



UNIVERSITY OF NAIROBI



GROWING THE SEED INDUSTRY THROUGH CAPACITY BUILDING – SEMIS OVERVIEW

SEED Quality Assurance

24th April-6th May 2017

Seed Enterprises Management Institute

University of Nairobi

Prof. Agnes Mwang'ombe, EBS

SEMIS BUILDING FACILITY AT CAVS





SEMIs Launch!





University of Nairobi

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

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.



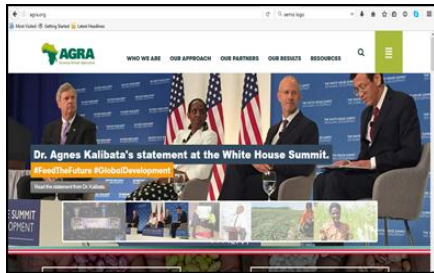
- 3.To enhance production of seed of improved varieties for the SSA
 - Efficient production
 - Marketing
 - Good distribution

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

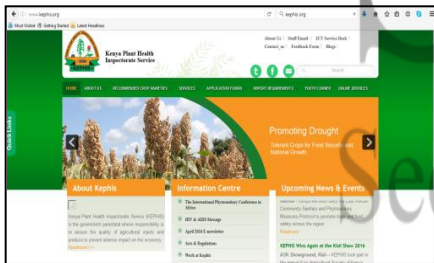
SEMI'S PARTNERSHIPS UNDER PHASE I



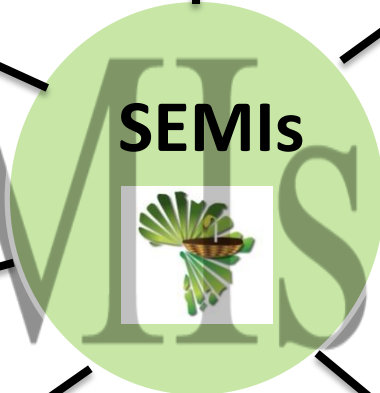
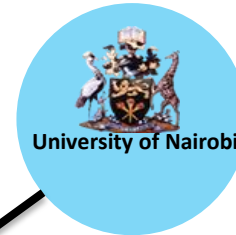
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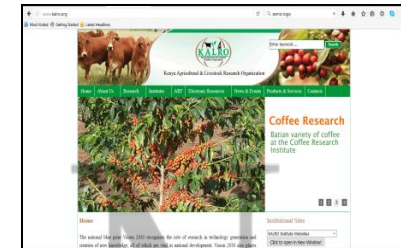
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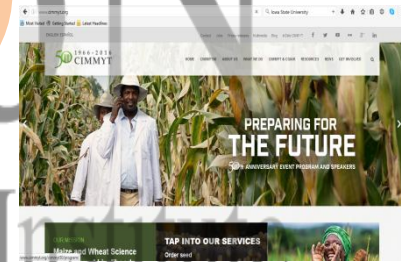
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uonbi.ac.ke



kalro.org



cimmyt.org



lastate.edu

GROWING THE SEED INDUSTRY IN AFRICA

SEMI_s 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



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



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



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



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



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



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



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



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



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



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



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



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



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



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



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.

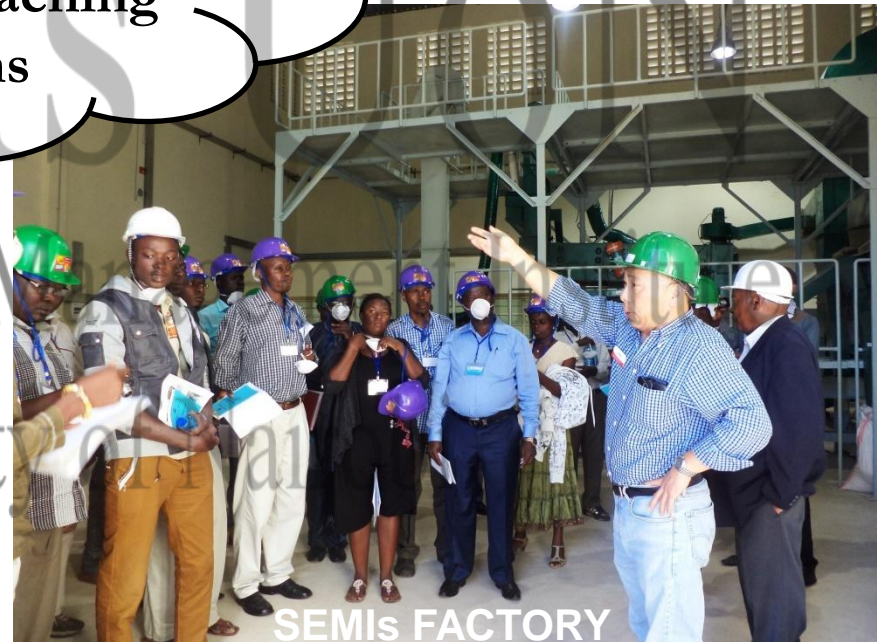


KEPHIS LANET

**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

Courses	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	20
Seed Marketing	28	25	30	27	110	20	31	51	20
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	
NNPOs	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	59

Total Trained =925

UNIVERSITY OF NAIROBI SEED ENTERPRISE MANAGEMENT INSTITUTE (SEMIs)



SEED BUSINESS MANAGEMENT-LIST OF PARTICIPANTS

Name	Country	Seed Company
Abukari Abdulai	Ghana	Heritage Seed Co Ltd
Oxford Korsi Agboli	Ghana	M&B seeds And Agricultural Sevices Ltd
Eugenia Oduro	Ghana	Legacy Crop Improvement Center
Ibitoye Oyewale Olumide	Nigeria	Premier Seed
Okolo Samson Ayegba	Nigeria	Value Seeds Limited

SEED BUSINESS MANAGEMENT-LIST OF PARTICIPANTS

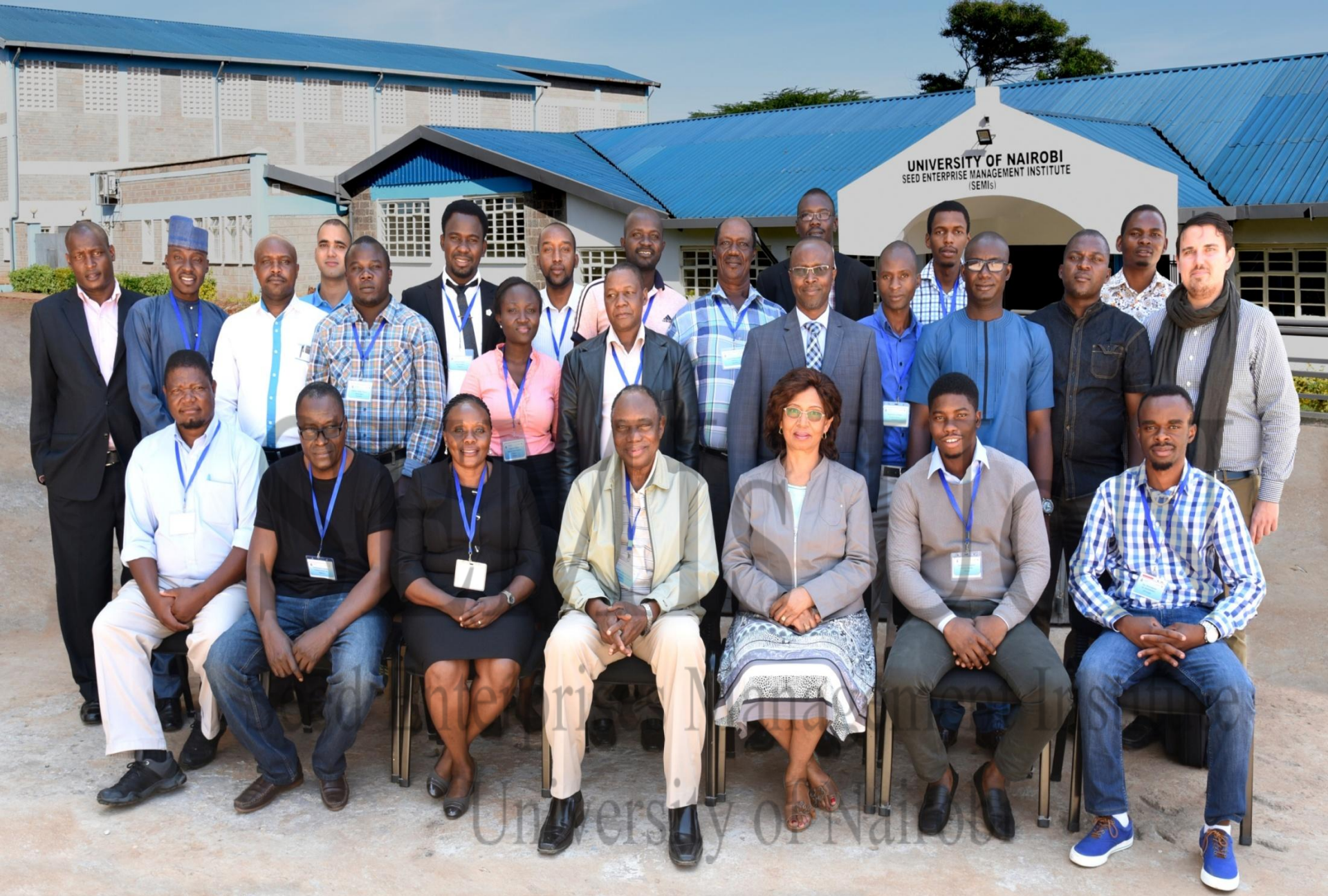
Name	Country	Seed Company
Isah Rablu Umar	Nigeria	Maina Seeds Ltd
Samaila Abdullahi Dansadau	Nigeria	Deep-Rooted Seed Ltd
Amb Jaiyeola . J.Lewu	Nigeria	Evergreen International Ltd.
Abdulsalam Lamido	Nigeria	Tirendin Seeds Ltd.
Yves Mbusa Kamavu	DRC	APROMA DR Congo

SEED BUSINESS MANAGEMENT-LIST OF PARTICIPANTS

Name	Country	Seed Company
Evans Kirui	Kenya	Dryland
Bruno Bakasambe	Uganda	Kinoni Seed Limited
Masagazi Allen	Uganda	Pearl Seeds Ltd
Charu Chandra	South Sudan	Global Agriculture Innovation And Solutions (GAIS)
Stevin Stafford Kamwendo	Malawi	Funwe Seed Limited

SEED BUSINESS MANAGEMENT-LIST OF PARTICIPANTS

Name	Country	Seed Company
Bonfansio A.Chiziwa	Malawi	Global Seeds Company
Ibrahim R.M. Benesi	Malawi	Multi Seeds Company Limited(MUSECO)
Hassan Rajab Kinemo	Tanzania	Meru Agro
Emmanuel Angomwile	Zambia	Stewards Globe /Afriseed
Elie Musanganya	DRC	Est. BUHENDWA



Seed Business Management Course

5th - 12th March 2017

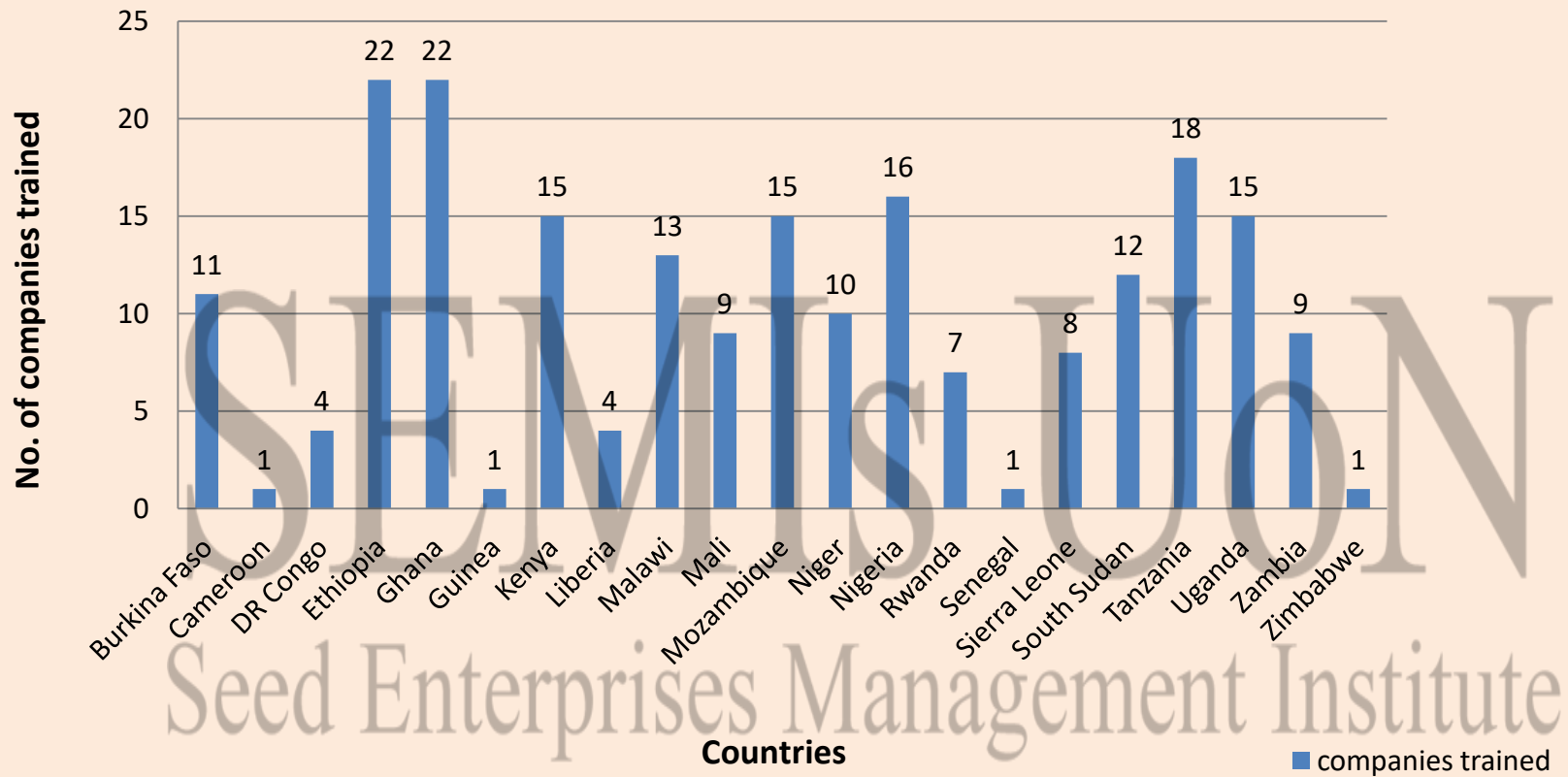


Seed Marketing Course

12th - 19th March 2017

SEED COMPANIES TRAINED AT SEMIs

Companies trained by country under SEMIs-Phase 1 & 2



❖ 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
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2014	4.3
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2015	3.5
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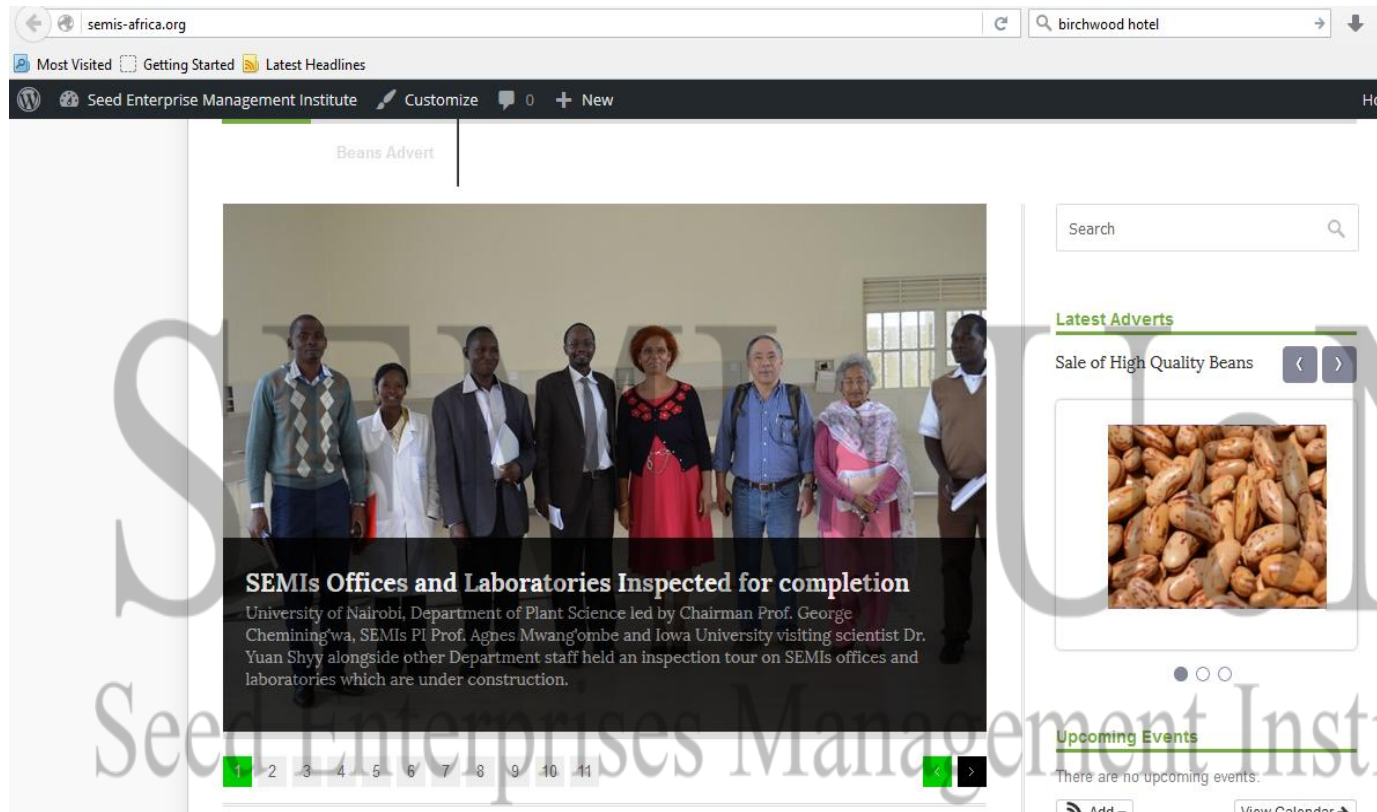
Participation in National and Regional Workshops and Meetings on Seed Issues

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 shows the SEMI Africa website interface. The browser address bar displays 'semis-africa.org' and a search bar contains 'birchwood hotel'. The navigation menu includes 'Most Visited', 'Getting Started', and 'Latest Headlines'. The main content area features a large image of a group of people, with the headline 'SEMIs Offices and Laboratories Inspected for completion'. Below the image, the text reads: 'University of Nairobi, Department of Plant Science led by Chairman Prof. George Chemining'wa, SEMI PI Prof. Agnes Mwang'ombe and Iowa University visiting scientist Dr. Yuan Shyy alongside other Department staff held an inspection tour on SEMI's offices and laboratories which are under construction.' The sidebar on the right 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.' The footer of the website includes the text 'Seed Enterprises Management Institute'.

- Sharing information on seed issues, current happenings in the seed industry in Africa
- Staying in touch with SEMI 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!

