

\_\_\_\_\_ TAAT Phase II: Deploying agricultural technologies and innovations at scale

> **Solomon GIZAW** Head of TAAT Clearinghouse 16 April 2024

# Presentation Outline

01 The Context & rationale

02 TAAT Program & Clearinghouse

03 TAAT technology vetting and profiling

04 TAAT country engagement, scaling approach & partnership,

05 Examples of transformative success stories



Today, the technologies exist to feed Africa, if widely deployed

They include: i) high yielding crop varieties & livestock breeds; and ii) bio-fortified crops such as pro-vitamin A rich cassava, high iron & zinc rice, high zinc sorghum

If scaled up, these can help to address the problems of malnutrition & stunting of African bodies and minds

In fact, Africa has more food production technologies available today than Asia had at the time of its Green Revolution



# TAAT vision and rationale

✓ **TAAT (Technologies for African Agricultural Transformation)** is a flagship program of the Feed Africa Strategy of the African Development Bank.

✓ TAAT seeks to increase agricultural productivity across Africa by deploying proven agricultural technologies integrating social inclusion dimensions to farmers

✓ **Technologies exist today** to feed Africa; we need to get them into the hands of millions of farmers to raise productivity.

✓ TAAT is a partnership that brings together all the key players in a unique delivery system

✓ <u>Overall goal</u> - Double crop, livestock, and fish productivity by expanding access to productivity-increasing technologies to more than <u>40 million smallholder farmers</u> across Africa.





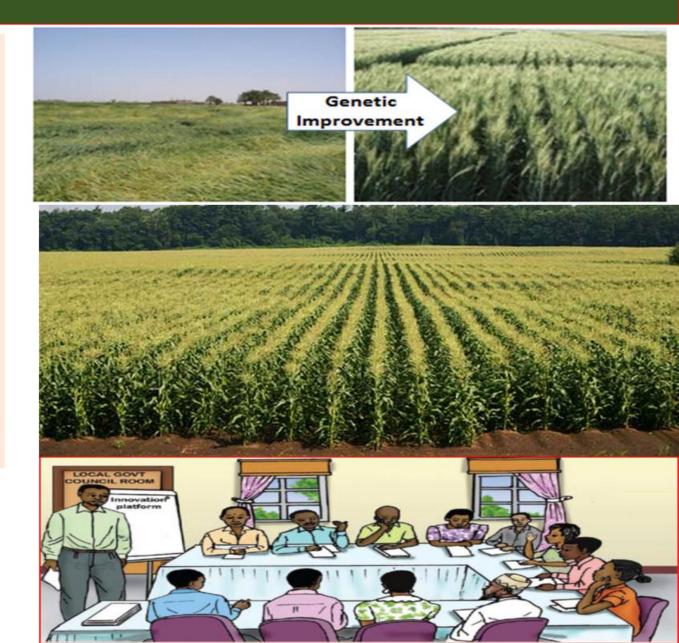


# The key organizing principles of TAAT for Africa Feeding Africa

# The key organizing principles for achieving a transformative impact at scale in RMCs:

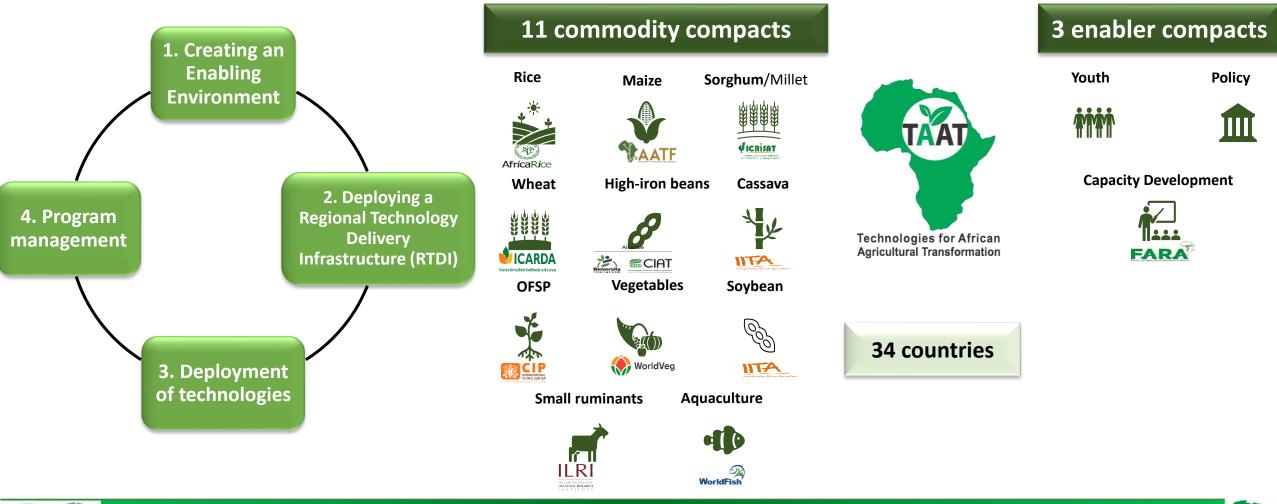
- Technology Matters
- Scale Matters
- Policy Matters
- Partnership Matters





### **TAAT Program Components Driving Delivery of Innovative Solutions**

# TAAT works with 11 commodity compacts and 3 enabler compacts in SSA countries

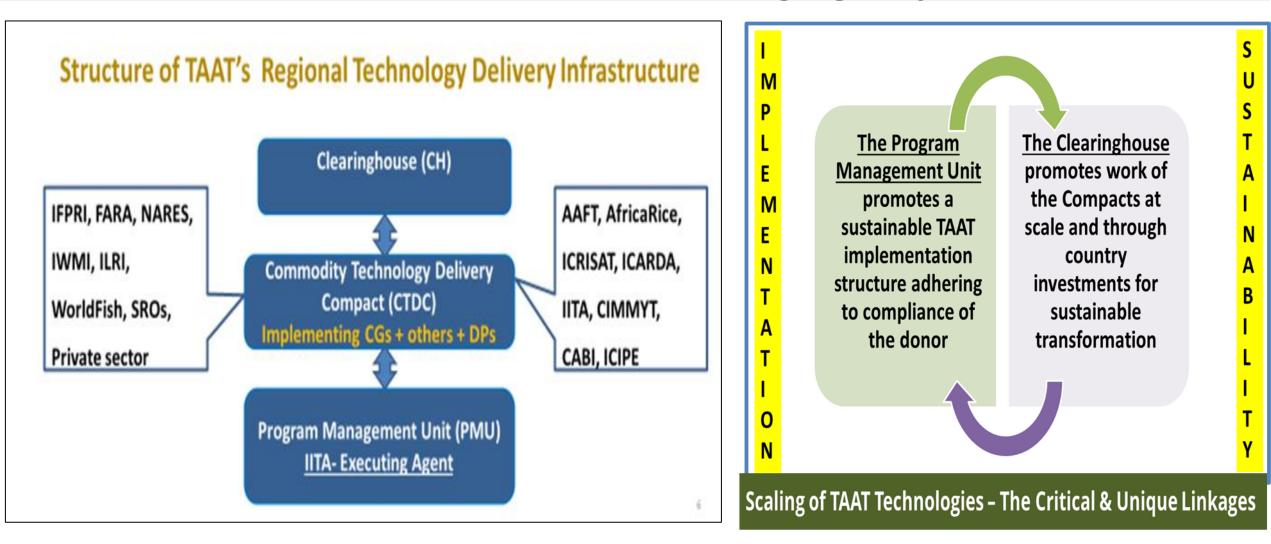




**Technologies for African Agricultural Transformation (TAAT)** 

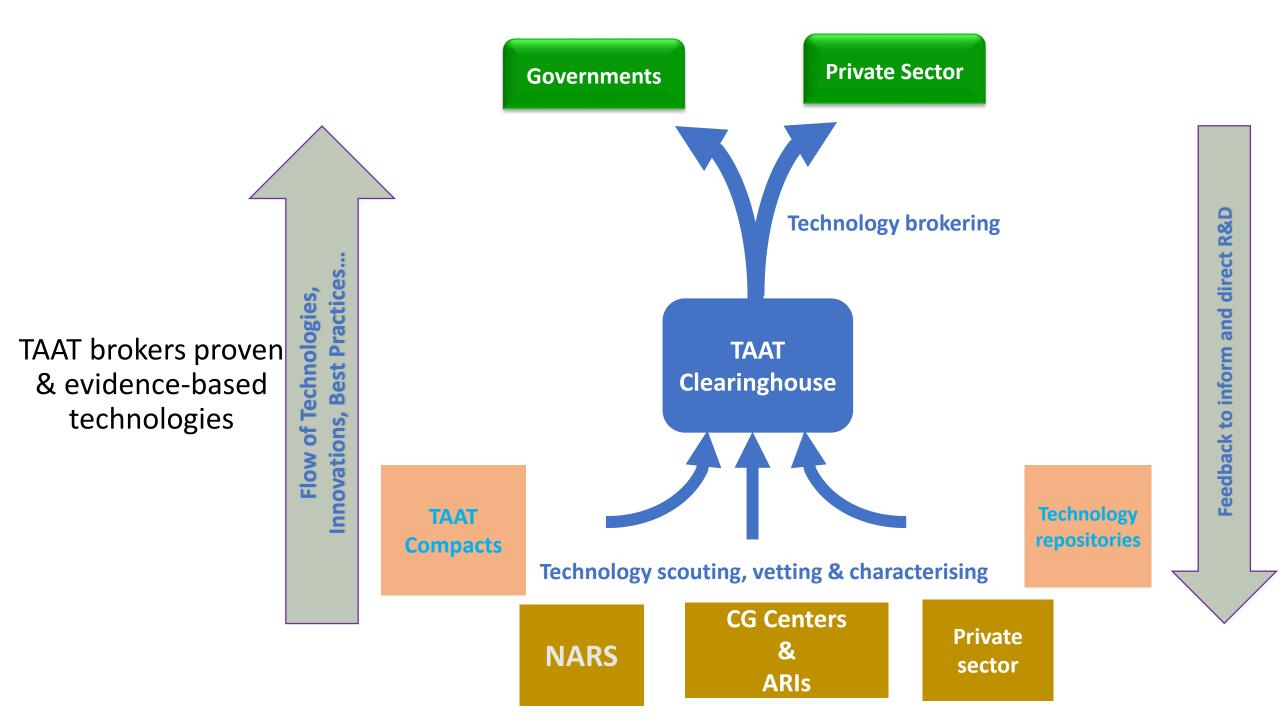
# **TAAT Program Implementing Structure**

### THE REGIONAL TECHNOLOGY DELIVERY INFRASTRUCTURE (RTDI) With IITA as the Executing Agency





#### The TAAT-Clearinghouse is the lynchpin of TAAT, vetting & selecting agricultural technology and marketing them to the public & private sectors and development partners **TAAT Clearinghouse** Review, vet & **Promote Promote** Mobilize **Review & align** technologies to technologies to select proven resources to **Compact plans** technologies public sector private sector catalyze scaling



# TAAT technology vetting and profiling

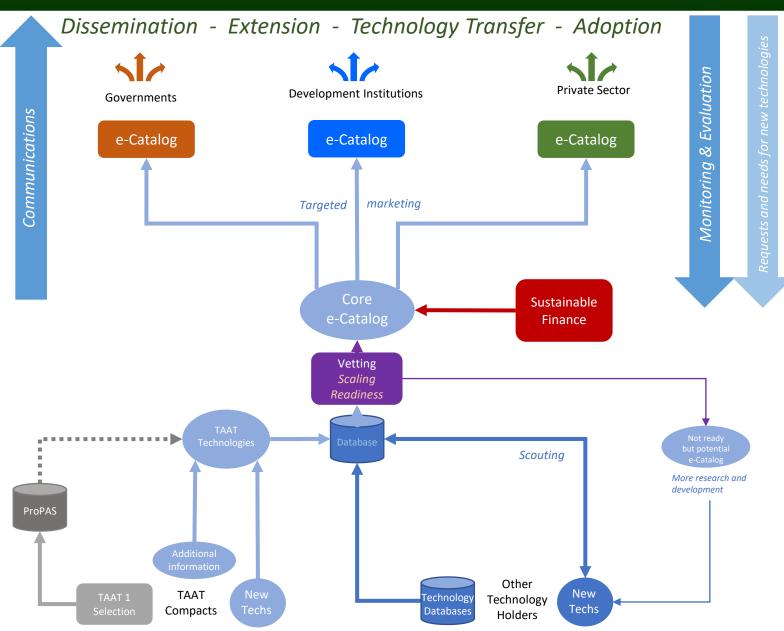
### **Technology providers:**

Technologies for Africar Agricultural Transformation

- TAAT Compacts (CGIAR, ARI)
- Other providers
  - ≻ NARS, SROs
  - Private sector
  - > Other repositories (USAID..)

#### **Transparent vetting process**

- Pre-vetting using scaling readiness
- Vetting committee of wise people
- Ensures technologies are fit for purpose and ready to scale



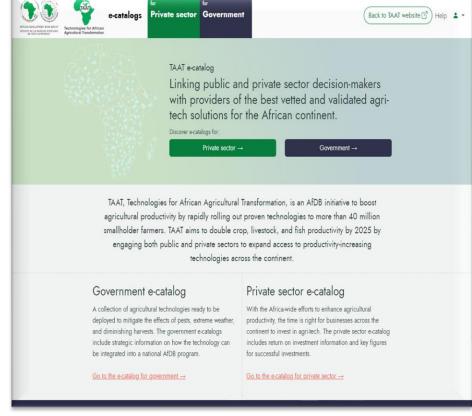
# TAAT technology e-catalogs available online

# 2-TAAT technology e-catalogs, customized to specific audiences, available on-line

- Currently technologies profiled for 1) Government 2) the Private Sector
  - 130+ technologies profiled in the database
  - e-catalogs offer powerful search, filtering and browsing
  - Online help system available

Technologies for Africar Agricultural Transformation





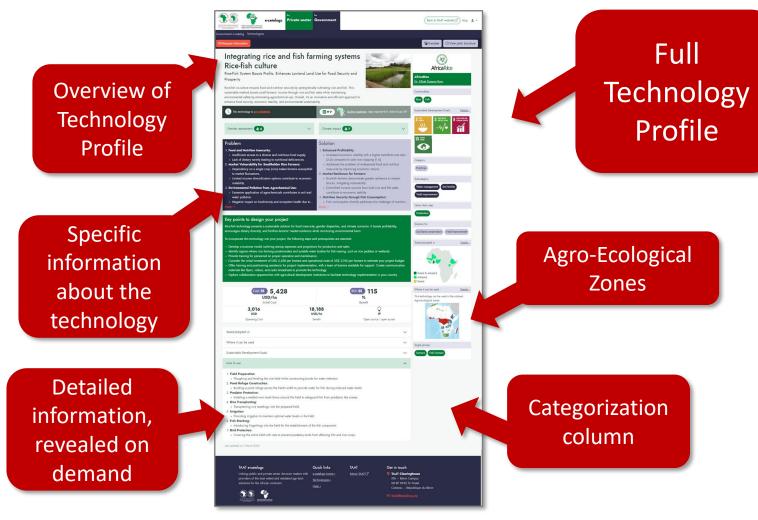


To make it easy to select the right technology for your needs



# **TAAT technology profiles**

Technology Profiles with content customized for 2 e-catalogs (Private sector and Governments)



#### Pitches available to download on new Technology Profiles



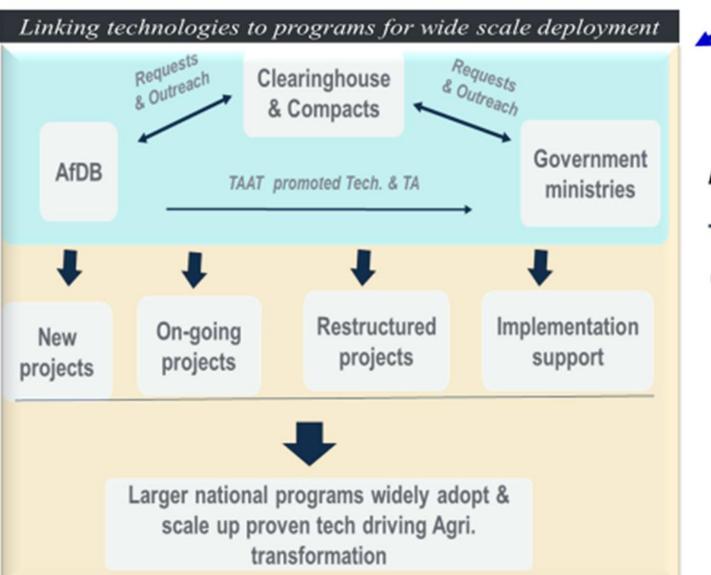


# **TAAT e-catalogs** Detailed profiles of validated agricultural technologies for projects and businesses

https://e-catalogs.taat-africa.org/



### Government Engagement Strategy for Agricultural Transformation in Africa



TAAT

Technologies for Africar Agricultural Transformation

#### TAAT CH within IITA

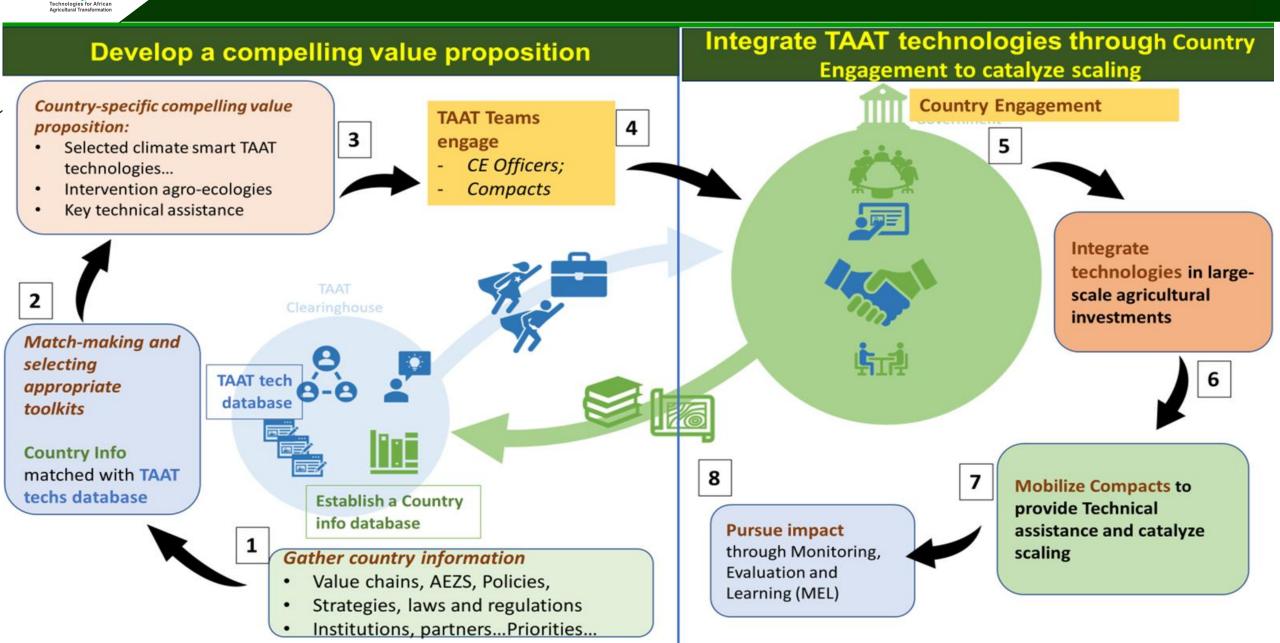
 Transparent selection, vetting & packaging technology

### Approach:

#### TAAT CH Team with Compacts

actively participate in Country missions and engage governments and national partners by strongly coordinating and working closely with Bank's TAAT Coordination Team, Task Managers, Regional Managers Sector and Country Coordinators for inclusion of TAAT vetted technologies in Country's large scale agricultural investments and catalyse their scaling for driving agricultural transformation in RMCs

# Strategic approaches and tools for country engagement

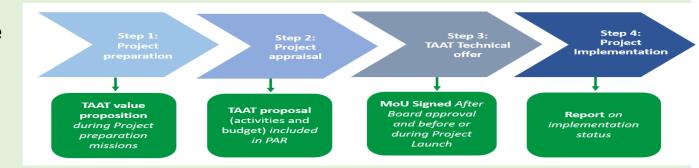


# new, supervision, restructuring of underperforming projects



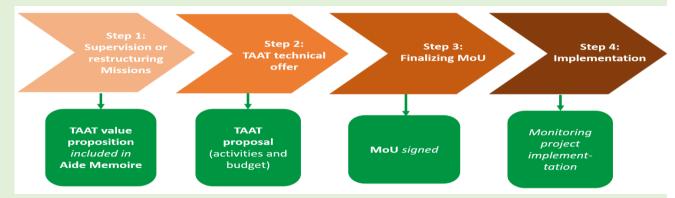
Technologie Agricultura

Country engagement for the design of new projects, mainly of AfDB



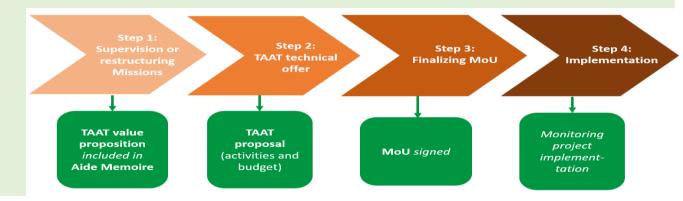


Country engagement for ongoing supervision/midterm projects





Country engagement for restructuring of underperforming projects,





#### I. African Emergency Food Production Facility (AEFPF)

❑ With the global disruption caused by the war in Ukraine, there is an estimated supply gap of 30 million metric tons of wheat, maize, and oilseeds on the continent.

The African Emergency Food Production Facility (AEFPF) is designed to boost the local production of cereals and oil grains as the most effective and efficient way to build the resilience of Africa's food systems to respond to these circumstances and mitigate risks to supply in the short to medium term.

#### \$1.5 billion Africa Emergency Food Production Facility

37.6 MMT
20 M farmers



**PILLARS OF AEFPF** 

Delivering certified seeds of climate-adapted varieties and quality extension services to 20 million farmers

AEFPF

**2** 

Supporting **policy reforms** facilitating modern inputs getting to farmers, including strengthening national institutions overseeing input markets

Ø

Providing financing for large-scale supply of fertilizers

# II. Dakar-2 Initiative: Commitments of African Presidents to agricultural transformation

WE, the Heads of State and Government of 34 African countries...AGREE that it is time for Africa to feed itself and fully unlock its agriculture potential...



### An Action-driven Dakar 2 Initiative for Food Sovereignty And Resilience In Africa



The action-driven Dakar 2 Summit set a planned investment of mobilizing

- \$20 billion by several other partners (WB, IFAD, IsDB...) in support of Africa's agricultural transformation
- **\$10 billion** by the African Development Bank
- 44 African countries developed Country Food and Agriculture Delivery Compacts;

#### Clearinghouse focus in Daka2 initiative

- Intensify government engagement operations for linking TAAT vetted technologies to large scale agricultural investments target RMCs
- Support Policy and regulatory reforms for enhancing delivery of seeds and fertilizers and developing market infrastructure and value addition
- Develop a robust national seed system with roadmap and provide technical to NRS and private sector to accelerate the production and delivery of EGS and certified seeds
- Piloting the demonstration of TAAT vetted climate smart technologies with their integrated GAP and past harvest technologies and provide ToTs for extension agents to first-track their large scale and estread adoption by wheat farmers
- Strengthening innovation platform approach by engaging all concerned stakeholders along the value chain for joing planning, implementation and linking farmers to input and output markers

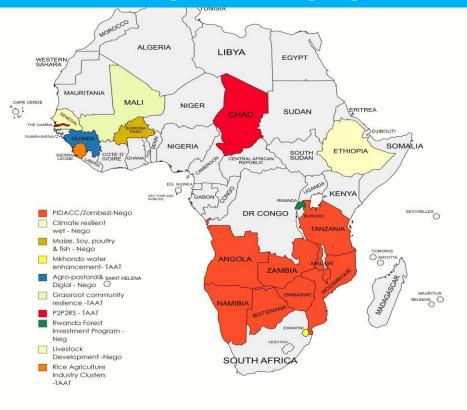
# Mapping AfDB, IsDB financed large scale investments in Africa

AEFPF – On-going projects 2023/24

Technologies for African Agricultural Transformation



#### Non-AEFPF sovereign loan – On-going 2023/24

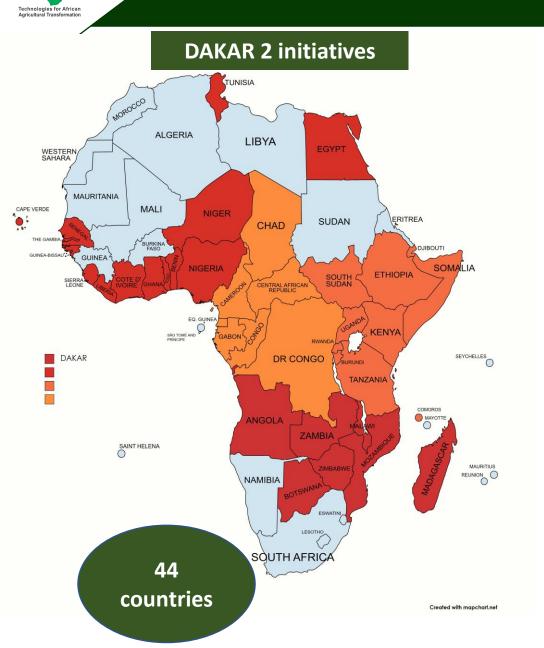




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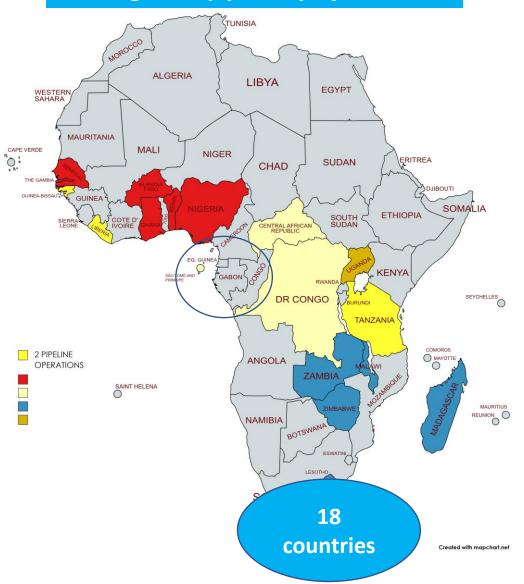
## Mapping AfDB, IsDB financed DAKAR 2 and Pipeline Projects

ipeline 2023



GROUPE DE LA BANQUE A

Sovereign loan pipeline projects



# TAAT country engagement: Areas of key Technical Assistance to AEFPF/Dakar2/IsDB target countries

- Identifying seed supply gaps and informing the country for sourcing additional quantity of certified seeds from other countries of similar ago-ecological zones
- Providing technical specifications for the supply and quality assurance of certified seeds;
- Supporting policy and regulatory reforms facilitating access to improved seeds and fertilizers to farmers
- Developing the seed roadmap and seed system aligned with the country's strategy and AEFPF targets
- Upgrading the skills of NARS seed technicians on EGS and private enterprises engaged in certified seed production on quality seed production and management programmes;
- Demonstrating TAAT vetted climate-resilient varieties with integrated packages in representative large scale intervention sites to fast-track a widespread technology adoption
- Providing ToTs on on GAP, harvest and post harvest management for extension agents, SMSs

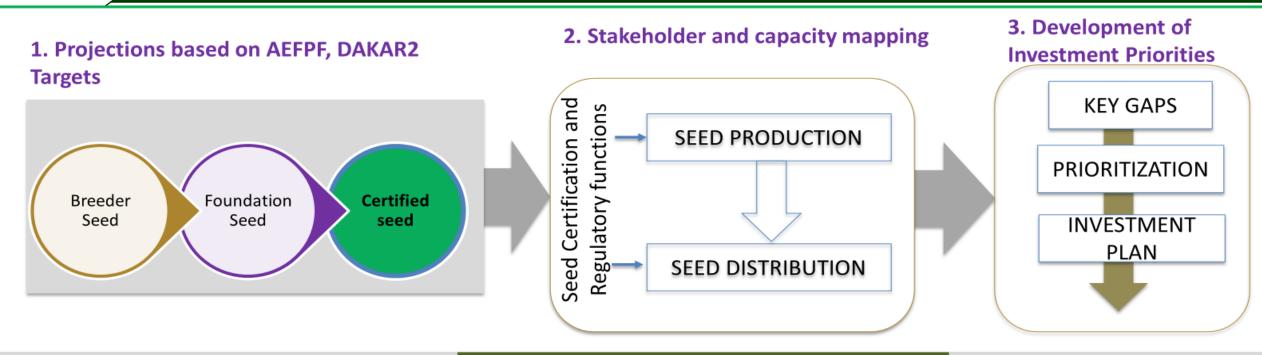






**Technologies for African Agricultural Transformation (TAAT)** 

# TAAT approach for developing seed system & road map



• What are the targets of certified seeds of Maize, Soybean, Wheat and Rice to be deployed under AEFPF in the target countries?

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Technologies for Africar Agricultural Transformation

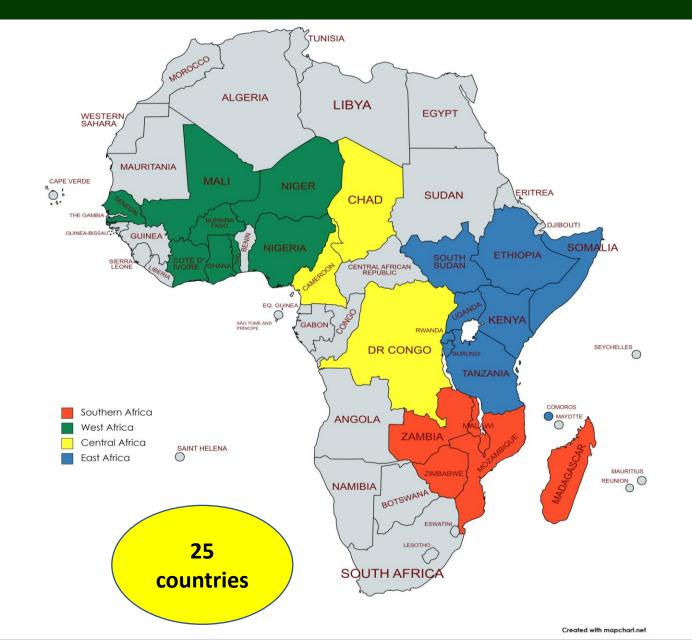
- •What are the quantities of Foundation seed are needed to produce the certified seeds?
- •What are the quantities of Breeder seeds are needed to produce the Foundation seeds?

- ✓ Who is involved in the production of breeder, foundation and certified seeds for target crops and varieties?
- ✓ What is the role of private and public players in each category of seeds?
- ✓ What is the capacity of each actor?
- ✓ What is the projected supply based on the capacity?
- ✓ Does the supply match with the projected demand?
- ✓ What are the seed distribution pathways and which actors are involved?
- ✓ Are there any infrastructure and capacity gaps in production and distribution of seeds?

- What are the short-term measures to address the gaps (e.g., import of seed)
- What are the long term measures to address the gaps?
- What are the priority actions and their investment needs?
- Which actors will be involved in the investment
- What are the timelines for the actions?



## Mapping seed sector assessment and seed road map in RMCs





# **Delivering a Successful TAAT Program**

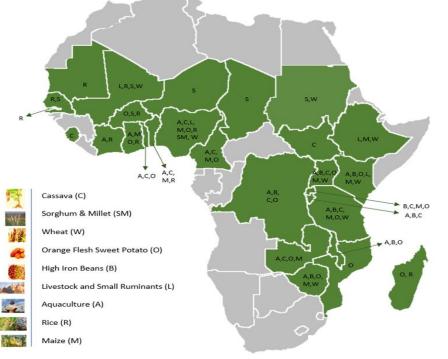
# TAAT Footprint across SSA countries

TAAT currently offers over 120 Technologies which can transform African agriculture

**TAAT Technology providers** are: **11 commodity** and 3 crosscutting or enabler Compacts



TAAT Country engagement for the integration of proven technologies into large scale agricultural investments in RMCs (Oct 2022-Dec 2023)



Countries covered: 25 AEFPF 19 non-AEFPI	USD 1.7 billioninvestment influenced byTAAT climate-smarttechnologies (includingUSD 866.87 million forAEFPF and USD 837.1million for non-AEFPFprojects)	USD 44.78 million Mobilized to provide Imp- lementation Support by TAAT Compacts with national partners
45 cases of TAAT technolo incorporated into nati and regional agricult investment projects finan through AfDB's sover loans and grants outsid the AEFPF initiatve	<i>onal</i> <i>tural</i> <i>nced</i> <i>reign</i> <i>initiative</i> and pipeline	62 cases of TAAT-vetted tech- nologies incorporated into national and regional agricultural investment projects financed through the AEFPF

#### **Government Engagement with Ministers**













HI beans

POULTRY

sheep

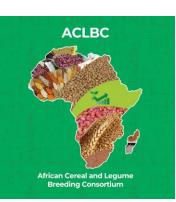
rice

# Private sector engagement achievements

29 climate-smart crop varieties (cassava, rice and wheat) adopted by 17 private seed companies

3

hnologies for Africa



### Creation of the *African Cereal and Legume Breeding Consortium (ACLBC)* hosted under the AFSTA umbrella to attract over 200 seed companies operating in Africa to adopt and scale



2





# TAAT Partnership is the largest in Africa



NATIONAL AGRICULTURAL RESEARCH & EXTENSIION SYSTEMS

SUB-REGIONAL ORGANIZATIONS

PRIVATE SECTOR

# Examples of transformative TAAT success stories



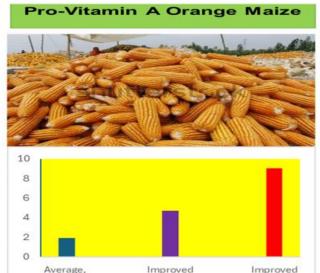
### Some examples of transformative TAAT success stories: Maize

#### Maize varieties for Africa

- TAAT Maize Compact with partners catalyzed the scaling of climate-smart maize technologies such as the elite Water Efficient Maize for Africa (WEMA) varieties.
- TAAT facilitated the production and dissemination of <u>21,983 tons of climate-</u> <u>smart maize</u> by seed companies for nearly <u>879,320 ha of cultivated area.</u>
- Through its extensive partnership network, the TAAT has reached <u>2,302,585 farmers</u> <u>with climate-smart maize varieties</u> with average maize yields of 2.68 t/ha. The compact has been able to catalyze the production of 2,331,111 MT of maize grain.







adopted

potential

Africa

### Some examples of transformative TAAT success stories: Rice

### **Towards Self-sufficiency in Rice**

The TAAT Rice Compact disseminated 67,739 MT of seeds of climate-adapted and high-yielding rice varieties which were planted on 1,354,780 ha and benefited 2,252,987 farmers, boosting rice production by 5,039,579 MT of paddy and 3,326,122 MT of milled rice.



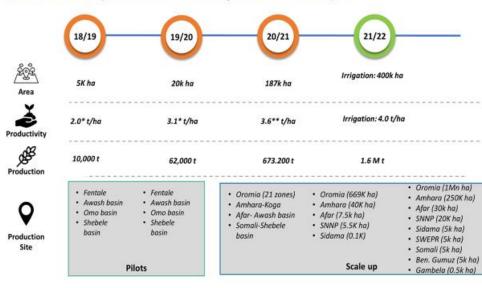




### Some examples of transformative TAAT success stories: Wheat



Irrigated wheat has increased dramatically over the past 4 years achieving over 400K ha in 2021/22 and over 1M ha planned for 2023/24







## Some examples of transformative TAAT success stories: Cassava



Tanzania Sierra Leone

President Obasanjo is investing about \$0.3 million in 2022 Large-scale adoption of HQCF processing and SAH for EGS production by BAB in the Agricultural Transformation Agenda (ATA-DRC)







# **Expanding TAAT Partnership with CORAF**

### **Possible areas of collaborations**

- Explore mechanisms to link TAAT technology database with CORAF and jointly promote proven climate smart technologies in the in West and Central Africa region and across Africa
- Foster complementarity between TAAT and CORAF to jointly participate in country engagement missions for integrating proven technologies into large scale investments financed by IFSs (AfDB, IsDB, WB, IFAD)
- Joint resource mobilization for food system transformation in West and Central Africa region.
- Institutionalize West and Central Africa Technology trade fairs to commercialize proven technologies by engaging private sector.
- Strengthen the delivery of technologies through collaboration between TAAT Compacts and Regional and National and Centers of Specialization Excellence (NCoS/RCE)



TAAT team presenting technology catalogs at the MITA marketplace







WorldVeg













II RI

INTERNATIONAL

LIVESTOCK RESEARCH

SAREC

**WorldFish** 

sforming Agriculture for Improved Livelihood

# Thank you for your attention

**WMJ** 

International Water

Management Institute





Alliance



