



International and Regional Perspective on Cotton Seed Importance and Impact

Wolfgang Bertenbreiter | 28.07.2020

History



Competitive African Cotton Initiative

- implementation period 2009-2018
- active in 12 countries
- reach-out close to 1m farmers
- Organisation of regional seed workshops

Mozambique specific

- reach-out close to 80.000 farmers
- support of IAM in maintenance breeding in cooperation with CIRAD
- support of the seed sector study

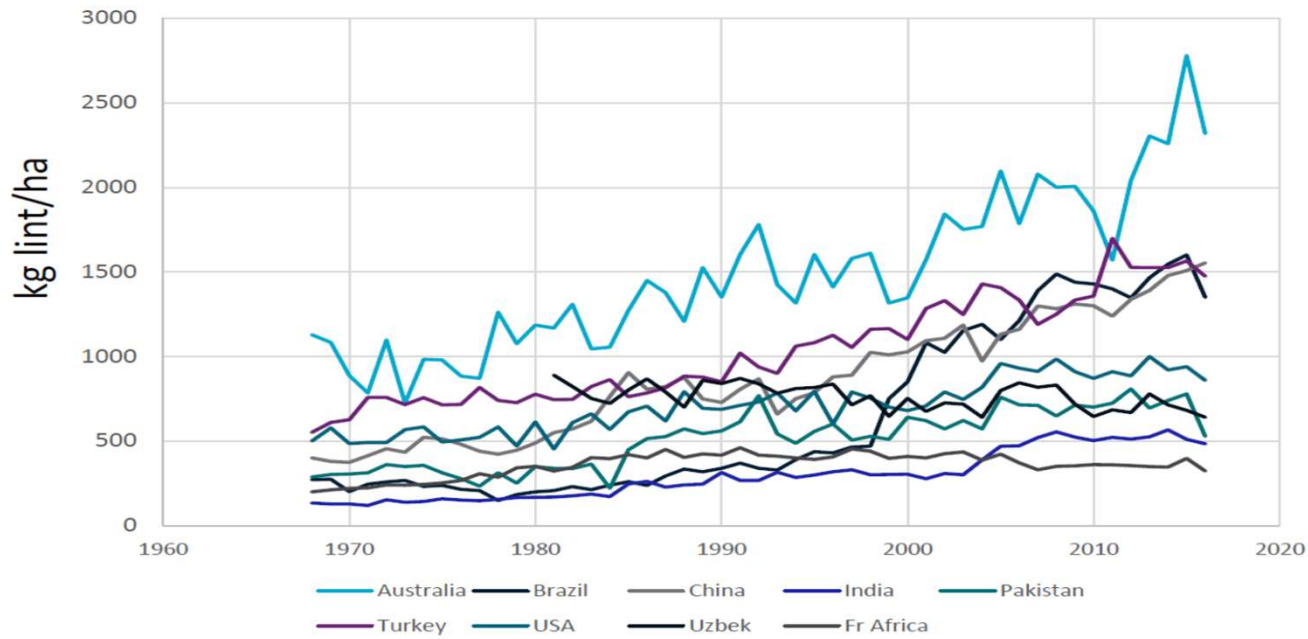


Cotton Production in Africa

- 28 producing countries
- approx. 4.5 mio. ha
- > 1.5 mio. mt fibre
- close to 5 mio. small scale cotton farms
-that support >20 mio. people
- average yield < 350kg/ha



Global trends in cotton yields (kg lint/ha)



Source - ICAC



Age of Cultivars in selected African countries

Country	Main cultivated varieties	Origin	1 st release in the country	Access to instrument classing for breeding (samples/year)
Benin	ANG956 OKP768 KET782	Benin	2013	Not locally
		Benin	2013	
		Benin	2013	
Cameroon	IRMA L484 IRMA Q302	Cameroon	2009	Yes (2,500 to 3,000)
		Cameroon	2012	
Côte d'Ivoire	Y764A Sicama V2 Gouassou F2	Côte d'Ivoire	approx. 2000	Yes (?)
		Côte d'Ivoire	2019	
		Côte d'Ivoire	2019	
Mozambique	ISA 319 (CA324) Albar SZ 9314 Chureza Albar QM 301 FK37 CIMSAN 1 CIMSAN 2	Côte d'Ivoire	1999	Yes (?)
		Zimbabwe	?	
		Zambia	?	
		Zimbabwe	2016	
		Burkina Faso	2016	
		Mozambique	?	
Tanzania	UK91 UKM08	Tanzania	1991	Yes (1,000)
		Tanzania	2008	
Zambia	Chureza F135 CDT II CDT V	Zambia	1977	?
		Côte d'Ivoire	1995	
		Zambia	2005	
		Zambia	2010	



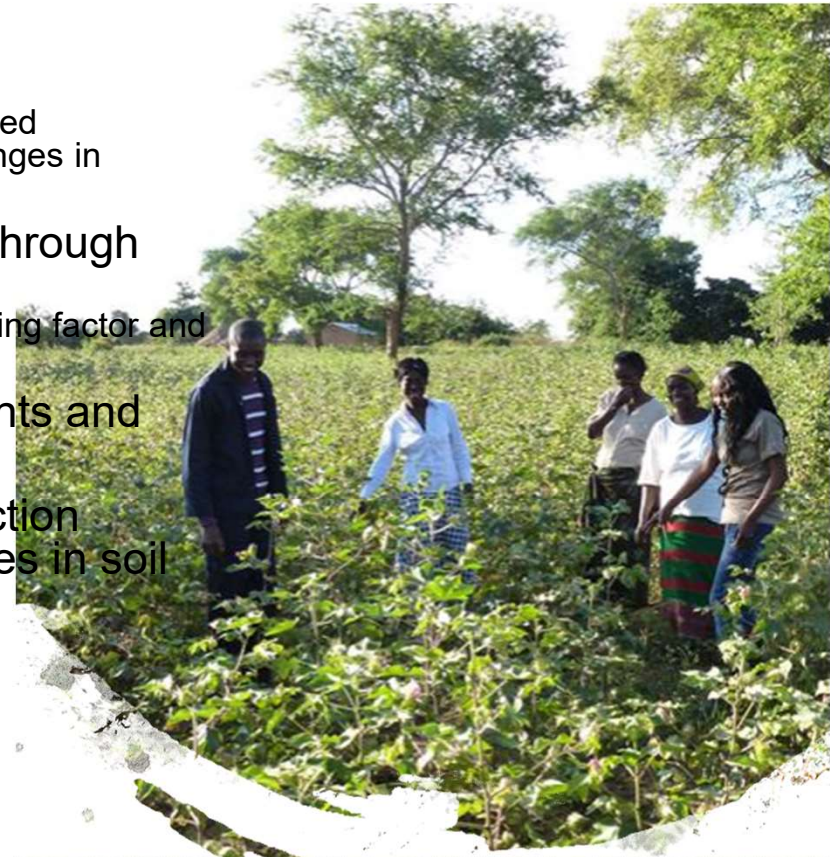
Seed Production Aspects in selected African Countries

Country	Seed needs (tons)	Type	Sowing rate recom./effective (kg/ha)	Delinting capacity	Acid use (kg/ton)
Benin	15,000	Fuzzy-dressed	20/50	no	No
Cameroon	4,000	Fuzzy-dressed	35	concrete mixers (14)	180
	7,400	Delinted	10 to 12		
		Delinted-dressed	10 to 12		
Chad	30,000	Fuzzy-dressed	50	no	No
Ethiopia	NA	Fuzzy	45	concrete mixers	155
		Delinted	12.5		
		Delinted-dressed	12.5		
Côte d'Ivoire	15,000	Fuzzy-dressed	30/50-55	no	No
Mozambique	1,500	Fuzzy or delinted dressed or not	12?/30	NA	Not available
Senegal	500	Delinted-dressed	20	1 plant	20
Tanzania	4,000	Fuzzy-dressed	20	1 plant	25
	4,000	Delinted-dressed	10		
Zambia	1,400	Fuzzy-dressed	15	concrete mixers	Not available
	2,600	Delinted-dressed	8		



Learnings

- Extensive Germplasm is available
- Breeding is expensive and long-term
Cultivars used are well adapted, potential still not fully exploited
Return of investment is often better and quicker through changes in management
- Must be realistic about what can be achieved through breeding
e.g. if yields are low to lack of nutrition, variety is not the limiting factor and breeding will achieve little again
- New cultivars can address production constraints and improve yields
- New cultivars will not solve some major production issues these needs to be addressed by changes in soil and crop management



Learnings

- Seed production , processing and handling has to be optimized to guarantee quality seed
- Delinting is key for quality seed production
- Delinted seed needs still cleaned and gravity graded before treatment and storage
- There will be a significant return of investment to all stakeholders of the sector by producing quality seed



Thank you for your attention!

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