

Hybrids (major cereals) Public-Private Archetype

Bottlenecks



Seed characteristics

- Hybrids are highly exclusive
- High multiplication rates
- High level of counterfeits/ seed not true to type
- 3 way crosses require high technical skills



Regulatory

- Low capacity for certification
- No intellectual property system operational
- No formalised exclusivity arrangements
- NTR disincentive for institutes to produce EGS efficiently



Demand characteristics

- Little market pull for improved varieties
- Limited knowledge farmers on difference between hybrid varieties and OPVs
- Free Distribution hampers brand building seed companies



EGS production

- Limited technical capacity of breeders, seed company and out-growers
- 2 rounds seed bulking needed to create 3 way crosses
- Fragmented value chain – no clear EGS demand forecasting
- Lack of trust amongst producers on quality issues
- Lack of appropriate facilities at institutes and seed companies

Private archetype for private sector developed varieties

Objective: import parental lines and produce high quality hybrid seed locally

Public Private partnership for public varieties

Objective: sharing of parental lines & stimulating uptake of Ugandan bred varieties through exclusive licencing. Exclusive licencing will stimulate brand development by SC

Roles and responsibilities public private partnership

Breeder seed

- Breeders produce sufficient parental lines at institute
- SC pay full production cost (appr. UGX 1M/kg)
- NARO provides DNA finger printing services
- External inspection by NSCS / AgVerify (private sector)

Foundation seed

- Exclusivity contracts between NARO and SC
- 1st and 2nd crosses produces at seed company farm or SC outsource crossing to breeder/institute
- Breeder provides supervisory support & capacity building to SC staff at a fee
- External inspection by NSCS/ AgVerify

Commercial seed

- Seed companies produce seed on farm or use out-growers
- Marketing through formal channels
- External inspection by AgVerify

