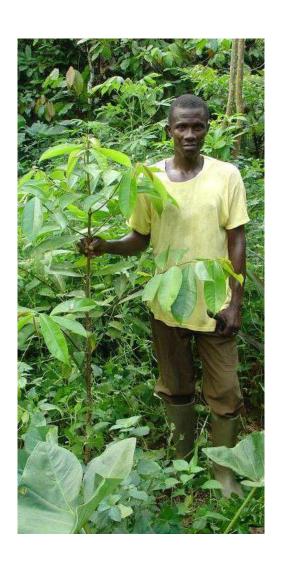
# Demand and Supply Chains for a Novel Food Commodity: Growing the Allanblackia Market



Tony Simons (ICRAF) and Rob Diks/Jeroen Oostenenk (Unilever)

# **Growing the Allanblackia Market**

- 1. The Novel Opportunity
- 2. The Challenges
- 3. The Innovation (Science, Partnership and Delivery)
- 4. What has been learned?



# 1. The Novel Opportunity



- A new solid food oil (fat)
- Unique oil profile
- Used locally for >100 years
- Never been cultivated, only in wild
- Only found in Africa, but declining
- Diversification and Intensification
- Complement existing supply chains
- Global demand potential

### Allanblackia Seed Oil

- About 55% is stearine
- Contains 3 triglycerides:

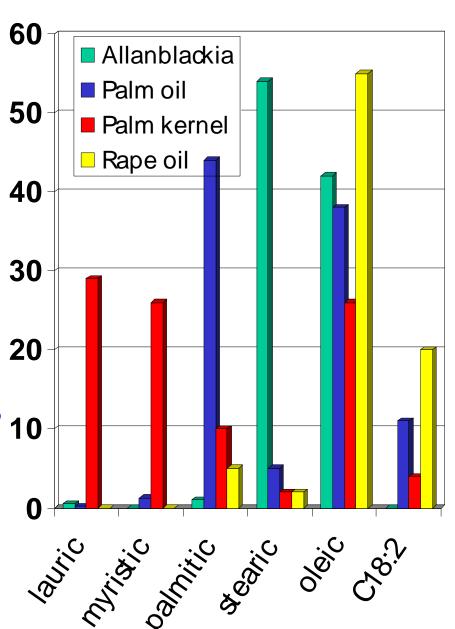
• SOS 70%

• SOO 23%

• OOO 4%

where s = stearic and o = oleic

 AB oil can not be mimicked by mixing other oils and fats





#### **Biological**

- Separate male and female trees
- Irregular fruiting each year
- Takes 12-15 years to fruit
- Takes 12-24 months for seed germination (<5% germination)</li>
- Large tree (30-40m)

#### **Cultivation**

- Only grown in wild so far
- No farmer experiences
- No horticultural management knowledge

#### **Social and Logistical**

- Local communities uncertain of its value
- Need to avoid dominance by a few, and inequity
- Uncertain storage and spoilage issues
- Avoid village level crushing and contamination
- Move all wild harvest to cultivation supply chains
- No food grade clearance in Europe before partnership



Fruit characterization and germination experiments



## **Germplasm collections**

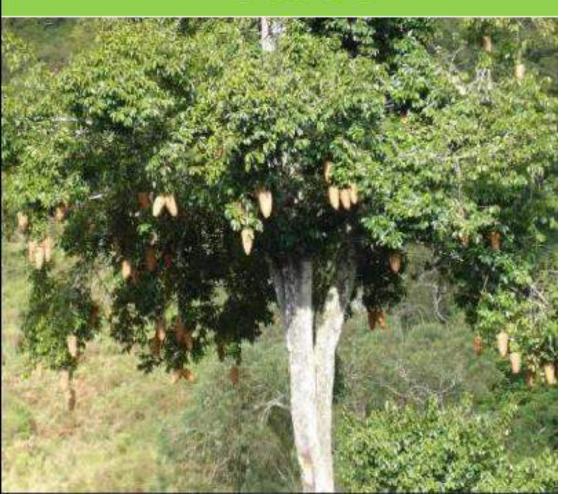


Plus trees
150 trees Ghana
117 trees in Cameroon
120 trees in Tanzania

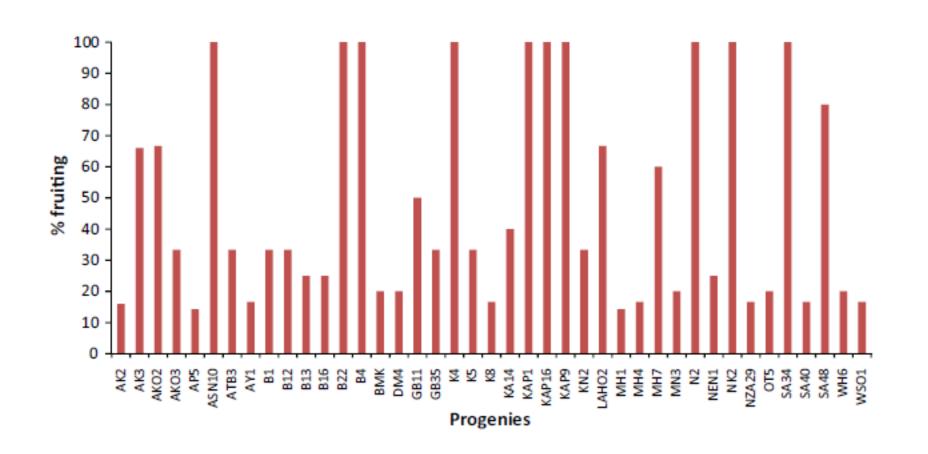
500 fruit on one tree in Amani Up to 4.5 kg per fruit



# Allanblackia Propagation Protocol



#### Fruiting variation for selected 7-year old female trees at Subri, Ghana



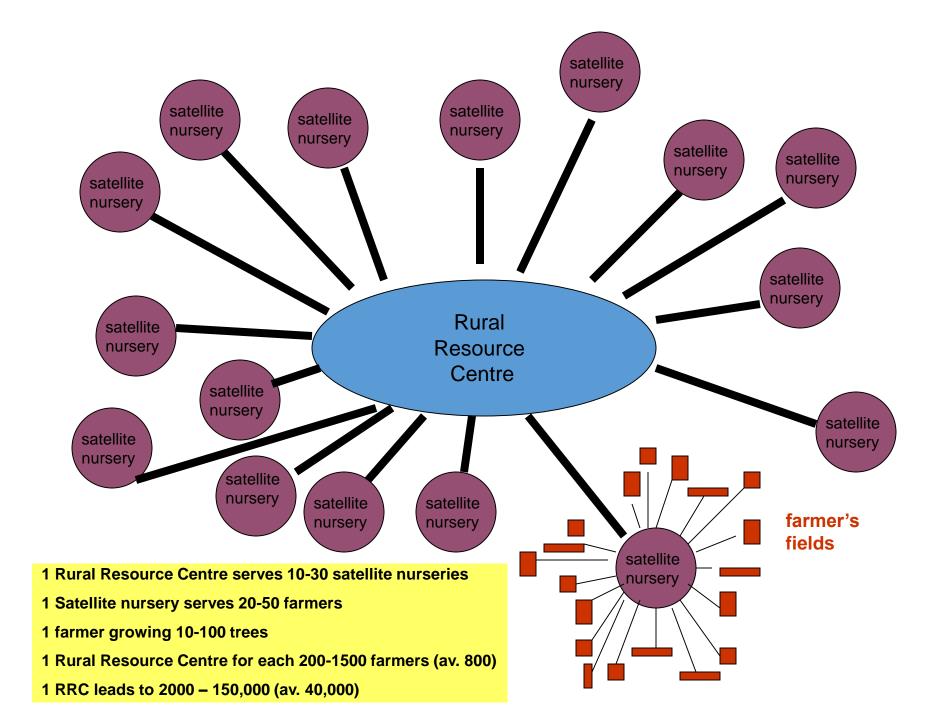


# Village nurseries



#### **Rural Resource Centres**

- Source of Knowledge
- Skills training
- Demonstrations (nursery, field, mother block)
- Registration of collectors, buyers, nurseries, producers
- Germplasm source
- Materials (bags, chemicals, equipment)
- Venue for partners to come together





First time fruiting of a 6-year old tree, producing 80 fruits

#### Supply chain and market development for Allanblackia nuts in Tanzania





men and women involved in wild collection, processing & sale of nuts









men & women involved in wild collection

Oil export to International market



37 buying centres in operation



Oil mill at Tanga for oil extraction

# Allanblackia margarine launched in Sept 2014

#### **NEW ingredient list:**

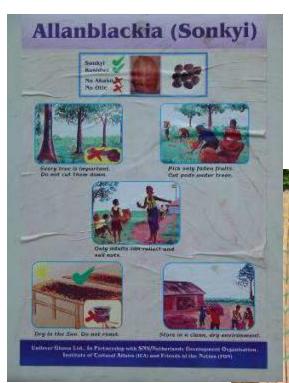
vegetable oil (sunflower, allanblackia seed \*, palm, linseed, rapeseed) (79%), water, BUTTERMILK (0.5%), salt (0.9%), lactic acid, natural flavouring, vitamin A and D



\* Allanblackia seedoil comes from trees – named after botanist Allan Black – they produce large fruit pods with seeds that are naturally rich in oil and which is a valuable natural ingredient for heart healthy products.

#### **Success Factors**

Strong market demand for unique product Private Sector pre-financed Long-term perspective of Unilever Early returns for small-holders High trust built (no NDAs) Knowledge intensive (delays free-riders) Pre-competitive enterprise eventually Strong buy-in from national partners Strong scrutiny from CBOs, NGOs, IARCs Evolution from research to commercial funding



#### 4. Lessons Learned



False assumptions on wild harvest











**Involvement of local** 

**Forest officers is** 

**important** 

FARMER'S
ALLANBLACKIA
TREE PLANTING
LOGBOOK



WA MITI YA MISAMBU
KITINI CHA MKULIMA

		Research Institution Needs							
		A. Awareness of business orientation/effic (seek to replicate)	B. Funds through Public Private Partnership	C. Funds direct from private sector	D. Understand market demand side priorities/ opportunities	E. Greater impact and scaling up	F. Increased visibility/comm unication of our work		
Private Sector Needs	Identify/manage supply chain risks								
	2. Technical inputs to initiatives, and instrumentation								
	3. Ease of operation in countries, set up business hubs/incubators								
	4. Investment validation, pulling in other finance								
	5. Policy change, advocacy								
	6. Credibility by associating with us								
	7. Internal review/audit of ventures								
	8. Contract research for deliverables								
	9. Retained advisers for rapid response								
	10. Justify to their staff need for changes								
	11. Germplasm access, multiplication								
	12. Interfacing/convening and aligning role								
	13. Training Programmes								

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