# Using climate smart Brachiaria mutants to develop integrated farm model technologies for the improved livelihood among small holder farmers

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**Center(s):** KALRO Lanet  
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**Problem Statement:** Persistent shortage of livestock feeds due to frequent droughts is a constraint to livestock productivity. Therefore qualitative nutritious forage like Brachiaria can sustain livestock productivity  
**Objective(s):** To improve food security through enhanced animal productivity by use of mutation breeding  
**Planned Activities:**  
1. To conduct field experiments and collect germplasm  
2. On-farm testing of the germplasm  
3. On-station bulking of the germplasm  
4. Technology packaging  
5. Technology dissemination  
**Outputs:**  
1. To increase drought tolerant herbage  
2. Technology dissemination  
3. Increase animal productivity  
**Outcomes:**  
1. Farmers access high farm productivity and high income  
2. Farmers access high performing pasture and fodder  
3. Variety development through mutation breeding  
**Budget:** 18,343,260.00  
**Start date:** 2016-01-01  
**End date:** 2017-12-31  
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**Collaborators:** UoN; UoE; KALRO-NARL; BIOZEQ INTERNATIONAL;