



Africa RISING in East and Southern Africa: Some phase I achievements

Mateete Bekunda

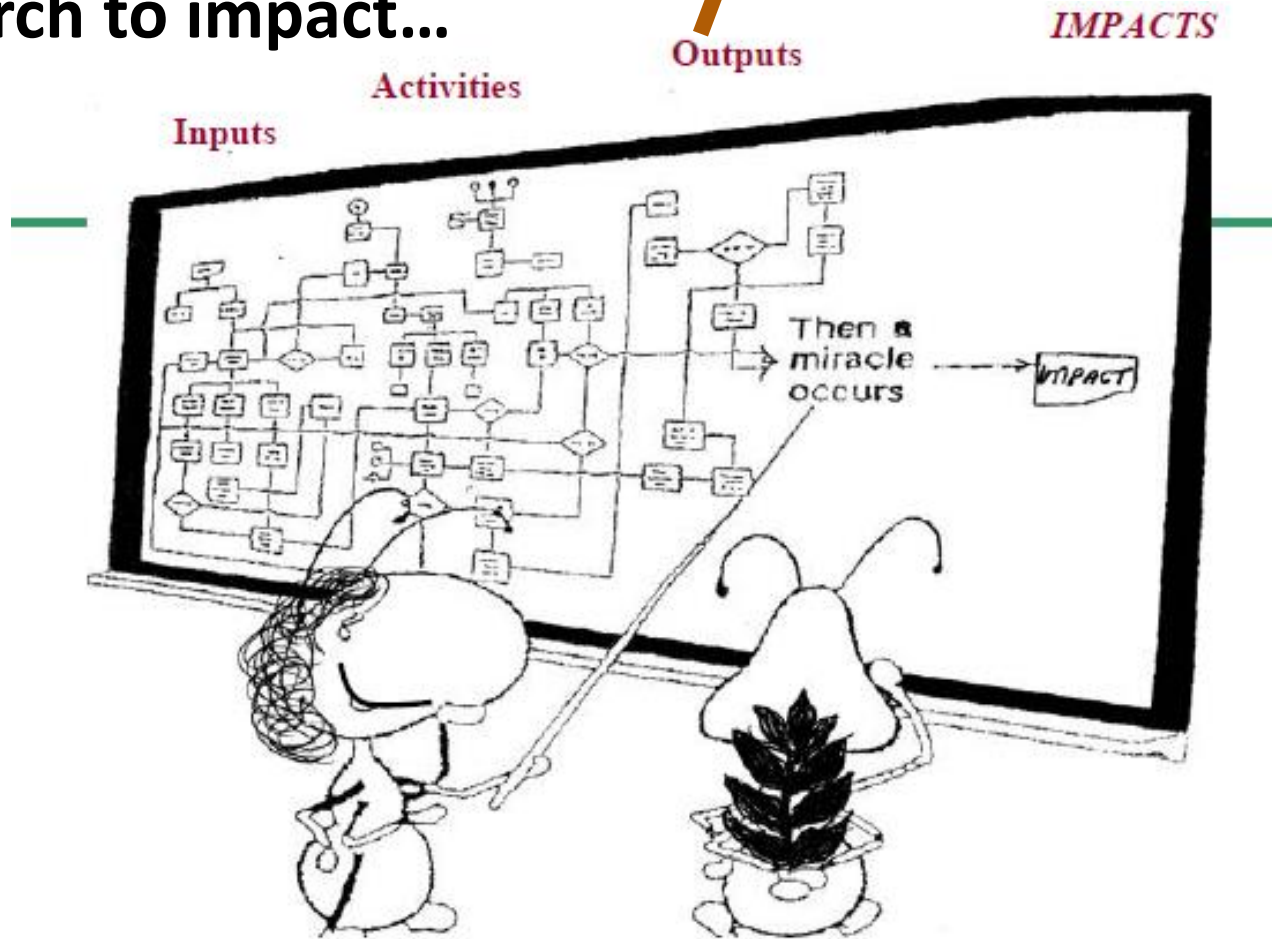
Africa RISING Science for Impact Workshop
Dar es Salaam, 17-19 Jan 2017





Science Event

Research to impact...



That's great, but I think we might need just a *little* more detail right here.

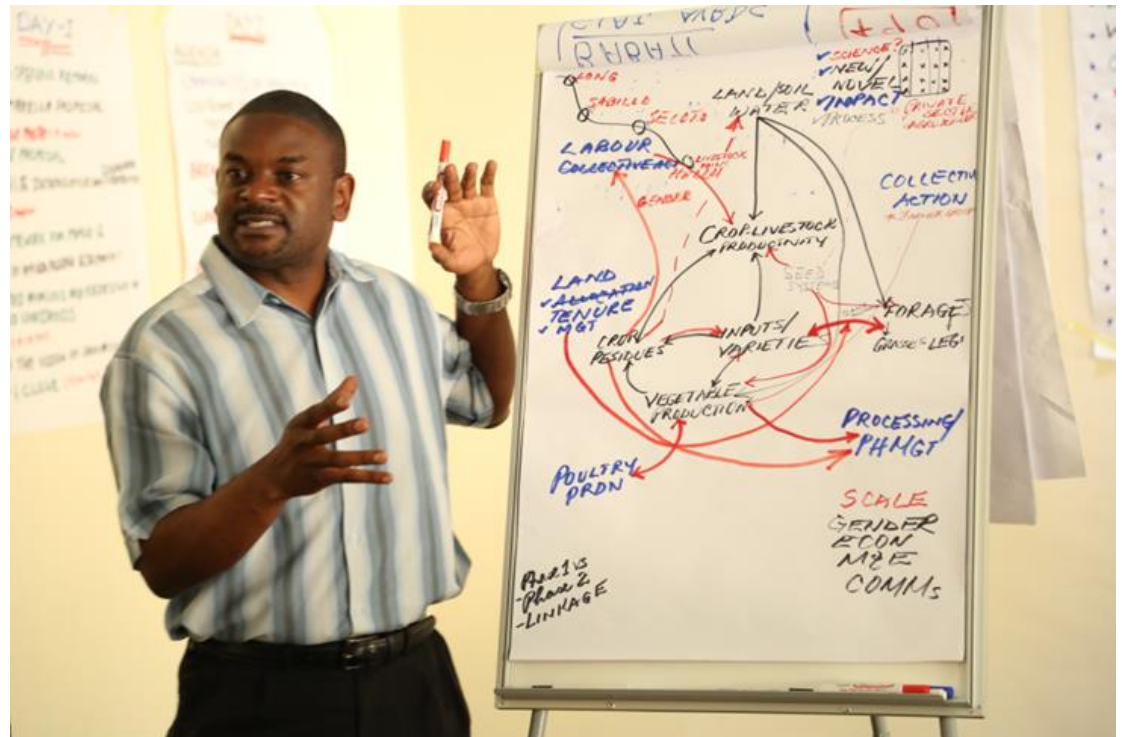


Inputs:

- Resources from the donor – Phase II
- Resource persons – research partnership

Activities:

- Baselines
- Integrated research to meet SI requirements leading to **OUTPUTS**





Africa RISING ESA Baseline Publications

Kihara, J., Tamene, L.D., Massawe, P. & Bekunda, M. (2015). Agronomic survey to assess crop yield, controlling factors and management implications: a case-study of Babati in northern Tanzania. *Nutrient Cycling in Agroecosystem*, 102: 5-16.

Abass, B.A., Ndunguru, G., Mamiro, P., Mlingi, N.A., & Bekunda, M. (2014). Post-harvest food losses in a maize-based farming system of semi-arid savannah area of Tanzania. *Journal of Stored Products Research*, 57:49-55.

Ortega, D.L., Waldman, K.B., Richardson, R.B., Clay, D.C. and Snapp, S. (2016). Sustainable intensification and farmer preferences for crop system attributes: Evidence from Malawi's central and southern regions. *World Development*, 87:139–151.

Hockett, M. and Richardson, R.B. (2016). Examining the drivers of agricultural experimentation among smallholder farmers in Malawi. *Experimental Agriculture*. *In press*.

Snapp, S., Kerr, R.B., Smith, A., Ollenburger, M.H., Mhango, W., Shumba, L., Gondwe, T. & Kanyama-Phiri, G.Y. (2013). Modeling and participatory farmer-led approaches to food security in a changing world: A case study from Malawi. *Sécheresse*, 24:350–358.

Nassoro, Z., Rubanza, C.D.K. and Kimaro, A. (2015). Evaluation of nutritive value of browse tree fodder species in semi-arid districts of Tanzania. *Agriculture and Environment*, 13:113-120.

Tamene, L., Mponela, P., Ndengu, G., & Kihara, J. (2016). Assessment of maize yield gap and major determinant factors between smallholder farmers in the Dedza district of Malawi. *Nutrient Cycling in Agroecosystems*, 105: 291-308

Smith, A., Snapp, S., Chikowo, R., Thorne, P., Bekunda, M. & Glover, J. (2016). Measuring sustainable intensification in smallholder agroecosystems: a review. *Global Food Security*. *Global Food Security*, <http://dx.doi.org/10.1016/j.gfs.2016.11.002,1-12>

Haile, B., Azzarri, C., Roberts, C. and Spielman, D. J. (2016), Targeting, bias, and expected impact of complex innovations on developing-country agriculture: evidence from Malawi. *Agricultural Economics*. doi:10.1111/agec.12336



Africa RISING ESA Innovations Publications:

Snapp, S. & Fisher, M. (2015). Filling the maize basket supports crop diversity and quality of household diet in Malawi. *Food Security*, 7:83-96.

Chikowo, R., Zingore, S., Nyamangara, J., Bekunda, M., Messina, J., & Snapp, S. (2015). Approaches to reinforce crop productivity under water-limited conditions in sub-humid environments In: *Sustainable intensification to advance food security and enhance climate resilience in Africa.* (Lal, R., Mwase, D, Hansen, D., Eds. Springer. pp235-254

Smith, A., Snapp, S., Dimes, J., Gwenambira, C. and Chikowo, R. (2016). Doubled-up legume rotations improve soil fertility and maintain productivity under variable conditions in maize-based cropping systems in Malawi. *Agricultural Systems*, 145:139–149.

Kizito, F., Lukuyu, B., Sikumba, G., Kihara, J., Bekunda, M., Nganga, K.W., Kimaro, A., Sseguya, H., Jumbo, B., & Okori, P. (2016). 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 In: *Climate change and multi-dimensional sustainability in African agriculture: Climate change and sustainability in agriculture.* Lal R., Kraybill, D., Hanses, O.D., Singh, R.B, Mosogoya, T., Eik, O.L, Eds. Springer. pp411-430



Miracles have started happening

Africa RISING posters on scaling techniques win top honours





Capacity building (graduate)

- 5 PhD (1 graduated)
- 24 MSc (6 graduated)

Communication

How can we blow our trumpets better?



Thank You

Africa Research in Sustainable Intensification for the Next Generation

africa-rising.net



This presentation is licensed for use under the Creative Commons Attribution 4.0 International Licence.