

## Context

- There is a **huge deficit of context-specific data** for various forage materials and feeds linking management to feed nutritional quality and covering important information such as geolocations and overall climate descriptors of where the data was sourced.
- Forage scientists, animal nutritionists, rangeland ecologists, farmers, decision makers, and others often rely on blanket values of feed nutrition data rather than **updated region-specific data** for their decision making.

## Our innovative approach

- **Our open-source database** offers continuous updates on feed nutrition and management. It captures variations across agroecologies and dives deep into understanding plant-specific nutritional differences, paving the way for tailored management advice.
- Information on the **variations of nutritional aspects of forages** in different agroecologies across differing climatic zones.
- The database can be **linked to other digital tools** supporting farmers and extension services, such as feed calculators and mobile phone applications.



Scan to visit the database



INITIATIVE ON

Livestock and Climate

## A new feed database to accelerate decision making, environmental analysis, and soil modelling through access to region-specific nutritional and management data

- The novelty of this feed database is the **provision of metadata** such as collection site, agroecological zone, fertilization, irrigation, and plant stage together with nutritional quality and productivity for forage and feed materials.
- This will enable **linking nutritional quality with management** to make targeted recommendations suitable for different regions and climates to inform on better feeding options for farmers using locally available resources.
- **The audience are** livestock keepers, land managers, nutritionists, researchers, modelers, and decision makers

Peggy Karimi, ABC  
[p.karimi@cgiar.org](mailto:p.karimi@cgiar.org)

An Notenbaert, ABC  
[A.notenbaert@cgiar.org](mailto:A.notenbaert@cgiar.org)

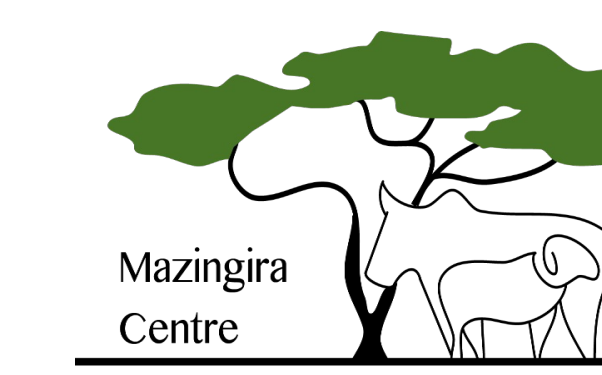
Solomon Mwendia, ABC  
[s.mwendia@cgiar.org](mailto:s.mwendia@cgiar.org)

Sonja Leitner, ILRI  
Mazingira  
[s.leitner@cgiar.org](mailto:s.leitner@cgiar.org)

Chris Jones, ILRI  
[c.s.jones@cgiar.org](mailto:c.s.jones@cgiar.org)

## Progress/outcomes

- Feed data from CIAT forage trials have been collated for the years 2018-2022 total of 2337 samples.
- Feed data from ILRI's Mazingira lab have been collated for the years 2020-2022.
- Transition from data in Excel to an online tool with user-friendly user interface → provision of a database mockup to visualize data per region:
- Discussion with potential users about optimal content, design, and functionality of the database.
- Discussions to include more data sources from partners such as other CGIAR centers, national and international research organizations, universities.



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