

## ENBEL NEWSLETTER NUMBER 3 APRIL 2021.



### News and updates from the ENBEL project

#### What does the IPCC report tell us about health effects of heat, air pollution and infectious diseases?



The recently published report on Impacts, Adaptation and Vulnerability of the IPCC's 6th Assessment Report (AR6) paints a gloomy picture of what the future may hold regarding impacts of climate change. We have looked at some of the main findings regarding the core topics of the ENBEL project – health impacts related to environmental and occupational heat, air pollution (including from wildfires), and infectious diseases. [Read more.](#)

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#### ENBEL new member of WHO-Civil Society Working Group on Climate and Health



The ENBEL project is accepted as a member of the WHO-Civil Society Working Group to advance action on Climate and Health for the next two years. [Read more.](#)

## **Linking climate change and health: Summarizing stakeholder interviews in Norway**



ENBEL partner Norwegian Institute of Public Health interviewed Norwegian decision-makers at local and national level about how they work with adaptation to reduce the health effects of climate change. They found no clear connection between climate adaptation and health adaptation strategies in the surveyed Norwegian municipalities. [Read more.](#)

## **Synergies and joint actions between EU funded climate and health projects discussed**



How can projects working on heat and workers health, cardiopulmonary impacts of heat and air pollution, cascading climate risks and social vulnerability and community resilience find potential synergies and joint actions? [Read more.](#)

**VACANCY: Want to join the ENBEL project?**



London School of Hygiene & Tropical Medicine's Department of Public Health, Environments & Society is looking for a research assistant to work on the ENBEL project. The successful candidate will conduct a gap analysis on climate change adaptation in the health system in Europe, and Southern and East Africa. [Read more.](#)

### **Podcast tip: Maternal, Newborn, and Child Health**

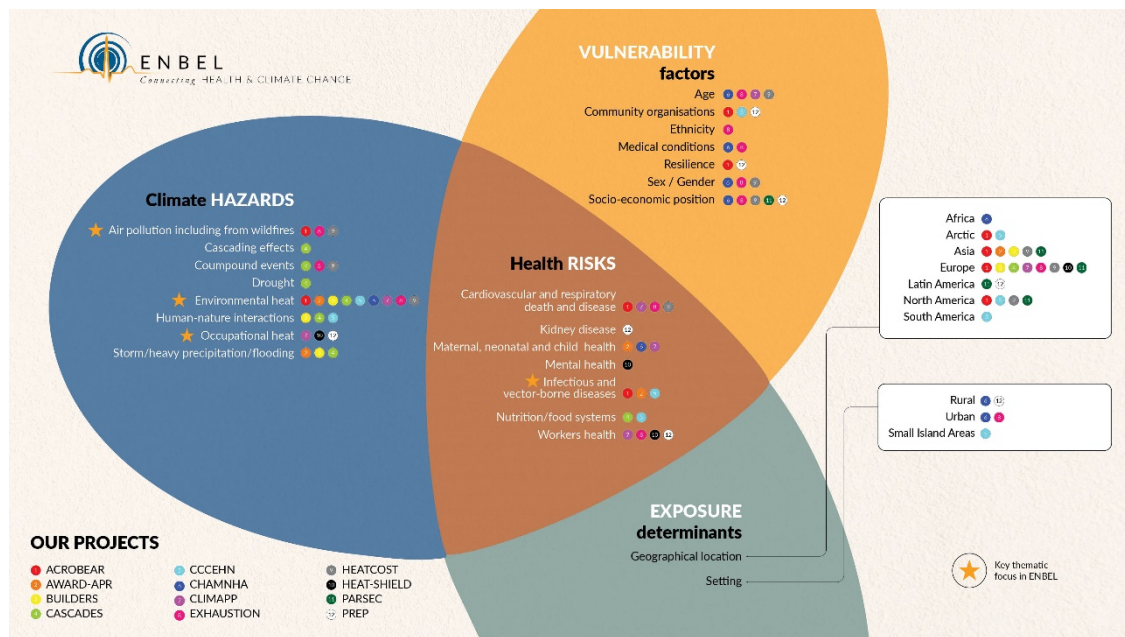


Check out this podcast on climate change and health from USAID. In the episode on Maternal, Newborn, and Child Health, Sari Kovats (co-lead of the CHAMNHA project) is one of the guest speakers. [Tune in!](#)

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

**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](http://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

### Improving workers' health in Central America



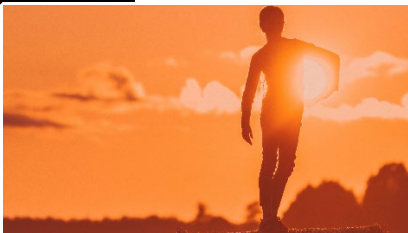
ENBEL partner La Isla Network gets 8 million USD in new funding from the US Government to improve workers' health and safety in the face of climate change in Central America. [Read more.](#)

### How much climate finance goes to health?



Health specialists at the Climate Centre are analysing flows of adaptation finance and looking at how much of this funding is used for local health programming. Preliminary results from our research on national commitments and funding streams provides an insight into the landscape of climate action. [Read more.](#)

### Climate extreme indices and heat stress indicators derived from CMIP6 global climate projections



The dataset provides climate extreme indices related to temperature and precipitation as defined by the Expert Team on Climate Change Detection and Indices (ETCCDI), as well as selected heat stress indicators (HSI). It was produced on behalf of the Copernicus Climate Change Service. [Find out more.](#)

### Climate change and health: overview of national policies in Europe



The European Climate and Health Observatory has made a summary of an investigation carried out into the EEA's 38 member and collaborating



countries' policies on climate change adaptation and their national health strategies, as the key policy areas through which climate change impacts on health can be addressed. [Read more on the European Climate and Health Observatory](#)

## Featured project

### **Building European Communities' Resilience and Social Capital (BuildERS)**



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

Extreme weather events make it more difficult for the most marginalised and homeless to access food, shelter and psycho-social support. Experiences in weather extremes and climate-driven disasters (e.g. forest fires) causes long-term trauma that makes individuals less resilient to upcoming crises.

**Why is the BuildERS project important?**

In collaboration with medical, social and rescue services, the BuildERS project has developed innovative tools for identifying (vulnerability assessment) and planning measures (e.g. to overcome information disorder) for mitigating vulnerabilities that may aggravate due to climate change and extreme weather events.

Find out more about the results from the [BuildERS project](#).

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### BuildERS project:

Orru, K., Hansson, S., Gabel, F., Tammpuu, P., Krüger, M., Savadori, L., Meyer, S. F., Torpan S., Jukarainen, P., Schieffellers, A., Lovasz, G., Rhinard, M. (2021) **Approaches to 'vulnerability' in eight European disaster management systems**, Disasters, <https://doi.org/10.1111/disa.12481>

Morsut, C., Kuran, C., Kruke, B. I., Orru, K., Hansson S. (2021), **Linking resilience, vulnerability, social capital and risk awareness for crisis and disaster research**, Journal of Contingencies and Crisis Management <https://doi.org/10.1111/1468-5973.12375>

### AWARD APR project:

Adams, N., Dhimal, M., Mathews, S., Iyer, V., Murtugudde, R., Liang, X., Haider, M., Cruz-Cano, R., Thu, D.T.A., Hashim, J. H., Gao, C., Wang, Y., Sapkota, A., (2022) **El Niño Southern Oscillation, Monsoon Anomaly and Childhood Diarrheal Disease Morbidity in Nepal**, PNAS Nexus, 2022;, pgac032, <https://doi.org/10.1093/pnasnexus/pgac032>

### ClimApp project:

Kingma, B.R.M.; Steenhoff, H.; Toftum, J.; Daanen, H.A.M.; Folkerts, M.A.; Gerrett, N.; Gao, C.; Kuklane, K.; Petersson, J.; Halder, A.; et al. (2021) **ClimApp—Integrating Personal Factors with Weather Forecasts for Individualised Warning and Guidance on Thermal Stress**. Int. J. Environ. Res. Public Health 2021, 18, 11317. <https://doi.org/10.3390/ijerph182111317>

### HEATCOST project

Hu, X., Han, W., Wang, Y., Aunan, K., Pan, X., Huang, J., & Li, G. (2022). **Does air pollution modify temperature-related mortality? A systematic review and meta-analysis**. Environ Res, 112898. doi:10.1016/j.envres.2022.112898 [Link to full text](#)

Schwingshackl, C., Sillmann, J., Vicedo-Cabrera, A. M., Sandstad, M., & Aunan, K. (2021). **Heat Stress Indicators in CMIP6: Estimating Future Trends and Exceedances of Impact-Relevant Thresholds**. Earth's Future, 9(3). doi:10.1029/2020ef001885 [Link to full text](#)

### EXHAUSTION project

Zafeiratou, S., Samoli, E., Dimakopoulou, K., Rodopoulou, S., Analitis, A., Gasparrini, A., Stafoggia, M., De' Donato, F., Rao, S., Monteiro, A., Rai, M., Zhang, S., Breitner, S., Aunan, K., Schneider, A., Katsouyanni, K.(2021), **A systematic review on the association between total and cardiopulmonary mortality/morbidity or cardiovascular risk factors with long-term exposure to increased or decreased ambient temperature**, Science of The Total Environment <https://doi.org/10.1016/j.scitotenv.2021.145383>

Sillmann, J., Aunan, K., Emberson, L., Büker, P., Van Oort, B., O'Neill, C., . . . Brisebois, A. (2021). **Combined impacts of climate and air pollution on human health and agricultural productivity**. Environmental Research Letters, 16(9). doi:10.1088/1748-9326/ac1df8 [Link to full text](#)

### HEAT-SHIELD project:

García-León, D., Casanueva, A., Standardi, G., Burgstall, A., Flouris, A. D., & Nybo, L. (2021). **Current and projected regional economic impacts of heatwaves in Europe**, Nat Commun. <https://www.nature.com/articles/s41467-021-26050-z.pdf?origin=ppub>

### PREP project

Andersson, A, Hansson, E, Ekström, U, et al (2022) **Large difference but high correlation between creatinine and cystatin C estimated glomerular filtration rate in Mesoamerican sugarcane cutters** Occupational and Environmental Medicine <https://pubmed.ncbi.nlm.nih.gov/35354651/>

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

## In the spotlight

### EU Mission: Adaptation to Climate Change



The main goal of the [EU Mission on Adaptation to Climate Change](#) is to support at least 150 European regions and communities towards climate resilience by 2030. The mission will foster the development of innovative solutions to adapt to climate change and encourage regions, cities and communities to lead the societal transformation. Its focus is on the systemic approach of the key community systems: health and wellbeing, critical infrastructure, land use and food systems, water management, and enabling conditions like knowledge, governance or behavioural change.

ENBEL aims to support such and similar actions of the EU where we can provide research syntheses on key policy-relevant questions and fill knowledge gaps on climate change and health linkages.

## Upcoming events

3 MAY 2022 CHAMNHA session at Geneva Health Forum  
[Mapping and modelling climate risks for maternal and newborn health services](#)

18 MAY 2022 - [Event at the European Public Health Week - Climate change affects our health day \(ONLINE\)](#).



20-24 JUNE 2022 - Pretoria, South Africa/Online  
ENBEL and partners will organise two sessions at  
the Sustainability Research and Innovation Congress 2022  
(SRI2022):

[Interventions to reduce the impacts of extreme heat on health in Africa: a set of case studies across the continent and an interventional framework](#)

[Transdisciplinary research for climate and health: lessons learned on co-design in the Belmont Forum Climate, Environment and Health projects](#)

23-24 JUNE 2022 - Pretoria, South Africa  
CHANCE Network Meeting - [Climate-Health Africa Network for Collaboration and Engagement](#)

18-21 SEPTEMBER 2022 - Athens, Greece  
SYMPOSIUM at the 34th Annual International Society for  
Environmental Epidemiology Conference: [The project EXHAUSTION - Heat and air pollution effects on cardiopulmonary mortality and morbidity: geographical variability and vulnerable groups in Europe](#)



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[ENBEL project - connecting health and climate change](#)

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