

# CLARE

**C**limate **A**daptation and **R**esilience (**CLARE**) is a framework research programme championing Southern leadership in Africa and the Asia-Pacific.



# Impacts in numbers

CLARE work ensures research is led by and designed for those most affected by climate change.

## SOUTHERN-LED SOLUTIONS

51

solutions co-developed with 5,000+ individuals



## GLOBAL NETWORK

170+

partners generating evidence to support adaptation on the ground



## KNOWLEDGE GENERATION

107

outputs, including 32 peer-reviewed publications



## STRENGTHENING CAPACITY

11,500+

engaged in capacity strengthening activities



# Bridging science and action for climate solutions by prioritising:

## EQUITABLE CO-CREATION



Generating deep insights into lived experiences to deliver more effective, inclusive, and socially just evidence.

## SOUTHERN LEADERSHIP



Supporting demand-driven, user-centred climate research led by institutions across Africa and the Asia-Pacific.

## ACTIONABLE EVIDENCE



Translating complex climate science into practical tools for governments, the private sector, and local communities.

## ENHANCING EXPERTISE



Enhancing the expertise of both the scientists producing knowledge and the decision-makers using it to ensure long-term legacy and sustainability.

# CLARE research connects immediate priorities with long-term goals by working across three interlinked themes:

## UNDERSTANDING CLIMATE RISK



Addressing critical gaps in climate science to better model and analyse the risks posed by extreme weather and natural hazards.

## RISK-INFORMED EARLY ACTION



Strengthening anticipatory actions to mitigate the effects of climate hazards and protect lives, livelihoods, and humanitarian outcomes.

## DEVELOPING IN A CHANGING CLIMATE



Driving long-term, sustainable, and equitable growth by integrating climate resilience into economic and social development strategies.

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# IMPACT

CLARE research shapes policies, provides tools, builds capacity and increases people's resilience.



## INFLUENCING POLICY



Adaptation strategies Integrated into **20** government plans and policies to enhance climate resilient pathways.

## ACTIONABLE SOLUTIONS



**51** climate solutions developed and tested, of which **17** are already being used across **60** organisations and local communities.

## CAPACITIES STRENGTHENED



Delivered **200+** capacity-building activities to **11,500** participants across **45** countries.

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## POLICY IMPACT

CLARE has influenced 20 government plans, policies and strategies to better integrate adaptation or improve climate resilient pathways.

Evidence from its research has contributed to labour migration policy, UN EW4All priorities, municipal disaster risk management programmes, and international climate negotiations.



# CLARE Policy Impact Evidence

Evidence from CLARE's research has contributed to labour migration policy, UN Early Warnings for All priorities, municipal disaster risk management programmes, and international climate negotiations.

## RWANDA'S NATIONALLY DETERMINED CONTRIBUTION



Evidence on economic impact of climate shocks, by **ECONOGENESIS**, informed Rwanda's draft third Nationally Determined Contribution (NDC) and was used in the Loss and Damage Chapter.

## NEPAL'S NATIONAL LABOUR MIGRATION POLICY



Draft National Labour Migration Policy in Nepal, with evidence from **SUCCESS**, recognises impacts from climate change at labour migration stages, with recommendations for supportive actions.

## UN EARLY WARNINGS FOR ALL ENDORSEMENT



Evidence from **REPRESA** on the benefits of impact-based forecasting received official endorsement from the UN Early Warnings for All (EW4All) initiative, which led to the incorporation of impact-based forecasting into EW4All priorities.

# Bhutan's policy path to curb climate migration





# Bhutan's policy path to curb climate migration



## THE IMPACT

Evidence from SUCCESS informed a landmark report on fallow land and absentee households approved by Bhutan's National Council, recommending new policies to deal with out-migration, such as a fallow land bank and youth support packages.

SUCCESS insights were also integrated into Bhutan's 13th Five-Year Plan, providing a strategic framework for addressing climate-related issues in long-term planning.

# Bhutan's policy path to curb climate migration



## WHY IT MATTERS

Drying water sources and erratic rainfall are undermining agricultural sustainability, forcing farmers, particularly women and marginalised groups, to abandon farmlands.

This rural outmigration creates complex socio-economic and ecological challenges that require SUCCESS's systems-thinking approach.



# Bhutan's policy path to curb climate migration



## CLARE CATALYST

By facilitating a learning exchange between Bhutanese and Nepalese parliamentarians, SUCCESS supported an evidence-based migration policy model that is scalable for other mountainous regions facing similar climate pressures.

The research advances global knowledge on the causes, impacts and policy responses to people's mobility that is compounded by climate change.

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# ADAPTATION SOLUTIONS IMPACT

CLARE-supported research has led to more than 50 climate adaptation solutions, including data, technologies, models, and approaches. Seventeen of these have already been used by over 60 organizations and communities.

Evidence from its research has contributed to AI-based forecasting tools, gender-responsive methodologies, and participatory water management models.



# CLARE Adaptation Solutions Developed

Evidence from CLARE's research has contributed to AI-based forecasting tools, gender-responsive methodologies, and participatory water management models.

## 3MAP



A GIS-based framework, developed by **BIMA**, that enhances drought monitoring and response through localised, data-driven decision-making.

## ADAPTATION GAP DATABASE



Designed by **ECONOGENESIS** to inform global climate finance negotiations and supports the UNFCCC Global Stocktake.

## AI FLOOD INUNDATION PREDICTION MODEL



Integrating satellite data and advanced simulations, the **INFLOW** model supports anticipatory action in South Sudan and is used by a national Flood Task Force and Technical Working Group.

# CLARE Adaptation Solutions Developed

Evidence from CLARE's research has contributed to AI-based forecasting tools, gender-responsive methodologies, and participatory water management models.

## DIGITAL PLATFORM FOR WOMEN FARMERS



Developed by WOSFER to offer weather information and agricultural advisories to enhance climate resilience for women smallholder farmers in Uganda.

## LOCALISED FORECASTING SYSTEM



Combining AI and community knowledge, SURF-IT's tool improves tidal surge and cyclone preparedness information in coastal Bangladesh.

## LADDER-BASED LAKE RESTORATION



CLARITY's approach reduces groundwater overexploitation and involves local communities in water conservation efforts in Tanzania.

CLARE Adaptation Solutions Developed

# Community-led, AI-driven forecasting





# Community-led, AI-driven forecasting



## THE IMPACT

When Cyclone Remal struck coastal Bangladesh in 2024, the **SURF-IT** AI-driven forecasting model protected over 200 households and their assets.

By predicting embankment breach points before landfall, the system allowed communities to take targeted action.



# Community-led, AI-driven forecasting



## WHY IT MATTERS

Bangladesh faces an average of five cyclones annually. Remal alone affected 4.6 million people. Turning general weather alerts into localised, impact-based forecasting can mean the difference between resilience and catastrophe.



CLARE Adaptation Solutions Developed

# Community-led, AI-driven forecasting



## CLARE CATALYST

The SURF-IT model's success not only bolsters community resilience but provides a scalable blueprint for protecting at-risk coastal regions worldwide through community-led, technology-backed interventions.



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# CAPACITY STRENGTHENING

CLARE has delivered over 200 capacity strengthening activities, involving 11,500 participants in 45 countries, since 2023. These activities also consider the embedded/implicit capacity strengthening made possible through transdisciplinary collaboration.

Evidence from CLARE demonstrates that building transdisciplinary collaboration can enhance the ability of local actors to design and implement effective adaptation solutions.



# CLARE Capacity Strengthening Evidence

Evidence from CLARE demonstrates that building transdisciplinary collaboration can enhance the ability of local actors to design and implement effective adaptation solutions.

## EQUITABLE GLOBAL ASSESSMENTS



**Inclusive SRCities** bridges gaps in equity and representation in global processes by recruiting seven early-career urban adaptation experts from the Global South as Chapter Scientists for the IPCC seventh assessment cycle (AR7).

## ENHANCED EMERGENCY RESPONSE



Enhanced Emergency Response Training activities in four countries, led by the **ARA**, increased emergency response coordination across actors, and improved understanding among youth and communities on how to act swiftly when early warnings are issued.

## RESILIENT FINANCIAL SYSTEMS



Knowledge sharing, facilitated by the **R4I Opportunities Fund** between the Central Bank of Uganda and local scientists enables the bank to make better manage climate-related financial risks, supporting a more resilient and sustainable financial sector in Uganda.

# Community-Led Water Management in Tanzania



# Community-Led Water Management in Tanzania



## THE IMPACT

**CLARITY** trained professional and community hydrologists in Dodoma, Tanzania, to map and collect critical data on borehole locations and water levels.

The Wami Ruvu Basin Water Board is now utilising this data to inform sustainable water extraction practices and manage regional resources more effectively.

# Community-Led Water Management in Tanzania



## WHY IT MATTERS

As a semi-arid region with no permanent surface water, Dodoma, a city of 800,000 residents, faces significant freshwater challenges.

CLARITY developed the capacity necessary to analyse water use needs, providing localised data that communities and institutions require for informed, climate-resilient decision-making.



# Community-Led Water Management in Tanzania



## CLARE CATALYST

By training professionals in specialised techniques and increasing the agency of community hydrologists, the CLARITY supports resilient, locally driven water management across the city.

The research advances global knowledge on effective responses to aquifer depletion like those in Dodoma and how to manage this type of catchment sustainably.

# CREDITS

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## PHOTOGRAPHS

Fisherman: CLARE  
Conference: CLARE  
Soil scientist: Georgina Smith / CIAT  
Community discussion: CLARE  
Drought in rice field: Noer Cungkring / Getty Images  
Palm trees in wind: Debararr / Getty Images Pro  
Urban community garden: georgeclerk / Getty Images  
Signature  
Lush valley: Jitendra Raj Bajracharya / CIMOD  
Drip irrigation: Peppermint / Getty Images  
Dancing women: CLARE  
Table discussion: CLARE  
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Myanmar Cyclone Mocha relief: UN EW4ALL visual assets  
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Bhutan mother and child: alantobey / Getty Images Signature  
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Rural fishing: masudar rahman / Pexels  
Drone: SURF-IT  
Group notetaking: CLARE  
Ghana early warning: Adelina Mensah  
Bicyclists: Frostee Lens Ug / Pexels  
Water testing in Tanzania: CLARE  
Tanzanian farmer: Peter Chilumba / Pexels  
Hands under tap: Kelly / Pexels

## VIDEOS

Boats in canal: Storyblocks  
Woman with maize: Storyblocks  
Women in market: Storyblocks  
Bhutan farmland: Storyblocks  
Drip irrigation: Storyblocks  
Bangladesh flood: Storyblocks  
Banana field: Storyblocks  
Borehole digging: Blackbox

## DESIGN

Tali Hoffman  
*Honeyguide Strategic Communication*

