Understanding pathways toward low-emissions livestock: Evidence from Kenya and Tanzania

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Greening Livestock and Inclusive

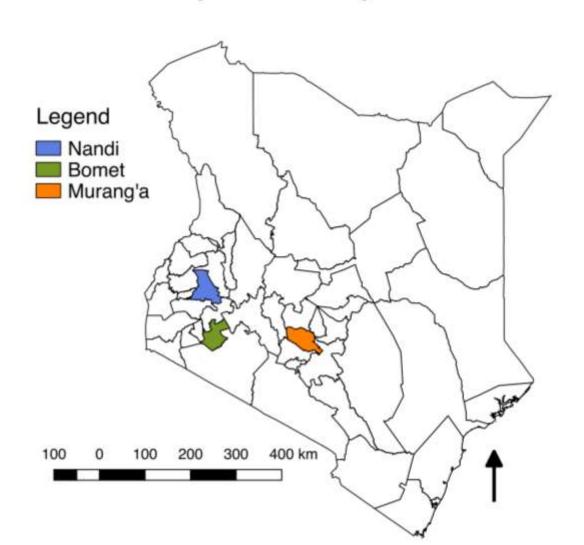
- Basic research
 - GHG emission baselines
 - Social implications
 - Enabling environment

- Policy maker support
 - Targeting
 - Planning
 - Reporting



Political Economy of LED: Kenya

Study sites in Kenya



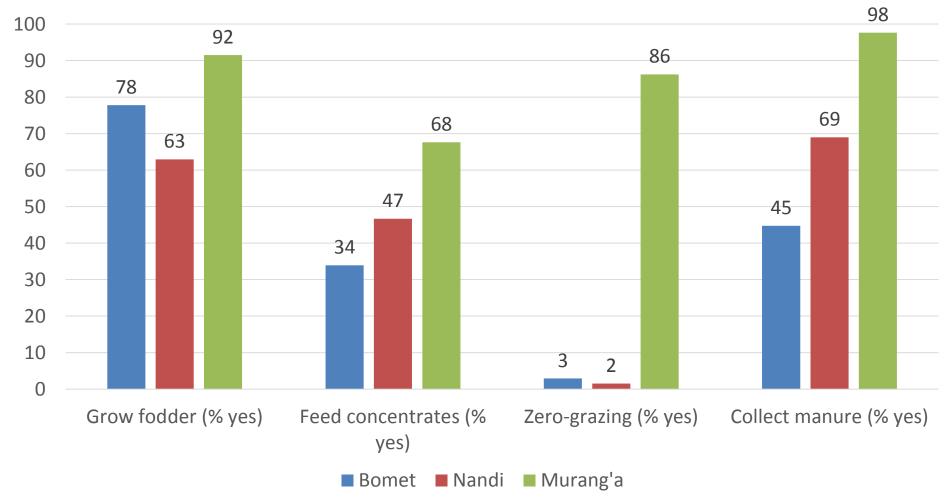
3 counties

108 villages

1050 households

Political Economy of LED: Practices





Political Economy of LED: Value Chains

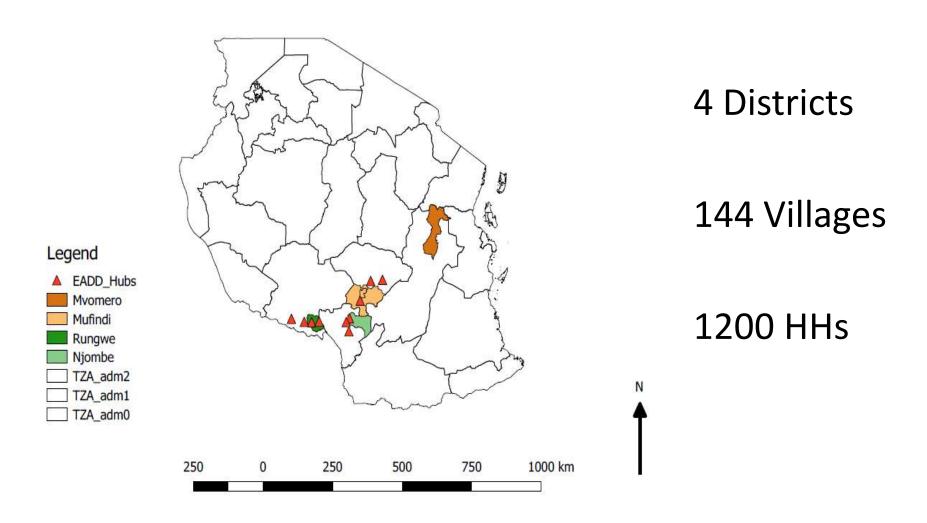
(N=1015)	Bomet	Nandi	Murang'a
Milk not sold (%)	17.84	40.96	23.75
Individual costumers (%)	35.67	21.69	29.33
Informal middlemen (%)	35.67	20.48	22.58
Farmer cooperatives (%)	8.19	11.75	17.30
Amount of morning milk (L)	5.9	5.4	6.1
Amount of evening milk (L)	1.5	1.1	2.5
Government AI (% yes)	3.8	3.3	17.9
Private AI (% yes)	18.1	22.9	66.6

Political Economy of LED: HH Types

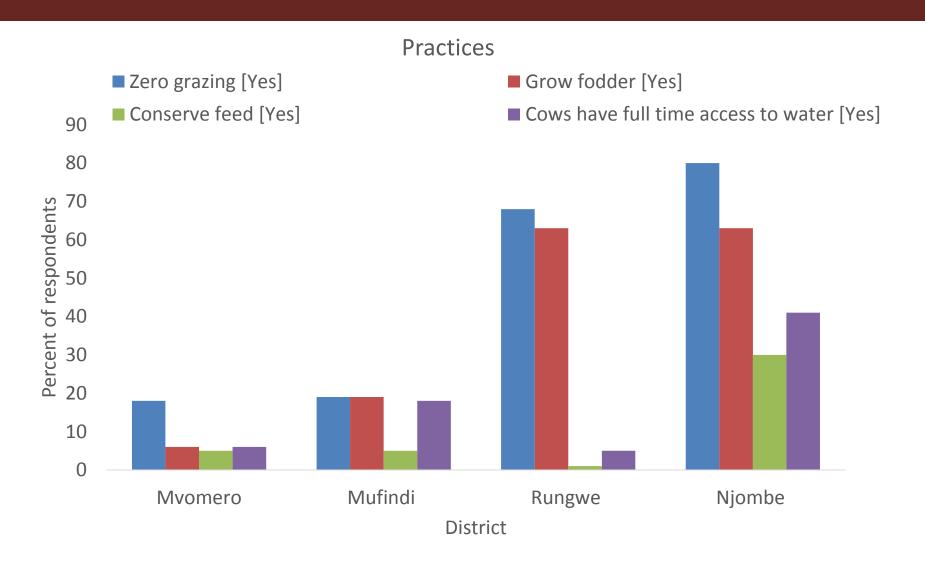
Dairy not prioritised [9%]	Least wealthy without revenue from dairy [11%]	Poor with revenue from dairy [14%]	Business driven [13%]	Semi-intensive [15%]	Intensified with formal employment [22%]	Diversified with formal employment [16%]
* Do not sell milk * Low adoption of best practices * Mainly income from other livestock, most land * Keep most local cows 3.71L/cow/day	* Do not sell milk * Not wealthy * Least adoption of best practices of households that don't sell milk 3.77L/cow/day	* Sell milk, mainly informally * Least wealthy * Lowest adoption of best practices of households that sell milk * Next to dairy, bit of revenue from cash crops 6.37L/cow/day	* Sell milk, mainly informally * Wealthy * Most zerograzers, least land * Main revenues from dairy and offfarm business 6.59L/cow/day	* Sell milk, mainly informally *Also revenues from other livestock * Average adoption of best practices 6.70L/cow/day	* Sell milk, mainly to cooperatives * Also revenues from other livestock and formal employment * Good adoption of best practices 6.71L/cow/day	* Sell milk, mainly informally * Wealthiest * Overall most adoption of best practices * Most revenues from dairy, cash- and food crops, and formal employment * No revenues from other livestock 7.39L/cow/day

Political Economy of LED: Tanzania

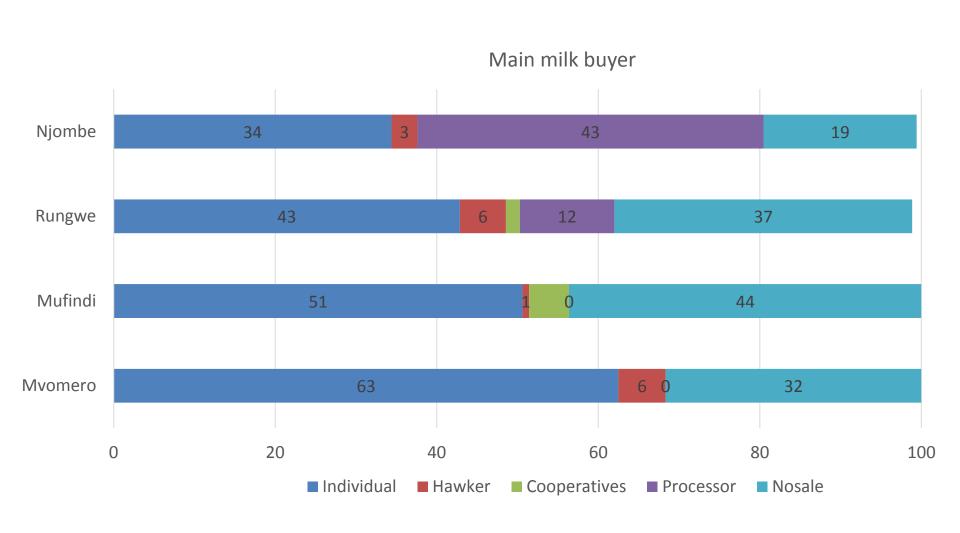




Political Economy of LED: Practices



Political Economy of LED: Value Chains



Political Economy of LED: HH Types

Off-farm driven [9%]	Poor [19%]	Diversifying [11%]	Semi intensive [22%]	Wealthy [14%]	Intensive [24%]
* Do not sell milk	* Do not sell milk	* Sell milk	* Sell milk	* Sell milk	* Sell milk
* Main income is from off farm business	* Rank lowest on assets	* Engage in other business including off-farm business	* Not very wealthy * Rank average in	* Rank highest on assets	* Mainly sell to processors
* Rank lowest on uptake of improved practices	* Rank low on uptake of most improved practices	* Rank good in uptake of improved practices	the uptake of most improved practices	* Rank high on uptake of improved practices	* Rank highest in the uptake of improved practices
* Mainly local cattle kept for manure and milk consumption	* Mainly local cattle kept for manure and milk consumption	* Have capital to invest on dairy but also have other competing business		* Have the best milk prices	* Connected to farmer groups and credit

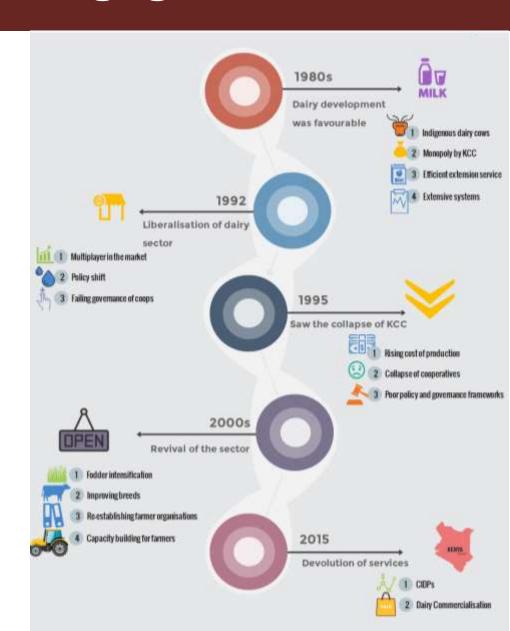
Gender and LED: Kenya and Tanzania

- Contested milk sales
 - Payment structures
 - Cultural norms of household headship
- Markets as masculine
- "Informal" economy
 - Intermediaries
 - Milk bar operators
 - Evening milk vendors



Stakeholder Engagement

- Pathways approach to inclusivity in planning
 - Local assessment workshops (Jan-Feb)
 - National assessment workshops (May-June)
 - National planning workshop (end 2019)



Practical Implications for LED

LED pathways are diverse and contingent

Genders

Counties/Districts

Households

Countries

Value chains

— [



Practical Implications for LED

- Diversity can be accommodated, but requires
 - Inclusive processes
 - Deliberative spaces
 - Effective partnerships



Questions, comments, concerns, critiques?















Stakeholder Engagement

- Nationally Determined Contributions
 - Kenya: 30% reduction vs. business as usual

Kenya seeks to undertake an ambitious mitigation contribution towards the 2015 Agreement. Kenya therefore seeks to abate its GHG emissions by 30% by 2030 relative to the BAU scenario of 143 MtCO2eq; and in line with its sustainable development agenda. This is also subject to international support in the form of finance, investment, technology development and transfer, and capacity building.