1 Research questions

In dairy intensification process, what are the:
- strategic management decisions that farmers make in the face of many opportunities and constraints?
- sustainability indicators and sustainable pathways?

2 Findings

Strategic management decisions made reflect intensification levels and concern whether to reduce cost of production, build entrepreneurial skills, participate in processed milk supply chains or to rely on traded feed and fodder with a trade-off in manure accumulation on the farms.

Sustainability indicators are land use intensity, access to external inputs and services, and markets where milk is traded.

Three options to sustainable intensification pathways are participating in local raw milk chains, processed milk supply chain or in niche chains for high quality dairy products.

3 Methodology

- MESMIS framework approach in case studies, interviews with value chain actors and literature reviews
- SWOT analysis of sustainability indicators and alternative sustainable pathways

4 Results

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<th>Sustainable Dairy Intensification Pathways</th>
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5 Conclusion

Large differences in dairy production intensification process resulting from a variety of farming systems are evident. Land pressure in the highlands and climate effects in the coastal lowlands are production limiting factors.

The strategies for sustainable intensification differs between the levels of intensification with distinct features being land use intensity, access to external inputs and services, and the markets where milk is traded.

Farmers choose their dairy intensification pathway from three alternatives on the criteria of trade-offs between economic, social and environmental sustainability issues of concern to them.