United Nations
Food and Agriculture Organization

Experiences and Vision of FAO on Integrated Management of Banana Diseases

Fazil Dusunceli
Plant Production and Protection Division
Food Chain Crises Management Framework - EMPRES
Global Network

- Regional Offices
- Subregional Offices
- Country Offices
- Liaison offices
- Multidisciplinary teams
FAO`s work:

- Governed by the member countries
- Normative work in food and agriculture
- Technical assistance
- Emergency prevention support
Strategic Objectives

**Goal:** End hunger, malnutrition and poverty

- Eradicate **hunger** malnutrition
- Improve agricultural **productivity**
- Reduce rural **poverty**
- Develop efficient agricultural and **food systems**
- Increase **resilience** of livelihoods from disasters
Emergency Prevention System (EMPRES)

- Emergency prevention support to countries in all agriculture and food related areas

- Food Chain Crisis Management Framework:
  - Food related risks;
  - Animal health;
  - Plant health
    - Transboundary and Emerging Plant Pests and Diseases
EMPRES Plant

Regional Programmes / Projects:
- South, East and Central Africa
- Central America & Caribbean

Global Programmes
- Wheat Rust Diseases (Africa, Near East, Asia)
- Fusarium Wilt Disease of Banana (Asia, Africa, Latin America)

Interventions
- Monitoring, surveillance and early warning
- Prevention
- Preparedness and planning
- Timely response
Banana diseases work portfolio

- Central America & Caribbean:
  - Black Sigatoka,
  - Fusarium wilt (Foc) (Workshop on 5-9 May in Trinidad and Tobago)

- Africa:
  - Bacterial wilt (BXV)
  - Bunchy top Virus (BBTV)
  - Fusarium wilt (Foc)

- Global:
  - Fusarium wilt
Banana: Central America & Caribbean

- Black Sigatoka:
  - Sensitization and training
  - Integrated management & Fusarium wilt
  - Regional collaboration
Fusarium Wilt

- Sensitisation
- Surveillance and Diagnosis
- Capacity building
- Contingency plans
- Regional collaboration

FINAL REPORT

Regional Sensitization Seminar and Workshop on the Prevention And Diagnostic of Fusarium Wilt (Panama Disease) of Bananas and Plantains Caused by *Fusarium oxysporum* f. sp. *cubense* – Tropical Race 4

Trinidad and Tobago

27 April - 10 May, 2014

Consultants / Facilitators:

Dr. Luis Perez-Vicente, INISAV, Ministry of Agriculture, Cuba
Dr. Miguel A. Dita, EMBRAPA, Brazil
Mr. Einar Martinez de la Parte, INISAV, Ministry of Agriculture, Cuba
East and Africa: Banana Xanthomonas Wilt (BXW)

- Spread:
  - Infected planting materials
  - Insects
  - Farm tools
  - Animals

Source: Kubiraba et. al.
East and Africa: Banana Bunchy Top Virus

Spread

• Planting materials (suckers, corms and uncertified tissue culture plants)
• Aphids

BBTV infected plants are severely stunted, unproductive and eventually die.

Source: Kumar et. al.: https://www.ippc.int/pest-identity-eppo/banana-bunchy-top-virus-bbtv00
East and Central Africa

- **Regional project to combat banana diseases**

- **Regional platform for plant pests and diseases**

GREAT LAKES REGION
(Burundi, Democratic Republic of the Congo, Rwanda, Tanzania, Uganda)

“Disaster preparedness for food security risks in the Great Lakes Region – improving responses to the threat of banana diseases”

OSRO/RAF/117/BEL
Sensitization / Awareness

Hon. Minister of MAAIF inspects fields previously affected with BXW

Hon. Minister of MAAIF, representing HE to Launch revised BXW control strategy for Uganda – 2013 in Bukiro, sub-county, one of our several communities of good practice successful in BBW control

Lessons were incorporated in Uganda’s revised strategy for BXW control nationwide

Source: Kubiraba et al - Uganda
Farmer training / Farmer Field Schools

- Burundi

- Uganda

Implication des autorités locales ayant permis l’élaboration et l’application des lois locales

Remise des certificats par le Ministre
Approaches promoted

- Multi sector engagement in planning
- Integrated management
- Crop hygiene
- Clean planting materials
- Uprooting infected plants
- Sterilisation of tools
- Removal of male buds
Region wide activities

- Regional collaboration
  - Regional platform (with cassava and maize)

- Surveillance and sharing of information

- Experience sharing
Progress on Development of a Global Programme on prevention and management of Fusarium Wilt Disease of Banana

Fazil Dusunceli
Agriculture Officer, Plant Production and Protection Division Workshop - Regional Platform on Plant Pests and Diseases, Kigali, 29-31 October 2014
Fusarium wilt – Foc TR4

- Information note
- Internal and external consultations
- African consortium workshop
- World Banana Forum task force dialogue
- Bioversity, IITA +
- Emergency support to Mozambique
- Consultation workshop on 9-10 December
Future emphasis

- Strengthen international collaboration,
- Policy development, awareness and advocacy,
- Surveillance, early warning and timely response,
- Implementation of phytosanitary measures,
- Support for development and deployment of IPM methodologies and resistant cultivars,
- Capacity development
Emphasis at national level

- Strengthening coordination and linkages among institutions through inclusive processes,

- Engagement of all stakeholders particularly National Plant Protection Organizations and planning agencies,

- Sustainability and ownership issues: Too much dependence on external support
Future emphasis

- Advance **planning** rather than following outbreaks: Risk analysis, monitoring, early warning and implementation of preventive measures.
- Improvement of **phytosanitary** legislation and regulations and their implementation.
- **Seed** production and certification systems
- **Strengthening capacities**
Emphasis: Sustainable intensification

- Ecosystem approach
- Engage all players
- Planning
- Monitoring
- Ownership
- Focus on prevention

Grow more with less
Thank you