

Breeding ResourcesInitiative

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Breeding resources

Lead

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1. Strategic Modernization



2. Cost-effective Shared Services



3. Performance
Management of
Consistent, Connected
Operations



4. Smarter use of more data



5. Innovation
Development and
Research Exchange
(IDare)

Simulation and forecasting to inform investment decisions

Routine use of tools, technologies and services

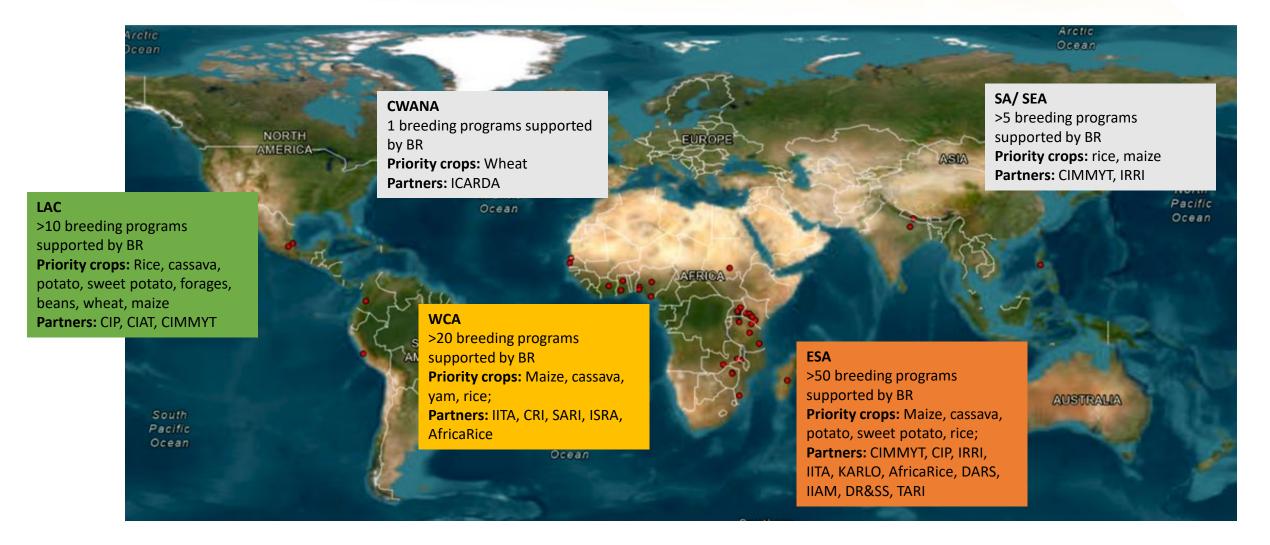
Continuous improvement of operations

Larger, powerful shared datasets for analysis and decision-making

Adoption across the CGIAR-NARES breeding network

Breeding Resources – geographic focus of results

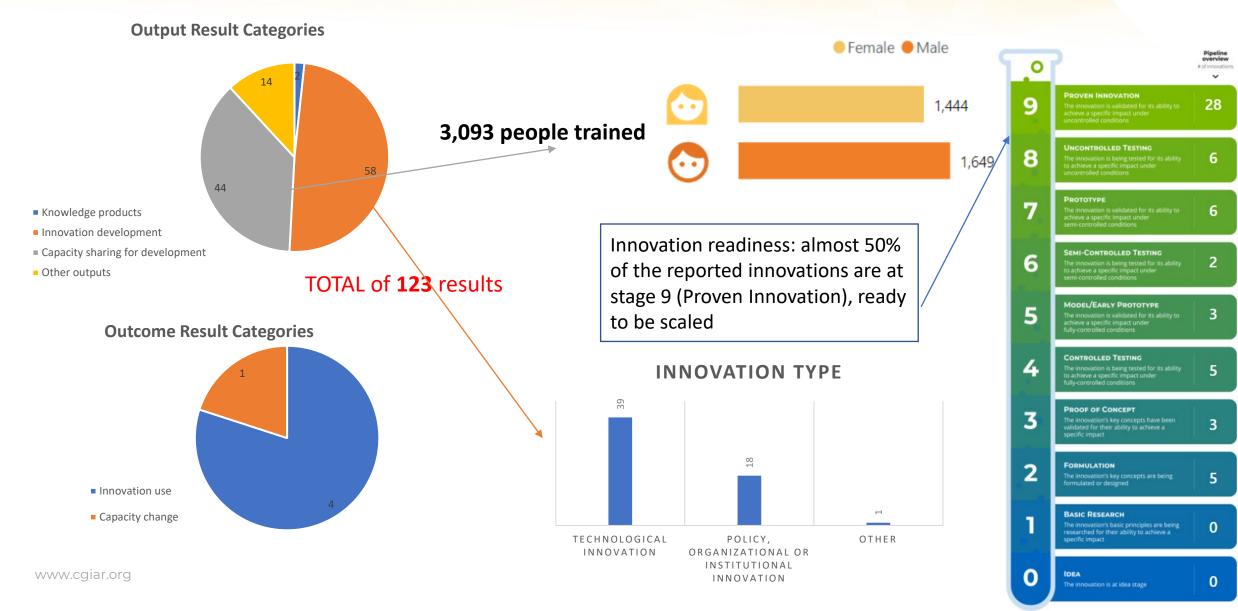




Progress 2022 - overview				
Work Package	Initial Focus Area	Scope Changes	Status	
1: Strategic Modernization	Informed investment into breeding modernization, guided by quantitative genetics simulation and costing of breeding programs and services	Costing of breeding programs now led by ABI Quantitative genetic simulation moved to ABI. Focus on services costing and forecasting.		
2. Cost- effective shared services	Cost effective data generation and analysis services through consolidation and collective bargaining	 No major change in data generating services Changes in data analyzing services: Pause in hiring global breeding analytics lead as strategy and sponsorship of setting up a service unit is re-assessed bioinformatics support capacity uncertain/deprioritized in funding. 		
3. Performance management of consistent, connected operations	Harmonize processes in breeding operations for generation of quality data across the CG-NARES network through a quality management system.	none		
4.Smarter use of more data	Reliable, responsive and future-looking Data Management System (DMS) for modern breeding.	none		
5. Innovation Development and Research Exchange	Increase global adoption of modernized breeding through a dedicated Modernization Facilitators service and change management support	Removed "modernization facilitator" – role determined to have too much overlap with CG-NARES network coordinators in ABI. Focused innovation scaling to those relevant for WP 2,3,and 4. Change management focus shifted to continuous improvement training and support, complementing Work Package 3. Reduced scope of capacity development to that relevant for delivery or uptake of services.		

Breeding Resources – 2022 key results





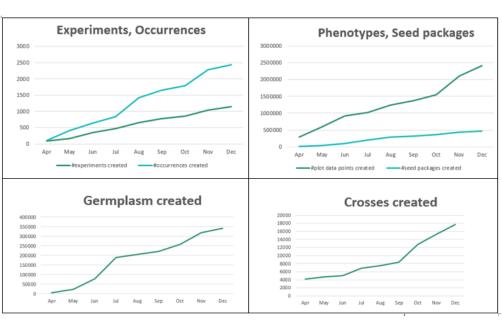
Success in 2022 – EBS Adoption



Current EBS users and adoption candidates for 2023.



October 2022 - In-person training at AfricaRice, M'bé Station.



Number of experiments created in 2022 using EBS.

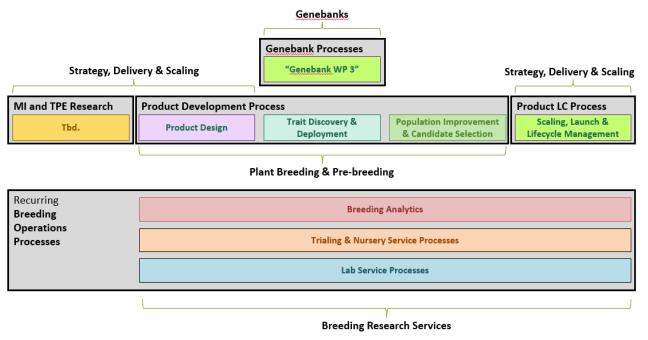


Dr. John Derera during event that launched EBS Maize at IITA in April 2022.



Success in 2022 - Genetic Innovations Process Model

The CGIAR Breeding Process Model (BPM) connects Genetic Innovations Departments



Blueprint and Benefits

Blacking and Benefits				
Current	Future			
Breeding teams, centers, regions and stations define their processes in isolation in the absence of an overarching architectural model.	 All Breeding processes follow the guidance of a CGIAR Breeding Process Model Transparent and structured overview, and hierarchy of all breeding processes across crops and functions 			
Benefits				
centers and crops • Easier to identify and prioriti	ze improvement opportunities aling of process improvements			

Higher level of standardization facilitates technology design,

Improved cross-crop- and center communication through

deployment and adoption

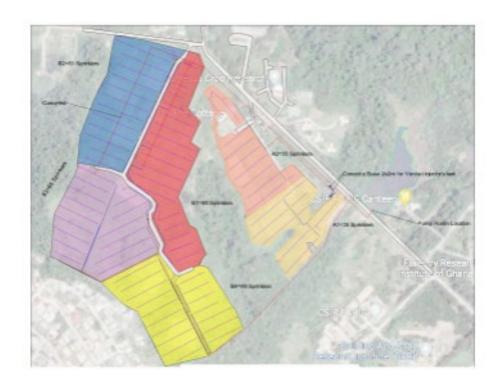
"one language"

Mi = Market Intelligence; TPE = Target Population of Environments; LC = Lifecycle

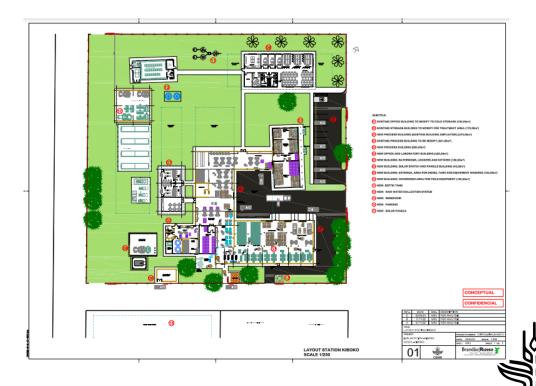


Success in 2022 – Trialing & Nursery support services

Irrigation system layout CRI/CSIR
- Kumasi Ghana



Seed processing infrastructure KARLO/CIMMYT - Kiboko / Kenya



Success in 2022 – Capacity Building

Field day KARLO - Kakamega/ Kenya



Continuous Improvement training CSIR/ CRI – Kumasi/ Ghana



