



# Quantification of environmental footprints of different pig production systems and how they are likely to change due to the MorePork intervention packages in Uganda

## Challenge

- Demand for pork is growing
- Pork production has a significant environmental footprint, but information is lacking, and trade-offs are poorly understood

## Our approach

- Identify typical pork production systems
- Quantify baseline environmental footprint
- Validate with stakeholders
- Describe intervention packages
- Quantify change in environmental footprints

## Results, outcomes, achievements

- Baseline validation workshop report:
  - High use of crop residues
  - Most systems exporting N without replenishing back to the soil
  - Most emissions come from manure management
  - The intensive systems that are characterized with high meat production also depict high relative GHG emissions
- Scenario assessment report:
  - Implementation of the Morepork intervention packages is expected to increase the environmental footprint of pork production



## Lessons and significance

- Land and water use efficiency is attainable only when improved forages take more than half of the pig diet
- Use of cover crops such as Brachiaria and together with better cultivation practices like reduced tillage, mulching, and contour farming has multifaceted benefits on the soil health
- Production and use of improved forages, proper manure management and limiting the use of soil inputs can act as a good climate change mitigation option in the study sites
- The integrated intervention packages depict a need for improvement as the overall environmental efficiency gains per unit of output are not always achieved

## Partners

- Alliance of Bioversity international and CIAT
- ILRI
- Ministry of Water and Environment

### UGANDA MORE PORK PROJECT

Emmanuel Mwema (ABC)  
 Isaac Rubayiza (Ministry of Water and Environment)  
 An Notenbaert (ABC)

*Project intervention*

*Environment*



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