

## Practical Work

Theme 2: Animal Health and Disease

- basic information on incidence of spatial and temporal patterns of disease not known....wildlife, domestic animals and humans

Theme 3: Land Use. Ecosystem goods and services, and animal health

- need for ground truthing livestock numbers, conditions, disease status.

Theme 4: Human Livelihoods, animal and ecosystem health

- how plausible are alternative livelihoods, current benefits and costs compared to alternative futures

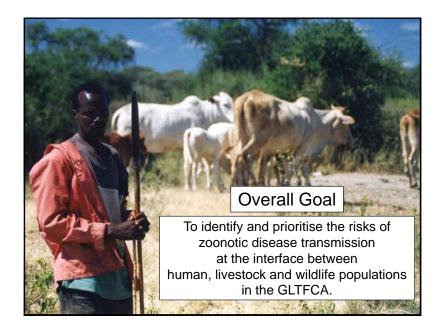
Theoretical

Theme 5: Policy support, capacity building at local, national and regional scale

Theme 6: Communication and Outreach

# Specific Objectives

- 1. Quantify the <u>practical risk factors</u> for zoonotic disease transmission between wildlife, livestock and people in the GLTFCA
- 2. Record the current disease concerns for wildlife, livestock and people in the GLTFCA
- 3. Record the awareness of zoonotic disease of local people and health service providers in the GLTFCA.
- 4. Provide estimates of the current and potential impact of zoonotic disease on the health of communities, livestock and conservation initiatives in the GLTFCA



# Inter-disciplinary team

#### Zimbabwe

• CIRAD

Research Platform - Private Community Partnership (RP-PCP)

· University of Zimbabwe

Centre for Applied Social Sciences (CASS)

Geography Department

Veterinary Department

Tropical Resource Ecology Programme, Biological Sciences

National University of Science and Technology (NUST)

#### South Africa

University of Pretoria, South Africa
 Mammal Research Institute, Department of Zoology and Entomology,

### USA

• University of California - Berkeley

Department of Environmental Science, Policy and Management, College of Natural Resources,



# <u>Methods</u>

Household Questionnaires (100)

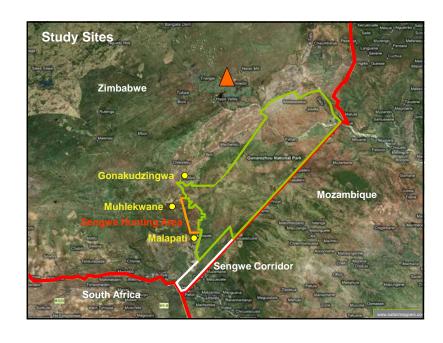
Individual Questionnaires at clinics and diptanks (100)

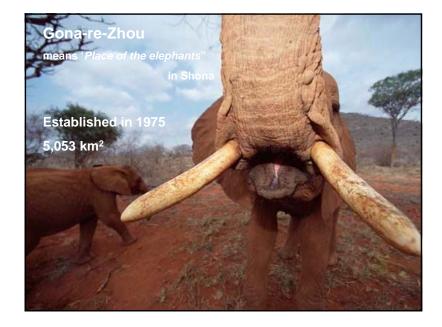
Community Focus Groups

All in collaboration with local organisations



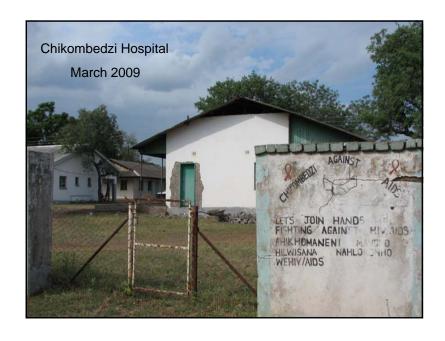
Animal Health
Household Demographics
Household Health
Natural Resource Use (Water, food)
Agricultural Practices
Human, Livestock and Wildlife Contact
Economic Impacts of Disease
Perceptions of Disease
Perceptions of the GLTFCA





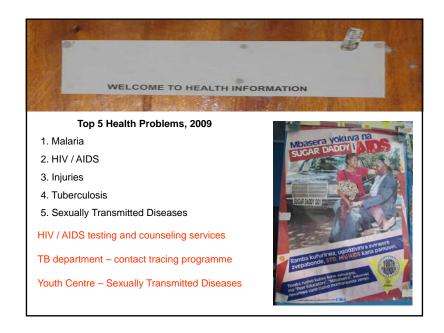


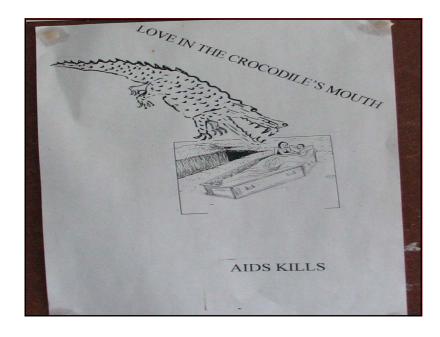








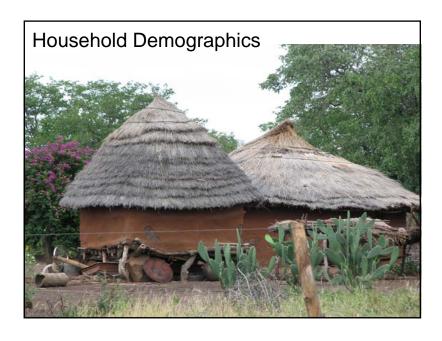


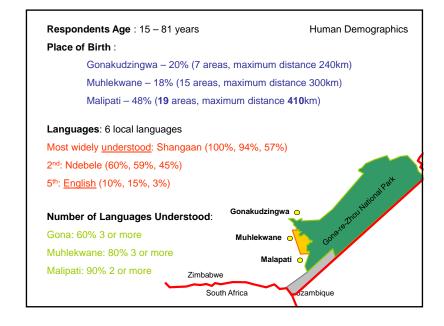


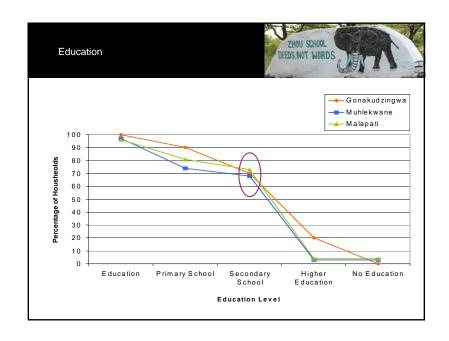


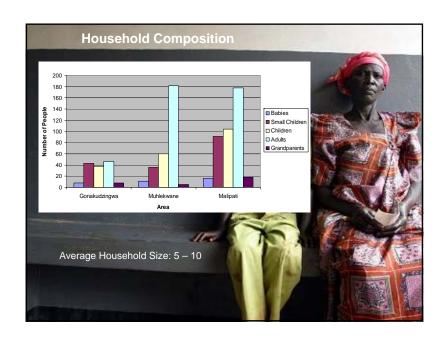


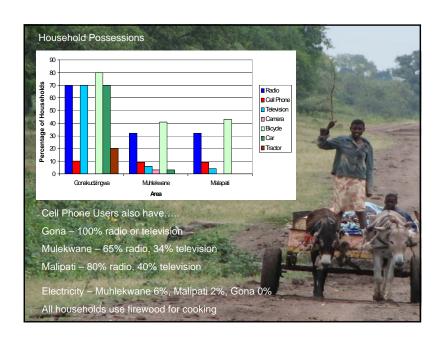




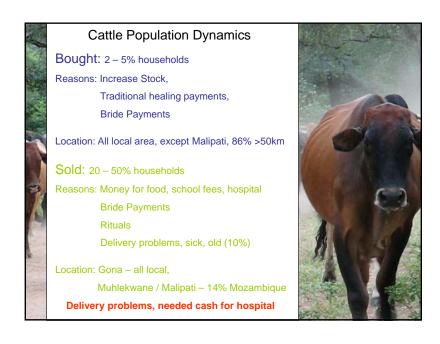






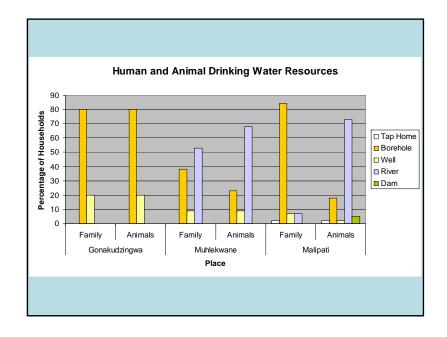


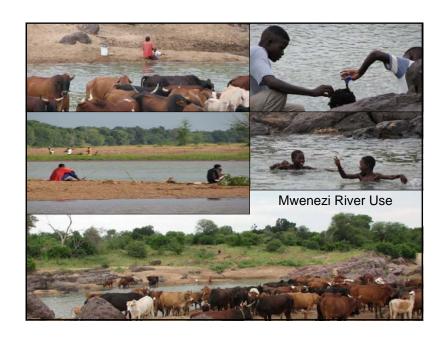


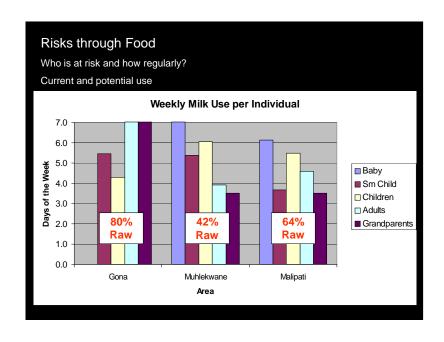


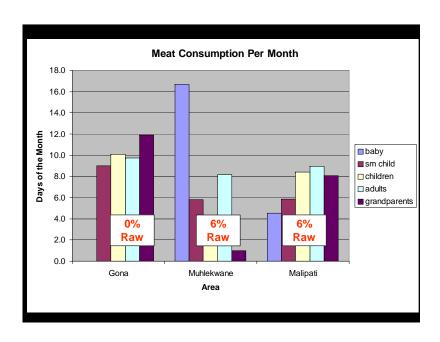
E I	Cattle Mortalities	– 50% hc	ouseholds in	each area
		Gona	Muhlekwane	Malipati
1	Heartwater	22	0	10
	Foot and Mouth	22	4	1
	Anthrax 🗙	0	4	0
11	January Disease	0	0	4
	Lumpy Skin	11	4	0
	Unknown Disease	11	46	57
	Trapped in Mud	0	13	4
H	Trapped in Snares	0	0	9
	Lack of Grazing	0	0	10
	Paralysis	0	8	0
	Dehorning	0	8	0
	Birth Complications	0	8	1
-	Broken Leg	0	0	1
T	Predation	(33) (	67%) 4	0
		The Valley of the Control of the Con	MARINE AND THE PARTY OF THE PAR	

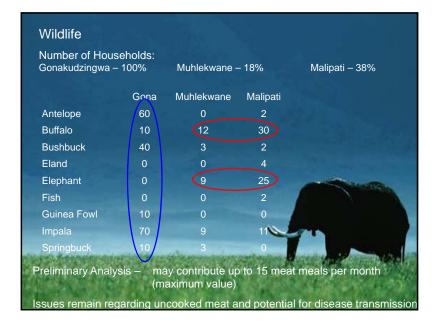




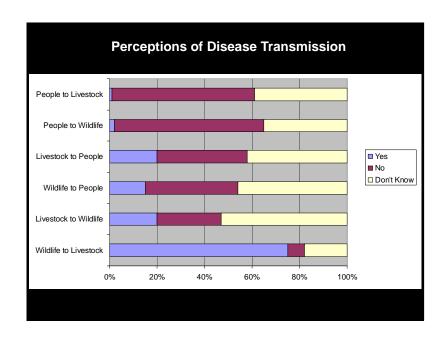


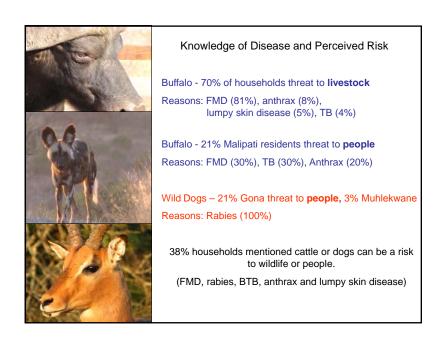


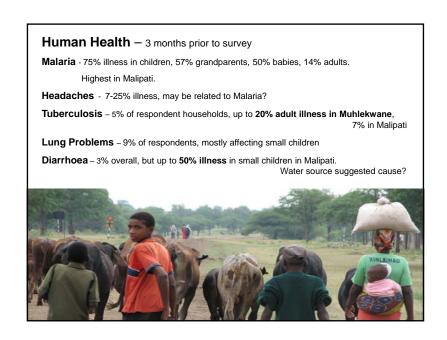














Case Rate: 22 / 1000 people (of those who reported it to us)

Adults most affected (83% of case load):

 $\mbox{Gona} - 100\% \;, \qquad \mbox{Muhlekwane} - 83\%, \qquad \qquad \mbox{Malipati} - 91\% \; \mbox{of cases} \\ \mbox{Remaining } 17\% \; \mbox{cases are in children} \\$ 

## This equates to:

- 20% of households being affected in Gona, and 15% in the other areas
- Up to 50% adults (aged over 16 years) affected in some households
- Where male and female affected, household most vulnerable to shocks
- 81% of TB affected families report other illnesses in household members
  - increases patient load and cost for these households



