

## Acronyms:

CBSD - Cassava Brown Streak Disease

CFT - Confined Field Trial

CMD - Cassava Mosaic Disease

DDPSC - Donald Danforth Plant Science Center

GM - Genetically Modified

KALRO - Kenya Agricultural and Livestock  
Research Organization

NBA - National Biosafety Authority



[www.cassavaplus.org](http://www.cassavaplus.org)



[www.africenter.isaaa.org](http://www.africenter.isaaa.org)



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# VIRCA Plus Project Kenya

## Our Journey to Disease Free Cassava





**2008**  
**Proof of concept.**  
 VIRCA Project is launched to develop disease resistant cassava.

**2011**  
 First CFT for testing CMD resistance approved and planted at KALRO Alupe.



**2012**  
 Approval and planting of a GM cassava CFT with a model variety (TMS 60444) with resistance to CBSD at KALRO Mtwapa.

**2013**  
 Approval and planting of farmer preferred GM cassava variety (TME204) with resistance to CBSD at KALRO Mtwapa.

**2015**  
 Approval and planting of a crossbreeding trial for GM cassava and farmer preferred varieties at KALRO Kandara.



**2014**  
 CFTs at KALRO Mtwapa continue. Two best performing CBSD resistant cassava lines (4026 and 4046) selected for safety evaluation and crossbreeding.

**2016**  
 Approval and establishment of regulatory field trials for safety studies at KALRO Kandara. Cassava seeds harvested from the crossbreeding trial.

**2017**  
 Sampling for food and feed safety analysis. Evaluation of seedlings (progenies) germinated from seeds from the crossbreeding trial.

**2018**  
 Evaluation of progenies from the crossbreeding trials continue at KALRO Mtwapa. Approval and planting of CFTs for two additional farmer preferred GM cassava varieties (NASE 13 and NASE 14) at KALRO Mtwapa.

**2019**  
 Food and feed safety analysis completed for CBSD resistant cassava line (4046); Request for environmental release approval submitted to NBA. Superior varieties selected from progeny evaluation advanced for yield selection trials at KALRO Mtwapa and KALRO Alupe.

