

8th International
Conference on
BIG DATA
& Data Science for Official Statistics

BILBAO 2024

Informing Climate Change and
Sustainable Development Policies
with Integrated Data

BILBAO. SPAIN **10-14 JUNE 2024** **#UNBigData2024**

Standards for Official Statistics on Climate-Health Interactions

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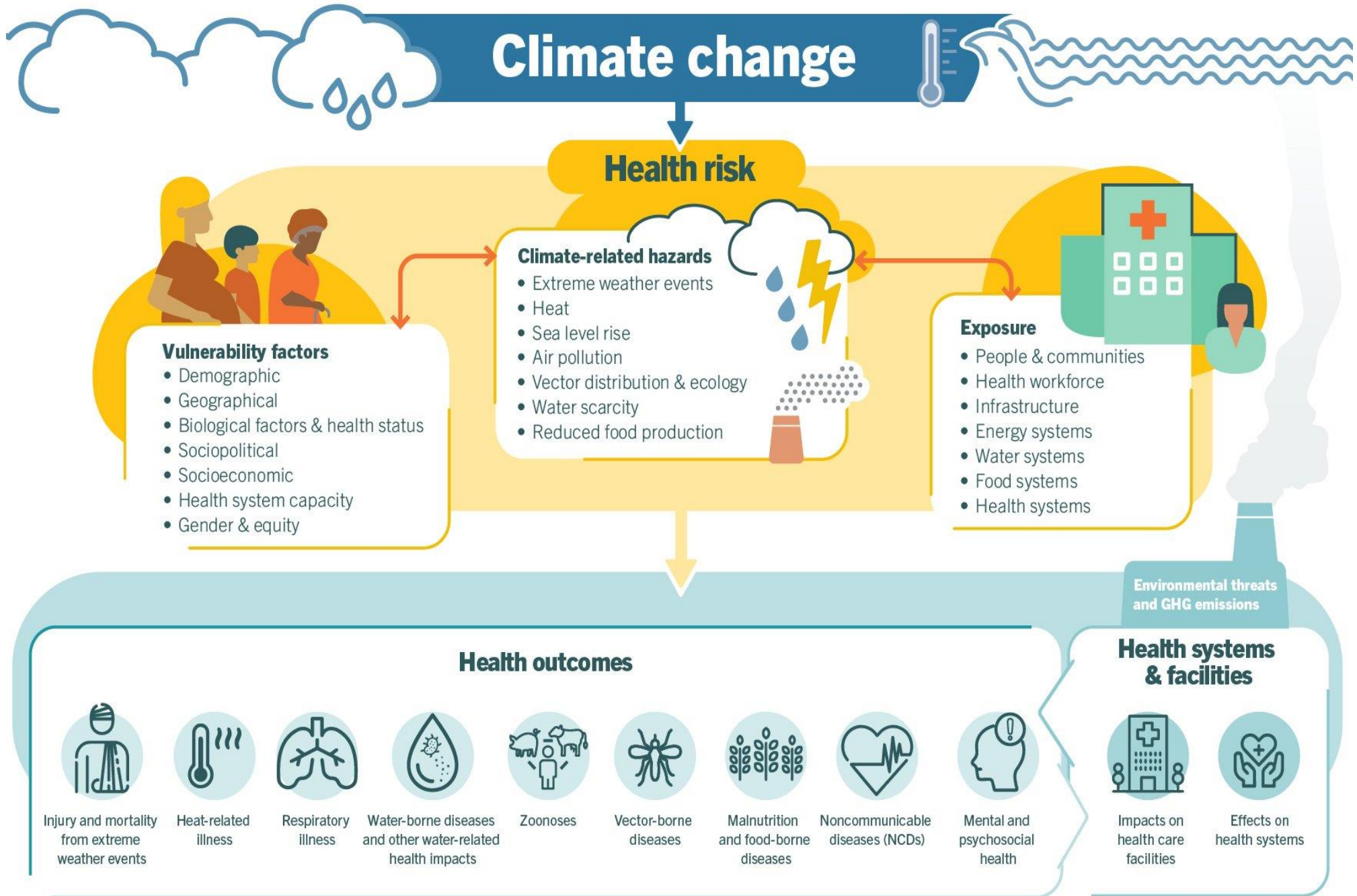


Figure Reference : WHO

What is this project about?

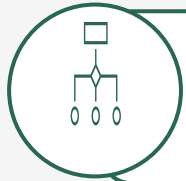
What problem are we trying to solve?

- Despite the extensive science on climate change, there is a shortage of measures and tools to monitor impact on health of climate change

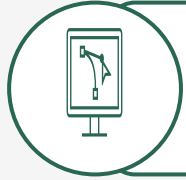
How are we doing it?

- Publish an agreed statistical framework of standard indicators
- Develop an online platform and open-source software tools to support global use of the indicators

Project Overview



Define a statistical framework and unified methods for official reporting of climate change impacts on health, at national and local levels



Develop a **global reporting and knowledge-sharing platform** with an open-source toolset in line with the agreed framework

Discovery Phase 2022/23

- UK Climate and Health team launched
- Project aims developed
- Partner selection and onboarding

Alpha Phase 2023/24

- Topic Expert Groups (TEGs) established
- Development of Alpha draft
- Internal testing with project partners

Beta Phase 2024/25

- Refine framework and metrics
- Final development added to online platform
- Global pilots for National Statistical Offices to test

Launch year 2025/26

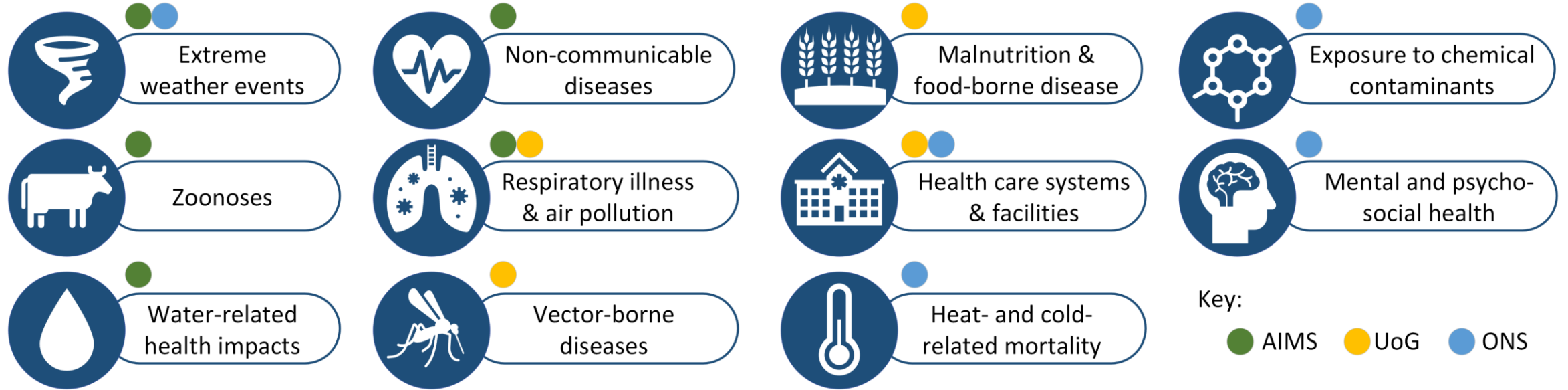
- Final drafts signed off
- Framework endorsed by key stakeholders
- Launch platform and publish framework

Who is involved in the project?

- UN Global Data Platform
- African Institute for Mathematical Sciences, Rwanda
- University of Ghana, Regional Institute for Population Studies
- Cochrane Network Climate Working Group (University of Alberta)
- UK Health Security Agency
- Global academic experts
- DataKind non-profit



Planned scope of climate-health indicators



UN Global Set of indicators on climate change

CONNECTING TO

SDG targets and indicators

Aims and target users



Global providers of official statistics

- Direct users will be primarily **analysts** responsible for **producing official statistics** on climate change and health for their country/region



Policymakers for climate action

- Policymakers, media, public; these statistics should support and evidence prioritisation of action against climate change



Wider users

- Academics, students, NGOs, anyone will be able to draw on our open-source tools to develop climate analysis more quickly, easily, and consistently

Adapt existing climate and/or health **indicators and definitions** where applicable

Priority – the health impact is a widely experienced problem where policy action is needed

Relevance – clear causal pathway from climate effect to health impact. Wider climate change is out of scope

Global Data Platform

Enables sharing of the framework and indicator data

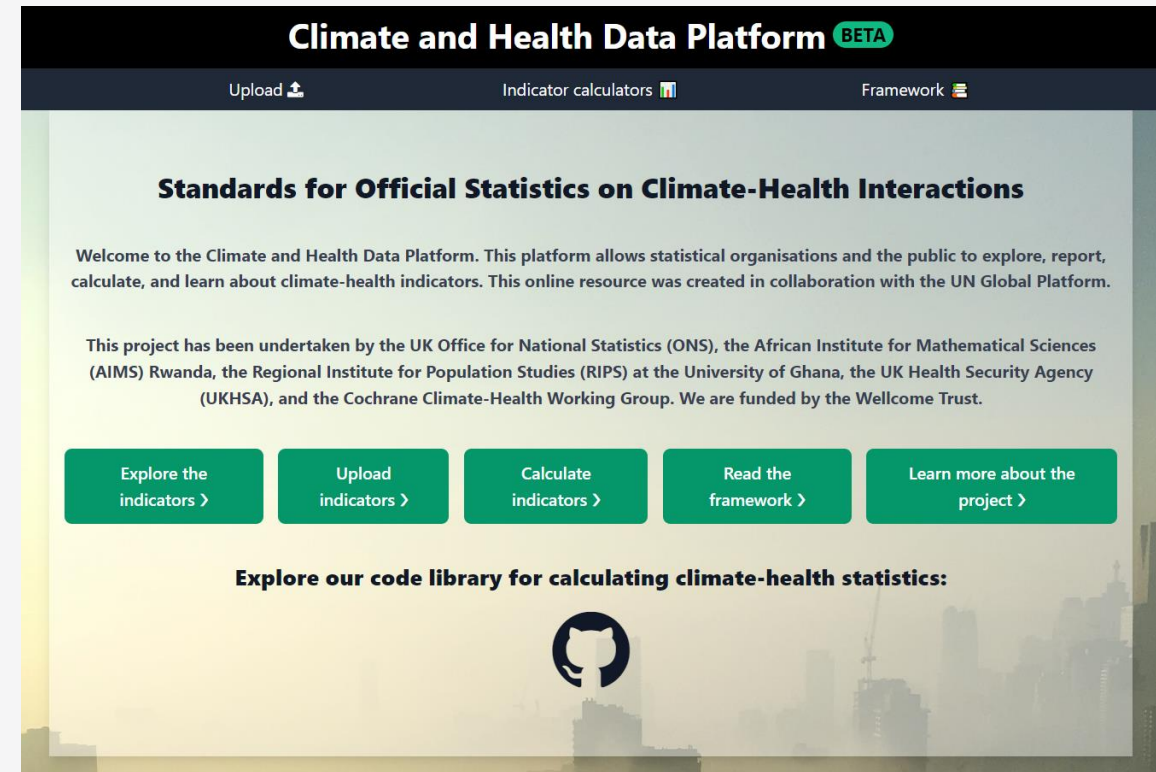
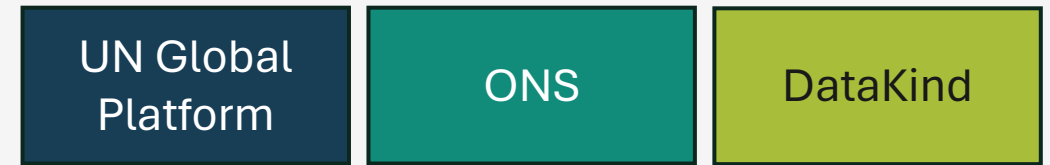
Access to statistical framework and methods

- Documentation on indicators will be online to view or download

Calculate and visualise data for climate-health indicators

- Indicators calculated by R package API via platform website - no coding experience required
- Code will be available as downloadable open-source packages to use offline and incorporate into other projects or workflows
- Tool to automate pairing of health and climate data

Upload and explore indicator data



Disseminating the framework and software

- UN Global Data Platform is hosting our online platform, tools and database developed in collaboration with ONS and DataKind (now in Beta with heat-mortality indicator)
- Platform will allow users to upload data, calculate and visualise the climate-health indicators
- Indicators calculated by R package and API developed by ONS and hosted by UN Global Platform
- All calculations will be available as downloadable open-source packages to use offline and incorporate into other projects or workflows
- All documentation on the indicators will be online to search or download, including methodology details, data requirements, supporting scientific literature

Standards for Official Statistics on Climate-Health Interactions

Welcome to the Climate and Health Data Platform. This platform allows statistical organisations and the public to explore, report, calculate, and learn about climate-health indicators. This online resource was created in collaboration with the UN Global Platform.

This project has been undertaken by the UK Office for National Statistics (ONS), the African Institute for Mathematical Sciences (AIMS) Rwanda, the Regional Institute for Population Studies (RIPS) at the University of Ghana, the UK Health Security Agency (UKHSA), and the Cochrane Climate-Health Working Group. We are funded by the Wellcome Trust.

[Explore the indicators >](#)[Upload indicators >](#)[Calculate indicators >](#)[Read the framework >](#)[Learn more about the project >](#)

Explore our code library for calculating climate-health statistics:



Placeholder for demo recording

Way forward and how to engage with our work?

Stakeholder engagement

User Feedback on Statistical framework and Global knowledge platform

Engagement with Expert Advisory Group



Standards for Official Statistics on Climate-Health Interactions

Thank you for your attention

Contact us at climate.health@ons.gov.uk