Cassava Seed Tracker™
www.seedtracker.org/cassava

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Outline

- Recap – Nigerian seed regulations & standards
- CST overview and introduction to key features
- Next steps
- Demo (post-meeting activity)
Commercial seed production

Prerequisite

- Seed company registration Corporate Affairs Commission, including type of seed to be produced (Basic or certified).
- Separate registration (trade name) required for each class of seed.
- Breeder seed remains the responsibility of NARS with crop mandate (e.g. NRCRI) and other organizations recognized by NASC (e.g. IITA).

Seed production [Basic and Certified]

- Pre-planting: Selection of (approved) variety, Field, Source seed and Registration with NASC [1st inspection]
- Planting and field management: Spacing, Varietal purity, Incidence of “notified” pest and diseases, weediness [2nd inspection]
- Harvesting: Incidence of notified pest and diseases, Stem quality, Stem quantity, Labelling [3rd inspection]
Registration

http://new.cac.gov.ng/home/
Corporate Affairs Commission - Company Registration Portal

http://seedcouncil.org.ng/
Seed company registration also through NASC web portal also.

Seed field registration
Guidelines for registered seed production

Information resource

Step-by-step directions

Quality thresholds

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Basic seed</th>
<th>Certified</th>
</tr>
</thead>
<tbody>
<tr>
<td>Off type</td>
<td>10%</td>
<td>20%</td>
</tr>
<tr>
<td>*CMD (mosaic)</td>
<td>10%</td>
<td>20%</td>
</tr>
<tr>
<td>*CAD (Anthracnose)</td>
<td>10%</td>
<td>20%</td>
</tr>
<tr>
<td>*CBB (bacterial blight)</td>
<td>10%</td>
<td>20%</td>
</tr>
<tr>
<td>Scale insects</td>
<td>0%</td>
<td>20%</td>
</tr>
<tr>
<td>CM (mealybug)</td>
<td>10%</td>
<td>20%</td>
</tr>
<tr>
<td>CGM (green mite)</td>
<td>10%</td>
<td>20%</td>
</tr>
<tr>
<td>*CBB, CMD, CGM only plants with severity ≥3 are scored</td>
<td></td>
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</tr>
</tbody>
</table>

- Minimum isolation distance 5 m
- At least 7 months old
- Stem girth of ~1.5 to 2.5 cm
- About 1 m stems; 50 stems per bundle
- Ratooning or regeneration
  - 2x for Basic seed
  - 3x for certified seed
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Integrated seed resource management software

- Secure
- Secure data
- Personalized data

Producers
Researchers
Traders
Regulators
Extension specialists
Logistics/input dealers
Inventory of costs / seed stock
Registration (on-line forms)
Tool set (weather, cost estimation, crop management decision support, etc.)
Flexible platform to tailorable to user needs, other crops and countries
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Variety of features

Crop Management Tools
Cassava Seed Tracker™ provides a central database with a variety of digital forms and tools for registered users to support their operations. It offers real time data access and analytics, all registered users free of cost.

Cassava Community
Cassava Seed Tracker™ provides a platform for connections between all the cassava stakeholders to exchange information, share experiences, knowledge, contacts for mutual benefit.

Seed Tracking
Seeds can be tracked throughout planting, crop management, harvest data, distribution, inventory management and more with Cassava SeedTracker™

Cassava Varieties
Information on the numerous Cassava Seed Varieties viable for planting are constantly updated on Cassava Seed Tracker™.

Trade info
Market information, seed availability, seed stock, price variations and other cassava seed trading related information are aggregated.

Decision Support
Decision support tools are available on Cassava Seed Tracker™ to assist seed producers on optimal seed growing metrics.
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Interactive map

User Categories by Location

User Types:
- Trader (Buying & Selling)
- Regulator
- Extensionist

Name: Lydia Ogunya
User type: Extensionist, Regulator, Trader (Buying & Selling)

Click here to see Lydia's profile.
Send Lydia a mail: akanbilydia@gmail.com
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Input forms – Dash board
Input forms – Dash board

- **Pre-planting information**
  - Information communication to regulators
  - Regulators review information and feedback
  - Registration fee payment

- **Planting**
  - Spacing and crop management details
  - Post-planting inspection (2nd inspection)
  - Check list and quantitative data for quality thresholds

- **Harvesting**
  - Check list and quantitative data for quality thresholds
  - Barcoding (QR Code)

- **Traceability** (QR Code)
  - Field registration to post harvest tracking

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https://ona.io/iitayamseedtracking/21255
Next steps

- CST user registration
- Training in using data entry forms
- Populating CST site with information and tools
- Single singing on QR coding
- Bug fixing
- Scoping for server set-up in NASC
- Training NASC
- Integration into NASC website
- Full launch in the BASICS 2nd annual meeting - 2017
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www.seedtracker.org/cassava

Acknowledgments

Thanks for Your Attention
The purpose the BASICS project is to develop a sustainable cassava seed value chain in Nigeria, characterized by the commercial production and dissemination of cassava planting material. The project envisages benefits to farmers and the industry through higher returns from the use of clean planting material of superior stem quality that are made accessible to farmers at the right time and at an appropriate price.