

20TH MEETING OF COMSATS COORDINATING COUNCIL

COUNCIL FOR SCIENTIFIC AND INDUSTRIAL RESEARCH (CSIR-GHANA)



Prof. Victor Agyeman Esq
Director-General

14-15 May 2017

Presentation outline:

1. **Introduction**
2. **Organizational structure**
3. **Staff Profile**
4. **Key performance Index**
5. **Budget**
6. **Awards**
7. **Research programmes (Publications)**
8. **Capacity building**
9. **New programmes**
10. **International collaborations**
11. **S &T cooperation requests**
12. **Conclusion**

Introduction

- **The Council for Scientific and Industrial Research (CSIR) is the foremost Scientific and Technological Institution in Ghana.**
- **It has 13 Research institutes located throughout Ghana in all the agro ecological zones.**
- **The current strategic re-orientation of the CSIR has resulted in remarkable improvement in the quality of research programmes and outputs.**

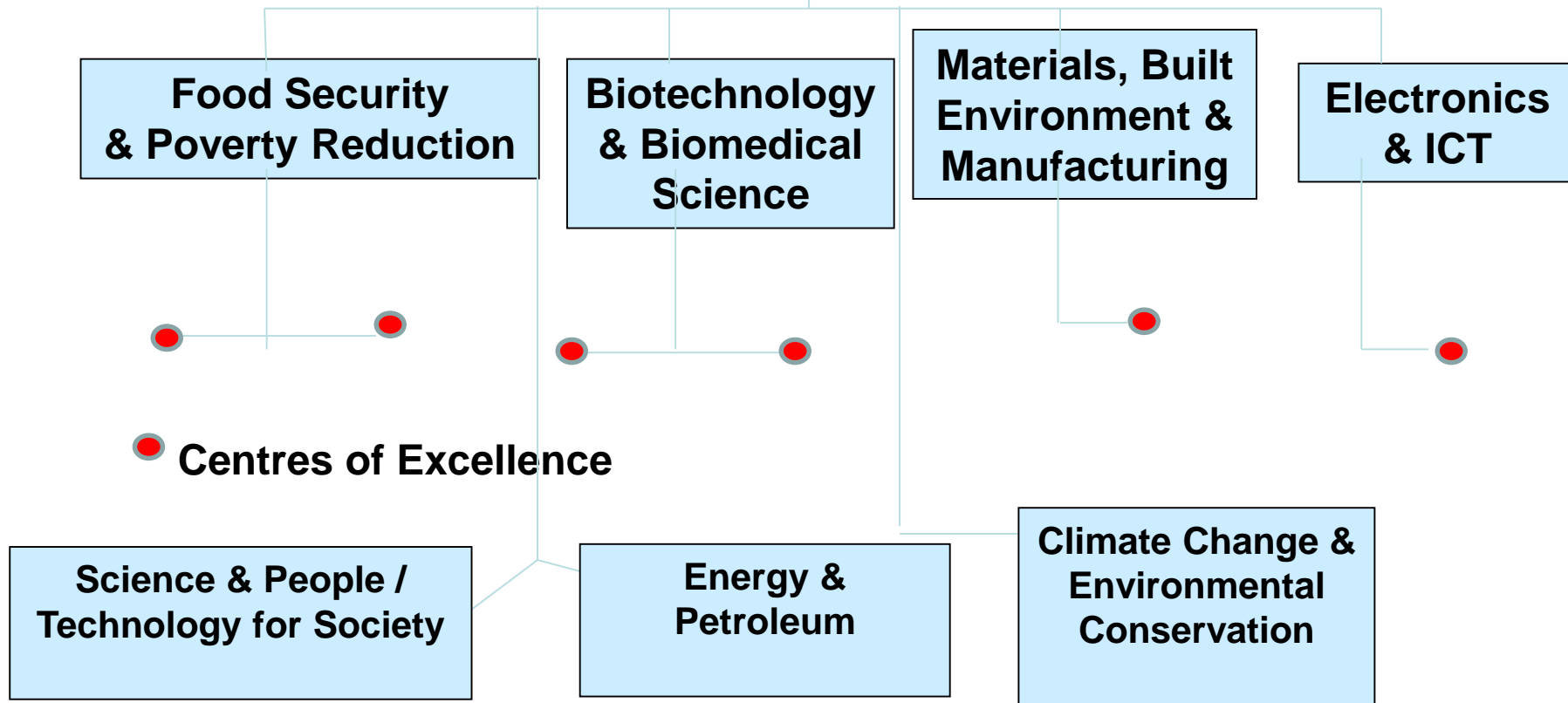
CSIR Nation-Wide Location



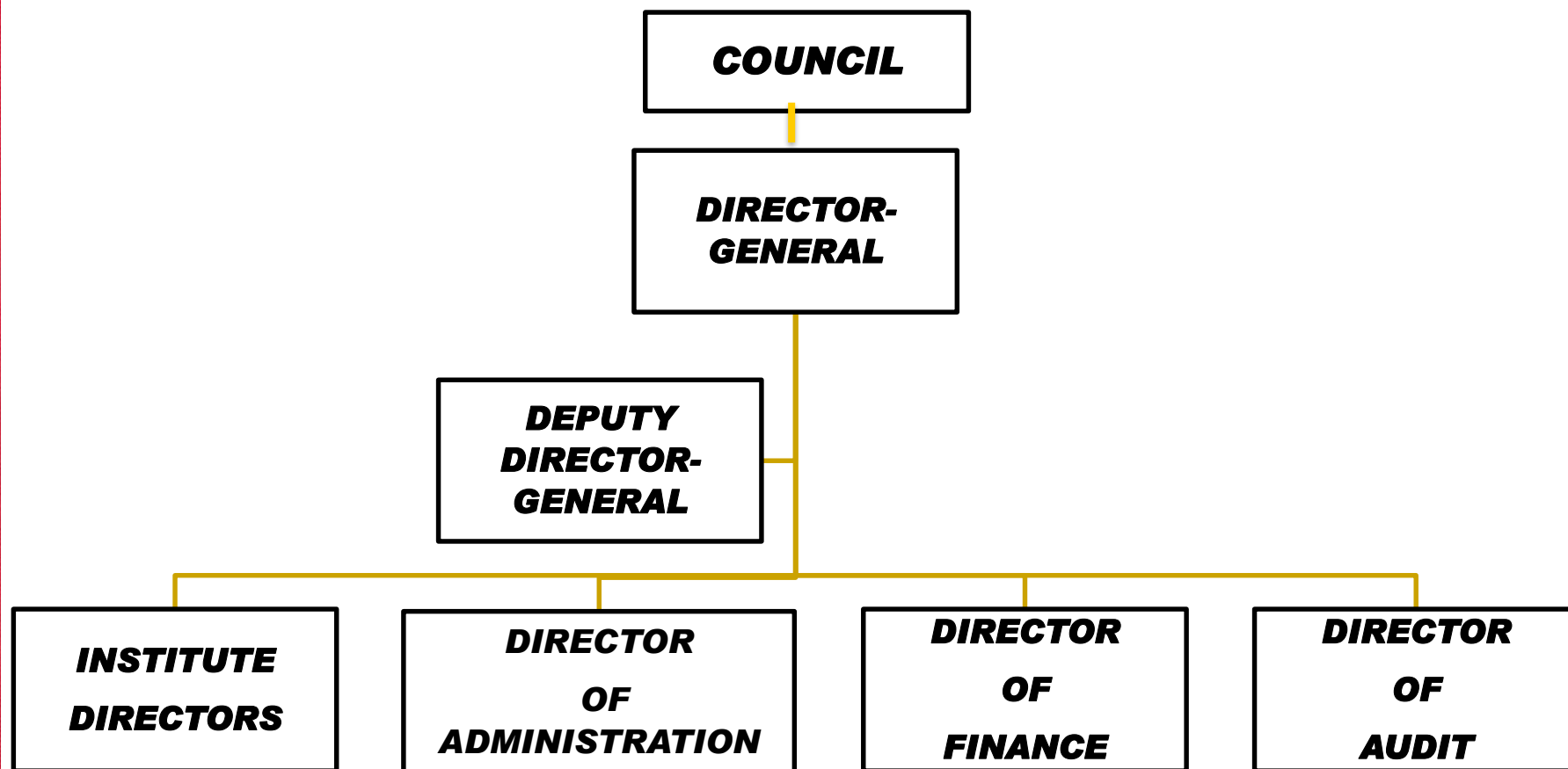
Introduction

- This has led to an improvement in technological development capacity within the Institutes
- Evidenced by the relatively high number of national and international awards received by scientists and institutions.
- CSIR is working within the framework of Seven (7) Corporate Research Thematic Areas namely:

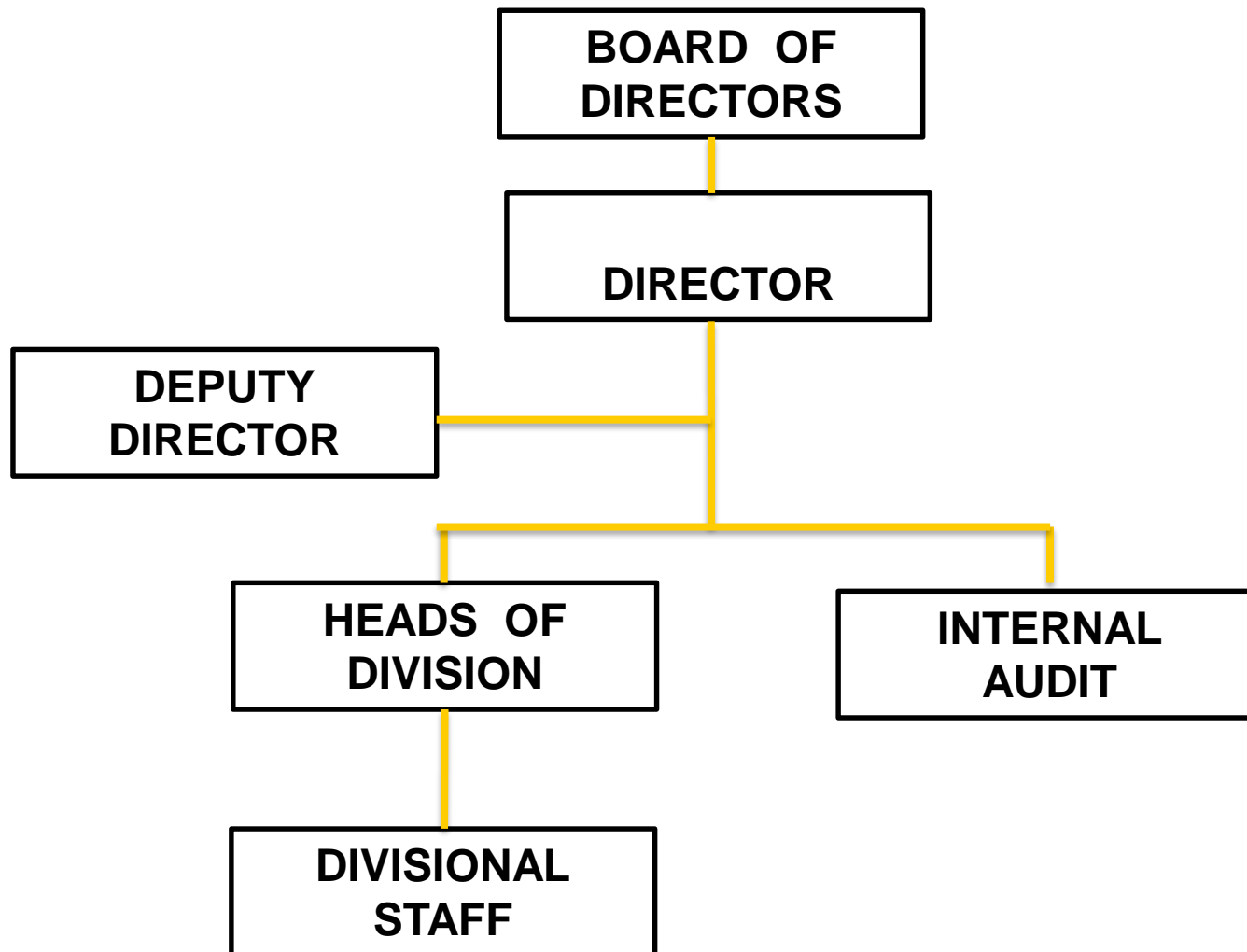
NEW CSIR RESEARCH PROGRAMMES



CSIR Organogram

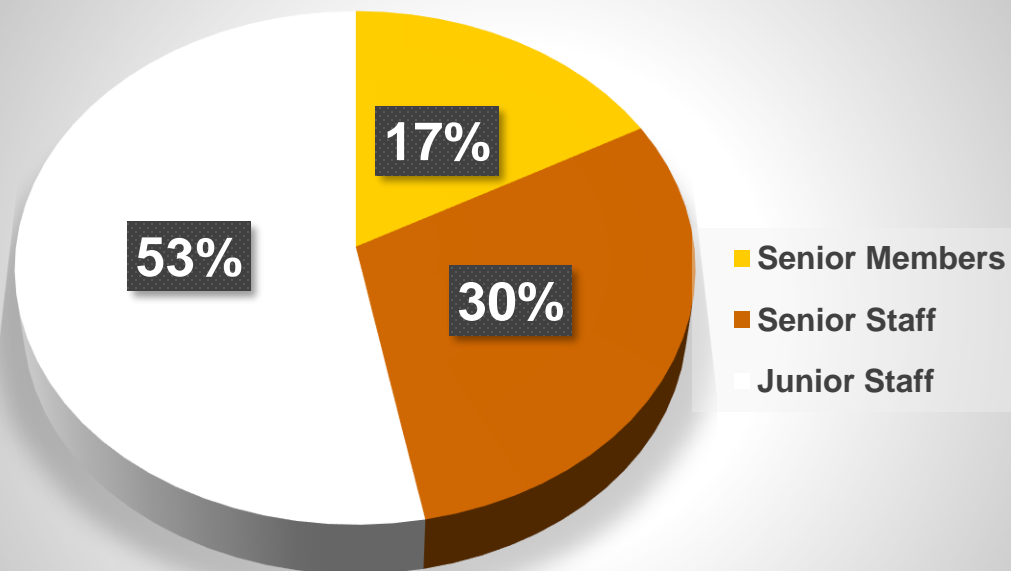


INSTITUTE-- Organogram



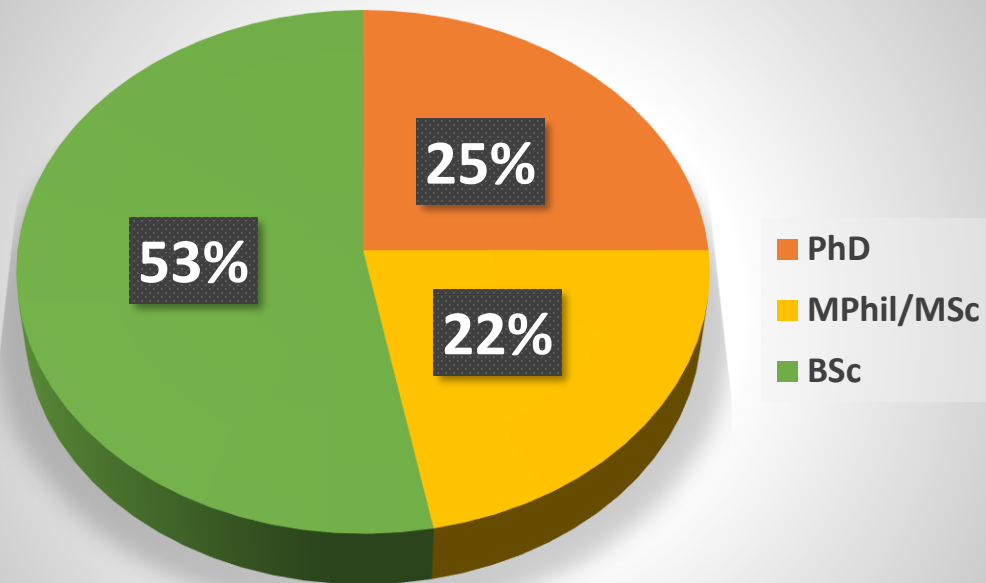
Staff Profile

Category	No.	%
Total Staff	3506	100
Senior Members	584	17%
Senior Staff	1057	30%
Junior Staff	1865	53%



Staff Qualification

Category	No.
PhD	285
MPhil/MSc	252
BSc	600
TOTAL	1137



Some Key Performance Indicators

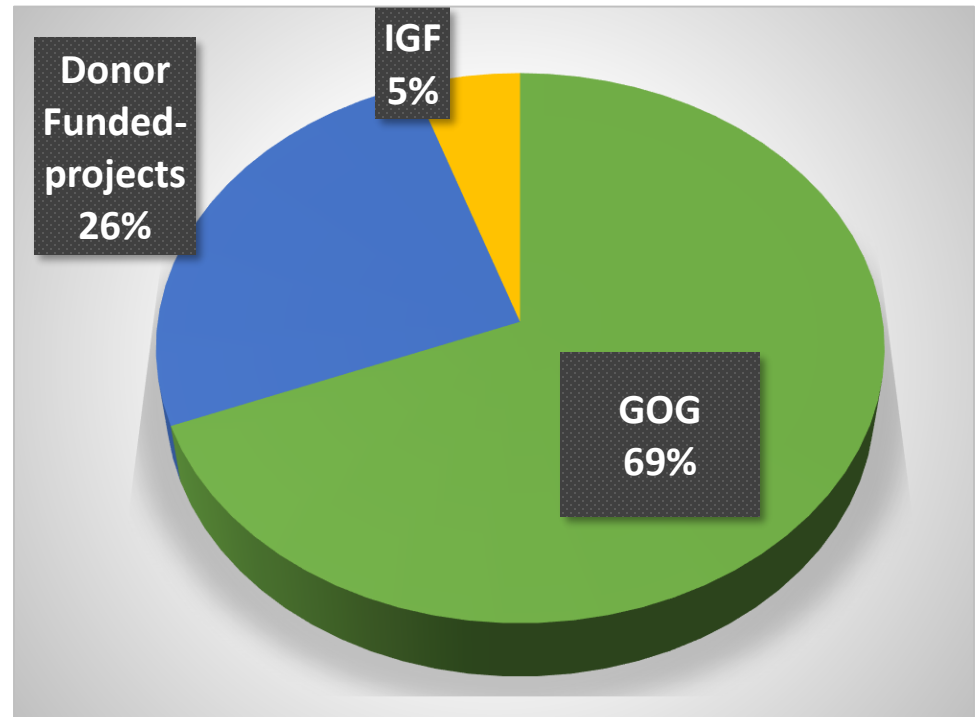
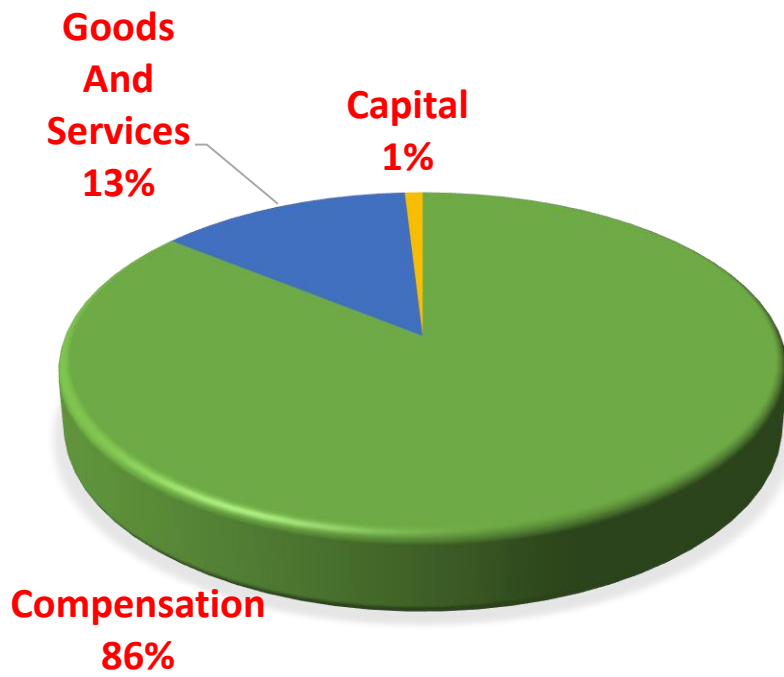
Category	No.
Publications	447
Patents	2
Copyright	161
Market Products	31

Capacity Building

Training			
	PhD	MPhil/MSc	BSc
	138	75	36

Budget

Item	Amount Released, \$m	
Compensation	23.201	
Goods And Services	3.575	
Capital	0.250	
Total	27.026	
Donor Funded-projects	10.110	
IGF	2.04	
TOTAL	12.150	



National Awards

- **2016 Best Agricultural Researcher** - CSIR-SARI led by DR. Francis Kusi
- **2016 Technology Impact Award**
- The CSIR was adjudged winner of the **Excellence in Product Innovation (Manufacturing) Award**".
- **2016 The Ghana Development Award** for Making Available Various Technologies and Locally Produced Products for use by Enterprises and Households across Ghana

STI Policy Interventions

- Presidential Advisory Council on STI
 - Mainstreaming of S&T into government Policies and programmes
- Creation of National Research Fund
 - Provide sustainable funding for Research and development
- Establishment of National Innovation Centre
 - Provide incubation facilities for young business entrepreneurs
 - Liaise with Business community for effective use of research results

CROPS IMPROVEMENT



- ❑ Varieties of crops spanning the Ghanaian staple spectrum:
 - Cereals: *Maize, Rice, Sorghum & Millet*
 - Grain Legumes: *Cowpeas, Peanuts, Soyabean, etc.*
- ❑ Good agricultural practices (GAPs) as component technologies to assure optimum production and productivity.

VALUE ADDITION TECHNOLOGY



- **CSIR-Food Research Institute** has array of agro-processing/value addition technology.
- A number of commercial convenience foods in the Ghanaian and external market patronize our technologies.

POZZOLANA CEMENT



CSIR-GRADUATE SCHOOL

- **CSIR Ghana has established a Graduate students.**
- **6 Campuses in Accra and Kumasi**
- **Academic work started in September 2016**
- **40 Pioneer students**
- **Target in 5 years - 400 graduate students**

Graduate School CSIR College of Science and Technology (CCST)

The seven (7) programmes offered are:

- ❑ MSc Climate Change and Integrated Natural Resources Management
- ❑ MPhil Climate Change and Integrated Natural Resources Management
- ❑ MPhil Soil Health and Environmental Resources Management
- ❑ MPhil Fisheries and Aquaculture
- ❑ MPhil Agro-Processing Technology & Bio-Sciences
- ❑ MPhil Plant Breeding & Biotechnology
- ❑ MPhil Industrial Animal Nutrition and Feed Production

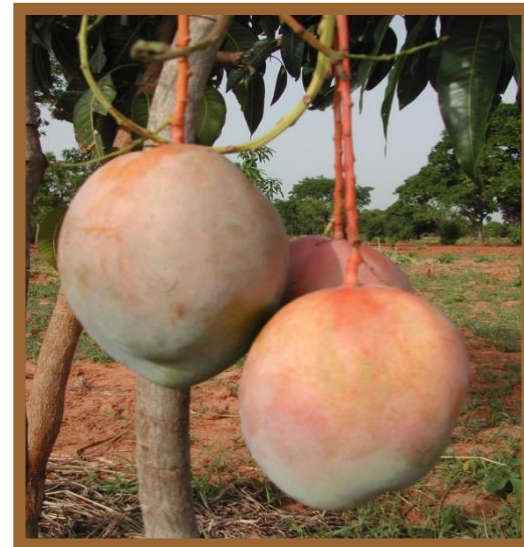


CSIR-GRADUATE SCHOOL

- ❑ 2 more programmes will be added next academic year and these are:
 - Transportation Planning and Engineering
 - Construction Engineering

International Collaboration

- **CSIR-NDRC of India on Ghana-Indian tomato project.**
- **CSIR/CORAF-WECARD/ECOWAS Project on Control of Mango Fruit Flies**
- **CSIR/EU HORIZON 2020 on Tropicsafe Project**
- **CSIR/IDRC (Canada) – Coconut lethal Yellowing Disease Project**



International Collaboration

- **CSIR/Iowa State University (US)**
– Integrated Soil Fertility Management
- **CSIR/Univ. of Illinois (US) - Soybean Improvement Programme**
- **CSIR/Oxford University (UK) – impacts of EL Nino on the Carbon Oxide of Tropical Forests**
- **CSIR/Burn University – Accreditation of Wood and Furniture Testing Laboratory**



International Collaboration

- **CSIR/TRL (UK) - AFCAP Project of Hazardous Sites and Recommendation of Remedial Measures**
- **CSIR-GH/CSIR-SA – ReCAP Project on Alternatives to Steep Slopes**
- **CSIR/Bloomberg (US) - Initiative for Global Road Safety**
- **CSIR/Johns Hopkins (US) - Rural Transport Diagnostics Survey**
- **CSIR/Univ. of Finland on CAAST-Net funded by EU**

Collaboration with International Research Institutions

- CSIR-Ghana has many collaborations with international research organizations house within its premises in Accra.
- These include:
 - International Water Management Institute (IWIMI)
 - Alliance for Green Revolution in Africa (AGRA)
 - Forum for Agriculture Research in Africa (FARA)
 - Center for Agriculture and Biosciences International (CABI)
 - West African Science Service Center on Climate Change and Adapted Land Use (WASCAL)
 - International Food Policy Research Institute (IFPRI)
 - Brazilian Agricultural Research Cooperation (EMBRAPA).

INTERNATIONAL PARTNERS


Republic of Ghana
**PROGRAMME
FOR THE
COMMISSIONING OF
THE EMBRAPA REGIONAL OFFICE
FOR AFRICA**

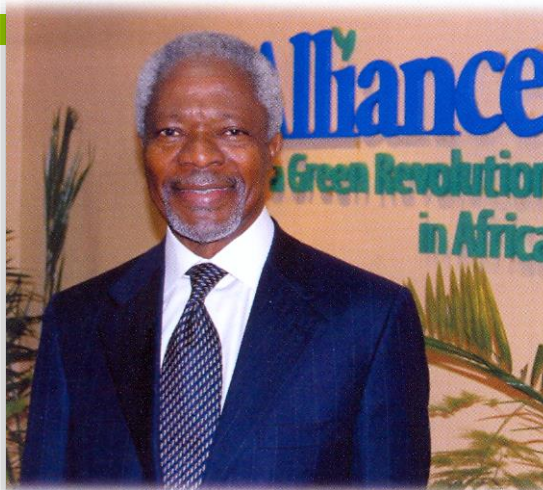


His Excellency John Agyekum Kufour
President of Ghana

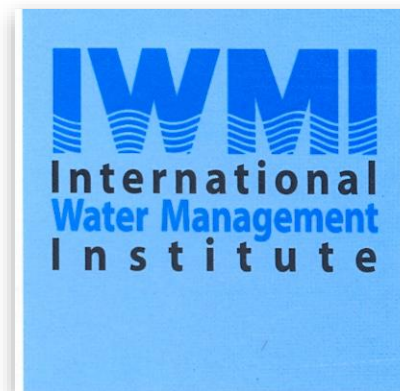


His Excellency Luiz Inácio Lula da Silva
President of Brazil

Time: 10:30AM
Date: SUNDAY 20TH APRIL, 2008
Venue: THE CSIR HEAD OFFICE
Accra Ghana



CABI



WASCAL



S&T Cooperation offers to other network members

- **Joint research work**
 - **So far none but we have been in touch with TUBITAK MAM of Turkey on Materials Science, and Bitumen/Asphalt research project**
- **Training facilities – CSIR has the following facilities for training of Scientists**
 - **Biotechnology laboratory**
 - **Accredited Food Science laboratory**
 - **Quality Water Control laboratory**
 - **Soil Nutrient Analysis laboratory**

Conclusion

- **The CSIR within the last one year has chalked quite an impressive success in its Research and Development Agenda.**
- **Efforts are made to improve upon this in the coming year as the Government planned to increase funding for Research in the country.**
- **The CSIR also look forward to greater collaborations with other International Research Institutions.**

THANK YOU

