



**Conferência sobre o
Impacto das Mudanças
Climáticas na Saúde**

Addressing the climate and health crisis: global experiences in fostering multidisciplinary

Kristie L. Ebi, Ph.D., MPH

Center for Health and the Global Environment

University of Washington

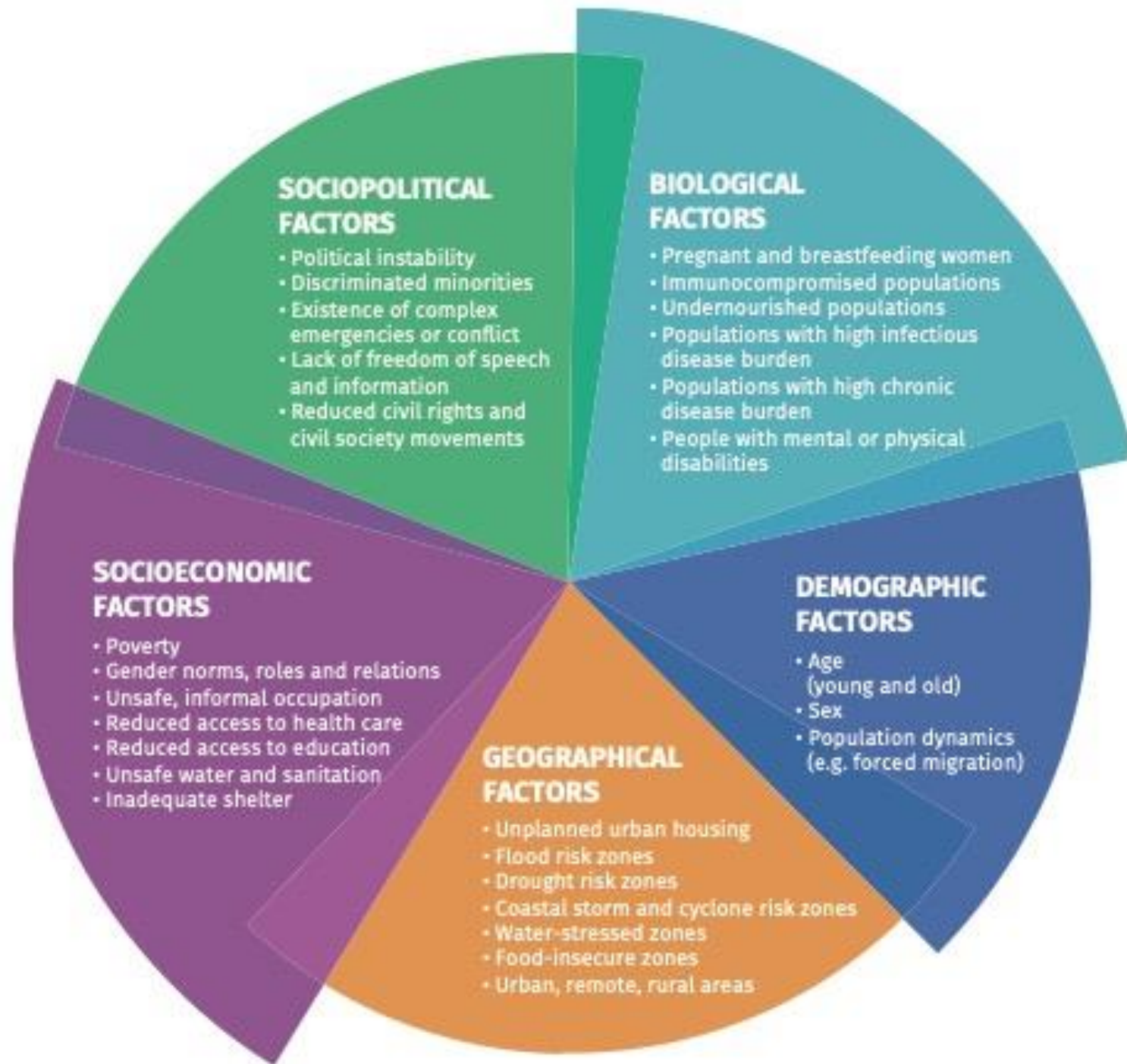


Rapid integration of health into the climate change agenda

- **Health Day at COP 28 on 3 December**
- **Green Climate Fund (GCF) has Health and Well-being Sector Guidance**
 - Lao PDR received first climate and health project
 - Health considered a benefit in multiple projects
- **WHO becoming accredited for the Adaptation Fund**
 - Collaborating with UNDP on proposals to the GCF and Least Developed Country Fund
- **World Bank conducting vulnerability and adaptation assessments**
- **Increased interest by development partners**

Building the evidence base: funding increasing

- **DS-I Africa project on developing a heatwave early warning and response system in South Africa and Cote d'Ivoire**
- **Wellcome beginning to invest in research on climate change and health in Africa**
 - **Building multidisciplinary teams**
 - **Calls on heat and modeling so far**



CLIMATE CHANGE AND HEALTH VULNERABILITY AND ADAPTATION ASSESSMENT

PLAN THE ASSESSMENT

- 1** Establish a project team and management plan

Identify the questions to be addressed and the policy context

Define the health risks, outcomes, geographical region and time period to be included

Establish a stakeholder process

Identify information and data to inform the assessment

Develop a communication plan

ASSESSMENT PROCESS

- 2** **Vulnerability assessment**
Describe the current burden of climate-sensitive health outcomes and vulnerabilities to climate variability and recent climate change
- 3** **Capacity assessment**
Assess the capacities of health and health-relevant systems
- 4** **Future risk assessment**
Qualitatively and/or quantitatively project the health risks of climate change
- 5** **Adaptation assessment**
Identify and prioritize policies, programmes and actions to address current and projected health risks

SYNTHESIS

- 6** Synthesize the assessment as input into a health adaptation plan (and other relevant climate change and health policies, plans, and reporting mechanisms)

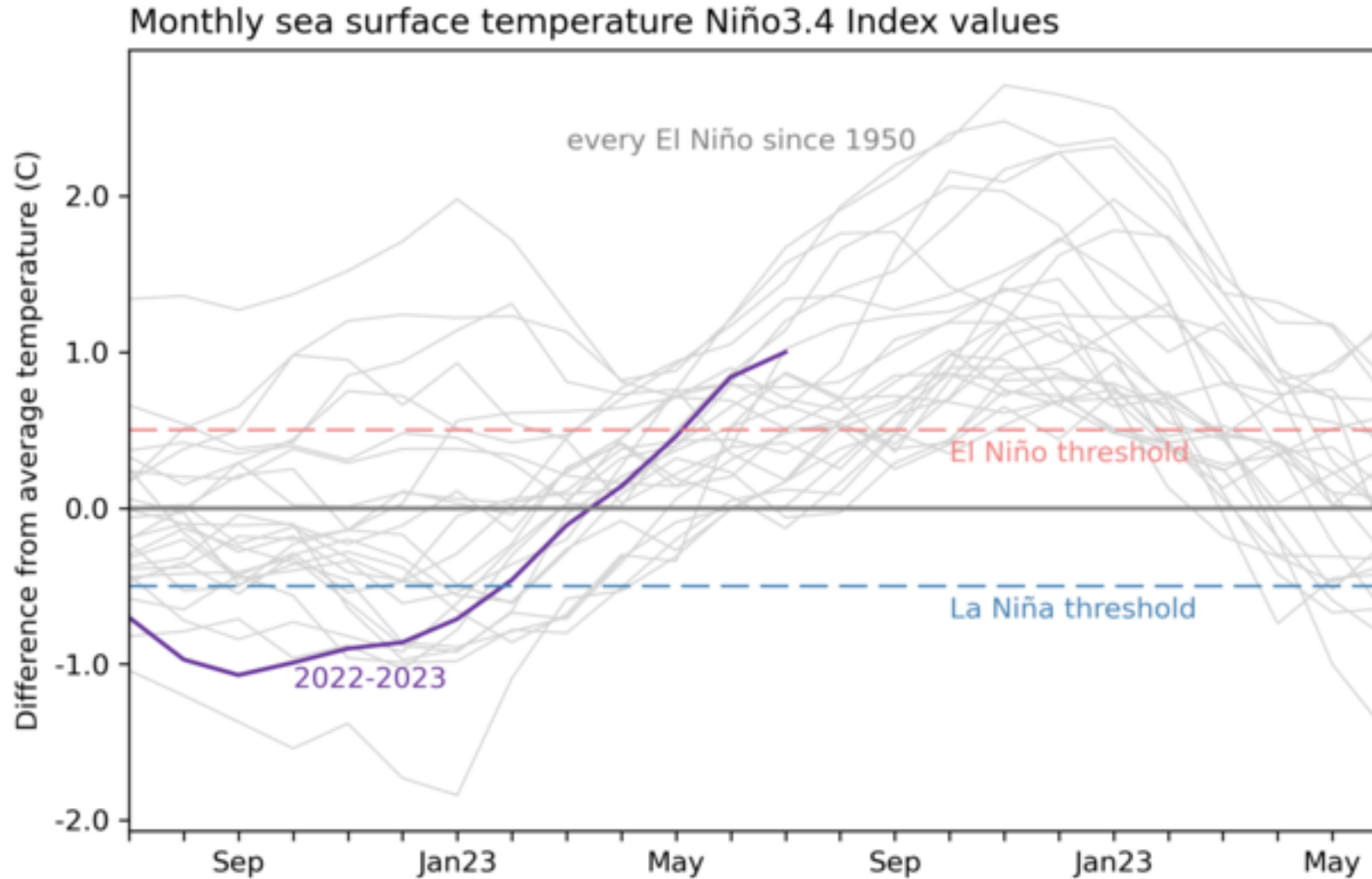
Iterative process for managing and monitoring the health risks of climate change

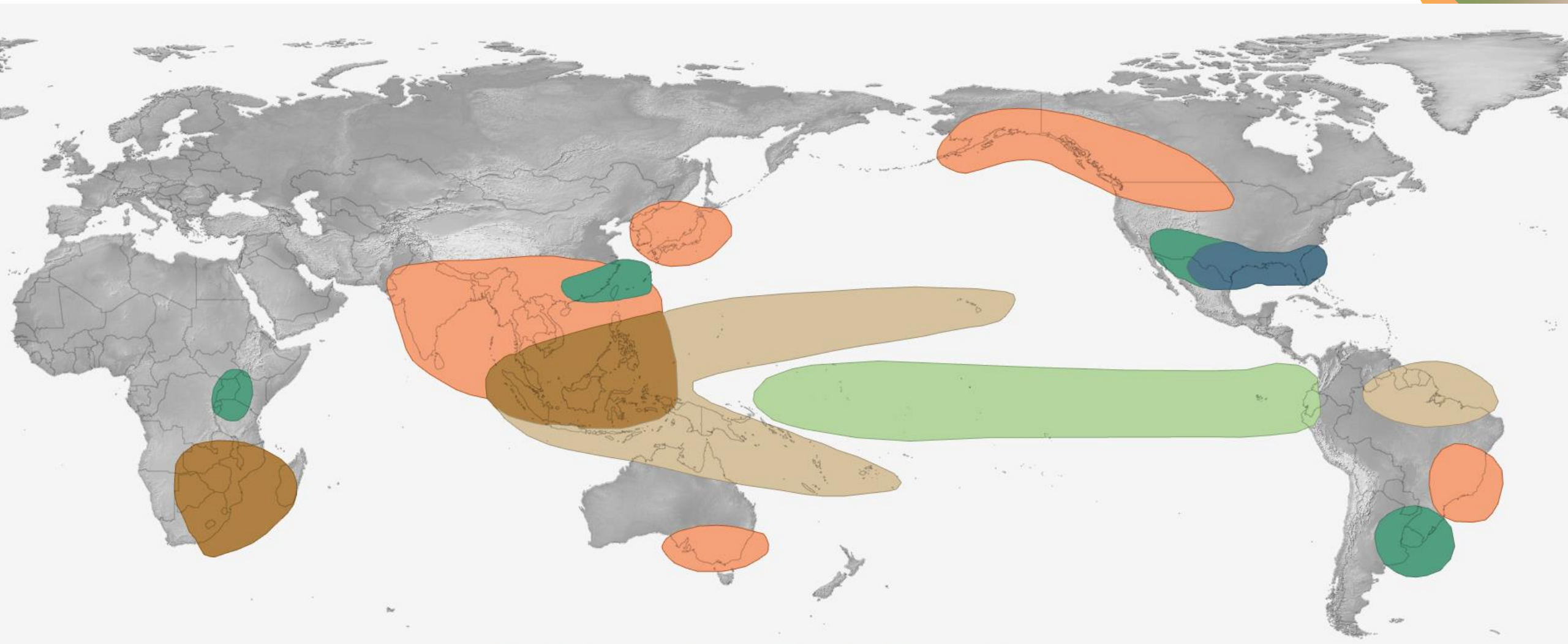


Research agenda on climate change and health

- **Quantify the magnitude and burden of climate-sensitive health outcomes**
- **Estimate the extent to which climate change is already causing illness, injuries, and deaths**
- **Project the magnitude and pattern of health risks under a range of climate and development scenarios**
- **Develop, deploy, monitor, and evaluate the effectiveness of policies and measures to increase resilience of health systems and healthcare facilities**
- **Estimate the costs to individuals and health systems of the health risks of climate variability and change**
- **Estimate the health co-benefits of mitigation policies and technologies**

Important development for 2023: El Niño



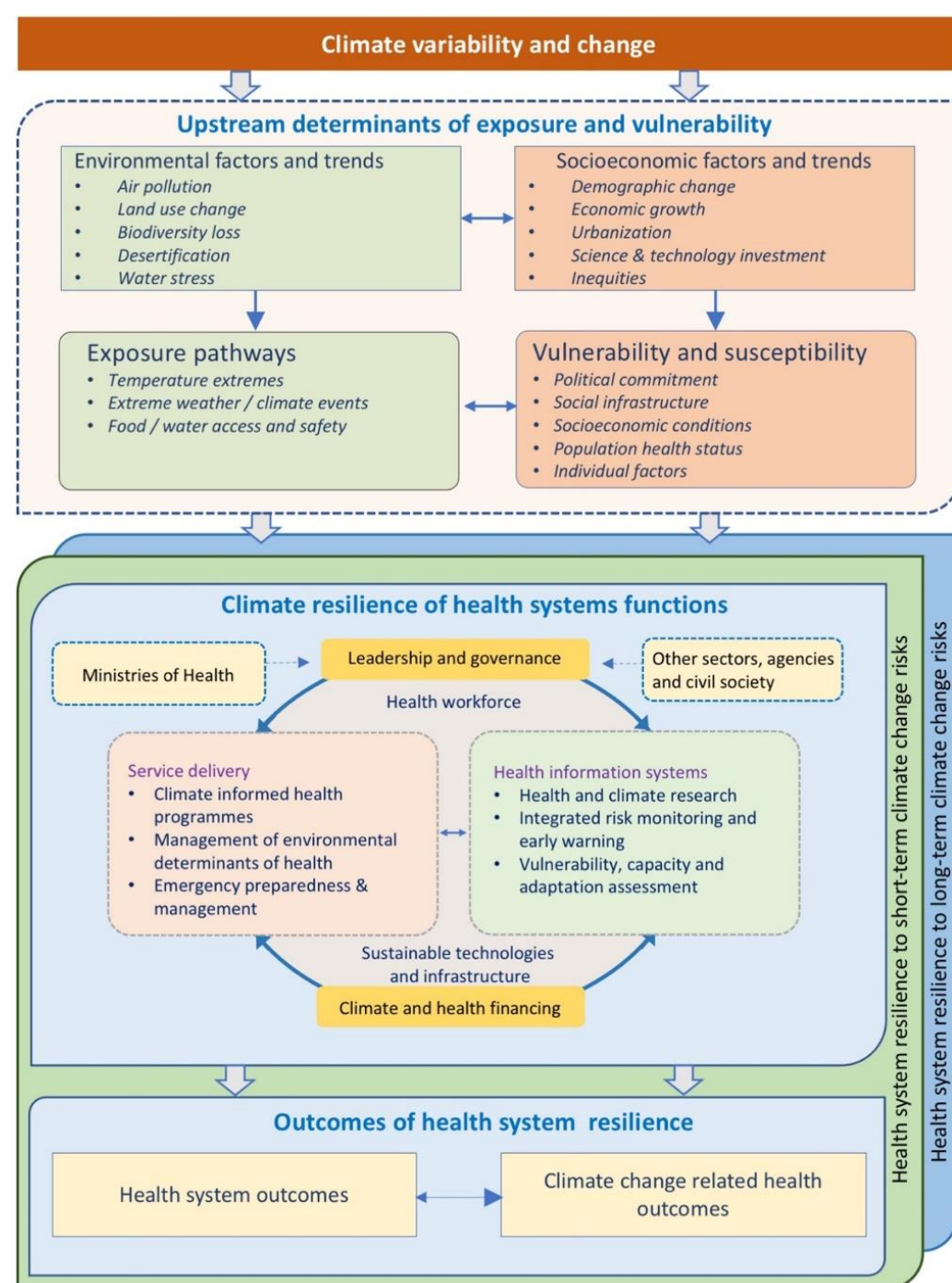


El Niño patterns, December-February

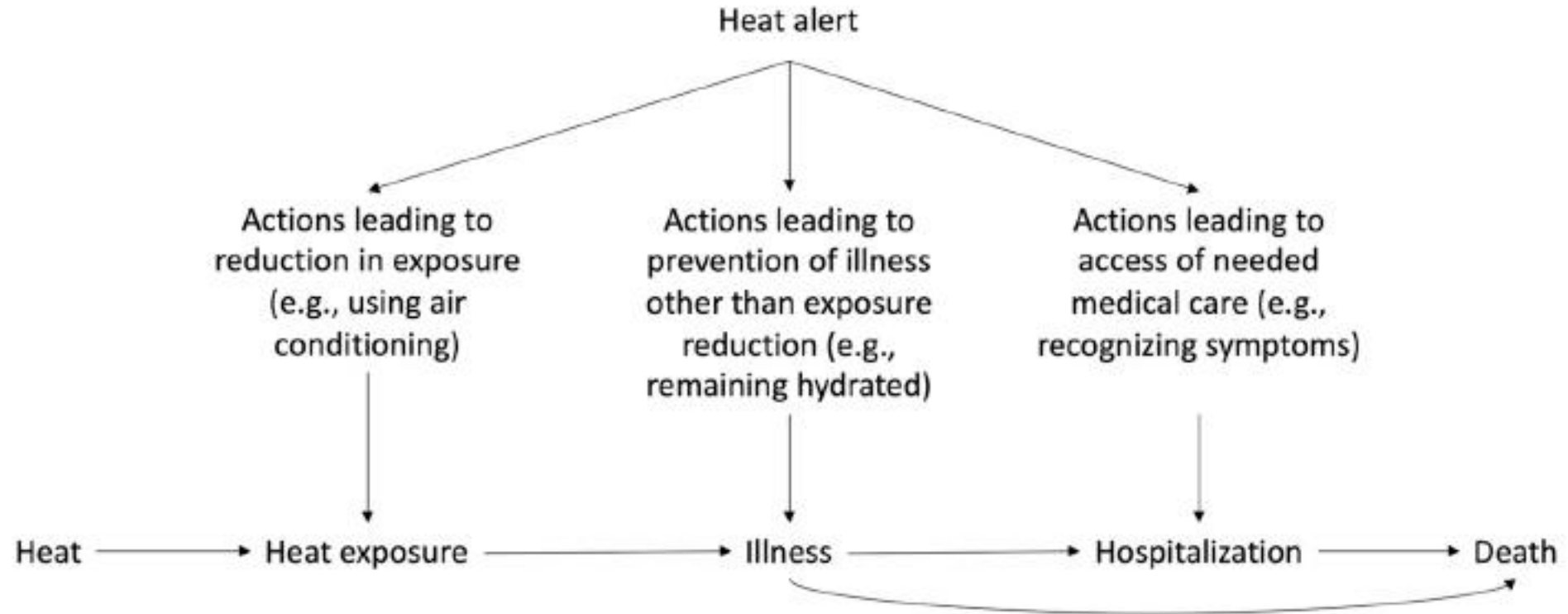
■ Cool
 ■ Wet
 ■ Cool and dry
 ■ Cool and Wet
 ■ Warm
 ■ Dry
 ■ Warm and dry
 ■ Warm and wet

WHO framework for promoting climate-resilient health systems

- Recognize upstream determinants
- Systems-based approach to promoting climate-resilient health systems
- Health system and climate change health outcomes



Potential benefits of heatwave early warning alerts



Heat is an all-of-society problem



PEOPLE

Heat exacerbates risks of:

Social inequity,
Illness and death

Requiring action from:

Public health;
labour; social
sectors; physiology;
medicine; sports;
etc.



ENVIRONMENT

Heat exacerbates risks of:

Fires; poor air quality;
water scarcity and
drought; cyclones;
UV radiation

Requiring action from:

Environment;
meteorology;
climatology; etc.



INFRASTRUCTURE

Heat exacerbates risks of:

Urban heat islands;
emergency and power
service disruptions;
poor quality housing

Requiring action from:

Architecture,
engineering,
urban planning; etc.



**Conferência sobre o
Impacto das Mudanças
Climáticas na Saúde**

Thank you

krisebi@uw.edu