONDITIONS, DIABETES AND MENTAL ILLNESS.



ADULTS OVER 65 HAVE A HARDER TIME REGULATING BODY TEMPERATURE



YOUNG CHILDREN ARE MORE SENSITIVE TO HIGH TEMPERATURES

THEY RELY ON OTHERS TO KEEP COOL AND HYDRATED



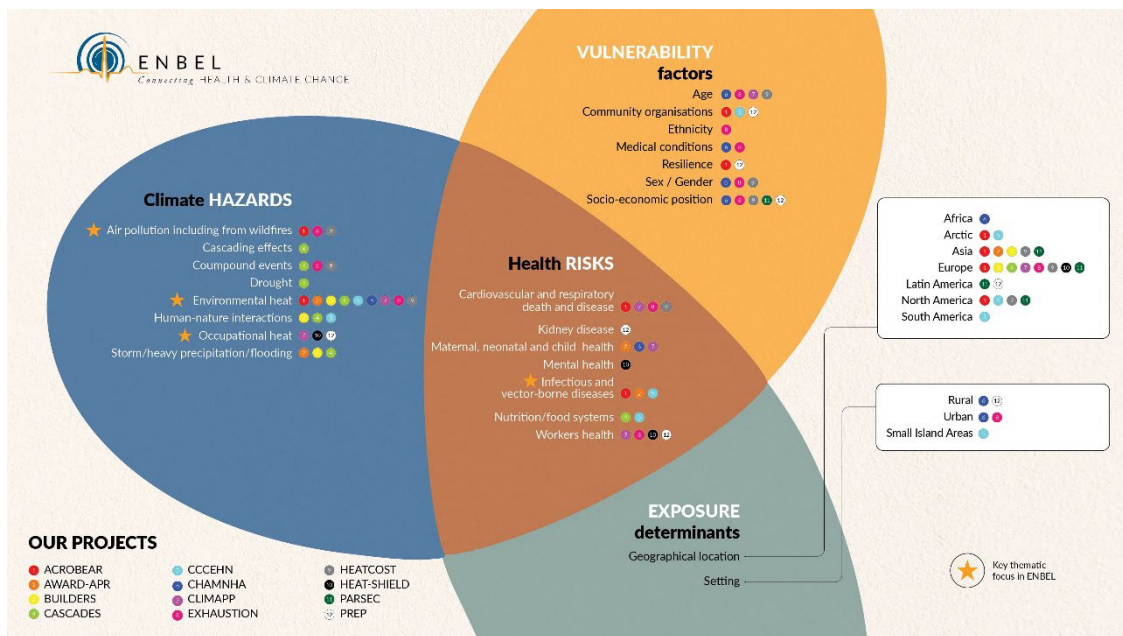
OUTDOOR WORKERS ARE MORE EXPOSED TO HEAT AND AIR POLLUTION



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ENBEL - Enhancing Belmont Research Action to support EU policy making on climate change and health

– is a project funded by the EU's Horizon2020 programme aimed at connecting health and climate change research. Specifically, ENBEL brings together leaders in climate change and health research and coordinates a network of international health and climate research projects under the Belmont Forum's Collaborative Research Action (CRA) on Climate, Environment and Health (CEH) and EU-funded projects. Read more on www.enbel-project.eu



This figure shows the climate hazards, vulnerability factors, health risks and exposure determinants represented in the ENBEL consortium and through the associated projects, and highlights our key thematic focus.

News & knowledge from our network of climate & health projects

Unchecked emissions could double heat-related child mortality



New research suggests that if carbon emissions are limited to slow temperature rise, up to an estimated 6,000 child deaths could be prevented in Africa each year. [Read more from London School of Hygiene and Tropical Medicine.](#)

Both heat and cold increase risk of death in England and Wales but rates vary across geographical areas and population groups



New risk estimates suggests London and other urban areas had the highest heat-related mortality rate, while cold-related deaths were highest in Northern England, Wales and the South West. [Read more from London School of Hygiene and Tropical Medicine.](#)

ThermoChromic Art: Visualizing the power of extreme temperatures, and how to get ready



Heatwaves, like art, can be most impactful when crossing critical thresholds that trigger abrupt change. Yet most people and organizations remain insufficiently aware of the severe threat posed by heatwaves, probably in part because risk communication about extreme temperatures has been dominated by conventional approaches that have failed to inspire. [Read more from Climate Centre.](#)

Reduced air pollution is key to reduce negative health effects of heat



“On days when we have heat and at the same time a high level of air pollution, we observe much higher effects on mortality and hospital admissions caused by heart disease or lung disease”, senior scientist Dr. Alexandra Schneider from Helmholtz Munich says. [Read more from EXHAUSTION.](#)

Podcast tip: Cant' take the heat

In this episode, host Roop Singh from the Climate Centre talks to IFRC President Rocca, as well as representatives from the Bangladesh Red Crescent, Norwegian Red Cross and even the Chief Heat Officer from Athens, Greece about why we should care about heat risks and how we can address them. [Listen to the podcast.](#)



Featured project

Translating climate service information into personalized adaptation strategies to cope with thermal climate stress



How does climate change impact the health of the people you study?

Climate change has increased the frequency and intensity of extreme weather events. Heatwaves pose a threat to human health, well-being and productivity. The impact of heat stress depends also on individual factors and vulnerability.

Why is the ClimApp project important?

Current heatwave early warning systems are mainly based on air temperature. ClimApp extends and complement current climate services by taking into account individual factors and all thermal climate variables to provide personalized heat-health early warnings and advice to build health resilience to climate risks.

[Find out more about ClimApp and download the app.](#)

[Video about ClimApp](#)

Recent scientific publications from our network

[CHAMNHA project](#)

Past and projected climate change impacts on heat-related child mortality in Africa, Environmental Research Letters, Volume 17, Number 7, 4 July 2022. <https://doi.org/10.1088/1748-9326/ac7ac5>

Ambient temperature during pregnancy and risk of maternal hypertensive disorders: A time-to-event study in Johannesburg, South Africa, Environmental Research 4 June 2022 <https://doi.org/10.1016/j.envres.2022.113596>

Associations between ambient temperature and risk of preterm birth in Sweden: A comparison of analytical approaches, Environmental Research, June 2022 <https://doi.org/10.1016/j.envres.2022.113586>

Physiological mechanisms of the impact of heat during pregnancy and the clinical implications: review of the evidence from an expert group meeting, International Journal of Biometeorology, 2022, [10.1007/s00484-022-02301-6](https://doi.org/10.1007/s00484-022-02301-6)

[AWARD APR project:](#)

Effects of Climatic Factors on Diarrheal Diseases among Children below 5 Years of Age at National and Subnational Levels in Nepal: An Ecological Study, International Journal of Environmental Research and Public Health, 2022, 19 <https://doi.org/10.3390/ijerph19106138>

El Niño Southern Oscillation, monsoon anomaly, and childhood diarrheal disease morbidity in Nepal, PNAS Nexus, Volume 1, Issue 2, May 2022 <https://doi.org/10.1093/pnasnexus/pgac032>

HEATCOST project

Forecasting the regional fire radiative power for regularly ignited vegetation fires, Nat. Hazards Earth Syst. Sci., 22, 1335–1346, <https://doi.org/10.5194/nhess-22-1335-2022>, 2022. [Link to full text](#)

EXHAUSTION project

Small-area assessment of temperature-related mortality risks in England and Wales: a case time series analysis, The Lancet Planetary Health, 7 July 2022 [https://doi.org/10.1016/S2542-5196\(22\)00138-3](https://doi.org/10.1016/S2542-5196(22)00138-3)

Climate change and cardiovascular disease: implications for global health, Nature Reviews Cardiology, 7 June 2022 <https://doi.org/10.1038/s41569-022-00720-x>

An emergency response model for the formation and dispersion of plumes originating from major fires (BUOYANT v4.20), Geoscientific Model Development, 24 May 2022 <https://doi.org/10.5194/gmd-15-4027-2022>

[About all the projects in the ENBEL network](#)

Upcoming events

18-21 SEPTEMBER 2022 – Athens, Greece
SYMPOSIUMS at the 34th Annual International Society for Environmental Epidemiology Conference, our network project will organise the following symposiums:

[Climate change, heat and maternal health: estimating current and future burdens \(CHAMNHA\)](#)

[The project EXHAUSTION - Heat and air pollution effects on cardiopulmonary mortality and morbidity: geographical variability and vulnerable groups in Europe](#)



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