## Maziwa Zaidi (More Milk) in Tanzania Assessing sustainability of milk production in Tanzania

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#### Key messages

- Sustainability of Tanzania's milk production requires an assessment to monitor its progress.
- This study developed a milk production farm sustainability assessment tool and applied it to assess the sustainability of smallholder dairy and traditional milk production systems in four districts of Tanzania.
- The overall sustainability performance index was weak; some key sustainability performance indicators like income, cow productivity, participation in trainings and organizations and land ownership were weak to moderate.

#### **Objectives and approach**

- This study assessed sustainability of smallholder dairy and traditional cattle milk production farms in Tanzania.
- A set of relevant economic, social and environmental sustainability indicators were selected using the Delphi approach.
- A sustainability assessment tool was developed based on the identified indicators and applied on 431 farms in Kilosa, Mvomero, Handeni and Lushoto districts
- The performance indices were ranked from 0 to 1→weak: (0; 0.33); moderate (0.34; 0.66); high (0.67; 1).

#### **Key results**

- The study generate a milk production farm sustainability assessment tool made of fifteen indicators, which cover economic, social and environmental dimensions of sustainability.
- The overall sustainability mean performance index was weak (0.30±0.15)
- The economic, environmental and social sustainability performance dimensions were weak (<0.33)
- Some key performance indicators like income, cow productivity, participation in organizations and trainings, gender and land ownership were weak to moderate (from 0 up to 0.66)

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# **Opportunities for inclusive investment and scaling**

- **Public and private sector:** using the developed tool to monitor sustainability of milk production farms in the study context; improving farmer knowledge on farm management through training and education; establishing and strengthening farmers' organizations for better access to inputs, services and market through collective action.
- **Private sector:** Creating a conducive environment by establishing active milk collection centers and set a better milk price
- **Public sector**: Sensitization on use of environmentally friendly practices and improve land ownership.



#### Table 1: Weight of sustainability indicators

Fig 1: Farm sustainability performance indicators in smallholder dairy and traditional milk production systems in Tanzania



Environment

Fig 2: Sustainability performance indicators per milk selling systems in Morogoro and Tanga Regions, Tanzania



0.00