

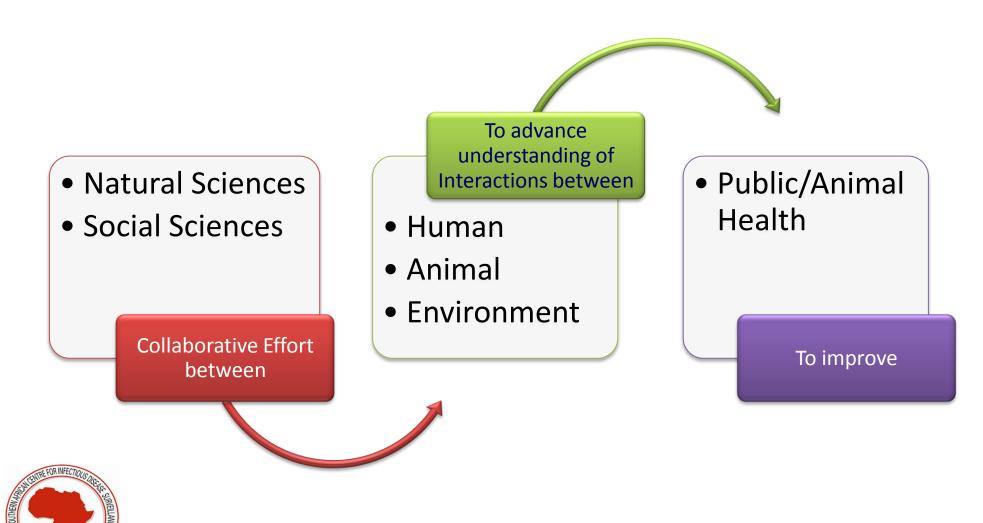
SOUTHERN AFRICAN CENTRE FOR INFECTIOUS DISEASE SURVEILLANCE

TOWARDS SACIDS as a REGIONAL ONE HEALTH FORUM & RESEARCH PLATFORM

Key Achievements 2008 to May 2014

Mark Rweyemamu , Executive Director, SACIDS Sokoine University of Agriculture, Morogoro, Tanzania

THE SACIDS CONCEPTUAL FRAMEWORK IS A One Health Focus on Infectious Diseases:



SACIDS Theory of Change



 Virtual Centre concept as more cost effective than single physical centre for studying IDs in Africa

- Theme-based Programmes for a faster impact on capacity than isolated projects
- Community of Practice approach to enhance quality of supervision, mentorship and research collaboration across institutions, sectors, borders, projects and themes

- Smart Partnership with centres of research and training excellence in industrialised countries
- NatCIDS (National virtual centres for infectious diseases) to enhance influence at institutional and national levels



SACIDS – Smart Partnership

Collaboration







- Management
 - Management Board
 - SACIDS Executive Board
 - Independent Scientific Advisory Board

The 2014 – 2020 Programmatic Structure of the SACIDS



RESEARCH & TRAINING
Member Institutions

SECRETARIAT & NatCIDS & SMART PARTNERSHIP

RESEARCH & TRAINING
Member Institutions

TRAINING

(Paul Gwakisa)

BACTERIAL ZOONOSES (incl AMR)

(Mecky Matee)

RESEARCH MANAGEMENT

(Filomena Namuba)

COORDINATION
PLANNING
M & E

COMMUNICATIONS, ADVOCACY & FORUM

FOOD SECURITY VIRAL DISEASES

(Christopher Kasanga)

EMERGING & VECTOR-BORNE DISEASES

(Janusz Paweska)

ONE HEALTH SCIENCES

(Esron Karimuribo)

















IDRC * CRDI

Foresight



















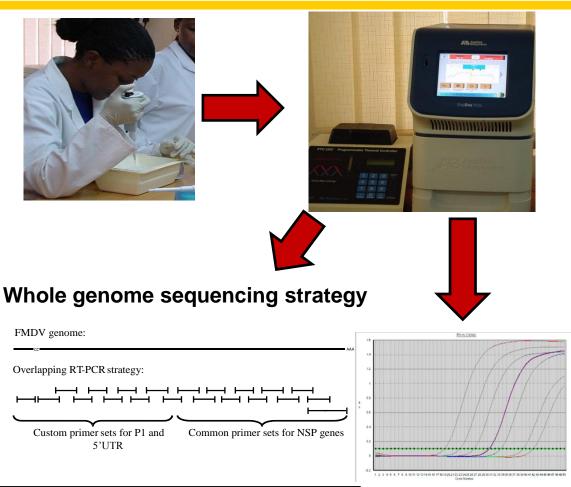


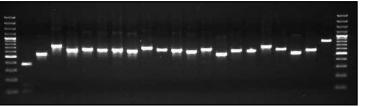
Key Achievement: Food Security Viral Diseases CoP



- •FMDV serotypes and topotypes/genotypes in Southern Africa
- Novel FMDV genotypes/topotypes in Marromeu-Mozambique National Park buffalo
- •Risk Modelling of FMD outbreaks in Zambia and Tanzania
- •Two genetic lineages of *Peste des Petits Ruminants* (PPR)Virus in DRC and Tanzania (i.e. risk to southern Africa)
- •Two lineages of African swine fever (ASF) Virus in Tanzania

SACIDS Molecular biology platform







Key Achievement: Bacterial Zoonoses CoP

- Novel topotype of Mycobact bovis at wildlife-livestockhuman interface in Serengeti ecosystem
- First isolation and sequencing of *Yersinia pestis* in Zambia and Tanzania
- Prevalence of anti-microbial resistance rising in SACIDS countries
- An engaging research platform with South Africa and UK



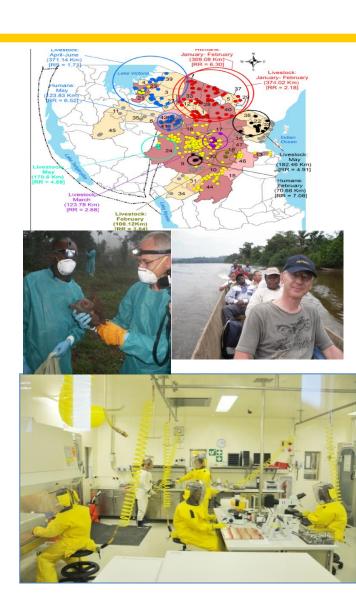
Genotyping Bovine Tb at Stellenbosch – Tanzania, Zambia and Zimbabwe young researchers with Prof Paul van Helden



Key achievement: Emerging & Vector-borne Diseases CoP

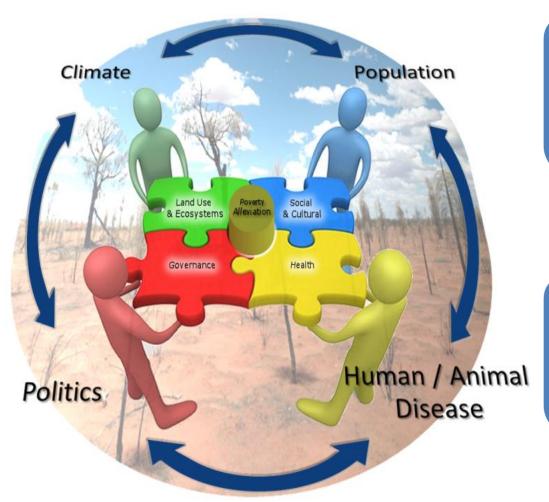
- Risk modelling Rift Valley fever outbreaks since 1930s
- Several risk factors identified (see Poster)
- Viral activity in Western Rift but no recent outbreaks in Tanzania, Mozambique and Zambia
- Ecology of Ebola/Marburg in DRC
- Diagnostics for Ebola/Marburg

A biosafety platform with BSL-3 facility in each participating country plus BSL-4 at NICD, South Africa





SACIDS Ecohealth strategy



Assess the effects of economic, socio-cultural and environmental transformations on health

Explore different communityengagement approaches in protecting the ecosystems e.g. CR, IT tech

SACIDS first venture into integrative research

PRODUCTION OF RADIO PROGRAMMES IN NGORONGORO





Interview with Mr.Miran from the Vet. Department in Ngorongoro District



Interview with Mama Ndoinyo in Ololosokwani



Interview with Mama Timani in Waso



Interview in Soitsambu



Interview in Arash



Interview with Mzee Daniel in Ololosokwani



SACIDS sponsored MSc. Student Mpoki Mwabukusi



The IDRC-funded Project team during live broadcast in the Loliondo FM studios



Loliondo FM's Radio Journalist, Joseph Munga interviewing the Team

Mobile Technologies for OH Disease Surveillance



☐ Piloted system – Mobile technologies



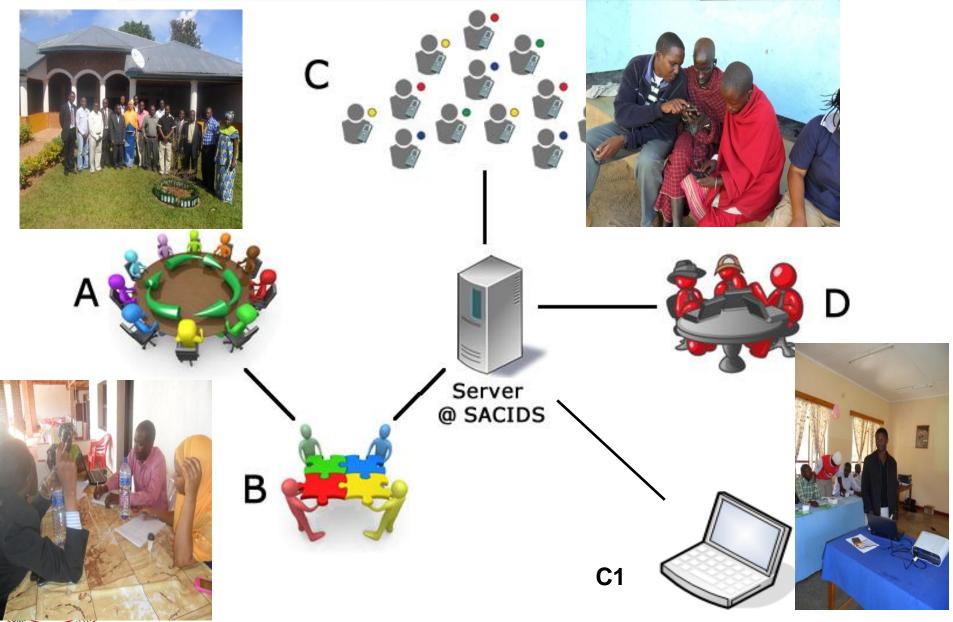
Takes less than 3 minutes to reach the database





Participatory Planning, training, mobile Tech

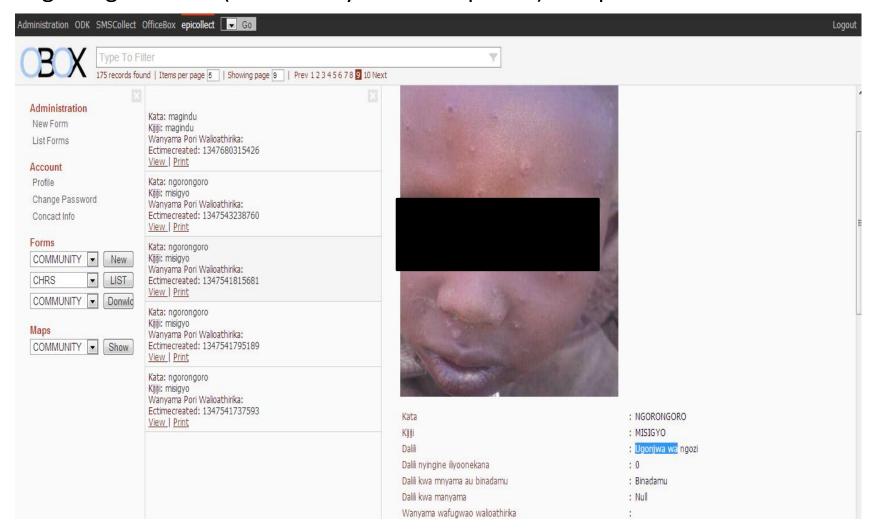




Web-Interface

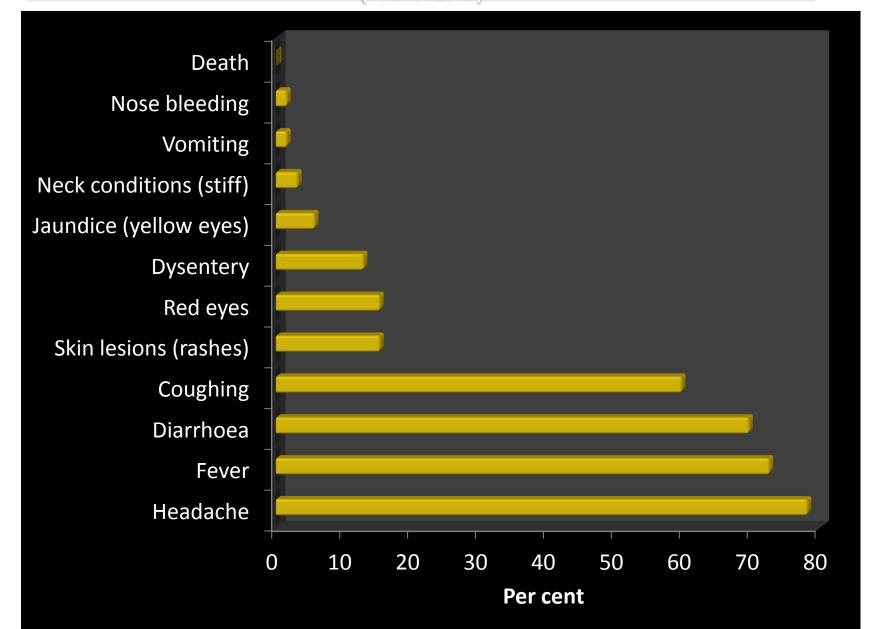


Ngorongoro CHRs (Community Health Reporter) - Report on a skin disease



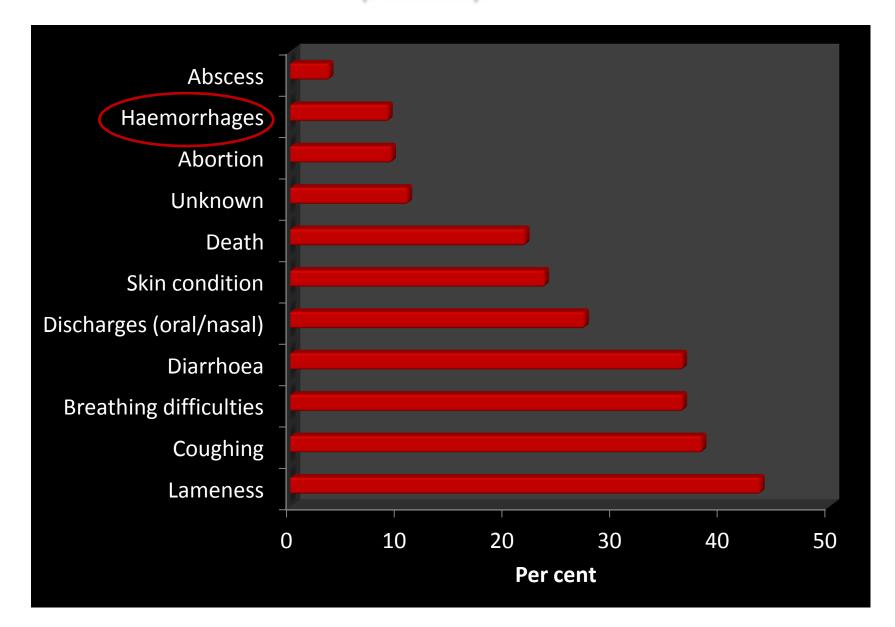
Conditions reported by CHRs in Kagera River Basin (Humans)





Conditions reported by CHRs in Kagera River Basin (Animals)

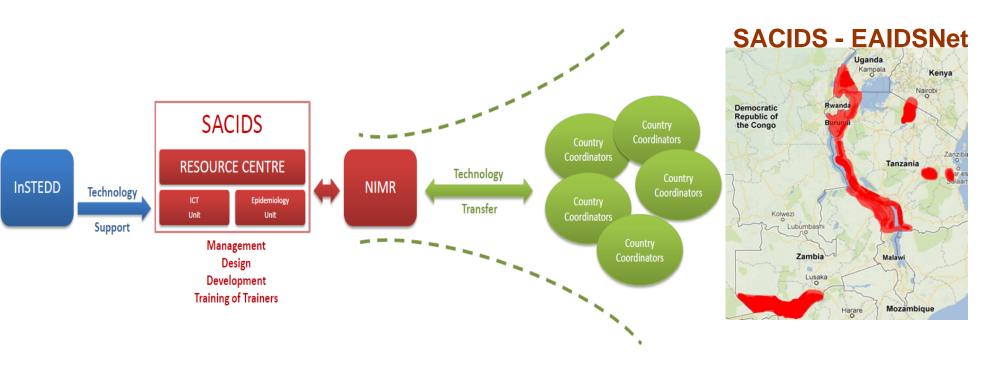




Towards a SACIDS/CORDS



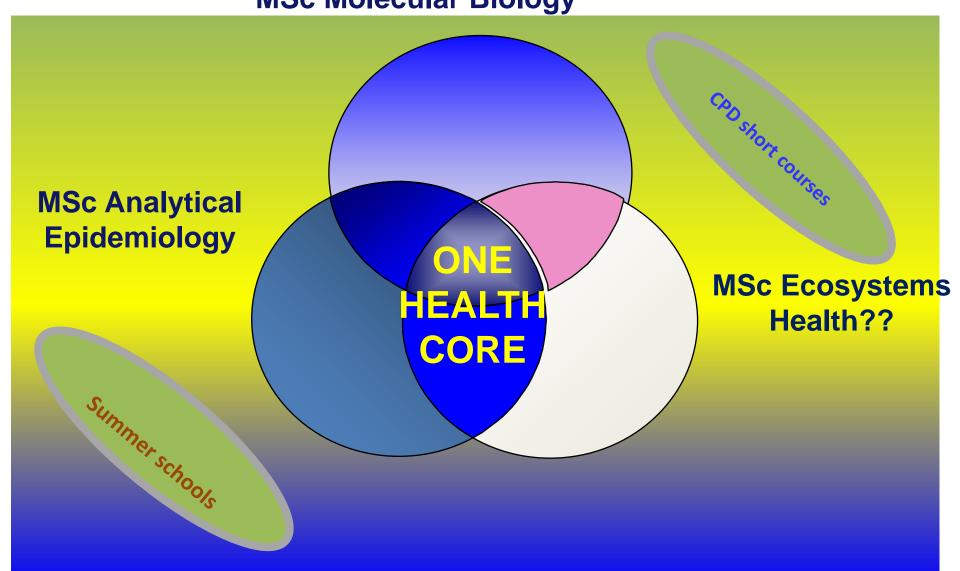
One Health Disease Surveillance Support Platform Linked to MoH & MoL/MoA



Our Training Achievements and Targets



MSc Molecular Biology



One Health Training



Annual Summer School

Theme 2012: ecology and drivers of

infectious diseases

Theme 2013: One Health approaches for

bacterial zoonoses, including food-borne and

AMR

Theme 2014: Biosafety for OH work



One Health Based MSc Programmes					
UNIVERSITY	2010/11	2011/12	2012 /13	2013/14	TOTAL
SUA	8	9	9	10	36
UNZA	-	6	12	9	27
TOTAL	8	15	21	19	63
RVC-SACIDS (Vet Epi)			10		10

Research Management, Institutional Change and OH Forum



- Postdoctorate and Res MSc/Mphil into regulatory frameworks
- Targeted Research Management and Leadership Training
- Developing Outcome Mapping based M&E
- Biennial OH Conferences in Africa
- Leveraged GBP2.168million to enhance the OH portfolio





SACIDS Strategic Plan2020 launched by Vice-President of Tanzania

Publications by SACIDS Research Apprentices



- 1. Published = 67
- 2. In-Press = 7
- 3. In Preparation = 40
- 4. Poster presentations = 14
- 5. Oral presentations = 74

SACIDS Won Best Oral Presentations 2012 and 2014

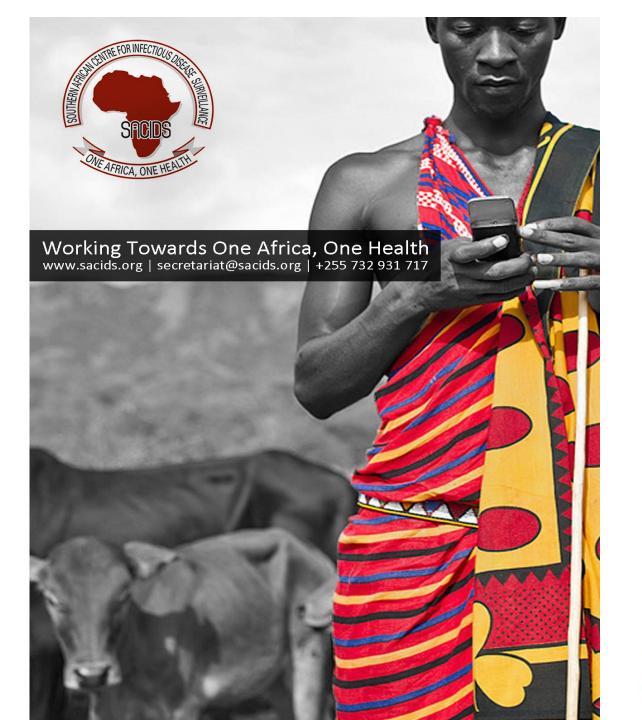


2014, Entebbe



2012, Accra





Thank you!!

Sponsors





