

**UniBRAIN**  
Universities, Business  
& Research in  
Agricultural INnovation



# Partnerships with Private Sector



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High Level Symposium for Africa-Dar es Salaam, TZ

# AFRI-BANANA PRODUCTS(AE



- **Background:**
- ABP as IDBPA consortium (KYU, FREVASEMA, UIRI, GreenHeat(U), KARI, MUST, EHC, EFIL) won a competitive(51) DANIDA grant through UniBRAIN initiative following AU Commission, 2008.
- ABP is a Co Ltd by Guarantee, with Kyambogo University as a lead institution. It has been formed with support from UniBRAIN –an initiative of FARA, PanAAC, ASSARECA, ANAFE, ABI-ICRISAT ,CCARDESA, CORAF/WECAERD as partners. ABP operates on the principle of P-P-P and is a consortium business incubator based on a University(KyU) Research institute(UIRI) and Private Sector(EHC.)

# ABP main proposition and outputs



## Proposition:

To enable universities, business and agricultural research institutions to commercialise agricultural technologies and produce graduates with entrepreneurial and business skills through agribusiness incubator partnerships

## Outputs:

- commercialisation of agribusiness innovations
- Agribusiness graduates-entrepreneurs produced by educational institutions
- UniBRAIN's innovative outputs, experiences and practices shared and up-scaled.

Source: UniBRAIN Program Doc. 2012

# ABP FOCAL POINT

- An Incubator on Banana Value Chain that so far has fully established:
- Biotechnological applications in,
  - a) primary fermentation of banana wine(*yeast*)
  - b) Secondary fermentation of vinegar(*A. acetii*)
  - c) Enzyme(PPO) inactivation –FREVASEMA-Patented Technology with UNCST/PSS in 2009 as STI 4R&D.
  - d) Bio-reactor biogas production
  - e) TC banana(disease-free) seedlings



# ABP other Technologies applied in production

include:

- Biodegradable shopper's bags
- Banana textiles and crafts
- Charcoal briquetting
- Enriched animal feeds formulations
- Dietetic menu formulations and canning
- Other potential include banana juice syrup as sugar, packaging edible insects(*nseene*) using natural sterile banana fibre and affordable sanitary pads for rural school girls.



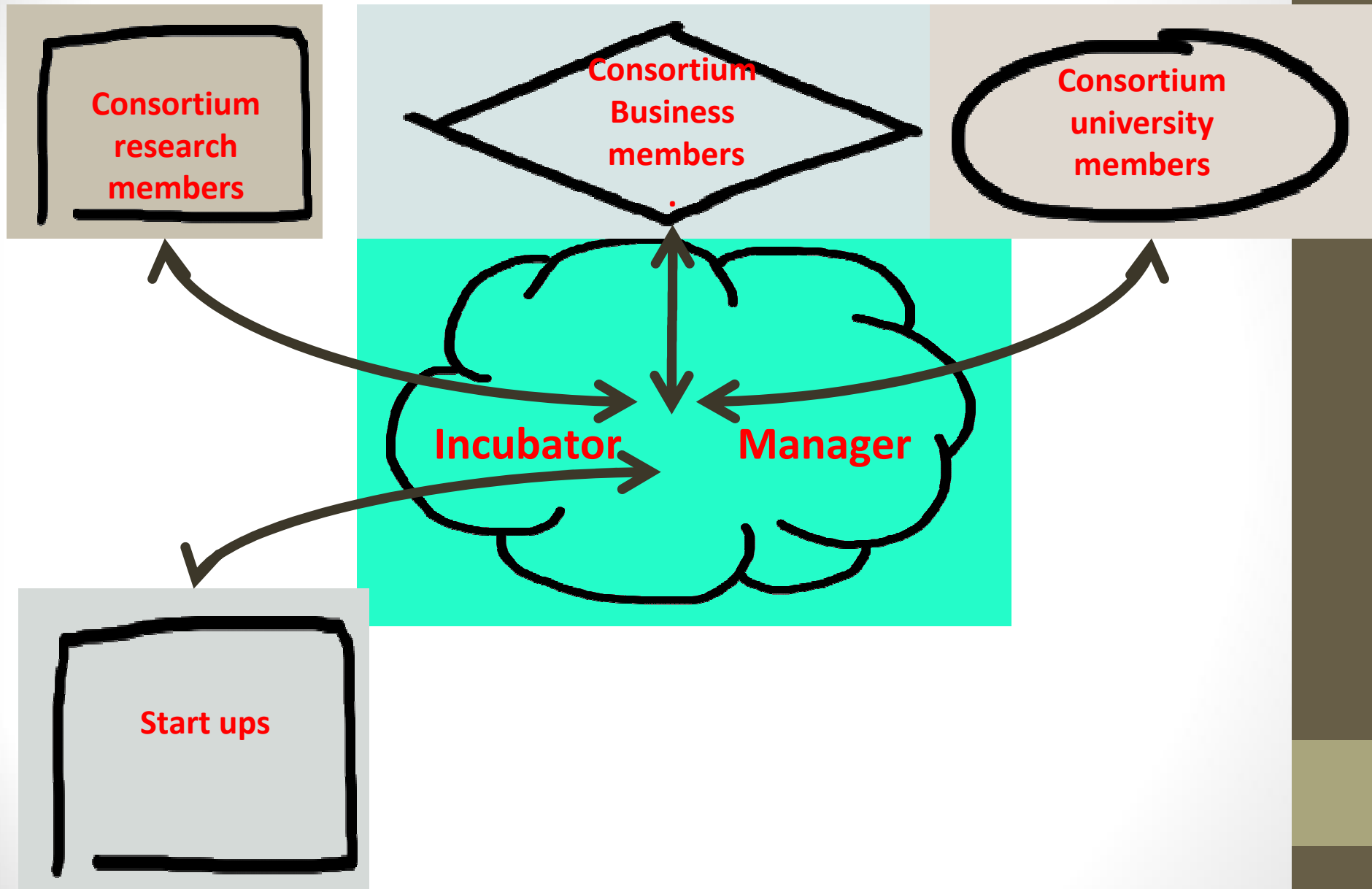
# Training of Graduates

- ABP has embarked on training of PG in Business Incubator Development & Management and supervision of interns and industrial attachments in STI and business in entrepreneurship skills.

Training farmers in post-harvest food handling and processing, including valuable use of food wastes in the banana value chain, the way Egypt and Nigeria have benefited from the rice and cassava value chains respectively



# Functions of a typical UniBRAIN Agribusiness Incubator



# ABP Clients- Incubatees/SMEs

- Clients as incubatees & SMEs apply to Incubator support
- So far, 2013 10 have been established under ABP
- Support is for kind of hand-lifting/soft landing that business angels rather than debentures would offer.
- ABP will offer limited funding, equipment and machinery for processing
- Also to be offered is space and marketing services





PLANTATION THAT LACKS MULCHES



# growing Matooke







GOOD HARVEST FROM MULCHED (STALKS & PEELS)  
PLANTATION





BULK TRANSPORTATION OF MATOOKE

(40% Waste of peels and stalks)

# DMC Transporting pick-up

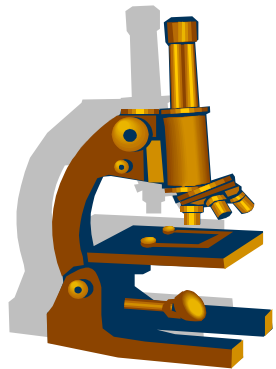




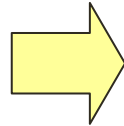
READY TO TRANSPORT BANANA FINGERS



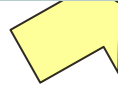
# From Laboratory to Market - Innovations



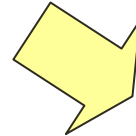
R&D



Patent application



Licensing



Start-up/ Spin-off



Commercialization



Technology Transfer



CREATION

PROTECTION

EXPLOITATION









THE PATENTS STATUTE, 1991

# Certificate of Grant of Patent

In accordance with section 22 (1) of the Patents Statute, 1991, it is hereby certified

having the No. UP./P./07./00001..... has been granted to:

Name: .....  
GEORGE WILLIAM BYARUGABA - BAZIRAKE

Address: .....  
KYAMBOGO UNIVERSITY P.O.BOX 7181 KAMPALA

On the ..... 23rd ..... day of October 2009 ..... one thousand n







# Community outreach services

- Midway HIV/AIDS SUPPORT
- Sanyu Babies home
- Watoto CBO
- Exhibitions in all Ugandan Regions
- Promotion of product in supermarkets
- Diaspora-USA,UK & Dubai







PRODUCTION OF FRESH VACUUM PACKED BREAD AND OPTIMAL UTILIZATION OF BAKING MACHINES

**1.0 Introduction**  
This brochure that will be handed to the interested persons, will give them an insight to the production of fresh vacuum packed bread. It will also give them the necessary information on the use of the baking machines. The information is intended to help the interested persons to start their own business in the production of fresh vacuum packed bread. The information is intended to help the interested persons to start their own business in the production of fresh vacuum packed bread.

VACUUM  
PACKED

# US FDA for FREVASEMA Oct.2011





# USFDA for ABP Ltd, Feb. 2013



# Restaurant Depot

WHERE RESTAURANTS SHOP



**GLOBAL FOODS  
WAREHOUSE**

**4928B**



**DISTRIBUTORS:  
AFRICAN, CARRIBEAN,  
LATINO & ASIAN FOODS**

**RETAIL  
\$ WE SELL  
FOR LES**



**GLOBAL FOODS  
WAREHOUSE**



**OPEN HOURS**

MON	10:00am - 7:00pm
TUE	10:00am - 7:00pm
WED	10:00am - 7:00pm
THUR	10:00am - 7:00pm
FRI	10:00am - 7:00pm

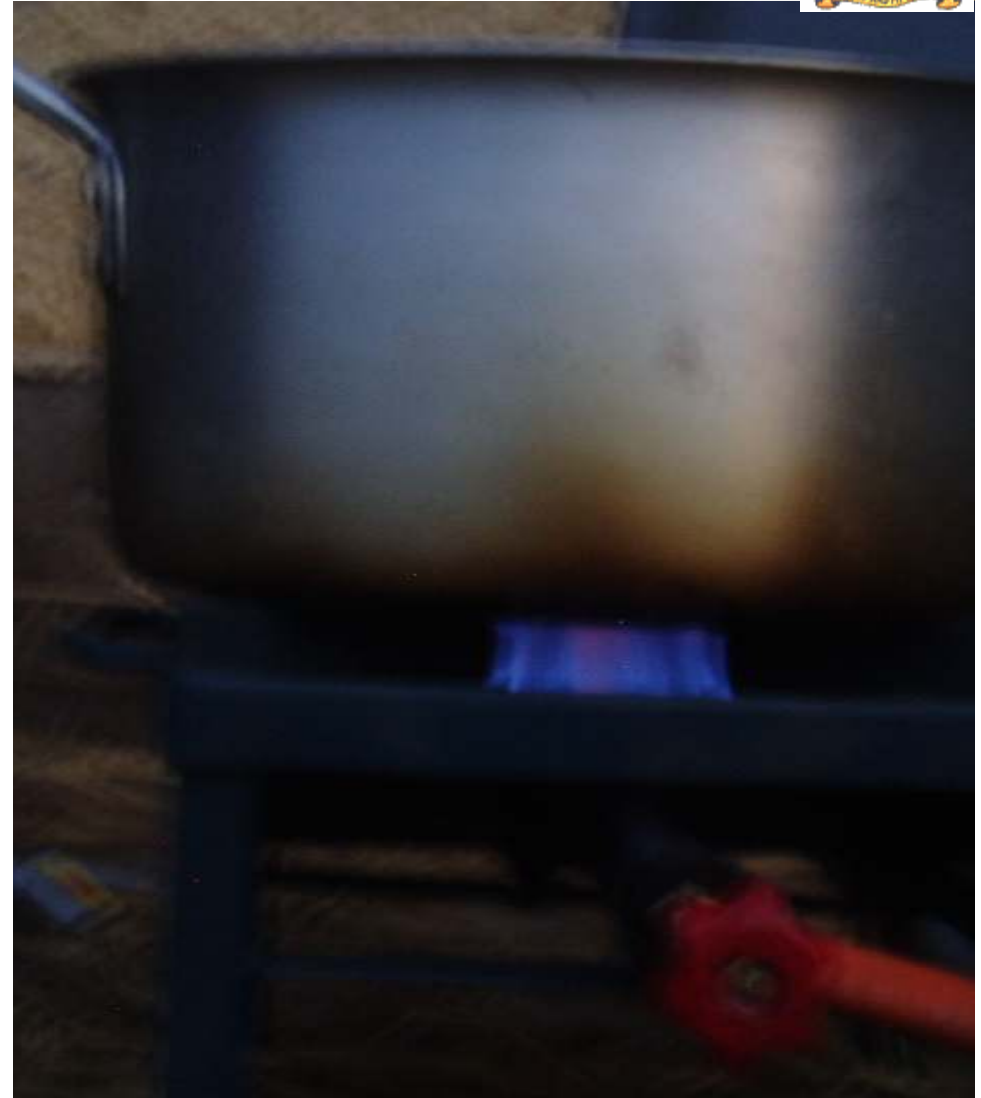
**OPEN**







# Biogas from peels burning





# Enriched animal feeds



# Biodegradable shopper bags



  
*Afri Banana Products Ltd*



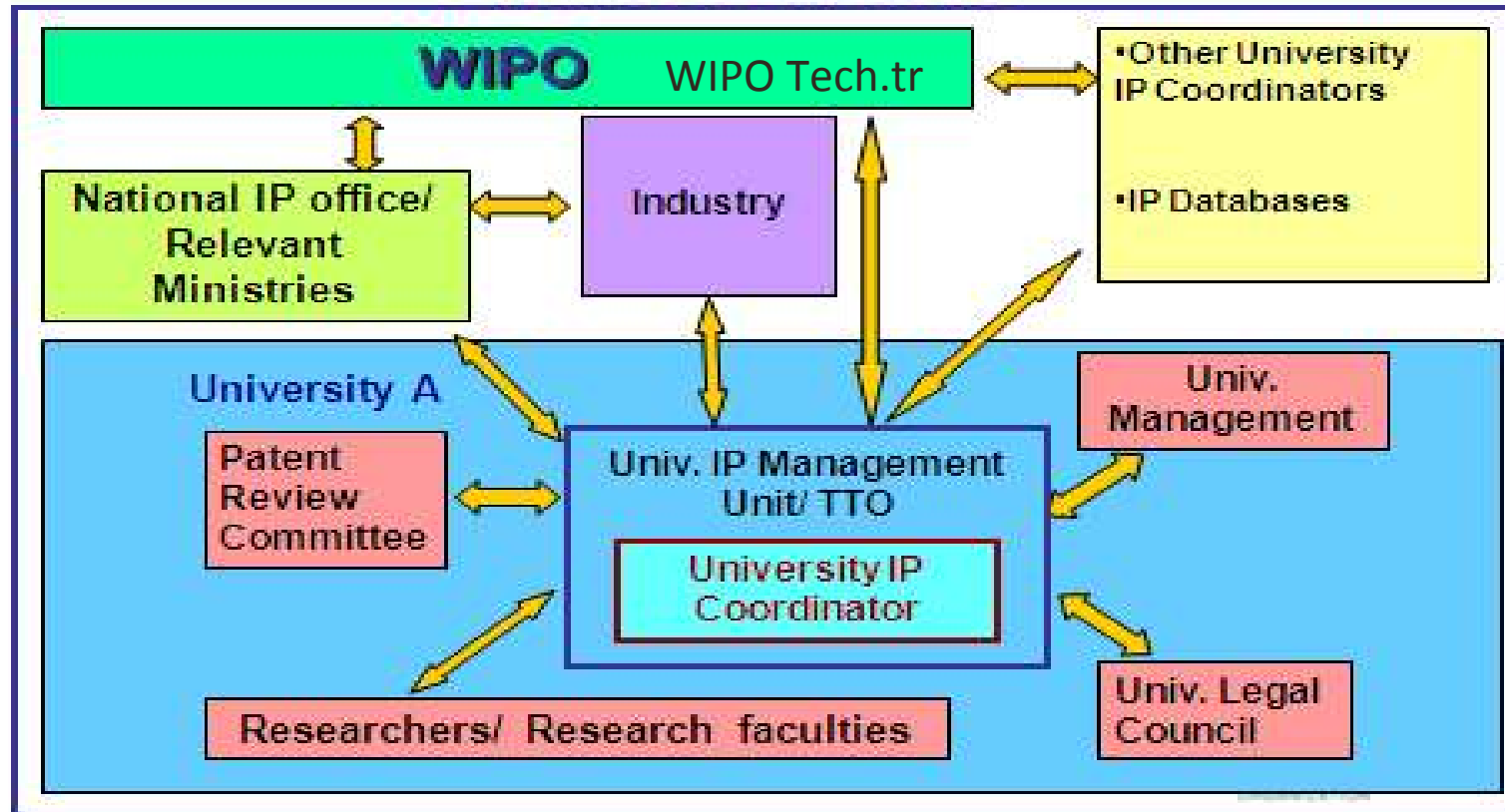
# Banana TC seedlings



*Afri Banana Products Ltd*



# WIPO University Initiative Infrastructure

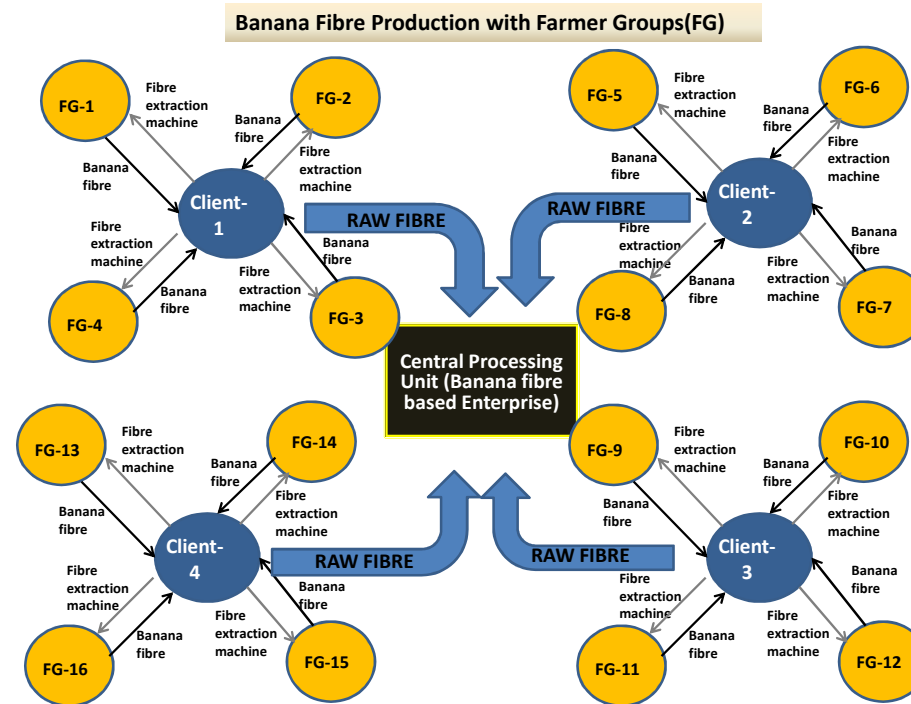


# Applying WIPO University Initiative

- KYU works with UIRI, UNCST, NARO, MUST
  - University IP & Tech Transfer Coordination
  - University Legal Office engagement-MOU
  - Industry-Private Sector Partnership
  - IP Policy in development
  - P-P-Partnership in licensing patented technology
  - Liaison with National IP Office-URSB
  - University involvement in IP management
  - Further research facilities-creation of Incubator/Innovation Centre and Science/Industrial Park

# One of the Business Models of ABP

- Banana Fibre Production



# UIIA Registered

- UIIA



## Uganda Inventors and Innovators Association

Plot 67- Ground Floor, Postel Building, Clement Hill Road  
P.O.Box 37368, Kampala- Uganda: Tel: 0414341340

# ABP-BoD at its offices



THANK YOU FOR YOUR ATTENTION