

Unlocking the potential of livestock technologies in Ethiopia: Shifting from piecemeal solutions to holistic approach

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Introduction-I

- Mismatch in DD and SS for dairy products
- Diminishing land and water resources
- Intensification of livestock production is a necessity
- Intensification involves use of new agricultural technologies and practices



Introduction-2

- Various technologies and institutional interventions promoted
- Adoption of technologies and interventions is very low
- What is holding back farmers from using technologies & interventions?



Introduction-3

- AIS recognizes innovation as a result of combination of **technical, social, institutional and organizational dimensions**
- The need for holistic analysis of transition paths of smallholder dairy
- Systemic innovation policy framework was used to assess innovation constraints in dairy sub sector



Methods

- Review of document covering 1950's to 2013
- Event history analysis was used to map interaction patterns between system functions
- Focus group discussion and key informant interview



Results- I

- Livestock development efforts focused on technical solutions to breeding, feeding and health constraints
- Social, institutional and organizational issues were treated lightly or totally neglected in R&D
- Little attention was given to organizational requirements of the innovation process in livestock sector



Results-2: Fulfilment of innovation functions

Fulfilment gradient

<i>High</i>	<i>Moderate</i>	<i>Low</i>
Knowledge development	Guidance of search	Knowledge dissemination
	Market formation	Advocacy
	Resources mobilization	Entrepreneurship

Coordination matters!



Conclusions

- R&D efforts limited to piecemeal technical solutions to constraints at one or two steps in the value chain
- Public research and extension systems could not provide institutional set up for value chain coordination
- Unlocking the full potential of dairy technologies requires suitable combination of technologies, skills and behaviour, processes and organization



Recommendations

- Research focus should be geared towards designing, prototyping and experimenting with alternative livestock value chain coordination mechanisms
- Encouraging the search for suitable models for livestock value chain coordination
- Monitoring the efficacy of alternative models of value chain coordination is essential

