Arthropod vectors, pests and parasites

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Fundamental questions

- **Ecology**: explain patterns of arthropod pest and vector abundance in space and time
- **Application**: develop novel, effective, environmentally acceptable ways of effecting sustainable control
Dung colonising beetles
Dung-colonising beetles
Intensification of livestock husbandry: food security

*Bos taurus* breeds of cattle in Zambia
Susceptible breeds of cattle can only be kept alive in tropical and sub-tropical environments through repeated use of insecticides to kill disease vectors, such as ticks and tsetse.
The impacts of insecticides on dung decomposing beetles in African savannah ecosystems

Bryony Sands
Neludo Mgidihasa
Deltamethrin concentration in dung (PPM)
Long-term pesticide use may damage decomposer ecosystem services and impair pasture fertility