



Global Goal on Adaptation: Health Target

Diarmid Campbell-Lendrum,
Unit head, Climate change
and health



Health in the GGA

Overarching global adaptation target: "...reducing vulnerability and enhancing adaptive capacity and resilience, as well as the collective well-being of all people, the protection of livelihoods and economies, and the preservation and regeneration of nature, for current and future generations,..."

"Global adaptation target for health: Attaining resilience against climate change related health impacts, promoting climate-resilient health services, and significantly reducing climate-related morbidity and mortality, particularly in the most vulnerable communities;

Climate change

Vulnerability



Vulnerability factors

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

Exposure pathways

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

Health system capacity & resilience

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

Climate-sensitive health risks

Health outcomes



Injury and mortality from extreme weather events

Heat-related illness

Respiratory illness

Water-borne diseases and other water-related health impacts

Zoonoses

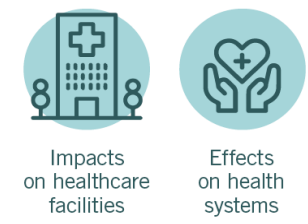
Vector-borne diseases

Malnutrition and food-borne diseases

Noncommunicable diseases (NCDs)

Mental and psychosocial health

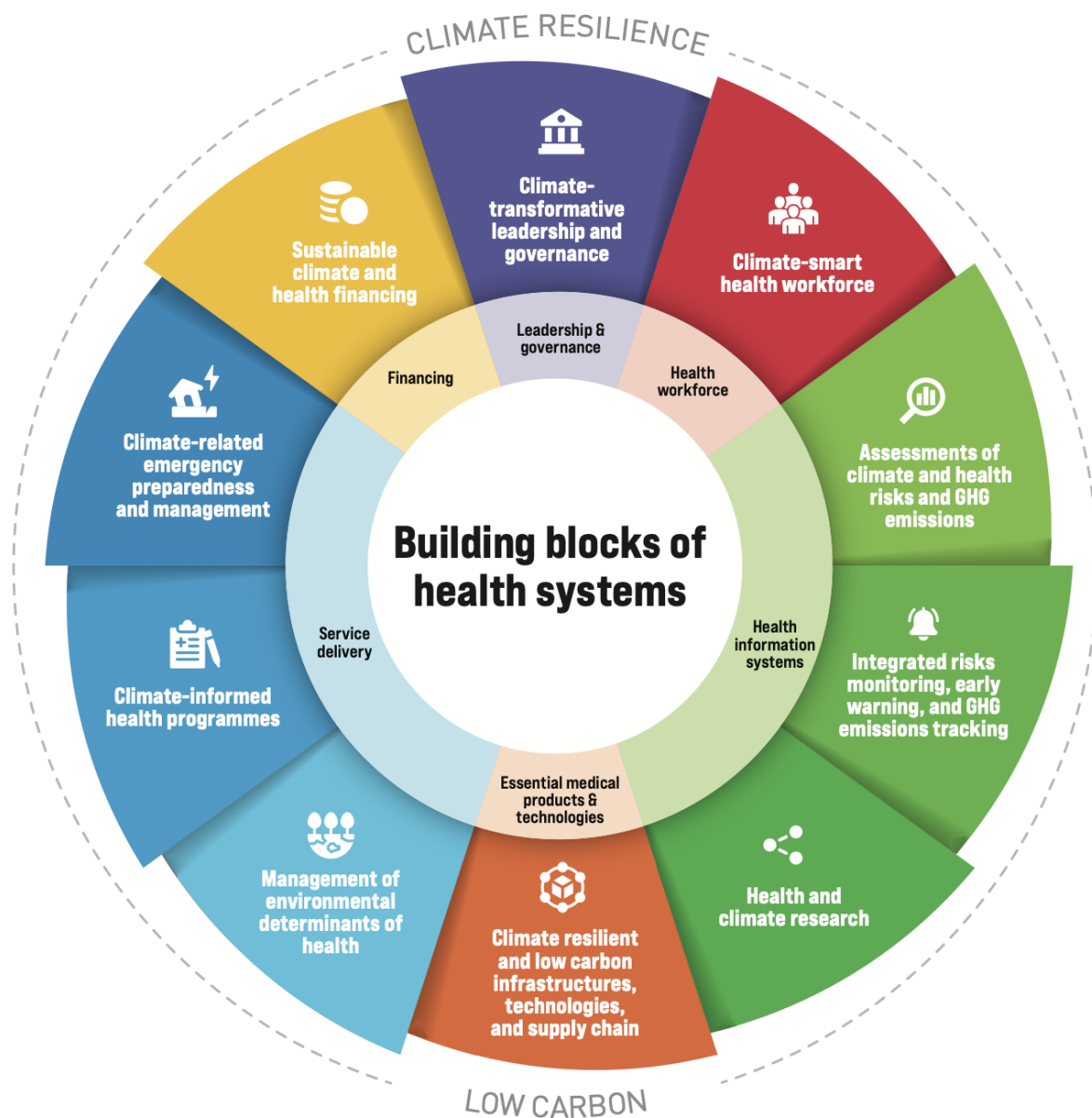
Health systems & facilities outcomes



Impacts on healthcare facilities

Effects on health systems

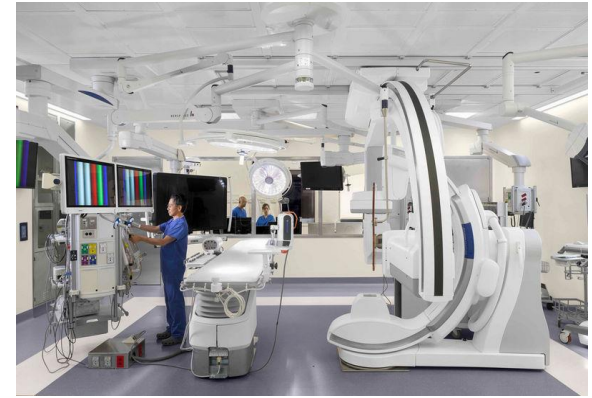
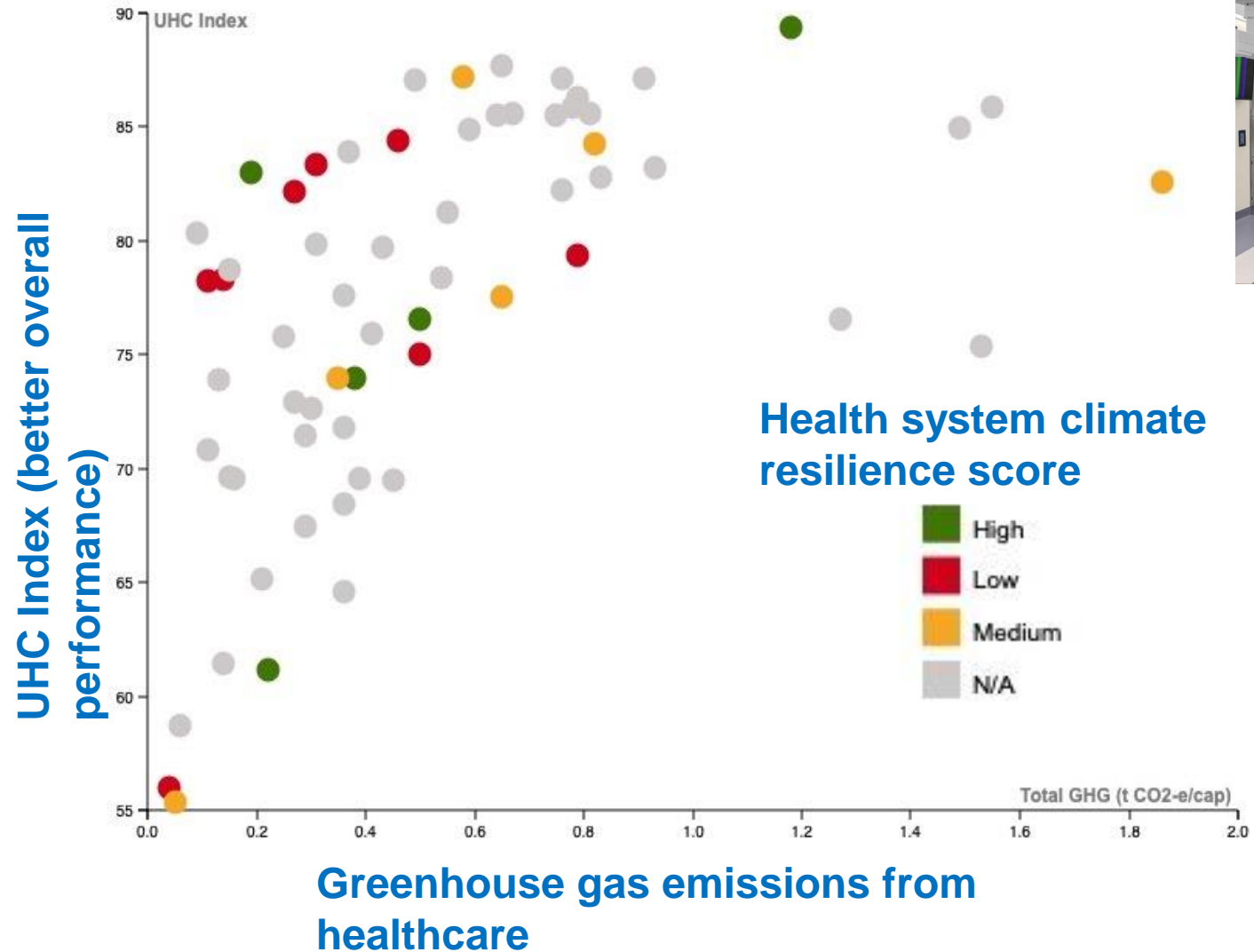
Health systems fit for the 21st Century



System-wide addition of climate resilience to building blocks...

Reduction of the 4.5% of global carbon emissions due to healthcare...

Health system performance, Climate resilience, carbon footprint, by country



Climate change and health as a top priority in WHO's new General Programme of Work

Respond to climate change, an escalating health threat in the 21st century.

1.1. More climate-resilient health systems are addressing health risks and impacts

1.2. Lower-carbon health systems and societies are contributing to health and wellbeing

Indicators proposed:

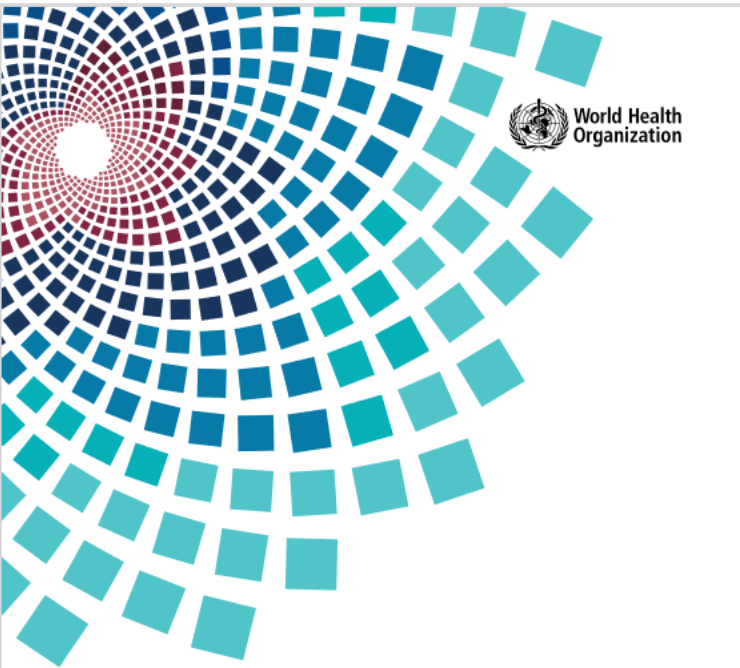
1.1. Index of health system resilience to climate change

1.2. Carbon emissions from healthcare

Inclusion in the WHO investment case:

New assessments show **high return on investment** for 1) Heat-health warning systems, 2) Climate-resilient water and sanitation, 3) Renewable energy for health facilities, 4) Clean household energy, 5) Fossil fuel subsidy reform

WHO has a leading role in: Evidence and Monitoring in partnership with Member States

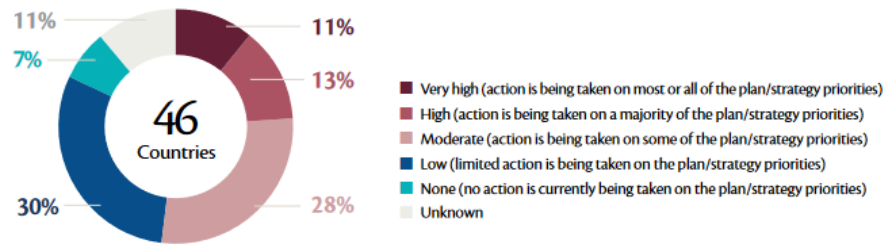


2021 WHO health and climate change global survey report

Implementation of national health and climate change plans or strategies

Only a quarter of surveyed countries (11 out of 46) have reached a 'high' or 'very high' level of implementation of their plans or strategies (Figure 9).

FIGURE 9 Level of implementation of national health and climate change plans or strategies (46 country respondents)



Insufficient finance was the main barrier to the implementation of national health and climate change plans and strategies (Figure 10).

FIGURE 10 Main barriers to implementation of national health and climate change plans or strategies (46 country respondents, multiple responses possible)

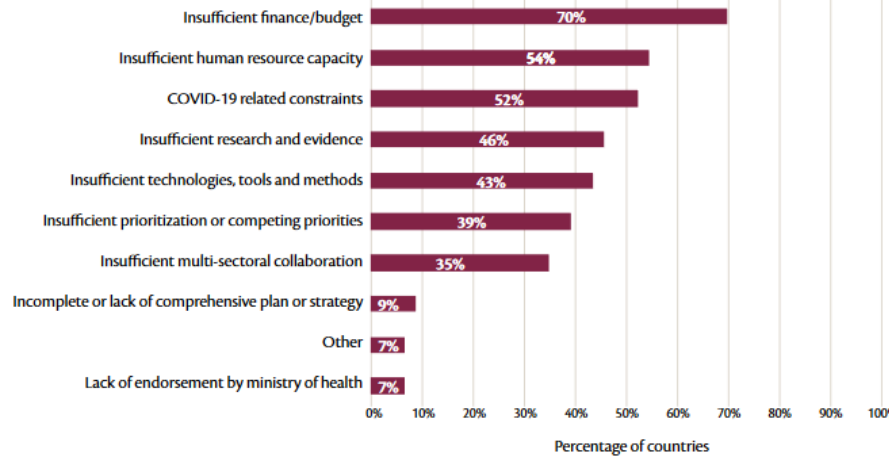
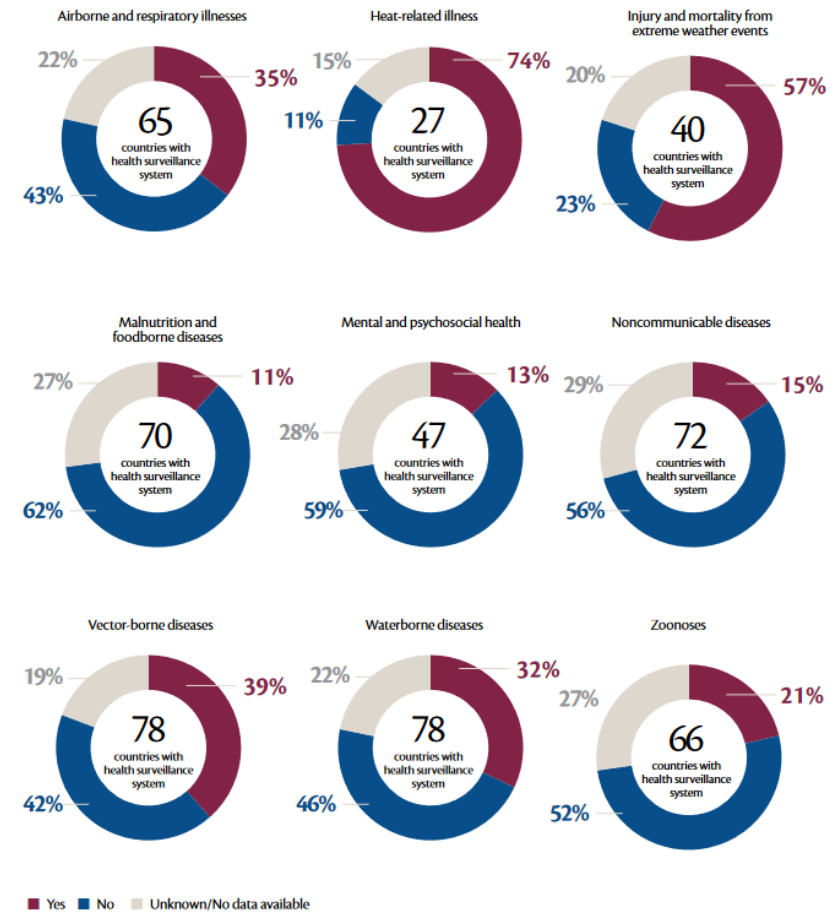
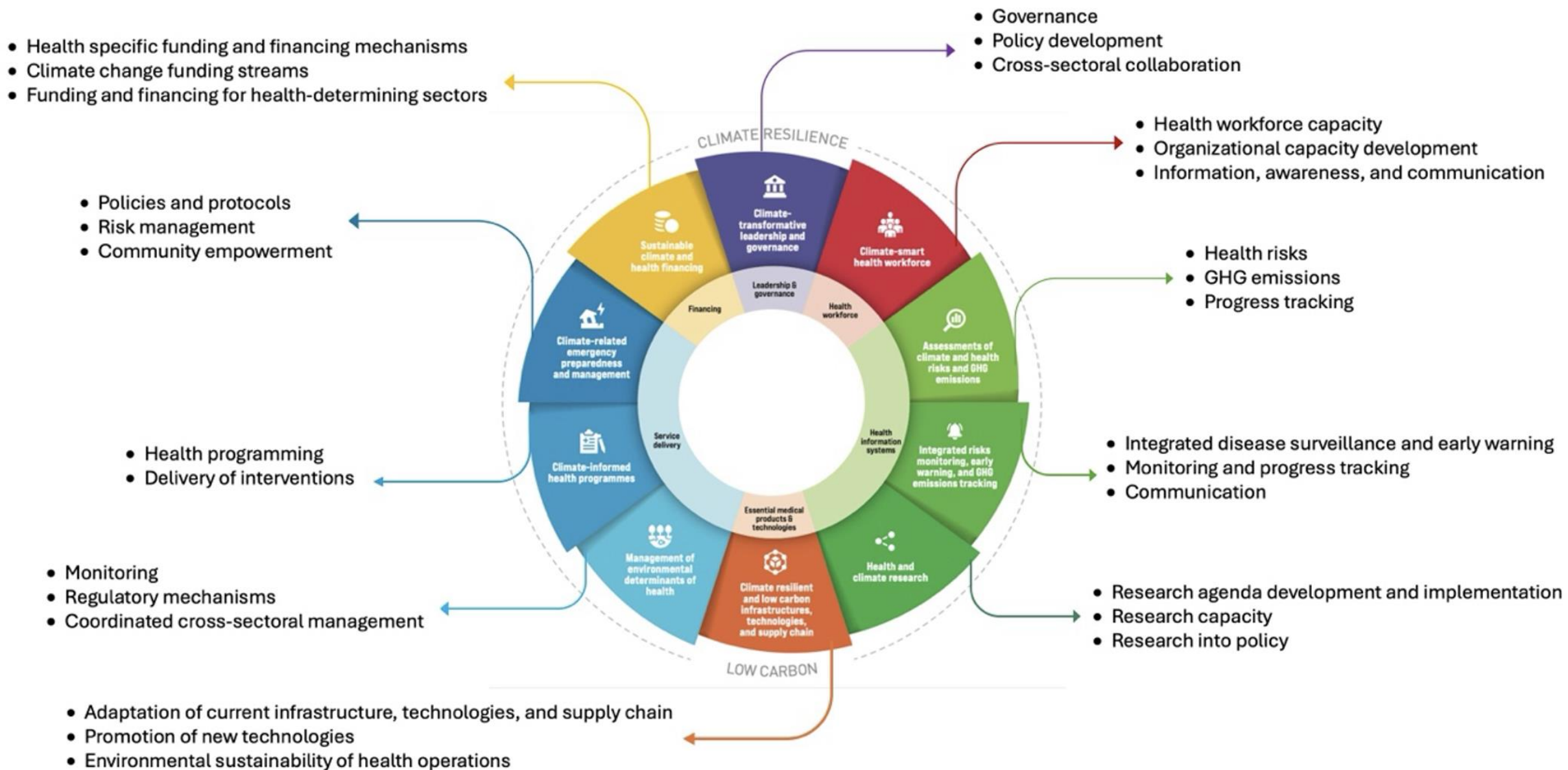


FIGURE 18 Number of surveyed countries that reported having a health surveillance system in place (centre of chart) and what percentage of these health surveillance systems include meteorological information (95 country respondents)



Health systems climate resilience and GHG emissions Index

The Operational framework Components (10) and Component Objectives (29)



Tiers among indicator sets:

Tier 1 indicators: They are the smaller set and are easier to collect, monitor and track. This set currently includes 10 resilience indicators and 10 GHG emission indicators.

Tier 2 indicators: They are more comprehensive, allowing for a better estimate of the (resilience) level by component, but are more complex to collect and analyze.

Tier 3 indicators: They are the larger, global set, collected by WHO in the Country survey. They are very comprehensive, allowing synthesis across countries.

Tier 2 indicators may contain all Tier 1 indicators. Tier 3 indicators may contain Tier 1 and Tier 2 indicators.

Calculation of the Index

All indicators follow the same format, with 6 levels of performance ranging from “no action” (level 0) to “very high” (level 5). Levels are associated to a value which, when combined across the 10 Component indicators, provide the overall resilience or GHG index.

The overall resilience index and the GHG emissions index are calculated as the mean of the ten Component indicators:

$$\text{Resilience (or GHG) index} = \frac{(\text{Component indicator 1} + \text{Component indicator 2} + \dots + \text{Component indicator 10})}{10}$$

Levels of performance and values used to calculate the index

Level of resilience or level of GHG emissions reduction	Value	Level
No action	0	Level 0
Very low	20	Level 1
Low	40	Level 2
Medium	60	Level 3
High	80	Level 4
Very high	100	Level 5

Example – Component 1

Each Component follows the same template consisting of the Rationale, Resilience component indicator, GHG emissions indicator; Sub-indicators by component objectives; Data needed and sources; Computation and units of measurement; Related indicator sets and links to further information.

Example of Rationale

Component 1. Climate-transformative leadership and governance

Rationale	<p>The proposed indicators on resilience and greenhouse gases (GHG) emissions in health systems are proxies for the level of commitment and action of the health sector leadership on climate change. At the health system level, political leadership, and willingness at the highest levels within the government to address the health risks of climate change and to reduce emissions are essential to ensure the integration of climate change considerations by all health programmes. At the same time, an effective response to climate change implies assessment, monitoring, regulation, and management of climate-related health risks that originate in other sectors. Cross-sectoral collaboration is necessary to ensure that partnerships required to warrant whole-of- society actions on climate change and health are implemented. Health sector participation on national or subnational climate change committees or participation by officials from health determining sectors in climate change and health vulnerability and adaptation assessments can support cross-sectoral collaboration. To ensure the process of managing the health risks of climate change, countries can integrate a health component into the overall National Adaptation Plan (NAP). The Health National Adaptation Plan (HNAP) should comprise a detailed health adaptation process, including assessing risks; identifying, prioritizing, and implementing adaptation options; and monitoring and evaluating the adaptation process.</p>
-----------	---

Example – Component 1, Sub-indicator on Policy development

Sub-indicator on objective <i>Policy development</i>	Component objective: Climate change considerations, both for resilience and low carbon sustainability, reflected in main health policies and programmes.																		
	<p>Indicator: Health component of National Adaptation Plan (HNAP) developed</p> <p>Select the most appropriate level of implementation in your setting:</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="text-align: center; width: 5%;"><input type="checkbox"/></td> <td style="padding: 5px;">No HNAP available</td> <td style="text-align: center; background-color: #a6a6a6; color: white;">Level 0</td> </tr> <tr> <td style="text-align: center;"><input type="checkbox"/></td> <td style="padding: 5px;">HNAP being developed</td> <td style="text-align: center; background-color: #e74c3c; color: white;">Level 1</td> </tr> <tr> <td style="text-align: center;"><input type="checkbox"/></td> <td style="padding: 5px;">HNAP developed and endorsed by MoH</td> <td style="text-align: center; background-color: #f1c40f; color: white;">Level 2</td> </tr> <tr> <td style="text-align: center;"><input type="checkbox"/></td> <td style="padding: 5px;">HNAP has an allocated budget and human resources to begin implementation</td> <td style="text-align: center; background-color: #d35400; color: white;">Level 3</td> </tr> <tr> <td style="text-align: center;"><input type="checkbox"/></td> <td style="padding: 5px;">Action is being taken on some of the HNAP priorities</td> <td style="text-align: center; background-color: #7ed321; color: white;">Level 4</td> </tr> <tr> <td style="text-align: center;"><input type="checkbox"/></td> <td style="padding: 5px;">The whole HNAP is being implemented</td> <td style="text-align: center; background-color: #27ae60; color: white;">Level 5</td> </tr> </table>		<input type="checkbox"/>	No HNAP available	Level 0	<input type="checkbox"/>	HNAP being developed	Level 1	<input type="checkbox"/>	HNAP developed and endorsed by MoH	Level 2	<input type="checkbox"/>	HNAP has an allocated budget and human resources to begin implementation	Level 3	<input type="checkbox"/>	Action is being taken on some of the HNAP priorities	Level 4	<input type="checkbox"/>	The whole HNAP is being implemented
<input type="checkbox"/>	No HNAP available	Level 0																	
<input type="checkbox"/>	HNAP being developed	Level 1																	
<input type="checkbox"/>	HNAP developed and endorsed by MoH	Level 2																	
<input type="checkbox"/>	HNAP has an allocated budget and human resources to begin implementation	Level 3																	
<input type="checkbox"/>	Action is being taken on some of the HNAP priorities	Level 4																	
<input type="checkbox"/>	The whole HNAP is being implemented	Level 5																	

Example – Component 1, GHG emissions indicator

GHG emissions
indicator

A GHG emissions' reduction plan in the national health system developed

Select the most appropriate level of implementation in your setting:

<input type="checkbox"/>	No emissions' reduction plan available	Level 0
<input type="checkbox"/>	Emissions' reduction plan being developed	Level 1
<input type="checkbox"/>	Emissions' reduction plan developed and endorsed by MoH	Level 2
<input type="checkbox"/>	Emissions' reduction plan developed with targets defined and agreed among relevant stakeholders at national level	Level 3
<input type="checkbox"/>	Initial action is being taken on the emissions' reduction plan	Level 4
<input type="checkbox"/>	Action is being taken on all the emissions' reduction plan	Level 5

The indicator has a unitless scale of 0 to 100 (corresponding to one of the six levels).

Sample visual summary report



Resilience level

- Very high
- High
- Medium
- Low
- Very low

In this example, the health system has very high level of *Climate-transformative leadership and governance*, but very low on *Health and climate research*. The centre circle represents the index, i.e., the overall resilience level (in this example is medium):

Monitoring is informed by and connected to WHO's climate change and health country projects



\$150+ million

for climate change and health projects since 2008

50+ countries

supported, across SIDS and LMIC



**Global Initiatives with potential to contribute to
measuring progress on the attainment of the GGA
Health Target**

ATACH: Bringing countries and partners together for delivery

In June 2022:



**UN CLIMATE
CHANGE
CONFERENCE
UK 2021**

IN PARTNERSHIP WITH ITALY



COP27
SHARM EL-SHEIKH
EGYPT 2022



I-CAN



**COP28
UAE**



**COP28
UAE**

COP28 DECLARATION ON
CLIMATE AND HEALTH



**The Alliance for
Transformative Action
on Climate and Health
(ATACH) was formed to
support country-level and
global delivery of climate
resilient and low-carbon
health systems**

**82 countries
Over 40 partners
5 Working Groups**



Functions

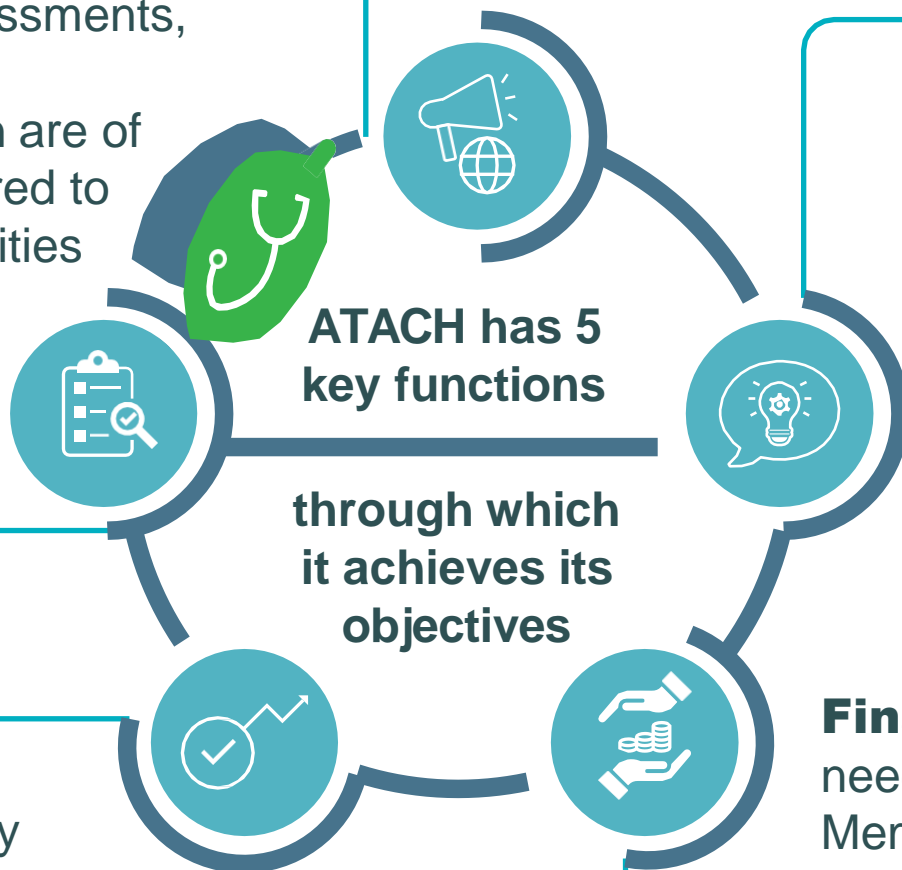
Quality assurance:
to ensure assessments, plans and implementation are of standard required to deliver on priorities

Advocacy and agenda setting:
Creating an international shift in priority issues

Knowledge sharing:
Creating a platform to share experience, evidence, guidance, tools and technical assistance

Monitoring:
Tracking and measuring country progress towards commitments and priorities

Finance: Identifying needs and supporting Member States to access finance for country-level interventions



Solutions and implementation



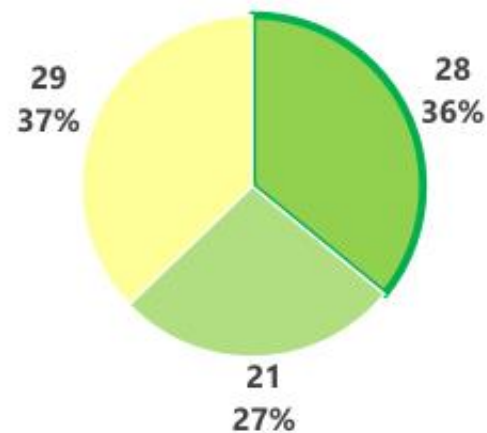
Progress

Monitoring: Country progress on CCH implementation

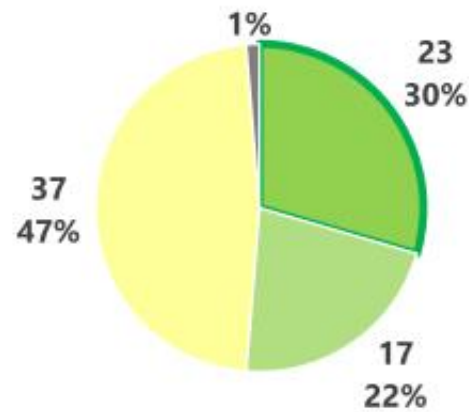
ATACH countries

82 countries committed to climate resilient and/or low-carbon health systems

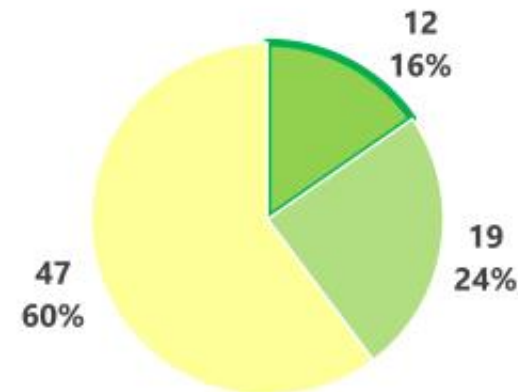
Vulnerability & Adaptation (V&A) assessment conducted since 2020



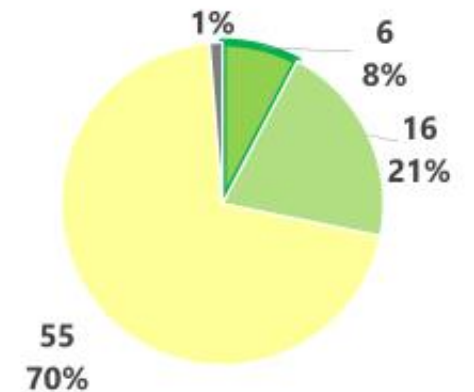
Health National Action Plan (HNAP) developed/updated since 2020



GHG emissions assessment for health system conducted



Low-carbon and sustainable health systems action plan developed



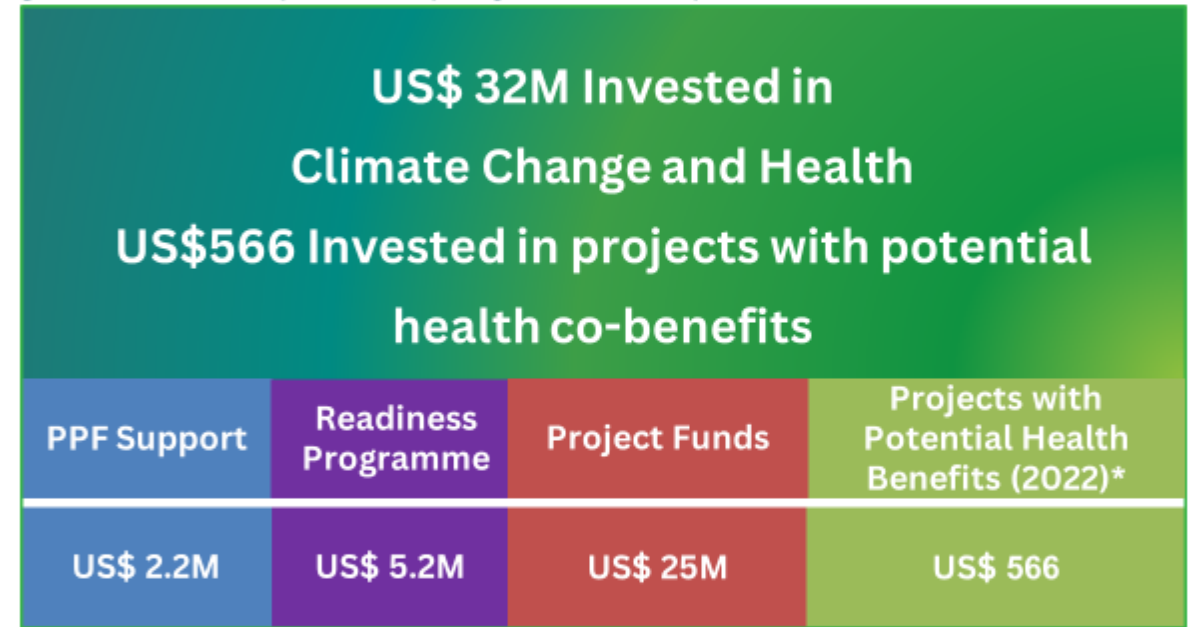
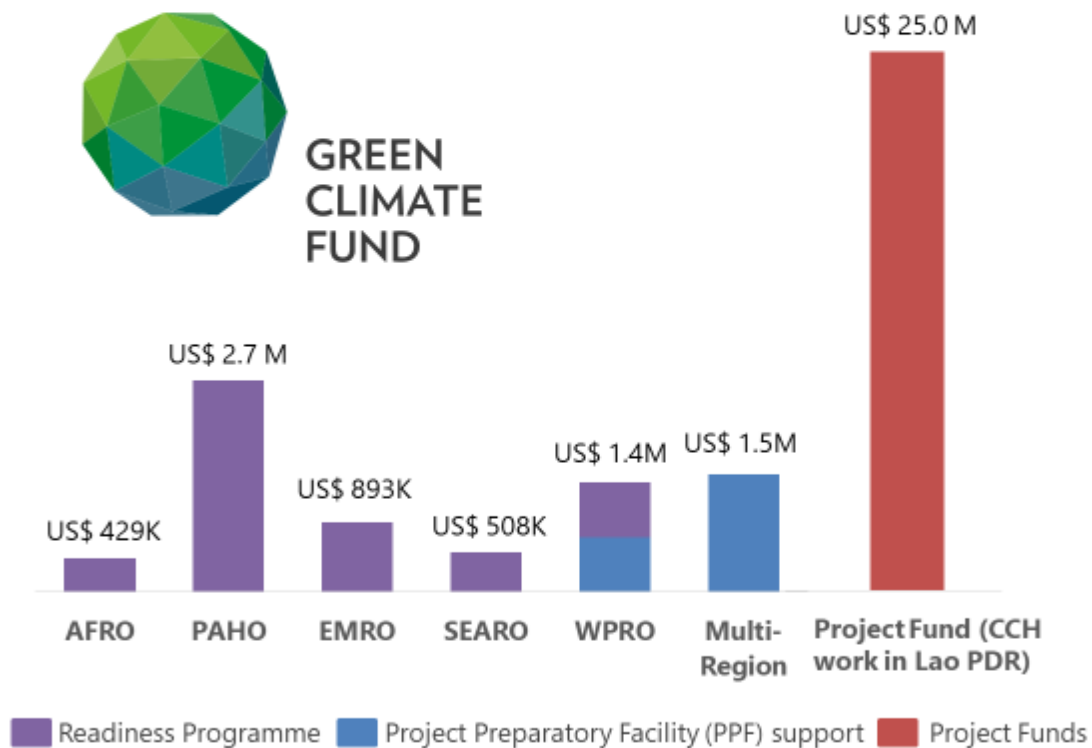
Completed Started Not yet conducted / developed Unknown

Response provided by 78 countries

Data source: 2023/24 ATACH Baseline Questionnaire

Example 1: Green Climate Fund

Investments in climate-resilient and low carbon health systems & adaptation projects with potential health benefits



*15 projects, with 12 focusing on improved water and food security

Data source: 2023/24 ATACH Baseline Questionnaire, 2023 Lancet Countdown

Partner support on CCH implementation



Example 2: Health Care Without Harm

Technical and financial support to CCH country processes



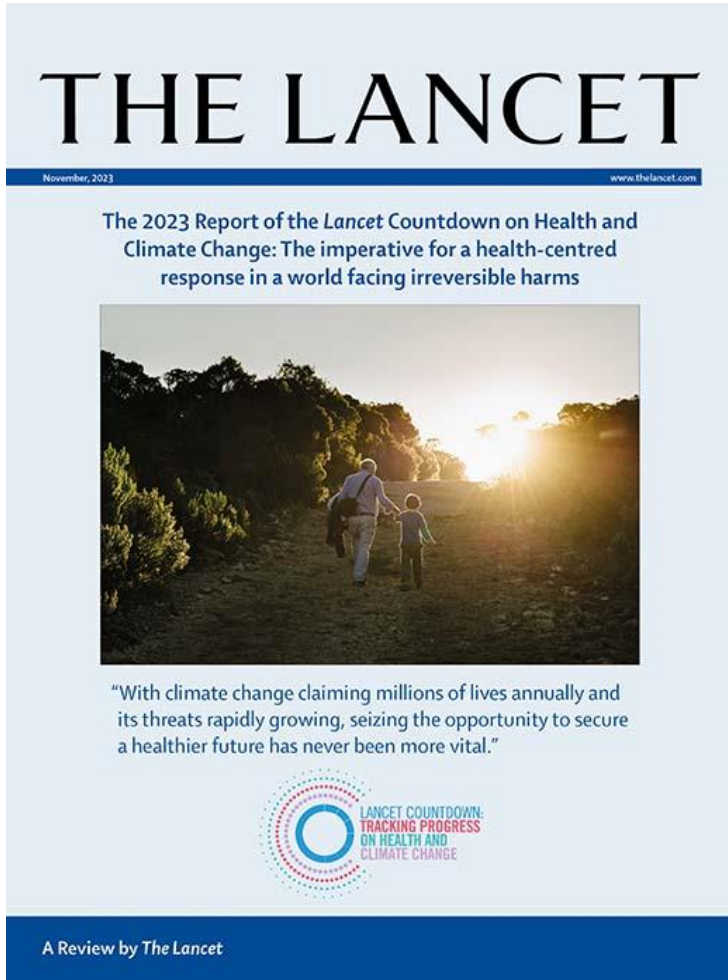
	V&A Assessment	HNAP	GHG Emissions Assessment for Health Systems	GHG Emissions Assessment for Health Facilities	Low-carbon and sustainable health systems action plan*
Belgium			Technical		Technical
Colombia			Technical + Financial		
Ireland			Technical		Technical
Lao PDR				Technical	
Nepal					
Netherlands			Technical		Technical
Peru				Technical + Financial	
Philippines				Technical	
Portugal			Technical		Technical
Timor-Leste	Technical + Financial				

- Planned
- In Progress
- Completed

*In Partnership with Arup

Data source: 2023/24 ATACH Baseline Questionnaire

Partner Initiatives with potential to help measure progress on the attainment of the GGA Health Target



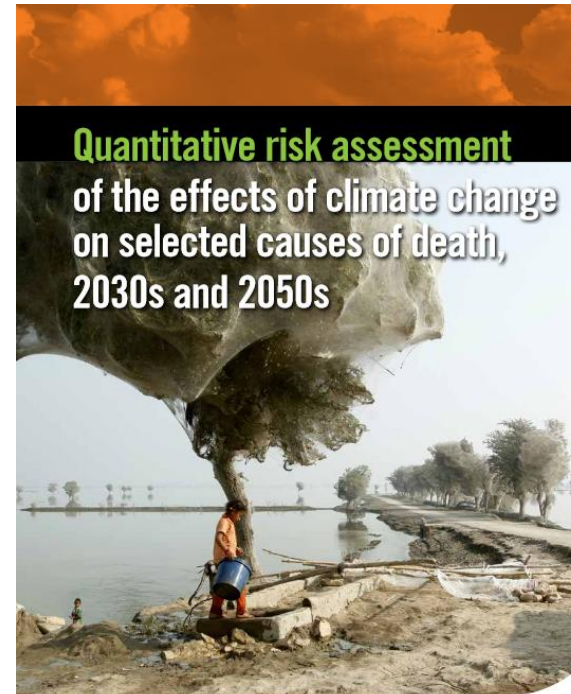
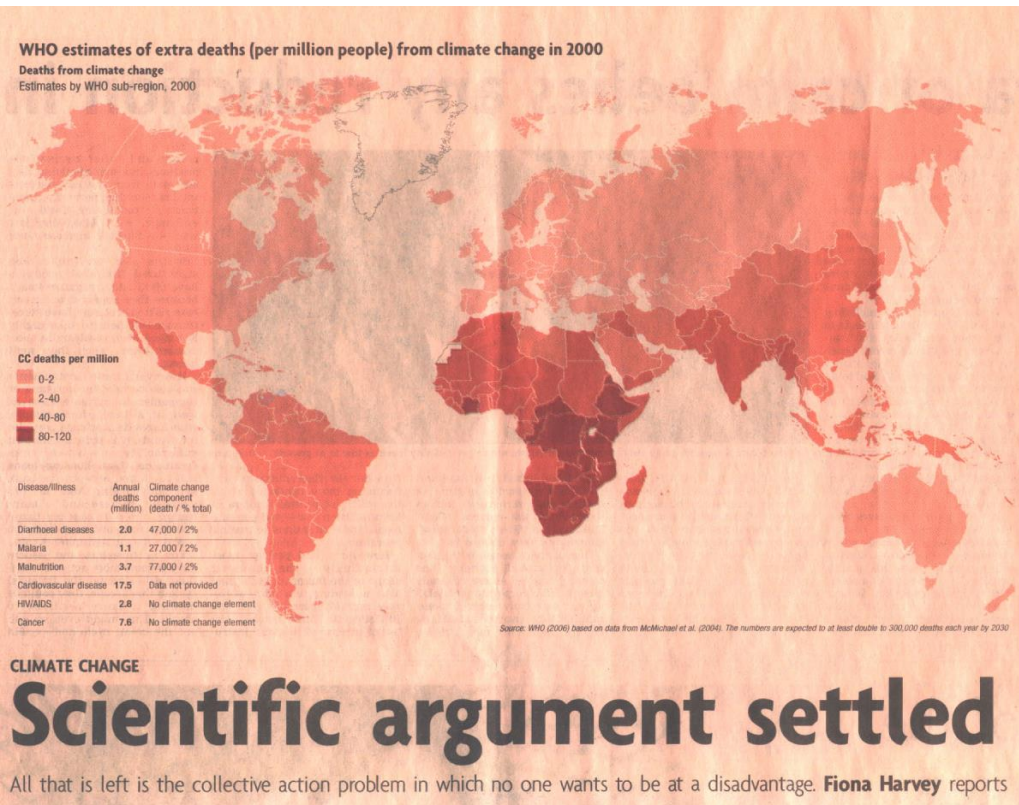
UK Office for National Statistics:
Initiative on strengthening reporting of within National Statistical Agencies

OECD:
Strengthening reporting on climate change and health within OECD countries

And more...

8 annual reports: 47
Indicators, 52 institutions

“..Significantly reducing climate-related morbidity and mortality, particularly in the most vulnerable communities”



HEALTH & CLIMATE CHANGE
COUNTRY PROFILE 2020

Small Island Developing States Initiative



Thank you!



**World Health
Organization**