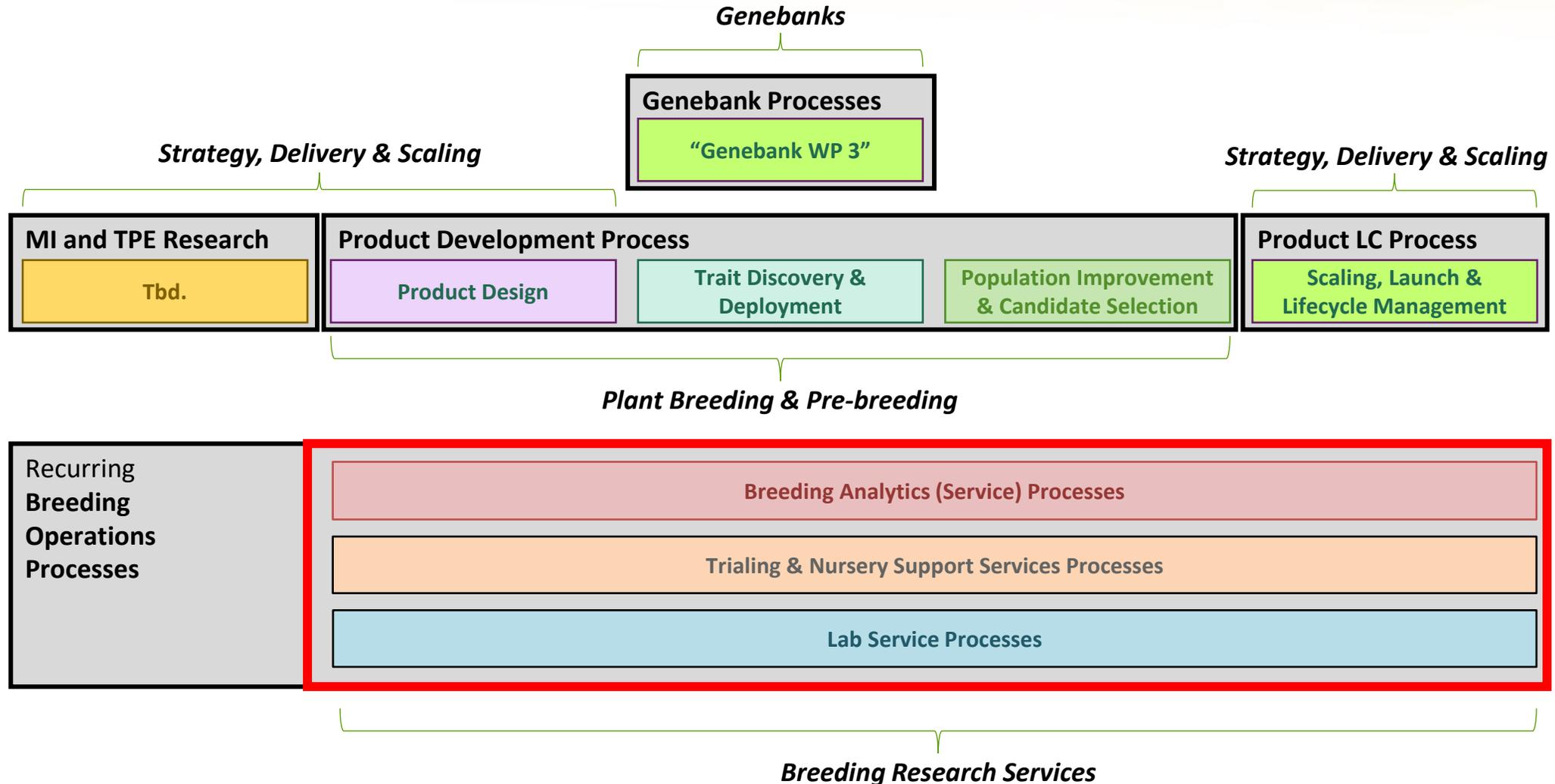




Process Management / Quality Management System

Dec. 6th, 2023

CGIAR Breeding Process Model (BPM)



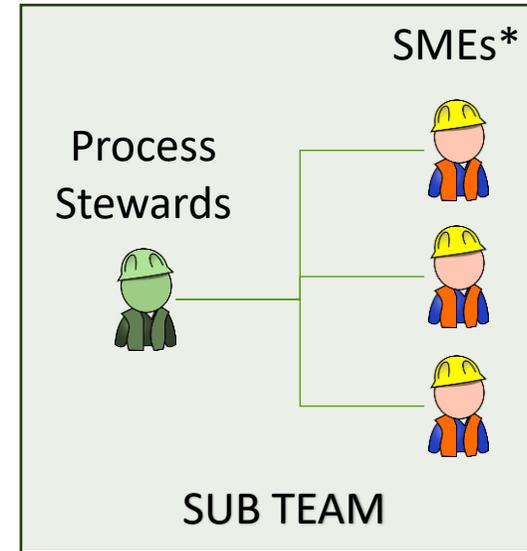
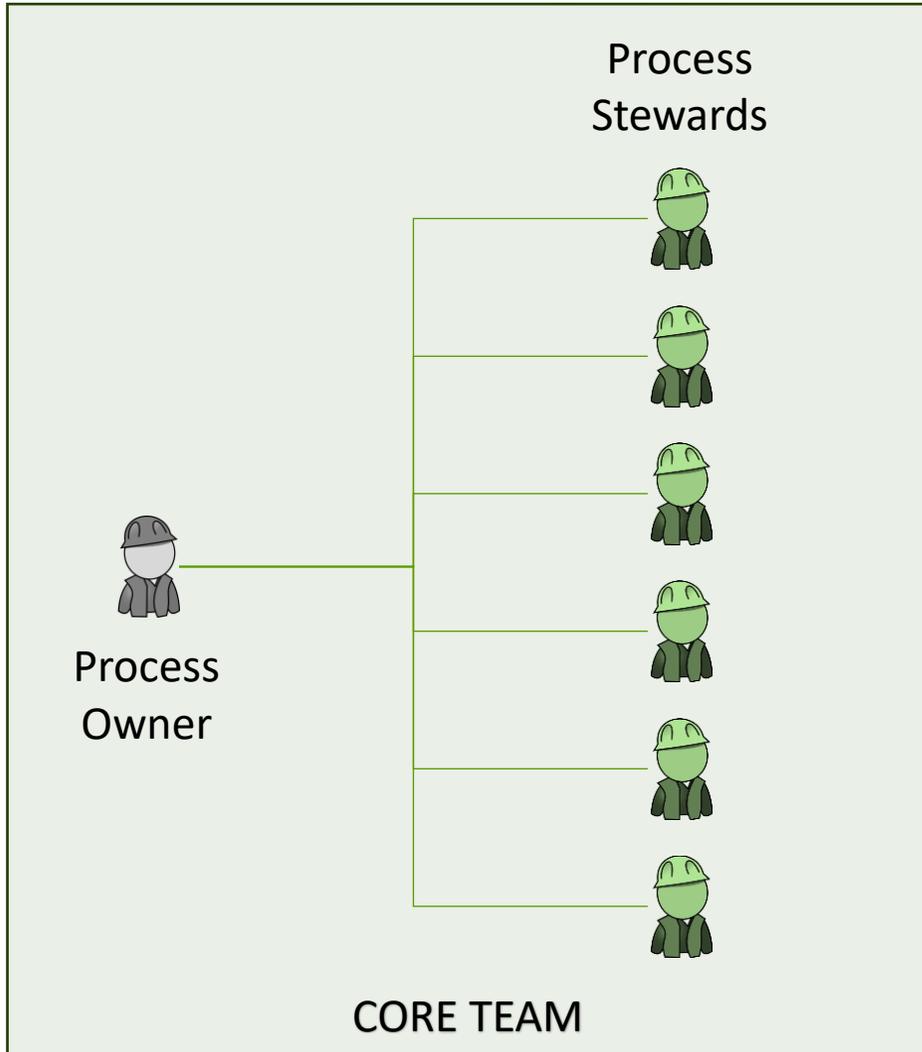
Mi = Market Intelligence; TPE = Target Population of Environments; LC = Lifecycle

What is our main goal?

- Process harmonization/ consistency
- Measurable processes
- Drive continuous improvement

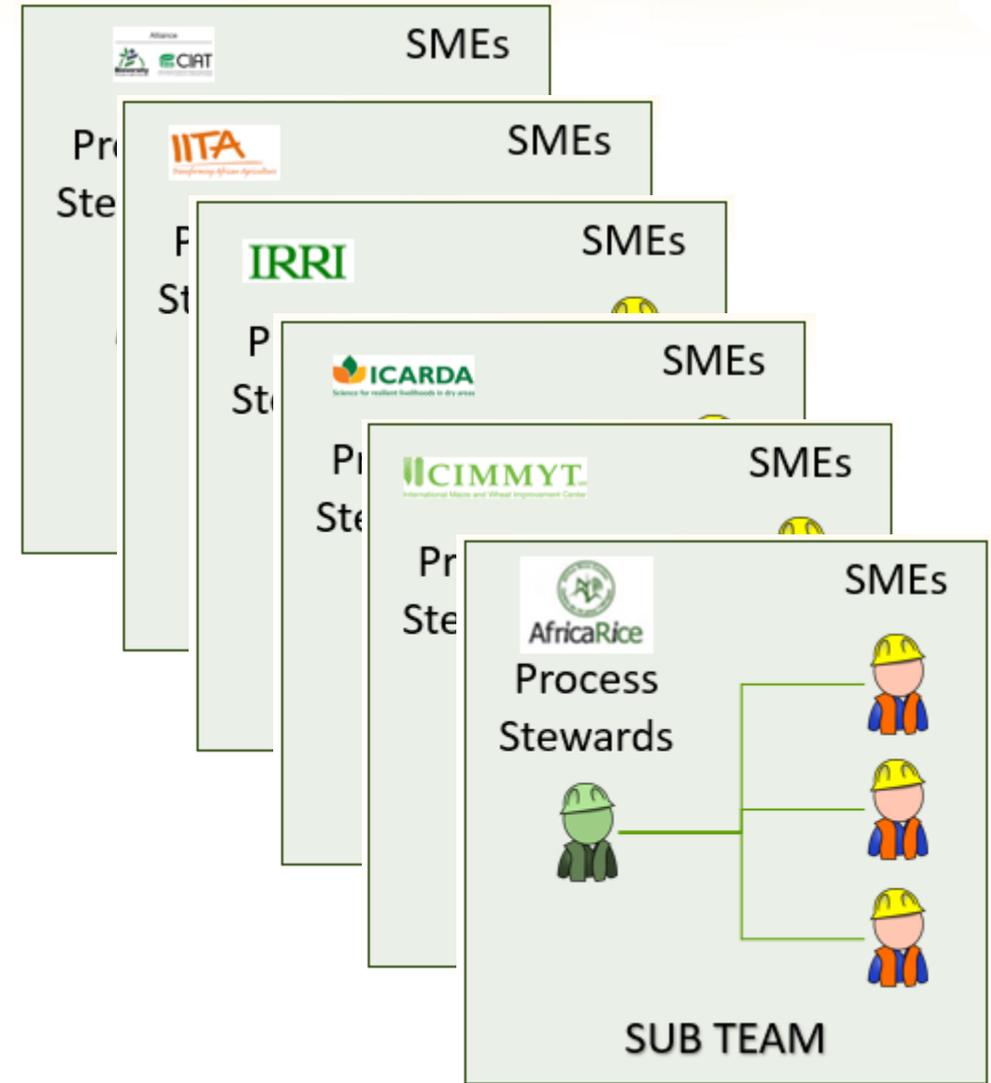
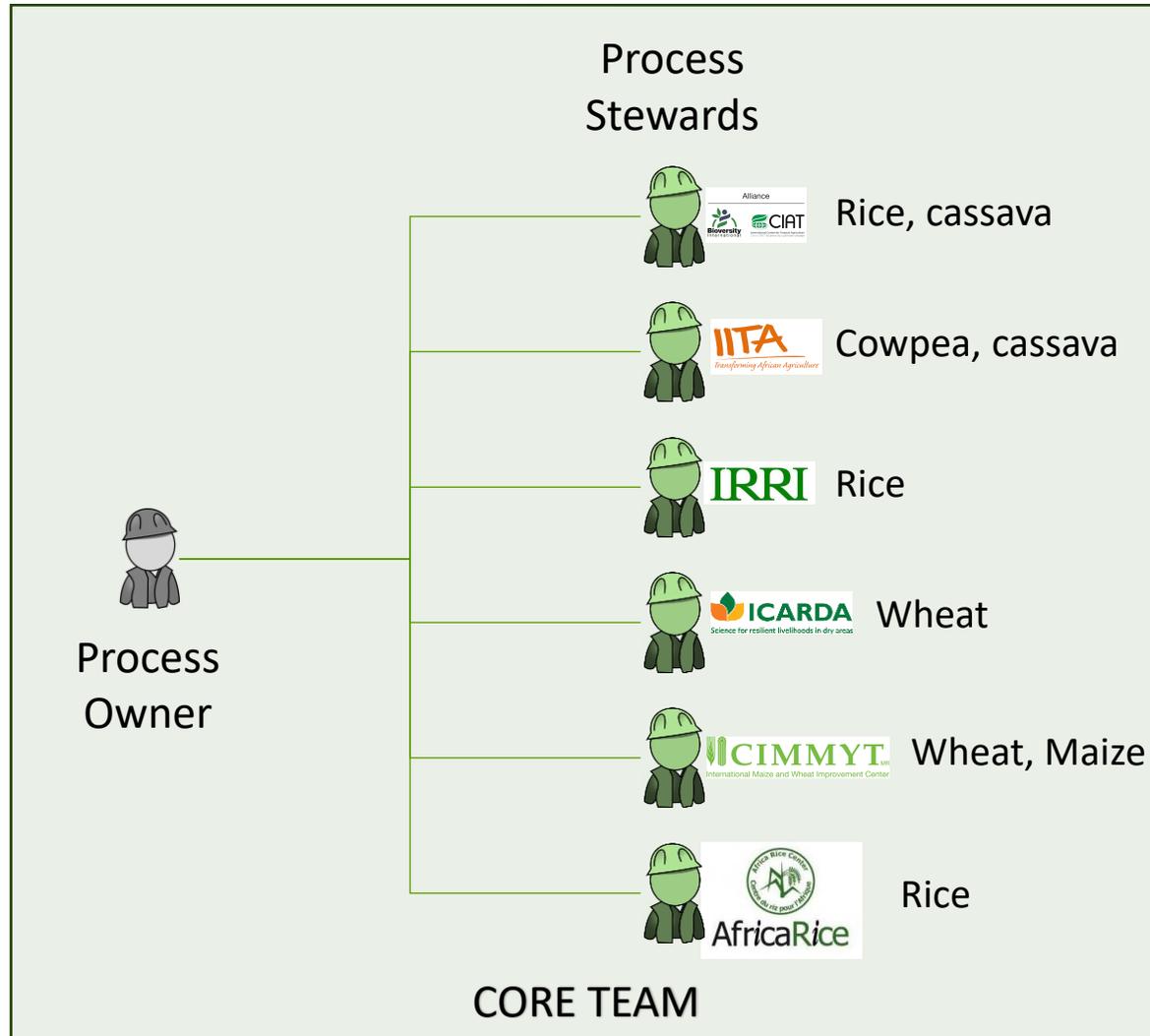
How can we do that?

Process Management Teams...



*Subject matter experts

Trialing & Nursery example...



1st Workshop of the One CGIAR Genetic Innovation – Trialing & Nursery Process Team ICRAF, Nairobi, Kenya, 5-8 June 2023



Trialing & Nursery Process Team



What has been done?



Trialing & Nursery Processes



SIPOC

Team: Trialing & Nursery

Template for SIPOC PPT Link: [TNP1-SIPOC Trialing & Nursery Processes \(FINAL 2014/05/06\)](#)



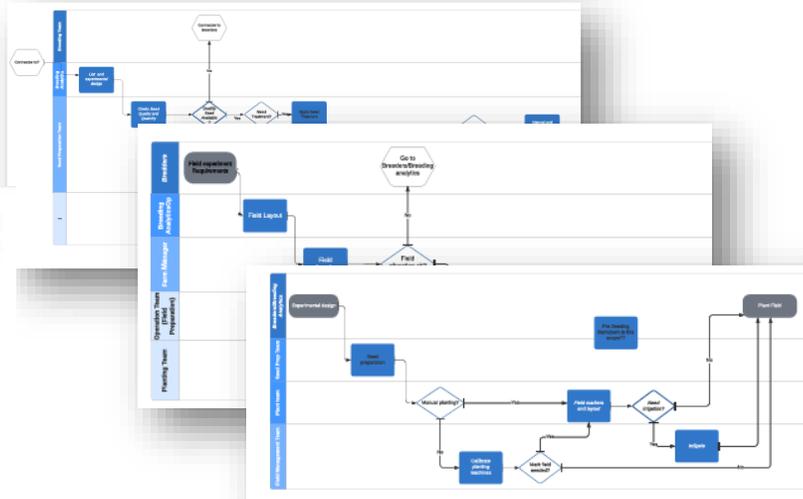
SIPOC

Team: Trialing & Nursery

Template for SIPOC PPT Link: [TNP1-SIPOC Trialing & Nursery Processes \(FINAL 2014/05/06\)](#)



	S	I	P	O	C
Supplier					
Procurement Team	Procurement Team	Crop management instructions	Field Management	Maintained plots	Breeding Pipeline Team
Breeding Pipeline Team	Breeding Pipeline Team	Equipment		Operational data	Data Collection Team
Genebank Operations Team	Equipment Maintenance Team	Chemicals	Research Operation Facilities Management		Harvest Team
Equipment Maintenance Team	Operation Team (Field Management)	Soil samples			Pollination Team
Procurement Team	Mechanical shop	Weather forecast	Crossing/Pollination	Well maintained machines	Operation Management
Facility Management Team	Maintenance tools and supplies			Well maintained research facilities	T&N Teams
IT Team	Information systems		Harvest Plots	Operational data	Operations Team
Farm Management Team	Equipment/Machines			Accurate inventories	Operation Management
Finance Team	Labor				Breeding Pipeline Team
Warehouse					
Procurement Team	Supplies			Successfully pollinated plants	Breeding Pipeline Team
Instructions	Parent List			Operational data	Harvesting Team
Breeding Pipeline Team	Crossing plan				Field Management Team
Operations Team	Labor				Operation Management
(Crossing/Pollination)	Maintained plots				
Isolation room					
Field Management Team	Harvesting Plan			Planting material for clonal crops	Post Harvest Team
Breeding Pipeline Team	Equipment/Machines				Breeding Pipeline Team
Operations Team	Supplies			Harvested seeds	Field Management teams
Equipment Maintenance Team	Labor			Harvest data	Operation Management
	Weather forecast			Operational data	



Start the development of key SOPs.

Seed Selection

SOP Number: [Dist. Acronym] DSE-1 | Version: 1.0-001 | Page 1 of 8

SOP Owner: First Name, Last name | SOP Approver: First name, Last Name

Process: Seed Selection | Next Reviewer Date:

1. Introduction & Purpose

Please describe relevant background information that is important for this procedure and include the reasoning/purpose for the SOP. If the purpose is required by regulation or compliance, identify regulations or procedures referred to in this section.

The purpose of this guideline is to describe the standard procedure for the Seed Selection Process (SSP) implemented at CGIAR breeding programs aligning to the CGIAR Breeding Process Model (BPM). SSP aims to select the seeds with high purity, germination, vigor, and quality; meaning these seeds are free from disease, free from mixtures, and without broken and unviable seeds.

2. Scope

Please briefly describe the coverage of what is included and/or exempted from this process. Identify the intended audience (who should be familiar with this SOP) and/or activities where the SOP may be relevant. Describe any known exceptions to the SOP. (Please refrain from adding policy or procedure detail in this section).

By standardizing and optimizing SSP, the goal is to improve the efficiency of different field operations and activities, and aims to bring significant positive impact on research quality and reduce operation costs. This can lead to more reliable and consistent research outcomes, contributing to the advancement of agricultural knowledge and practices.

3. Definitions & Abbreviations

Please identify and define frequently used terms or acronyms (in alphabetical order). Provide additional and/or relevant information needed to understand this SOP.

The following definitions and key terms are pertinent to this SOP:

SSP	Seed Selection Process
BPM	Breeding Process Model

Acknowledge

Breeding Analytics Core Team	
AfricaRice	Aubin Amagnide
CIAT	Luis Fernando Delgado
CIMMYT-Maize	Juan Burgueño
CIMMYT-Wheat	Keith Gardener
CIMMYT-DLC	Abhishek Rathore
ICARDA	Khaled Al-Sham'aa
CIP	Bert De Boeck
IITA	Ibnou Dieng
IRRI	Eduardo Covarrubias-Pazaran
ABI	Dorcus Gemenet

T&N Core Team	
AfricaRice	Shailesh Yadav
CIAT	Marcela Pineda
CIAT	Sandra Salazar
CIMMYT	Carolina St. Pierre
CIMMYT	Vijaya Chaikam
ICARDA	Safaa Kumar
ICARDA	Hoda Younes
IITA	Alick Mulenga
IITA	Prasad Peteti
IRRI	Princess Dela Cruz

Lab Service Team
Ana Oliveira
Rajaguru Bohar
Marko Karkkainen
Adriana Gonzalez
Nana Kofi
Bert De Boeck
Govindaraj Mahalingam
Maria Ymber Reveche
Asmita Bashyal

Special thanks to the Sub Teams members....

Acknowledge the consultants support...

Capacity Development

- Process Stewards
 - Continuous Improvement
 - Quality Management
 - Change Management

Next steps?

1. Development

- Strengthening Process Teams/ Core Teams/ Sub Teams
- Having more breeders/ breeding teams involved
- Improving Process documentation/ accessible to end users
- Developing more SOPs/Work Instructions

2. Deployment

- Capacity Development (Process Stewards/ SMEs)
 - Technical (SOPs/ Work Instructions)
 - Continuous Improvement
 - Change Management

3. Validation

- Incorporating KPIs / Metrics in the Operational Assessment
- Improving coordination between different assessments (BPAT/Operational Assessment/Breeding Network Assessment)
- Providing more visibility.

We have now all parts required for a QMS available or figured out...



How can you support us?

- Leadership involvement
- Center communication
- Personal KPI development
- Demand quality
- Seek accountability



CGIAR

Science for a food-secure future