

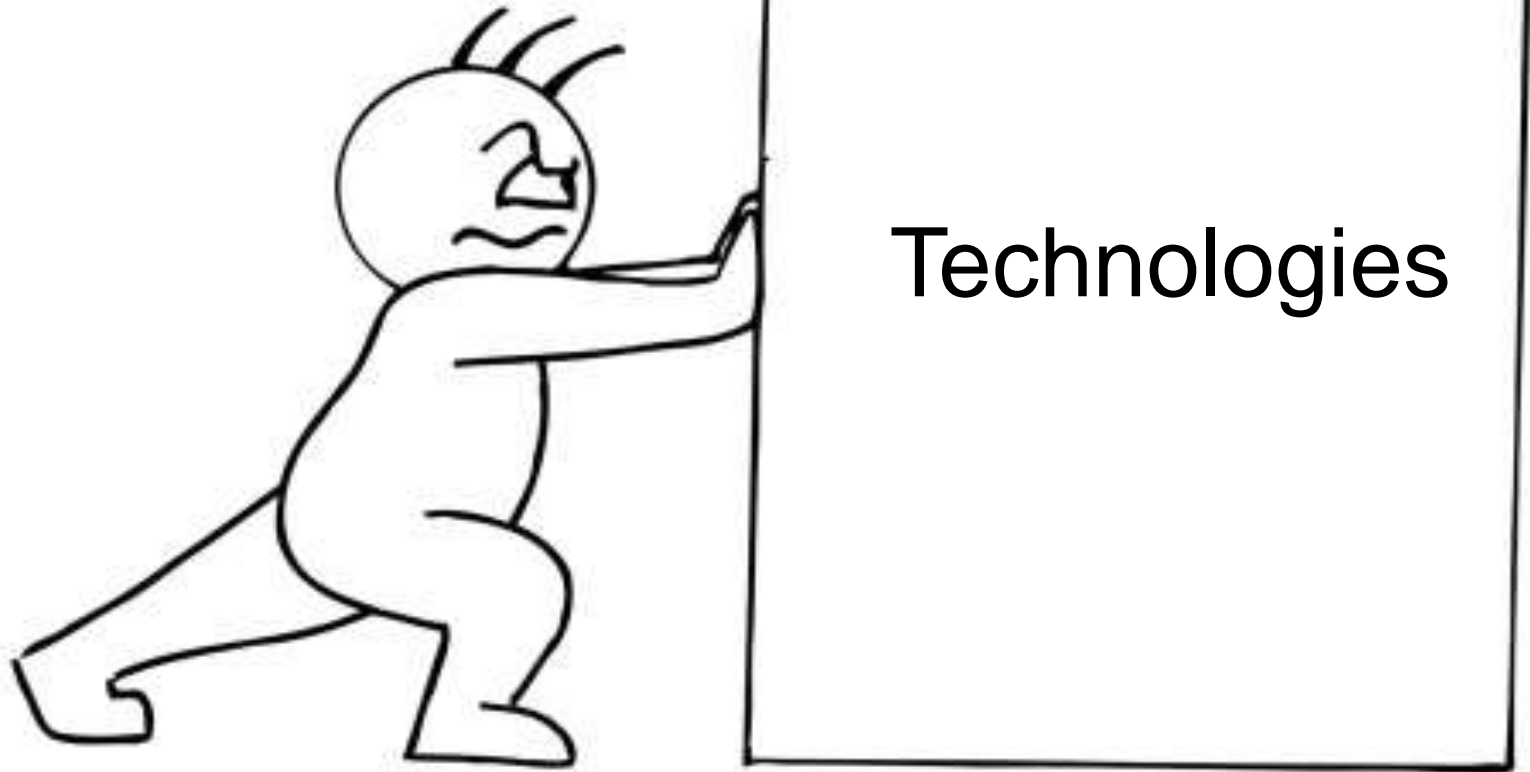
Improving market participation and competitiveness of communal area beef farmers in Zimbabwe's Mashonaland East Province through better feeding and value chain initiatives.

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Background

Need to change the conventional approach to agricultural research to Participatory Technology Development

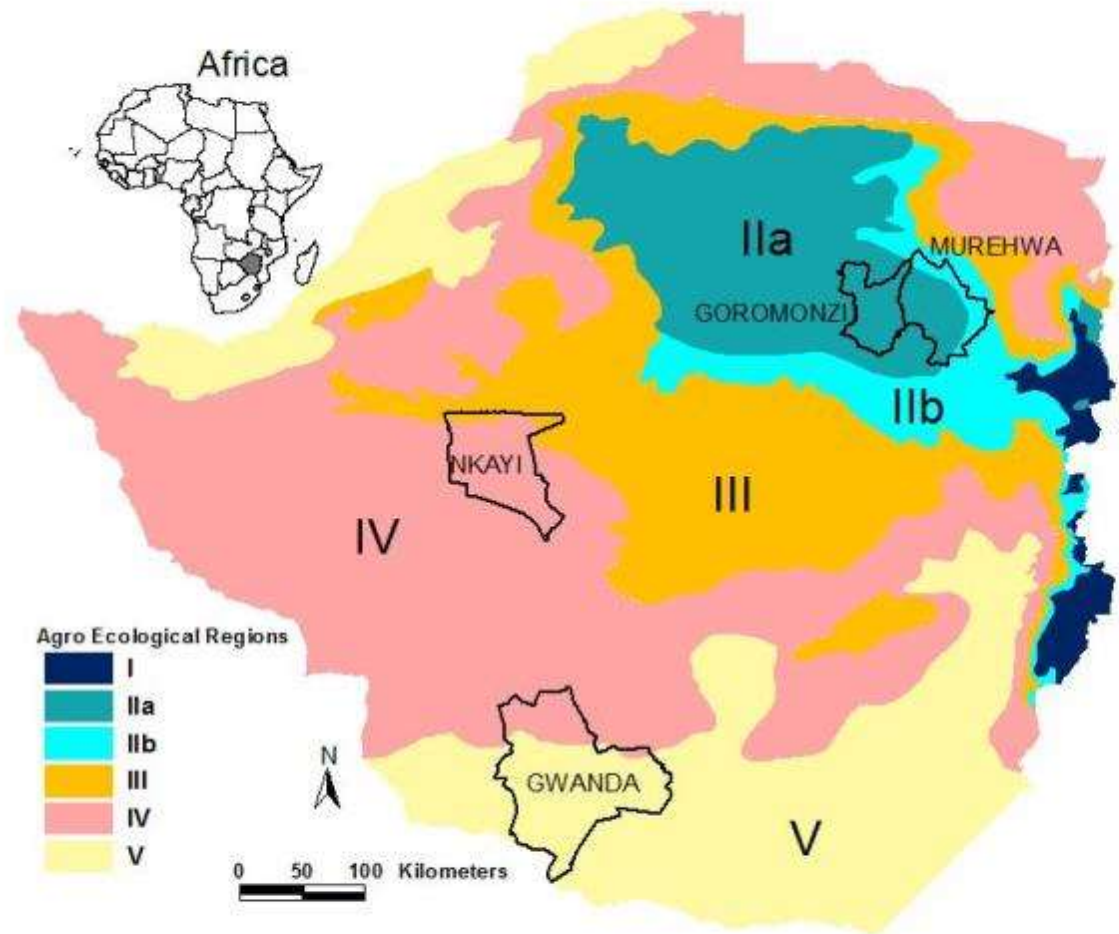


Specific objectives of the ZimCLIFS Project

- To increase the productivity of SH crop-livestock households by identifying and adapting appropriate technologies and associated management practices
- To improve farmers' access to resources, technologies, information and markets by characterising and strengthening crop and livestock value chains
- increase the skills of research and extension staff and agribusiness in the design and implementation of integrated farming systems research for development programs in Zimbabwe



ZimCLIFS project sites in Zimbabwe



Project Approach

- ✓ Conduct baseline survey, PRAs and identify different capability classes of farmers (**typologies**)
- ✓ Identify **critical** value chains (**identified BEEF**)
- ✓ Develop effective Innovation Platforms
- ✓ Identify constraints to production / marketing and suggested alternatives from IP stakeholders
- ✓ Establish farmer's envisaged future with BEEF production
- ✓ Develop effective partnerships with local change agents
- ✓ Identify critical success factors and drivers for on-farm production
- ✓ Simulation modeling

Participatory learning

Who is leading development of interventions???

Participatory Learning & On-farm Technology Development



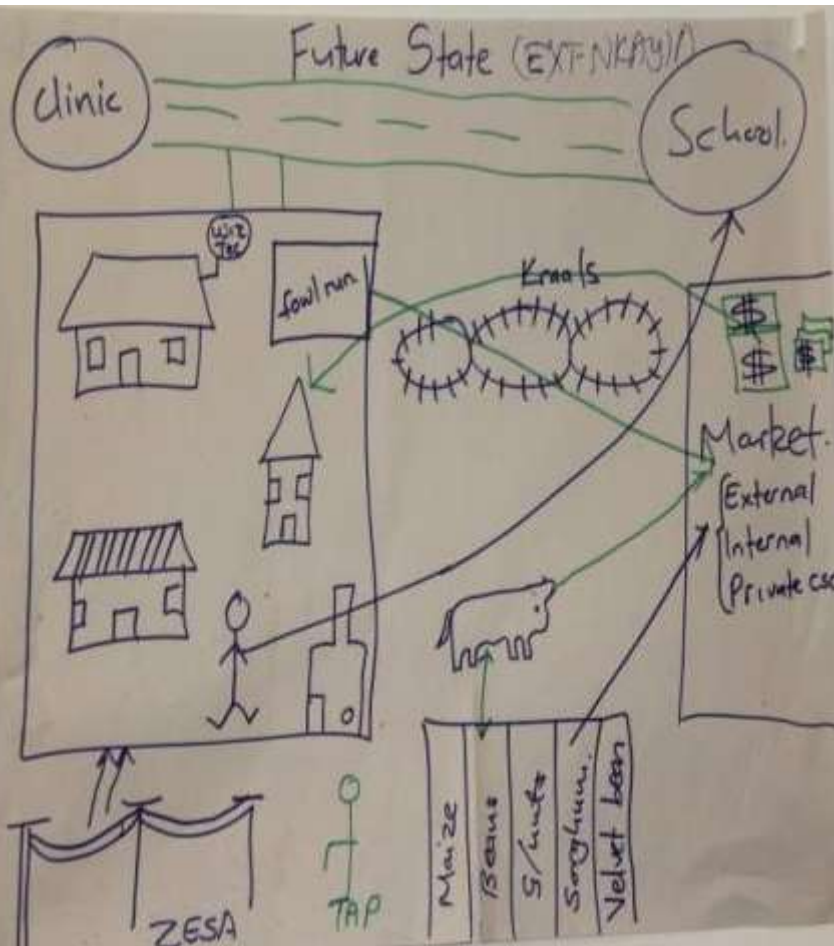
Fodder initiatives in Gwanda District



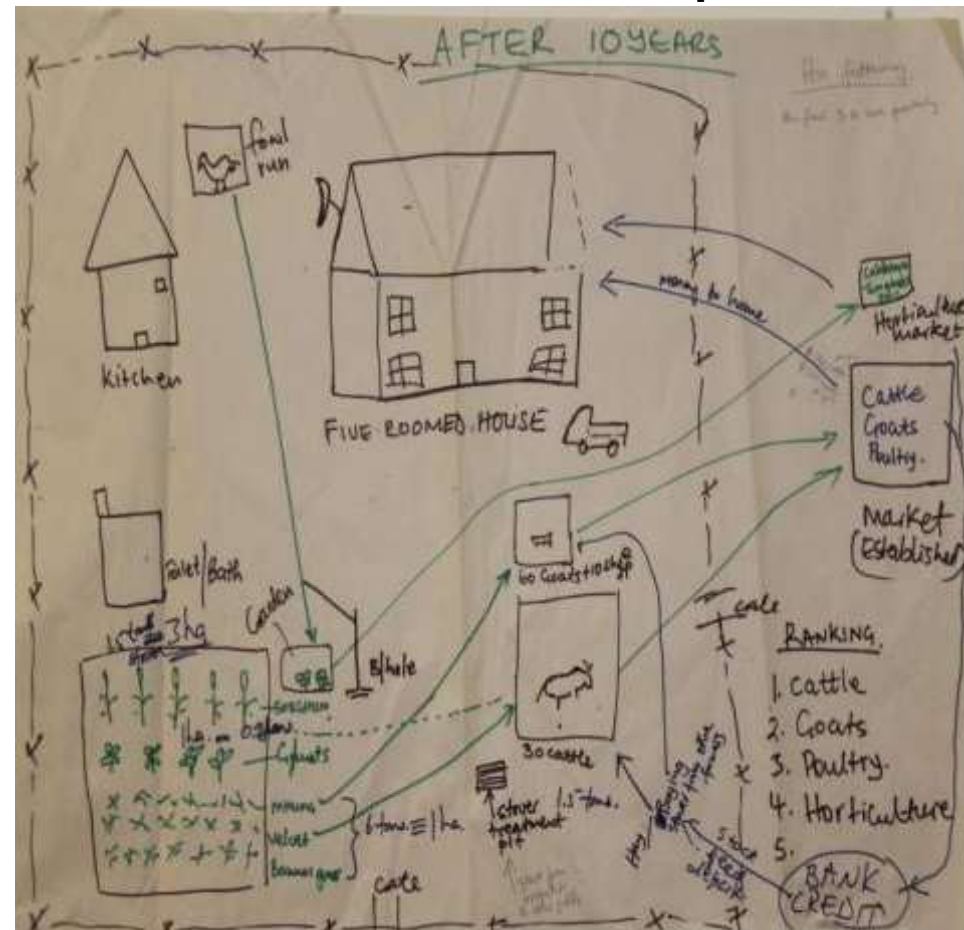
Cowpea variety selection in Goromonzi District

Using community visions to guide interventions at IP level

Nkayi:
crop-livestock intensification



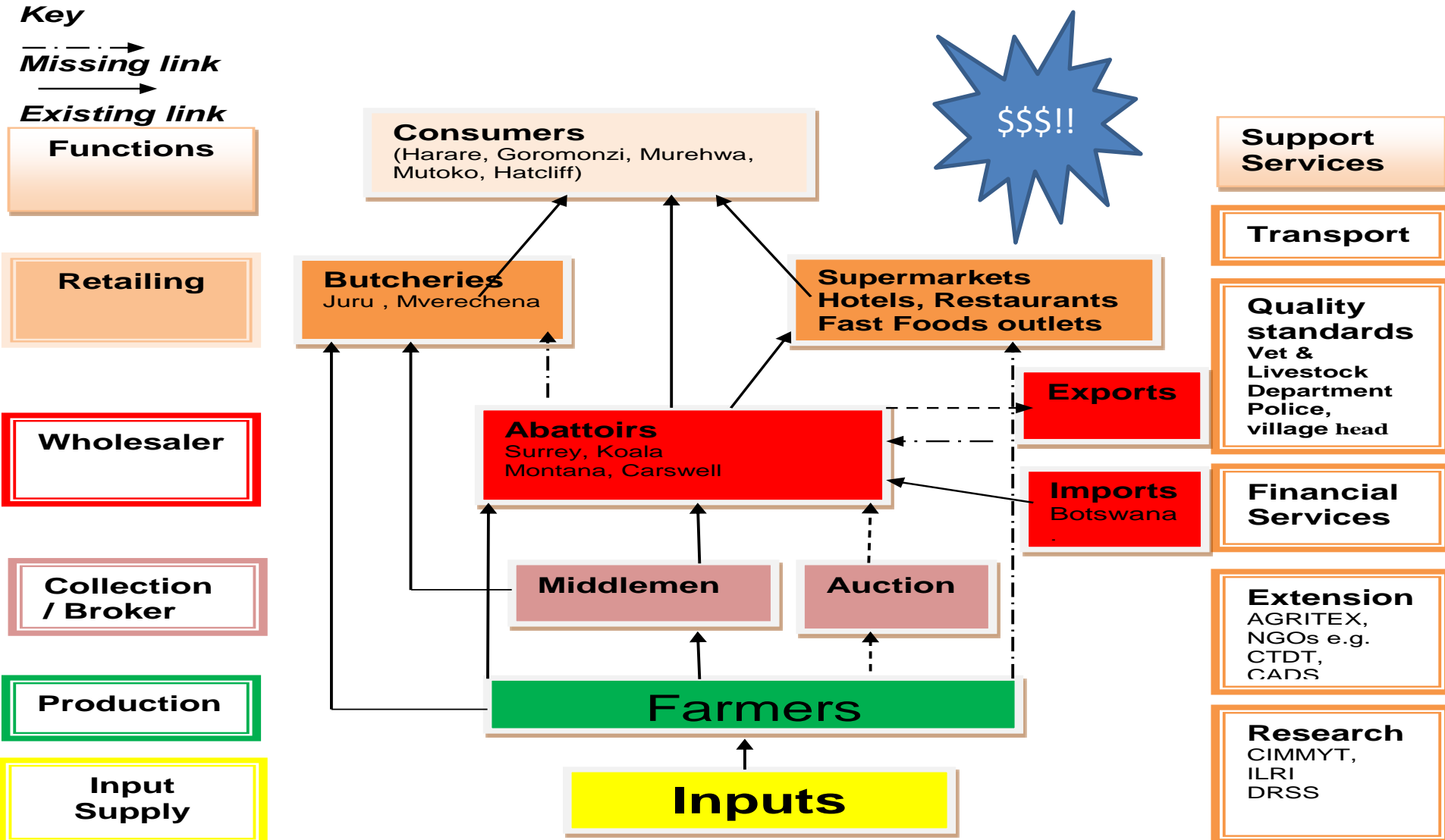
Gwanda:
livestock market-led development



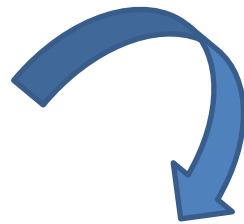
What has been happening at Value
Chain level ???

Value Chain Analysis – Beef in Goromonzi

Goromonzi Beef Cattle value Chain



What is limiting SH farmers from entering the local supermarket chains?



- Poor access to market information,
- little knowledge on marketing of livestock,
- slow technology adoption
- inferior infrastructure in rural areas.
- Risk evasiveness / Fear Factor



- Poor husbandry practices
- Neglecting niche markets



Table 3: Marketing costs incurred by a farmer in UMP District who wants to sell one cow on the Harare market (EXAMPLE)

Step	Department / Authority to visit	Purpose	Cost (US\$)
1	Police	Clearance form	free
2	Police and Vet Dept.	Transport to inspection (20-30 km radius)	25-00
3	Kraal head	Honoraria	5-00
4	Police, Vet, Kraal-head	Refreshments	5-00
5	DVS	Movement permit	10-00
6	RDC	Levy	7-00
7	Transporter	Produce to market (160 km)	50-00
8	Accommodation	Overnight stay	Free
Minimum Cost			\$102-00

What initiatives are coming from
Innovation Platforms ??

Improving feed availability through forage legume technologies

1. Utilization of leys to produce supplementary feed

- Annual / bi-annual legumes with/out CA as ley crop
- Perrennial forage legumes e.g Siratro (*M. atropurpreum*), Silverleaf Desmodium (*D. uncinatum*) leys to provide high quality feed



Forage conservation

2. Promotion of forage conservation

2.1 Hay production

Lablab purpureus

Mucuna pruriens

Cowpeas

2.2 Crop residue

maize stover

Groundnut tops



Livestock feeding and marketing demonstrations

3. Dry season feeding strategies for beef

- 3.1 Mixing legume-based protein supplements for beef
- 3.2 Improved grass hays
- 3.3 Improved use of crop residues

4. Marketing

- 4.1 Training - farming as business
- 4.2 Live animal grading
- 4.3 Linking farmer to market
- 4.4 Pricing and price negotiations



Economic analysis

Expected Sales	Control (Veld)	Mucuna	Lablab+ cowpea	Commerci al Conc.
Cattle Sale (3 per trt)	947.30	1,270.43	1,234.50	1,175.39
Expenditure				
Feed	0.00	177.99	196.09	135.64
Init. Cattle Cost	883.35	798.68	763.53	816.27
Labour	60.00	20.00	20.00	20.00
Veterinary Cost	6.00	6.00	6.00	6.00
Total Cost	949.35	1002.66	985.62	977.92
Gross Margin/(Loss)	(2.06)	267.77	248.88	197.48

Key lessons learnt

1. Identify key development drivers for SH commercial beef production
2. Creating demand for research products – creating awareness of commercial opportunities by taking farmers to markets – “seeing is believing”
3. Necessary to adapt **innovations** to prevailing circumstances together with all VC actors.
4. Farmers learn best from other farmers – identify right “guinea-pigs” to create awareness – Lead Farmer approach.
5. Farmers need mentoring to deal with aggressive private sector markets – it’s a learning process than needs min. 8-10 years!
6. From onset, encourage farmers to use their own resources for their own development and to work in groups .
7. Important to bring local agro-business dealers quickly to IPs.

Acknowledgements

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- It contributes to the CGIAR Research Program on:
 - CRP 1.1 (Dryland Systems) :-
 - SRT 2 “reduce vulnerability & manage risk”
 - SRT 3 “sustainable intensification”
 - CRP 2 (Policies, Institutions and Markets) :-
 - Theme 3 “Linking SH producers to markets.
 - CRP 3.2 (SI 2 “SI & income” and 15 “x2 Mz”)
 - CRP 3.7 (Livestock & fish) – goat, Milk VCs

