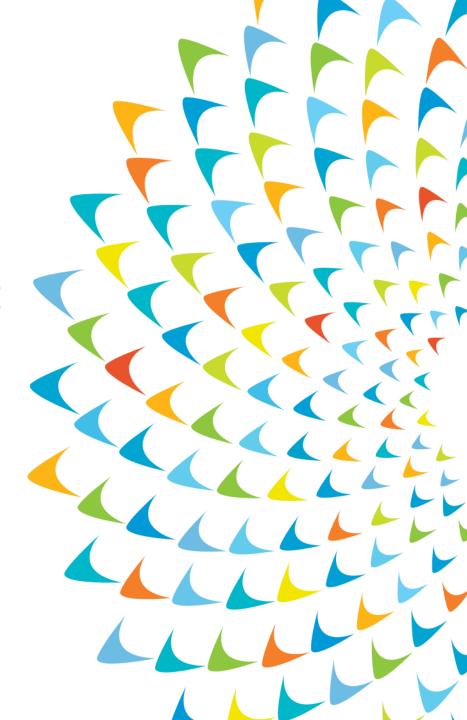


# Climate change is the single biggest health threat facing humanity: What are the proposed actions?

## Dr. Patrick L. Osewe

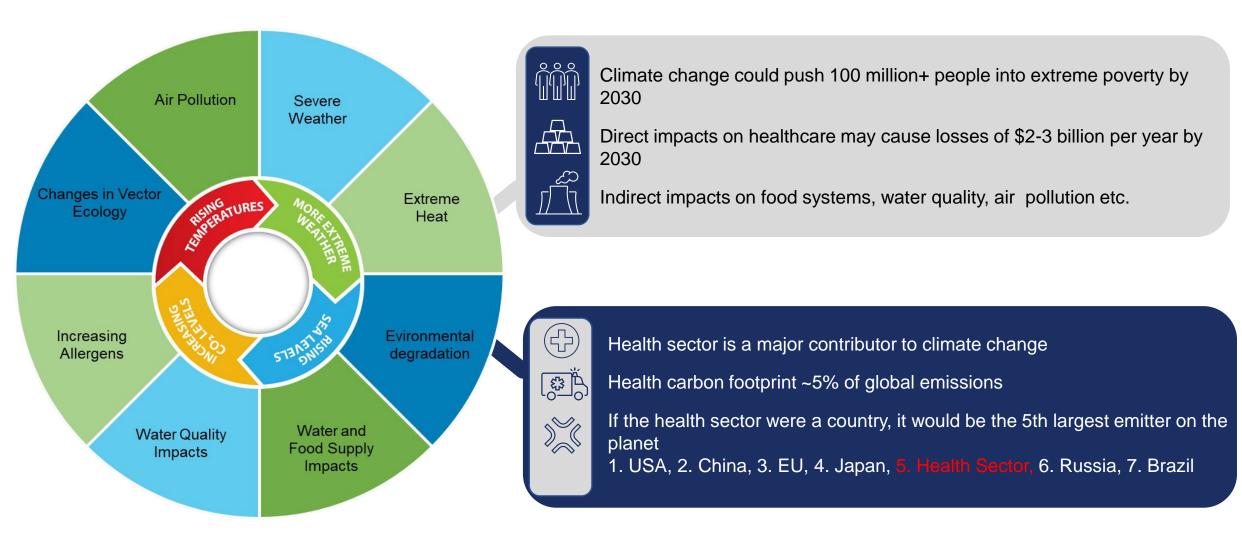
Director for Health, Human Social Development Office, Sectors Group, Asian Development Bank



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- 6. Role of Development Banks in Climate-Health investment
- 7. COP28 Health Day (3 December 2023)

# Overview: Intersection between Climate Change and Health





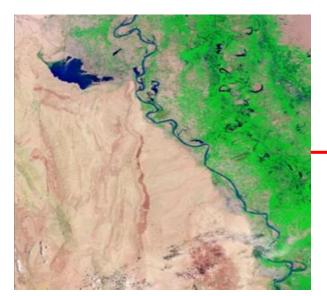
## CLIMATE RESILIENCE ESSENTIAL FOR HEALTH SECTOR

- Health systems are on the front lines of the climate crisis.
- Human and animal health is impacted by:
  - Extreme weather
  - Increasing burden of infectious and noncommunicable diseases
  - Changes to the air, water supplies, and food systems
  - Human migration

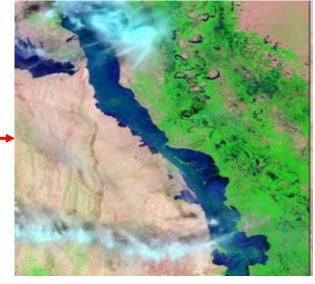


CLIMATE CHANGE IS THE BIGGEST HEALTH THREAT FACING HUMANITY

## PAKISTAN FLOODS (2022) – SINGLE EXTREME WEATHER EVENT



Before floods



After floods

- 33 million+ people affected
- 2,000 health facilities damaged / destroyed
- 5.5 million+ people without access to safe drinking water

#### **Immediate**

- Damage to infrastructure including health facilities
- Lack of clean water supplies
- Lack of sanitation
- Loss of farmland & livestock

#### **Medium Term**

- Water-borne diseases surge
- Disrupted vaccination programs including polio
- Disrupted care for NCDs, longer-term infectious diseases Food insecurity

## **Longer Term**

- Severe malnutrition
- Persistent food insecurity
- Resurgence of Vaccine Preventable Diseases
- Increased NCDs and mental health issues

## **INCREASING BURDEN OF INFECTIOUS DISEASES**

- Health systems are on the front lines of the climate crisis.
- Bangladesh has witnessed the deadliest outbreak of dengue:
  - > 274,444 hospitalizations, 1327 deaths\*
  - More than 2000 cases reported daily
  - ➤ More than 750,000 suspected cases\*\*
  - Climate change with erratic rainfall and

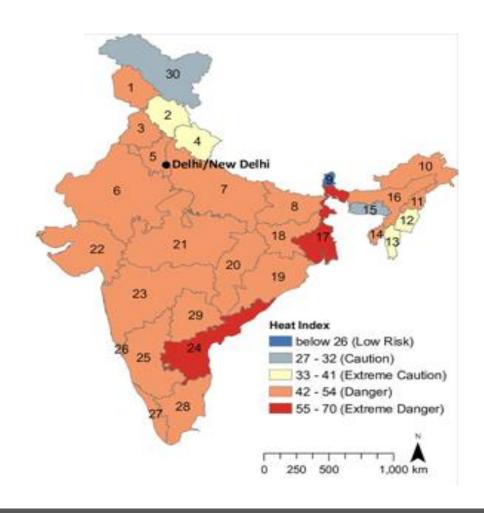
high temperatures fertile breeding for mosquitoes



\*As of 28 October 2023

CLIMATE CHANGE RESPONSIBLE FOR SEASONAL DISEASES BECOMING ENDEMIC

## **HEAT STRESS IN INDIA**

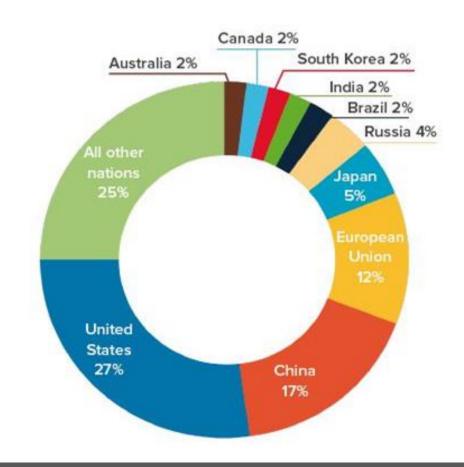


- **24,000+ deaths** due to heat waves since 1992
- Heat waves in India and Pakistan 30 times more likely due to climate change
- One Health impact on:
  - ➤ Heat stress, deaths, longer term cardiovascular and respiratory diseases
  - Increased infections and deaths among animals (livestock and wildlife)
  - Reduced agricultural productivity causing nutrition insecurity

### INDIAN HEATWAVES COULD CROSS THE SURVIVABILITY LIMIT BY 2050

## **CLIMATE FOOTPRINT OF THE HEALTH SECTOR**

- Health sector's climate footprint equivalent to roughly 5% of global net emissions.
- If the health sector were a country, it would be the 5<sup>th</sup> largest emitter on the planet.
- Healthcare climate footprint equal to annual greenhouse gas emissions from 514 coal-fired plants
- 84% of emissions are related to fossil fuel combustion.



71% OF HEALTH SECTOR'S EMISSIONS FROM HEALTHCARE SUPPLY CHAIN, 17% FROM HEALTHCARE FACILITIES, AND 12% FROM PURCHASED ELECTRICITY

# Climate-Health: Need recognized and highlighted by G20

### **G20** Health Minister's Declaration (9/9/2023)

#### **Problem**

Climate change will continue to drive health emergencies, including through:

- the emergence and reemergence of infectious diseases and
- by increasing the severity and frequency of natural disasters
- → thereby threatening to overwhelm health systems' ability to deliver essential health services.

#### Solution

As such, we recognize the need to enhance the resilience of health systems against the impact of climate change.

#### **Approach**

#### We commit to prioritizing:

- Climate-resilient health systems development
- Building sustainable and low-carbon health systems
- Healthcare supply chains that deliver highquality healthcare,
- Mobilize resources for resilient, low-carbon sustainable health systems, and
- Facilitate collaboration, including the WHO-led Alliance for Transformative Action on Climate and Health (ATACH).



## Role of ADB - G20 Leaders Delhi Declaration

# G20 Leader's Communique (9/9/2023)

#### We will:

Enhance the resilience of health systems and support development of climate-resilient and low-carbon health systems in collaboration with MDBs and support the work of the ATACH.

# G20 Climate Change and Health Principles and Actions

- Prioritize climate resilient health development
- Build sustainable and low carbon health systems
- Decarbonize the healthcare supply chain
- Mobilize finance for resilient, low-carbon, sustainable health and climate systems
- Facilitate collaboration on human, animal, and climate-health challenges

#### **Climate and Health Initiative**

#### **MISSION**

Consolidate, streamline, and amplify policies and practice on the intersection of climate change and health

- Knowledge generation
- Novel Financing
- Forging Partnerships
- Incubating Innovation
- Capacity Building
- Championing Advocacy







ADB Thought Leadership

**ADB Defined Approach** 

ADB administered response



# Climate and Health Initiative (CHI) Overview

#### **MISSION**

Consolidate, streamline, and amplify policies and practice on the intersection of climate change and health

#### **VISION**

Coherent global efforts to scale up commitments and investments on climate and health

Inclusive & diverse membership

Tiered structure and phased approach

Digital apporach across functions

Bureaucracy light through hub-and-spoke model



**Knowledge Generation** 



**Novel Financing** 



**Forging Partnerships** 



**Incubating Innovations** 



**Capacity Building** 



**Championing Advocacy** 



# **G20 Climate and Health Principles and Actions**



Prioritize climate resilient health development



- Early Warning Systems
- Disease and climate sensitive surveillance systems
- Resilience to heat stress and air pollution



Build sustainable and low carbon health systems



- Telemedicine and digital healthcare
- Solarisation
- Electric Fleet
- Green
   Infrastructure
- Green Bio Waste Management



Decarbonize the healthcare supply chain



- Energy efficient manufacturing solutions
- Strengthening National Regulator to set emission standards



Mobilize finance for resilient, low-carbon, sustainable health and climate systems



- Health Financing
- Catalyze novel financing mechanisms
- Incubate innovations
- Blended financing
- Scalable pilots

Facilitate collaboration on human, animal, and climate-health challenges



- Strengthening Animal Health Preparedness
- One Health Surveillances Units
- Data

   Interoperability
   Upgrading
   Diseases Control
   Centers

Workforce capacity building on climate and health interplay



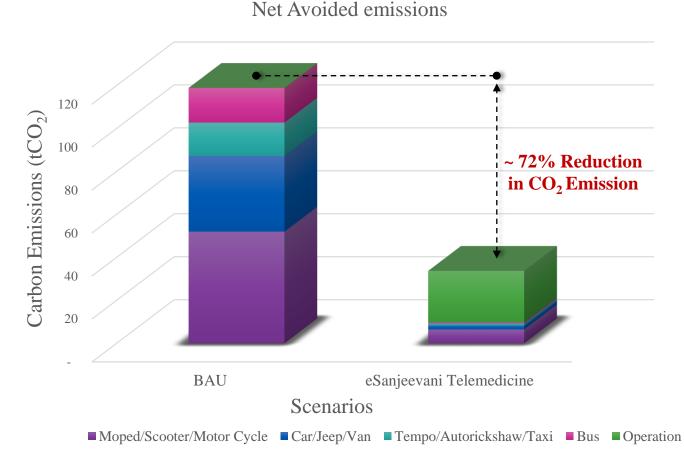
# **Telemedicine Study Findings**

Net **Avoided Emissions** from Apr 2022 to March 2023 for 619,598 e-Sanjeevani telemedicine consultations in Jharkhand

Telemedicine results in

~ 72% reduction in CO<sub>2</sub>
emission as compared to BAU
scenario

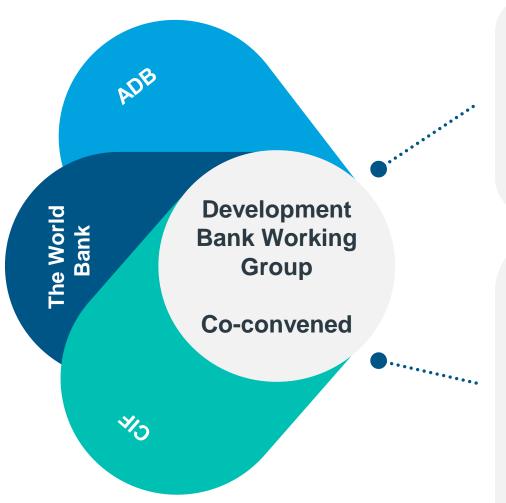
**85 tonnes CO<sub>2</sub>** emissions avoided in comparison to Business-as-usual







# Role of Development Banks in Climate-Health investment



## ADB lead in key DB climate-health financing



- Shared investment framework for climate and health;
- Better application of joint MDB methodology for calculating climate investment allocations to health sector;
- Pipeline co-investment opportunities for climate and health

## jDBWG on climate-health financing membership



- World Bank, including the International Finance Corporation (IFC)
- The Climate Investment Funds (CIF)
- Asian Development Bank (ADB)
- Inter-American Development Bank (IADB)
- European Bank for Reconstruction and Development (EBRD)
- Asian Infrastructure Investment Bank (AIIB)
- European Investment Bank (EIB)
- KfW Development Bank
- Finance in Common Coalition for Social Investment (AFD+)







# COP28 Health Day (3 December 2023)

- COP 28 Health Declaration Health Ministers' first-ever declaration on Climate Change and Health
- ADB Roundtable featuring G20 initiatives, inc'l Climate Health Initiative
- Climate and Health Finance Roundtable Joint Development Banks statement & action plan for climate-health investment framework
- Multi-stakeholder Roundtable Shared vision statement for climate-health financing
- ADB side event on Climate and Health Walk the talk!
- Other 25+ Climate-Health events to announce new schemes/networks...etc.





## **Climate Change and Health:**

- Climate Change and our Health (ADB Episode with WHO): https://youtu.be/CA8iTY7iMCk?si=lr0fFqpZdnOYNOyQ
- Accounting for Health Impacts of Climate Change: <a href="https://www.adb.org/publications/accounting-health-impacts-climate-change">https://www.adb.org/publications/accounting-health-impacts-climate-change</a>
- COP28 Health Day: <a href="https://www.cop28.com/en/health-events">https://www.cop28.com/en/health-events</a>
- ClimateXHealth Coalition: <a href="https://www.climatexhealth.org/">https://www.climatexhealth.org/</a>
- Climate and Health Alliance: <a href="https://climateandhealthalliance.org/">https://climateandhealthalliance.org/</a>

