15th ACA Annual Cashew Conference

ACA
AFRICAN CASHEW ALLIANCE

# A SUSTAINABLE CASHEW SUPPLY CHAIN FOR THE FUTURE

*Fully Online*

**15 -17 September 2021**

Name, Date

# Digital solution to improve cashew farming

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ComCashew has been in the front row when it comes to implementing Digitalization in the cashew sector.

Some of the E-Services used and tested are

# E-Services

- Radio programs
- SMS text messages
- Phytosanitary mapping
- KOR mapping
- Digital data collection
- FBS Innova-Cashew
- SAP sourcing app
- Used of GIS

# Radio Programs

Information is very critical in assisting farmers. For this reason there are specific scripts that are been broadcast to farmers via radio stations in 5 countries.

# SMS messages

- In order to make sure that every farmer is not left out in the Information dissemination, short extension messages about specific GAP practices and other essential information are sent to farmers.

# Phytosanitary  Mapping

- Phytosanitary mapping is an app developed in Ivory Coast with REDAA. Disease infestation can cause a lot of harm. This help helps identify areas with diseases, the spreading dynamics and suggest ways to stop and control the spread.

# KOR Mapping

- KOR mapping is the collection of different samples of Nuts across different countries. These nuts are evaluated and the different KORs are mapped.

# Digital Data Collection

- Data is the heart beat of good decision making and as such accurate, valid and valid data is need. Yield surveys are conducted by countries to know the current state of cashew and this is done paperless and information is analyze rapidly

# FBS Innova-Cashew

- This is app is a system that helps new cashew farmers with the platform to keep track of expenditure and income, contains important information about GAP adaptation, etc

# SAP sourcing app

- Nut traceability is very important to the processor and the cashew market at large. This apps generate barcode that will be attached to the bag of cashew. This barcode code contains information like the quantity, quality(KOR), farmer, etc.

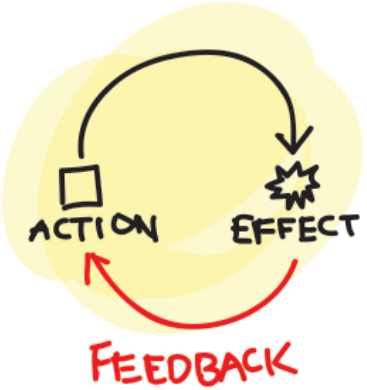
# Used of GIS technologies

- GIS help us conceptualize data and information better and help in better decision making. Some of the E-Services mentioned employ the use of GIS.

ICT for post-harvest management is the next thing we are working on

# ICT for post-harvest management

- Know the quality of your product
  - > getter better prices
- Break information asymmetry
- Get feedback on farming practice




# TDR and KOR

**Total Defect Rate (TDR)**

This gives the quantity of defective nuts of the sample.

**Limit**

In general, a sample with more than **24%** of defective nuts is rejected.

**Kernel Outturn Ratio (KOR)**

This is the amount of usable kernels after deshelling the nuts.

# Cashewlator

The Android app was developed by Torak Technologies Ltd.

It is a **customized calculator** for the KOR and TDR quality parameters

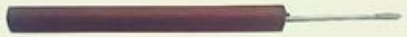
Comprehensible visualization of results

# What do you need for the quality test?

Material to weight :
**one electronic balance with a precision of 0.5 gram**

Material to take nuts from the bag :
**catheter bag**

Material to open the nuts :
**one pair of scissors especially designed for shelling raw cashew nuts**



Material to separate the kernel from the shell :
**One scooper (could be adapted from a screw driver or made by local crafts men)**

**Plastic buckets :**
for the samples
(one bucket/one sample)

**4 plastic bowls** to store kernels and nuts during the analysis. The use of bowls of different colours (green yellow, red, blue) would make easier the sorting out of the kernels

**A pair of latex gloves**
to protect hands

# The “Cashewlator” app

Play video