

# Thoughts on Breeding for Storage and Processing

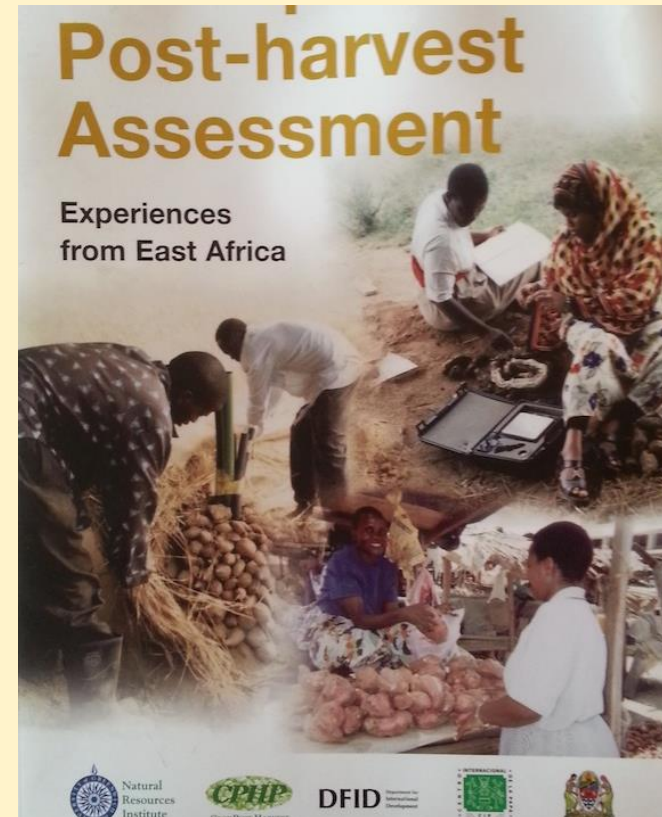
Sweetpotato Breeders Meeting 2014,  
Blantyre, Malawi

Ted Carey



# Previous work on shelf-life

- Distinction between shelf-life and long-term storage
- Susceptibility to damage – scuffing + impact damage
  - Weight loss, rotting,
- Wound healing under sub-optimal (low RH conditions)
  - Lignification assessment with simple stain - phloroglucinol



# Thoughts, past work and plans



- Resistance to shrink in difficult market chains
- Two populations, A and B, in order to exploit heterosis in coming years
- Separation of early and later-maturing material at PT in order to ensure advance of OFSP
- Strengthening breeding capacity in northern Ghana through expansion of ATs and OFTs linked to seed program
- Recurrent selection of breeding populations while also identifying good parents

# Storage concept: Potato ventilated pit storage from Afghanistan



# Commercial Storage in Bawku, Ghana



# Seemingly promising technology Storage in dry sand till consumed



Implemented 88 hh in 4 communities + planned for 2014



# Processing



- Breeding programs need to be guided by user / “ industry” requirements
- Dry matter, etc

# Thank you



*Our vision is roots and tubers improving the lives of the poor*



**CGIAR**

Science for a food secure future

