



Genetic Innovation

The Second Leadership Consultation Meeting:
NARES-CGIAR-Aide Memoire



Marakech, Morocco

Thank you: national, regional, university partners:



**LAKE CHAD
RESEARCH INSTITUTE**



AGRA
Sustainably Growing
Africa's Food Systems



MaRCCI
Makerere Regional Centre for Crop Improvement



**WEST AFRICA CENTRE FOR
CROP IMPROVEMENT
UNIVERSITY OF GHANA**

Welcome, housekeeping & intros



Welcome

- Reflect on Aide Memoire
- Actions and decisions to bolster partnership strategies
- Three sections:
 - **9AM Session I:** What's happened thus far?
 - **11AM Session II:** SRO and ARI alignment
 - **130PM Session III:** Areas needing further attention, measuring progress
- Wifi password:
- Introductions



INITIATIVE ON
Accelerated Breeding

Building on the Goals of the Nairobi 2022 GI NARES-CGIAR Consultations

Biswanath Das

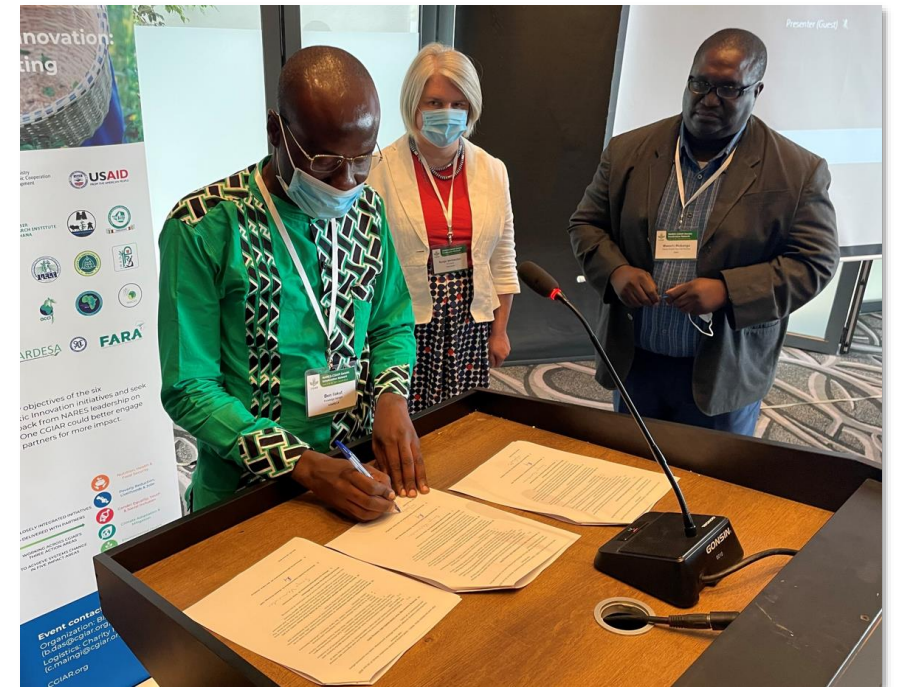
Transform Lead, CGIAR Initiative on Accelerated Breeding

2022 Nairobi Consultation Meeting



INITIATIVE ON
Accelerated Breeding

- Landmark event
 - partnerships are key. Subsequent CWANA event.
- Set the agenda for 2023
- Change is the Constant



Aide Memoire: June 2022



Aide Memoire

A high-level meeting between leaders from NARES in Sub-Saharan Africa, SROs (ASARECA, CARDESA, CODRAF), development partners and CGIAR Genetic Innovation took place on 27-28 June 2022 at the Trademark Hotel in Nairobi, Kenya.

During the meeting, participants as listed in Annex A agreed that / emphasized:

- 1. Taking stock:** Substantial benefits have arisen from past collaborations between NARES, SROs and CGIAR centers in the area of Genetic Innovation, through research, capacity development and innovation; the sharing of information, germplasm and technologies; the better management and use of data; the wide availability of genetic resources, and joint fund raising. This has resulted in (i) the faster development and deployment of new crop varieties, (ii) the conservation of genetic resources, (iii) new skills and institutional capacities being developed (iv) economies of scale being created, and (v) larger scale impact. There is a need to strengthen this through stronger collaboration.
- 2. Non-exclusivity:** This meeting included limited numbers of NARES and SRO partners in Sub-Saharan Africa. Other NARES and SROs in Sub-Saharan Africa are invited to join in the spirit and intent of this aide memoire, to attend future meetings to the extent that genetic innovations feature strongly in their national research and development strategies and priorities.
- 3. View of the One CGIAR Transformation:** NARES and SROs in attendance at the meeting are supportive of the One CGIAR Transformation towards greater impacts being generated. It is in the right direction. Similar changes have happened in national organizations in Sub-Saharan Africa where institutions have come together to form one NARES organization in their country. The modality of collaboration, (i) between NARES, SROs and CGIAR and (ii) to ensure all centers pursue a joint agenda, needs further work to achieve a more effective overall system while building on the strengths of the past.
- 4. Role of this meeting:** The OneCGIAR re-design of the portfolio enables to comprehensively and jointly take stock of the agenda and the modality of collaboration, and plan the way forward across crops, institutions, and for a major science area, Genetic Innovation.
- 5. Our common challenge:** By (i) aligning NARES, SRO and CGIAR plans and activities better, including by doing so at a programmatic instead of individual project or crop level, and (ii) drawing on the complementary strengths of partners, greater benefits can be created for the achievement of national action plans, CGIAR results targets and the realization of the Sustainable Development Goals (SDGs).
- 6. Overarching values:** We want to pursue this endeavor as equal partners, with all partners contributing to greater alignment, the effective use of complementary skills, and egalitarian approaches to how we work together. We need each other to pursue the design, co-development, deployment and tracking of new products, to create benefits in research and innovation, and to achieve large-scale benefit for the people we serve.



[Link to Aide Memoire](#)

Clear Goals from the 2022 Aide Memoire



INITIATIVE ON
Accelerated Breeding

High Level Sub-Saharan Africa NARES – CGIAR meeting on Genetic Innovation, Nairobi 27-28 June 2022
- Aide Memoire

Aide Memoire

A high-level meeting between leaders from NARES in Sub-Saharan Africa, SROs (ASARECA, CCARDESA, CORAF), development partners and CGIAR Genetic Innovation took place on 27-28 June 2022 at the Trademark Hotel in Nairobi, Kenya.

During the meeting, participants as listed in Annex A agreed that / emphasized:

1. **Taking stock:** Substantial benefits have arisen from past collaborations between NARES, SROs and CGIAR centers in the area of Genetic Innovation, through research, capacity development and innovation; the sharing of information, germplasm and technologies; the better management and use of data; the wide availability of genetic resources, and joint fund raising.

19 **Need for country and regional coordination for all CGIAR Action Areas:** NARES and SRO participants appreciated this open level of interaction for the Genetic Innovation Action Area. There is similar need for country- and regional- coordination for the other Action Areas. The discussion of plans, joint identification of issues, challenges and solutions, and continued communication of insights will help in driving the change agenda forward.

This Aide Memoire is an accurate record of the conclusions of this meeting.

Witnessed by/Signed by: Name and Affiliation

1. Witness by CGIAR Representative Dr. Sonja Vermeulen

2. Witnessed by NARES Representative Dr. Mweshi Mukanga, ZARI

3. Witnessed by SRO Representative Mr. Ben Ilakut: ASARECA

Nairobi, 28 June 2022

19 Clauses build around common goals

- Strategic Alignment
- Co-design and joint priority setting
- Transparency, Attribution and Joint Decision Making
- Clear Roles and Responsibilities based on comparative advantage
- Capacity Development

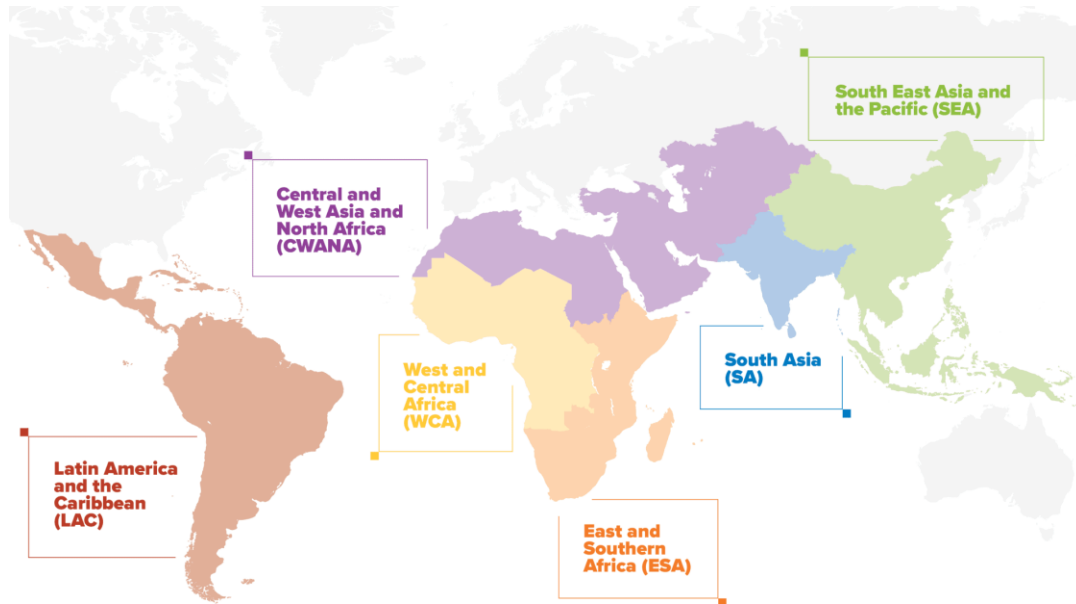
<https://www.cgiar.org/news-events/event/nares-cgiar-leadership-meeting/>

Networks have responded (1)



INITIATIVE ON
Accelerated Breeding

- Defining Networks systematically
 - 26 crop by region networks in SSA
 - Key partners for each network objectively identified
 - Governance mechanisms piloted
- > 20 Crop by Country Stakeholder consultations to define national priorities (product design team meetings)



Zambia Groundnut Market Segments and Target Product Profile (Sept 2023)

	Name	Role	Signature	Date
ZARI Groundnut Breeding Lead	Mr Lutangu Makweti	Groundnut Breeding Lead		2023-09-19
Endorsed by	Dr Dickson Ng'uni	ZARI Director		2023-09-19

Market Segment 3: SDT (Short duration tan) for food and food processing (High Yield, GRD Tolerant, ELS Tolerant, ...)						
Crop	Groundnut					
Country	Zambia					
SubRegions	Zambia Agro-Ecology 1 and 2					
Provinces	Eastern, Southern, Western					
Spill over countries	Zim, Namibia, Botswana					
Area (m ha)	44,040					
Material Type	Pure Line					
Biological Region/Eco System	Low to Mid Altitude					
Target Product Profile	Trait	Measurement unit	Min Score	Trait Category	Improve trait	Threshold trait
Color	Kernel color	Visual Assessment	Tan	Essential		Yes
Grain/Flesh type	Kernel size	D seed weight, caliph	Small	Essential		Yes
Processing traits	Oil content	%	<45	Essential		Yes
	Protein content	%	N/A	N/A	N/A	N/A
	Butter yield	%	N/A	N/A	N/A	N/A
	Ease of shelling	1 to 5	<3	Essential		Yes
	Shelling percentage (%)	%	≥65	Essential		Yes
	Flour content	1 to 5	<3	Nice to have		
	Blanchability	1 to 5	<3	Nice to have		
Consumption traits	Flavour/sweetness	1 to 5	<3	Nice to have		
Nutritional Enhancement	Zinc	N/A	N/A	N/A	N/A	N/A
	Iron	N/A	N/A	N/A	N/A	N/A
Agronomic & Disease traits	Oleic acid	%	>70	Nice to have		
	Yield under optimum conditions	tons/ha	1.8	Essential	Yes	
	Drought tolerance	%	er that comm	Essential	Yes	

Crop	Region	Network Name	Network Member (Country)	Hectares	WB Income Level	Institution
Beans	ESA	ECABREN	Kenya	1,169,419	2 Lower middle income	KALRO
Beans	ESA	ECABREN	Burundi	940,931	1 Low income	ISABU
Beans	ESA	ECABREN	Ethiopia	316,072	1 Low income	EIAR
Beans	ESA	ECABREN	East & West DRC	479,415	1 Low income	INERA
Beans	ESA	ECABREN	West & North Tanz	958,746	2 Lower middle income	TARI
Beans	ESA	ECABREN	Madagascar	58,724	1 Low income	FOFIFA
Beans	ESA	ECABREN	Rwanda	641,711	1 Low income	RAB
Beans	ESA	ECABREN	Uganda	381,155	1 Low income	NARO
Beans	ESA	ECABREN	South Sudan	1,218	1 Low income	DAR

Networks have responded (2)



INITIATIVE ON
Accelerated Breeding

Mali, Oct 2022



- > 50 peer reviews of individual national breeding programs leading to customized modernization plans
- GI is providing templates and tools based on goals identified in the Aide Memoire. Execution is led by crop x region networks.
- CTT has convened:
 - SRO strategic alignment
 - Need for GI wide coordination with common partners
 - Need to define Indicators of Success
 - Technical and Partnership quality

Zambia, Dec 2022



2023 Consultation Meeting



INITIATIVE ON
Accelerated Breeding

- 2022 meeting was instrumental in developing workplans and changing ways of working
- 2022 goals identified in the Nairobi Aide Memoire remain valid
- 2023: Continuous Improvement – Actions and decisions to bolster partnership strategies particularly in areas highlighted by the CTT
- Three sections:
 - 9AM Session I: What’s happened thus far?
 - 11AM Session II: SRO and ARI alignment
 - 130PM Session III: Areas needing further attention, measuring progress



Session I



INITIATIVE ON
Accelerated Breeding

- CWANA consultations
- PABRA: partnership lessons learnt
- ESA Potato Network: Co-design and priority setting
- DLC West Africa Network: Transparency and Joint Decision Making
- Discussion and Acknowledging Successes

Thank You!

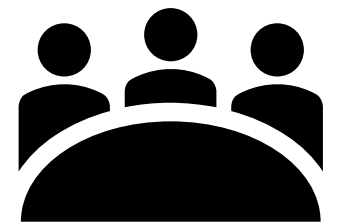


INITIATIVE ON
Accelerated Breeding

Breakout discussion

Dr Godfrey Asea (NARO)

- Based on the day's discussions, what are the key insights. And **three most important areas** to prioritize moving forward?
- Assess the **key indicators** – do they demonstrate progress on achieving our goals in improving CGIAR-NARES collaboration?



Thank you!

The Second Leadership Consultation Meeting *Genetic Innovation*





**LAKE CHAD
RESEARCH INSTITUTE**



CCARDESA
Centre for Coordination of Agricultural Research and Development for Southern Africa



AGRA
Sustainably Growing
Africa's Food Systems



MaRCCI
Makerere Regional Centre for Crop Improvement



**WEST AFRICA CENTRE FOR
CROP IMPROVEMENT
UNIVERSITY OF GHANA**