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DEVELOPMENT OF STANDARDS FOR OFFICIAL STATISTICS ON CLIMATE-HEALTH INTERACTIONS

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Country	United Kingdom
Short description	Development of a transparent and globally generalisable framework for official statistics on climate change and health containing a series of applicable metrics and to create a global reporting and knowledge-sharing platform and open-source toolset to facilitate high quality research and official statistics in line with the agreed framework to investigate impact of climate change on health. Finally, to explore statistical methods to provide estimates of climate-related health risk using real world data sources, including novel and big data, and modelling local health impacts.
Keywords	
Thematic area	• Health
Characteristics of the reference area	• Urban • Rural
Type of statistical product or activity	• Indicator(s) • Linking data from several sources • Data analysis • Modelling impact
Adaptation approaches	• **"Soft" adaptation** – policy, legal, social, management and financial measures
Concepts covered	• Impacts
Hazard type covered	• Coastal flood • Drought • Heatwave • Wildfires • Algal bloom • Foodborne diseases • Waterborne diseases • Vector borne diseases
Additional keywords	The list of Indicators/topic areas investigated in this project: • Heat- and cold-related mortality and morbidity • Air pollution • Injury and mortality from extreme weather events (e.g. flooding, wildfires, drought, storms)

	• Water-borne diseases and other water-related health impacts • Non-communicable diseases • Respiratory illness (Zoonoses) • Vector-borne disease (Zoonoses) • Mental and psychosocial health • Malnutrition and food-borne diseases • Exposure to chemical contaminants • Effects on healthcare systems and facilities

Description

1.   We are currently developing the Statistical Framework and global technical knowledge sharing platform in order to investigate the impact of climate change on human health. Under this current activity we are planning to develop a transparent and globally generalisable framework for official statistics on climate change and health. Furthermore, statistical methods to provide estimates of climate related health risk using real datasets and finally to develop global reports and knowledge-sharing platform and open-source toolsets to facilitate high quality research and official statistics in line with the agreed framework (ongoing activity).

2.   With rising temperature, wildfires, extreme events and increasing air pollution due to climate change and the impact of on human health is a major global health concerns therefore, climate change adaptation is essential. The most significant hazards and their impacts are different between countries and regions, as are the possibilities and priorities for adaptation. To achieve wide generalisability the development work is being shared between partners in the UK, Ghana and Rwanda.

3.   Our project aim is to contribute to investigate climate change impact on health, based on existing science and knowledge, and provide official statistics which will help to design climate adaptation plans. Further way forward of this project includes development of the framework and aim to reach wider audiences through UN endorsement for the statistical framework (around 2025) and reaching out to NSOs across globe in order to use and application of framework and platform.

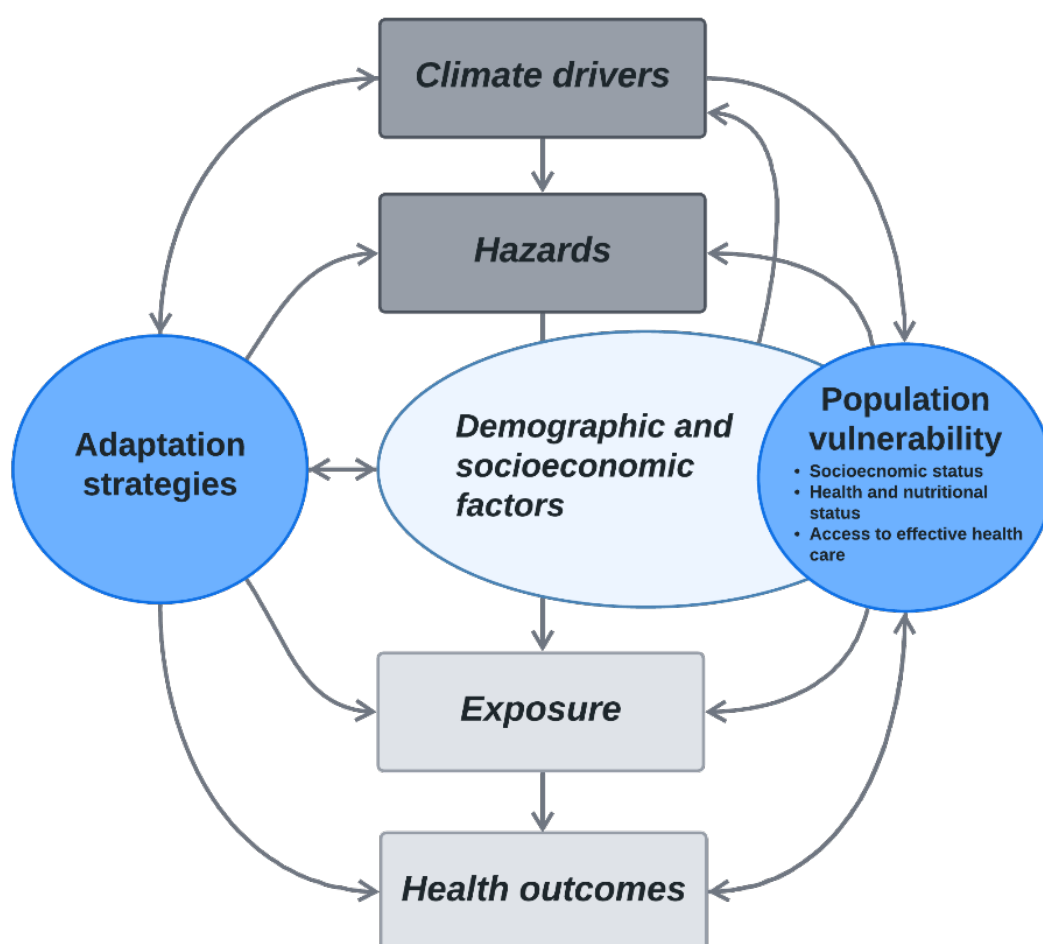4.   We acknowledge funding from the Wellcome Trust grant no. 224682/Z/21/Z.

Stakeholders

5.   Our Project is a collaboration with UK Health Security Agency, UNDP Ghana and University of Ghana, African Institute of Mathematical Sciences (Rwanda), University of Alberta, United Nations Global Platform. National Statistical offices and other government institutions globally are primarily users of the framework and platform.

Output example

The conceptual framework of climate change- health pathway
(Our project integrate these pathways through statistical framework development and estimating single estimates of climate change impact on health would be challenging).

More details

Data sources used	Office for National Statistics
Is it a regular or one time activity?	Project funded from 2022 to 2025
Coverage (national/subnational)	National and Subnational
Links where the results and more information about your work can be found	The knowledge sharing platform we are developing in collaboration with United Nation Global Platform which is under preparation therefore, all the information on the statistical framework and tools will be hosted under the same website link.