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Challenges and Opportunities on Empowering Small-Scale Farmers in Africa with Novel Soil Fertility Management Technologies

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The Urgency of Now: Africa Must End Perennial Food Crisis

- Rising food prices pose economic, social and political instability challenges
- Low income food deficit countries are most affected
 - Food imports increased from \$88 billion (2006) to \$ 119 billion (2007)
- Poor net-buyers of food are hurt the most
- Africa is a net-food importing region
 - Cereal imports increased by \$ 2.7 billion from 2006-2007
- Governments need to assure national security
 - Amartya Sen's theory (ability to access is key) does it hold?
 - "Food self-sufficiency" versus "food security"



	2005	2006 2007 (US\$ billion)		2008 [*]	Increase 2007 to 2008			
Rice	1.82	1.94	2.07	5.76	278 %			
Maize	0.57	0.71	9.49	14.3	151 %			
Wheat	2.09	2.63	3.49	4.96	142 %			
Fertilizer	1.30	1.33	1.90	3.69	194 %			
TOTAL	5.78	6.61	16.98	28.71	169			

















Achieving the African Green Revolution

Home Grown Policy: Malawi adopts "smart subsidies" and achieves a revolution

- 2005/06: \$50 Million subsidy with Government distribution
- 2006/07: \$60 Million "smart subsidy"
- 2006/07: Private sector distribute inputs for the 1st time
 → Private sector sold \$25 million of seeds and fertilizers
- Maize green revolution
 > 400,000 MT surplus in 2005/06
 - > 1.3 Million MT surplus in 2007
 - Exports \$ 160 million of maize
 - Donates 10,000 MT of maize to Lesotho and Swaziland!

SHP Sub-Programs

1. Fertilizer Supply Program (FSP)

 Focuses on the production and distribution (i.e. importing and wholesale) elements of the fertilizer supply chain

2. Soil health training sub-program (SHTP)

 Seeks to work with national governments to invest in African extension workers, technicians and scientists to facilitate the development and extension of new and existing ISFM technology packages

SHP Sub-Programs

- 3. Soil health research sub-program (SHRP)
 - Focuses on supporting the development, adaptation and fine-tuning of ISFM technologies
- 4. Soil health extension sub-program (SHEP)
 - Focuses on scaling up ISFM technological packages to thousands of farmers

Achieving an African Green Revolution: AGRA and the Fertilizer Procurement Program

Andre Bationo

Lack of Infrastructure Is Killing Africa

Kilometers of paved roads per million people in selected countries

	Km		Km
USA	20,987	Guinea	637
France	12,673	Ghana	494
Japan	9,102	Nigeria	230
Zimbabwe	1,586	Mozambiqu	e141
South Afric	ca1,402	Tanzania	114
Brazil	1,064	Uganda	94
India	1,004	Ethiopia	66
China	803	Congo, DR	59

Source: Encyclopedia Britannica, 2003

A better, more secure future: A new, efficient, dynamic and competitive agricultural sector will unlock hope for millions of children!

