Global Experience in Evidence for Building Climate Resilient Health Systems





Health impacts are diverse and large





Climate change





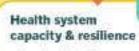
Vulnerability factors

- · Demographic factors
- · Geographic factors
- · Biological factors & health status
- · Sociopolitical conditions
- · Socioeconomic factors

Vulnerability

Exposure pathways

- · Extreme weather events
- · Heat stress
- · Air quality
- · Water quality and quantity
- · Food security and safety
- · Vector distribution & ecology



- . Leadership & governance
- · Health workforce
- · Health information systems
- . Essential medical products & technologies
- · Service delivery
- · Financing

Climate-sensitive health risks

Health outcomes



and mortality from extreme weather events



Heatrelated illness



Respiratory liness.



Water-borne diseases and other water-related health impacts



Zoonases



Vectorborne diseases



diseases

Mainutrition Noncommunicable Mental and and fooddiseases (NCDs) psychosocial borne



Health systems & facilities outcomes



Impacts: on healthcare facilities



Effects: on health systems

SIXTH ASSESSMENT REPORT

Working Group II – Impacts, Adaptation and Vulnerability

INTERGOVERNMENTAL PANEL ON CLIMATE CHANGE





(b) Observed impacts of climate change on human systems Impacts on Impacts on Impacts on health and wellbeing water scarcity and food production cities, settlements and infrastructure Animal and Fisheries Flood/storm Damages Heat, Agriculture/ yields and induced Damages to key livestock looding and Human Water health and aquaculture Infectious mainutrition Mental damages in associated economic crop health systems Displacement carcity production productivity production diseases and other damages coastal areas infrastructure sectors 43 ****** 0 Global 0 0 0 0 0 0 Africa 0 0 0 0 0 0 Asia 0 0 0 not assessed 0 Australasia Central and 0 South America assessed 0 0 0 0 Europe 0 0 0 North America 0 0 0 Small Islands 0 0 0 0 0 Arctic 0 not assessed Cities by the sea Mediterranean region assessed 0 0 Mountain regions na

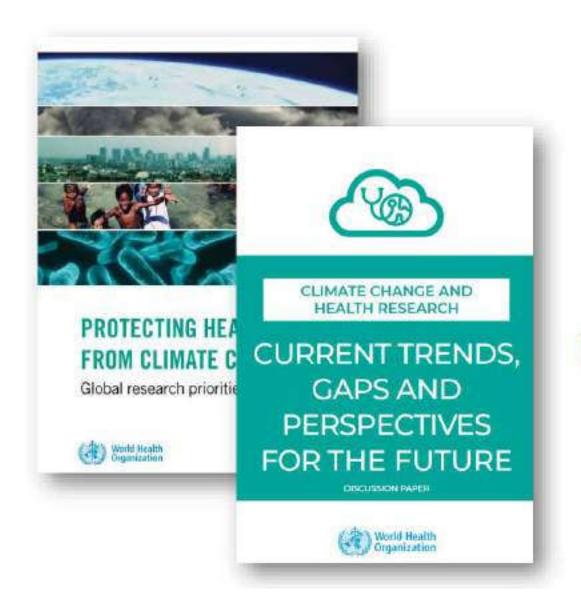
Confidence in attribution to climate change

- High or very high
- Medium
- Low
- Evidence limited, insufficient
- na Not applicable

Impacts to human systems in panel (b)

- Increasing adverse impacts
- Increasing adverse and positive impacts

From identifying research gaps to co-developing agendas and "horizon scanning" for new risks



Coming soon: consultation on research priority setting



Making global evidence relevant and accessible



1990 to 2023:

Transition from global reports to locally relevant profiles of risks, impacts, opportunities and progress













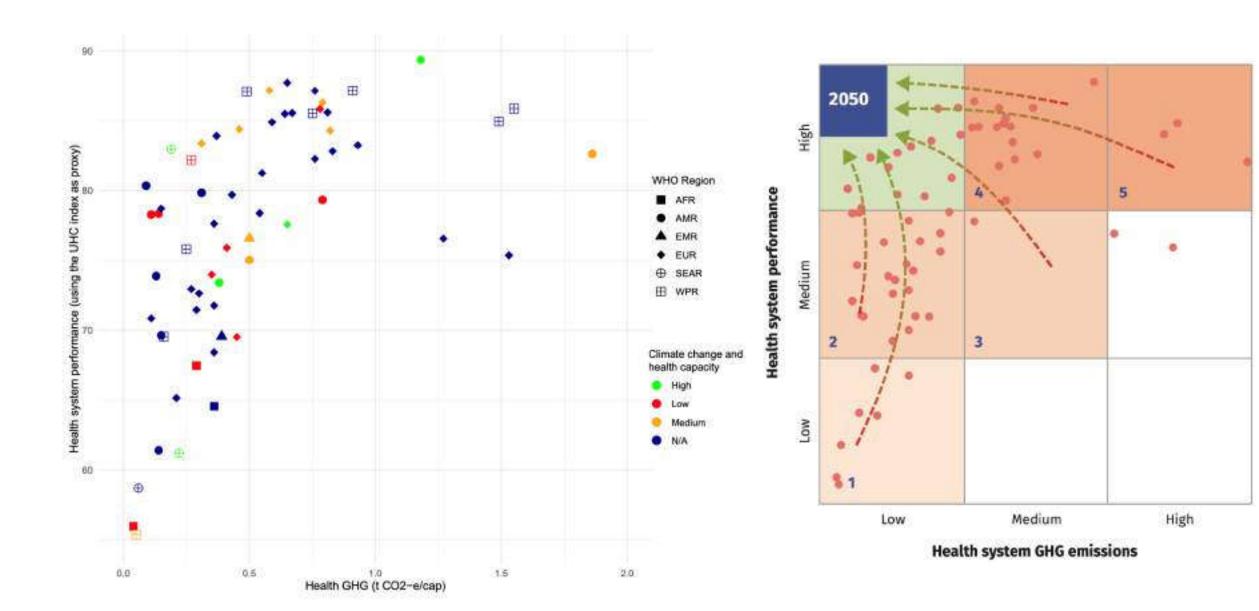


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HEALTH AND CUMATE CHANGE URBAN PROFILE
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Health systems performance, health sector GHG per capita emissions, and CCH capacity



Different pathways for building climate resilient and low-carbon health systems

Area	Health system performance	Health sector GHG emissions	Climate resilience and low carbon pathways
1	Low	Low	Focus on climate resilience while adopting sustainable low carbon technologies
2	Medium	Low	Strengthen climate resilience while introducing sustainable low carbon interventions
3	Medium	Medium	Strengthen both climate resilience and low carbon sustainability
4	High	Medium	Strengthen low carbon sustainability while promoting climate resilient health systems
5	High	High	Focus on achieving net zero emissions while continuing to promote climate resilience
Target	High	Low	Net zero emissions and climate resilience by 2050

WHO Operational framework for climate resilient and Low-carbon health systems

Structured around **building blocks** of **health systems**

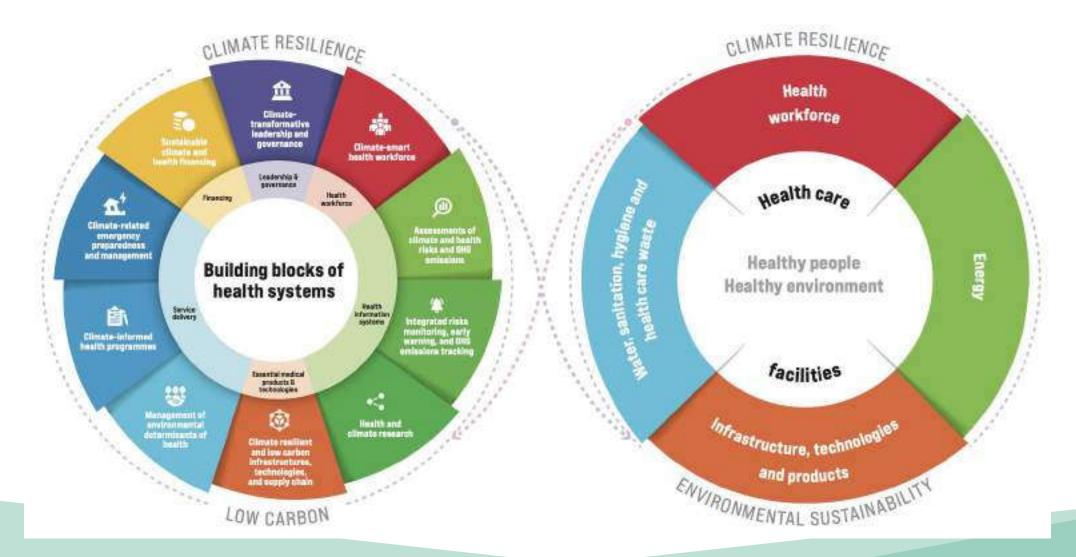
Proposed **interventions** around 10 components and **indicators** to assess progress

Climate resilient and low carbon health systems are those capable of anticipating, responding to, coping with, recovering from, and adapting to climate-related shocks and stresses, while minimizing GHG emissions and other negative environmental impacts to deliver quality care and protect the health and well-being of present and future generations.



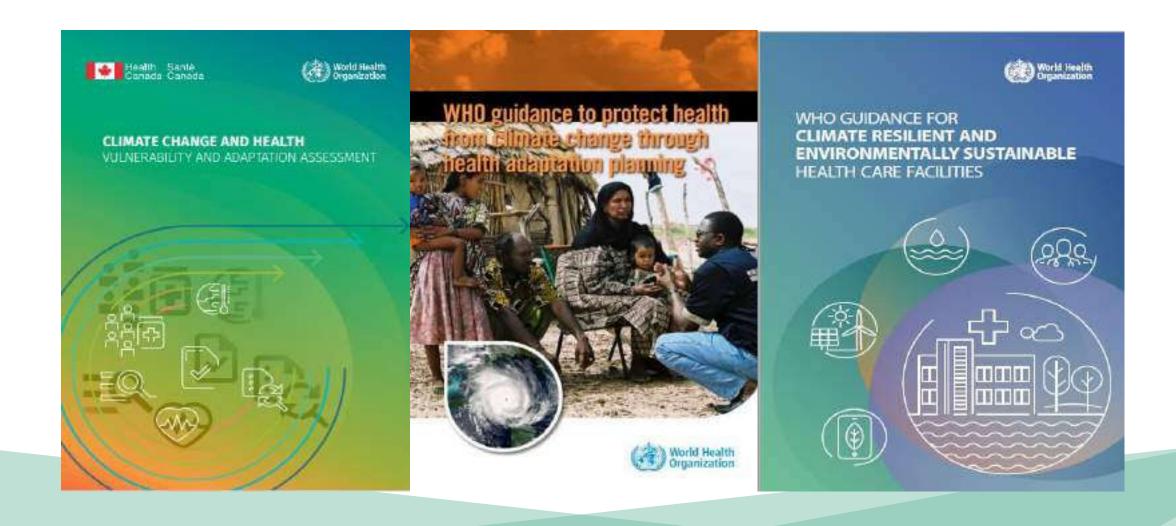


More focussed approach at health care facility level



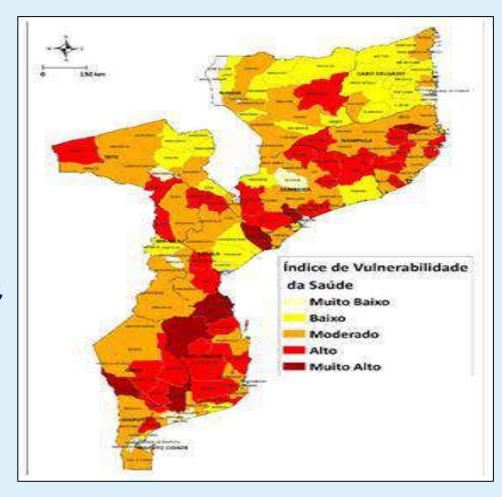
Operational framework for climate resilient and low carbon health systems as the umbrella for climate change and health actions ARGUMENT global environment facility FOR CLIMATE GREEN ACTION CLIMATE FUND (A) COLOR CLIMATE RESILIENCE 盘 leadurskip and heelth workforce Leadership S governance Climate-related preparedness MEALTH in the Mationally betermined Contributions of strator products in products in technologies COUNTRY PROPERTY. Management of analysomertal determinants of leadth B Webrick to bring 1 Lin CAPSIANO FOR THE FUTUR LOW CARBON

Guidance exists for all of these steps



Mozambique

- V&A assessment finalized which includes a Health Vulnerability Index (HVI) by district.
- Evidence gathered with V&A used to develop draft H-NAP.
- Health Vulnerability Index (HVIs) by district used to develop protocol for assessing vulnerability in HCFs.
- Capacity strengthened at MoH and NIH on CCH, including V&A, HNAP, climate informed surveillance, CRESHCFs and CR-WASH.
- University curricula developed.
- Research agenda on climate change and health developed.
- EWARS dashboard developed for integration of weather, health and vector data.



Health Vulnerability Index (HVIs) by district of Mozambique,, May 2020



Example: Current Climate & Health Financing Projects in Timor L'Este

	Project Name	Amount \$	Finance	Project Duration	Key Activities
	Healthcare Actions through Rapid Infrastructure Investments ("HARI'I") Project	50M	WB	2023-2028	 HARI'I Project focuses on the extremely climate-vulnerable municipalities Ermera, Lautem, and Viqueque, home to a quarter of Timor-Leste's predominantly rural population Constructing three resilient municipal hospitals, with energy-efficient equipment, and upgrading 110 primary care facilities. Project will support the provision of energy-efficient medical equipment to two tertiary care hospitals
	 Grant funding Energy Sector Management Assistance Program Health Emergency Preparedness and Resilience Trust Fund (HEPR-TF) Project 	250K	ESMPA HEPR-TF		
	WHO/UNDP/GEF Project on Building Resilience of Health Systems in Asian LDCs to Climate Change	1.077M 240K WHO CO 1.5M Govt CO	GEF	2017-2024	 Establishment of Water Treatment System in Maliana Referral Hospital & Baucau Simulation Skills Center Conducting Solar Feasibility Assessments and installation of Solar PV system in Baucau Simulation Skills Center, CHC Trilolo Assessment of Clean Household Energy in TLS using WHO's Household Energy Assessment



- Assessment of Clean Household Energy in TLS using WHO's Household Energy Assessment Tool (HEART)
- General Climate and Health V and A assessment for TLS and development of HNAP and EH strategy
- Support to develop SOPS for National Health Laboratory on Water Quality and Food Safety
- National Training on Climate Sensitive Diseases and EWARS for MOH
- Pilot Tested Climate Resilient and Environmentally Sustainable (CRESH) Score Card
- National Health Care Waste Management Policy is developed
- Climate Resilient and Environmentally Sustainable Health Care Facilities Policy and Strategy is developed
- Climate and Health Research: Conducting Health Vulnerability and Adaptation Assessments and Development of Climate and Health Risk Profile for all the Municipalities
- Many activities planned including conducting health sector carbon emission study and development of CR WSSP and CR SSP, establishing EWARS for climate sensitive disease surveillance etc

Credit: Tomasia de Sousa, Ministry of Health, Timor-Leste









Raising political ambition

COP26/27 Presidency Health initiatives

76 Countries committed at Minister level

ATACH brings together

Countries, agencies, technical experts, UN Agencies, MDBs, NGOs

to support delivery through:

Advocacy, technical support, knowledge sharing, monitoring & access to finance

Convened by the UK, Egypt and UAE as COP Presidents

ATACH Working Groups	Chairs
Climate Resilience	Ivory Coast and Health Canada
Decarbonization	Lao PDR and HCWH
Supply-chains	Bangladesh and NHS England
Finance	Germany and World Bank
Nutrition and Climate Action (I-CAN)	GAIN and Egypt

Thank you Muito Obrigado!