Process Management / Quality Management System

Dec. 6th, 2023
CGIAR Breeding Process Model (BPM)

- **Genebanks**
  - Genebank Processes
    - “Genebank WP 3”

- **Strategy, Delivery & Scaling**
  - MI and TPE Research: Tbd.
  - Product Development Process
    - Product Design
    - Trait Discovery & Deployment
    - Population Improvement & Candidate Selection
  - Product LC Process
    - Scaling, Launch & Lifecycle Management

- **Plant Breeding & Pre-breeding**
  - Recurring Breeding Operations Processes
    - Breeding Analytics (Service) Processes
    - Trialing & Nursery Support Services Processes
    - Lab Service Processes

- **Breeding Research Services**
  - 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...

CORE TEAM

Process Owner

Process Stewards

Process Stewards

SMEs*

SUB TEAM

*Subject matter experts
Trialing & Nursery example...

- **Process Owner**
  - **Process Stewards**
    - Rice, cassava
    - Cowpea, cassava
    - Rice
    - Wheat
    - Wheat, Maize
    - Rice

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**CORE TEAM**

**SMEs**

**SUB TEAM**
### Acknowledge

#### Breeding Analytics Core Team

<table>
<thead>
<tr>
<th>Organization</th>
<th>Name</th>
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<tbody>
<tr>
<td>AfricaRice</td>
<td>Aubin Amagnide</td>
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<tr>
<td>CIAT</td>
<td>Luis Fernando Delgado</td>
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<td>CIMMYT-Maize</td>
<td>Juan Burgueño</td>
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<td>CIMMYT-Wheat</td>
<td>Keith Gardener</td>
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<td>CIMMYT-DLC</td>
<td>Abhishek Rathore</td>
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<td>ICARDA</td>
<td>Khaled Al-Sham’aa</td>
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<td>CIP</td>
<td>Bert De Boeck</td>
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<td>IITA</td>
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<td>IRRI</td>
<td>Eduardo Covarrubias-Pazaran</td>
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<td>ABI</td>
<td>Dorcus Gemenet</td>
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#### T&N Core Team

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<tr>
<td>AfricaRice</td>
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<td>Sandra Salazar</td>
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<td>CIMMYT</td>
<td>Carolina St. Pierre</td>
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<td>CIMMYT</td>
<td>Vijaya Chaikam</td>
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<td>ICARDA</td>
<td>Safaa Kumar</td>
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<td>Hoda Younes</td>
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<td>IITA</td>
<td>Alick Mulenga</td>
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<td>IITA</td>
<td>Prasad Peteti</td>
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<td>IRRI</td>
<td>Princess Dela Cruz</td>
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#### Lab Service Team

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<tr>
<td>Ana Oliveira</td>
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<tr>
<td>Rajaguru Bohar</td>
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<td>Marko Karkkainen</td>
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<td>Adriana Gonzalez</td>
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<td>Nana Kofi</td>
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<td>Govindaraj Mahalingam</td>
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<td>Maria Ymber Reveche</td>
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<td>Asmita Bashyal</td>
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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...

- Process Team Organization
  - PTs
  - PMT
  - PST

- Performance Measurement
  - Framework (PPMF)
  - Metrics & KPIs
  - BPIMS (future)

- Assessment & Auditing
  - Self Assessments (through PTs)
  - External (BPAT)

- Operations Enhancement
  - Expertise & services
  - QMS administration
  - Capacity Building

- Breeding IMT
  - QMS enablement
  - Data availability

- Process Documentation
  - BPM
  - SIPOCs, Maps, SOPs
  - Governance

Quality Management System
How can you support us?

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