# AATF's intervention in the rice sector in Africa



Kayode A. Sanni Presentation at CARD SC18 Meeting 29 Sept. 2022 at Dar es Salaam



## **Germplasm Development, Commercial Release and Seed Production**

- 4.5 Tonnes of 3 commercially released hybrid seed produced to be used for priming market in Kenya
- 22 new female (S-lines) parents fixed & released as project global public goods Aromatic lines, High seed yield 1-3 tons/ha, potential for rice hybrid grain yield > 9tons/ha
- 3 new rice hybrids commercially released in Kenya Long grain, Lodging resistant and Early maturity
- Three rice hybrids with yield advantage of over 1t/ha over best commercial check selected for NPT and DUS in Tanzania



Field day for private seed companies, RIPP, media, and aggregators to appreciate hybrid rice seed production for uptake

3 new rice hybrids commercially released in Kenya in December 2021`

Hybrid Name	MATURITY DURATION	YIELD (t/ha)
AH19007	120-128	10
AH19003	115 -125	10
AH19006	110-120	10







### **Priming Commercialization in Kenya – Farmer Managed On-Farm Demos**

- Farmer-managed Demos on at least 1 acre land area to promote hybrid technology amongst farmers for adoption
- 13-on farm demos in central Kenya-
  - Yield advantage > 2t/ha over the commercial check
  - 3 field days and one farmer training done in 4 different sub-counties
  - A total of 278 (117 females, 161 males) stakeholders participated in the field days

variety	yield (kg/ha)	plant height	tiller	panicle number (n)
		(cm)	number (n)	
AH18007	<b>7245</b> <sup>a</sup>	72.8b <sup>c</sup>	<b>27.7</b> <sup>a</sup>	22.9 <sup>a</sup>
<b>PWAN GOLD</b>	6193 <sup>b</sup>	76.23 <sup>a</sup>	24.4 <sup>b</sup>	20.4 <sup>ab</sup>
AH18004	5745 <sup>b</sup>	70.9 <sup>c</sup>	27.1 <sup>a</sup>	21.5 <sup>a</sup>
AH18003	5569b <sup>c</sup>	70.5 <sup>c</sup>	24.5 <sup>b</sup>	19.9 <sup>b</sup>
КОМВОКА	5196 <sup>c</sup>	75.2 <sup>ab</sup>	24.1 <sup>b</sup>	19.7 <sup>b</sup>
MEAN	5989.7	73.1	25.5	20.9
%CV	12.9	4.9	15.1	14.9







#### **Hybrid Rice is a Win-Win business**

Profit from first extra 1T/ha yield advantage hybrid rice over commercial check





Seed Company US\$240

Farmers = US\$360



Good grain quality

Every additional yield gain above 1T/ha goes to farmer 100%

# **Scaling Activities in of hybrid rice**

#### Togo

- Adaptation trials of hybrids in Togo gave 2-3 tons yield advantage over the best commercial inbred variety
- Togo requested for additional hybrids from AHyRA for onfarm trails during the next cropping season.
- Three rice hybrids already released in West Africa and registered in ECOWAS catalogue has been sourced from Advanta seed for the on-farm trials.
- The trials are to start soon

Varieties	Plant height (cm)	Days to maturity	Number of tillers per plant	Grain Yield (t/ha)
16 KHO 70 300 95	97.11	111.85	11.27	8.26
16 KHO 70 301 35	89.56	110.66	15.01	7.91
16 KHO 70 301 34	98.37	112.04	11.55	7.76
IR 841	88.27	117.34	15.40	5.01
16 KHO 70 301 22_1	96.18	108.21	11.78	4.97
15 KSR 70 100 60	89.40	110.51	11.18	4.58
16 KHO 70 300 75	92.65	110.57	15.73	4.13

#### Nigeria

- 10 released hybrids Kenya sent for adaptation trials in Nigeria
- Trials is being conducted by NCRI in Badeggi

#### Rwanda

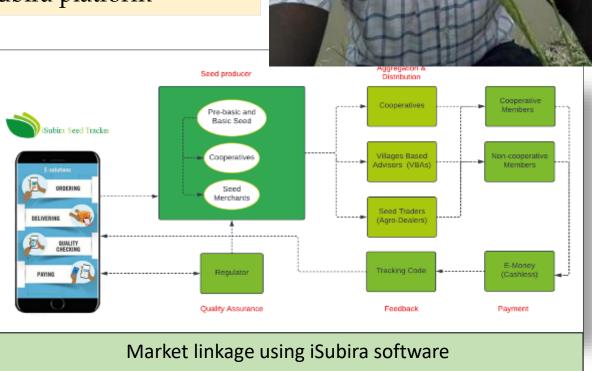
- 10 released hybrids sent for adaptation trials in Rwanda
- Germplasm Testing agreement sent to Rwanda, contract yet to be completed



# **ALLIANCE FOR HYBRID RICE IN AFRICA - AHYRA**



AATF-AHyRA initiated discussion with Centre for African Bio-Entrepreneurship (CABE) to help streamline the hybrid rice seed and grain trading across Africa using iSubira platform



# Thank you





