# RESPUESTA EN CLIMA Y AMBIENTE PARA LA SALUD EN LAS AMÉRICAS

## Gestión del trabajo en equipos transdisciplinarios

## Estudio de caso

18 de octubre, 2022

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COLUMBIA
MAILMAN SCHOOL OF PUBLIC HEALTH
GLOBAL CONSORTIUM ON CLIMATE AND HEALTH EDUCATION

30 years IAI INTER-AMERICAN INSTITUTE FOR GLOBAL CHANGE RESEARCH

PAHO
Pan American Health Organization
World Health Organization Americas

# 43 Lancet Countdown Partners around the world































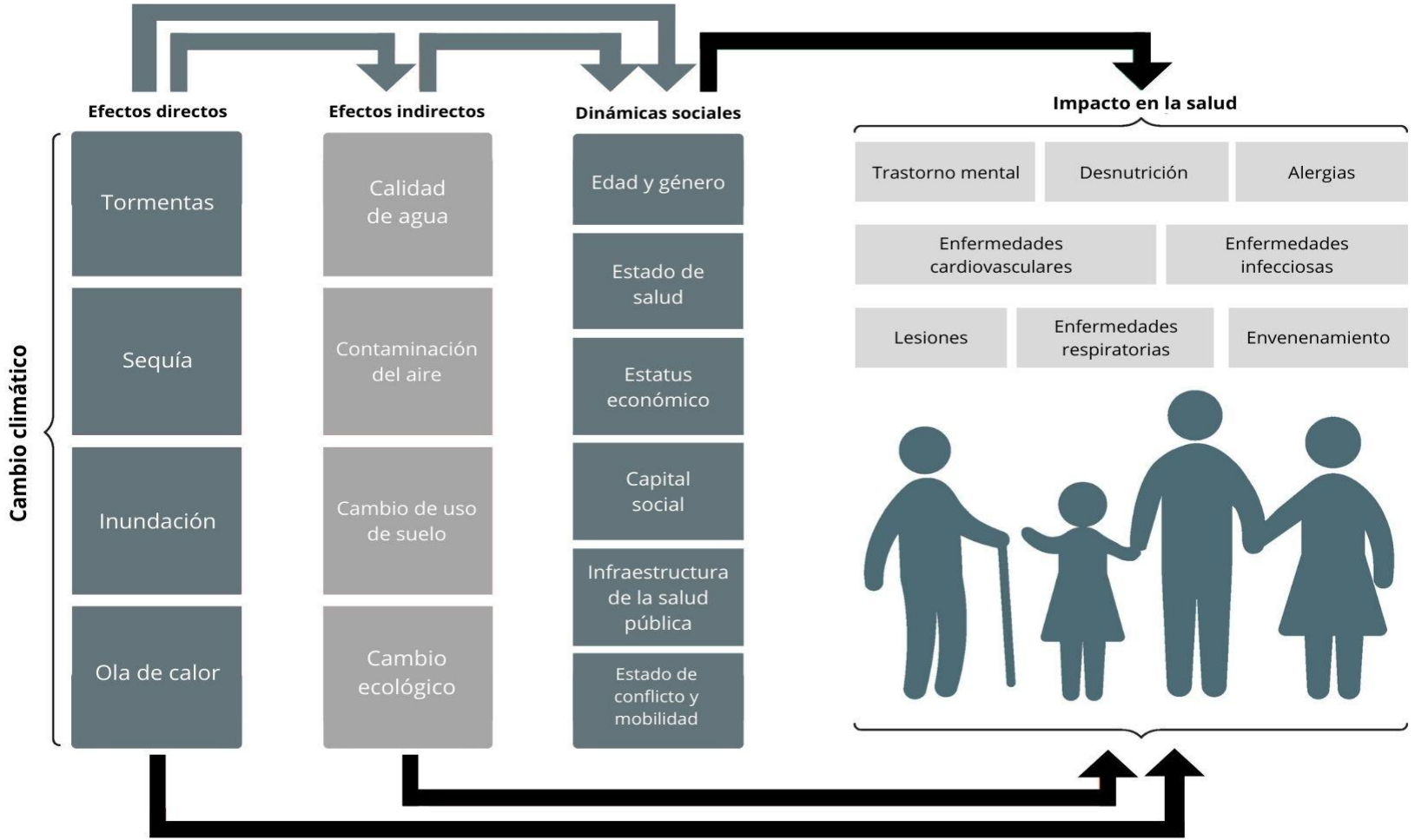






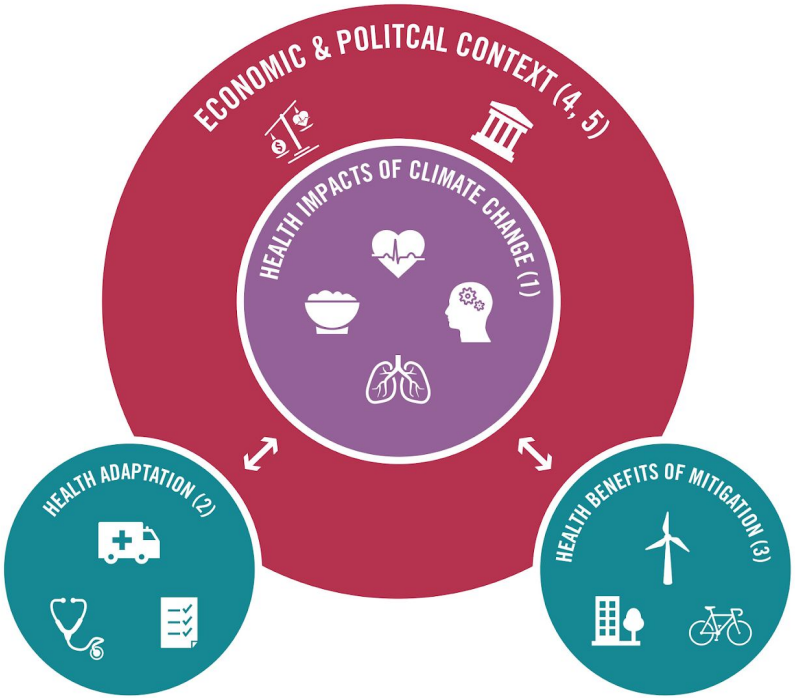


# Lancet Countdown Health & Climate Change




Fuente: Watts, N.et al. (2015). *Health and climate change: policy responses to protect public health. The Lancet, 386(10006), 1861–1914.* doi:10.1016/s0140-6736(15)60854-6 (traducido al español)

# 5 working groups of the Lancet Countdown Global and SA




- Climate Change Impacts, Exposures & Vulnerability
- Adaptation Planning & Resilience for Health
- Mitigation Actions & Health Co-Benefits
- Economics and Finance
- Public and Political Engagement

# Votación en Zoom

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IAI

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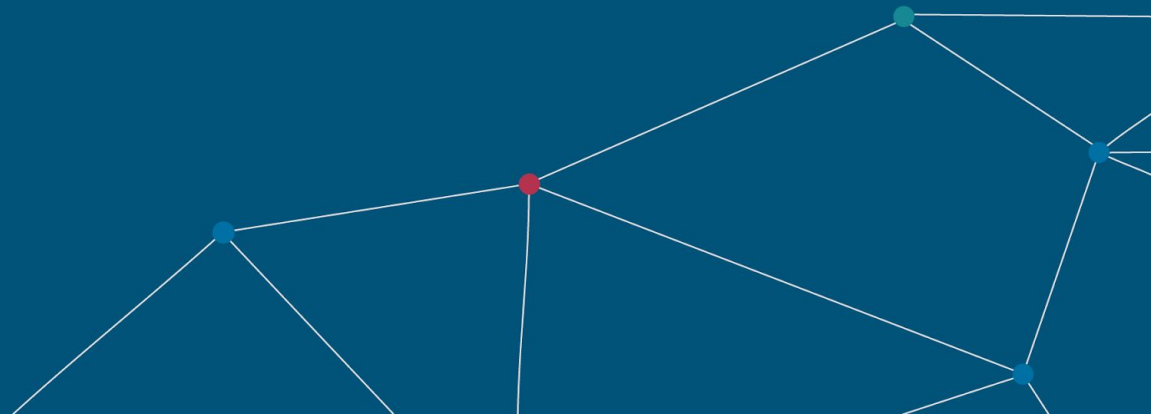
UNIVERSIDAD PERUANA
CAYETANO HEREDIA

Clima

# *Lancet Countdown South America: Health and Climate Change*



LANCET COUNTDOWN:
HEALTH AND
CLIMATE CHANGE
IN SOUTH AMERICA

## Lancet Countdown - South America

We are one of the regional centers for the Lancet Global Countdown on Climate Change and Health. We have a mandate to promote and develop research at the regional level on the impact of climate change on health.

# Objectives

**Build Capacities**

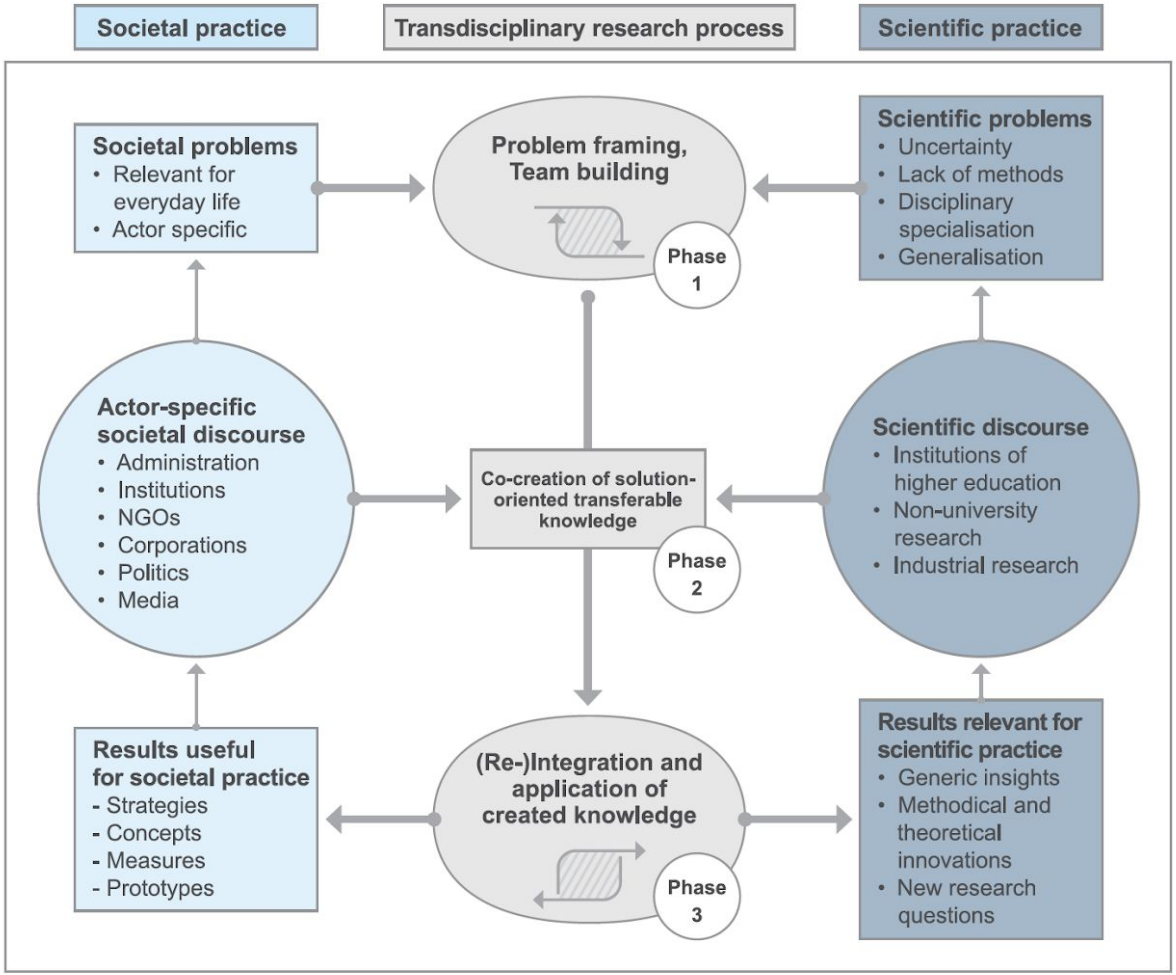
1. Coordinate collaboration with academic and research institutions within South America

**Promote Research**

2. Develop case studies (local or regional)
3. Develop indicators to be published in the global Lancet Countdown report
4. Develop a SA regional report that mirrors the Lancet Countdown Annual Report

**Promote Communication**

5. Expand country-level communications and policy engagement




Climate Change has a differentiated impact on health in South American populations.

# Why is SA different?

# 1. Build on capacities

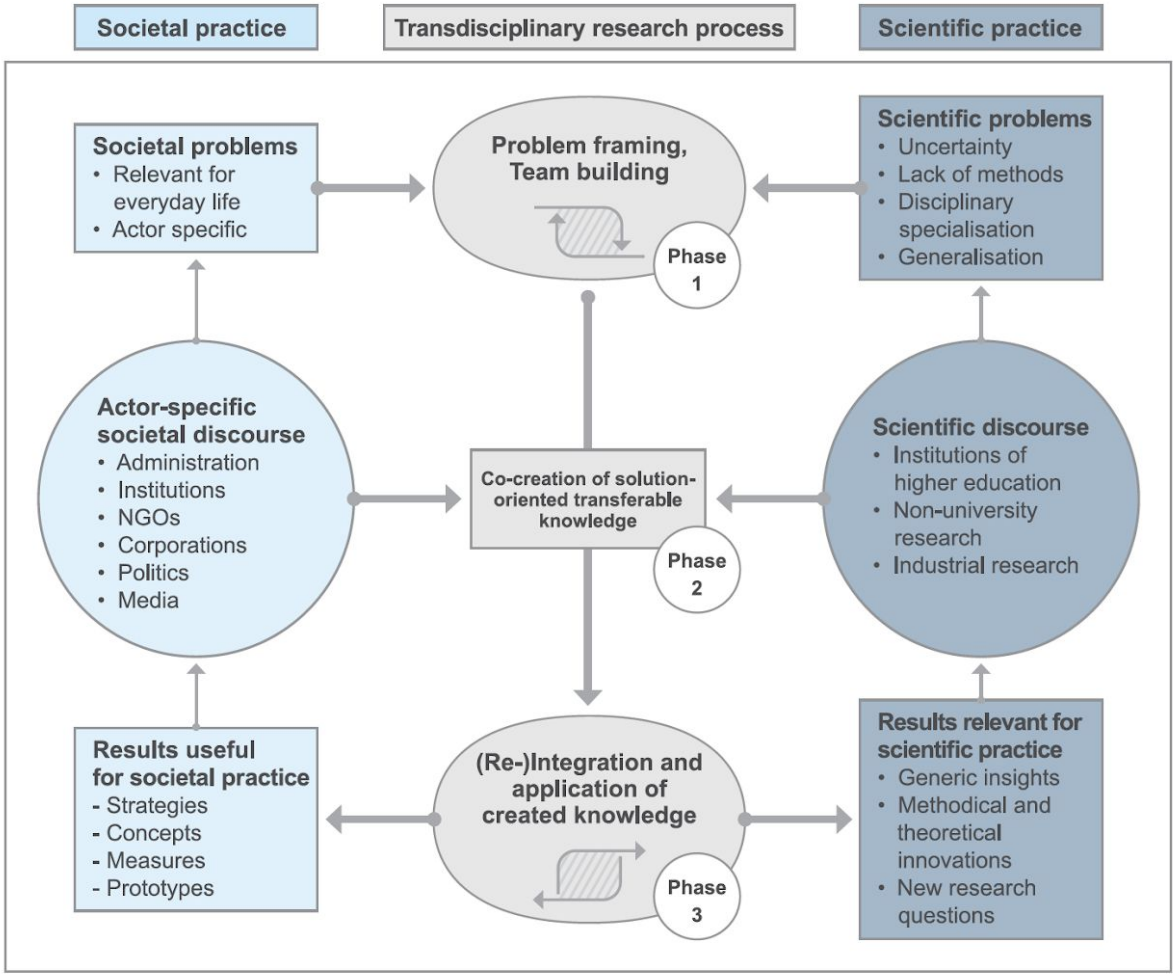
Peru: Universidad Peruana Cayetano Heredia
Costa Rica: Universidad de Costa Rica
Chile: Pontificia Universidad Catolica de Chile
Ecuador: San Francisco de Quito
Argentina: Universidad de Rosario
Colombia: Unviersidad de los Andes
Brasil: Universidad de Caxias do Sul
Uruguay: Inter-american Institute for Global Change Research

# Partners LCSA

Stella Hartinger | Willy Lescano | Marisol Yglesias | Armando Valdes | Luciana Blanco | Oscar Melo | Valerie PazSoldán | David Rojas | Yasna Palmeiro | Bruno Takahashi

Yamileth Astorga | Rodrigo Velarde | Zaray Miranda | Juliana Helo | Elaine Flores | Enrique Falceto de Barros | Carolina Gil | Anna Stewart | Milena Sergeeva | Ariana Varcarcel

Raquel Santiago | Mario Chavez | Tatiana de Camargo | Wendel Mora | Romina Lavarello | Daniel Fernández | Luciana Rojas | Angelica Pretell | Ivonne Reyes | Katya Canal



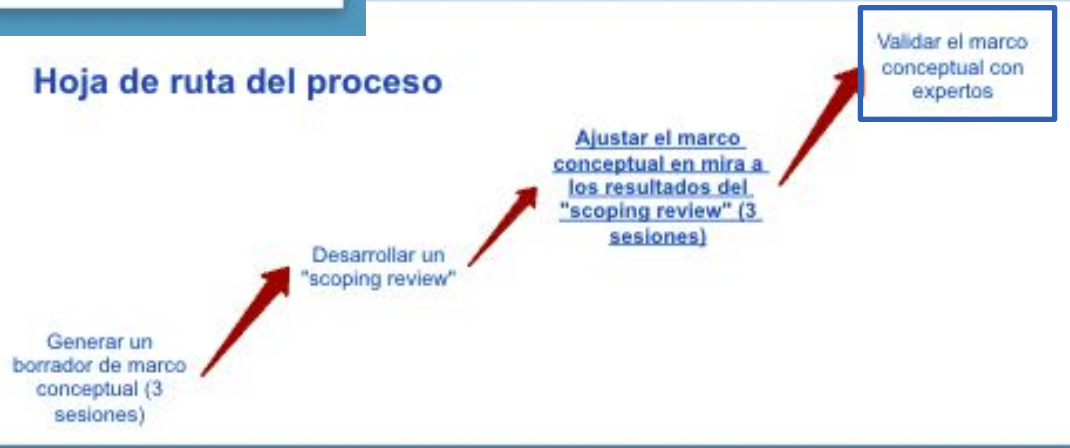

Co-design,
Co-implementation,
CO-learning

# Workshop for the SA Conceptual Model

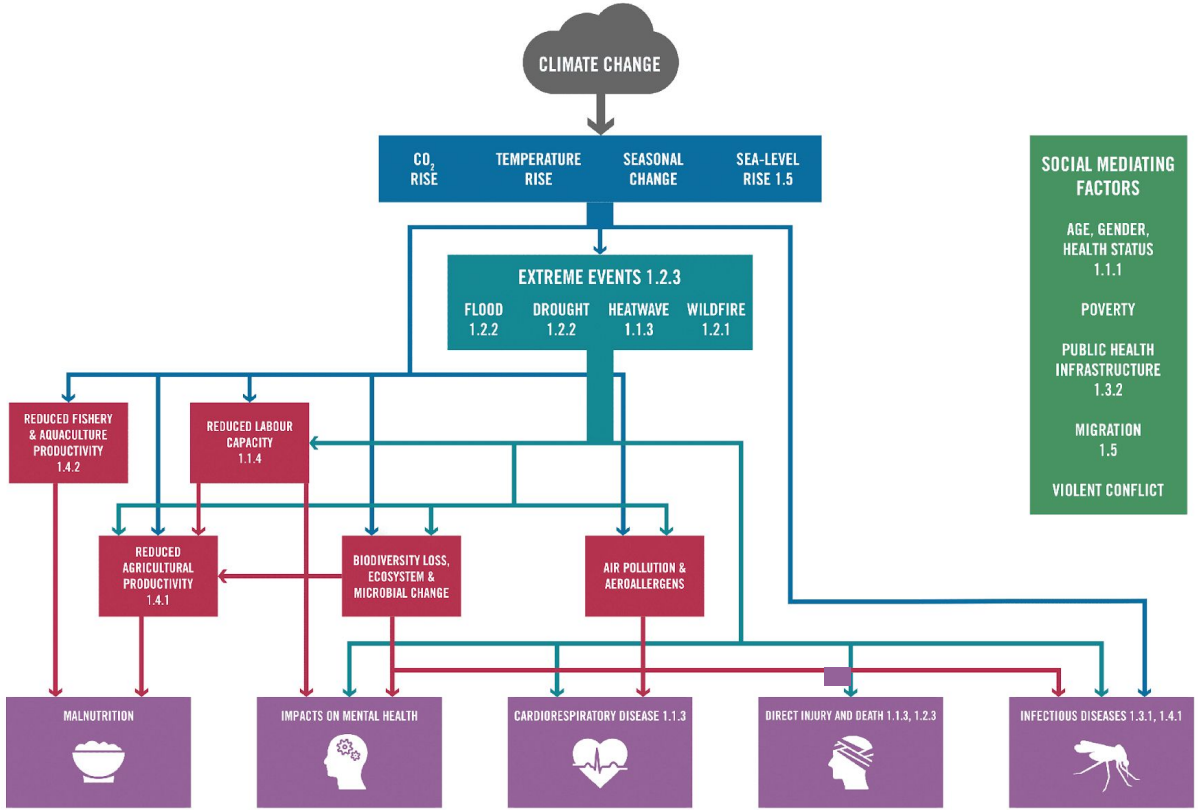
## Objetivo del proceso

1. Generar un marco conceptual de cómo el Cambio Climático afecta la Salud Humana en Sudamérica.
2. Este marco conceptual guiará el trabajo y las publicaciones (actual y futuras) de LCSA

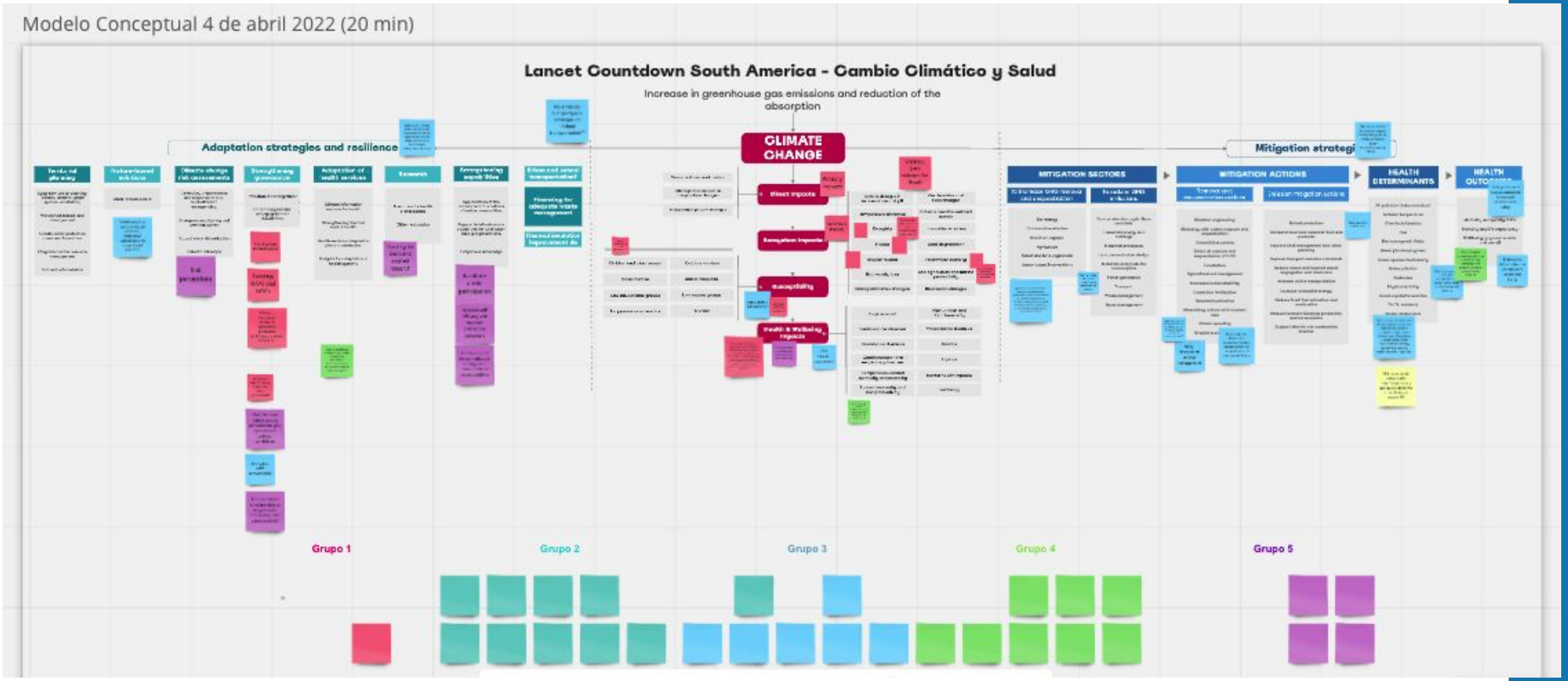
## Hoja de ruta del proceso

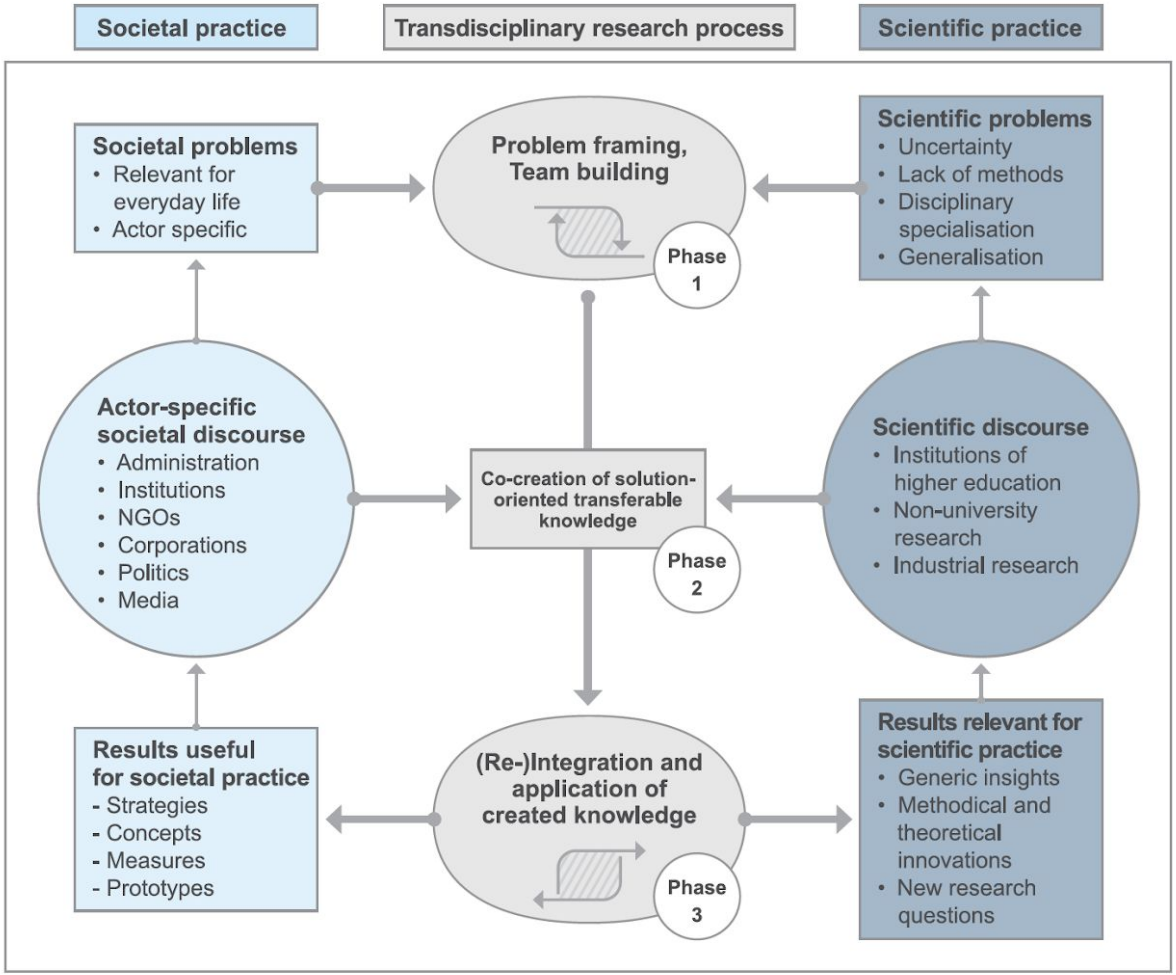


# Climate Change Impacts, Exposures & Vulnerability



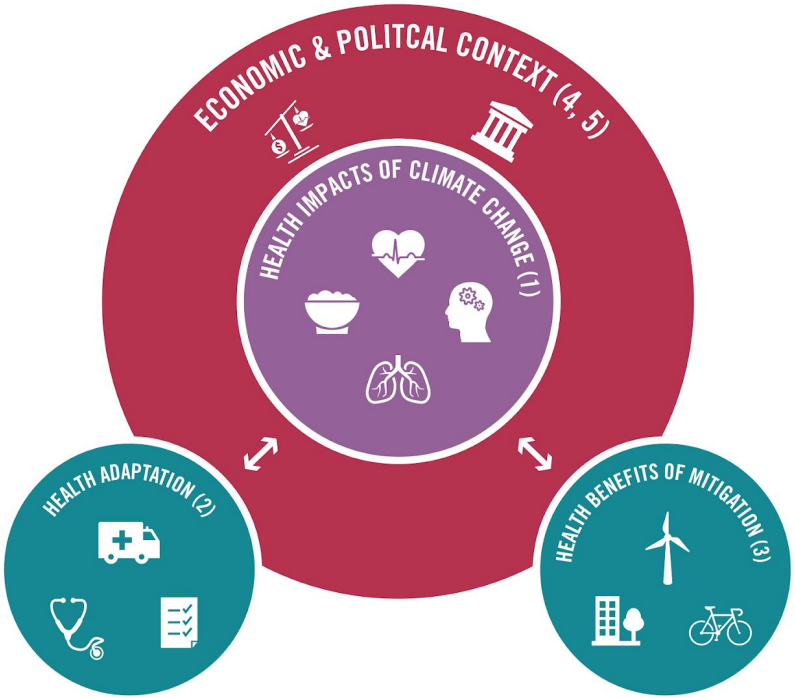
# Modelo Conceptual






How to integrate methodologies into indicators.

# WG- Lancet Countdown SA




- Climate Change Impacts, Exposures & Vulnerability
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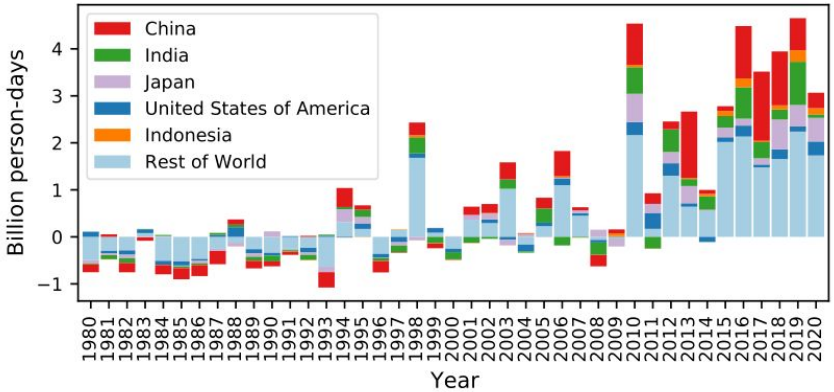
# 1.1.2: Exposure of Vulnerable Populations to Heatwaves

LANCET COUNTDOWN: TRACKING PROGRESS ON HEALTH AND CLIMATE CHANGE

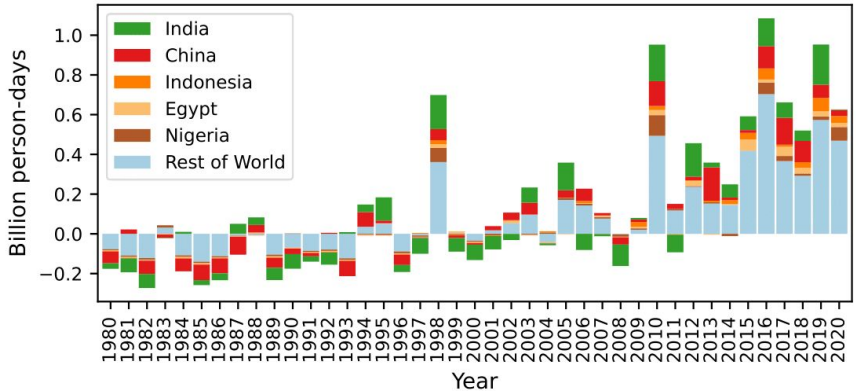
**Headline Finding:**

Adults older than 65 years were affected by 3.1 billion more person-days of heatwave exposure in 2016-2020 than in the 1986–2005 average.

**Chile: 7 million, Peru: 8 million and for Costa Rica: ~800,000**




>65 year old

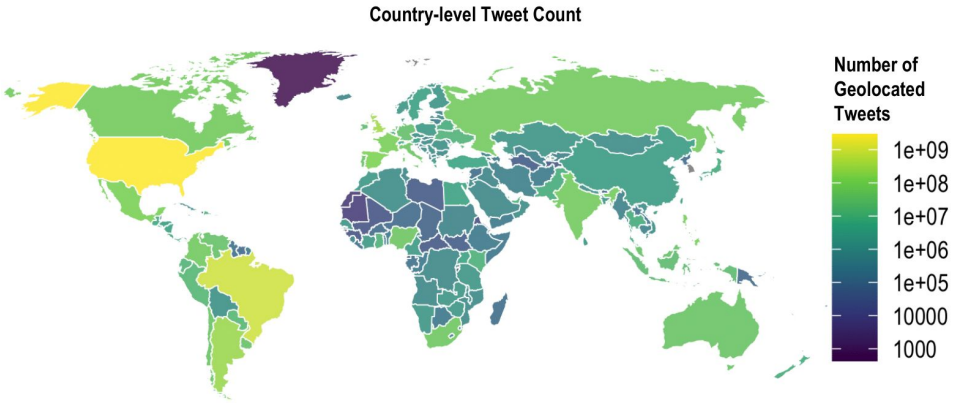


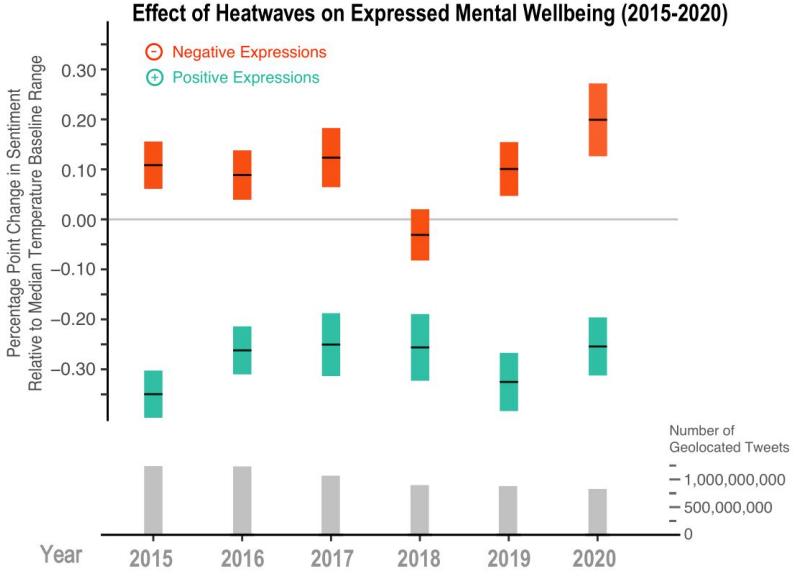

<1 year old

# 1.1.5: Heat and Sentiment

LANCET COUNTDOWN: TRACKING PROGRESS ON HEALTH AND CLIMATE CHANGE

**Headline Finding:**
Exposure to heatwave events worsens expressed sentiment, with a 155% increase in negative expressions on Twitter during heatwaves in 2020 from the 2015–19 average.



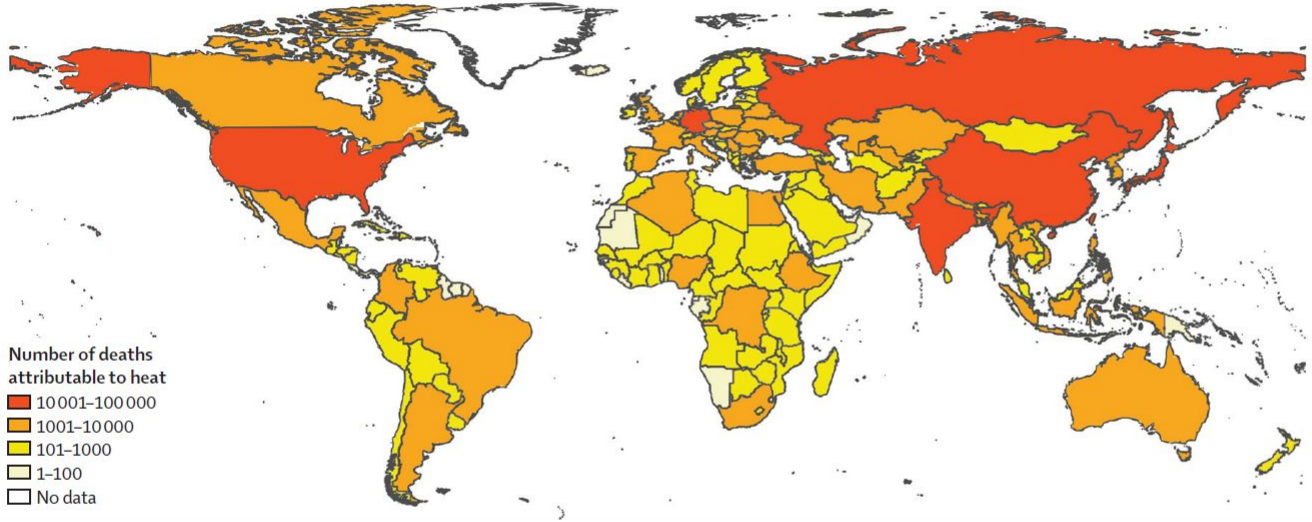



# 1.1.6: Heat-related Mortality

LANCET COUNTDOWN: TRACKING PROGRESS ON HEALTH AND CLIMATE CHANGE

**Headline Finding:**

Heat-related deaths in people older than 65 reached a record high of an estimated 345000 deaths in 2019; between 2018 and 2019, all WHO regions, except for Europe, saw an increase in heat-related deaths in this vulnerable age group.

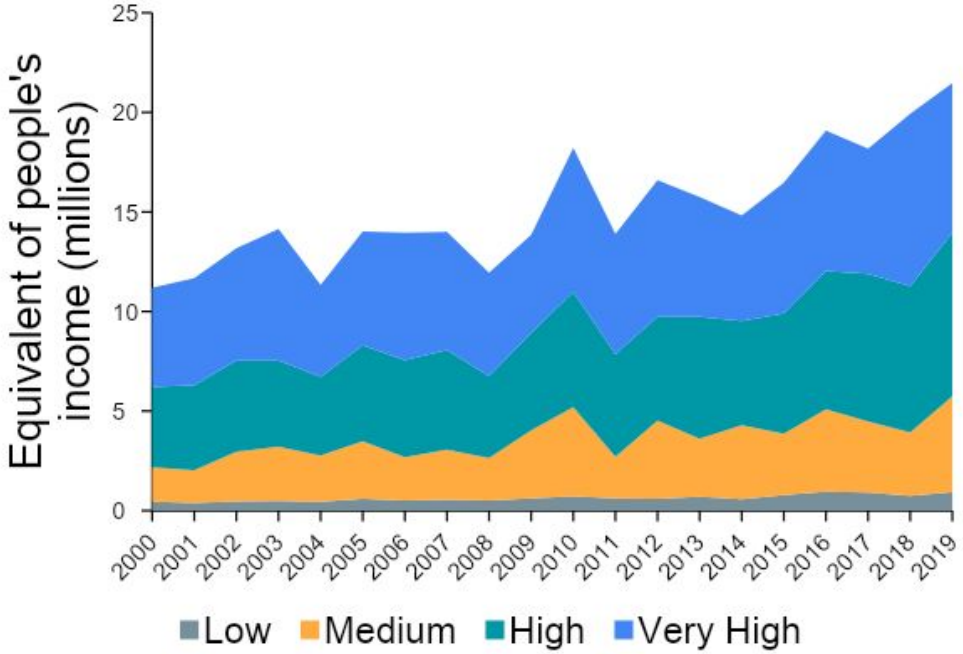


# 4.1.2: Costs of Heat-Related Mortality

LANCET COUNTDOWN: TRACKING PROGRESS ON HEALTH AND CLIMATE CHANGE

**Headline Finding:**

The monetised value of global heat-related mortality increased by 6·7%, from 0·27% of gross world product in 2018 to 0·28% in 2019; Europe continued to be the worst affected region, facing costs equivalent to the average income of 6·1 million of its citizens.

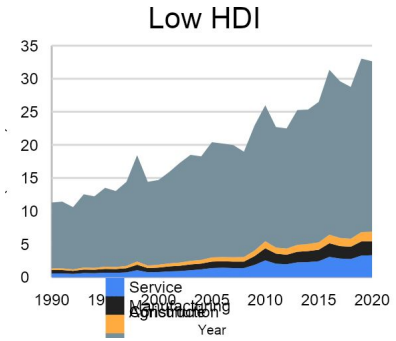


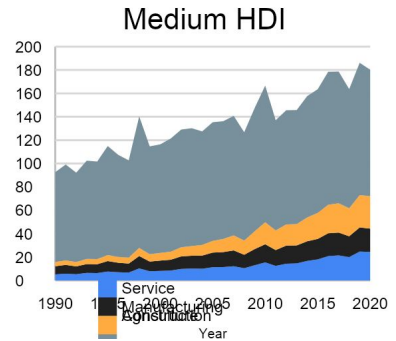
# 1.1.4: Change in Labour Capacity

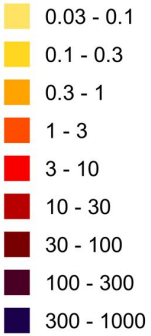
LANCET COUNTDOWN: TRACKING PROGRESS ON HEALTH AND CLIMATE CHANGE

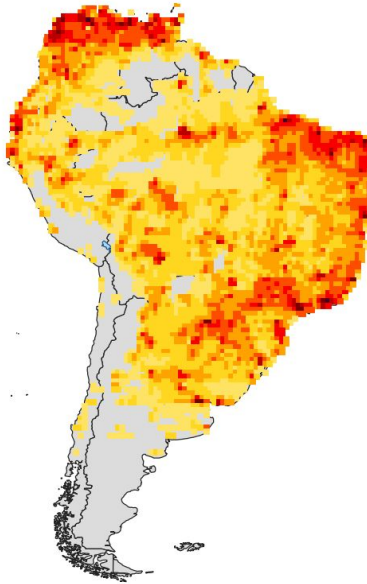
## Headline Finding:

- 295 billion hours of potential work were lost due to extreme heat exposure in 2020, with 79% of all losses in countries with a low HDI occurring in the agricultural sector.
- **10.6 billion hours of potential work were lost in SA**, 5 times more tan in 2000. 85% were in the agricultural sector.
- **In Perú, 253 million** hours of potential work, 60% in the agricultural sector.



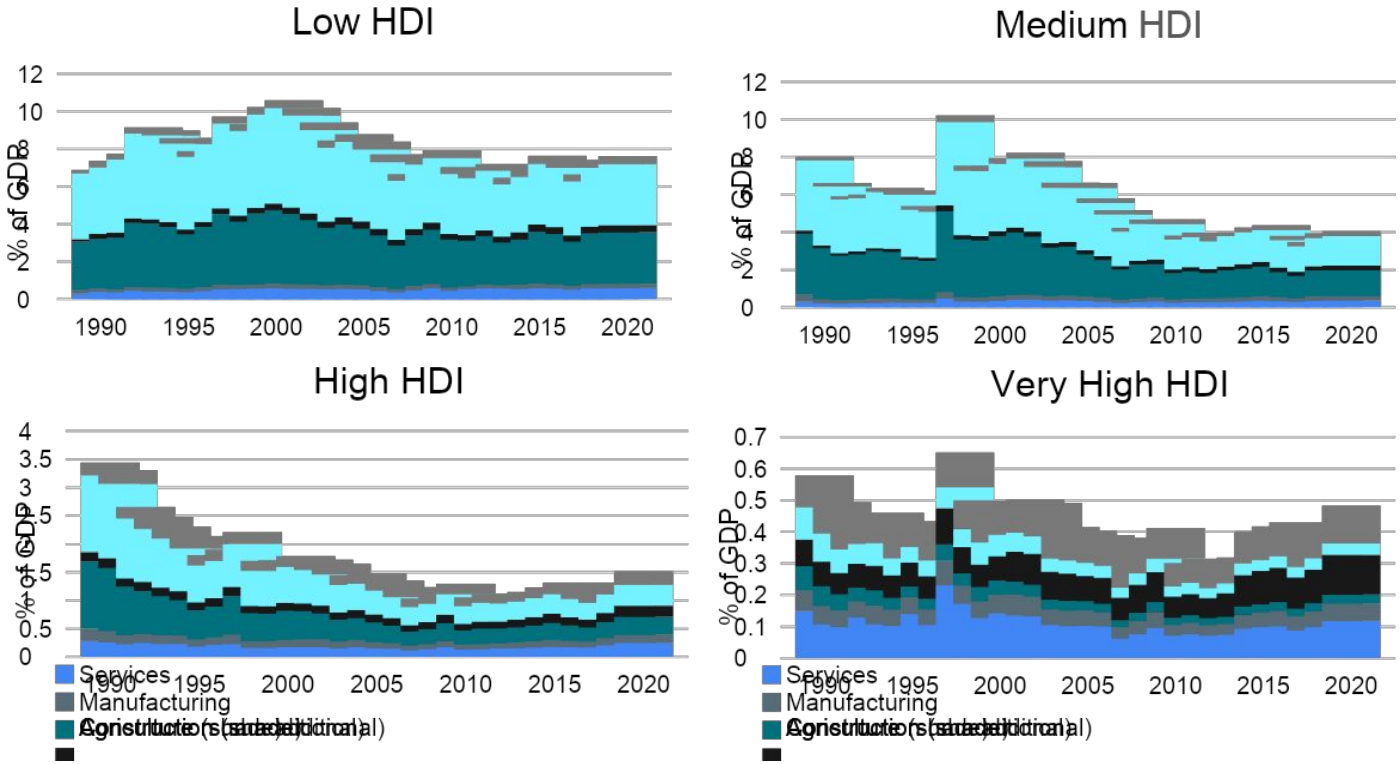



# 4.1.3: Loss of Earnings from Heat-Related Labour Capacity Reduction

LANCET COUNTDOWN: TRACKING PROGRESS ON HEALTH AND CLIMATE CHANGE

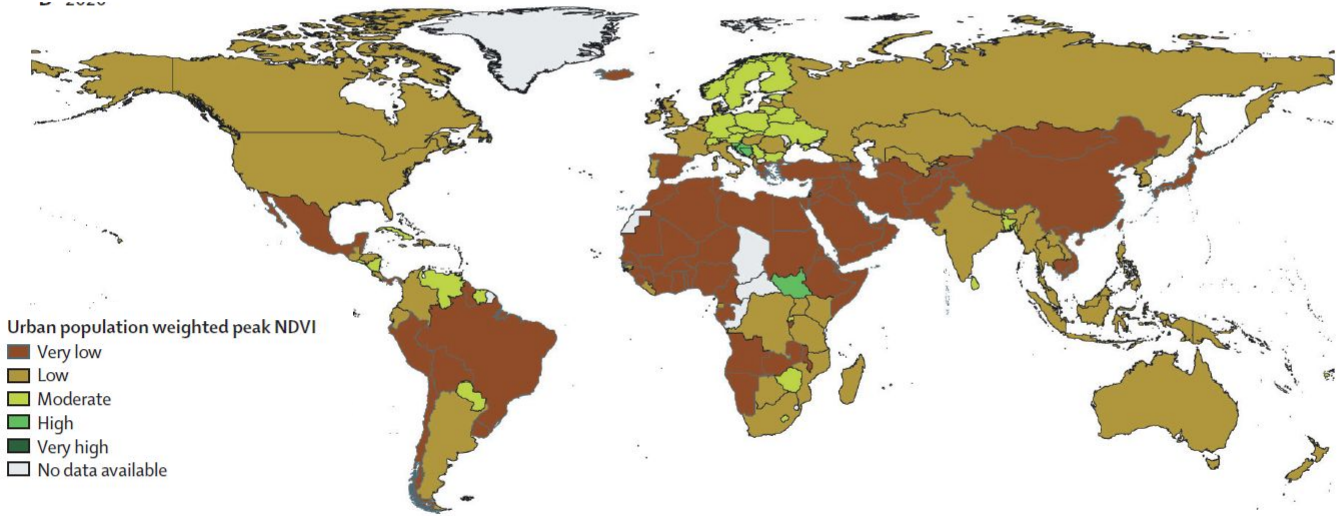
**Headline Finding:** Working in conditions of extreme heat is a health risk; such conditions could reduce the capacity for paid labour, with an impact on workers' earnings equivalent to 4–8% of GDP in the low HDI country group in 2020.



# 2.3.3: Urban Green Space

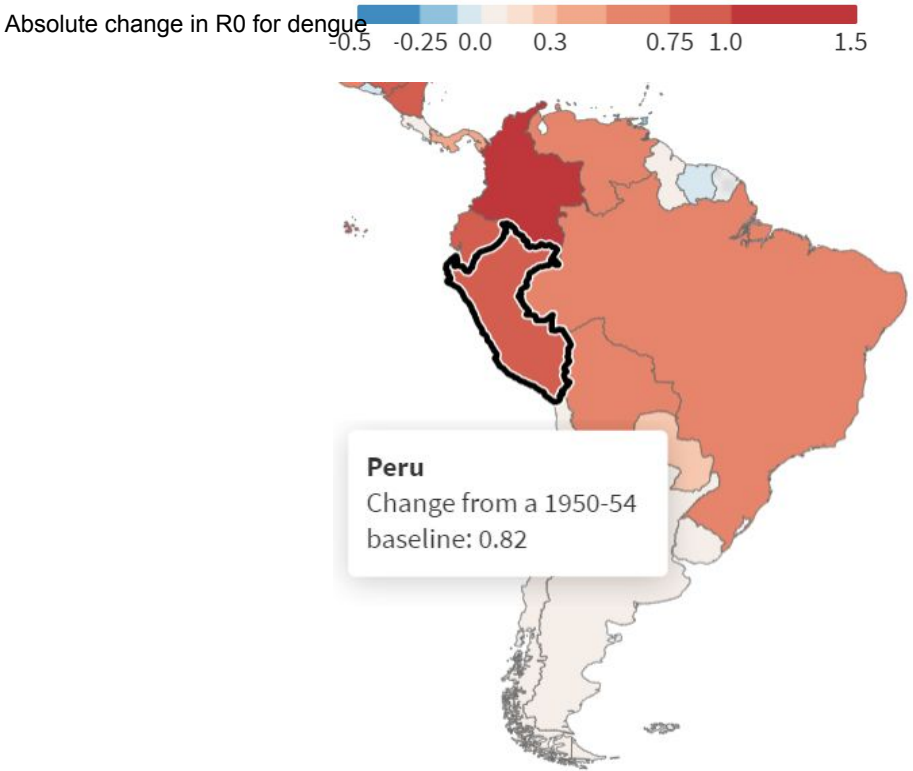
LANCET COUNTDOWN: TRACKING PROGRESS ON HEALTH AND CLIMATE CHANGE

**Headline Finding:**
Globally in 2020, 27% of urban centres were classified as being moderately green or above, an increase from 14% in 2010; the percentage of cities under this classification varied from 17% of urban centres in the low HDI country groups to 39% of urban centres in the very high HDI country group.



# 1.3.1: Climate Suitability for Infectious Disease Transmission

**Headline Finding:**
Globally, the potential for dengue transmission was 13% higher for A aegypti in 2020 than in 1950–54.
In Peru, the environmental suitability for A aegypti transmission was 48% higher in 2016-20 than in 1950-54.

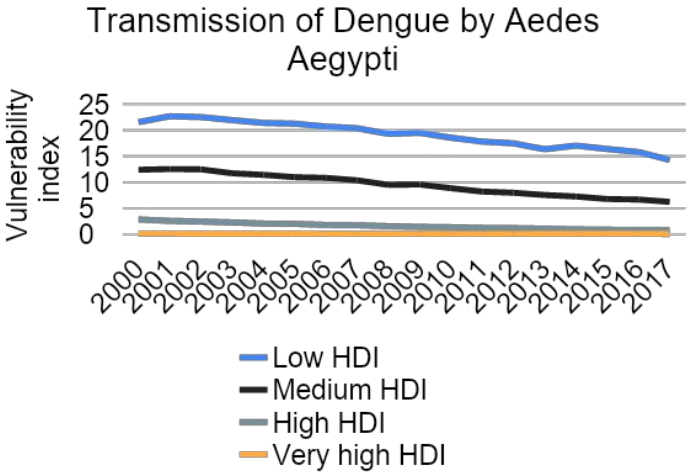


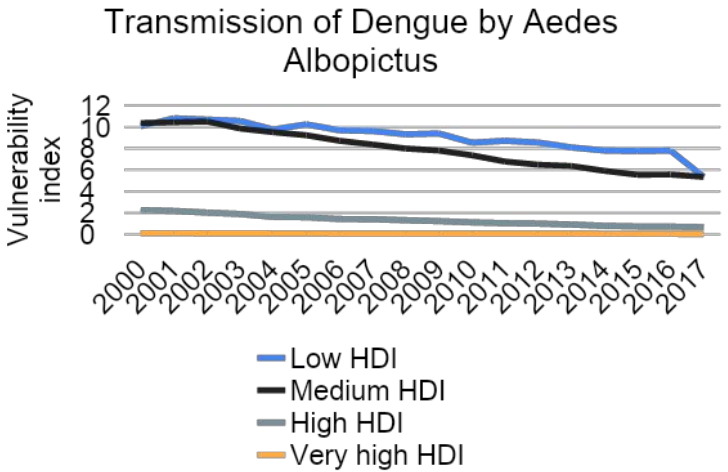
# 1.3.2: Vulnerability to Mosquito-Borne Diseases

LANCET COUNTDOWN: TRACKING PROGRESS ON HEALTH AND CLIMATE CHANGE

**Headline Finding:**

Although vulnerability to arboviruses transmitted by *A albopictus* and *A aegypti* has decreased across all countries since 2000, people in countries in the low HDI group are still the most vulnerability on average.



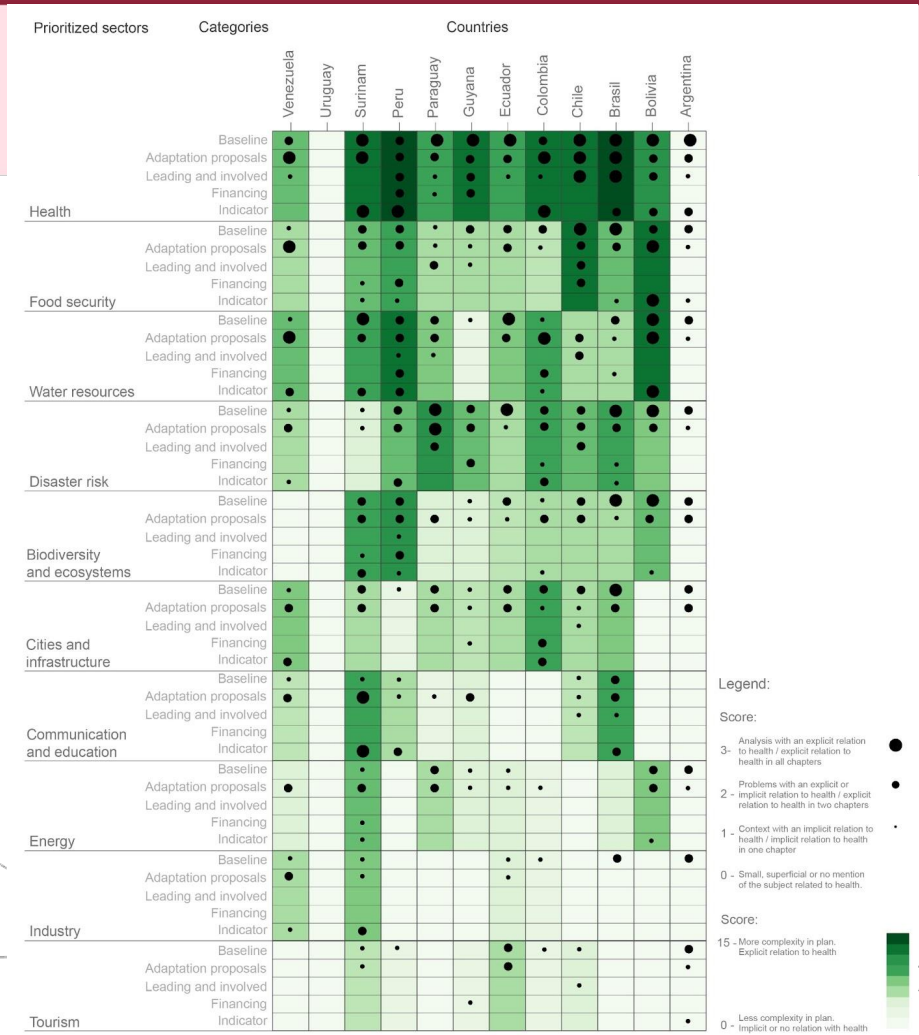
# Fórmula  y fuentes

**Vulnerabilidad = UP * HCAQ**

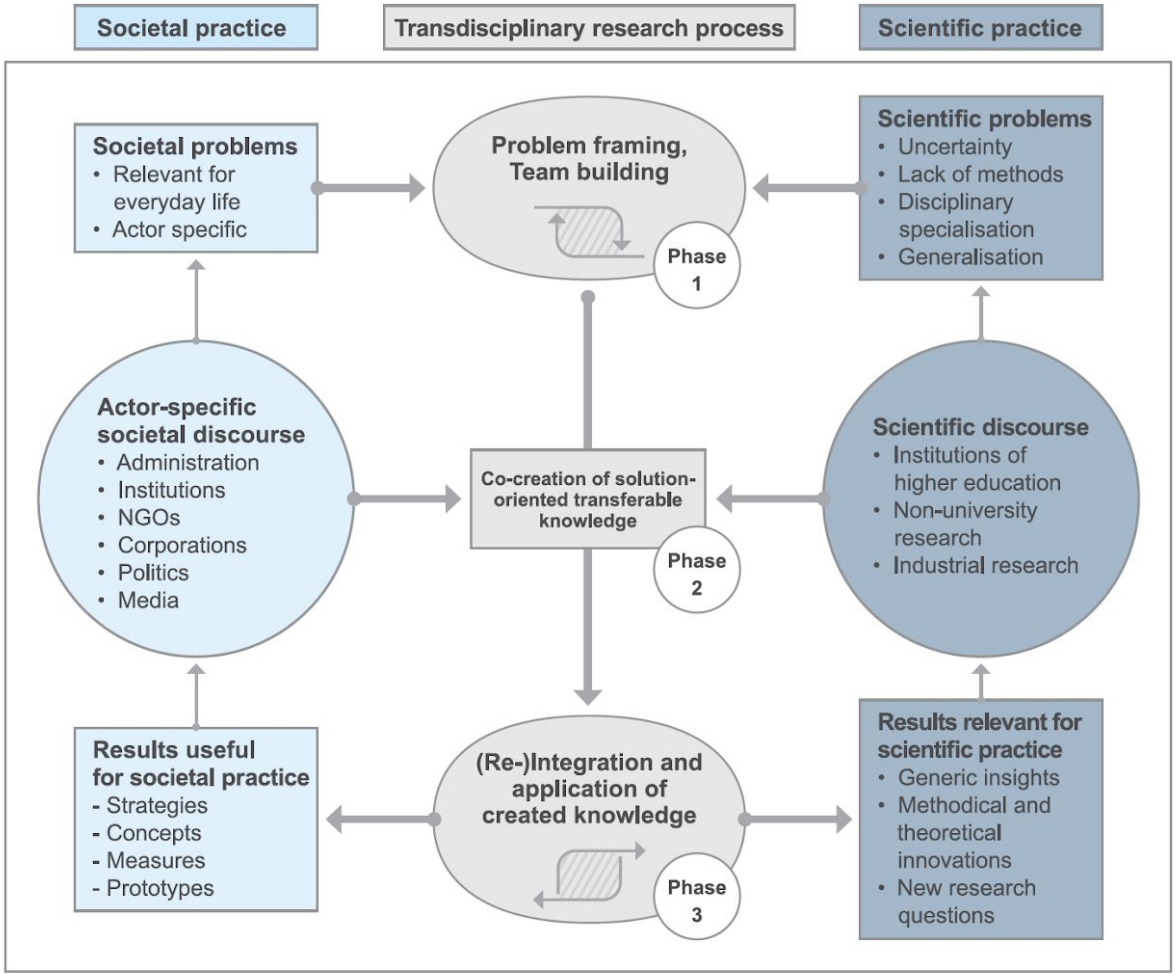
HCAQ= 100 - % de muertes prevenibles

- UP:% de población urbana en escala de 1 a 100 ***(Fuente: World Bank, World Development Indicators.)***

- HCAQ: % de acceso y calidad de la atención médica  es escala de 1 a 100 ***(Fuente: Global Burden of Disease Collaborative Network. Global Burden of Disease Study 2019 (GBD 2019) )***



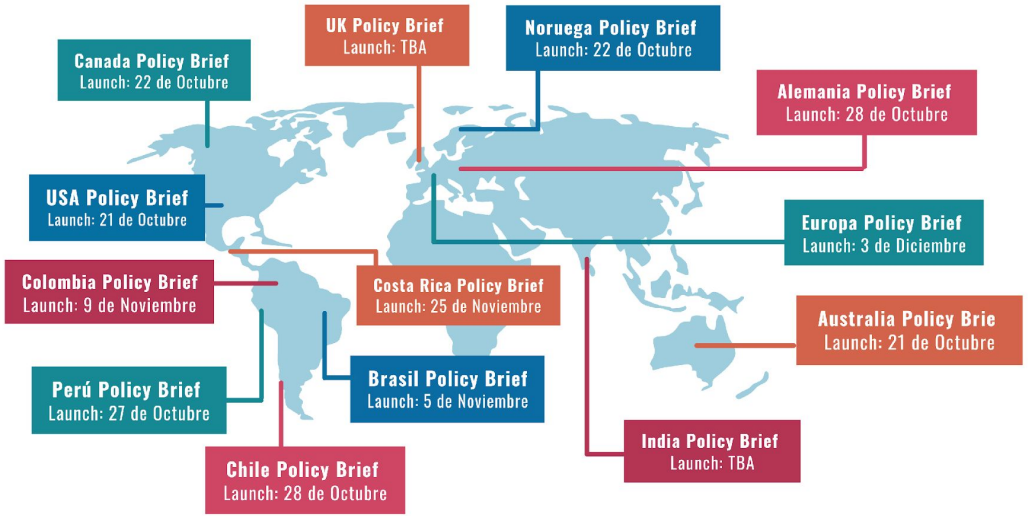

- Baseline
- Adaptation proposal
- Leadership/ accountability
- Financing
- Indicators of success




Communication and dessimination

# Expandir las comunicaciones

## Eventos de Lancet Countdown en el Mundo



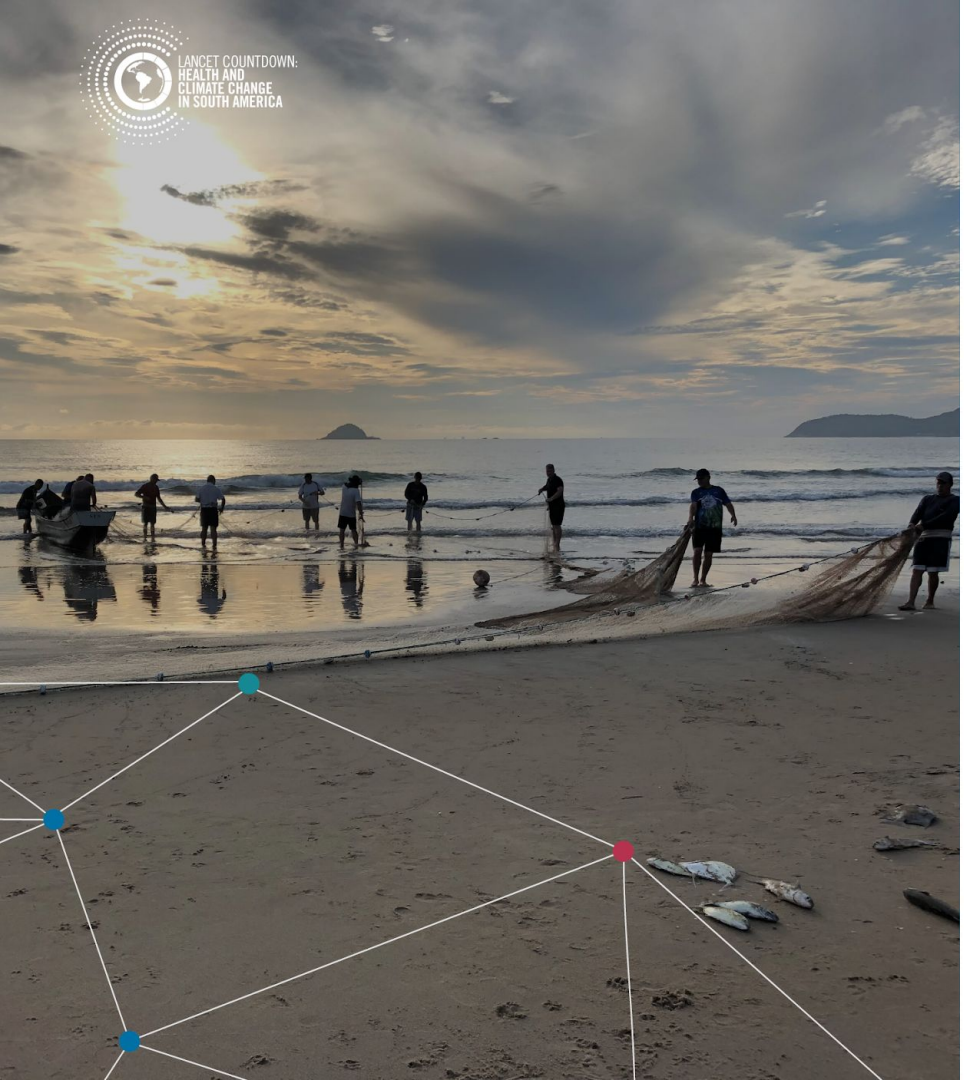

Encuentra tu **informe político local y el evento de lanzamiento** y únete a nosotros para explorar en un contexto local los impactos del cambio climáticos en nuestra salud

Únete a nosotros para el lanzamiento de los Policy Briefs de 2021

Si deseas asistir a alguno de los eventos, encontrarás más información aquí: https://bit.ly/3aTHPGZ

**#LancetClimate21**

# Lancet Countdown Health & Climate Change




# Thank you

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