#### Presentation given at the

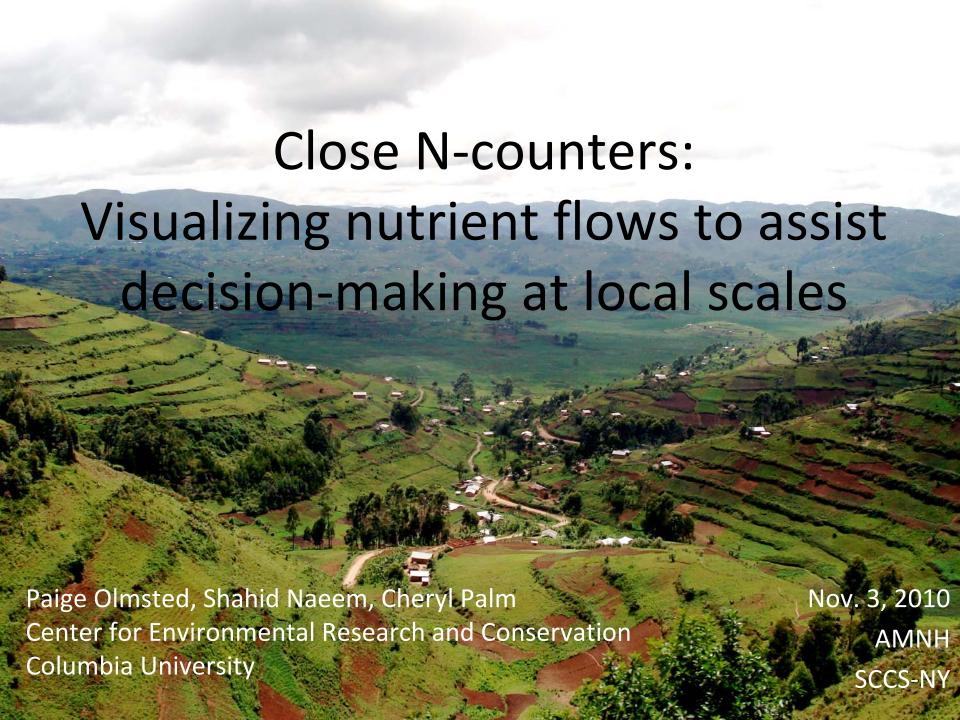
### Student Conference on Conservation Science (SCCS-NY) 2010

American Museum of Natural History
New York City

3-5 November 2010



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# Millennium Villages Project

- MDG 7: Ensuring Environmental Sustainability
- Half way point in 2010, limited success with cross cutting sectors including environment

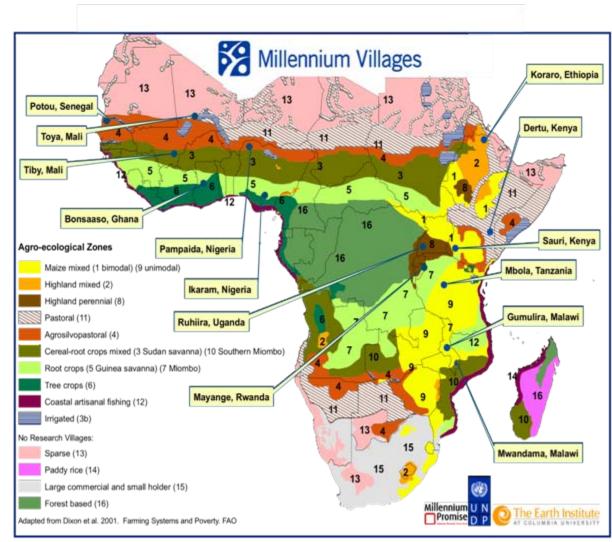
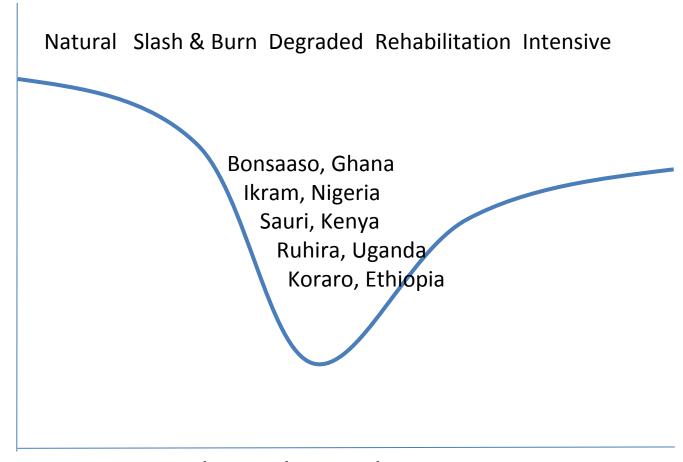
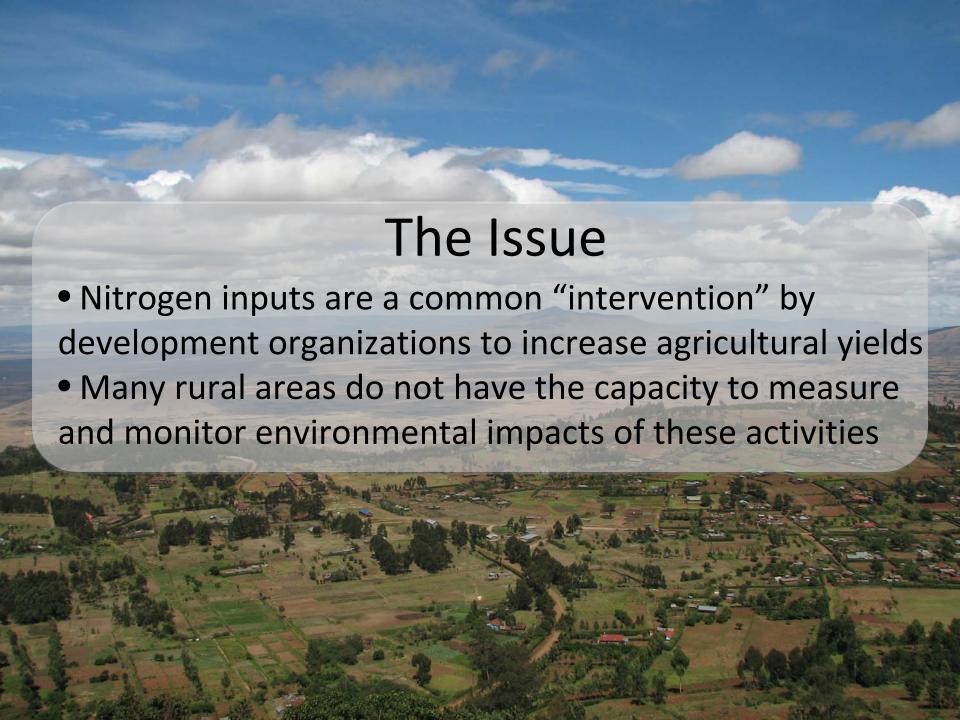


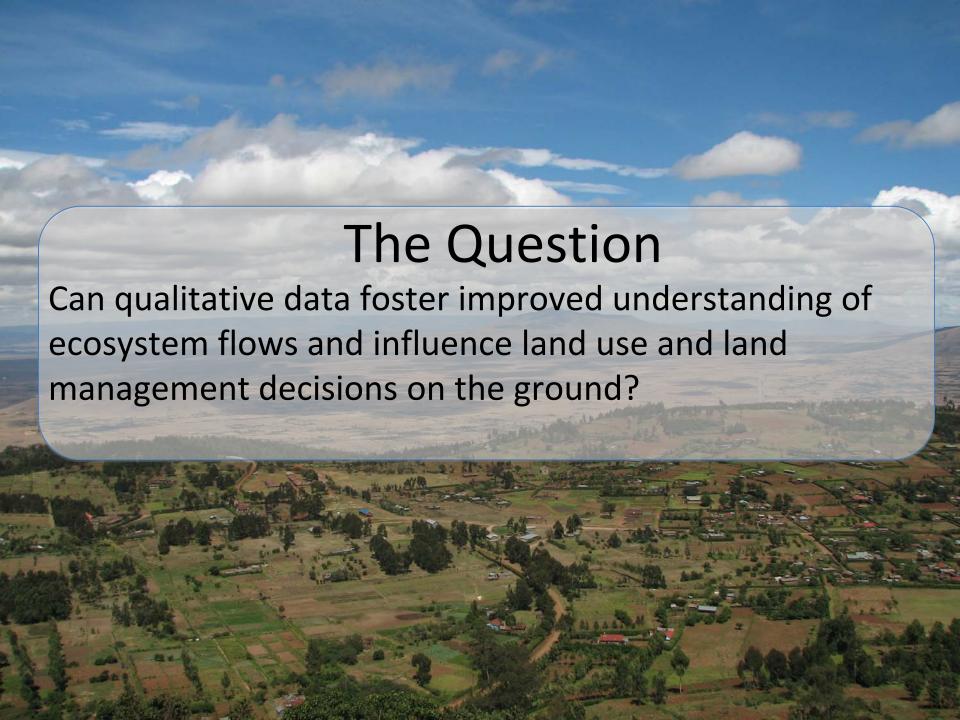
Image credit: Millennium Villages

### **Ecosystem Services Over Time**

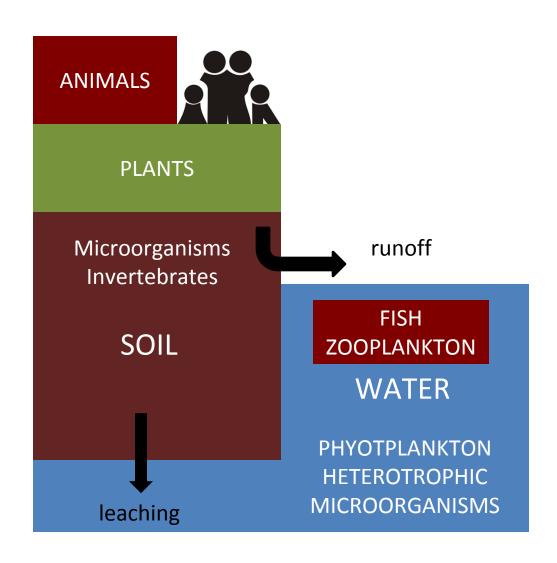


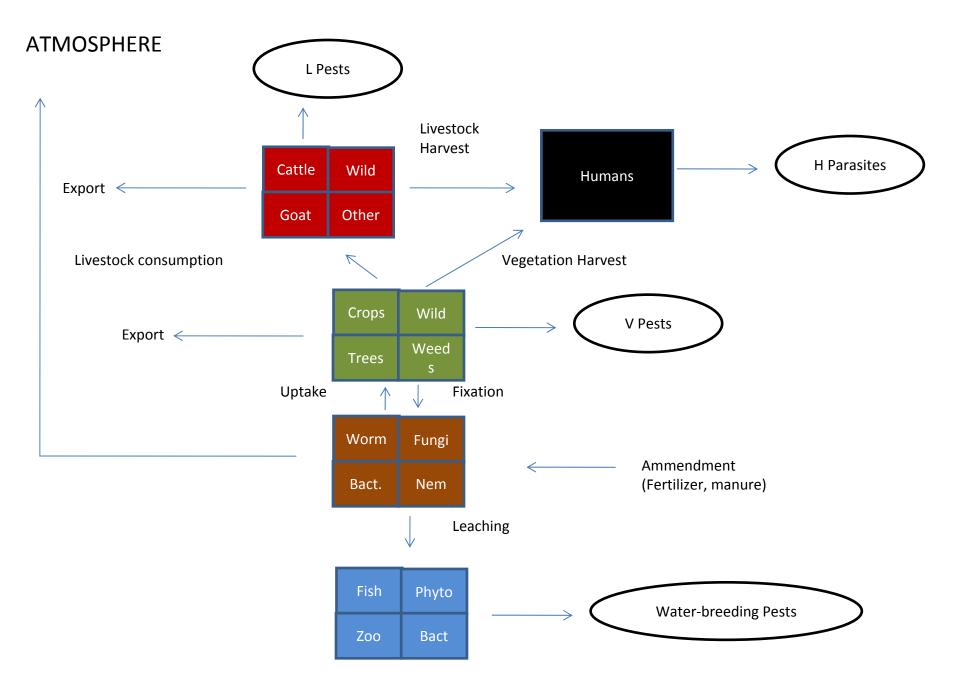
Time and population density

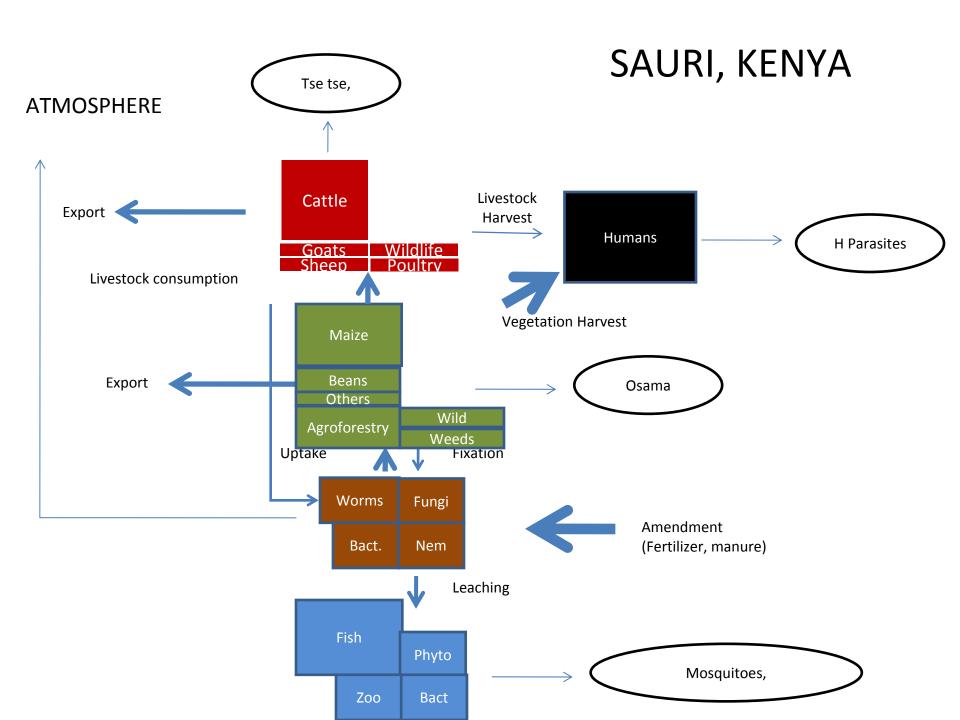


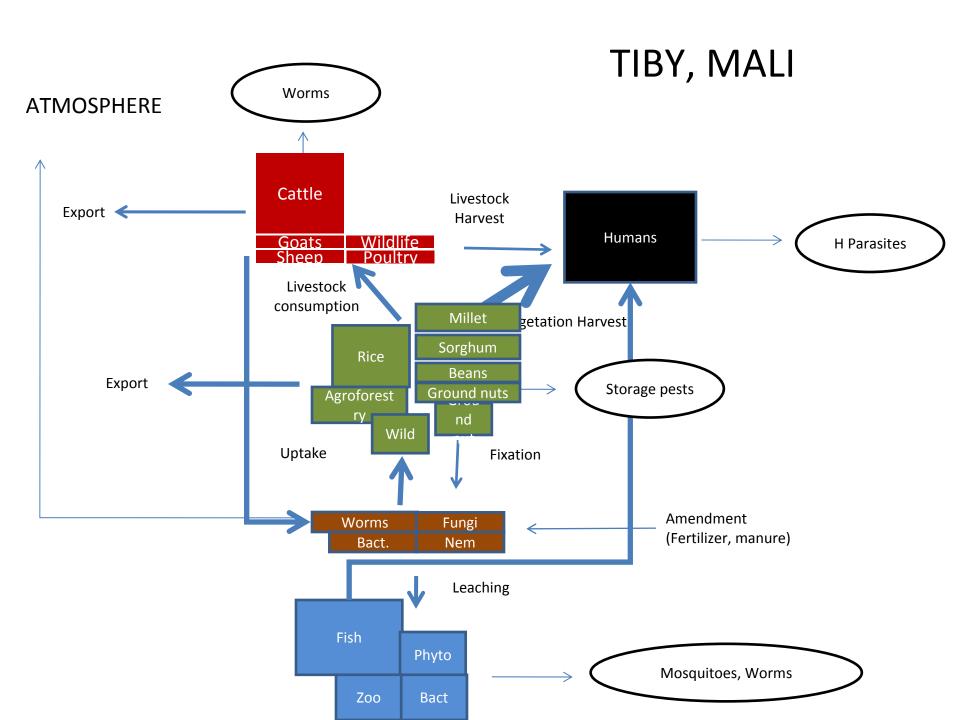


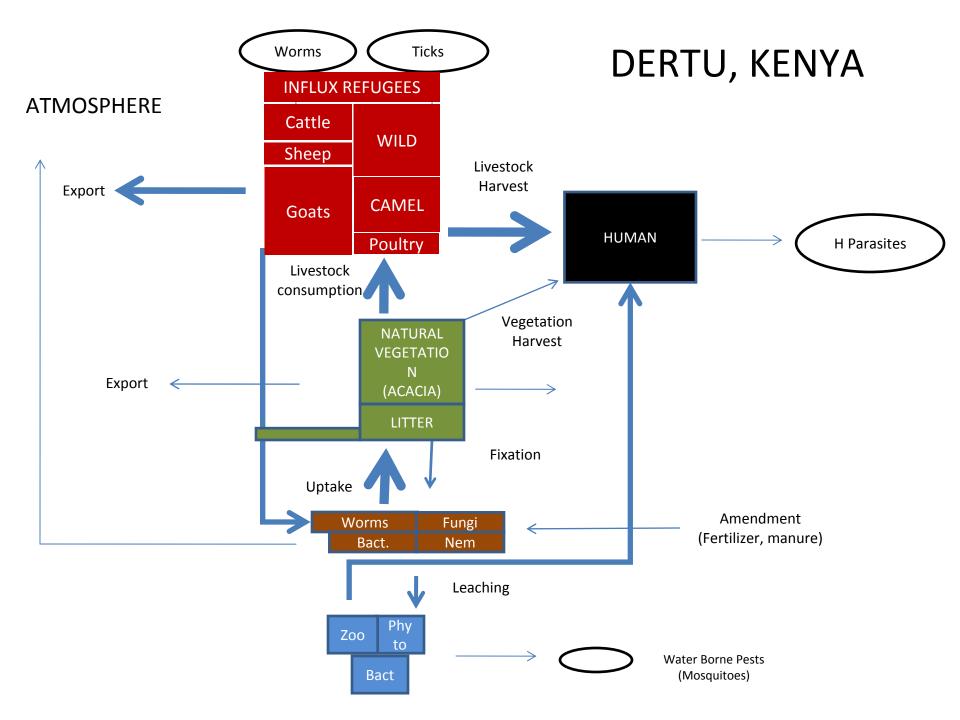
## "Service" Ecosystem











#### BONSASO, GHANA **ATMOSPHERE WILDLIFE** Sheep Goats Poultry Livestock **Export** Harvest Humans **H** Parasites Maize Livestock consumption Rice Plantain Wild Casava egetation Harvest (1° and 2° Others Forest) Oil palm Capsid **Export** (insect on cocoa) Cocoa Weeds 4% Uptake **Fixation** Worms Fungi Amendment (Fertilizer, manure) Nem Bact. Leaching Fish Phyto Mosquitoes Zoo **Bact**

# **Preliminary Predictions**

- Visualization exercise promotes understanding of among farmers and land managers
- Iterative free-flowing conversation more effective than consistent set of questions
- Potential for site specific cause-effect comparisons over time may be most instructive

