

Standards for Official Statistics on Climate-Health Interactions

Myer Glickman – Project Supervisor
Megan Green – Principal Statistician Office for National Statistics (ONS)



Motivation



Support global providers of climate change statistics

Enable comparable and reliable evidence of impact on health

Support global action and policy change against climate change

The project

- 4-year project led by the UK Office for National Statistics and supported by the Wellcome Trust
- Primary aim is to define a statistical framework and unified methods for official reporting of climate change impacts on health, at national and local levels
- Will provide tools to operationalize a set of defined indicators consistently and help build expert capacity in NSOs focused on climate and health where there is currently a lack of support.



Project workstreams

1. Statistical framework

METRICS: Develop a transparent and globally generalisable framework for official statistics on climate change and health containing a series of applicable metrics

2. Online knowledge sharing platform

DATA: Develop 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

3. Statistical methods

METHODS: Explore statistical methods to provide estimates of climate-related health risk using real world data sources, including novel and big data, and modelling local impacts



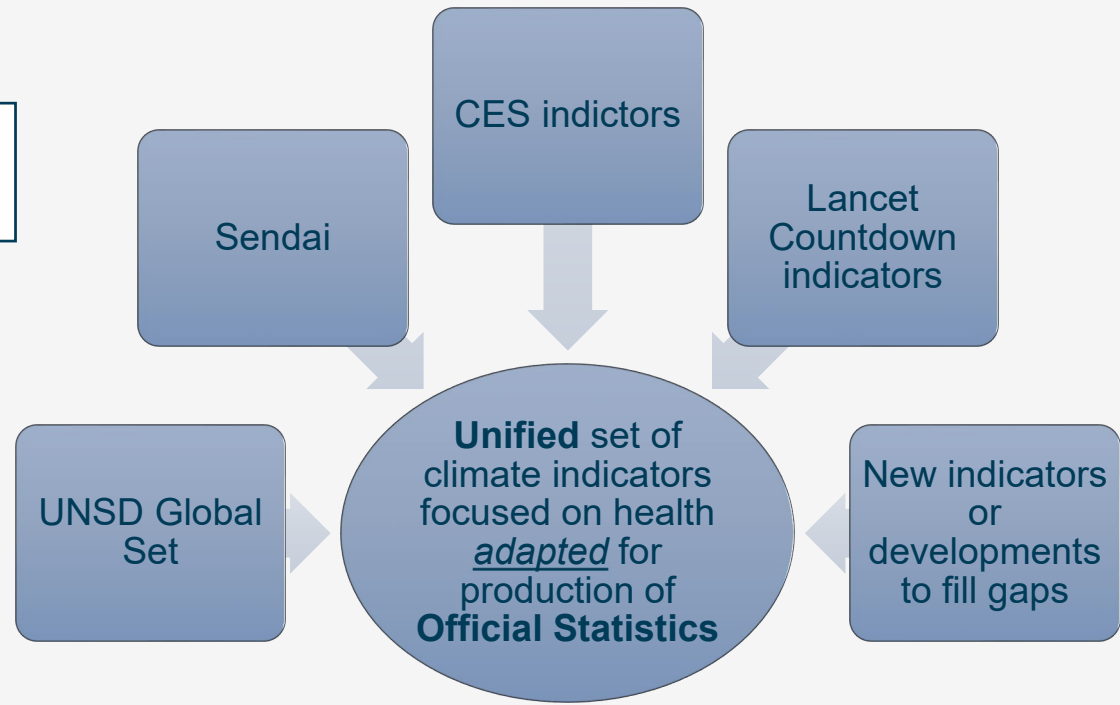
1. Statistical Framework

1. Statistical framework
Defined metrics through a set of relevant indicators

Guidance on appropriate reporting	Indicator name			ID
	Area	Sub area (topic)	Publication date	Last updated
Clear relevance attributing climate change to health impact	Definition			
	Tier			
	Unit of measure	Aggregation	Update frequency	
Link to relevant data sources	Link to other indicators			
	Relevance & rationale			
	Methodology			
	Limitations			
	Data Source			

Unified definition

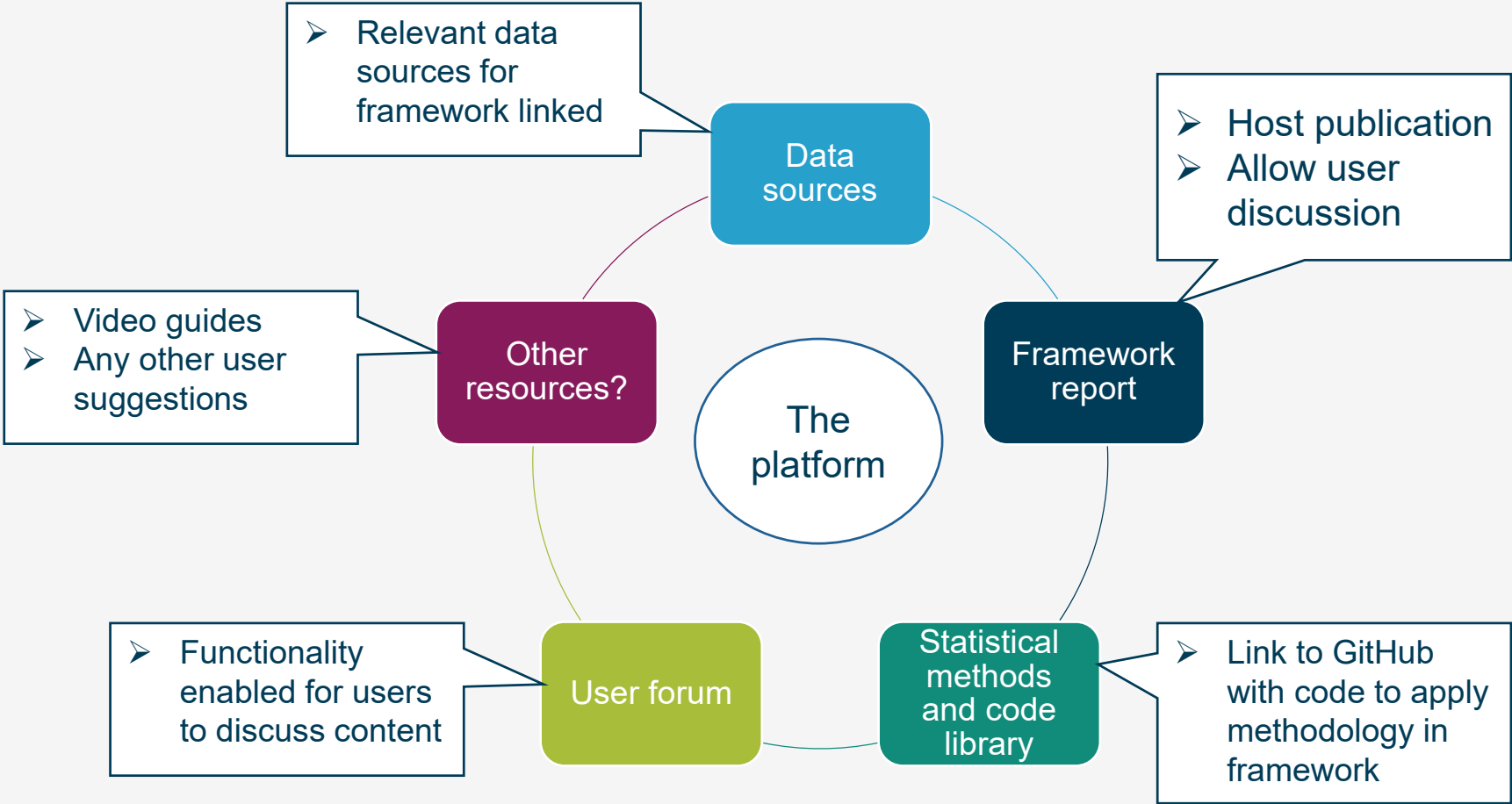
Adoptable statistical methodology and limitations



Example indicator: Number of deaths, missing persons and directly affected persons attributed to disasters per 100,000 population

2. Knowledge sharing platform

2. Online knowledge sharing platform
Enables access and sharing of the framework and data sources



3. Statistical methodology



Example methodology: The statistical method applied to data to estimate the number of deaths, missing persons and directly affected persons attributed to disasters per 100,000 population, at local and national levels.

Indicator name		ID	
Area	Sub area (topic)	Publication date	Last updated
Definition			
Tier	Unit of measure	Aggregation	Update frequency
Link to other indicators			
Relevance & rationale			
Methodology			
Limitations			
Data Sources			

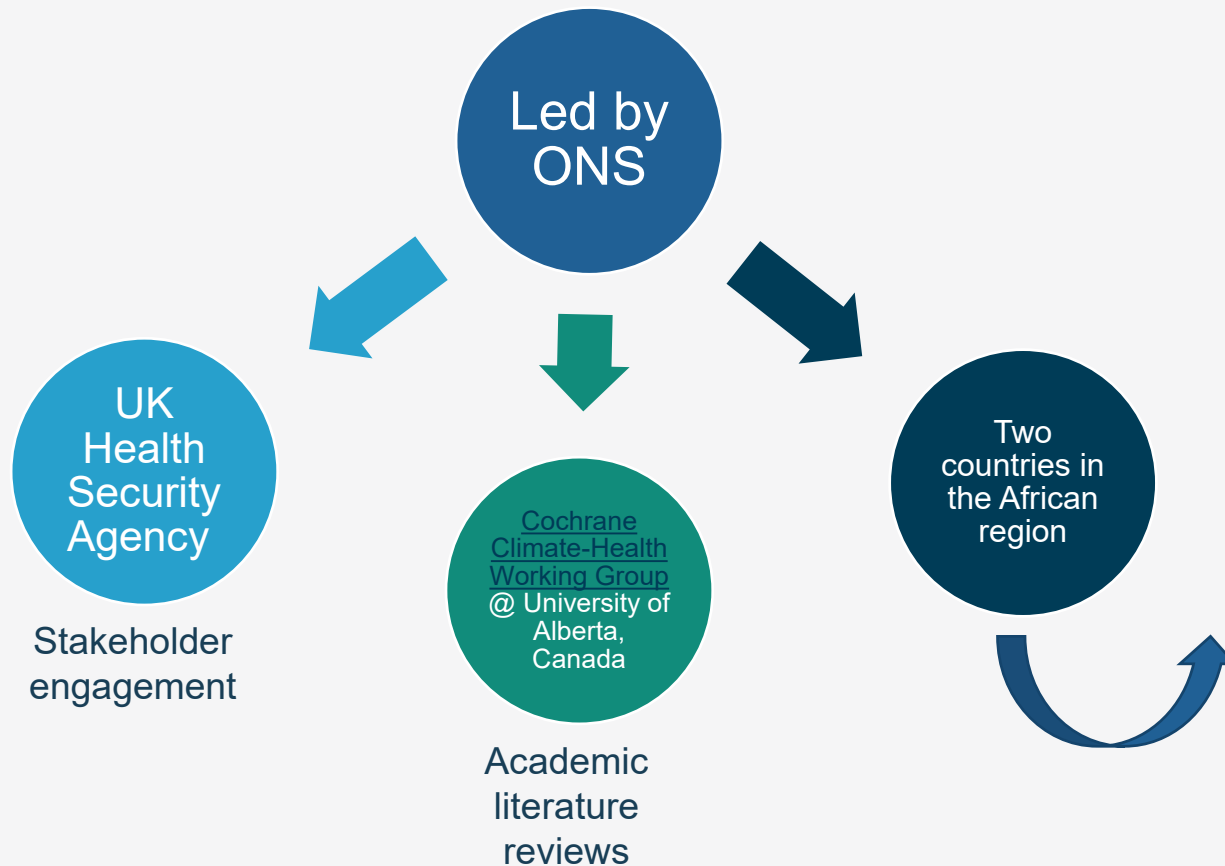


3. Statistical methods

Developed methods to **measure** climate change and health

- Statistical software?
- Statistical complexity?
- Geographic level?
- Socio-demographic Aggregations?

Project Partners



Details of partnership

Discovery phase ~ 2022 (started)

- Jointly finalise scope for statistical framework metrics
- Begin to identify and acquire countries climate and health data

Alpha Phase (year 1) ~ 2023

- Jointly develop framework metrics and experimental models, adapting metrics from existing frameworks or developing new models where there are gap
- Assist with feedback from NSO's

Beta Phase (year 2) ~ 2024

- Refine framework and metrics, finalising any additional data and model development
- Launch pilot studies in partner countries to test current Beta draft

Publication (year 3) ~ 2025

- Support public consultations for final revisions
- Help communicate the launch of the framework on the UN global platform