

Seed Production and Pipeline Delivery

Seed production / processing and management principles

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09 June 2021 Gawie Groenewald





- // SPPD Site overview
- // Operational overview
- // Shelling operations
- // Seed processing
- // Virtual site tour
- // Q&A





Facility update: Africa mega breeding hub

- Summer nursery site
- 160 ha (107 Cultivated)
- 55 ha under irrigation
- 2 big wells, irrigation water supply-drilled in 2000
- 2 buffer irrigation dams

SPPD operations:

- Nursery operations
 - XD(initial crosses), increases/Self, observation
- Dryer facility
- Fumigation chambers
- Selection area
- Processing line/ Shelling line
- Seed storage facility
- Seed processing (nursery & yield trial processing/ packing)
- Equipment maintenance and bulk storage of consumables





• Functions on site:

 Breeders, SPPD team, FS, Pathology, Phenotyping, Pre-foundation, Operational Team,

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Malelane site Overview

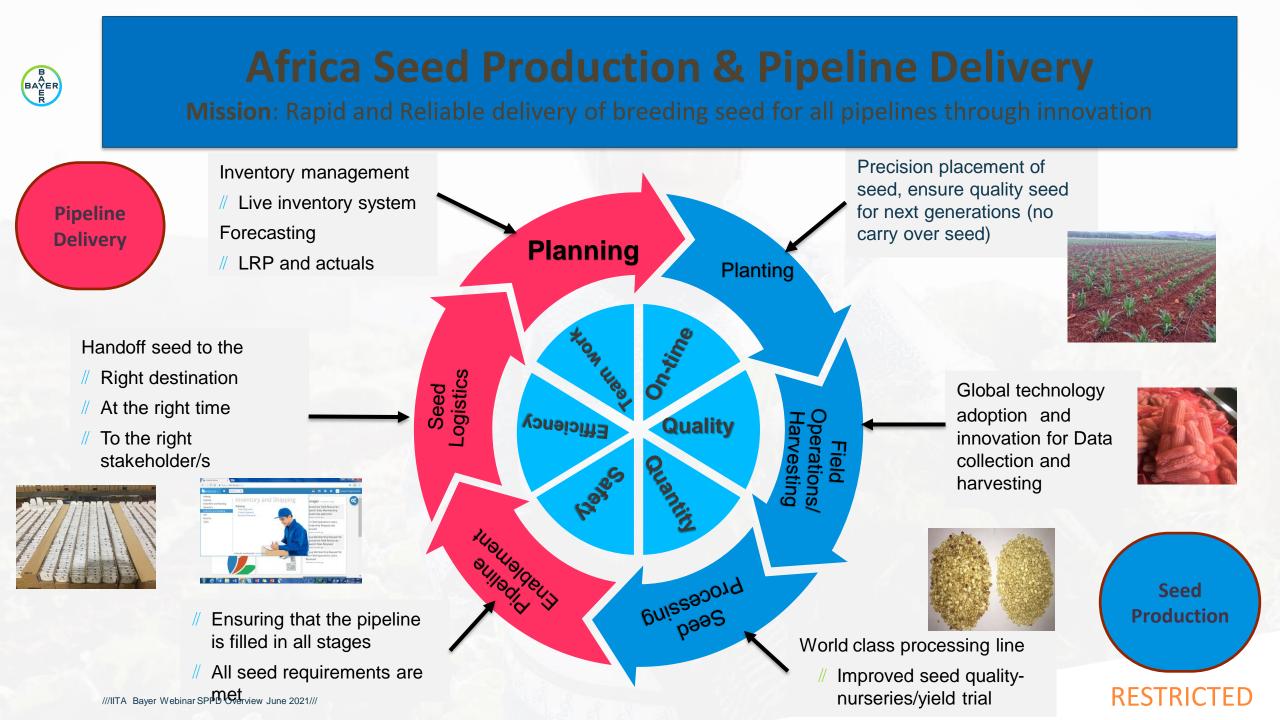
Facility update: MSP

- Summer / Winter nursery site
- Consist of 2 farms
 - Vongotti-35ha
 - 29 ha-drip irrigation
 - Makhundu-65ha
 - 50 ha-drip irrigation
- Lomati river
- <u>SPPD operations:</u>

- Increases, observation nurseries and hybrid makeups, CFT trials, MD trials
- Equipment maintenance
- Functions:
 - SPPD Team,
 - FS
 - Pathology,
 - Pre-foundation,
 - Market development and Vegetables

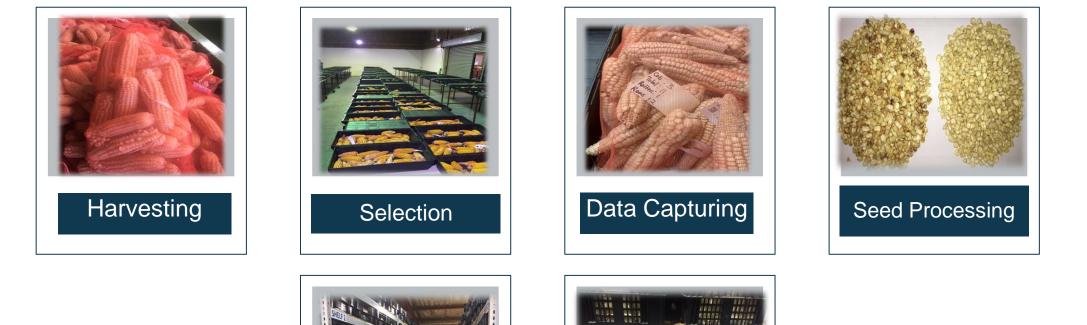








Ensuring Seed Quality through Processing QC steps at each part of the process

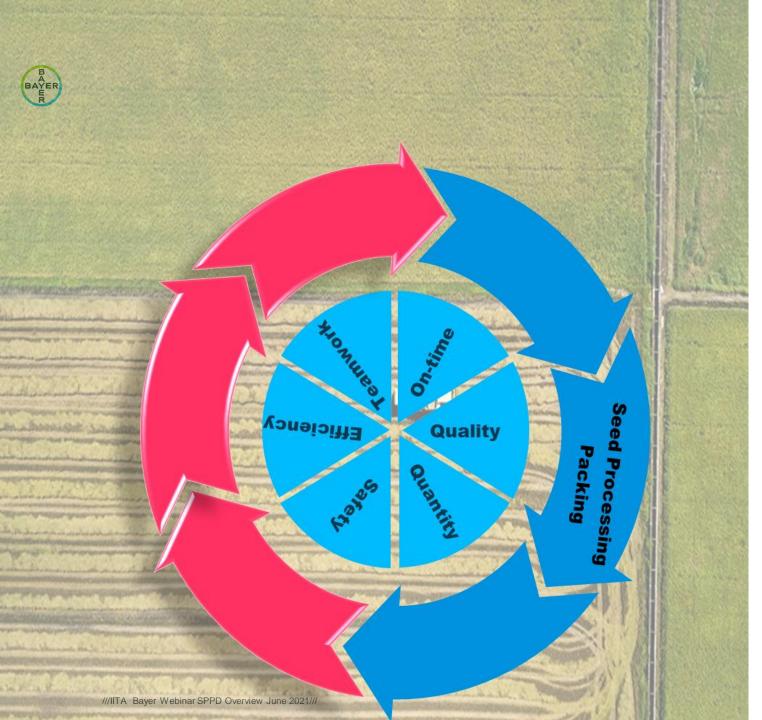






Allocations

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Seed preparation for planting:

- // List of entries send trough to storage facility-Breeder/RA
- // Pull entries out of SU
- Place (Map) entries on field
- // Print envelopes to be counted out
- // Count out seed from source packet
- Sort entries by planting order
- // Scan for QC
- // Ship for planting
- // Same process
- **Nurseries**
- // Yield trials

All seed needs to be traceable- from cradle to grave

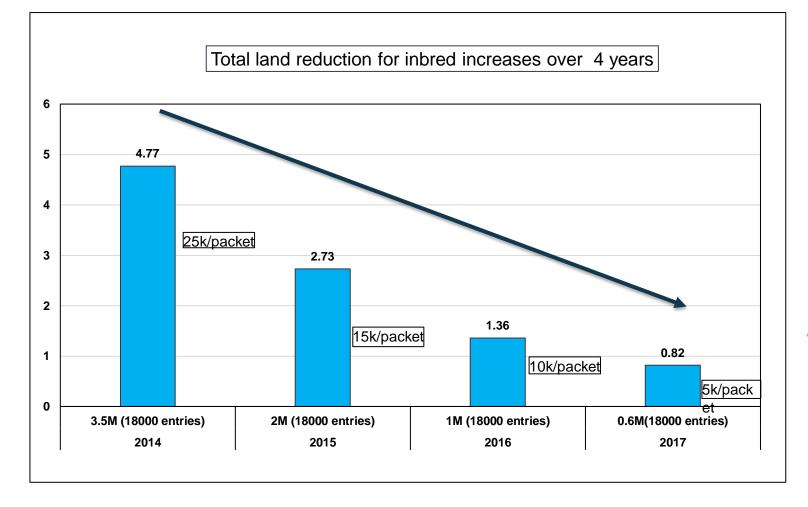
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Driving Productivity through Efficiency

Data is the key enabler to driving efficiency in the workplace







Know your need:

- // Seed Requirements
- // 500 kernels
- // Row length
- // # of rows
- // Kernels per packet
- // Land Space
 - // How much?
 - // Optimise
 - // Sustainable practices



Visual Site Tour





Thank you

