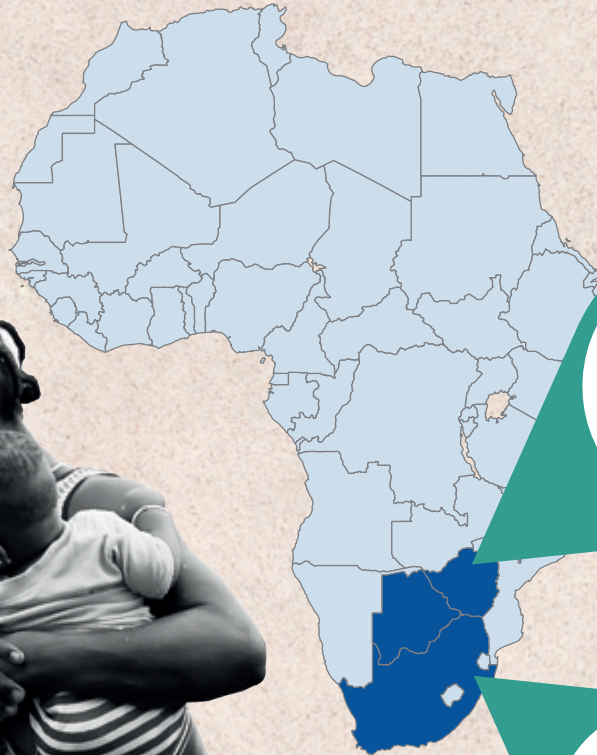


# SOCIAL, ENVIRONMENT AND CLIMATE CHANGE IMPACTS ON VECTOR-BORNE DISEASES IN ARID AREAS OF SOUTHERN AFRICA



## THE SITES

Botswana: Shakawe and Ngarange villages of the Ngamiland district;  
Zimbabwe: Buvuma, Ntalale and Selonga villages of the Gwanda District

## THE SITE

South Africa: uMgedula, Ndumo, Makhansi villages in the uMkhanyakude District (KwaZulu-Natal province)

# PROJECT A

# SOCIAL, ENVIRONMENT AND CLIMATE CHANGE IMPACTS ON VECTOR-BORNE DISEASES IN ARID AREAS OF SOUTHERN AFRICA

**THE AIM**  
 To improve understanding of how malaria and schistosomiasis are affected by climate and other variables, and to enhance resilience to future changes.

## SEVERAL FACTORS:



SOCIOECONOMIC



ENVIRONMENTAL



CLIMATE



BIONOMIC



INSTITUTIONAL

CAN CONTRIBUTE TO

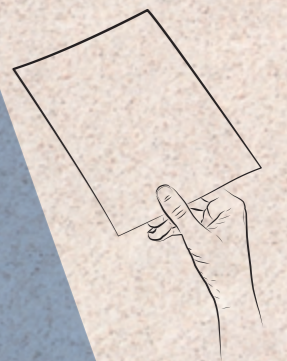
**THE DISEASES:**  
 Malaria and schistosomiasis

THE PERSISTENCE OF VECTOR-BORNE DISEASE TRANSMISSION AND VULNERABILITY TO CLIMATE CHANGE IMPACTS

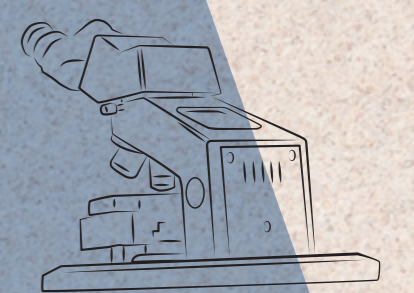


## OUTPUTS INCLUDE:

**STRATEGIES FOR COMMUNITY RESILIENCE**



**CAPACITY BUILDING FOR RESEARCH**



## RESEARCH APPROACHES INCLUDE:



Workshops and group discussions to learn from and with community members



Interviews with key informants (e.g. policy makers, traditional leaders, health personnel)



Lab and field studies of vector viability under different conditions



Determining vector variations across different climatic zones, by using GIS and remote sensing



Modeling future impact scenarios and feeding results into National Adaptation Plans



## THE INSTITUTIONS INVOLVED IN THE PROJECT ARE:

College of Health Sciences, University of Kwazulu-Natal  
**Durban, South Africa**

[www.chs.ukzn.ac.za](http://www.chs.ukzn.ac.za)

University of Copenhagen  
**Copenhagen, Denmark**

[www.ku.dk](http://www.ku.dk)

Okavango Research Institute, University of Botswana  
**Maun, Botswana**

[www.orc.ub.bw](http://www.orc.ub.bw)

National University of Science and Technology  
**Bulawayo, Zimbabwe**

[www.nust.ac.zw](http://www.nust.ac.zw)

College of Health Sciences, University of Zimbabwe  
**Harare, Zimbabwe**

[www.uz.ac.zw](http://www.uz.ac.zw)



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