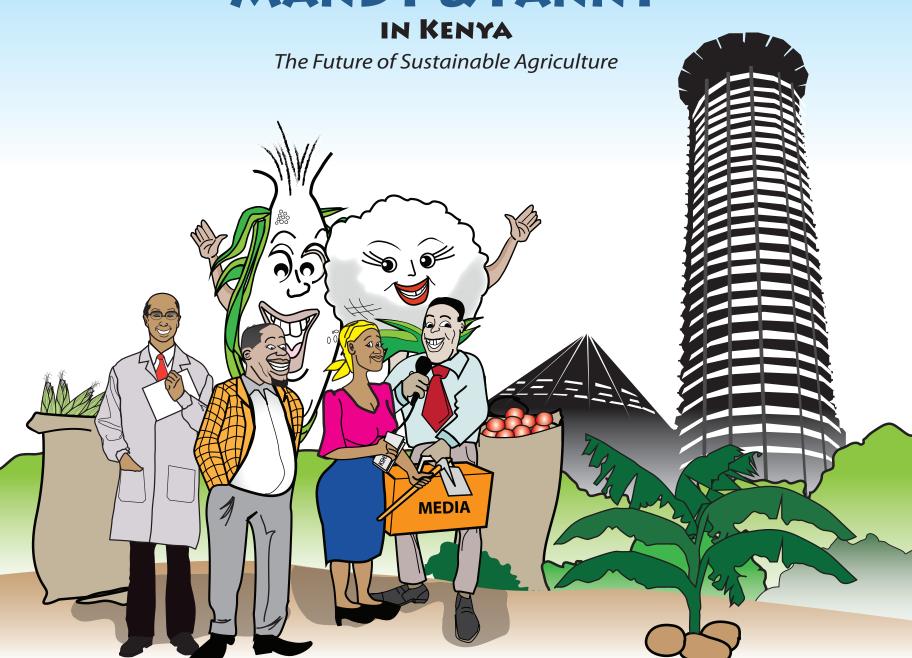
ADVENTURES OF

MANDY & FANNY



Publisher: The International Service for the Acquisition of Agri-biotech Applications (ISAAA)

Copyright: ISAAA 2012. All rights reserved. Whereas ISAAA encourages the global sharing of information, no part of this publication, including the names and images of the characters, may be reproduced in any form or by any means, electronically, mechanically, by photocopying, recording or otherwise without the permission of the copyright owners. Reproduction of this publication or parts thereof for educational and non-commercial purposes is encouraged with due acknowledgement, subsequent to written permission being granted by ISAAA. The authors, not ISAAA, take full responsibility for the expressions in this publication and for any errors of omission or misinterpretation.

Citation: Karembu Margaret, F. Nguthi and B. Bitta, 2012. **Adventures of Mandy and Fanny in Kenya:** *The Future of Sustainable Agriculture.* ISAAA Biotech Crops Animation Series, ISAAA AfriCenter, Nairobi, Kenya.

Publication orders: Please contact ISAAA Africenter office for your copy of this publication at m.karembu@cgiar.org and info@isaaa.org.

ISAAA AfriCenter c/o ILRI Campus Old Naivasha Road PO Box 70-00605 Nairobi, Kenya

For more information about ISAAA, please contact the center near you.

ISAAA AmeriCenter

105 Leland Lab

Cornell University
Ithaca, NY 14853
USA

ISAAA AfriCenter
ISAAA AfriCenter
ISAAA AfriCenter
ISAAA SEAsiaCenter

ISAAA on net: For more information on crop biotechnology visit: www.isaaa.org/kc

ADVENTURES OF MANDY & FANNY IN KENYA

The Future of Sustainable Agriculture



ISAAA Biotech Crops Animation Series

Glossary

Name in Kiswahili **Translation**

Pamba Cotton in Dholuo

Bwana Mheshimiwa Honorable Member of Parliament

Bwana Habari News Reporter/Journalist

Hamjambo! How are you?

Jambo Hello

Kilimo Bora Good farming practices

Kwaheri ya kuonana Bye bye

Second-hand clothes Mitumba

Mwananchi Citizen

Maize in Dholuo Bando

Pwani Coast

Maize flour Unga Wananchi Citizens

The ordinary Kenyan Wanjiku

Professor Mimea Plant expert

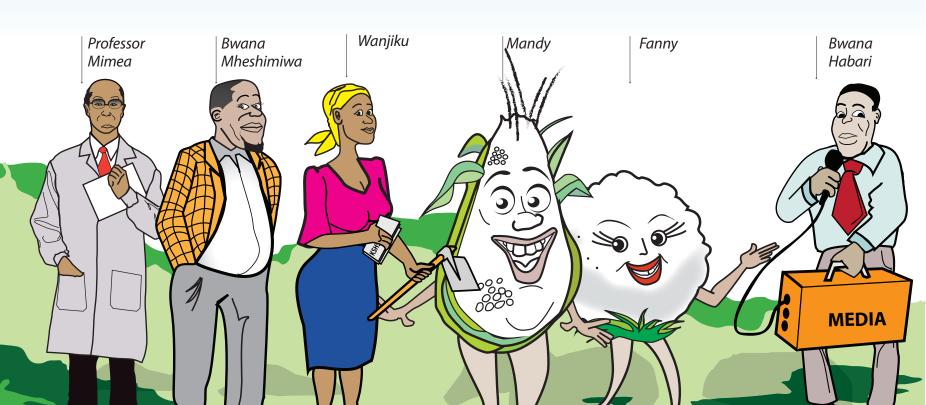
A popular exclamation in Dholuo Yawa

Acronyms

WHO World Health Organization

FAO Food and Agriculture Organization **KARI**

Kenya Agricultural Research Institute



Introduction

he following story is an adaptation of ISAAA's biotech crops educational cartoon book titled *Mandy and Fanny: The Future of Sustainable Agriculture* that was developed by the ISAAA South Asia Office, India. It narrates the story of two characters — Mandy and Fanny—who personify genetically modified (GM) maize and cotton.

The crops have been commercially grown in different countries around the world, including South Africa, since 1996. Mandy and Fanny pay a visit to Kenya and are surprised by the negative publicity in the media.

They decide to take an educational tour of the country and interact with major stakeholders:

- Government representatives
- Politicians and opinion leaders
- Journalists
- Farmers
- Consumers

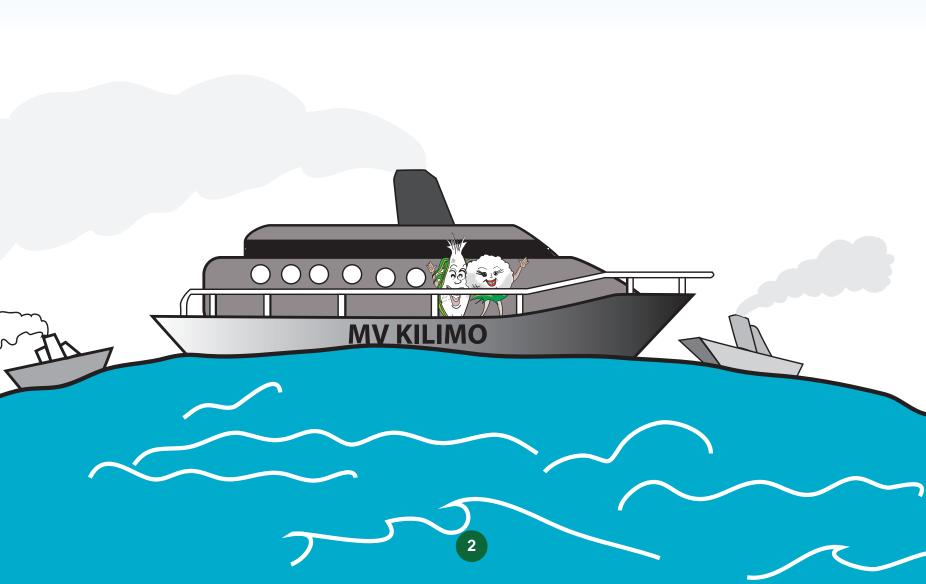
During the tour, they provide useful insights on biotechnology and its benefits as well as correct the misconceptions about crop biotechnology.

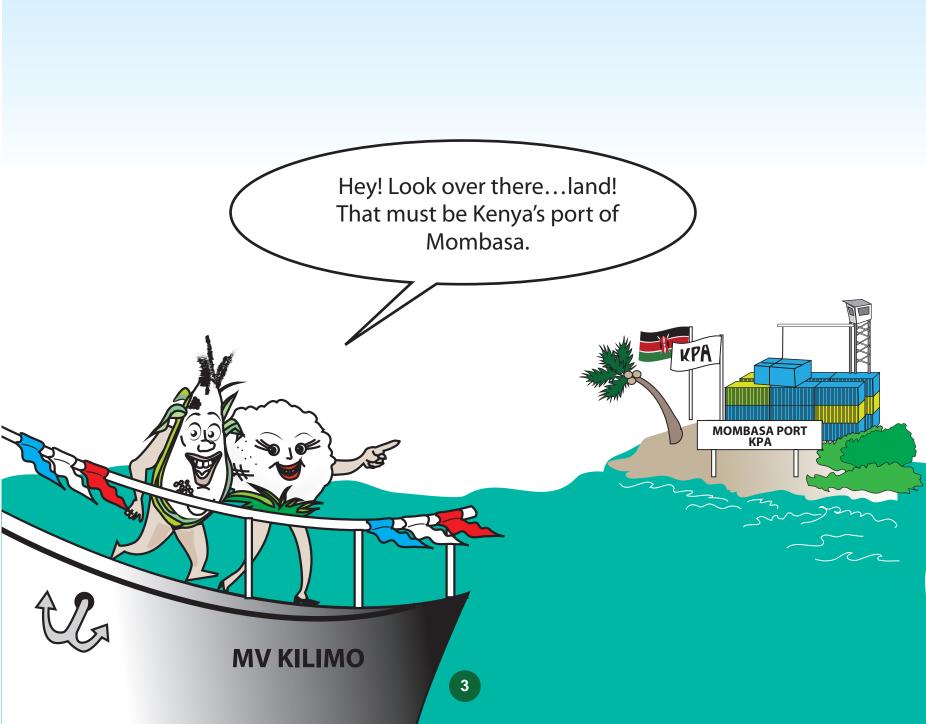
Wanjiku, a character representing the ordinary Kenyan (mwananchi) has several encounters with Mandy and Fanny throughout the tour. Bwana Habari is a journalist who plays a key role in relaying information to the public about the trip.

Mheshimiwa is a Member of Parliament who relies on media stories to understand biotechnology. From his encounter with Mandy and Fanny, he decides to undertake a fact finding mission to South Africa and Burkina Faso. He gets all the facts and becomes a champion of biotechnology.

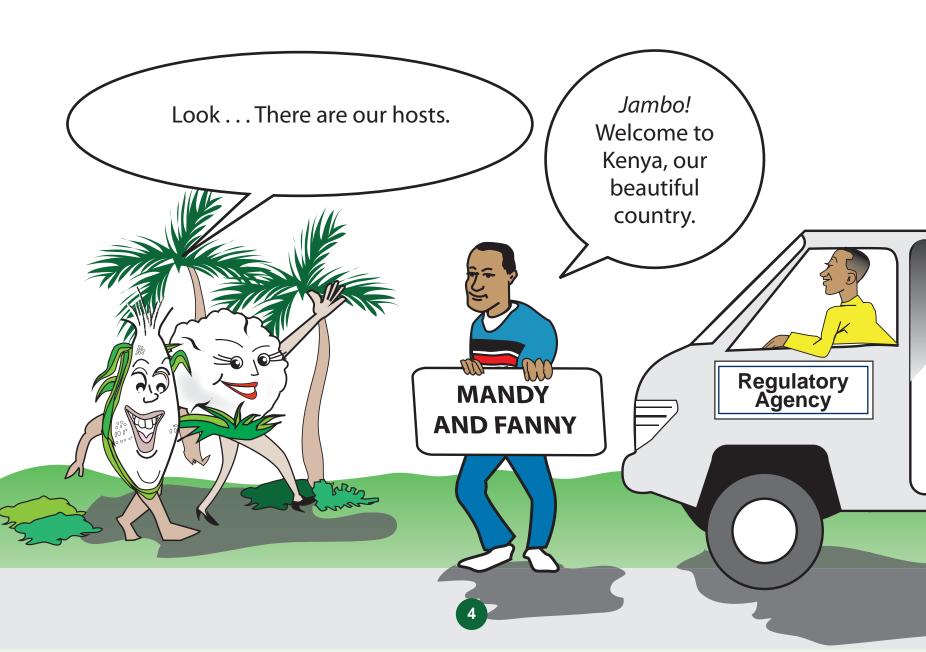
The story ends with a national conference that discusses the status of agricultural biotechnology in Kenya.

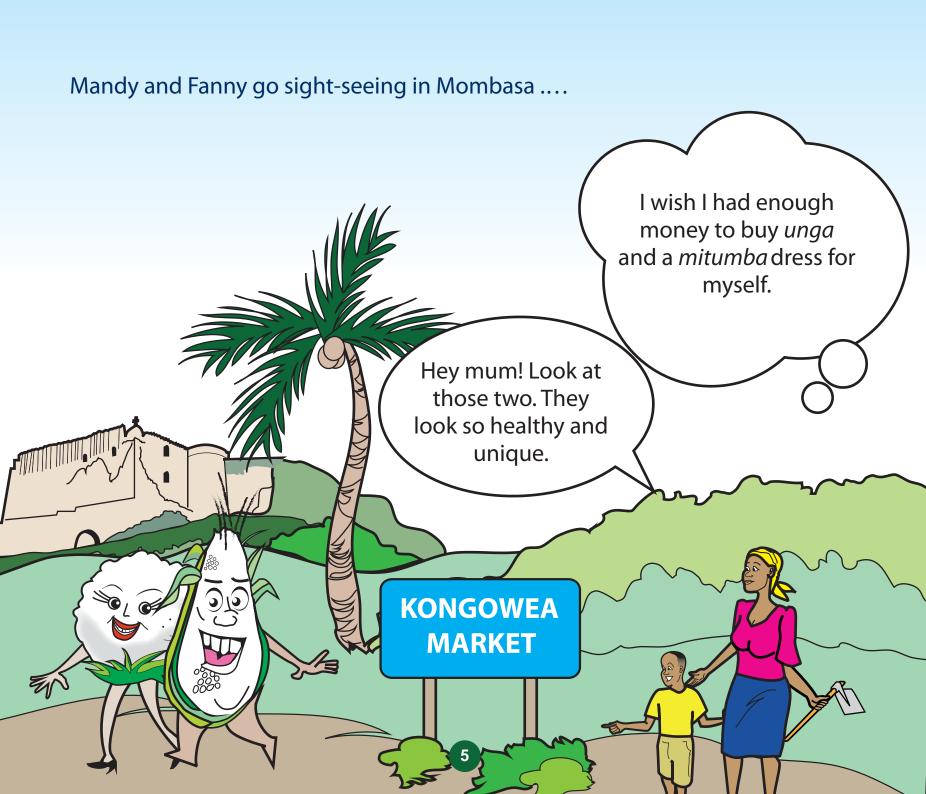
A vessel, *MV KILIMO BORA*, approaches the Mombasa port from South Africa. On board are Mandy and Fanny.



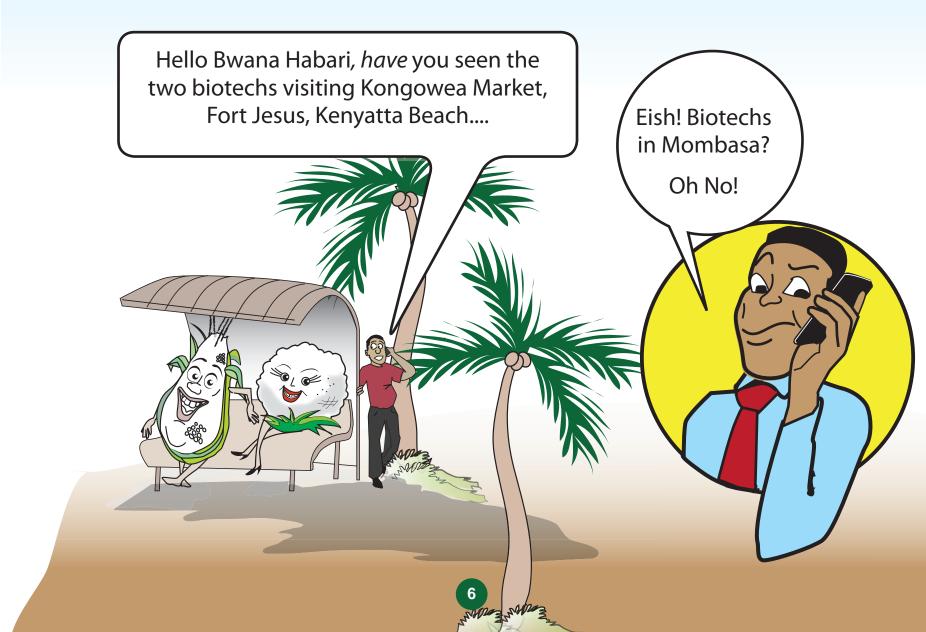


Upon arrival and being cleared at the port, they are received by biosafety regulators.

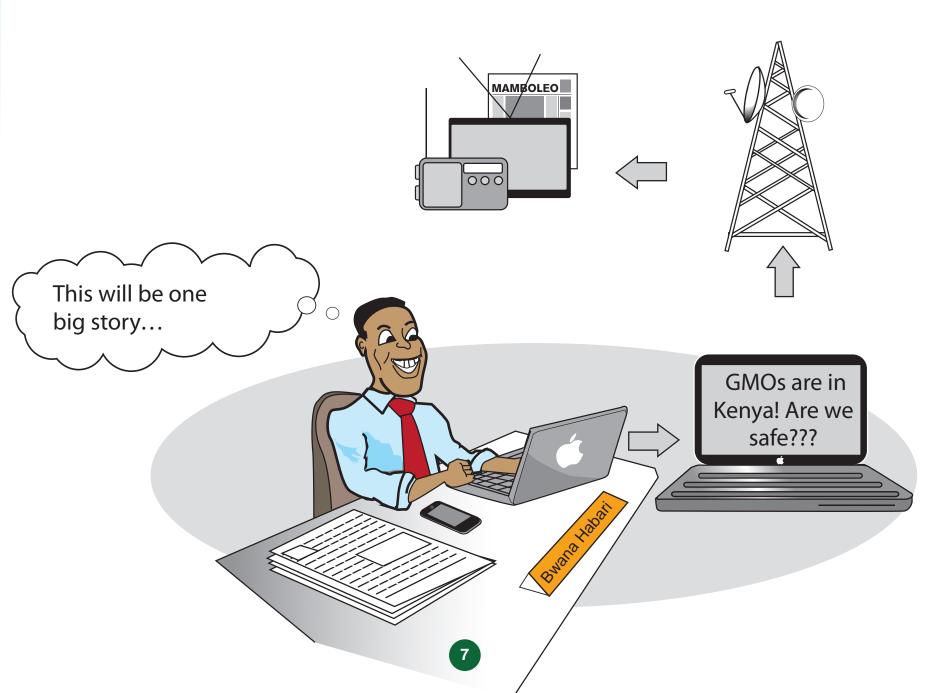


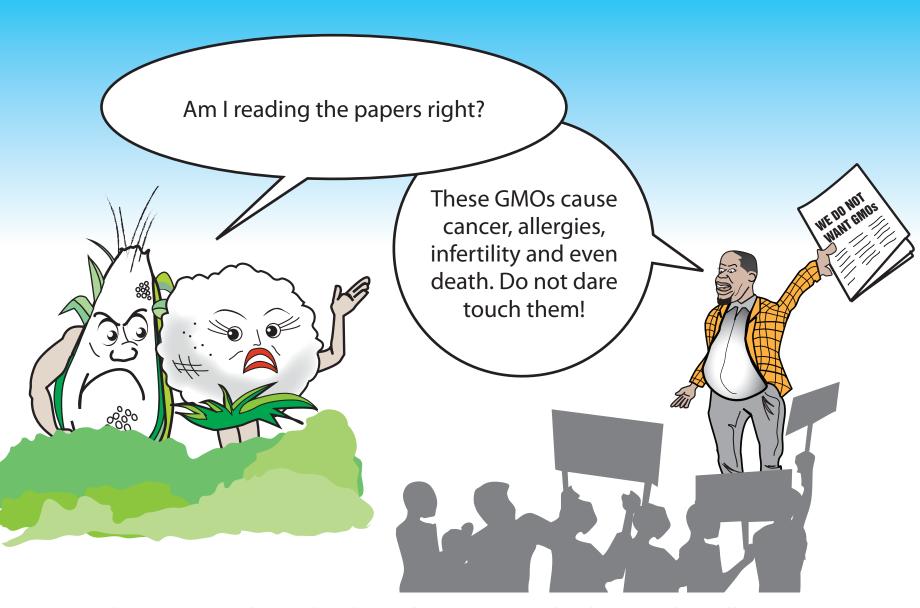


Meanwhile, Bwana Habari, gets wind of Mandy and Fanny's arrival...



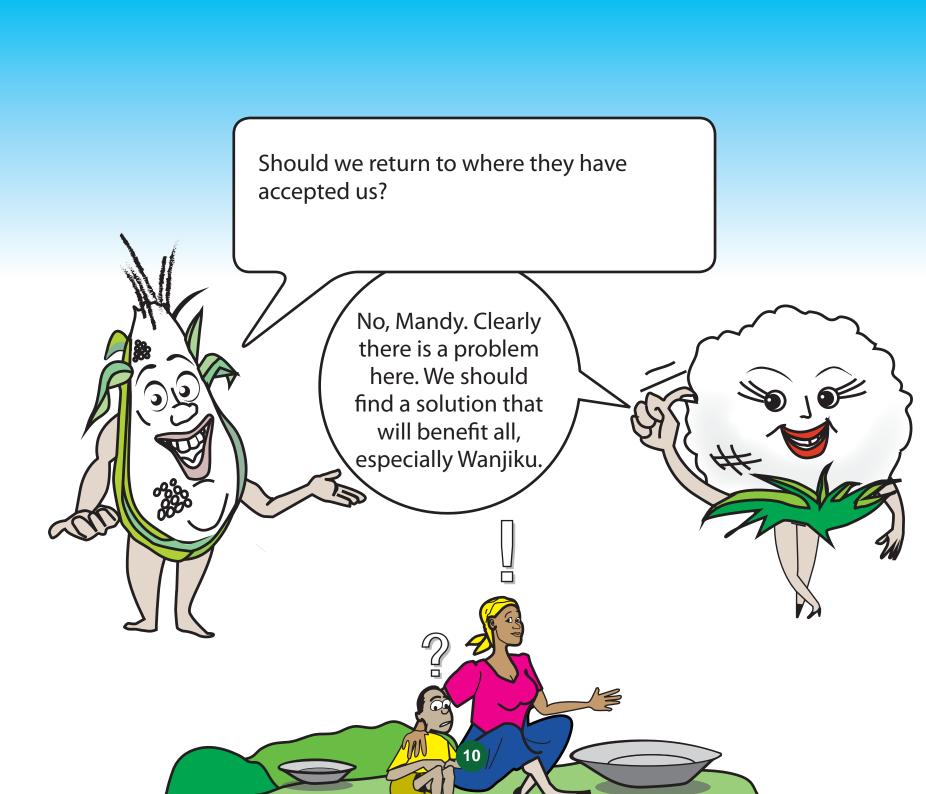
Bwana Habari ponders the implications of the pair's trip.

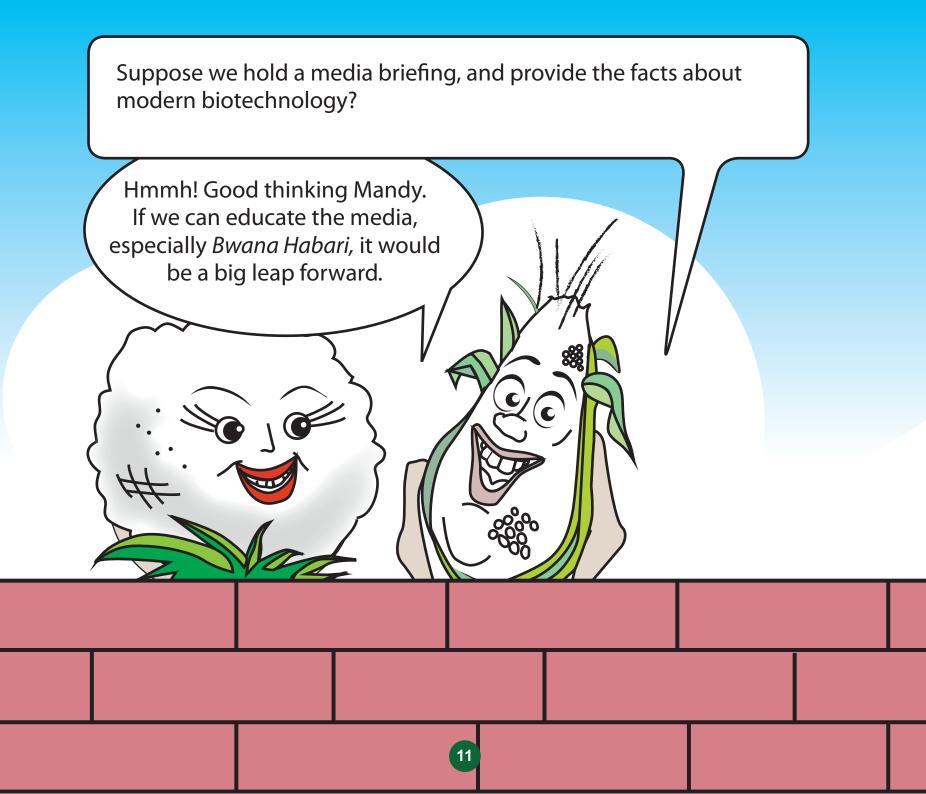




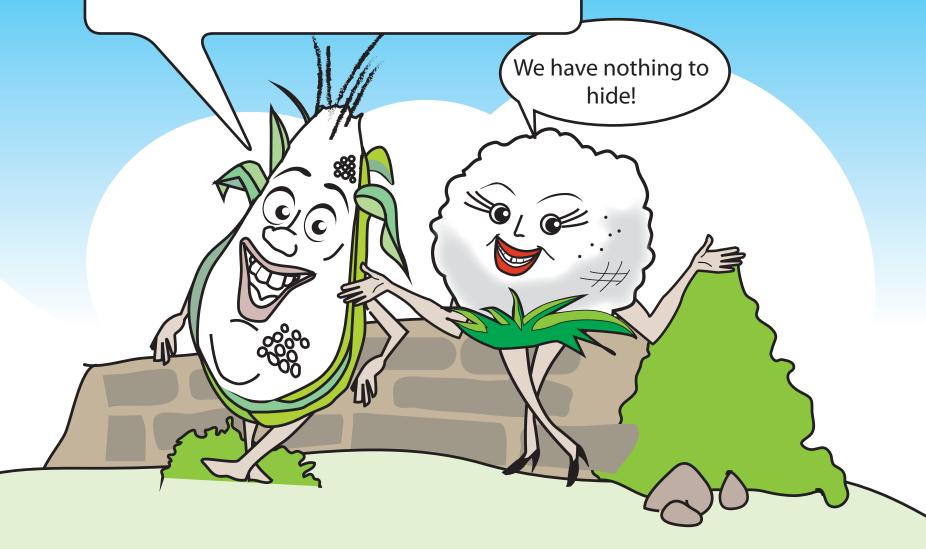
Media reports on biotechnology alarm Bwana Mheshimia, who calls a rally to denounce the technology and warn his constituents against eating GM foods.

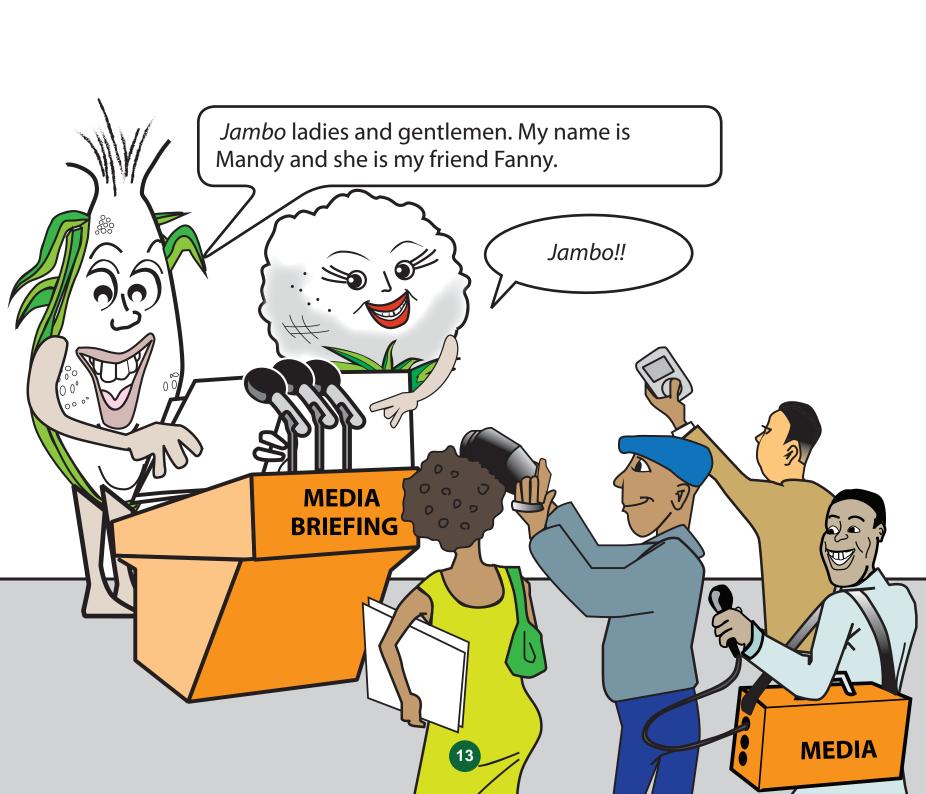


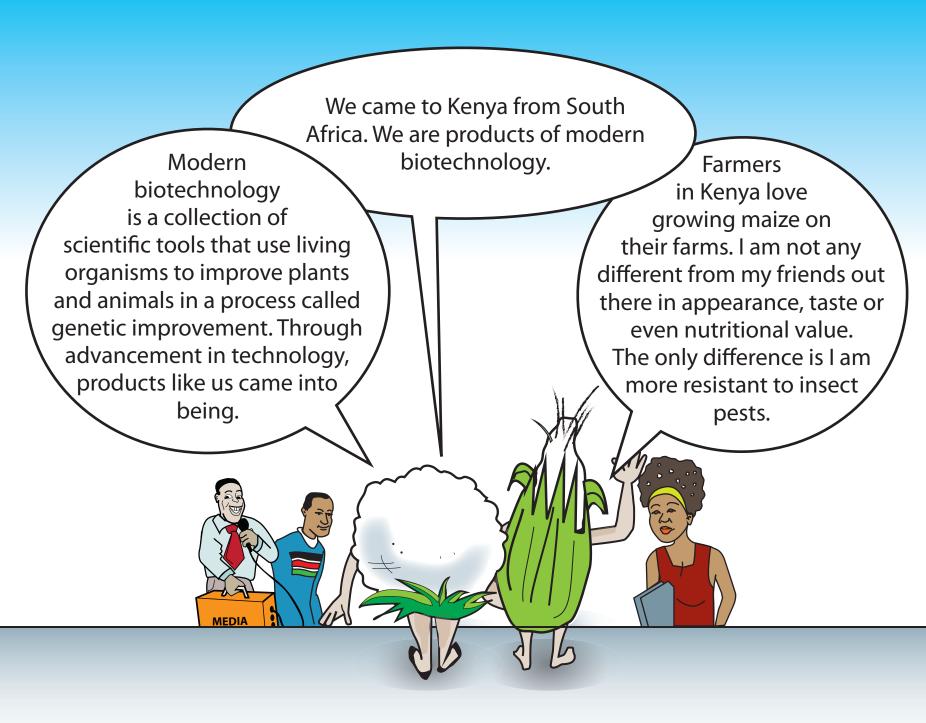




With *Bwana Habari* on our side, we will be able to reach policy makers, farmers and consumers. These people seem to take media stories as gospel truth....





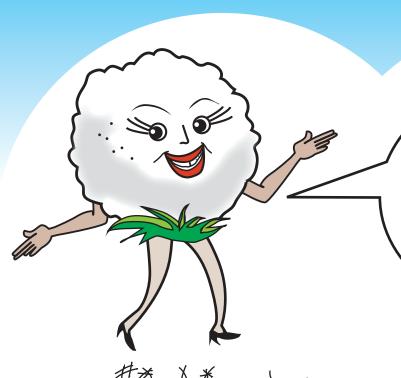




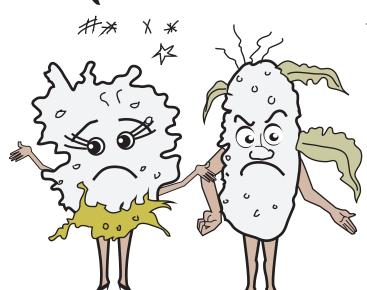
I am able to resist pests such as stem borers that destroy my friends out there.

MEDIA BRIEFING

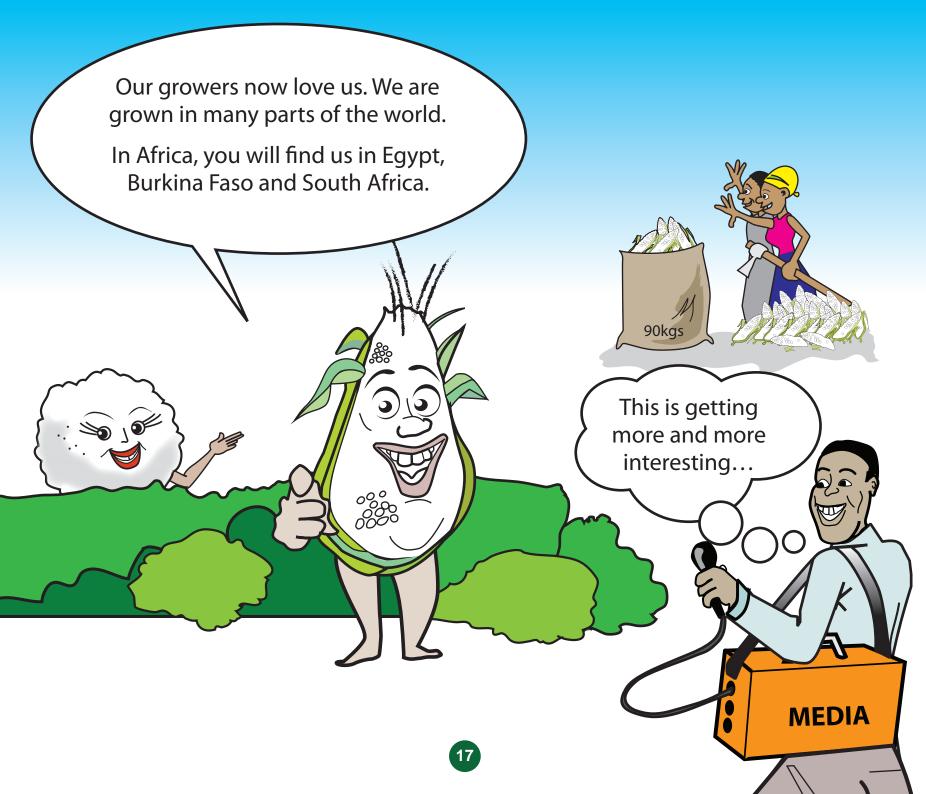
The unique genes in me make my bolls soft, big and fluffier. I am able to resist pests such as bollworms that attack many of my friends out there. Farmers use fewer insecticides on me and I am able to grow in tough weather conditions.

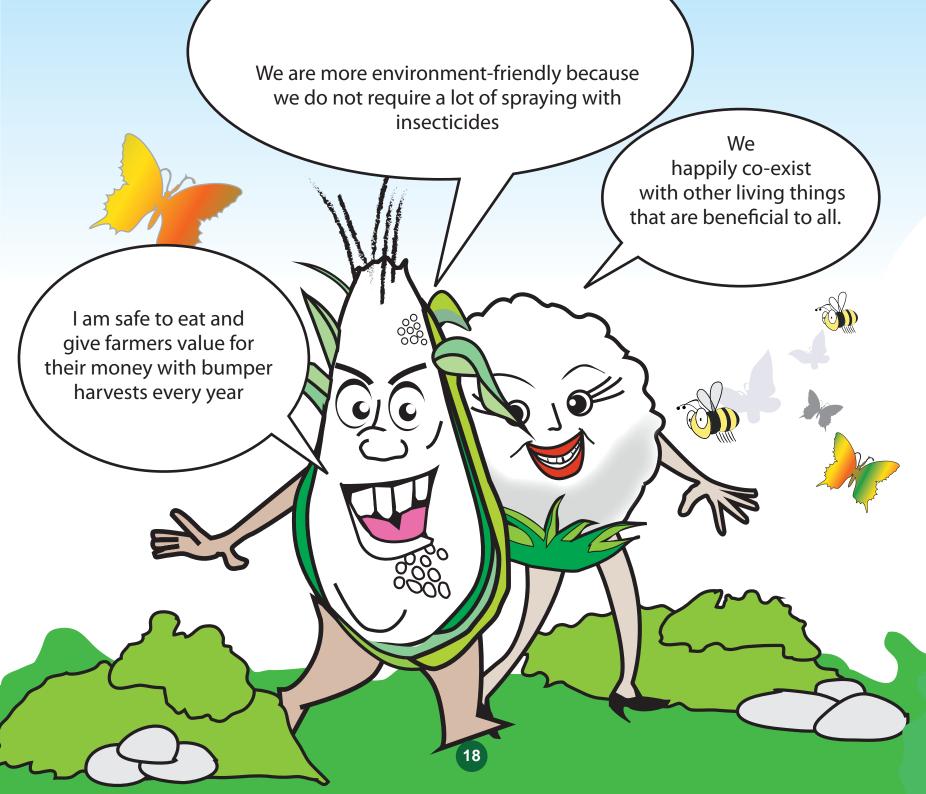


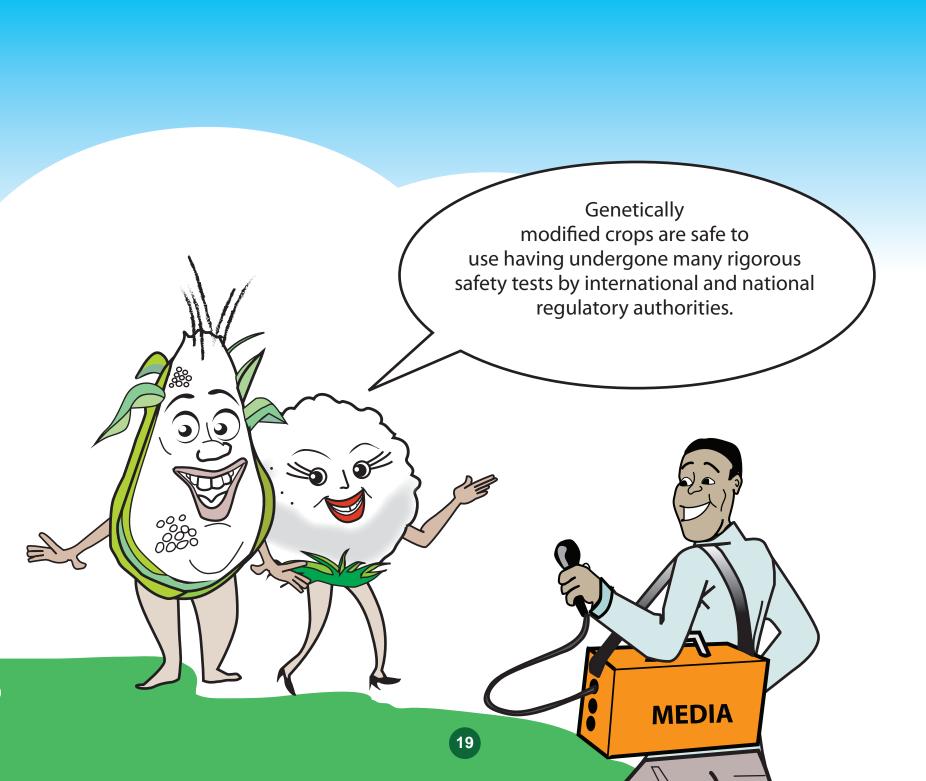
Before
we were genetically
improved, it was a great
struggle to survive pests and
diseases that made us look
miserable. Our farmers suffered
poor harvests every year.

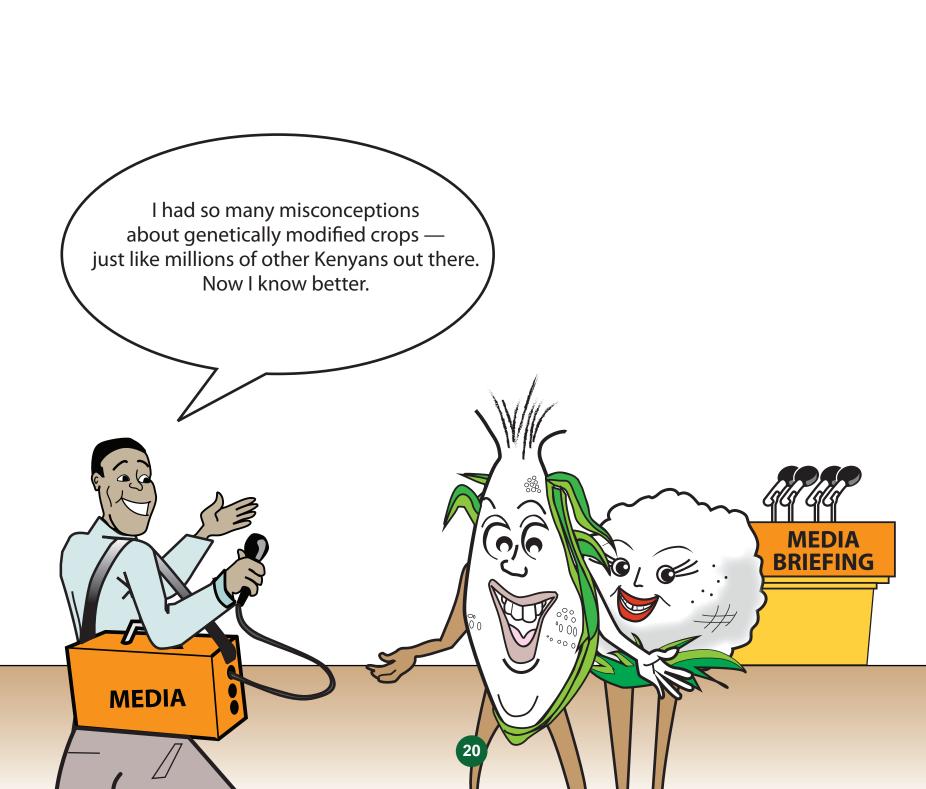


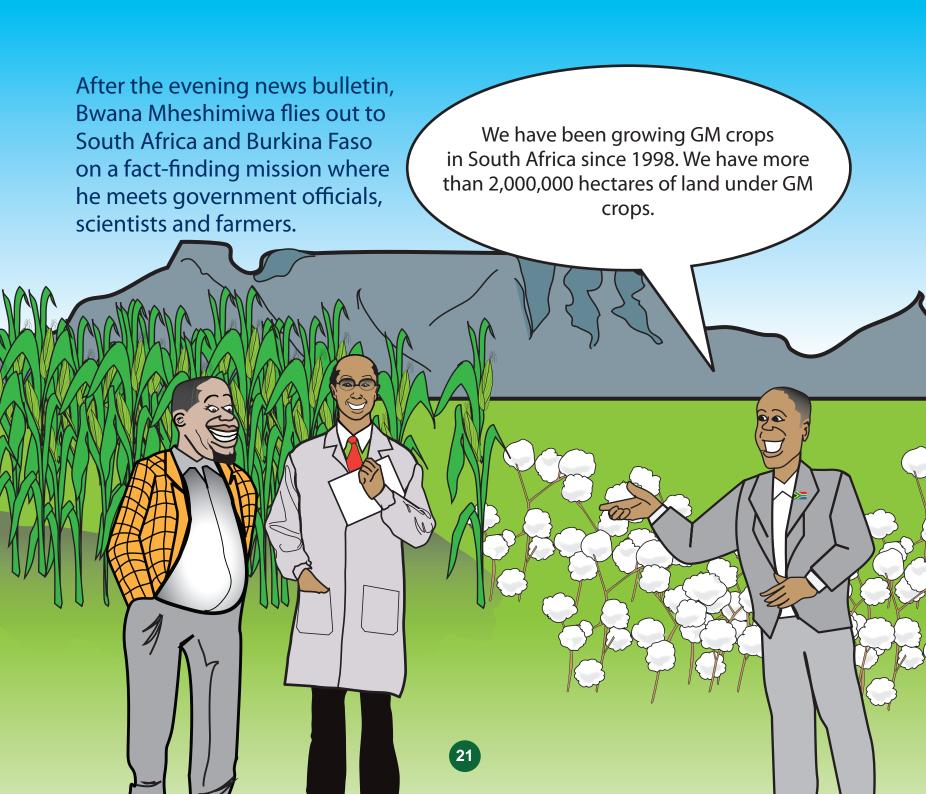


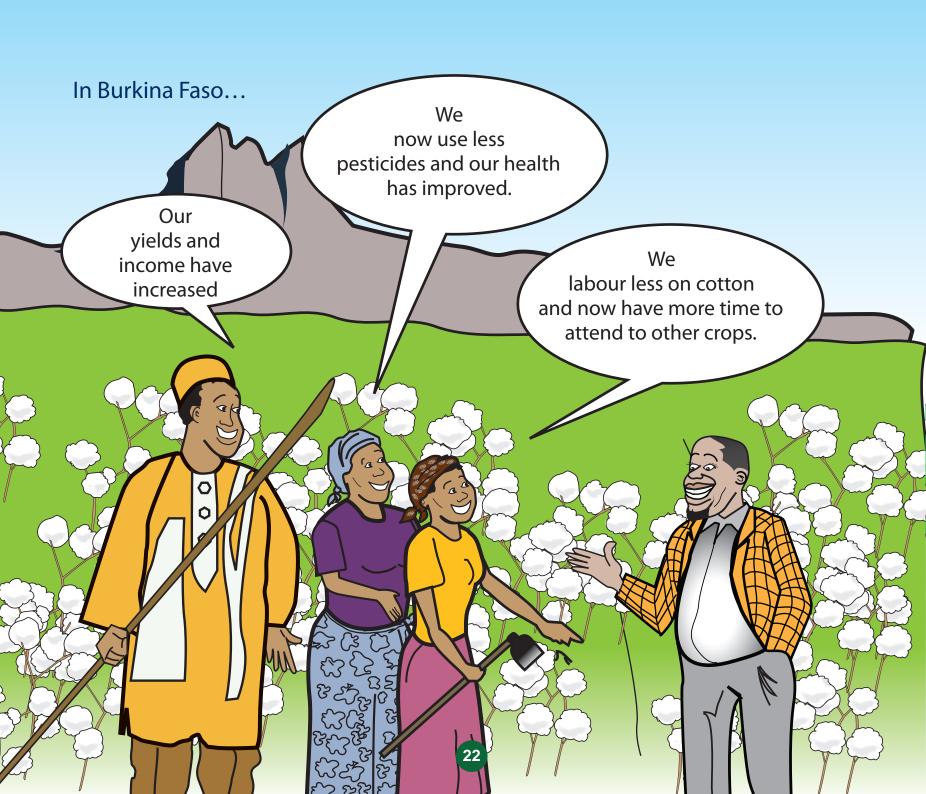




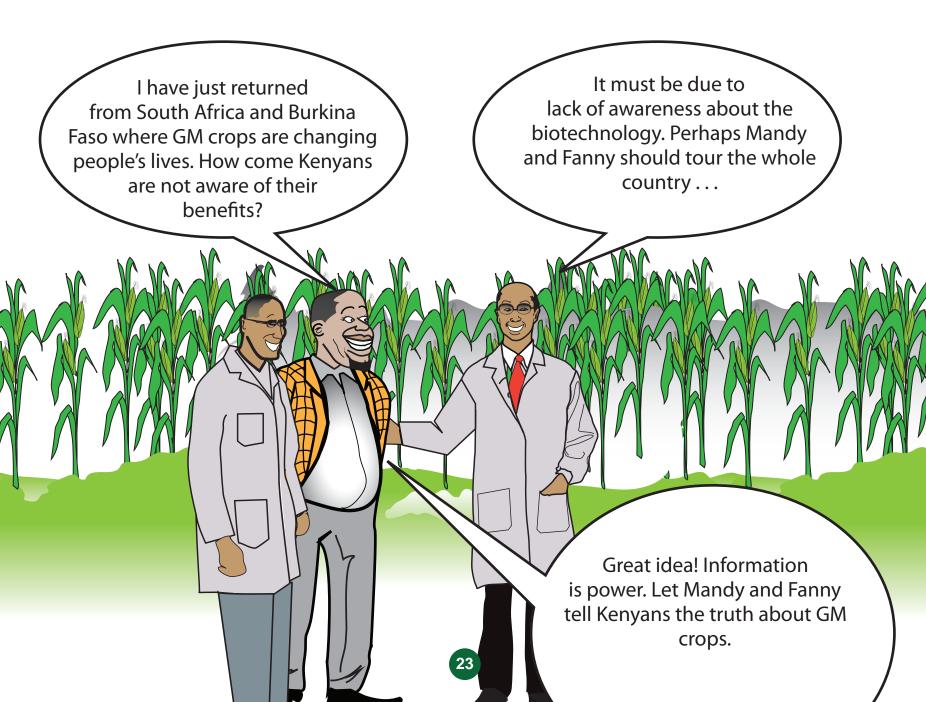


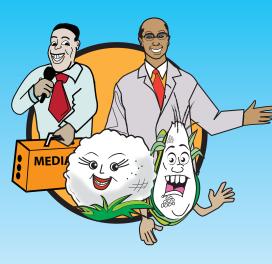




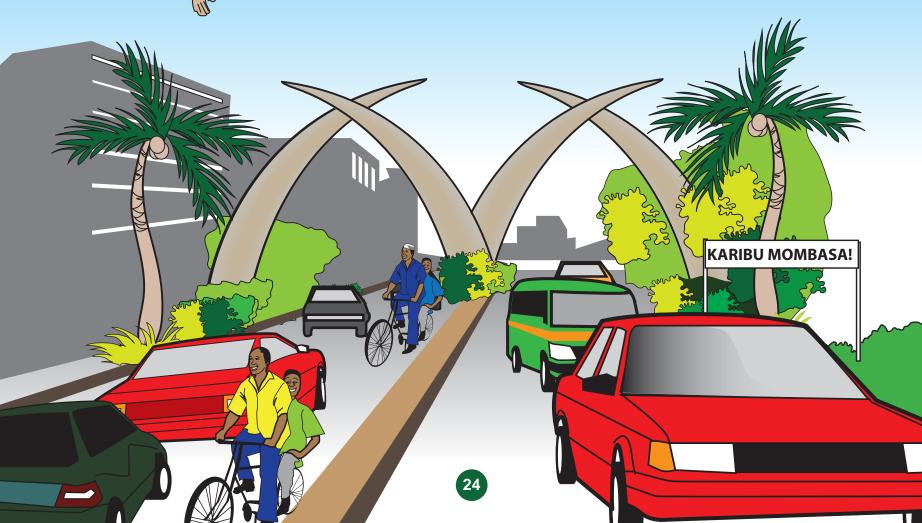


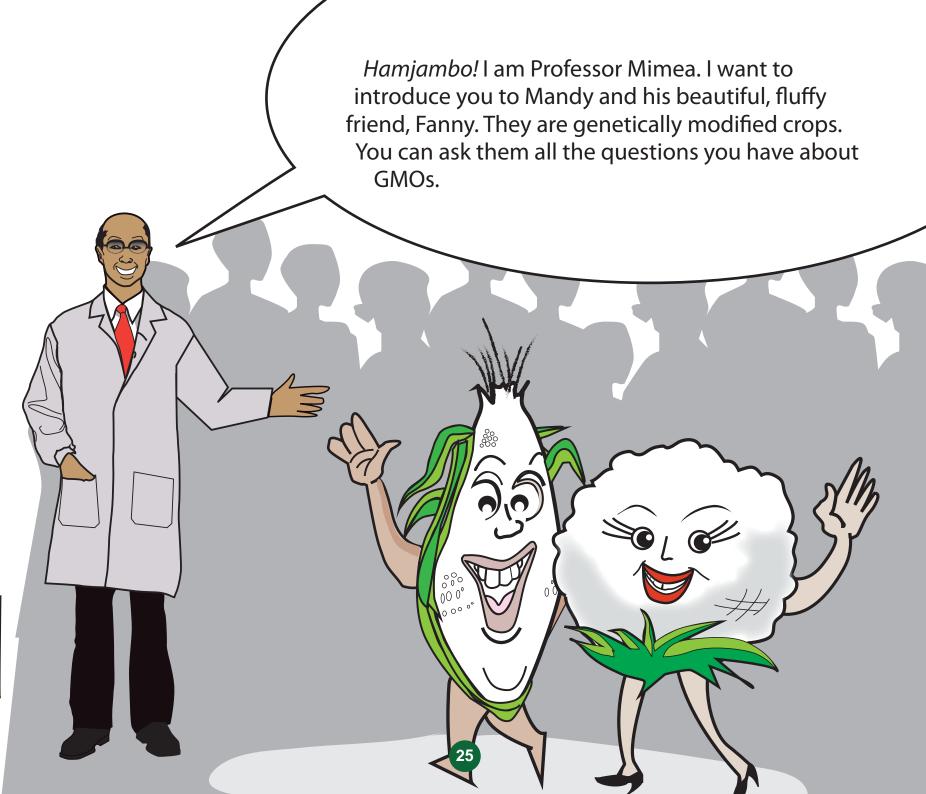
On his return to Kenya, Bwana Mheshimiwa heads straight to the national research institute

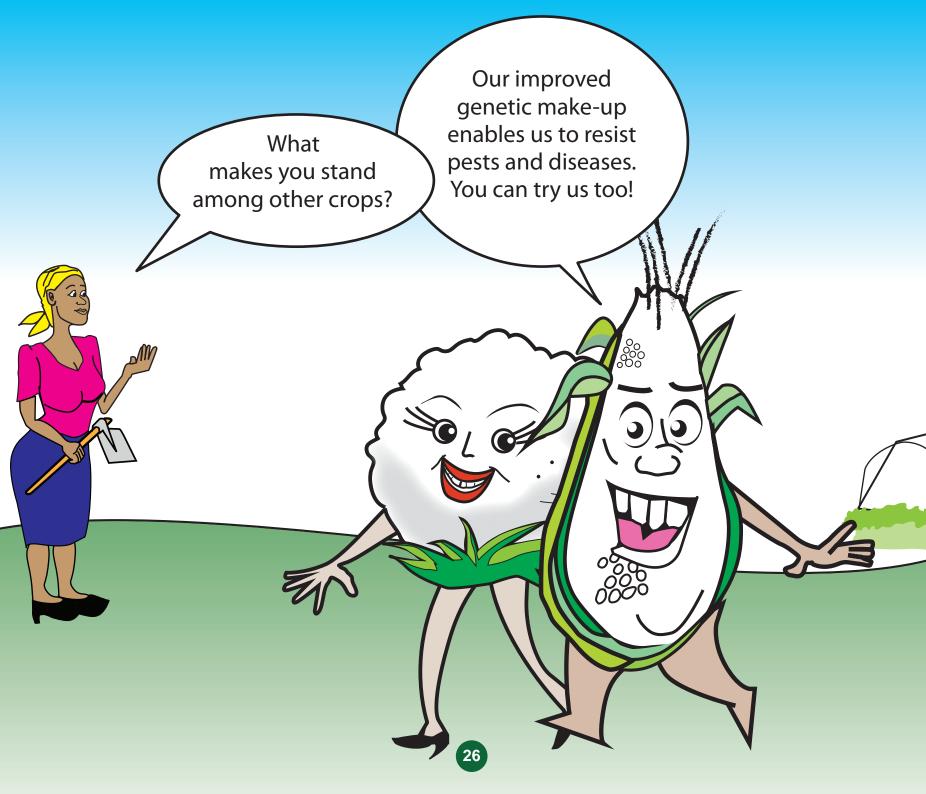




Professor Mimea, Mandy and Fanny start the national tours ...

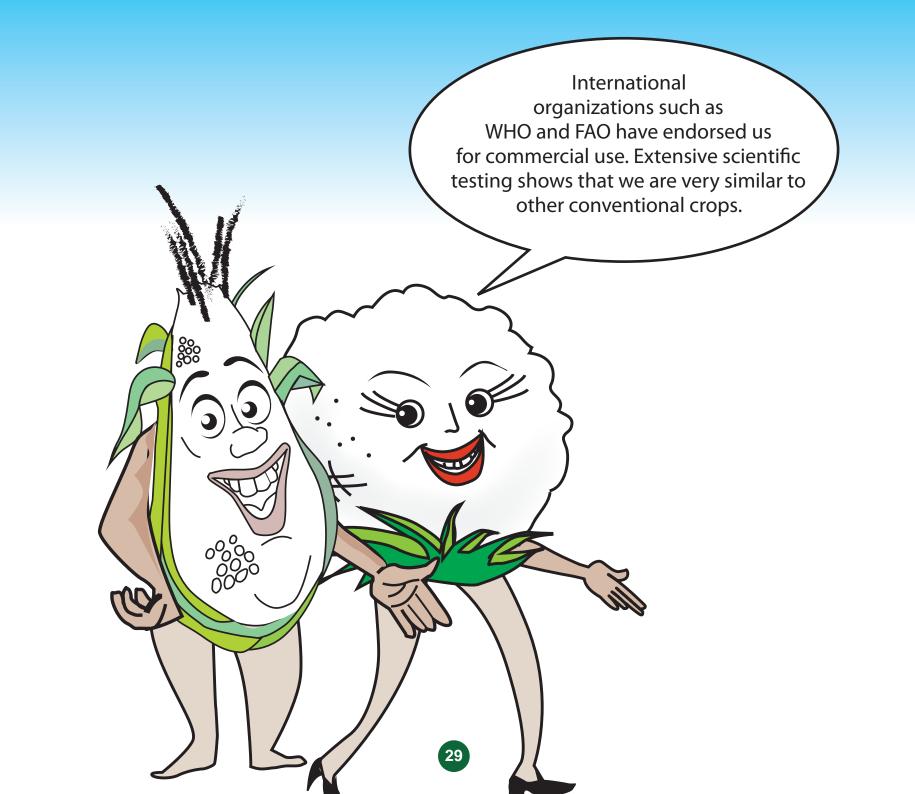


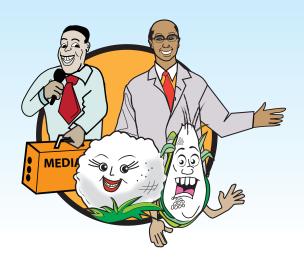




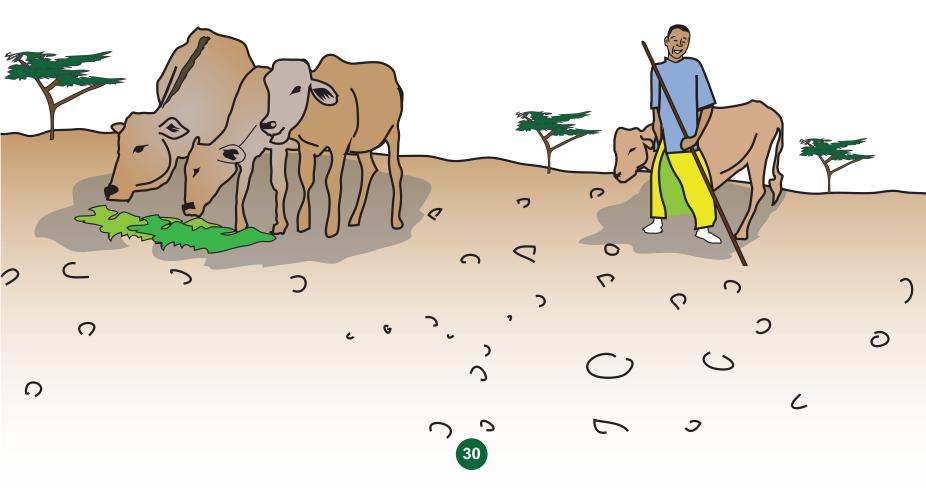




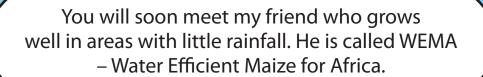




Mandy and Fanny tour Eastern and Central Kenya ...



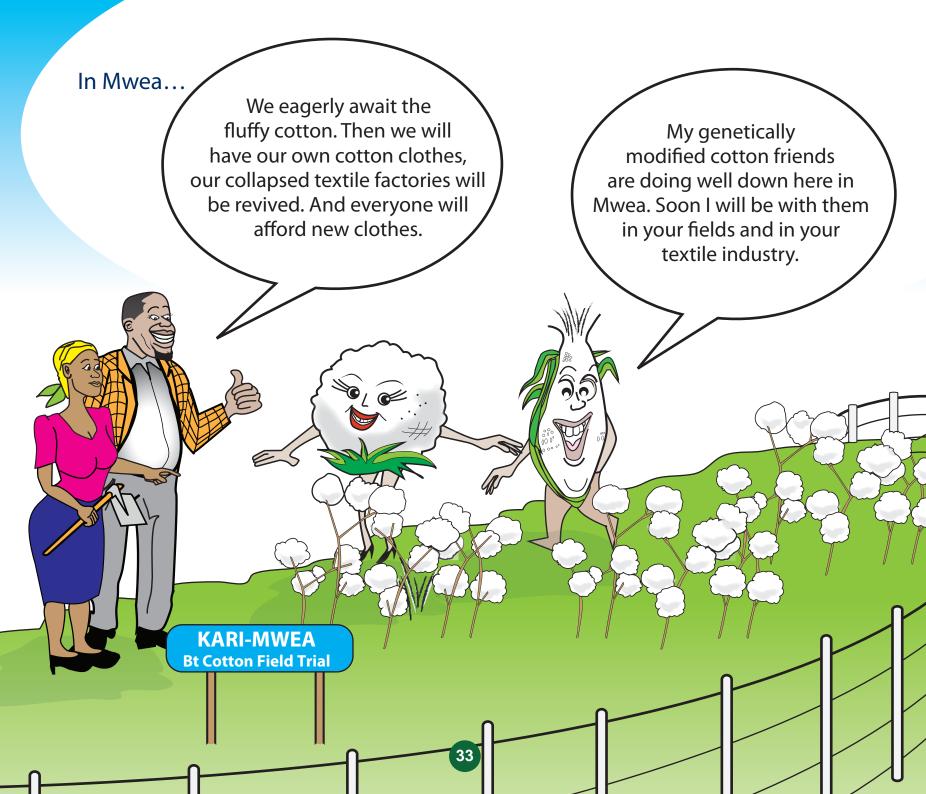


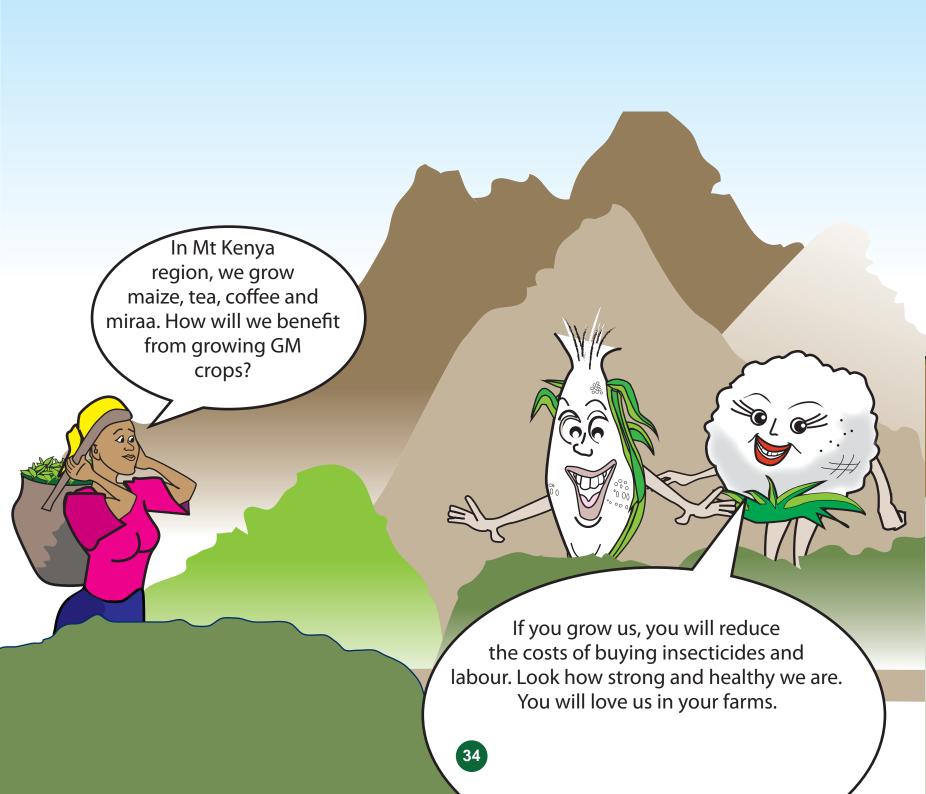


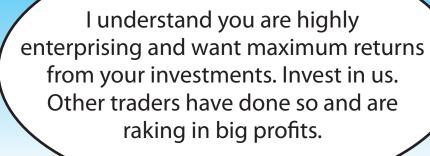
You know what? 80% of Kenya is arid and semi-arid! Mmmmh... WEMA would do the trick!

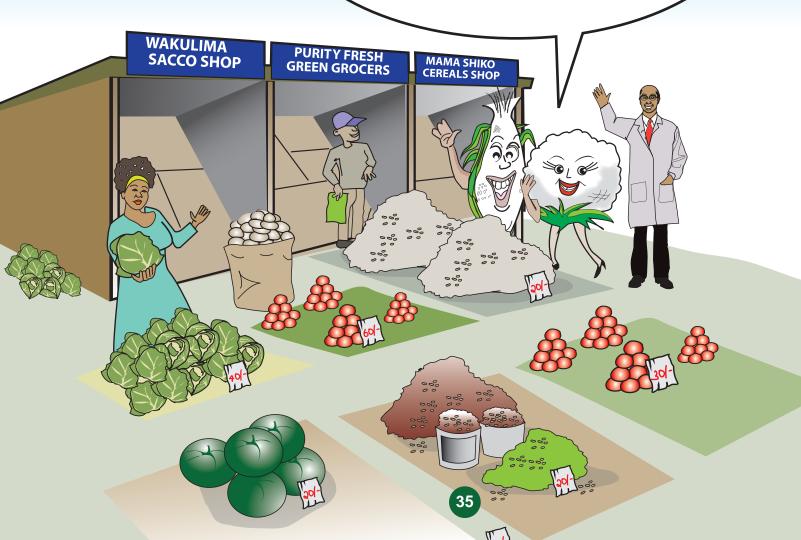




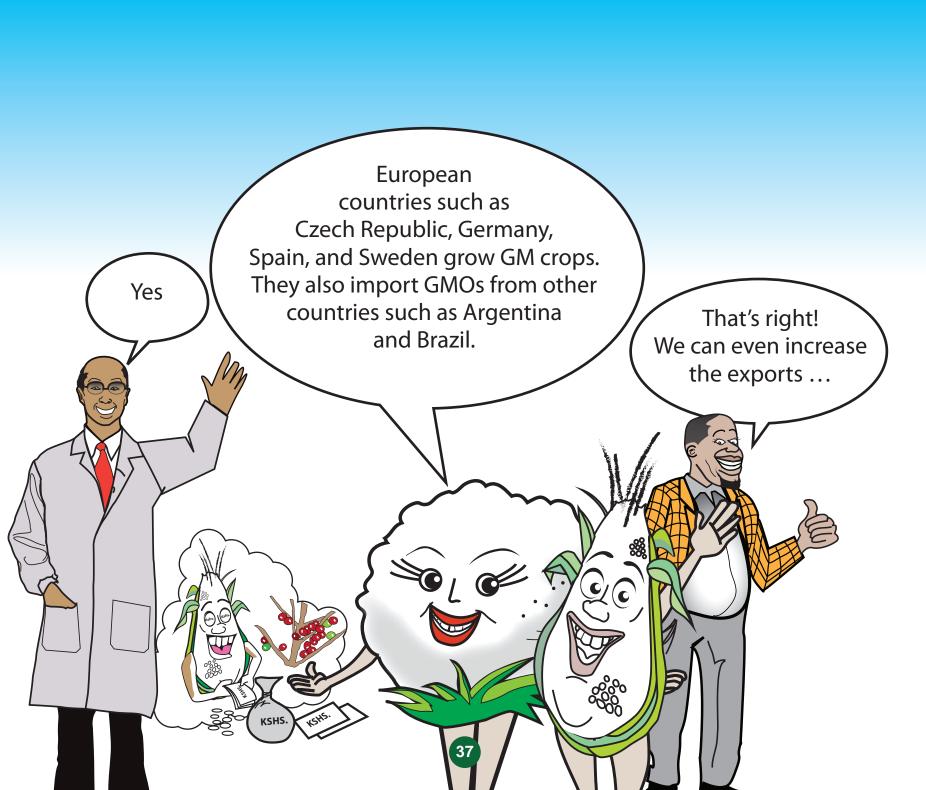




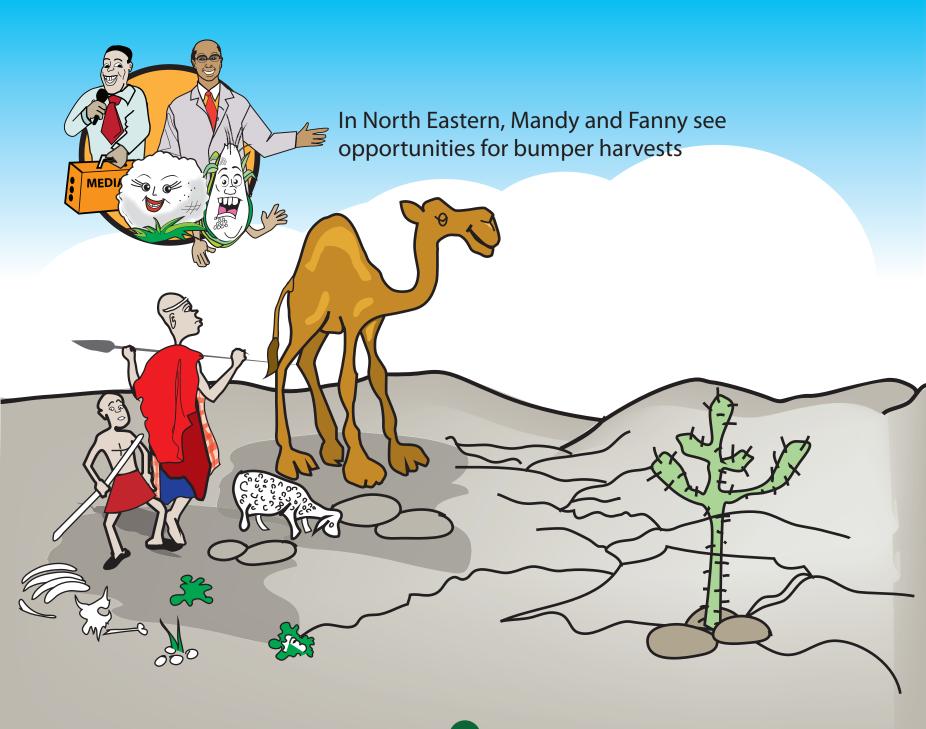


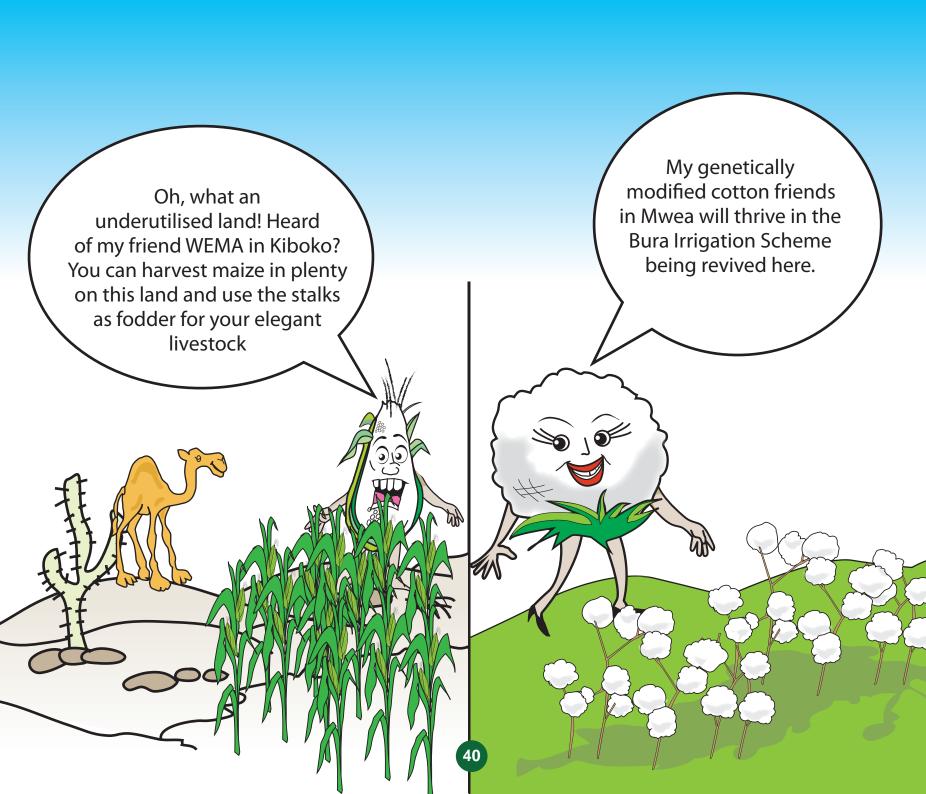


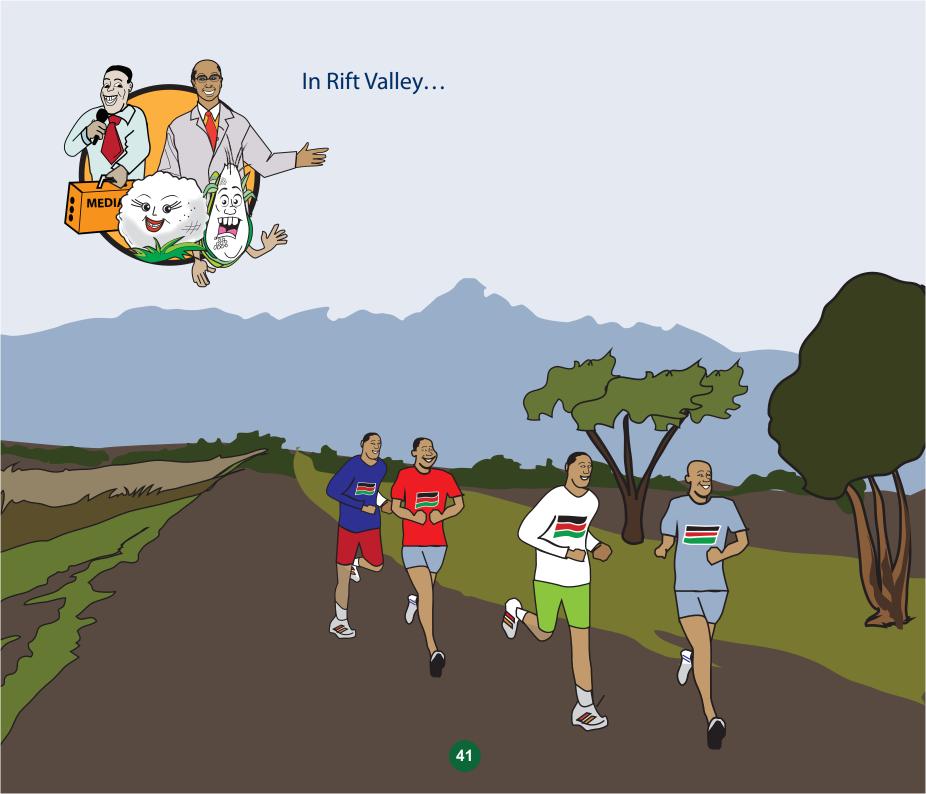


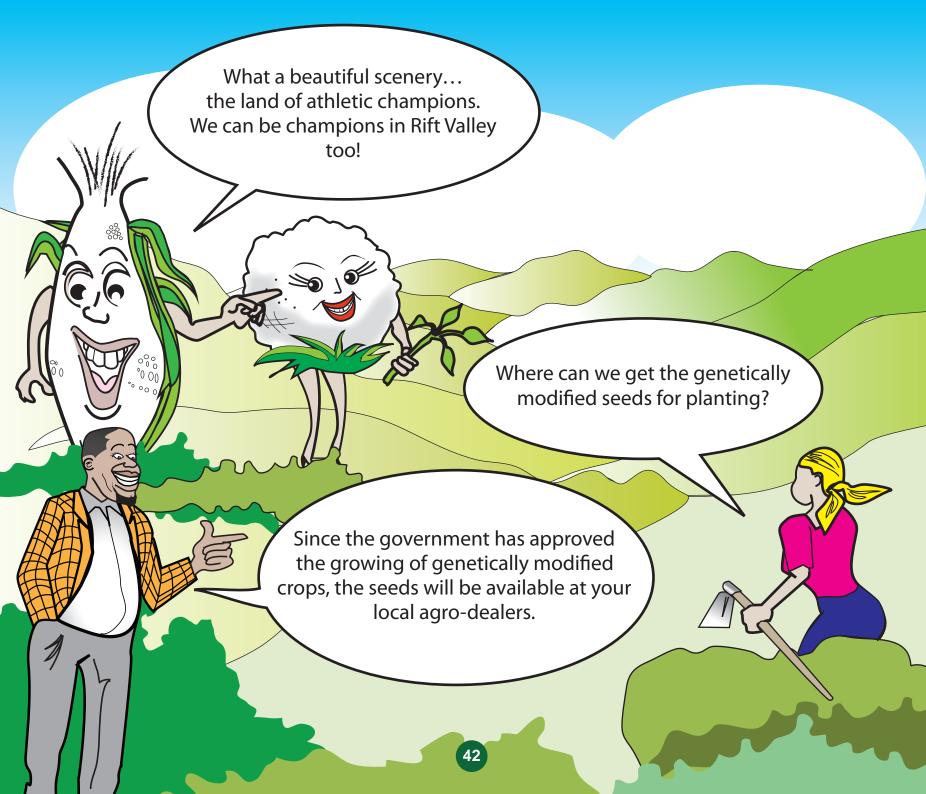




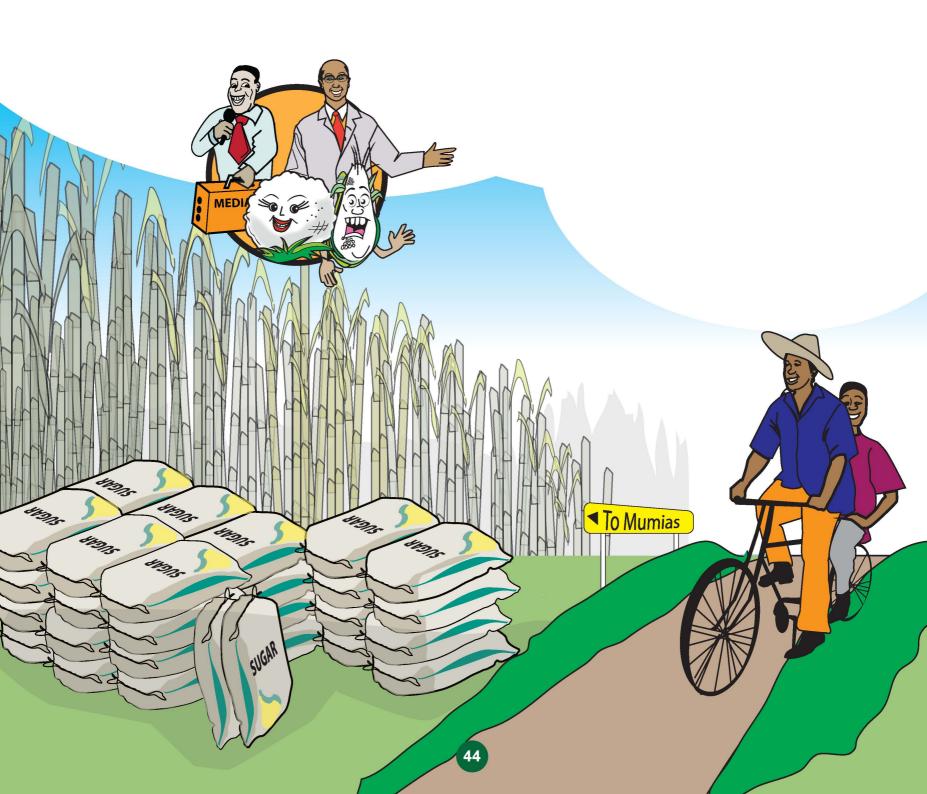




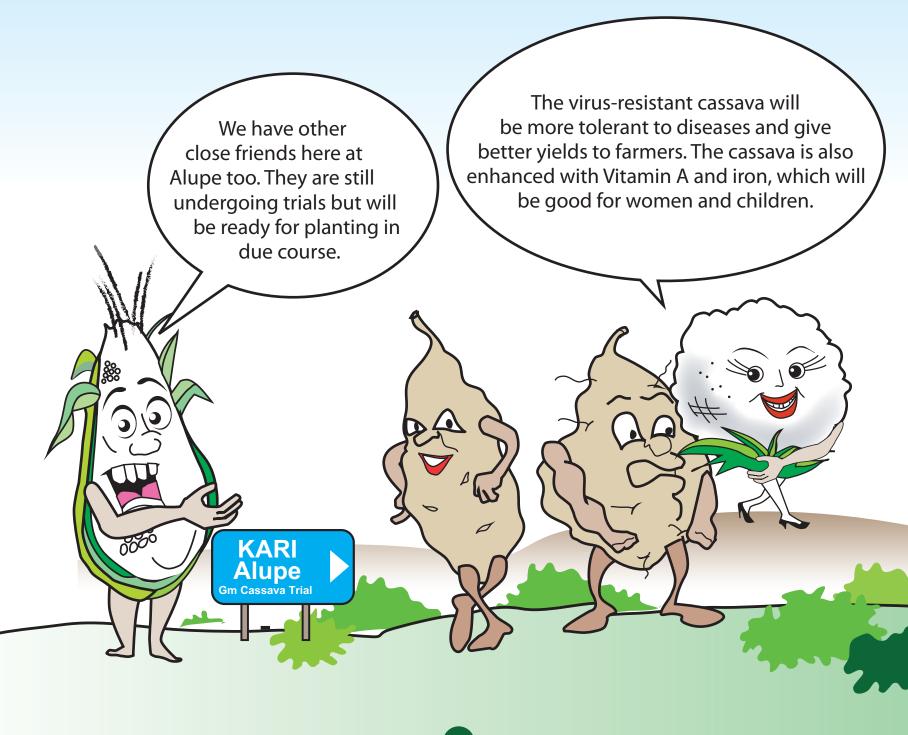




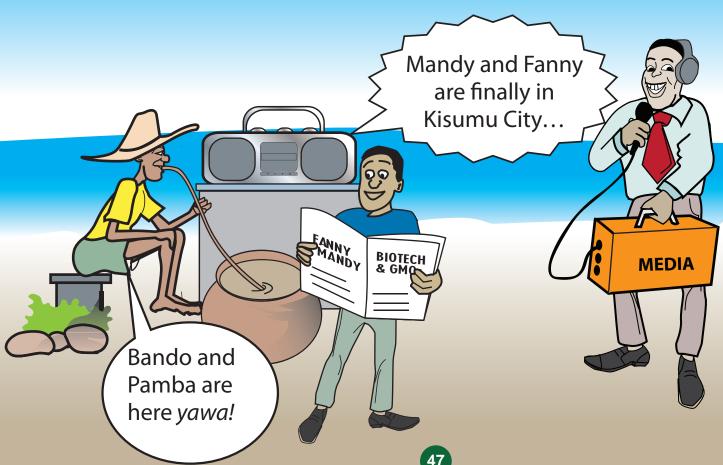


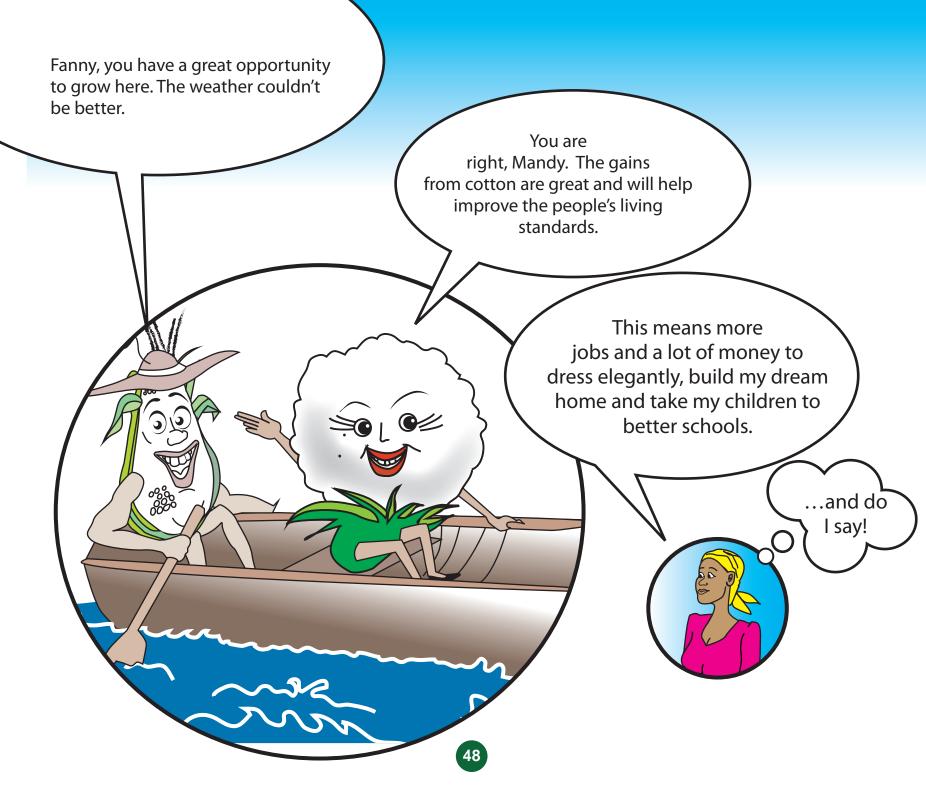


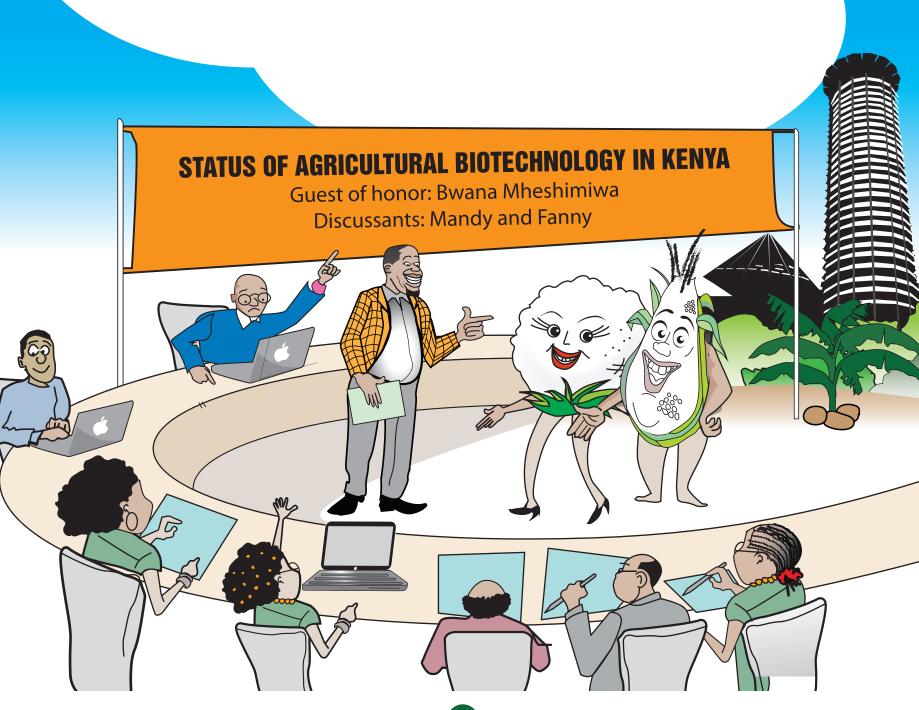


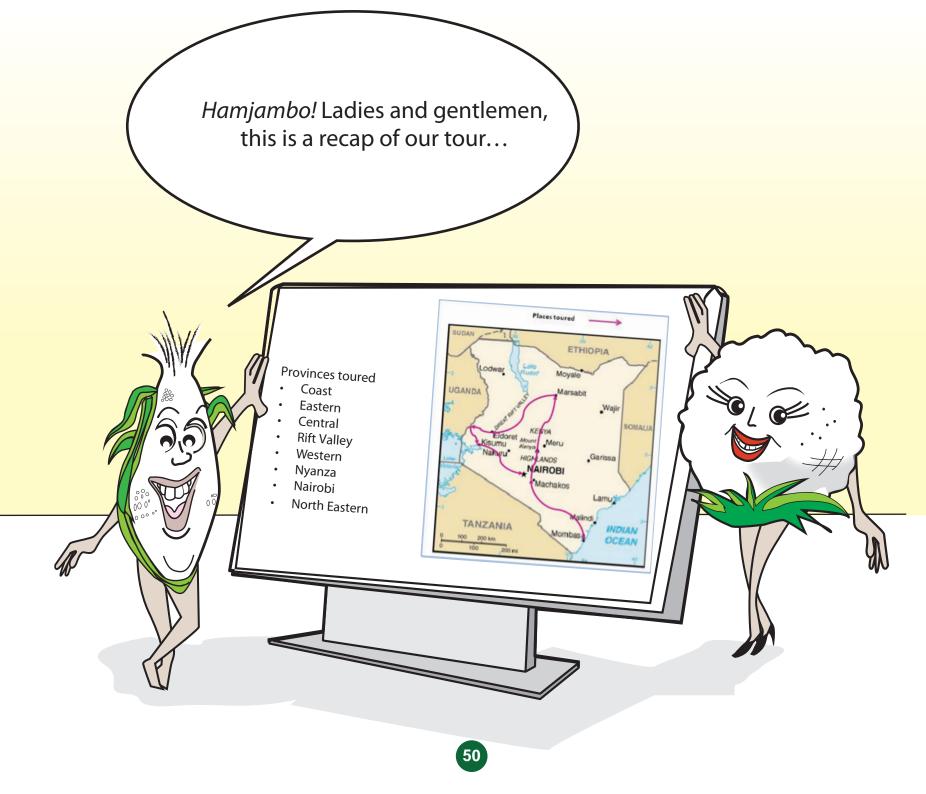


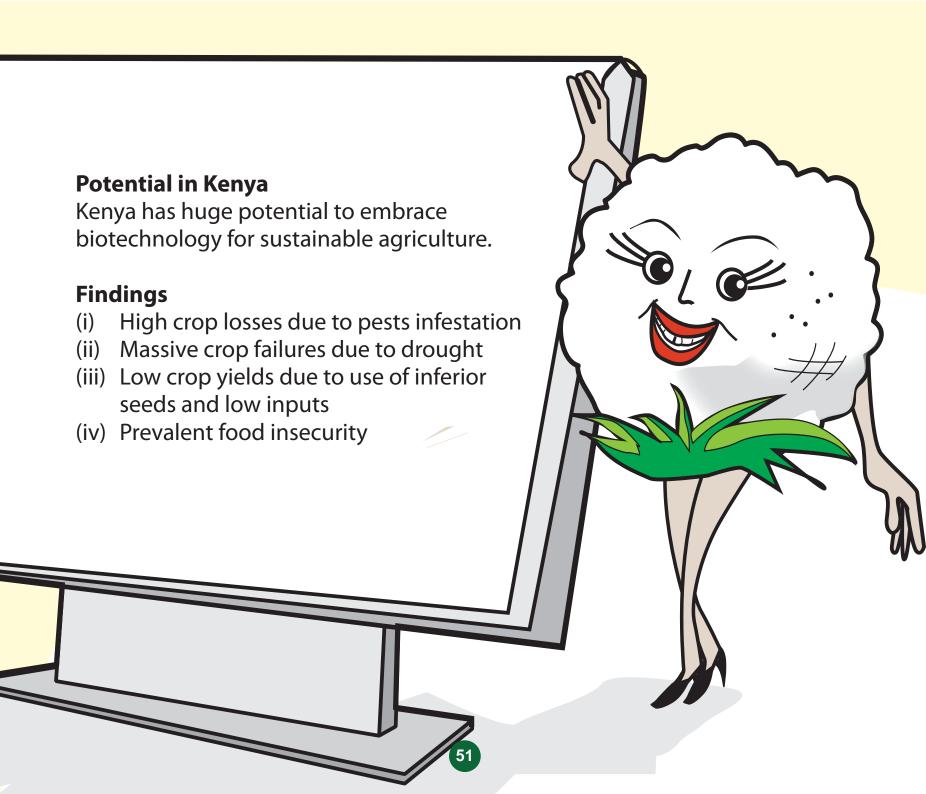


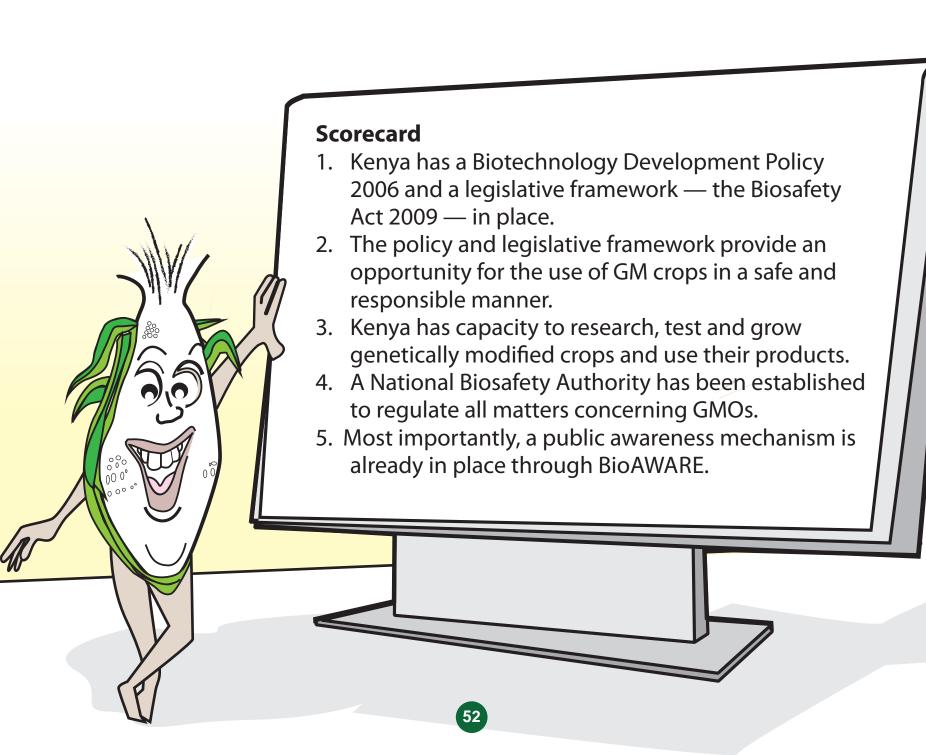


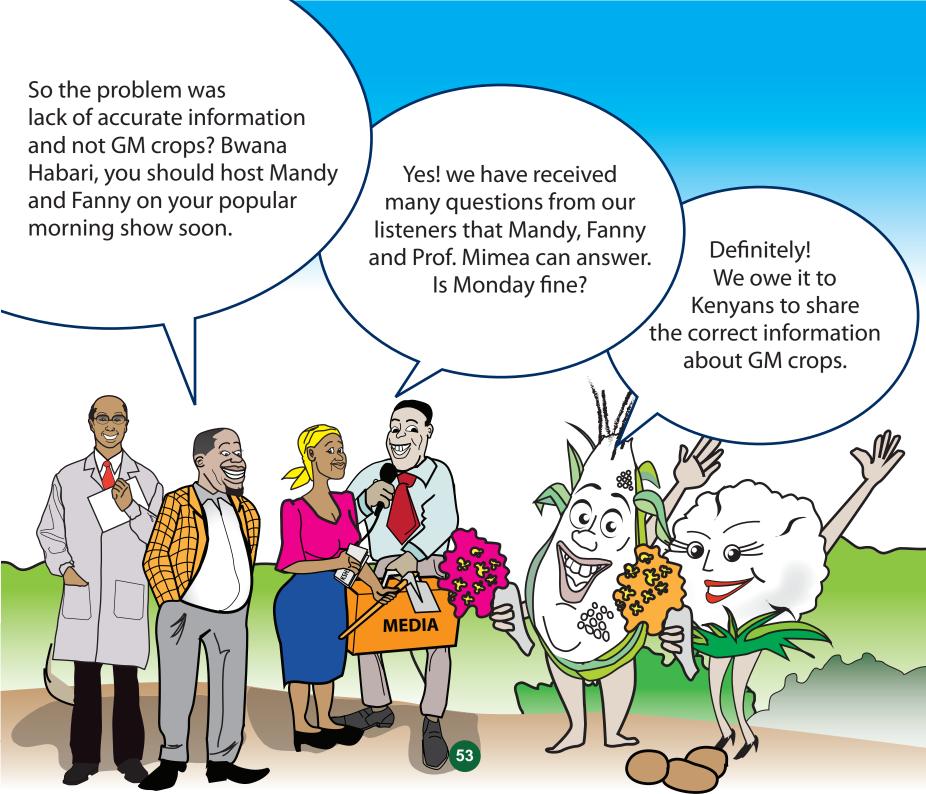












TEST YOUR UNDERSTANDING OF THE STORY

	Mandy is acrop	6.	In Kenya, how many GM crops are undergoing confined field trials and where?
2.	Fanny is acrop		
3.	What is a genetically modified crop?	7.	Name two benefits of GM Crops
4.	Name four GM crops that are commercial worldwide		When did the Government of Kenya approve a Biotechnology Development Policy?
5.	Name the African countries with commer crops	rcialized GM 9.	When was the Kenya Biosafety Act enacted?
		10	. GM Crops are grown in European countries

