



Dairy enterprise located in Rungwe Mbeya, the Southern Highlands of Tanzania



ENVIRONMENTAL HEALTH & BIODIVERSITY

Environmental assessments can inform more sustainable livestock development

Context

- Limited context-specific knowledge of the environmental impacts of livestock enterprises in developing countries
- Decision makers need to understand the environmental impacts of growth and transformation in the livestock sector, so that they can develop more inclusive and sustainable livestock intensification plans that mitigate the negative impacts and enhance the positive ones

Our innovative approach

- Develop a user-friendly model for estimating the environmental footprint of livestock enterprises: CLEANED
- CLEANED requires minimum data from local statistics, experts etc.
- Training and collaborating with local experts to conduct the CLEANED assessments



- Livestock production contributes to major environmental impacts on air and climate change, land and soil, water and biodiversity.
- CLEANED, an ex-ante model, allows users to explore environmental and productivity trade-offs of different livestock enterprises and changes therein.



Land



Location Define location



Soil health



Livestock: Describe system



Water Impacts



GHG emissions



Productivity



RESEARCH PROGRAM ON Livestock

Livestock & Environment

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Outcomes

- CLEANED assessments done on livestock enterprises in:
 - Kenya, Nicaragua, Ethiopia, Tanzania etc
- To find out more about previous and current CLEANED applications:

<https://ciat.cgiar.org/ciat-projects/environmental-assessments-of-livestock-systems-using/>

Future steps

- CLEANED virtual training for partners in priority countries and beyond
- CLEANED assessments for: Pig, Dairy, Small Ruminant and multi-species enterprises
- CLEANED moving to a new open source platform and programmed in R

Partners

- CIAT
- ILRI
- TALIRI
- KALRO
- IFAD
- Send a Cow
- NaLIRRI
- EAIR
- BMGF
- BBSRC
- CSIRO
- SEI
- NIAS/IAE
- GIZ

Alliance



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