



UNIVERSITY OF NAIROBI



GROWING THE SEED INDUSTRY THROUGH CAPACITY BUILDING – SEMIS OVERVIEW

SEED BUSINESS MANAGEMENT COURSE

6th – 11th March 2017

Prof. Agnes Mwang'ombe, EBS

SEMIS BUILDING FACILITY AT CAVS





SEMIs Launch!



Project Implementation

Alliance for a Green Revolution in Africa-AGRA

Total funding: 4,495,432.00 USD

Phase 1: 3 years (2010-2013), Phase 2-2014-2016

Institutions

University of Nairobi

PI: Prof. A.W. Mwang'ombe

Management: Prof. F. Olubayo

Daniel Wasonga – Project Manager, Florence Kiwunja-Admin. Asst., Sylvester

Kimaiyo – Factory Manager

Francis Maina, Caroline Ndumi, B. Kirangu - Field Assts

CIMMYT:

Dr. John
MacRobert
(Author-Seed
Business Mgt In
Africa)

KEPHIS:

DR. Esther
Kimani – Ag.
Director KEPHIS
Mr. Simeon
Kibet

KALRO:

Dr. Teresio
Riungu and
Dr. Lawrence
Ragwa

Consultants

Aline O'Connor
Funk
Paul Seaward
Paul Okete

ISU

Dr. Misra
Dr. Y. Shyy
Dr. Joe Cortes
Dr. Mike Stahr

SEED ENTERPRISE MANAGEMENT INSTITUTE (SEMIs)

Overall Goal

- Eradication of food and nutrition insecurity through capacity building of seed actors .
 - quality seed
 - affordable seed

Objectives:

1. To produce seed production and marketing management expertise in SSA region
2. To train seed industry practitioners on the best practices to efficiently produce adequate high quality seed for farmers.



3.To enhance production of seed of improved varieties for the SSA

- Efficient production
- Marketing
- Good distribution

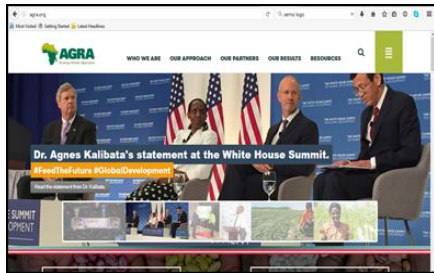
4. To strengthen the capacity of the SSA region to train on seed production and marketing management strategies

- Enhanced technology

5.To develop a regional capacity to facilitate information sharing on seed issues and related disciplines in SSA.

Growing the Seed Industry in Africa

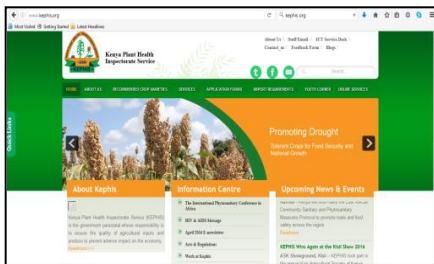
SEMI's PARTNERSHIPS UNDER PHASE I



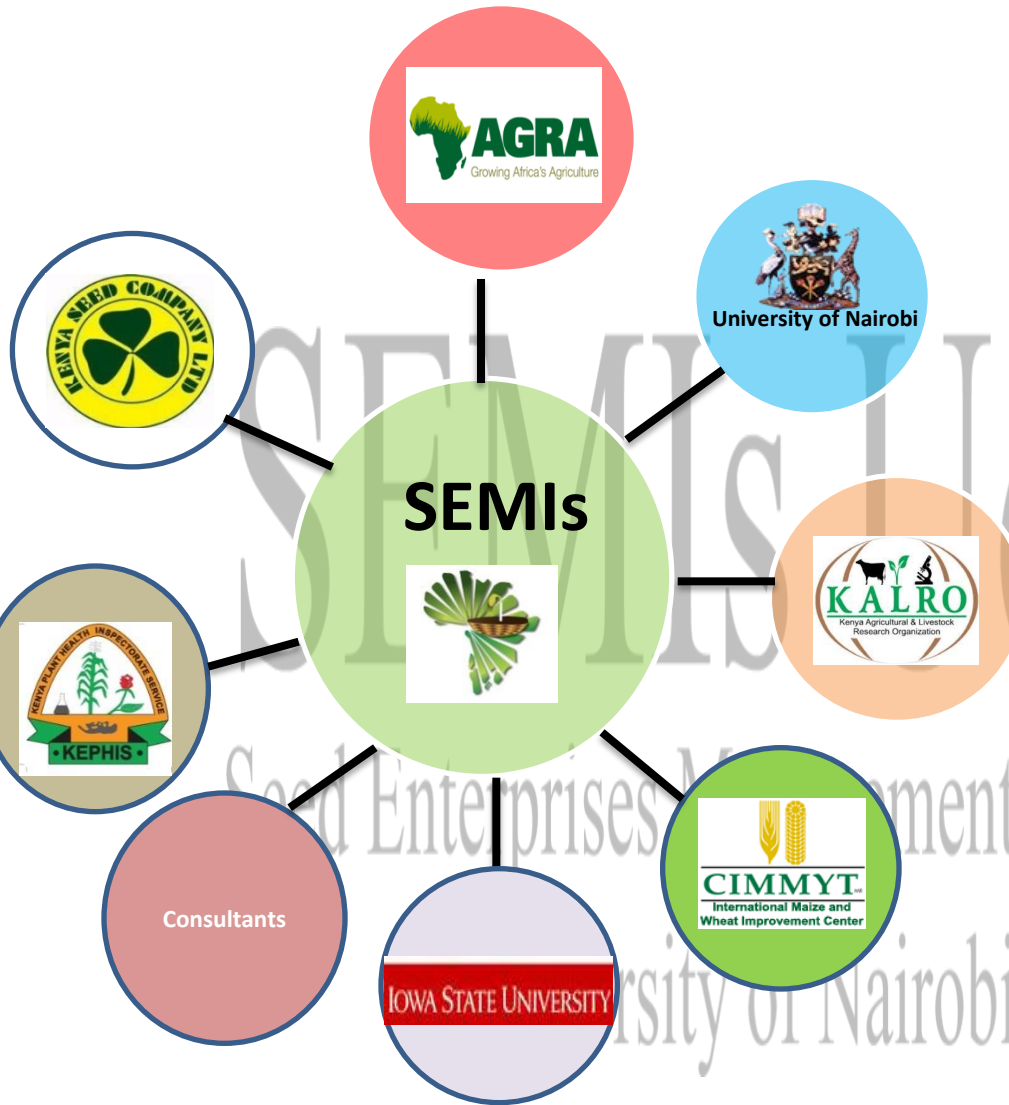
agra.org



kenyaseed.com



kephis.org



uonbi.ac.ke



kalro.org



cimmyt.org



lastate.edu

GROWING THE SEED INDUSTRY IN AFRICA

SEMIs IN AFRICA

MALI

Year	2010	2011	2012	2013	2014	2015	Total
Personnel Trained	8	3	8	2	1	10	32
Seed companies Trained	4	2	3	1	1	4	15



NIGER

Year	2010	2011	2012	2013	2014	2015	Total
Personnel Trained	8	15	2	1	13	14	53
Seed companies Trained	4	4	1	1	4	3	17



SOUTH SUDAN

Year	2010	2011	2012	2013	2014	2015	Total
Personnel Trained	0	0	10	4	10	22	46
Seed companies Trained	0	0	3	3	7	5	18



BURKINA FASO

Year	2010	2011	2012	2013	2014	2015	Total
Personnel Trained	5	4	9	3	7	17	45
Seed companies Trained	3	2	3	3	3	3	17



SENEGAL

Year	2010	2011	2012	2013	2014	2015	Total
Personnel Trained	0	0	0	0	2	0	2
Seed companies Trained	0	0	0	0	1	0	1



GUINEA

Year	2010	2011	2012	2013	2014	2015	Total
Personnel Trained	0	0	4	0	0	0	4
Seed companies Trained	0	0	1	0	0	0	1



SIERRA LEONE

Year	2010	2011	2012	2013	2014	2015	Total
Personnel Trained	0	10	11	2	8	0	31
Seed companies Trained	0	3	2	1	4	0	10



LIBERIA

Year	2010	2011	2012	2013	2014	2015	Total
Personnel Trained	0	10	6	1	0	3	20
Seed companies Trained	0	2	2	1	0	2	7



GHANA

Year	2010	2011	2012	2013	2014	2015	Total
Personnel Trained	16	12	24	8	14	14	88
Seed companies Trained	7	3	7	6	7	5	35



NIGERIA

Year	2010	2011	2012	2013	2014	2015	Total
Personnel Trained	23	4	8	12	9	21	77
Seed companies Trained	8	3	3	5	3	5	27



CAMEROON

Year	2010	2011	2012	2013	2014	2015	Total
Personnel Trained	0	0	2	0	0	0	2
Seed companies Trained	0	0	1	0	0	0	1



DRC CONGO

Year	2010	2011	2012	2013	2014	2015	Total
Personnel Trained	0	0	0	0	0	12	12
Seed companies Trained	0	0	0	0	0	5	5



ETHIOPIA

Year	2010	2011	2012	2013	2014	2015	Total
Personnel Trained	14	17	4	4	13	13	65
Seed companies Trained	5	4	1	3	8	6	27



UGANDA

Year	2010	2011	2012	2013	2014	2015	Total
Personnel Trained	17	9	9	2	16	15	68
Seed companies Trained	7	3	2	1	7	4	24



KENYA

Year	2010	2011	2012	2013	2014	2015	Total
Personnel Trained	19	4	1	0	9	4	37
Seed companies Trained	6	3	1	0	6	4	20



TANZANIA

Year	2010	2011	2012	2013	2014	2015	Total
Personnel Trained	17	23	10	12	26	12	100
Seed companies Trained	7	5	2	5	8	5	32



RWANDA

Year	2010	2011	2012	2013	2014	2015	Total
Personnel Trained	6	5	5	1	5	6	28
Seed companies Trained	2	1	1	1	4	1	10



MALAWI

Year	2010	2011	2012	2013	2014	2015	Total
Personnel Trained	12	7	14	0	4	13	50
Seed companies Trained	5	2	5	0	4	4	20



ZAMBIA

Year	2010	2011	2012	2013	2014	2015	Total
Personnel Trained	17	5	6	0	3	1	32
Seed companies Trained	4	1	2	0	2	1	10



MOZAMBIQUE

Year	2010	2011	2012	2013	2014	2015	Total
Personnel Trained	10	4	14	0	2	12	42
Seed companies Trained	5	1	4	0	2	4	16



ZIMBABWE

Year	2010	2011	2012	2013	2014	2015	Total
Personnel Trained	0	0	1	0	1	0	2
Seed companies Trained	0	0	1	0	1	0	2



21 COUNTRIES HAVE BENEFITTED FROM TRAINING AT SEMIs

SEMIs COURSES AT UON

Short term courses

- I. Seed Production
- II. Seed drying processing and storage
- III. Seed Marketing
- IV. Seed Business Mgt.
- V. Seed Quality Assurance Management and Control Processes
- VI. Field Pests and Disease Diagnostics in Seed Crops
- VII. National Plant Protection Organizations (NPPO)

Long Term courses

Curriculum already in place for:

- I. Certificate-Seed Technology and Business
- II. Diploma -Seed Technology and Business
- III. Post-graduate Diploma-Seed Technology and Business
- IV. MSc.-Seed Technology and Business Management.

- Over 15 students currently enrolled for MSc. Seed Technology and Business Mngt.



KEPHIS LANET

**Lecture and
Practical Teaching
sessions**



TISSUE CULTURE LAB



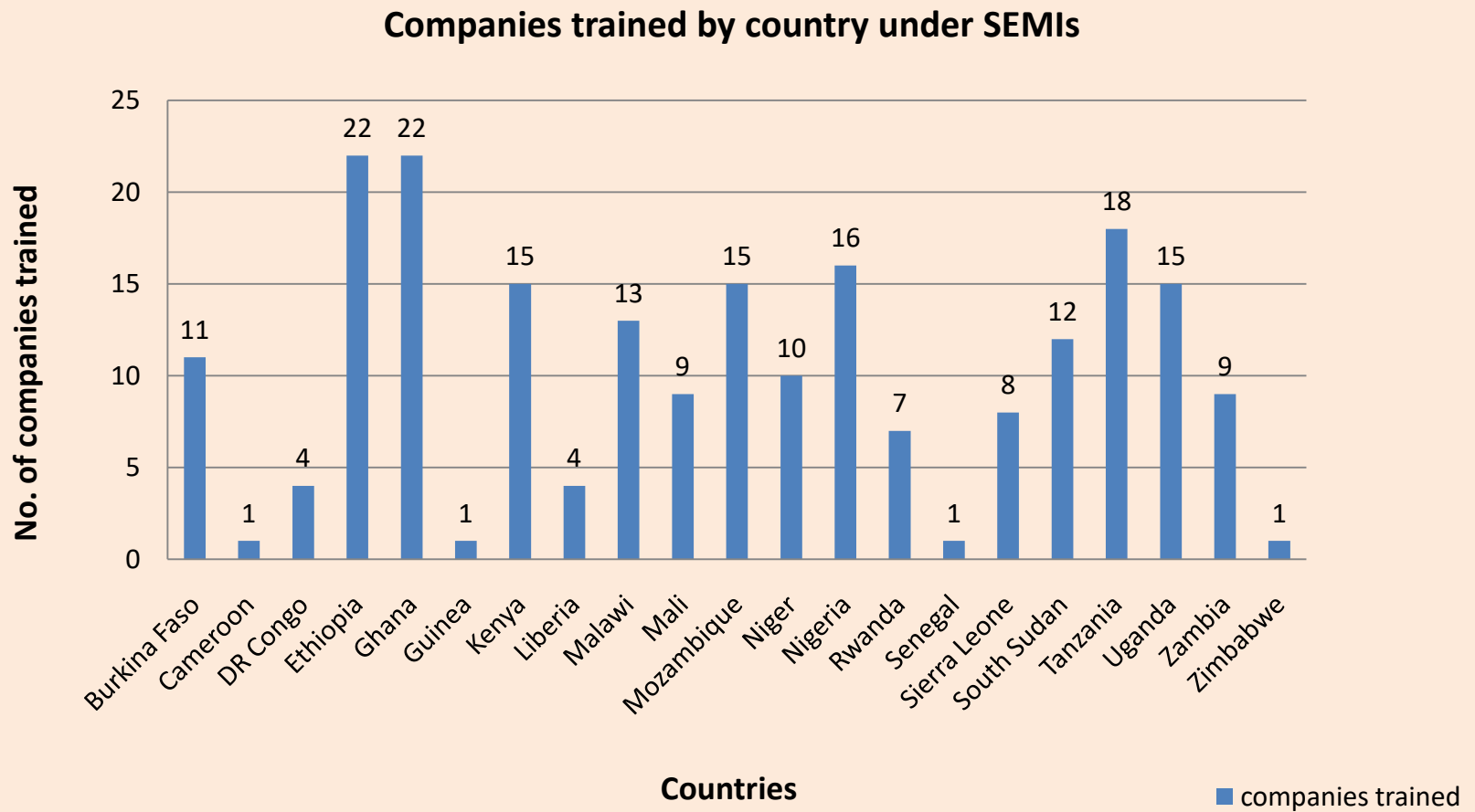
SEMI'S FACTORY

SUMMARY OF TRAINED PERSONNEL IN BY COURSE AT SEMIs IN PHASE I AND II

Course	Phase I (2010 -2013)					Phase II (2014 -2016)			Phase III
	2010	2011	2012	2013	Total Per Course	2014	2015	Total Per Course	2017
Crop Seed Production	29	27	30	0	86	23	26	49	
Seed Drying Processing and Storage	31	28	30	0	89	23	25	48	
Seed Business Management	29	26	29	25	109	19	30	49	
Seed Marketing	28	25	30	27	110	20	31	51	
Seed Legislation and Accreditation	25	0	0	0	25	0	0	0	
Seed Quality Assurance Management and Control Process	30	26	29	0	85	19	30	49	
NPPOs	0	0	0	0	0	21	23	44	19
Field Pests and Disease Diagnostics in Seed Crops	0	0	0	0	0	18	24	42	
Total (Yearly)	172	132	148	52	504	143	219	332	

Total Trained = 855

SEED COMPANIES TRAINED AT SEMIs



❖ Total of 214 seed companies in SSA have their personnel trained at SEMIs

SEMI's SEED PROCESSING FACTORY



Seed processing line



Packing on progress



Factory building



Corn sheller



Processed seed in warehouse



Collection of processed seed

- Factory machines comprise of air-screen cleaner, gravity separator, seed coating machine and packaging machine.
- The factory has a processing capacity 5t/hr.
- Service provision for smaller seed companies on contract agreement.
- **480 metric tons** of seeds processed so far.

Provision of foundation seed

“Seed companies all over Africa indicate foundation seed availability and access as a major contributor to low seed production”

Varieties:

- Meizi mbili
- Kenya Wonder
- Kenya Red Kidney
- Kabete Super
- Kenya Sugar Bean
- Super Rosecocco

- White label seed produced at SEMIs.

- Seed varieties are licensed to registered Seed companies e.g Kenya Seed Company and Elgon Kenya Ltd for Multiplication and sale.

Year	Tons of bean seed produced
2014	4.3
2015	3.5



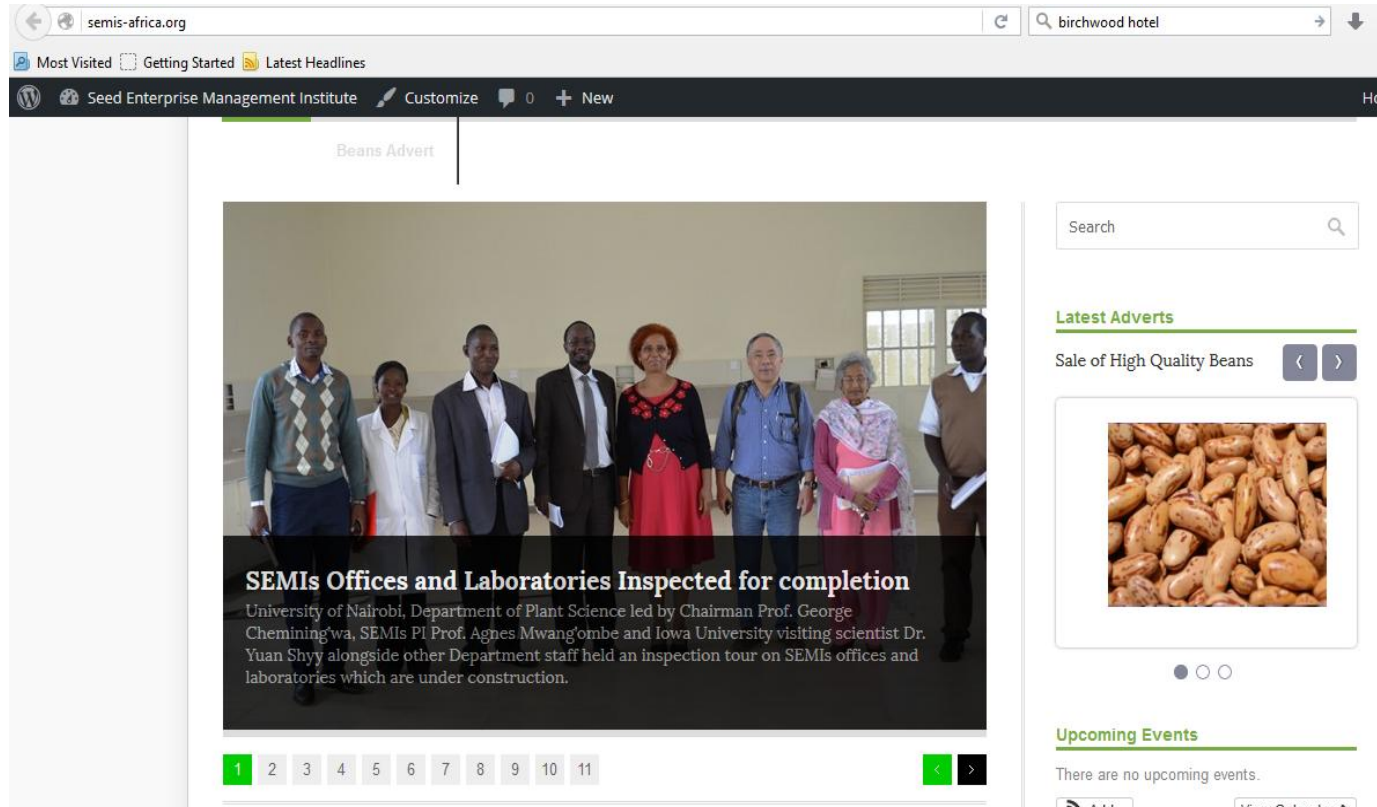
Participation in National and Regional Workshops and Meetings on Seed Issues

Exhibitions/conferences	Year
FARA Meeting	2011
KARI congress	2012
STAK congress	2013
ASK Show	2014
AGRF	2015
AFSTA Congress	2016



SEMIs Website:

www.semis-africa.org



The screenshot displays the SEMIs Africa website interface. The browser address bar shows 'semis-africa.org' and a search bar contains 'birchwood hotel'. The website header includes navigation links for 'Most Visited', 'Getting Started', and 'Latest Headlines', along with a WordPress logo and the text 'Seed Enterprise Management Institute'. A sidebar on the left is titled 'Beans Advert'. The main content area features a large photograph of a group of people, with the headline 'SEMIs Offices and Laboratories Inspected for completion'. Below the photo, the text reads: 'University of Nairobi, Department of Plant Science led by Chairman Prof. George Chemining'wa, SEMIs PI Prof. Agnes Mwang'ombe and Iowa University visiting scientist Dr. Yuan Shyy alongside other Department staff held an inspection tour on SEMIs offices and laboratories which are under construction.' A pagination bar at the bottom of the article shows numbers 1 through 11, with '1' highlighted. The right sidebar contains a search box, a 'Latest Adverts' section with a 'Sale of High Quality Beans' advertisement featuring an image of beans, and an 'Upcoming Events' section stating 'There are no upcoming events.' with a 'View Calendar' link.

- Sharing information on seed issues, current happenings in the seed industry in Africa
- Staying in touch with SEMIs participants
- Online registration of Students

Rewarding our Participants with certificates at the end of each course motivates them to be better “seed men”



Thank You!

