



Alliance



Understanding the potential contributions of ISFM to various sustainable intensification impact domains

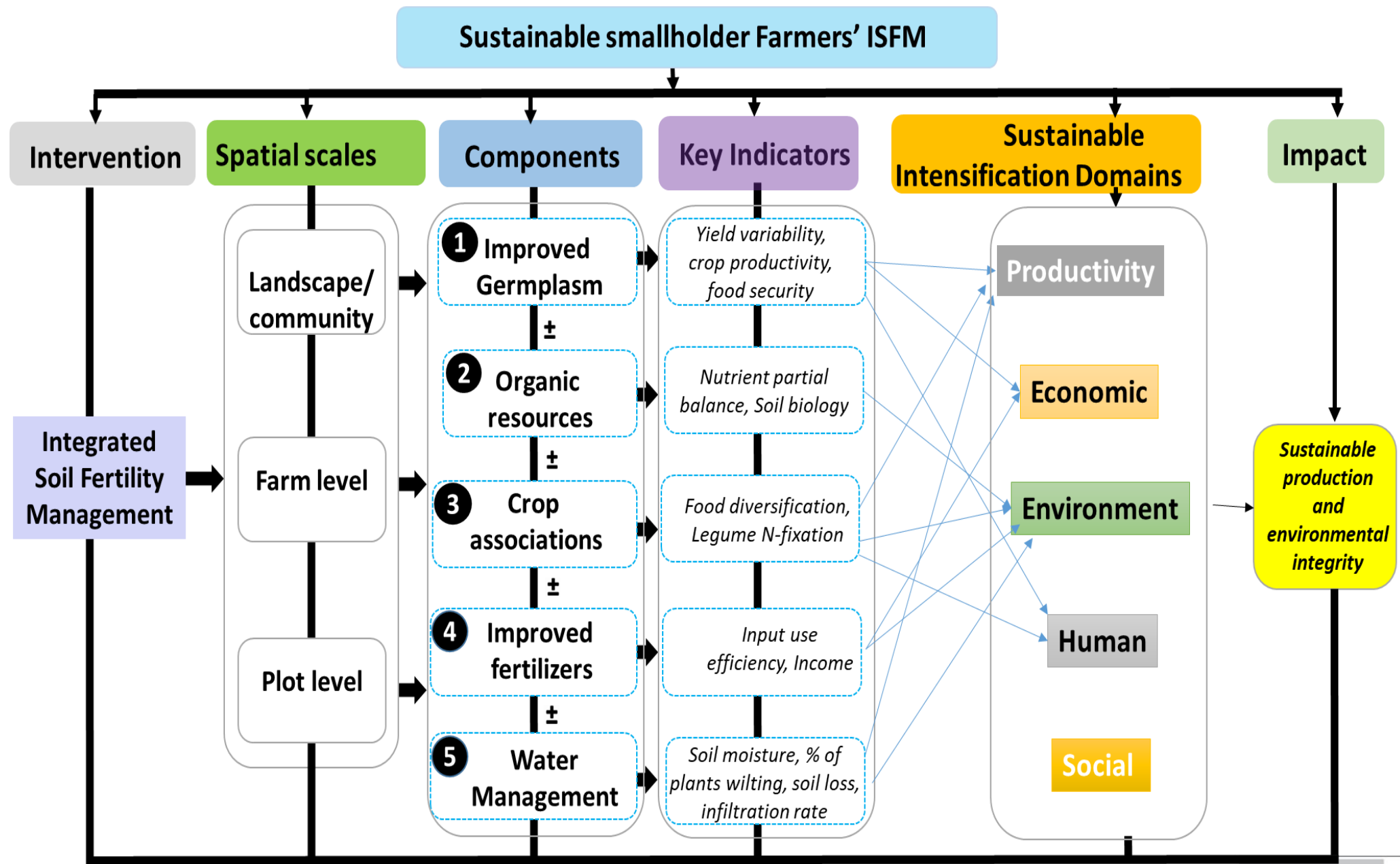
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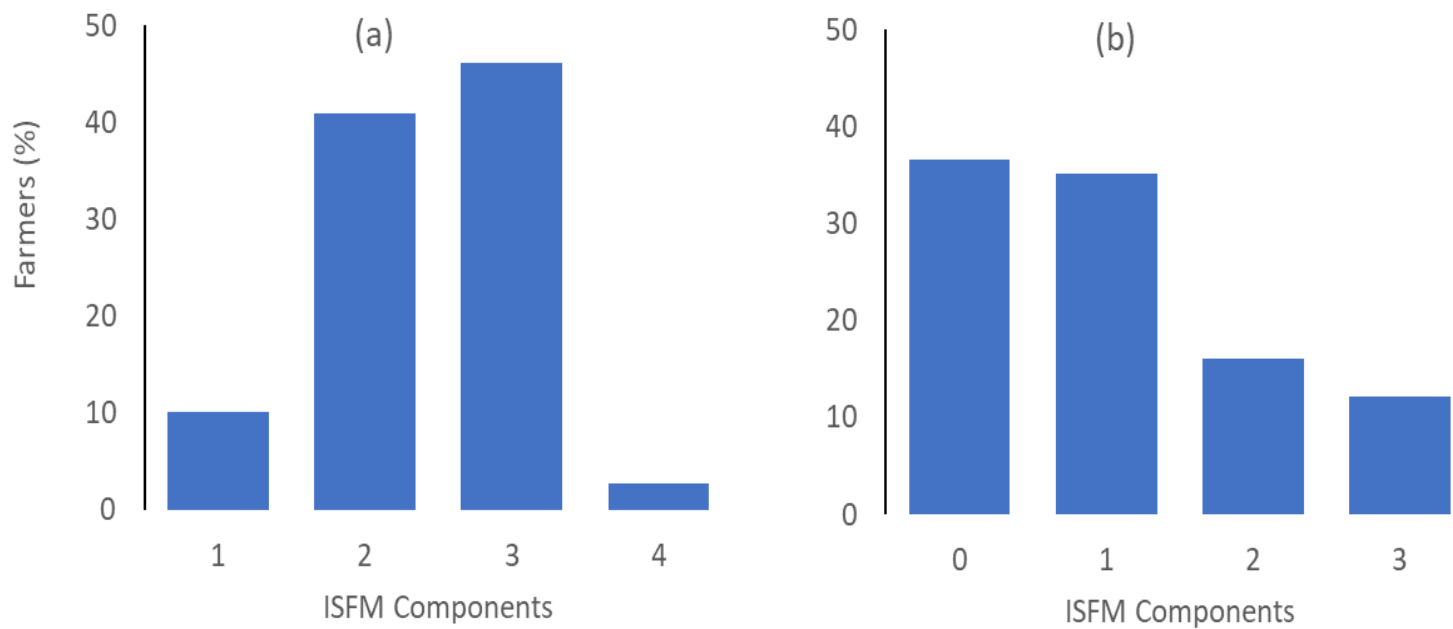




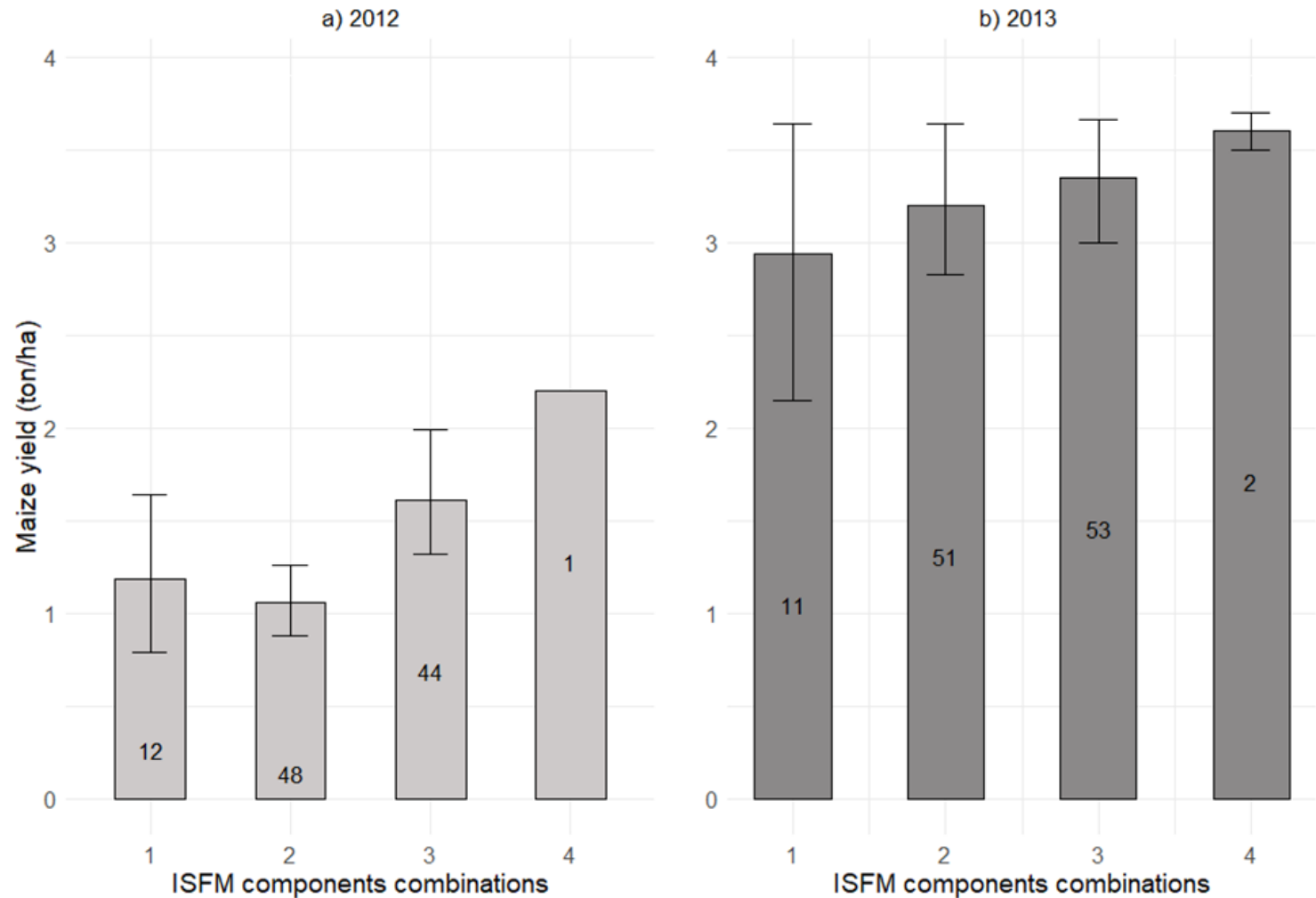
Experimental and survey data gathered

Trial aim	Trial type	Scale	Region
Variety interactions with soil and water conservation	Mother	Plot level	Kongwa Kiteto
Situational analysis agronomic survey of 2012/13	Survey	Plot level	Babati
Fertilizer microdosing benefits across multiple farms of 2016	baby	Plot level	Babati
Increasing legume productivity	Mother	Plot level	Babati
Variety performances in different agroecological zones	Mother	Plot level	Kongwa Kiteto

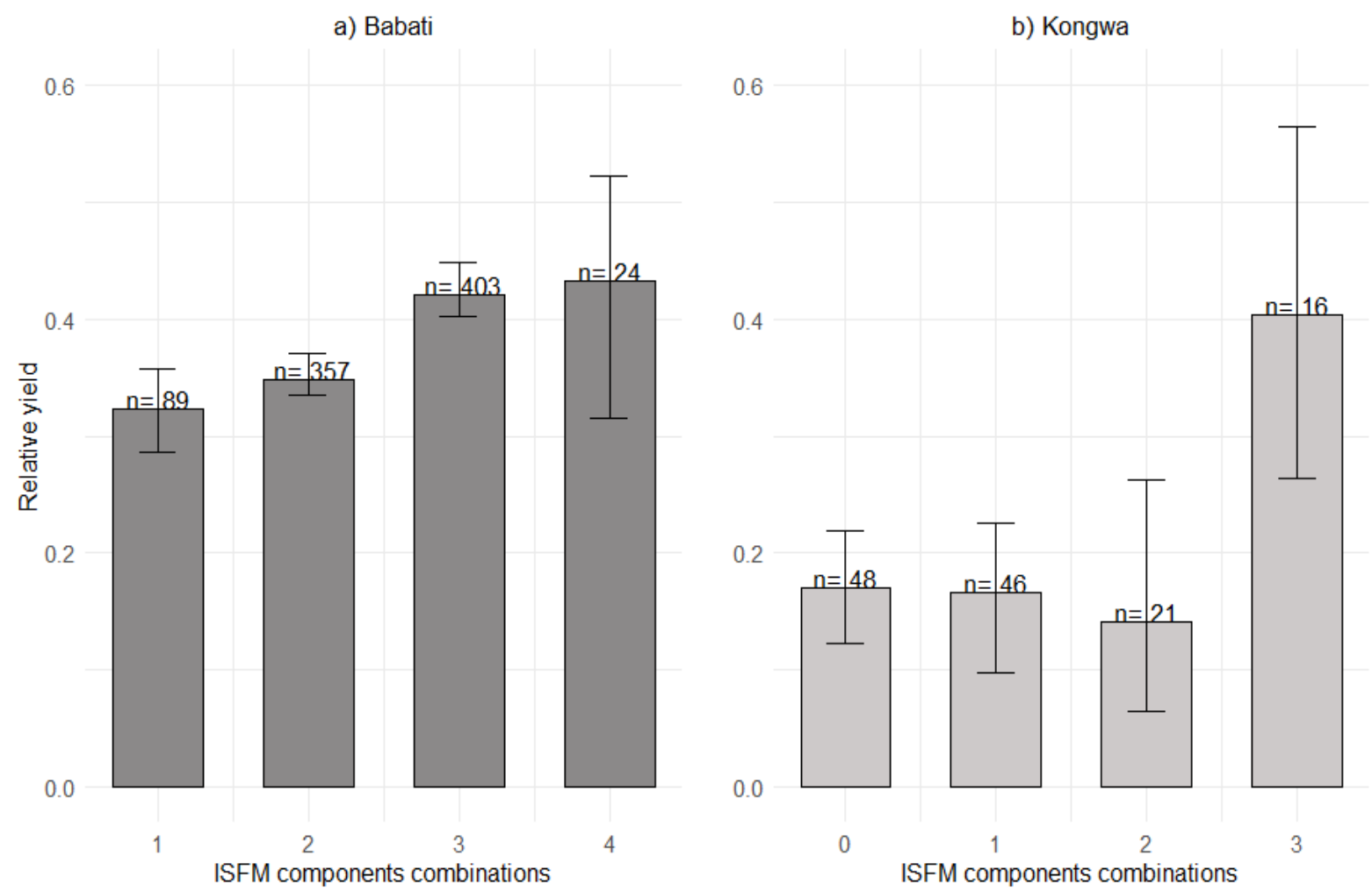
Distributions of application of ISFM components among farmers in Babati (n=873) and Kongwa Kiteto (n=131)



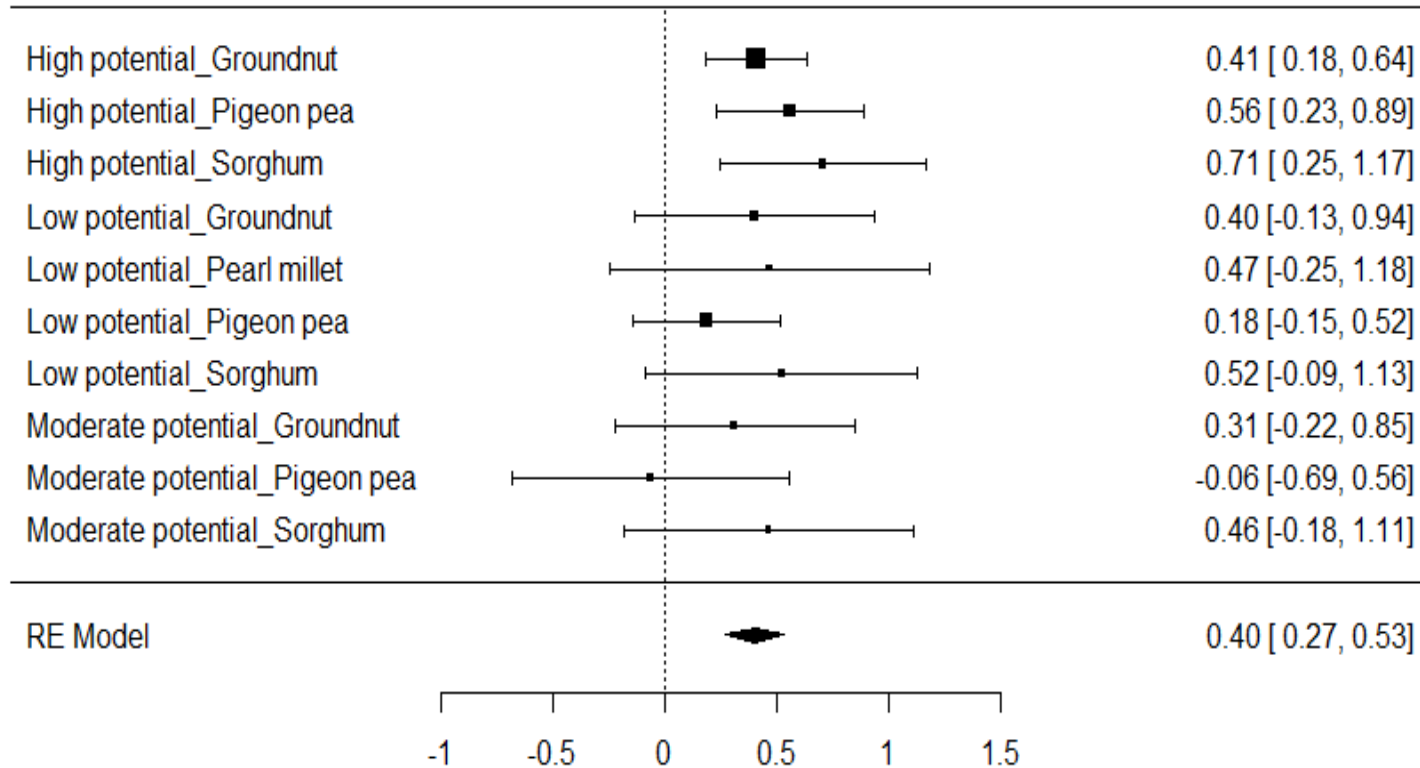
Effects of ISFM components on the maize yields in Babati in 2012 (a) and 2013 (b)



Relative yields in Babati in 2012 (a) and 2013 (b)




Role of improved varieties



Effects of on gross margins and whole farm income

ISFM Components	Baby trials 2016	Plot and household survey 2020 [€]
0		102.0±34.1 (48)
1	851.1±110.5 (45)	148.0±55.6 (54)
2	1114.5±130.1 (92)	252.4±66.1 (51)
3	1272.3±174.7 (62)	412.8±103.4 (42)
4	1222.0±180.6 (13)	548.6±161.0 (22)

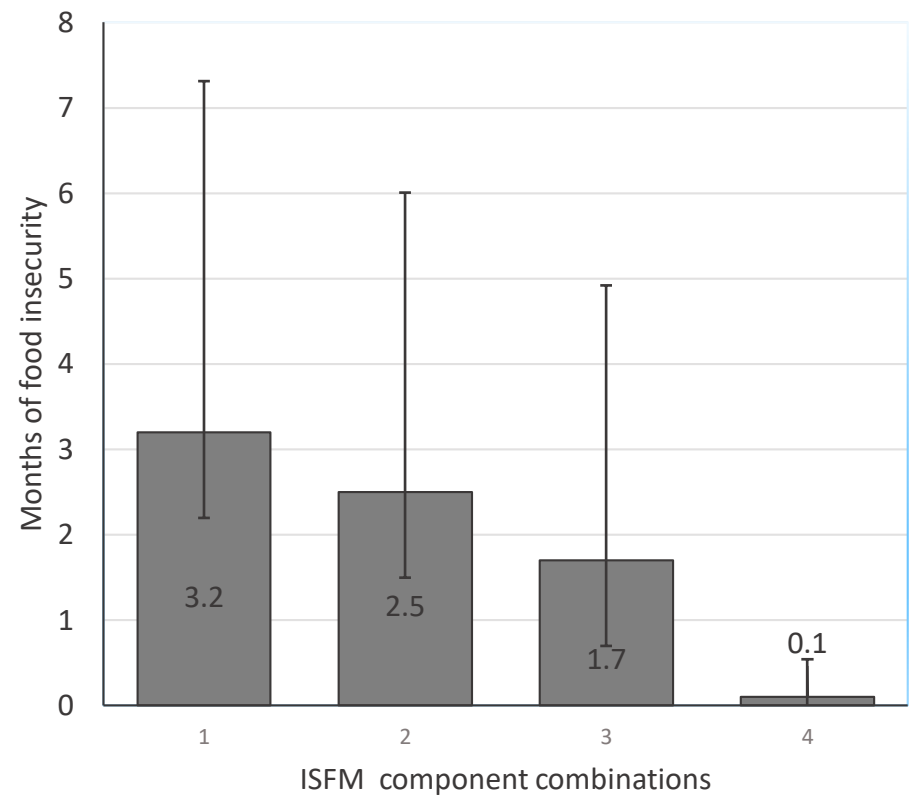
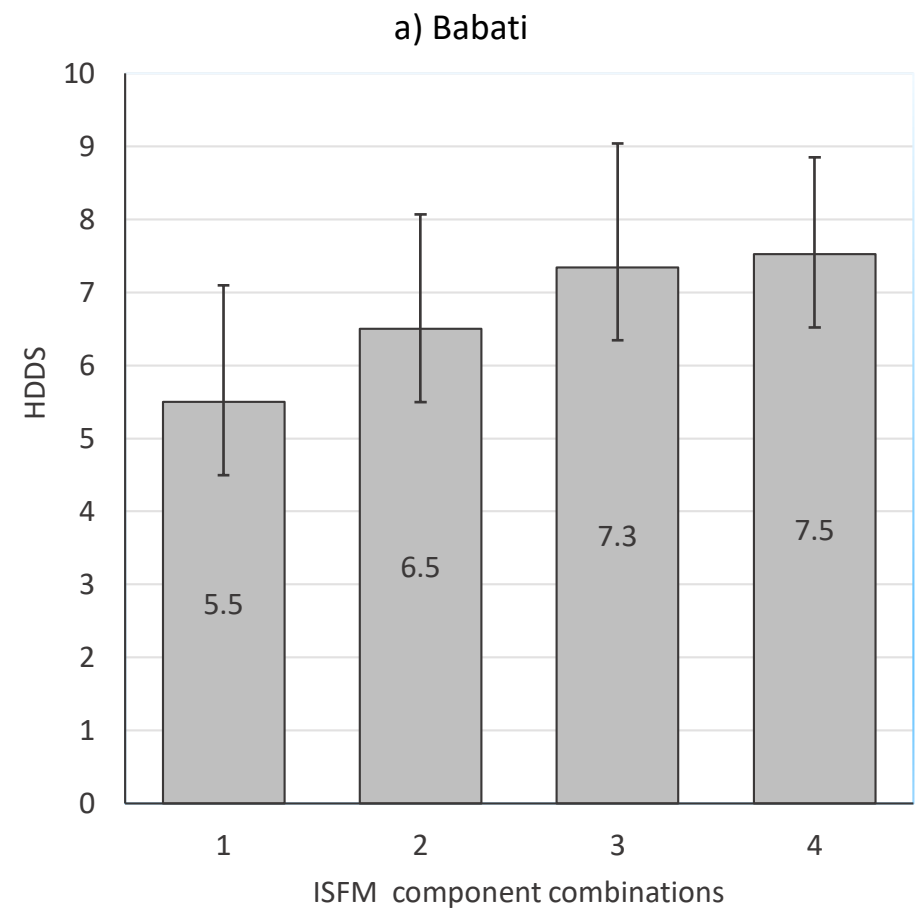


ISFM component	Babati (N=86)	Kongwa (N = 131)	All (N=217)
0		39.6	39.6
1	58.7	63.3	62.7
2	140.6	32.6	96.1
3	101.8	43.6	80.5
4	122.6		122.6



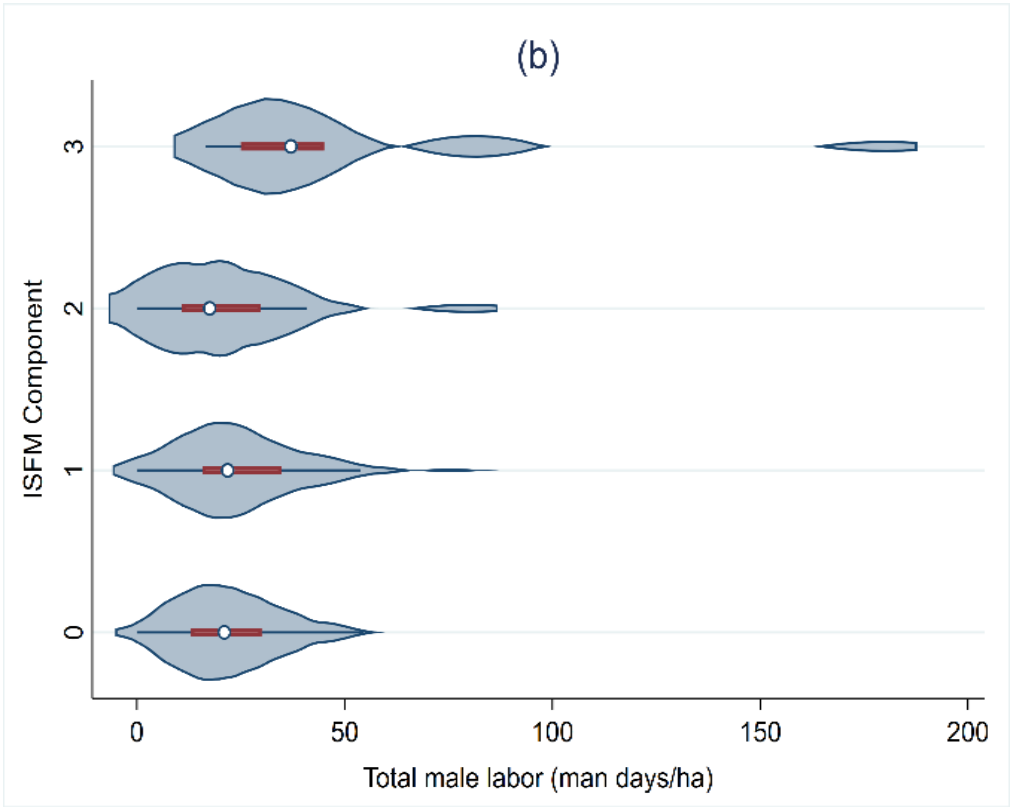
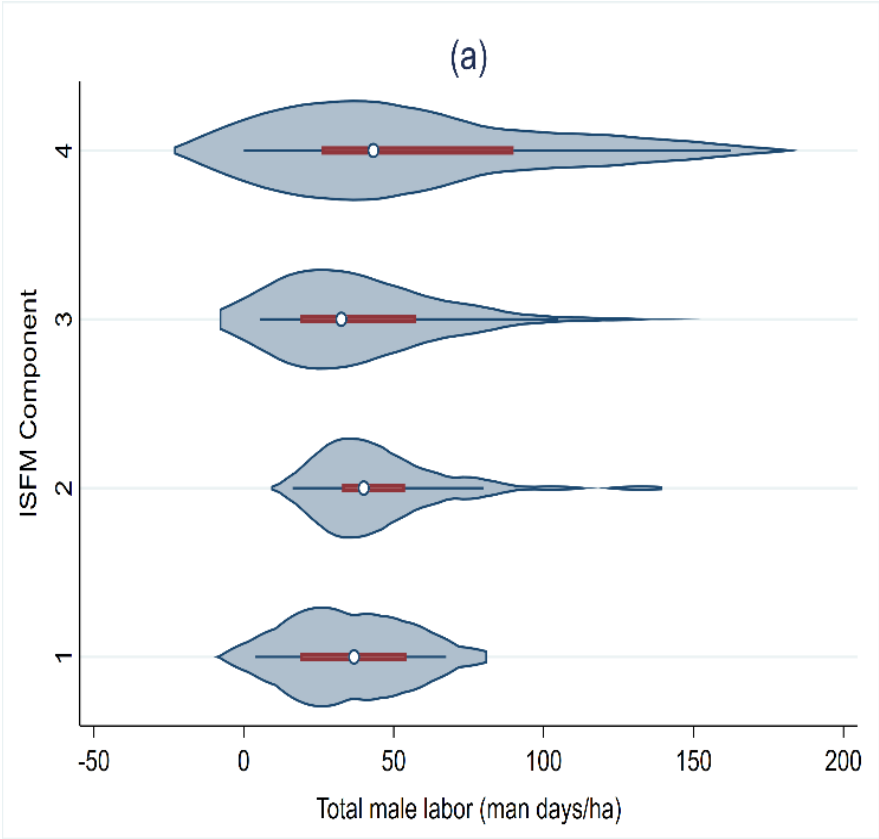
- Farmer recalls of 2012
- Survey/yield cuts of 2013
- Coupon of 2014
- Farmer recalls of 2016

Food insecurity

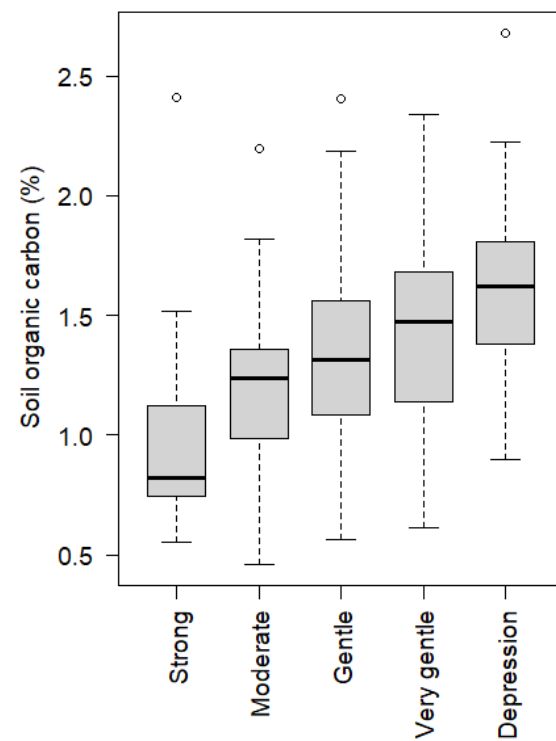


HDDS=Household dietary diversity score

Labour requirements in Babati (a) and Kongwa (b)



On-farm complexities



Improving crop configurations





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Thank you!

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Bioversity International and the International Center for Tropical Agriculture (CIAT) are CGIAR Research Centers.
CGIAR is a global research partnership for a food-secure future.