

Science-based Policy Solutions for Climate Change and Health Challenges

Presenting real-world examples of co-designed, systems-based, multidisciplinary approaches that can be used to support policy development at the nexus of climate change and health.

The InterAcademy Partnership (IAP) and Save the Children present 14 case studies from around the globe, especially from low- and middle-income countries, that can be **useful guides** to scientists and policy makers seeking information on how to engage diverse publics, develop research projects, and devise effective win-win policies.

Lessons Learned from an Analysis of the Case Studies



Take a systems-based approach with cross-sectoral integration



Co-produce evidence with policy-makers and affected communities



Prioritize equity: Identify groups who are most vulnerable and why



Build trust for formulating policy: invest early in end-user relationships



their interconnections emerging from workshop discussion

Identify policy target at the outset



Build trust for implementing policy: produce scientific findings that address context-specific climate and health priorities



Identify policy trade-offs and mitigate unintended consequences



Incorporate lessons learned as part of long-term capacity building for better decision-making



The IAP and Save the Children present **14 case studies** from around the globe, of co-designed, systems-based, multidisciplinary approaches that can be used to support **policy development** at the **nexus of climate change and health**.

- Benin: Lessons from the formulation of a National Adaptation Plan
- Ethiopia: Mapping the urban overheating hazard and its driving factors in Addis Ababa
- Ghana: Co-production methodologies to deliver city-level flood resilience and reduce health inequalities in sub-Saharan Africa
- South Africa: Using machine learning to map bioclimatic zones and crop yields in water-scarce conditions
- South Africa: Addressing heat-health threats among women, infants and children in primary healthcare settings
- Sub-Saharan Africa: Food security and resilience using a small-scale funding model

 Brazil: Climate, air pollution and socioeconomic vulnerability: a research platform to implement policies to improve environmental health





- Bangladesh: Aquifer storage and recovery technology for irrigation water supply
- India: The health benefits of response actions to air pollution and extreme heat in Ahmedabad
- Lao, Pakistan, Somalia, Sri Lanka: Systems thinking to estimate the health co-benefits of climate action



- Malaysia: The Urban Heat Island phenomenon and its impacts on vulnerable groups
- Thailand: The link between mental health and ecosystem health in Indigenous farming communities



The case studies referred to are available in a book published by IAP and Save the Children. Scan the QR code on the left to access.



More information is available in the Science-policy brief. Scan the QR code on the left to access.

Websites

IAP: www.interacademies.org
SCUS: www.savethechildren.org