



Hashim Hounkpatin

Cerrhud Research Center

How are health systems in sub-Saharan Africa adapting to protect human health from climate change threats ?



How is CC threatening health in SSA?



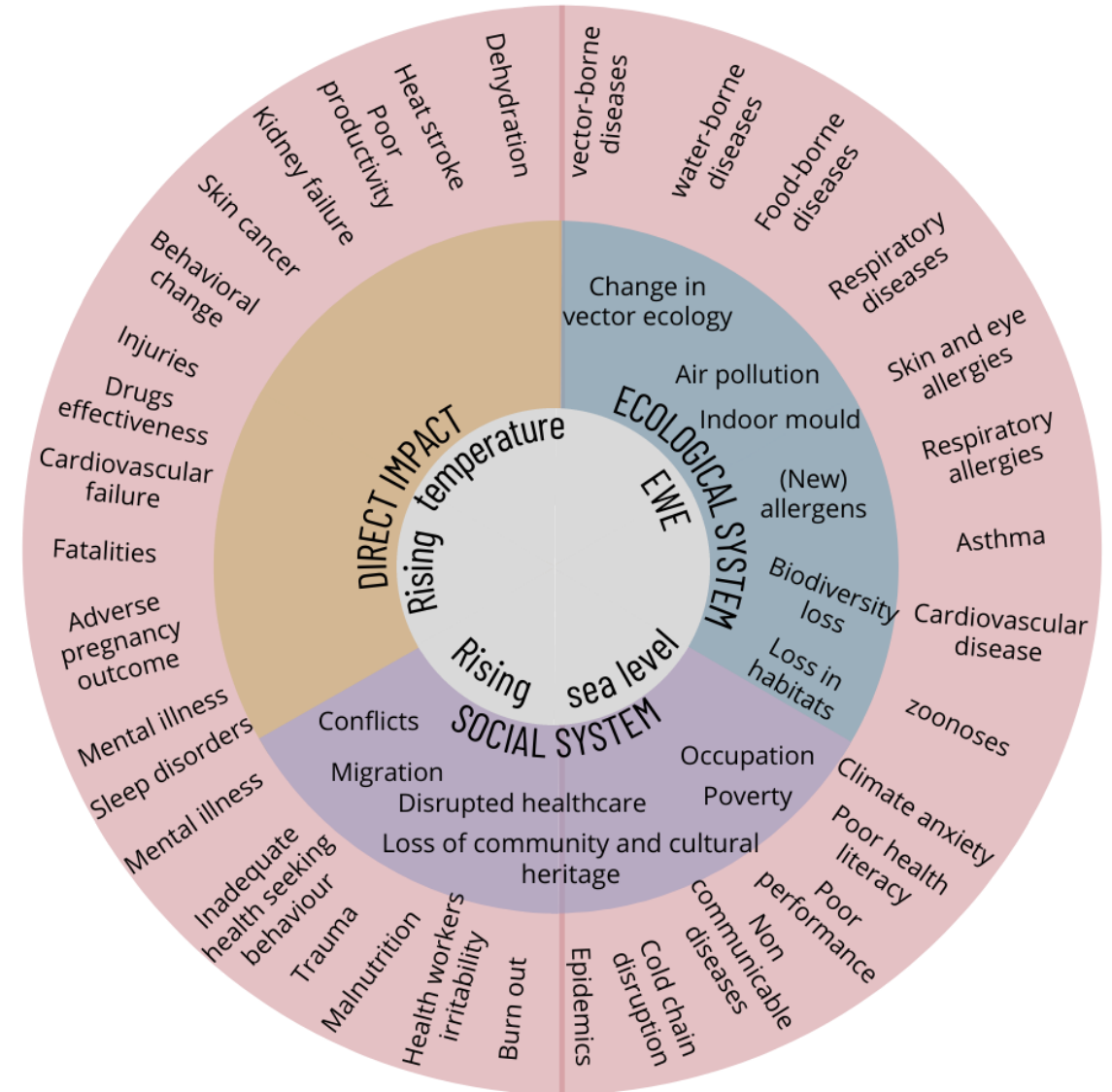
> Global average



Food insecurity, displacement, migration

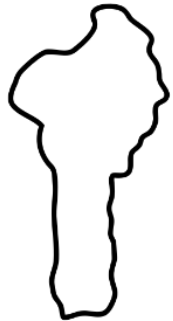


2 weeks



Health Impacts of climate change, EWE = Extreme Weather Events

How are SSA countries adapting?



Top quartile
Flooding in 2010
National Adaptation Plan (NAP), 2022
8 sectors



Impact studies



Adaptation?

Objectives



Contribute to the understanding of **how** health systems in SSA are adapting to protect human health from climate change threats



Review literature on **adaptation measures in SSA**



Analyse the **Benin adaptation policymaking** process



Formulate **recommendations**

Methods

Study design

Scoping review

Objectives

Adaptation measures

Output

Overview of adaptation measures in SSA

Case study

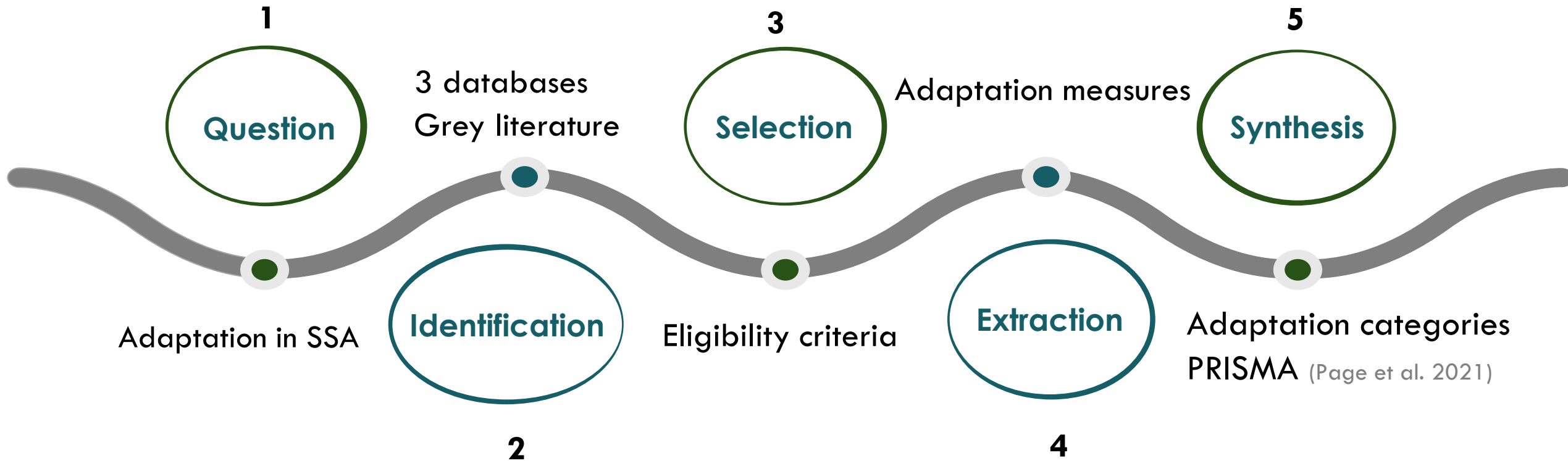
Policy formulation

Adaptation policymaking process in Benin

Agenda setting

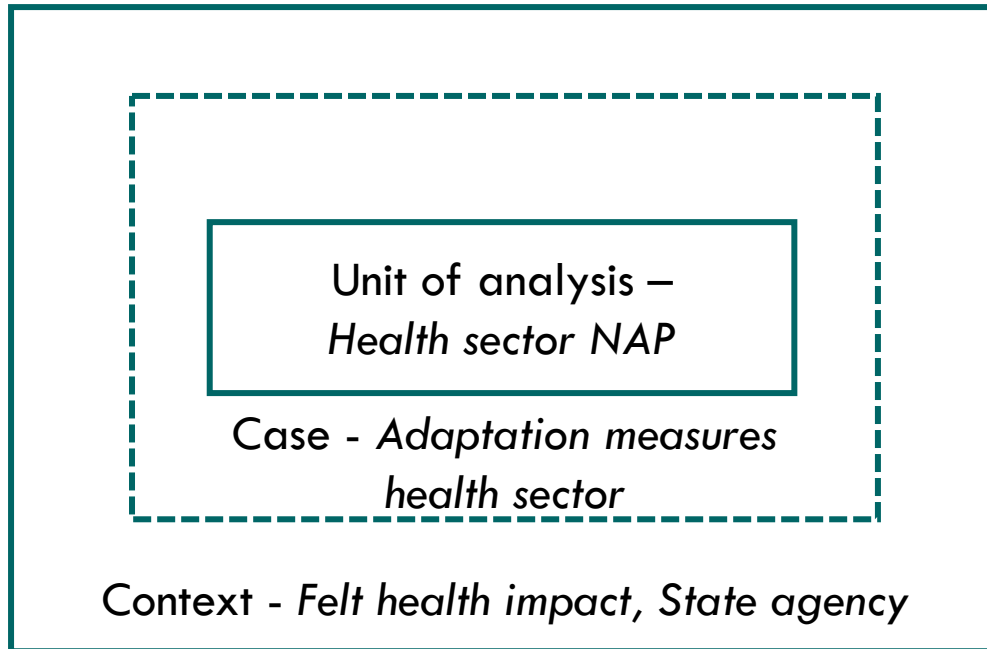
Methods

Scoping review (Arksey & O'Malley 2007, Levac et al. 2010)



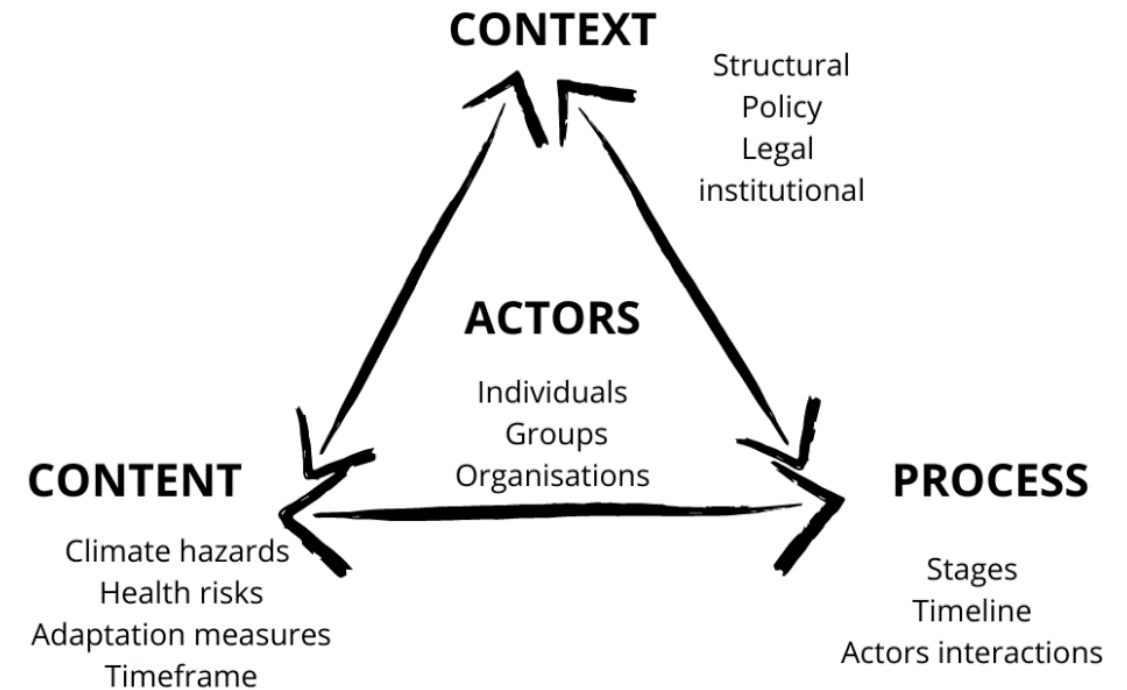
Methods

The Benin case study



Single case study design adapted from Yin, 2017

Data Source: NAP, reports, institutional websites



The health policy triangle adapted from Walt & Gilson, 1994

How is SSA adapting?

14 studies

Out of 178 screened

> 2020

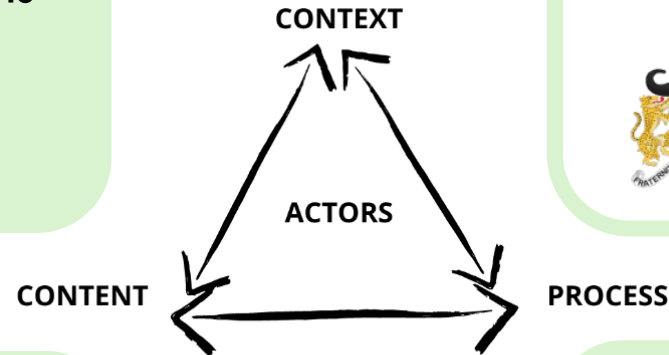
Europe &
South Africa

- ① Health Systems Strengthening HSS
- ② Policy & Planning
- ③ Financing & Implementation
- ④ Information & Capacity Building
- ⑤ Citizens' & Migrants' Resilience
- ⑥ Disaster Prevention, Preparedness, Response & Recovery
- ⑦ Mitigation (health co-benefits)



Adaptation policymaking in Benin

Coastal country West Africa
International climate conventions
National policy instruments

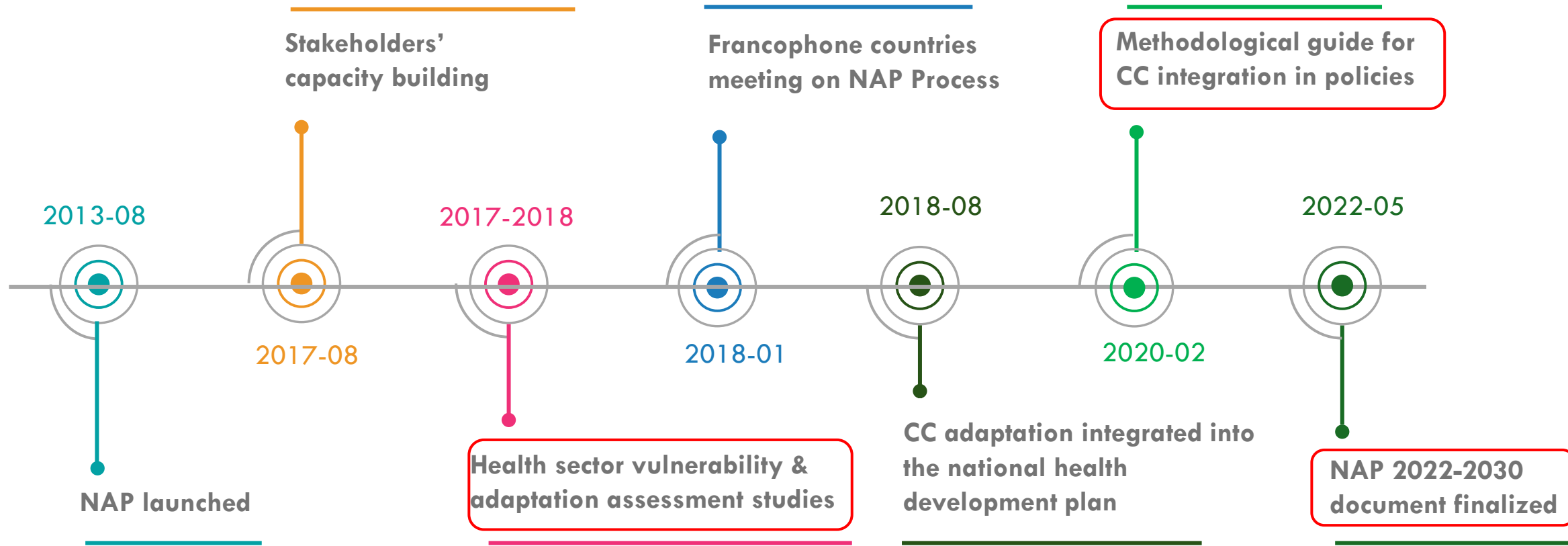


Heatwaves, flooding, drought
Physical, less mental/social
Adaptation categories: overlap SSA



Timeline of key events

The NAP Process



Adaptation measures in SSA



HSS

Weak health systems
WHO Framework for building
climate resilient health systems
adoption (WHO 2015)



Financing

Main barrier (Nhamo et al 2019)
International funding (Lokotola 2023)
Cancellation of historical debt
Reform international trade (Phillips 2022)



Policy &
Planning

Climate & health mainstreaming (Nhamo
et al 2019)
Policy mimicry across SSA (WHO 2021)
Regional & subnational levels
overlooked (Desai et al 2021)



Information

Alarming data paucity (Watts et al 2019)
EWS Nigeria & Lesotho (Nhamo et al 2019)
Capacity building (Scheeleek et al 2021)

Adaptation measures in SSA



Citizens &
Migrant'
Resilience

Heat management, vector breeding sites
Rwanda, Malawi (Nhamo et al 2019)
Social protection
Lake Chad, Migration
Zimbabweans in Botswana/SA (Opoku et al 2021)



Disaster
management

Climate-proof infrastructures
Sierra Leone: cool roofs, floodproof (Nhamo
et al 2019)
Humanitarian Aid & Recovery
Mozambique (Phillips 2022)



Mitigation
health co-
benefits

Dirty energy (Romanello 2022)
Indoor pollution &
premature death
Fossil fuel phase-out?

An aerial photograph showing a vast, flat landscape under a cloudy sky. In the foreground and middle ground, a dense cluster of small, simple houses with various colored roofs (red, blue, grey) is surrounded by deep, dark water. The water appears to be a result of flooding, with some houses partially submerged. The background shows a more open, grassy area with some distant structures and a hazy horizon.

The climate crisis is a health crisis

Health systems need to **stretch their sphere of influence** to health-determining sectors