# **Sorghum Technology Transfer in Uganda**

Kayuki Kaizzi<sup>1</sup>, Charles Wortmann<sup>2</sup>, John Ebyau<sup>3</sup>, Angela Nansamba<sup>1</sup>, NARL, P.O. Box 7065, Kampala Uganda; <sup>2</sup>Univ of Nebraska, and <sup>3</sup>NaSARRI, Soroti, Uganda

Fig. 1. Dr. Kaizzi (middle) and colleagues in eastern Uganda. Angela (left) is an **INTSORMIL-supported MSc student.** 



#### **Information dissemination** Led by NARL

•35 sub-counties in 8 Soil fertility management, water productivity and strigaresistant varieties are emphasized. districts (Fig. 2) by

•Enhanced water productivity is addressed through reduced tillage and improved soil fertility; reduced tillage increased •Initiated in 2010 yield by 37% and greatly increased profitability in farmer •348 demonstrations managed trials (Fig. 4). with yield data

•Options for improved soil fertility management include application of moderate rates of N and P, mucuna as a green attended field days manure cover crop that also suppresses weeds (Fig. 4, 5), •Leaflets and posters and efficient use of manure (FYM, Fig. 4).



Fig. 5. Mucuna: an easily managed cover crop for weed suppression, reduced tillage, and soil fertility improvement.



## in the Luganda, Luo, Iteso, and Japadhola

Fig. 4. Grain yield results (Mg ha<sup>-1</sup>) from 348 on-farm sorghum trials in 35 sub-counties.

0	
Control	0.
2.5 t/ha FYM	1.
(15 kg N, 7.5 kg P, and 2.5 t FYM),	2.
(30 kg N, 15 kg P)/ha	2.
(30 kg N, 15 kg P,30 kg K)/ha	2.
Mucuna	1.

Fig. 7. Farmer training on soil fertility management.



## **TOT components include:**

•Information transfer •Enabling fertilizer supply •Support to variety release •Seed supply

•285 agro-dealers and advisors trained •Studies of: baseline

situation, marketing, and adoption

## *Fig. 2. TOT sites in 2012.*

languages

2012

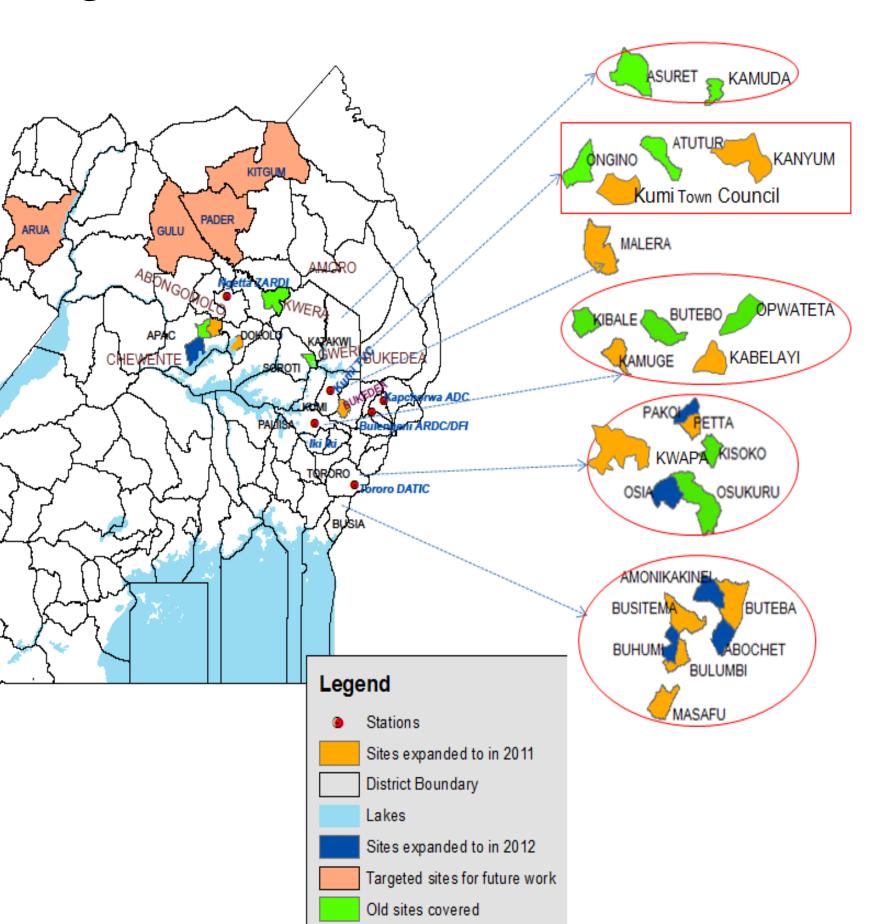
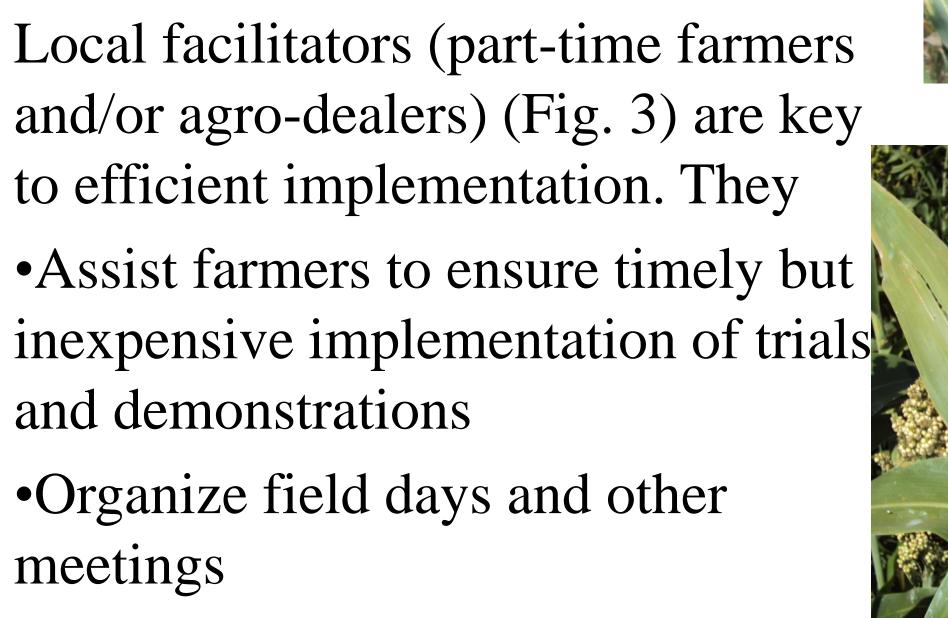


Fig. 6. Three varieties **Improved varieties** 

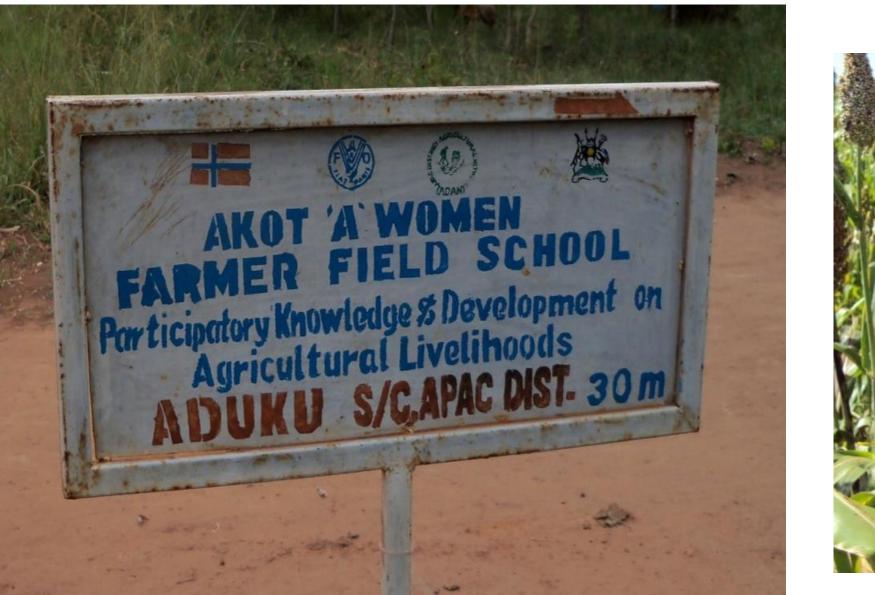
> The project supported multi-location and on-

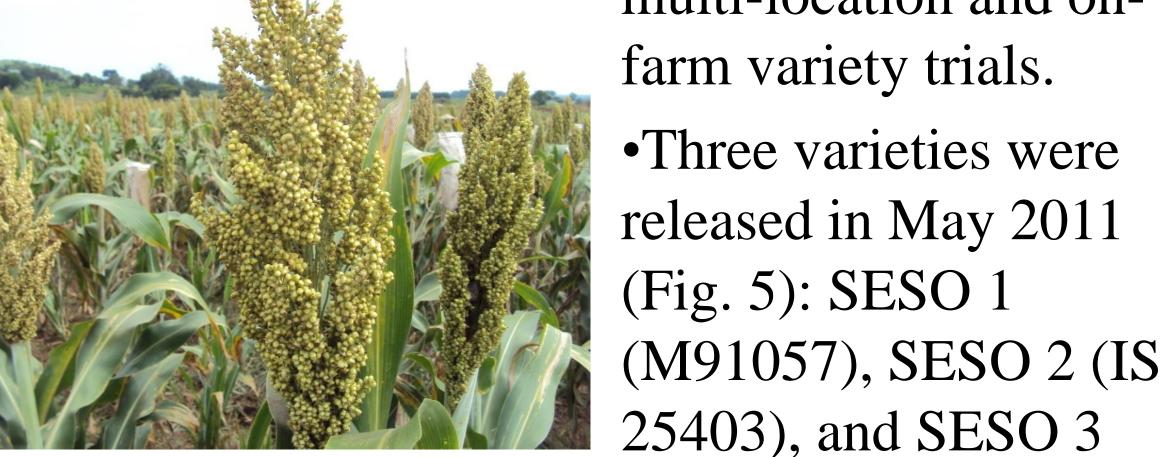
Fig. 3. Local facilitators





## •Advise farmers



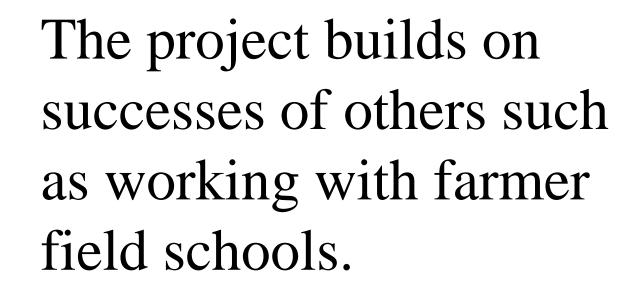


released in 2011.

(SRN 39). •SESO 1 and 2 were verified by Nile Breweries for commercial lager beer brewing quality. •NaSECO and FICA seed companies marketed >500 tons of Fig. 8. Women and children are beneficiaries of TOT.









### 2012 and failed to meet demand for the seed.

SESO 2 and SESO 3 in

### The work was funded by USAID through INTSORMIL.