

SUCCESSES AND CHALLENGES IN IMPLEMENTING IPPC

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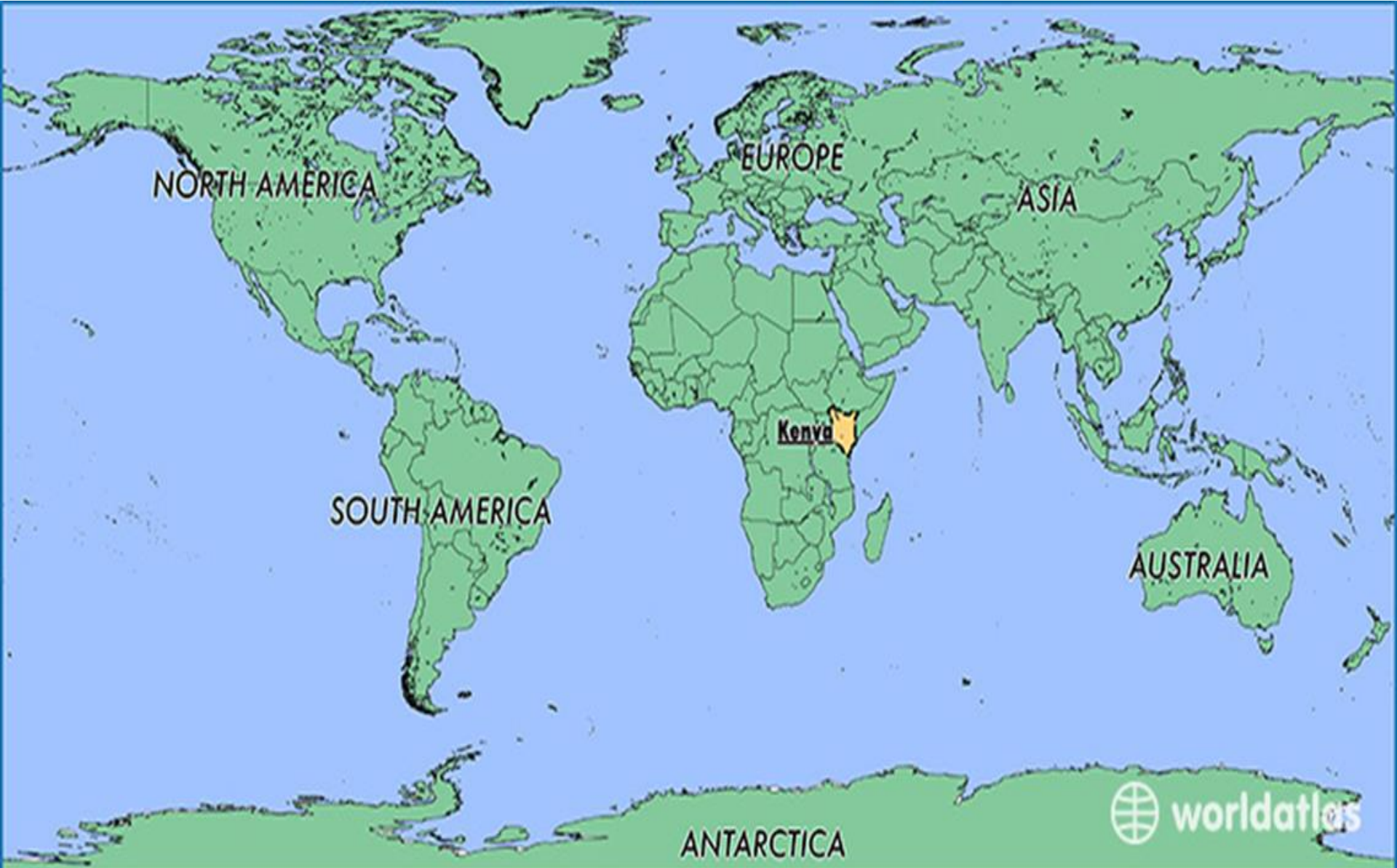
Website: www.kephis.org



Introduction

- ▶ Kenya lies across the equator in East Africa off the coast of Indian ocean.
- ▶ Kenya is famous for its white sandy beaches and for its wildlife and therefore is a great safari destination.

Kenya on the world map



Kenya Plant Health Inspectorate Service (KEPHIS)



- ▶ KEPHIS is Kenya's National Plant Protection Organization (NPPO)
- ▶ KEPHIS is the regulatory body in Kenya mandated to undertake science based regulation of agricultural Inputs and produce in order to assure quality.
- ▶ The objective is to promote food security and sustainable development in Kenya.

Mandates of KEPHIS



Broadly:-

- ▶ Phytosanitary Certification
- ▶ Seed Certification
- ▶ Plant Variety Protection
- ▶ Quality control of agro-inputs and produce



Kenya's Trade in Agriculture



- ▶ Tea: is Kenya's leading export crop. Kenya's tea is famous the world over for its consistent high quality throughout the year.
- ▶ Horticulture: Which comprises Cut flowers; mainly roses, fruits; mainly Avocado, Mango and Passion fruit, and vegetables; mainly French beans, Peas and broccoli among other products is second after tea.
- ▶ Coffee: Kenya produces arabica coffee; which is a high-quality yet mild coffee.
- ▶ Nuts: Macadamia, Cashew nuts among other products

Successes in Implementing IPPC



- ▶ Dr. Chagemu Kadera served as the CPM chairperson between 2006 and 2008.
- ▶ Dr. Esther Kimani is currently a member of the standards committee.
- ▶ Mr. Josiah Syanda is currently a member of the steering committee member of the E-phyto.

1.0 Center of Phytosanitary Excellence (COPE)



- ▶ COPE was officially launched in October 2010 and since then it has trained over 700 stakeholders.
- ▶ COPE's aim is to build phytosanitary capacity of Kenya and of African countries from existing strengths within African National Plant Protection organizations like KEPHIS and other collaborators.
- ▶ Trainings have included topics such as Pest risk Analysis and Pest Identification.

COPE Trainings



1. Training on tissue culture technology for sustainable production of sweet potato planting material for Central, Eastern & Southern Africa held in July 2015; attended by participants from Ethiopia, Uganda, Rwanda, Tanzania, Malawi, Zambia, Kenya and Mozambique.

Carried out in collaboration with International Potato Center (CIP)

COPE Trainings Cont.



2. Tuta Absoluta training workshop for KEPHIS inspectors, plant protection experts and tomato and potato growers held in November, 2015.

Facilitated by Dr. Yu Tong Qiu, a senior research entomologist from Wageningen UR.

2.0 Plant Import and Quarantine Regulatory System (PIQRS)



- ▶ This is an electronic import certification system that enables KEPHIS to track and manage imports into the country.
- ▶ It has replaced the manual import system and is a web based system that allows importers to apply for an import permit from the comfort of their offices.
- ▶ It also gives harmonized import conditions from any KEPHIS office.



3.0 Recognition of KEPHIS plant health laboratory as a COMESA regional reference laboratory of plant health.

History of Quarantine services in Kenya



- ▶ Quarantine services in East Africa started in 1931 at Amani, Tanzania.
- ▶ In 1951, the quarantine facility was transferred from Amani (Tanzania) to the present site at Muguga (Kenya).
- ▶ It served the three East Africa countries (Kenya, Uganda and Tanzania) until July 1977.
- ▶ Moved to Plant Quarantine Station in 1977 Under Ministry of Agriculture and later Kenya Agriculture Research Institute.
- ▶ Handed over to KEPHIS upon its Formation in 1996.

Functions of the Laboratory



- ▶ The Laboratory offers diagnostic and advisory services related to plant pests and diseases.
- ▶ Supports Phytosanitary decision making (e.g. risk analysis and pest identification) and therefore helps to prevent the of introduction and spread of plant pests, diseases and noxious weeds into Kenya.
- ▶ Facilitates surveillance through diagnostics.
- ▶ Offers advisory services to farmers and growers.

Current Diagnostic Capacity



Capacity has now expanded from 3 a few years ago to 7 fully functional and equipped laboratories namely:-

- ▶ Nematology,
- ▶ Entomology,
- ▶ Bacteriology,
- ▶ Mycology
- ▶ Virology,
- ▶ Molecular biology and
- ▶ Tissue culture



Enhanced sample preparation and extraction

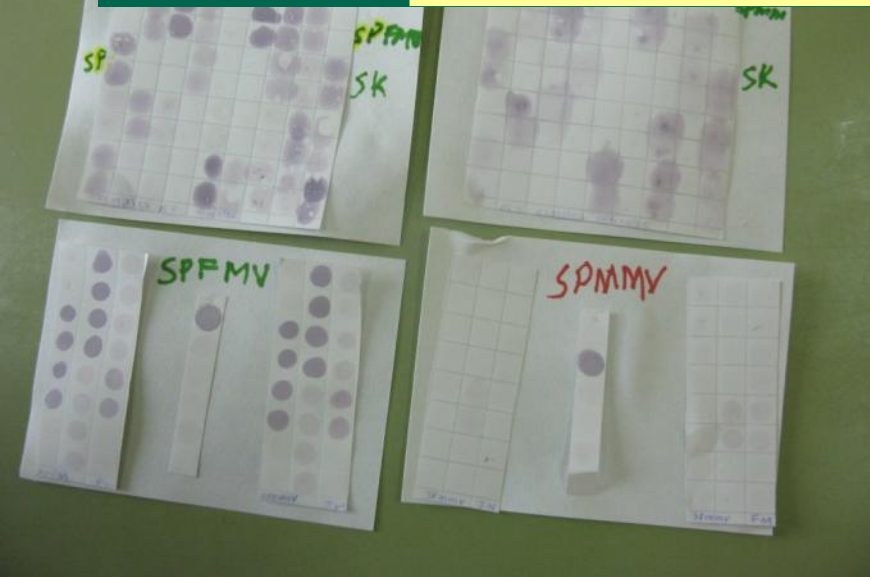
Before
Manual!



Now
Automated



Enhanced diagnostic capacity



Method validation



Germination chamber used in plant diagnostics



Fluorescence imaging



Incubated shakers

Automated and more precise ELISA plate readers



Before
Manual!



Now
Automated

Enhanced diagnostic capacity



X Ray imaging equipment



Barcoding



Reference collection





RECOGNITION OF THE LAB

- ▶ PQBS Laboratory has been designated as a Regional Reference Laboratory for COMESA for Plant Health

Functions include:

- ▶ Standardizing and Validating diagnostic procedures on behalf of satellite and national laboratories.

Funding sources

- ▶ United States Agency for International Development
- ▶ European union



4.0 International Phytosanitary Conference In Africa

- ▶ Kenya will for the first time host an International Plant Health Conference in September, 2016.

Objective:

- ▶ To provide a forum to share achievements, challenges and opportunities in application of phytosanitary measures towards assuring food security.
- ▶ Provide NPPO's with an opportunity to create linkages.
- ▶ Identify potential areas of collaboration.
- ▶ Share and develop solutions on phytosanitary issues.

Conference Themes



1. Import control and quarantine regulations.
2. Pest surveillance in phytosanitary systems.
3. Pest diagnosis.
4. Export phytosanitary certification systems.
5. Technologies and innovation in phytosanitary systems.
6. Capacity building.
7. Communication in phytosanitary systems
8. Emerging phytosanitary issues.

Challenges



- ▶ Emerging pests such as *Tuta absoluta* which call for Surveillance and capacity building of plant health inspectors.
- ▶ Kenya has had a few challenges with SPS notification which are being addressed with the National Notification Agency (NNA).

Commitment by the Government of Kenya

- ▶ The Government of Kenya continues to be committed to the implementation of the IPPC.



Thank you