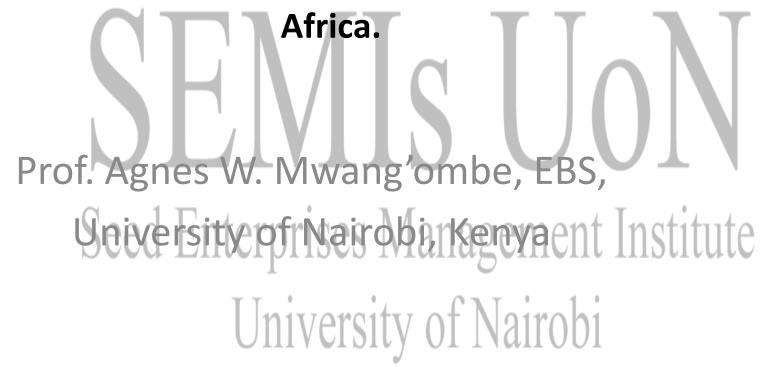
Establishment of Seed Enterprise Management Institute (SEMIs) in the University of Nairobi, Kenya to facilitate skills Development and Enhancement of private seed sector to support quality seed production for increased food security and poverty alleviation in Sub Saharan











GROWING THE SEED INDUSTRY THROUGH CAPACITY BUILDING – SEMIS OVERVIEW

Field Pests and Disease Diagnostics in Seed Crops

Seed E4theFebruary\2018agement Institute

Prof. Agnes W. Mwang'ombe, EBS

SEMIS BUILDING FACILITY AT CAVS







Project Implementation

Alliance for a Green Revolution in Africa-AGRA

Phase 1: 3 years (2010-2013), Phase I-2014-2016; Phase III-20162018

Institutions

University of Nairobi

PI: Prof. A.W. Mwang'ombe

Team Member: Prof. F. Olubayo

Florence Kiwunja-Admin. Asst., Sylvester Kimaiyo — Factory Manager

Ben Kimbio, S. Wenyuli, B. Kirangu, Linah Mwakio

CIMMYT:

Dr. J.MacRobert (Author-Seed Business Mgt In

KEPHIS:

DR. E. Kimani –.
Director KEPHIS
Mr. S.Kibet

KALRO:

Dr. T.Riungu and Dr. L. ^{A. W. M}Ragwa^{be}

Consultants

Aline O'Connor, Paul Seaward, Paul Okete, Dillip

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:

- 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

SEMIs Growing the Seed Industry in Africa disciplines in SSA.

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

SEMIS PARTNERSHIPS UNDER PHASE I



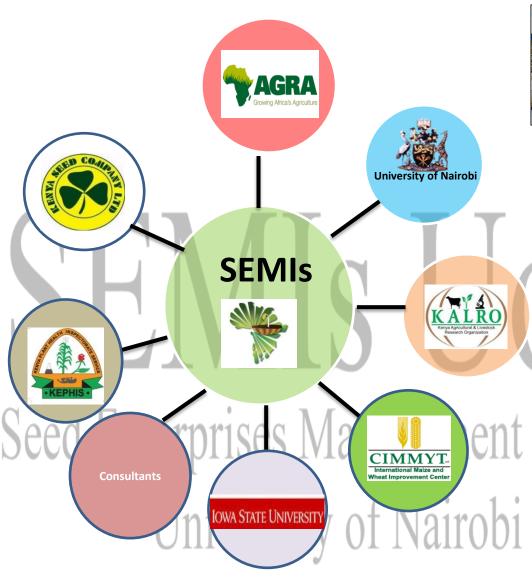
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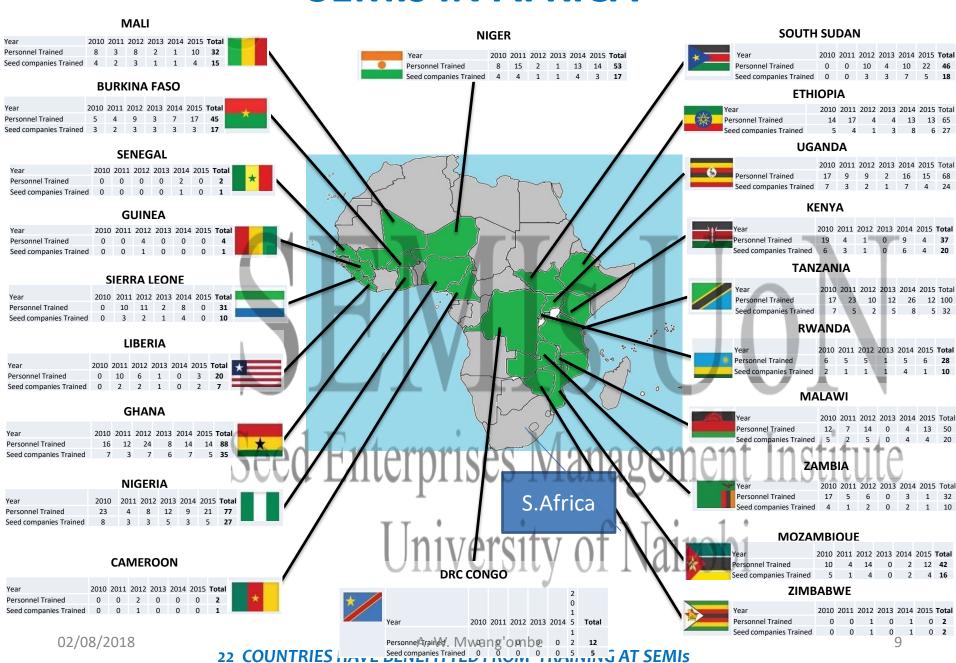






lastate.edu

SEMIS IN AFRICA



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 AssuranceManagement and ControlProcesses
- 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.

The MSc. Seed Technology and Business Management program is currently in its 5th year since inception in 2014



NATIONAL PLANT PROTECTION ORGANIZATIONS (NPPOS) AND SEED QUALITY REGULATORS COURSE: 16th – 21st January, 2017

NPPO participants engaged in group discussions

Prof. J. Muthomi guiding participants in a laboratory practical exercise





SEED BUSINESS MANAGEMENT COURSE: 5TH – 12TH MARCH 2017



Seed Crop Production(SCP): 29th May -3rd June 2017

SCP photo with Dr. J. DeVries, AGRA

Field demos during SCP course





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

| | | Phase | I (2010 | -201 | 3) | Phase | e II (201 | L4 -2016) | Phase III |
|--|------|-------|----------|---------|------------------------|-------|-----------|---------------------|-------------|
| Course | 2010 | 2011 | 2012 | 2013 | Total Per Course | 2014 | 2015 | Total Per Course | 2017 |
| Crop Seed Production | 29 | 27 | 30 | 0 | 86 | 23 | 26 | 49 | 19 |
| 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 | |
| Seed Legislation and Accreditation | 25 | 0 | 0 | 0 | 25 | 0 | 0 | 0 | 20 |
| Seed Quality Assurance Management and Control Process | 30 | 26 | 29 | ses | 85 | 19 | 30 | 49 | Institute |
| NPPOs | 0 | 0 | 0 | 0 | 0 | 21 | 23 | 44 | 1115019400 |
| Field Pests and Disease Diagnostics in Seed Crops | 0 | 0 | | e | Ilo | 18 | 24 | 1(42)1 | |
| Total (Yearly) | 172 | 132 | 148 | 52 | 504 | 143 | 189 | 332 | 97 |
| 02/08/2018 | | | A. W. IV | lwang'c | mbe | | Tota | l Trained = | -933 |

SEED BUSINESS MANAGEMENT-LIST OF PARTICIPANTS-February 2017

| Name | Country | Seed Company |
|-------------------------|--------------------|--------------------------|
| | | Heritage Seed Co Ltd |
| Abukari Abdulai | Ghana | |
| | | M&B seeds And |
| Oxford Korsi Agboli | Ghana | Agricultural Sevices Ltd |
| | | Legacy Crop |
| | | Improvement Center |
| Eugenia Oduro | Ghana | |
| Ibitove Ovewale Olumide | Enterprises Mana | Premier Seed |
| | <u> </u> | |
| Okolo Samson Avegha | Nigeria Versity of | Value Seeds Limited |
| Okolo Samson Ayegba | Nigeria | 1 (011 0 0 1 |

SEED BUSINESS MANAGEMENT-LIST OF PARTICIPANTS

| Name | Country | Seed Company |
|--|-------------|-------------------------------------|
| Isah Rablu Umar | Nigeria | Maina Seeds Ltd |
| Samaila Abdullahi Dansadau | | Deep-Rooted Seed Ltd |
| Amb Jaiyeola . | | Evergreen International Ltd. |
| Abdulsalam Lamido Yves Mbusa Kamavu | Nigeria DRC | Tirendin Seeds Ltd. 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 eed] | South Sudans Mana | Global Agriculture Innovation And Solutions (GAIS) |
| Stevin Stafford Kamwendo | Malawi OI | 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 Lnterprises Mana | Meru Agro gement Institute |
| Emmanuel Angomwile | Zambia Control | Stewards Globe /Afriseed |
| Elie Musanganya | DRC | Est. BUHENDWA |

| Company | Name |
|-------------------------|--|
| Pearl Seeds Limited | Atine Denis Ongom |
| Naseco 1996 LTD | Steven Apangu Adrole |
| Aminata Seed Production | Anthony Sadala gement Institute |
| Suba Agro University of | James Chacha Muya |
| Meru agro-Tours and | Gwamaka Mlekwa |
| | Pearl Seeds Limited Naseco 1996 LTD Aminata Seed Production Suba Agro University of |

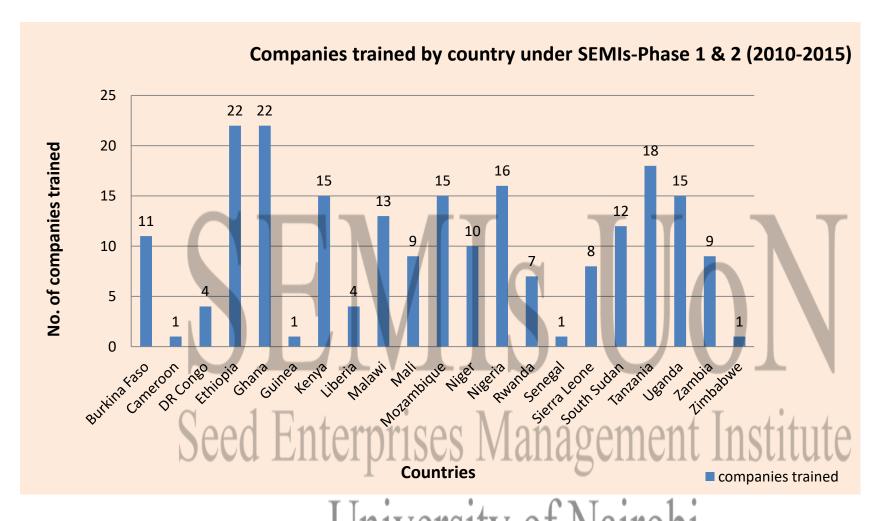
| Country | Company | Name |
|-------------|--------------------|----------------------|
| | | |
| Malawi | Peacock Seeds | Innocent Jumbe |
| | | T T 3 T |
| Zambia | Stewards | Request Mashebe |
| | Globe/Afriseed | |
| South Sudan | Global Agriculture | Mike Gaga Abe Lubari |
| ~ 1 | Innovation and | T 1 |
| Seed | Solutions (GAIS) | gement Institute |
| South Sudan | Green Horizon seed | Lukujo Lawrence |
| | company/ersity of | Morris Daniel |
| Rwanda | SOZO Seed Company | Jean Paul Gafigi |
| 02/08/2018 | A. W. Mwang'ombe | 21 |

| Country | Company | Name |
|---------------------|--------------------------------------|--------------------------|
| Rwanda | Ebenezer Mixed | Celestin Gashayija |
| | Farming and | |
| | Merchandised Ltd | TTTT |
| Ghana | Bruckner Farms | Judith Ahiagble |
| | | Ampoma |
| Ghana | Legacy Crop | Francis Yao Gankui |
| Seed | Improvement Centre (LCIC) | gement Institute |
| Ghana | Antika Seed Company | Lukman Ibn Bome Musah |
| Ghana 02/08/2018 | M & B Seed Company A. W. Mwang'ombe | Saviour Dzidzienyo |

| Country | Company | Name |
|------------|--------------------------------|---------------------------|
| Ghana | Pee Farms | Mohammed Issifu Pangabu |
| Ghana | Heritage Seeds Company limited | Haruna Abdulai Iddrisu |
| Ghana See | TT ' | St. 1. |
| Kenya | Dryland Seeds Limited | Eli Kirui |
| 02/08/2018 | A. W. Mwang'ombe | 23 |



SEED COMPANIES TRAINED AT SEMIS



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

NPPOs-Workshop-15-22.1.2017









SEMIS SEED PROCESSING FACTORY













- 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 in 2015.

Provision of foundation seed-CAVS

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





- 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 | J _{4.3} UUI |
| 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 |
| | SEED ENTERNA |







SEMIs Trainers of Trainers Workshop in Mbour, senegal-2016



Seed Marketing course-Certification function-18.3.2017

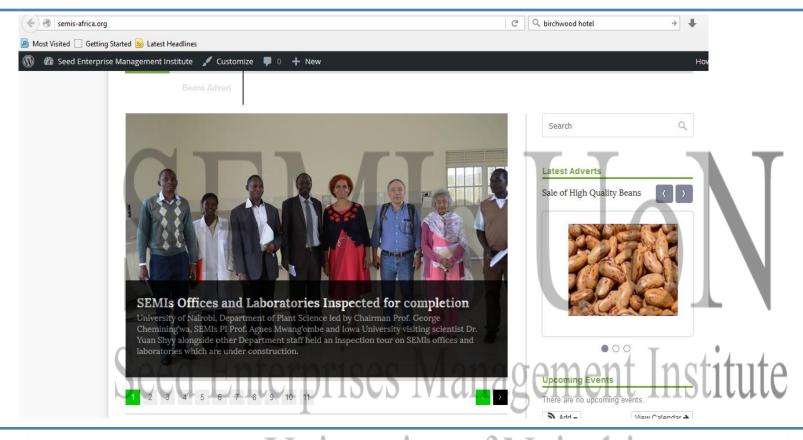


Rewarding our Participants with certificates at the end of each course motivates them to be better "seed men/Women"



SEMIs Website:

www.semis-africa.org



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