

CSIR-CROPS RESEARCH INSTITUTE RESEARCH FOR DEVELOPMENT





WELCOME ADDRESS

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First Meeting of Sweetpotato Support Platform for West Africa 6 July, 2010.

CSIR-Crops Research Institute, Kumasi, Ghana.

BACKGROUND

CSIR-CRI is a key and dependable national agricultural research institution in Ghana's agenda to become a middle income country because of the following attributes:

- Ability to develop technologies to satisfy client /market demands.
- Multi-disciplinary team of scientists committed to national and institutional development
- Participatory research approach involving Farmers, Agroindustrialists, Exporters, Extension workers, Policy makers and Donors
- Strategic location. Fumesua (Headquart), with Kwadaso, Ejura, Assin Fosu, Anyinase, Pokuase, Ohawu, Kpeve as outstations in the various agro-ecological zones
- Achievements include Gold Award for being the Best National Agric. Res. Institution in Ghana.

Organizational Chart

MINISTRY OF ENVIRONMENT, SCIENCE AND TECHNOLOGY

COUNCIL FOR SCIENTIFIC AND INDUSTRIAL RESEARCH (CSIR)

CSIR-CROPS RESEARCH INSTITUTE

TWELVE OTHER CSIR INSTITUTES

CSIR-Crops resEarch institute

CSIR-CRI is currently the largest of the 13 Institutes of Ghana's Council for Scientific and Industrial Research (CSIR), which co-ordinates scientific research for national development.

Our <u>Vision</u> is to become a **Centre of excellence** for innovative and quality agricultural research for development and Our <u>Mission</u> is to develop and disseminate appropriate technologies for high and sustainable food and industrial crop production

CSIR-CRI's research and development activities are directed to meet the needs of clients (farmers, consumers, agro-based industries including the private sector), and other stakeholders through:

- development of quality, client/market-targeted crop varieties for direct consumption and industrial processing through innovative and participatory research.
- development and dissemination of appropriate, impact-oriented and cost-effective technologies for high and sustainable crop productivity.

RESEARCH PROGRAMMES

1. MAIZE IMPROVEMENT
2. LEGUMES IMPROVEMENT
3. RICE IMPROVEMENT
4. SEED TECHNOLOGY
5. ROOT &TUBER CROPS IMPROVEMENT
6. HORTICULTURAL CROPS IMPROVEMENT
7. RESOURCE & CROP MANAGEMENT
8. PLANT HEALTH
9. BIOCHEM. /BIOTECH. AND POST HARVEST
10. SOCIO-ECONOMICS
11. BIOMETRICS
THERE ARE ALSO TRAINING, COMMUNICATION AND COMMERCIAL ACTIVITIES

THESE PROGRAMMES ARE CARRIED OUT OUT BY A MULTIDISCPLINARY TEAM OF SCIENTISTS MADE UP OF

PHDs -25, MSc – 39, BSc /BA -23

AND OTHER SUPPORT STAFF

Mandate crops include:

- LEGUMES
 (cowpea, soybean, groundnut, bambara groundnut)
- CEREALS (Maize and rice)
- ROOTS AND TUBERS
 (yam, cocoyam, taro, cassava, frafra potato and sweet potato)
- VEGETABLES
 (pepper, garden eggs, tomato, onion, leafy vegetables)
- TROPICAL FRUITS (Plantain, banana, citrus, mango, avocado, pineapple, cashew, pawpaw)

Clients

- Ministry of Food and Agriculture (MOFA)
- Ministry of Education
- Ministry of Health
- Grains and Legumes Development Board (GLDB)
- Seed Producers Association of Ghana (SEEDPAG)
- Ghana Agri-Inputs Dealers Association (GAIDA)
- Farmers and Consumers
- Vegetable Producers and Exporters Association of Ghana (VEPEAG)
- Horticulture Export Industry Initiative (HEII)
- Exporters of Tropical Fruits
- Ghana Export Promotion Council (GEPC)
- Non-Governmental Organizations (NGOs)
- District Assemblies
- Industries (NESTLE, GAFCO, Cocoa Processing Company, ASCo, Cassava Processors, Fruit Juice Producers, Vegetable Oil Producers)
- Poultry and Livestock Farmers)

SWEETPOTATO RESEARCH AT CSIR-CRI

Under WAAPP the following are underway:

- Development of high and stable yielding consumer accepted sweetpotato varieties.
- Production and distribution of healthy primary (breeder) planting materials.
- 3. Promotion of sweetpotato utilization (Product development).
- 4. Studies on the availability, marketing and consumption of sweetpotato in Ghana.
- 5. CIP has recently added Establishment of Sweetpotato Support Platform(SSP)





ACHIEVEMENTS

Beginning with 3 varieties in 1998 CSIR-CRI has Released and Disseminated Seven

- high and stable yielding
- > consumer acceptable varieties with industrial attributes
- tolerant to biotic and abiotic stresses



CRI-Apomden:

- Pot. yield 35 t/ha.
- High B-carotene (vit. A) content

These 4 were released in (2005)



CRI-Otoo:

- Pot. yield 23 t/ha.
- Medium B-carotene (Vit A) content



CRI-High starch:

- Pot. Yield 18 t/ha.
 - 21% starch.
- Good for fufu,

ampesi and industrials uses



CRI-Ogyefo:

- Pot. Yield 20 t/ha.
- 12.4% starch content.
- Excellent for ampesi and fried chips

AT LEAST 2 ARE IN THE PIPE-LINE TO BE RELEASED

POST HARVEST RESEARCH Innovative products from Sweetpotato developed at CRI









Sweetpotato's potential in the Ghanaian food industry



Collaborating Institutions

- Sister CSIR Insitutes -PGRRI, FRI, SRI
- Biochemistry and Biotechnology Dept., KNUST
- Ministry of Food and Agriculture (MOFA).
- Ministry of Health Nutrition Dept.
- NGOs
- Farmers/FBOs/Farmer Groups
- International Potato Centre (CIP), Peru

Staff strength

Breeding	2
Agronomy	1
Virology	1
Pathology	1
Food Science (Post- harvest)	1
Tissue Culture	1
Molecular Biology	1
Socio-economics	1
Weed Science	1
Biometrics	1
Technicians	2

Sweetpotato Action for Security and Health in Africa (SASHA): Charity for Mama Africa

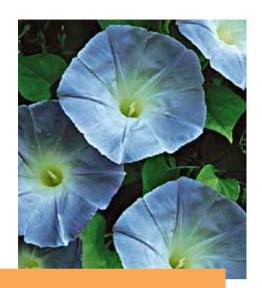
- •To invest in breeding, seed systems and sweetpotato stakeholders' capacities in 17 Sub-Saharan Africa countries.
- In 10 years, 10 million families enhance
 - √crop income 15%
 - ✓ diet quality 20%
- By increasing
 - ✓ output and intake
 - √diversifying use
 - ✓ building gender-equitable market chains.



- •Let us all support SASHA for Mama Africa
- Enjoy your stay







"Akwaaba"



