



## Project: AI in Climate Change and its Impact on Health

Support Partner: Qaff Africa and ZMQ Development

**About the Program:** In Montreal, developed Climate-X-Health (AI for Climate Change program for Health) for Africa:

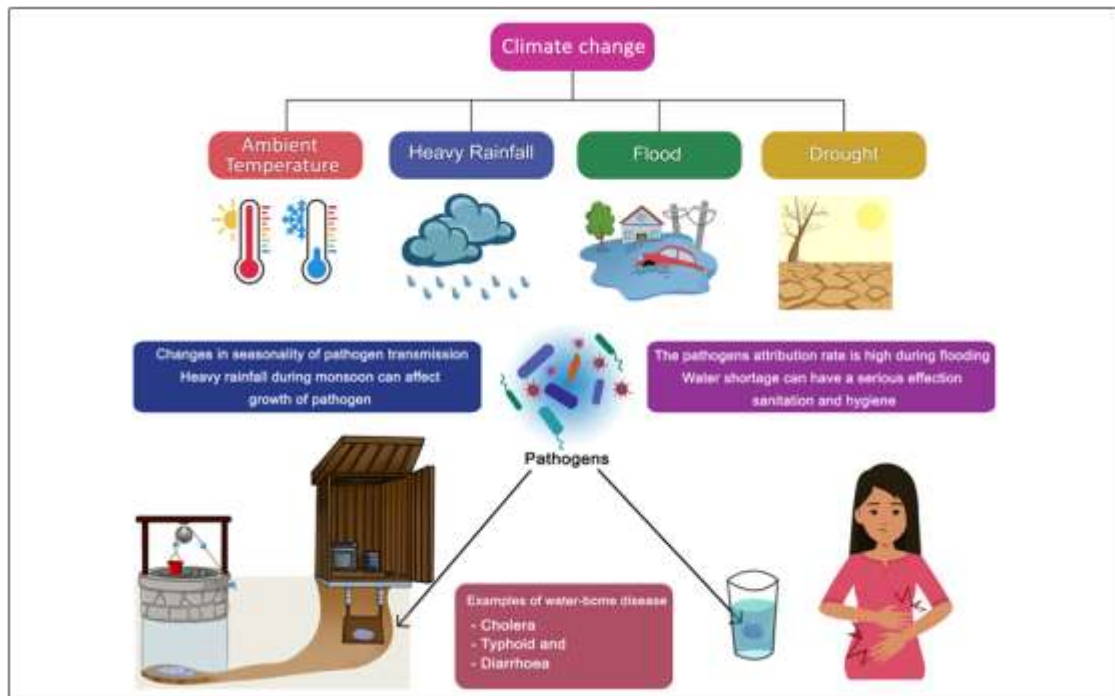
Summary:

Climate-X Health (C-XH) project: In urban slums in Uganda and India aims to strengthen epidemiological preparedness against climate-sensitive health risks. Using an AI-powered Slum C-XH Surveillance System, trained Climate-X Agents will collect micro-climate (temperature, humidity, water quality) and health data (disease symptoms, vector breeding sites, sanitation vulnerabilities). AI models will predict outbreaks and guide early warnings, integrating community participation with municipal and health systems. The initiative is designed to be scalable to other high-risk urban settlements



## Outputs:

The project will establish an AI-powered Slum C-XH Surveillance System linked to 5 PHCs and Thane Municipal dashboards. 100 Climate-X Agents and 50 Climate Awareness Activists will cover ~300,000 residents across ~60,000 households, collecting daily micro-climate and health data. AI models will generate early warning alerts, while 50-75 community sessions will raise awareness among ~100,000 residents.



### Outcomes:

The system will enable early detection of 80–90% of climate-sensitive disease cases (dengue, malaria, diarrhoea, chikungunya, leptospirosis). Community and municipal preparedness will improve through daily reporting and data integration across 5 PHCs, while 150 trained agents will strengthen local capacity and conduct awareness campaigns reaching ~100,000 residents.



## Impact:

The initiative will reduce disease burden and mortality among ~300,000 slum residents, empower communities to manage climate-health risks, and provide a scalable AI-driven surveillance model for other urban slums. Data visibility for ~60,000 households will improve, enabling coordinated preventive action between communities and municipal health systems.

