

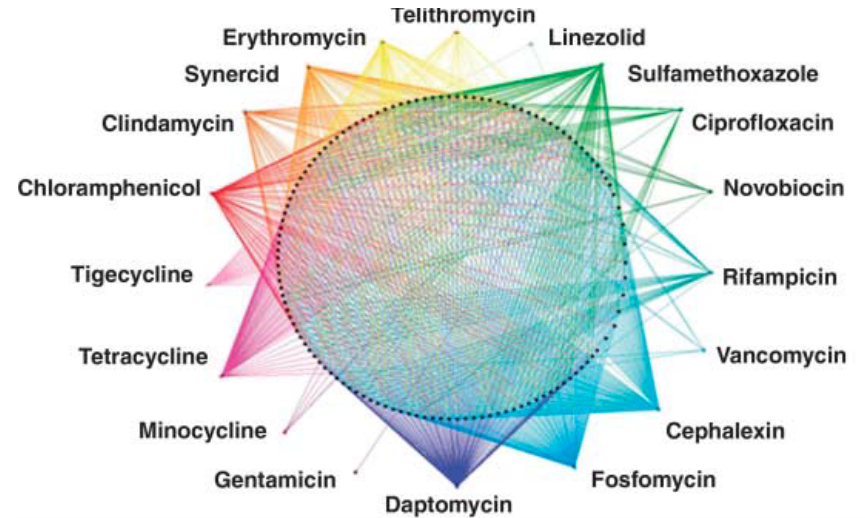
1. Game theoretic approaches to diagnostic test adoption for sheep scab



2. The use of vaccination to control E. coli O157 in livestock



3. The ecology of antimicrobial resistance



Ecological and Socio-Economic Factors Impacting Maintenance and Dissemination of Antibiotic Resistance in the Greater Serengeti Ecosystem

Socio-economic surveys of 480 households in 48 communities across distinct ecological zones

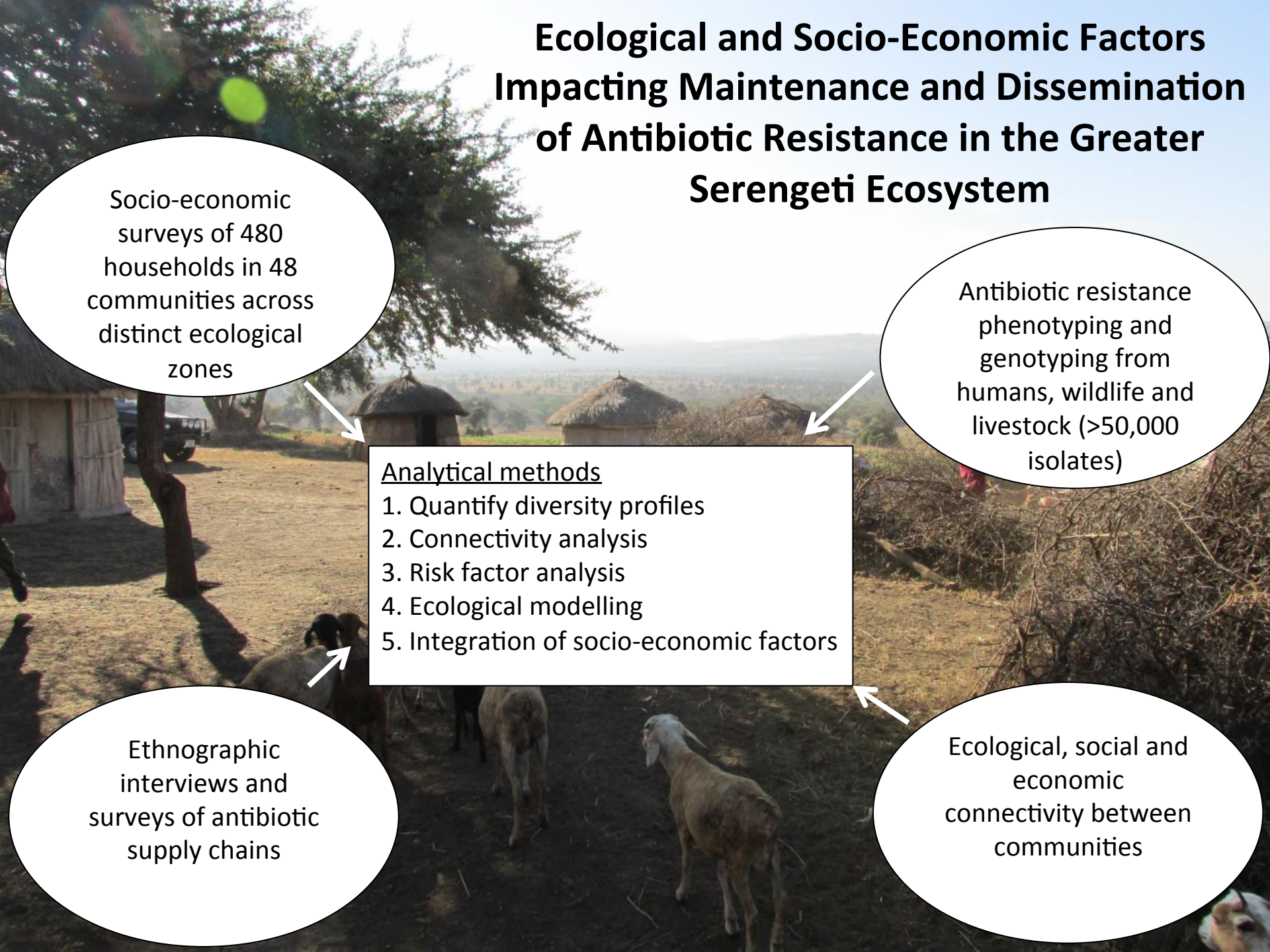
Antibiotic resistance phenotyping and genotyping from humans, wildlife and livestock (>50,000 isolates)

Analytical methods

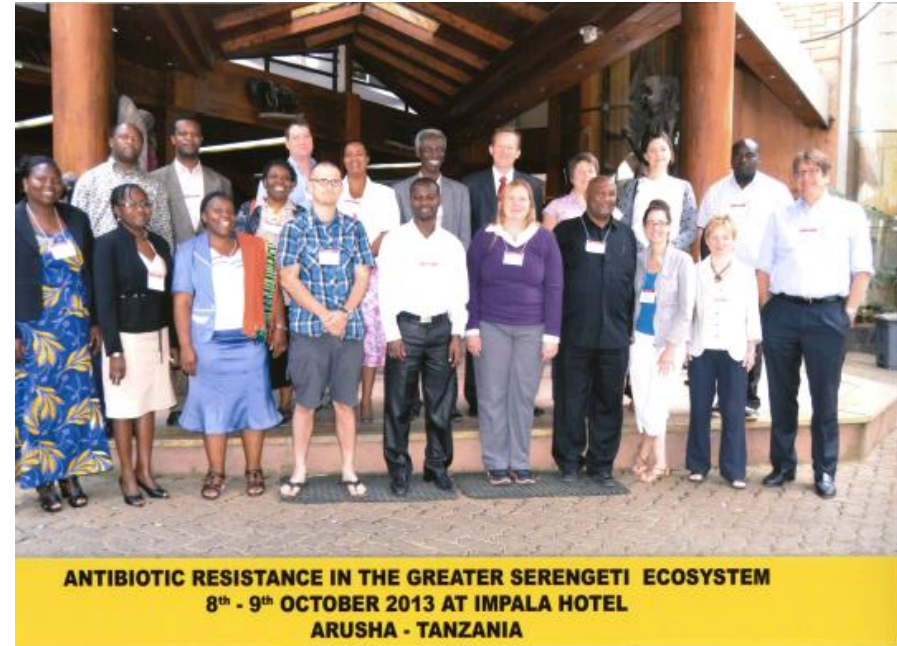
1. Quantify diversity profiles
2. Connectivity analysis
3. Risk factor analysis
4. Ecological modelling
5. Integration of socio-economic factors

Ethnographic interviews and surveys of antibiotic supply chains

Ecological, social and economic connectivity between communities



- **Washington State University (USA)**
 - Doug Call, Margaret Davis, Terry McElwain, Guy Palmer, Rob Quinlan, Marsha Quinlan, Mark Caudell, Felix Lankester
- **University of Glasgow**
 - Jo Sharp, Sarah Cleaveland, Richard Reeve, Dan Haydon, Colette Mair
- **Duke University (USA) & University of Otago (New Zealand)**
 - John Crump
- **Nelson Mandela African Institute for Science and Technology (TZ)**
 - Francis Shahada, P. Gwakisa
- **Tanzania Wildlife Research Institute (TZ)**
 - Julius Keyyu
- **Kilimanjaro Christian Medical Centre & Kilimanjaro Clinical Research Institute (TZ)**
 - G. Kibiki, M. Ntabaye



- **University of Dodoma (TZ)**
 - D. Mwamfupi, Benta Matunga, Deman Yusuph, Eva Ombaka
- **RVC (UK)**
 - Jonathan Rushton, Ruth Rushton, Stuart Reid
- **Directorate of Veterinary Services (TZ)**
 - Emanuel Swai