



RESEARCH
PROGRAM ON
Livestock and Fish

More meat, milk and fish by and for the poor

Developing the India Smallholder Dairy Value Chain Impact Pathway(s)

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Workshop on Smallholder Dairy Value Chain Transformation in
Bihar – Challenges, Opportunities and the Way Forward
Patna, India, 1-2 August 2014



Introduction

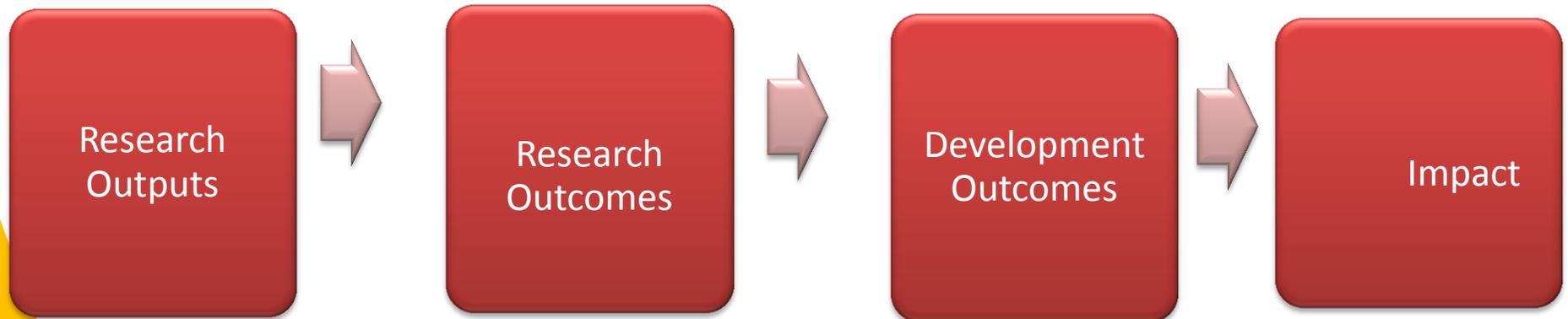
- The L&F CRP's objective in India is:
*“To sustainably **increase the productivity** of small holder daily production to **increase the supply and affordability** of milk and dairy products for **poor producers** and for **poor consumers**.”*
- However to do this?
 - ✓ Develop articulate pathways to impact with partners,
 - ✓ Identify how interventions will deliver the benefits,
 - ✓ and how actors will have to change to cause the desired outcome, will need to be clearly defined and mapped out.

Rationale

- There is an increasing expectation of the CG to demonstrate that it is making a difference in the welfare of beneficiaries
- An increasing need for development programs to monitor and adjust progress towards achieving impact
- Its important to monitor and learn during program implementation to increase the probability of progress towards impact

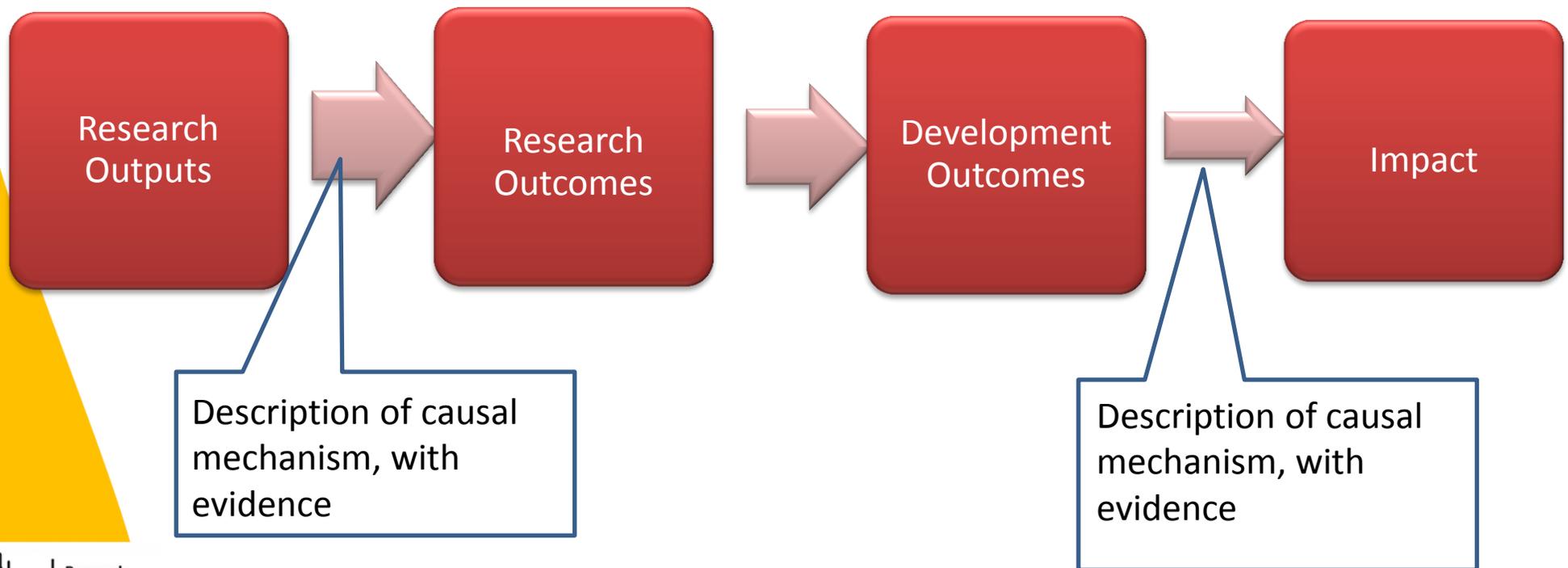
Impact pathways and Theories of Change (ToC)

- Impact Pathways (IPs) are result chains that represent the steps from outputs to impact at scale, through successive outcomes resulting from adoption and use of program outputs by various stakeholders along the paths.



Theory of change (TOC)

- ToCs extend IPs by describing the causal assumptions and risks behind these links
 - Assumptions are supporting factors and risks are confounding factors
 - If assumptions and risks associated with the arrows are identified and explained, then have a ToC.



Applications of Impact Pathways and ToCs

- Designing and planning interventions
 - ✓ Design interventions
 - ✓ Understanding and agreeing on interventions
 - ✓ Ex-ante evaluation of interventions
- Managing interventions
 - ✓ Designing monitoring and evaluation systems
 - ✓ Managing adaptively
- Assessing interventions
 - ✓ Designing evaluation questions, methods and tools
 - ✓ Making causal claims
 - ✓ Reporting performance
- Scaling
 - ✓ Generalizing of the theory to other locations

Characteristics of IPs/ToCs

- Are time dependent
 - ✓ Reflect understanding up to that point in time
 - ✓ Should evolve to reflect current thinking
- Have different purposes
 - ✓ Hence likely to be different
- Need to recognize uncertainties
 - ✓ They are deterministic
- Can be ex-ante or ex-post

So what should IPs/ToCs include?

- Research outputs
- Capacity change outcomes
- Behavioral change outcomes
- Enabling environment outcomes
- Direct benefits outcomes
- Program level impact

Research outputs

These include information, understanding and new approaches of putting research into action

- ✓ Capacity development approaches
- ✓ Professional development courses
- ✓ On the job trainings and activities

Capacity change outcomes

- ✓ Change in knowledge, awareness and skills
- ✓ Change in capacity of beneficiaries and intermediaries

Behavioral change outcomes

- Change in actual practices of beneficiaries and “next users”
 - ✓ Land use planners using GIS maps
 - ✓ Smallholders adopt improved crop varieties
 - ✓ NARES approach to soil management adapted to local conditions

Enabling environment outcomes

- New policies and policy instruments
- New or better functioning institutions (formal or informal)
 - ✓ Functional seed distribution system
 - ✓ Increased value chain productivity
 - ✓ Policies e.g better use of natural resources adopted

Direct benefits outcomes

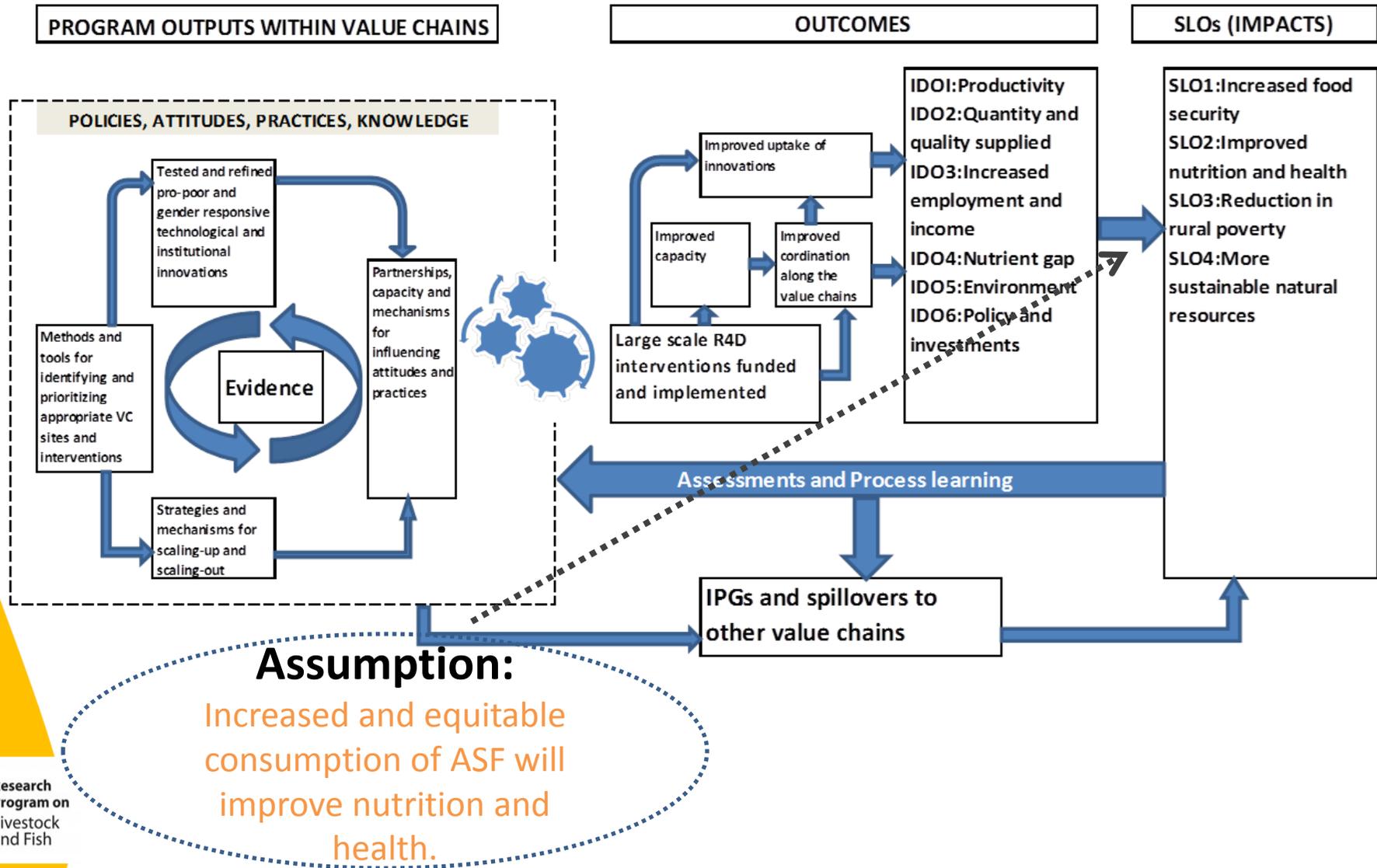
- These are largely the CRP IDOs
- Increased productivity for beneficiaries
- Improved distribution of opportunities, income, food security and nutrition benefits to the target group
- Reduced degradation of natural resources
 - Examples:
 - ✓ Increased income for smallholder farmers from adopting improved varieties
 - ✓ Increased consumption of biofortified foods
 - ✓ Reduced loss of biodiversity and genetic resources

Program impacts

- Enhanced livelihoods in target domains across the program
 - ✓ Increased food security
 - ✓ Reduced rural poverty
 - ✓ Reduced under nutrition
 - ✓ Enhanced sustainability of natural resources in target domain across program

Generic program Impact Pathway(s)/TOC

Figure 3: Livestock and Fish (L&F) Impact Pathways and Theory of Change (ToC)



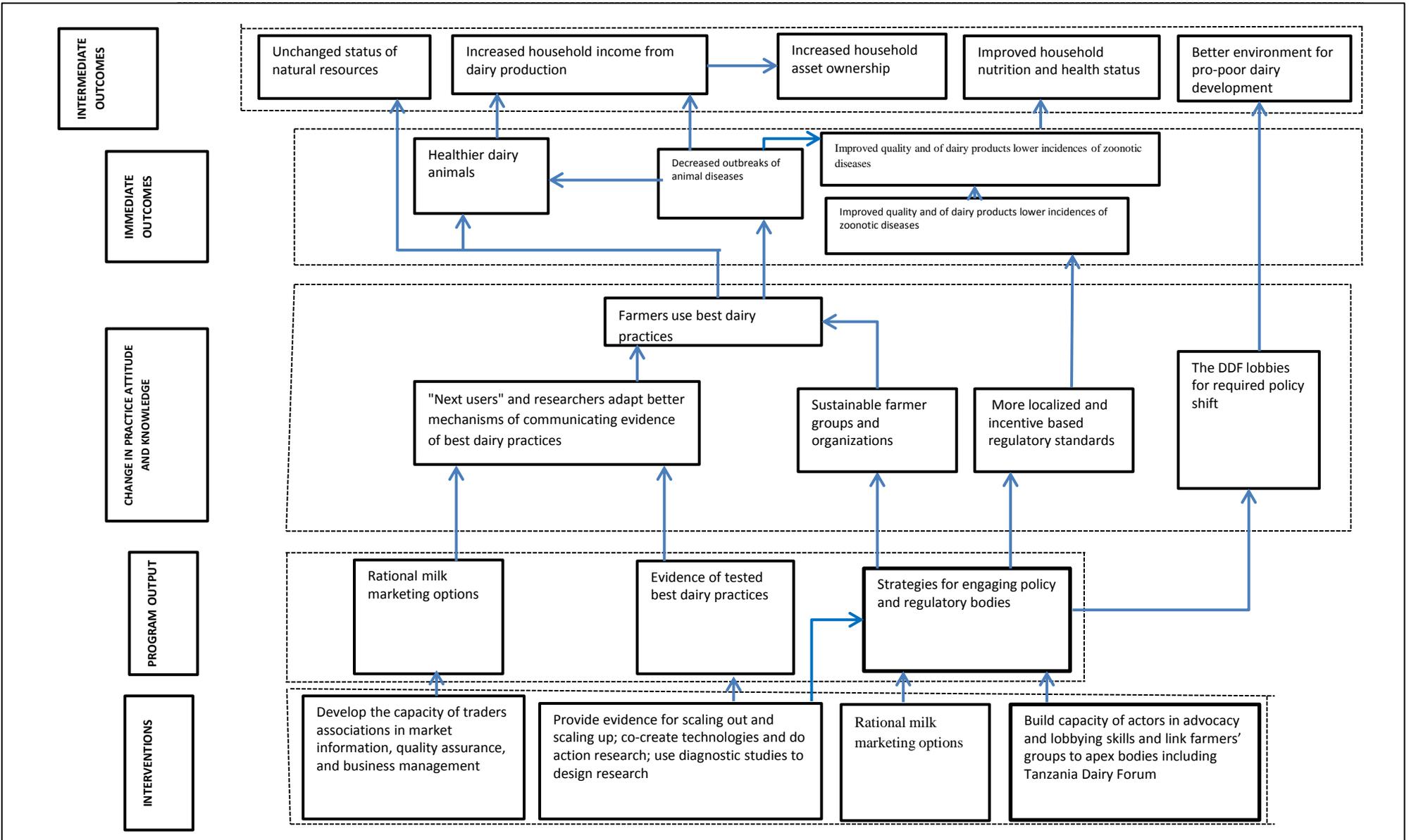
Nested value chain Impact pathway(s)/Tocs

- L&F is a complex program and needs nested IPs
- Nested IPs can be around
 - ✓ By types of strategies being applied
 - ✓ By target groups
- In our case they are the value chains
- So far we have developed IPs for:
 - ✓ Tanzania,
 - ✓ Uganda,
 - ✓ Nicaragua,
 - ✓ Vietnam, Ethiopia and Egypt.
- These allow closer monitoring, evaluation and learning at the value chain level

An example of a nested IP from Tanzania dairy value chain:

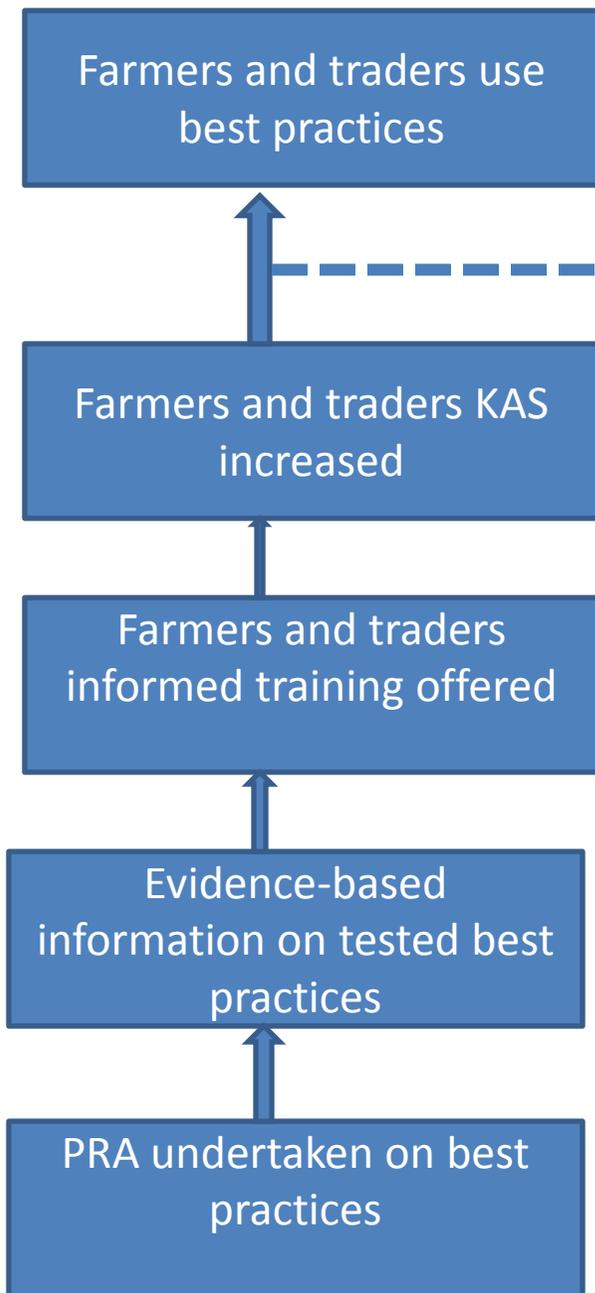
*“Systems assessment to support
value chain transformation”*

Impact Pathway 3: Systems assessments to support value chain transformation.



An example of a sub-ToC from “*Innovative strategies to increase consumption of dairy products*” impact pathway:

“Dairy practices for farmers and traders Toc”



Assumptions:

- Practices are inexpensive
- Actors can see the benefits
- Regulations are supportive
- Actors are subsidized for social cost avoidance
- There is incentive to adopt the best practices
- Collective action occurs

Examples of research questions from the assumptions:

- How to best convince actors to adopt?
- What incentives might be used?
- How can benefits from new practices be widely demonstrated?
- Which regulatory regime is best suited to facilitate and support the new best airy practices?

Program M&E/IA next steps

- Develop and publish the Bihar Dairy Value chain ToC/IP narratives
- Develop the Bihar Dairy value chain L&F specific MEL frameworks based on the value chains Impact Pathway(s) and ToCs
- Support ongoing value chain evaluations to continue testing L&F Theory of change

Objectives of the workshop

- ✓ Communicate and validate the program's intervention logic,
- ✓ Question and clarify the program's potential for achieving impact,
- ✓ Begin to lay the building blocks for designing a MEL framework,
- ✓ Refine the theories of change and the underlying assumptions of causality for the four main intervention areas of the Bihar Dairy Value chain,
- ✓ Sketch the impact pathways of the four components.

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