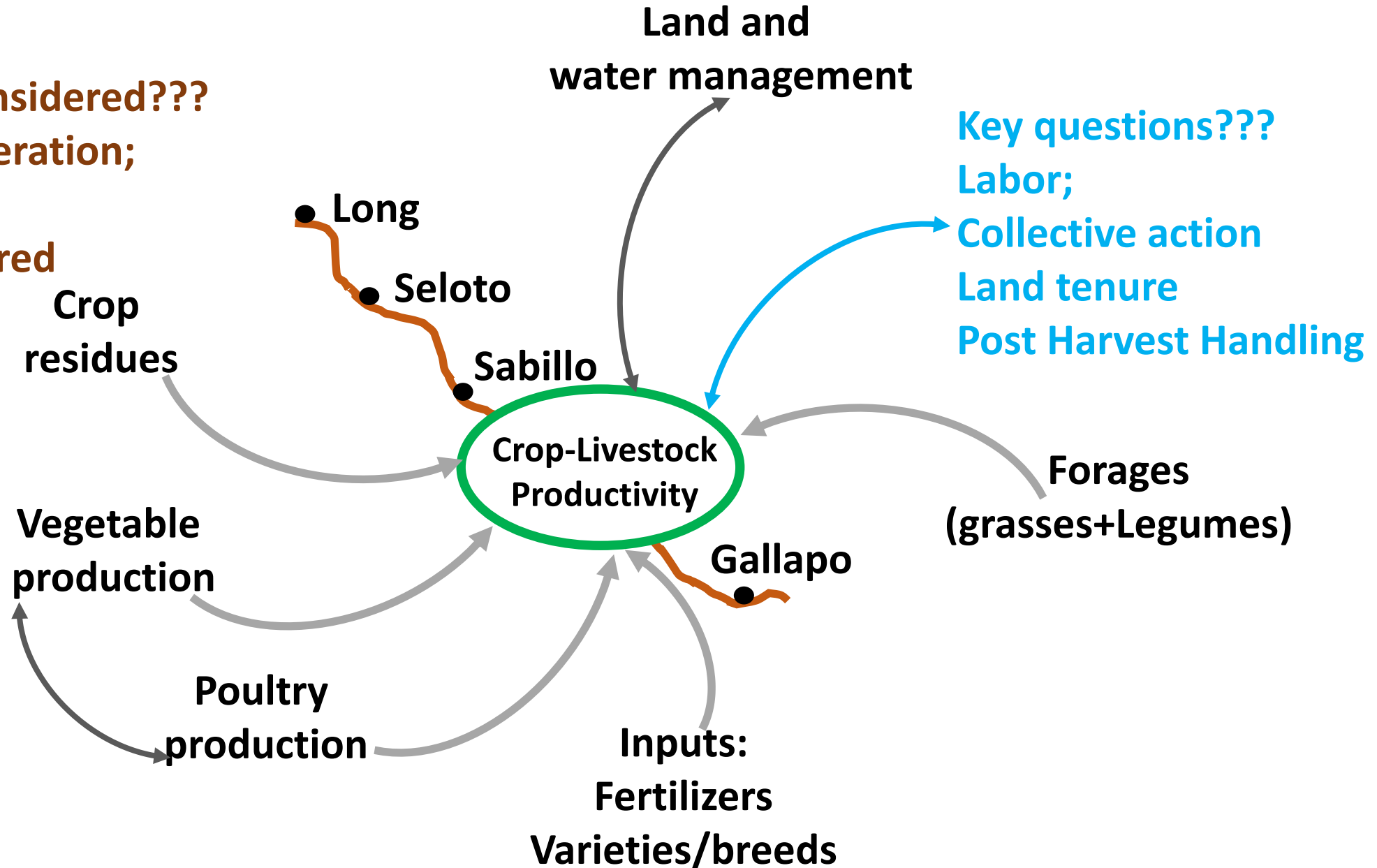


# How can we increase crop livestock productivity along an agro-ecological gradient?

Have we considered???

- Scale of operation;
- Gender
- M&E captured
- Economics
- COMMs



**Forage water relations for increased biomass**

**The Role of Forages in Sustainable Intensification of Crop-Livestock Agro-ecosystems in the Face of Climate Change: The Case for Landscapes in Babati, Northern Tanzania**

F. Kizito, B. Lukuyu, G. Sikumba, J. Kihara, M. Bekunda, D. Bossio, K.W. Nganga, A. Kimaro, H. Sseguya, B. Jumbo and P. Okori

**Abstract** Agro-ecosystem productivity is highly dependent on soil moisture fluxes yet climate change induces unpredictable dynamic interactions on water and nutrient resources. This study assessed on-farm seasonal productivity, runoff and soil moisture storage estimates within forage grass and forage legume intercrops at the Long site in Babati District of Northern Tanzania and how these would be impacted by climate change. The WaterWorld model was used to ascertain the

