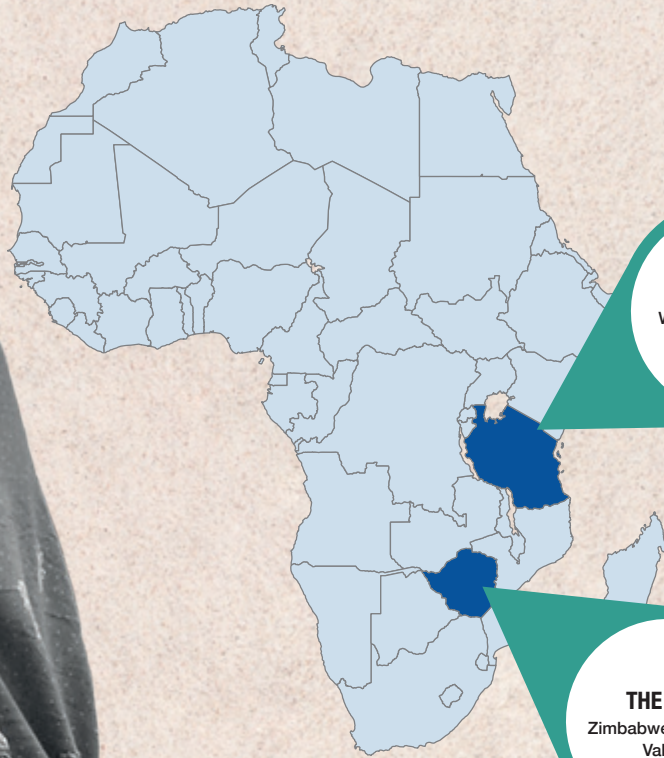


TRYPANOSOMIASIS: ALLEVIATING THE EFFECTS OF CLIMATE CHANGE THROUGH UNDERSTANDING HUMAN-VECTOR-PARASITE INTERACTIONS



THE SITE

Tanzania:
Western side of the
Serengeti
National Park.

THE SITE

Zimbabwe: Zambezi
Valley.

PROJECT D

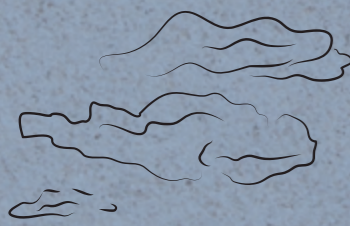
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THE AIM
 To assess risks of trypanosomiasis infection for marginalised communities in Tanzania, to monitor trypanosomiasis in livestock in marginalised communities in Zimbabwe and to find ways of alleviating infection risks in both countries.

THE DISEASE:
 Trypanosomiasis



SEVERAL FACTORS:



CLIMATIC CONDITIONS SUCH AS RAINFALL & TEMPERATURE



POPULATION GROWTH & AGRICULTURAL ENCROACHMENT



TSETSE DISTRIBUTION, BEHAVIOUR & HOST DENSITY

CAN INFLUENCE



HUMAN-TSETSE INTERACTION AND VULNERABILITY TO DISEASE
 AMONG DRYLAND POPULATIONS



PLANNED

OUTPUTS INCLUDE:



EVIDENCE ON ESTIMATED AND PERCEIVED RISKS
 IN MARGINALISED COMMUNITIES



MAPPING THE LEVELS OF LIVESTOCK INFECTION AND THE HEALTH IMPLICATIONS



AN UNDERSTANDING OF FUTURE RISKS
 AND HOW THESE CAN BE AVOIDED OR ALLEVIATED

RESEARCH APPROACHES INCLUDE:



Questionnaires, interviews and focus group discussions



A variety of entomological techniques for indoor and outdoor vector research



Data collection on *T. brucei* infections in cattle



Experiments to measure man-fly contact under different meteorological conditions



Climate-driven modeling of vector dynamics



THE INSTITUTIONS INVOLVED IN THE PROJECT ARE:

The South African Centre for Epidemiological Modelling and Analysis (SACEMA)

Stellenbosch, South Africa

www.sacema.org

Tsetse Control Division, Ministry of Agriculture, Zimbabwe

Harare, Zimbabwe

www.mao.gov.zw

Liverpool School of Tropical Medicine (LSTM)

Liverpool, UK

www.lstmliverpool.ac.uk

The Climate System Analysis Group (CSAG), University of Cape Town

Cape Town, South Africa

www.csag.uct.ac.za

Vector & Vector-borne Diseases Research Institute (VBDI)

Tanga, Tanzania

Bindura University of Science Education (BUSE)

Bindura, Zimbabwe

<http://buse.ac.zw>

The Natural Resources Institute (NRI) of the University of Greenwich

Chatham, UK

www.nri.org

Sokoine University of Agriculture

Morogoro, Tanzania

www.suanet.ac.tz

