

Technologies for African Agricultural Transformation (TAAT)

An integrated Program that builds sustainable and resilient food systems



Our Vision

- To **increase agricultural productivity** across Africa by deploying proven agricultural technologies to farmers.
- To **get best technologies into the hands of millions of farmers.**
- To **develop a strong regional approach** for accelerating technology deployment
- To **build resilient food systems** that allow countries to be prepared for economic shocks



Bridging the gap between Research and Delivery



One CGIAR and other institutions provide package of practices and innovative solutions that supersede “traditional technologies” currently available, that can be deployed efficiently across countries, supported by food system delivery infrastructure.

Getting new and sustainable agricultural technologies into the hands of farmers

- **Rural communities** need to be empowered to build prosperous and sustainable livelihoods.
- **Rural families** need to assure their food and nutrition security so that young people can hope to realize their aspirations for a better life in their own rural communities.



- Agriculture and livestock production is in the hands of smallholders.
- Access to high yielding varieties and improved irrigation methods and soil conservation

The TAAT Framework

Public Private Partnerships Fit-for-Purpose that serve to sustainably:



Increase
productivity
deploying
modern proven
technologies to
farmers

Enhance
Delivery
Infrastructure

Build Capacity of
Public Private
Partners

Scale delivery
through country
programs

TAAT Footprint across SSA countries

TAAT offers over **150 Technologies**
which can transform African
agriculture

TAAT Technology providers are:
9 commodity and 6 cross-cutting
or enabler Compacts



Our Partners Deploying Technologies to Farmers



Alliance



Core of TAAT Compacts

Compacts deploying the technologies

9 Commodity Compacts

- ✓ Maize - AATF
- ✓ Rice - AfricaRice
- ✓ Wheat - ICARDA
- ✓ Sorghum and Millet - ICRISAT
- ✓ Cassava - IITA
- ✓ High Iron Beans - CIAT
- ✓ Orange Flesh Sweet Potato - CIP
- ✓ Aquaculture - World Fish
- ✓ Livestock - ILRI

6 Enabler Compacts

- ✓ Soil & Fertilizer - IFDC
- ✓ Water Management - IWMI
- ✓ Capacity Delivery and Technology Outreach - FARA
- ✓ ENABLE-TAAT - IITA
- ✓ Fall Army Worm - IITA
- ✓ Policy – AATF

Program Management & Cordination

- ✓ Program Management Unit
- ✓ Clearinghouse



Examples of the Technologies being deployed

PROMOTING PVC PIPE WATER CONVEYANCE IRRIGATION SYSTEM



THE LEFT IS BETTER THAN THE RIGHT



High yielding market preferred Striga and disease resistant bio-fortified Sorghum and millet varieties (Chakti, GB 8735 etc..)



Rapid propagation of modern released cassava varieties through the Semi Autotrophic Hydroponics (SAH) technology and solar energy

Expected Impact of TAAT on Food Productivity

Commodity	2016 Average African productivity (Baseline) (mt/ha)	2016 Average productivity of lead producers (mt/ha)	2025 Average African productivity (metric tons/ha)	Additional food production (metric tons/ha)
Maize	2	5	4	30 million
Lowland Rice	2	5.5	4	15 million
Wheat	1.5	3.5	3	25 million
Sorghum	1	2.5	2	10 million
Millet	1	2	2	5 million
Cassava	12	24	20	20 million
Small livestock (live wt at 12mos)	25 kg	60 kg	50 kg	10 million
Fish (live weight at 6 months)	3 kg	8 kg	5 kg	5 million

Taking TAAT technologies to Rural Communities

- Ensuring farmers are given the knowledge in Good Agricultural Practices (GAP)
- Working with national extension partners and scientists to ensure the GAP trickle down to farmers

11,414 Promotional & outreach
campaigns organized

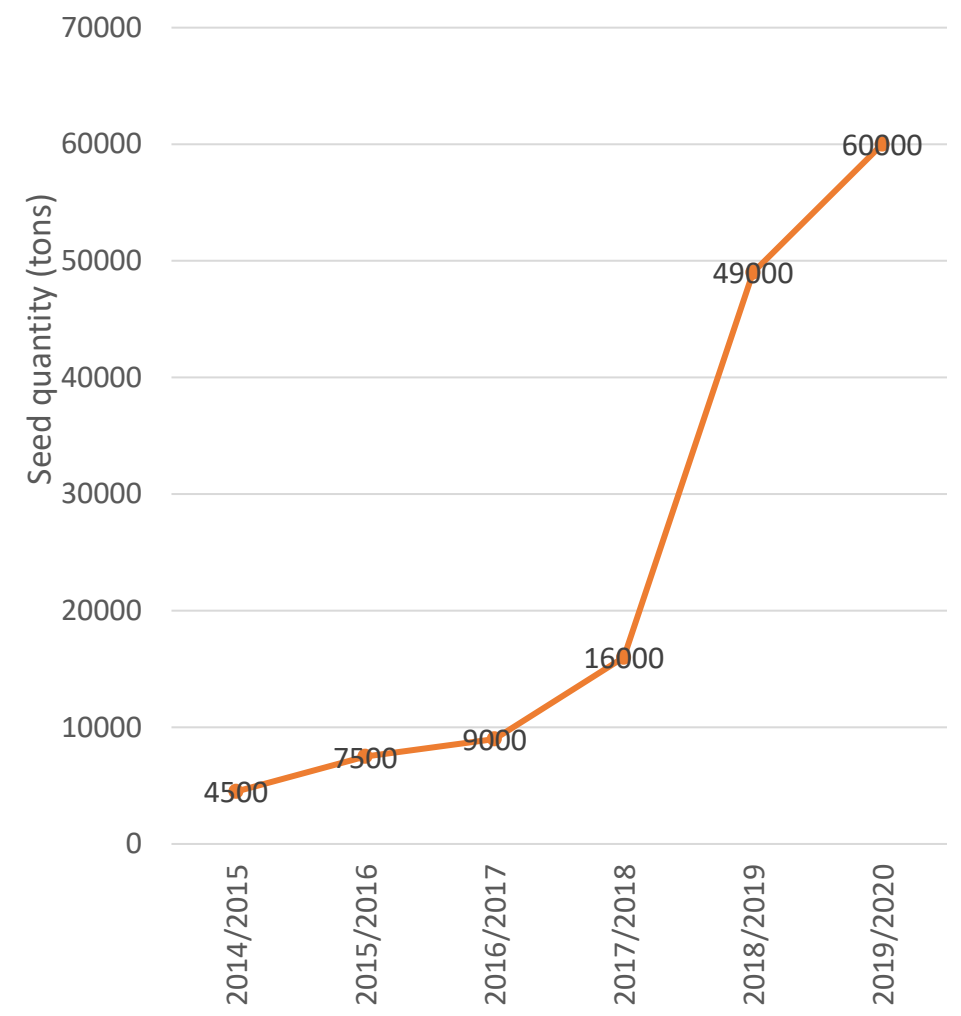


Attribution - 30%; Contribution - 70%



Wheat in Sudan – leveraging partnerships for scaling

- The Wheat compact is working with partners for substantial bulking of wheat seed; partnering with private sector covering areas under expansion and surplus for potential export.
- In 2019/20 about 315,500 ha was cultivated with production of 1.15 million tons reaching about 50% wheat self-sufficiency.



Wheat in Ethiopia – leveraging partnerships for scaling



- In 2019/20 irrigated wheat expansion reached about 21,000 ha with an estimated average yield of 4 tons ha⁻¹, producing a total of at least 84,000 tons
- In 2020/21 irrigated wheat area expansion reached over 184,000 ha through government added funding

Maize in Kenya - Strengthening delivery infrastructure

Deploying improved climate smart maize varieties to increase productivity

TAAT Maize was able to:

- ✓ Bring together maize off-takers (Food Chain Millers) to create demand for both maize seed and grain
- ✓ Off-takers offered farm inputs credit to maize farmers
- ✓ Incentivized farmers to adopt climate smart maize hybrids
- ✓ Incentivized private sector to purchase grain from the farmers after harvest

With formal contractual agreements with the farmers, Food Chain Millers were able to purchase about 4,320 tons of maize grain in 2019, and in turn processed 3,600 tons and 720 tons of maize flour and animal feed, respectively..



Rice in Senegal – Hybrid rice making a difference



**Rice Hybrid AR051H
Released as ISRIZ-09
in Senegal, Yielding
over 10MT/Ha**

**Spreading to other
countries**

Cassava in Nigeria

The Mobile processing system

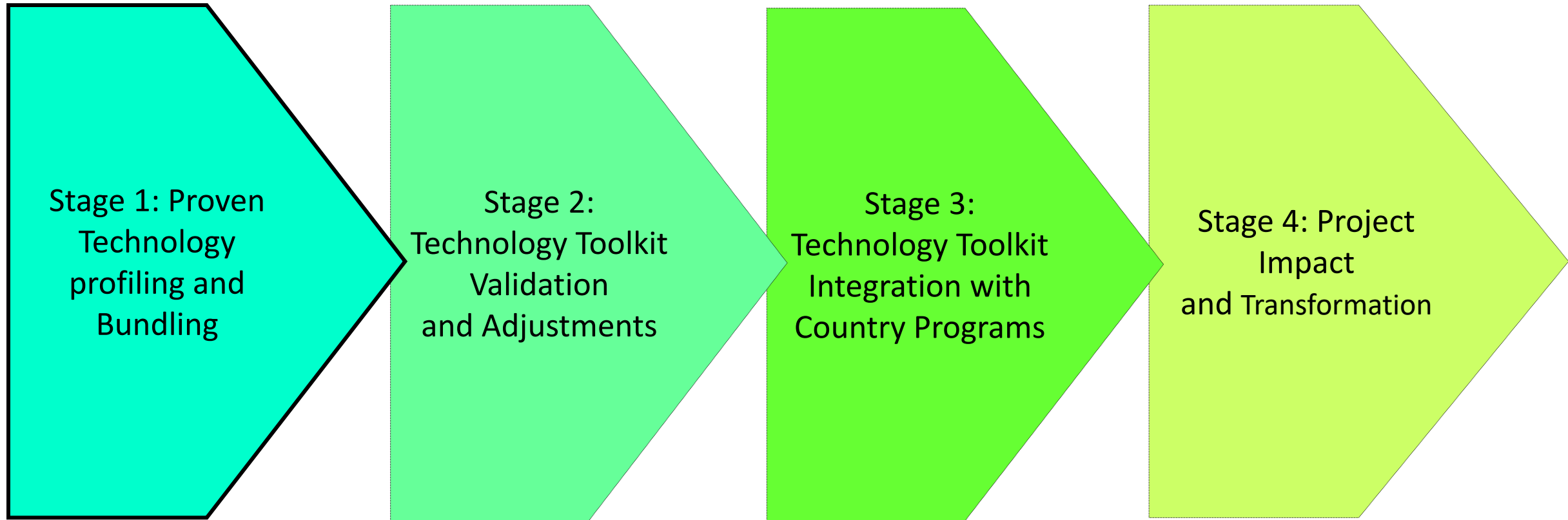
1. Facilitates farm-gate processing in Nigeria
2. Reduces postharvest losses & Environmental



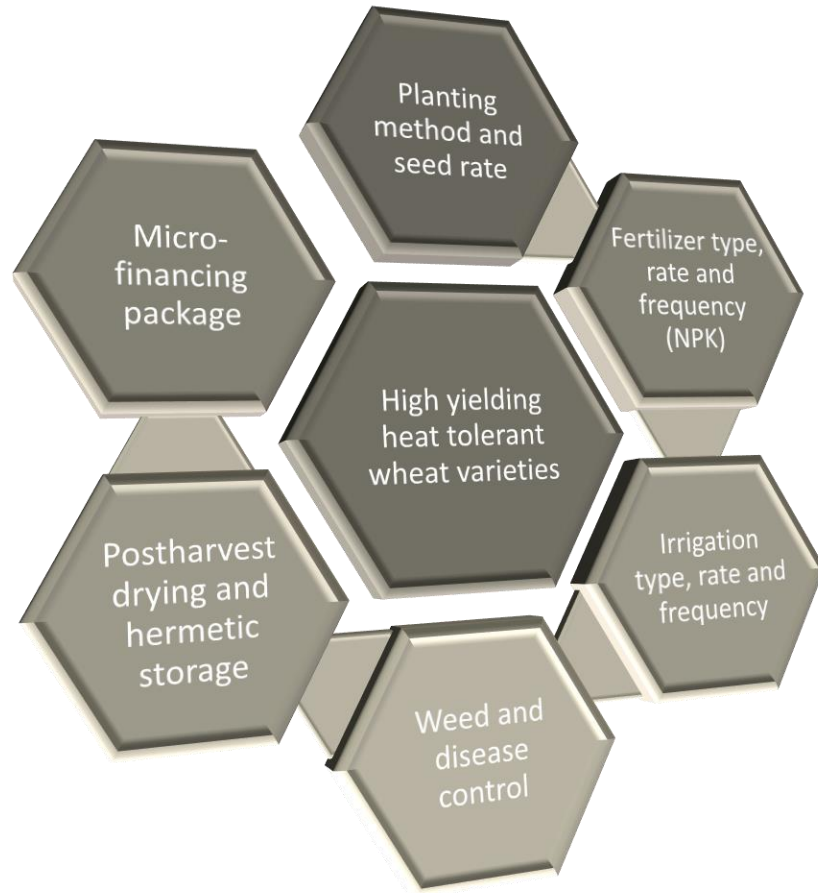
Scaling-up will

1. Increase farmers' access to modern processing technologies in rural areas;
2. Increase market access;
3. Enhance rural income

Technology Brokerage Process



Technology Toolkits



- Associated technologies working together
- Customised to customer's needs and location
- May come from several Compacts, including cross-cutting Compacts

Technology Catalogue Toolkit

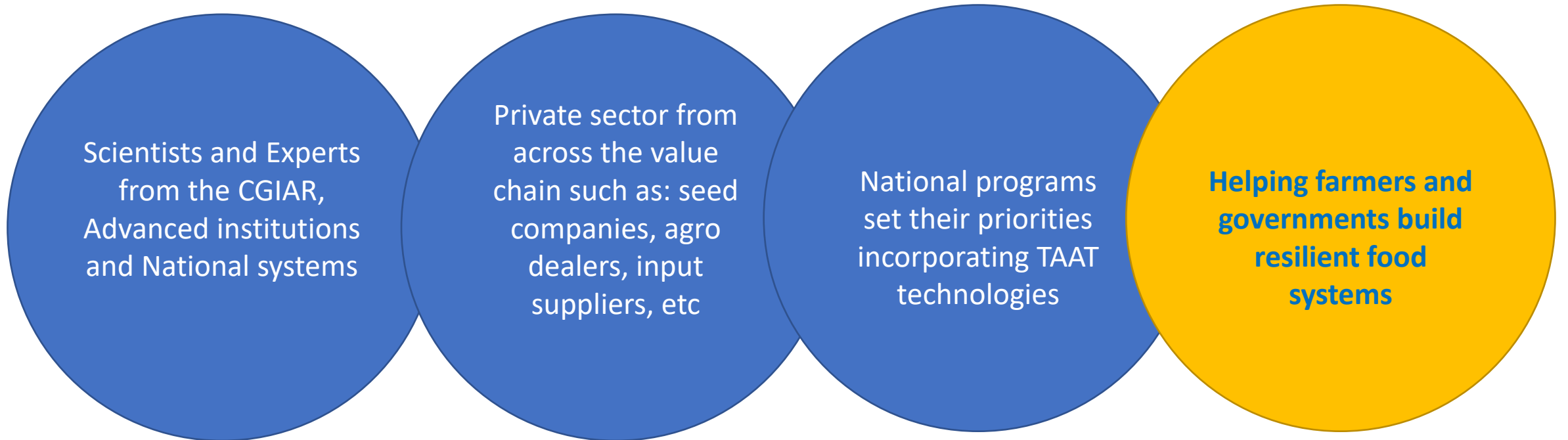


- List of TAAT technologies
- Presents all relevant details
- Customised to specific audience needs
- Stored as a database (easy update and additions)
- On-line, stand-alone copies and print-outs

Le Teneur des Catalogues

- ☑ Résumé
- ☑ Description Technique
- ☑ Utilisation
- ☑ Composition
- ☑ Application
- ☑ Solutions d'Accompagnement
- ☑ Détenteur de la Technologie
- ☑ Commercialisation & Clientelle
- ☑ Exigences de Démarrage
- ☑ Coût de Production
- ☑ Rentabilité Potentielle
- ☑ Exigences de Licence

Strength of TAAT lies in the ecosystem of public and private partners working together for sustainable agricultural transformation



How do we continue this momentum across Africa

TAAT can only succeed with Government SUPPORT and FUNDING to ensure sustainable infrastructures are invested in at the national levels.

This will build capacity of countries to produce their own seed, trade across agro-ecological zones and create input supply markets to support small holders to become commercial farmers. Without this commitment from governments achievements will not be sustained

The TAAT Framework

Moving into the next frontier with TAAT II:

Linking our technologies and our stories to country programs for true continental wide scaling

Increase productivity by deploying modern and proven technologies to farmers

Enhance Delivery Infrastructure

Build Capacity of Public Private Partners

Scale delivery through country programs

Ending hunger & malnutrition are moral imperatives of our generation



TAAT, a critical component of the AfDB Feed Africa Strategy, will help us do that

Thanks to all involved in supporting this to happen