

# Global Programme on Fusarium Wilt Disease of Banana

"We have no bananas today?"

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#### The Crop:

- 8<sup>th</sup> most important crop worldwide
  - 4th in the LDCs
  - the most exported fruit crop
- Annually
  - 17 million tonnes exported
  - value: USD 7 billion
- 400 million people worldwide depend on it either for food or their livelihoods









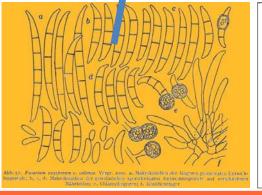
# The disease: Fusarium wilt (Panama disease)

- Fungal disease
- Soil borne
- No effective eradication

#### A new race:

**Tropical Race 4 (TR4) affecting Cavendish** 





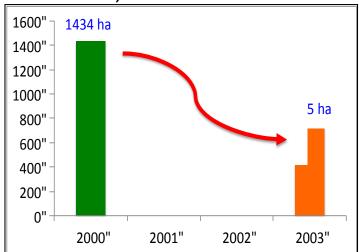




#### TR4 – Impact:

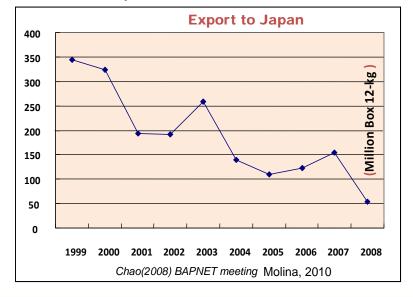
- Race 1: wiped out <u>Gros Michel variety</u> in 1900s
  - Estimated losses: USD 2.1 billion
- TR4: production area in West Sumatra, Indonesia decreased by half
  - Estimated losses: USD 134 million/year
- TR4: exportation of Taiwan province of China to Japan decreased by 85%

Indonesia, West Sumatra



(West Sumatra, Horticulture Processing and Marketing Department, 2005)

Taiwan province of China







#### **Threat:**





This area is under attack by Race 1 of Panama disease.



Problem Area (Tropical Race 4)

This area is under severe attack of the new Tropical Race 4 (TR4) strain of Fusarium.



Banana daily diet area

This area is on risk. The farmers here made the banana their living.

### Current alarm: Mozambique

3 000
families
and
neighbourhood











#### **Relevance to FAO?**

**Goals:** Alleviate food insecurity, poverty and improve livelihoods

Strategic Objectives of FAO	Banana and the disease
S01 Eradicate hunger & food insecurity	Banana is a source of food
SO2 Increase <u>production</u> sustainably	Can cause total loss on Cavendish
SO3 Reduce rural poverty	Banana is source for livelihoods
SO4 Sustainable food systems	Global challenge
SO5 Increase <u>resilience</u>	New records, new risks expansion







#### Recent efforts and initiatives:

#### **FAO workshops and initiatives:**

- Awareness raising and advocacy
- Caribbean workshop in Trinidad & Tobago
- East Africa workshop in Kenya and Rwanda
- Regional project for Latin / Central America
- Emergency project in Mozambique
- Other requests



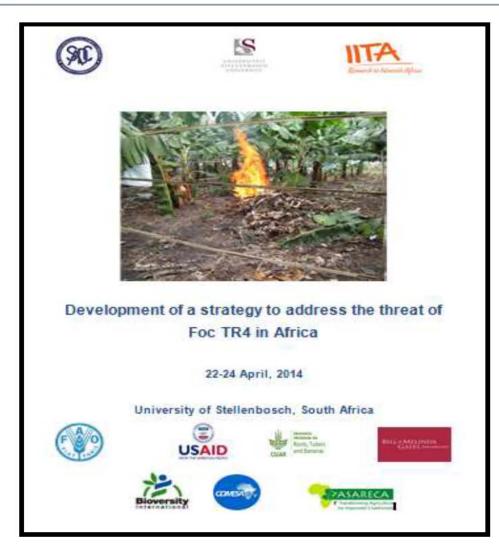






#### **African Consortium for Foc TR4**





- To provide factual and accurate information on the Foc TR4 outbreak in Mozambique, and its threat to Africa, in a transparent and objective way
- To develop a strategy to protect bananas in African against Foc TR4
- To initiate activities to address the threat of Foc TR4 on the African continent





# World Banana Forum's Task Force consultations:



#### Objectives:

- Encourage global <u>collaboration</u> among interested parties;
- Ensure <u>dissemination</u> of relevant information onTR4;
- Ensure that <u>prevention</u> strategies to avoid long distance spread;
- Support <u>existing</u> initiatives.
- Members: farmer organizations, research institutions, companies, NGOs & governments
- Secretariat: Based at FAO operating at global level
- www.fao.org/wbf







#### Recent efforts and initiatives:

#### Other International initiatives

- Bioversity International,
- International and regional networks,
- International Atomic Energy Agency (FAO / IAEA lab)
- Private sector
- Efforts by National Institutions and Universities
- +







#### Follow up:

### A framework to promote

- Dialogue,
- Synergy,
- Collaboration and
- Actions

# The challenge

Global programme

- Ongoing <u>efforts</u>
- Internal consultations
- International dialogue and consultations
- Calls for assistance





#### **Actions Needed:**

- Management
  - Development and deployment of <u>resistant varieties</u>
  - Crop management tools
- Prevention, preparedness and emergency response
  - Cooperation & strategy
  - Empowerment of countries







#### Major thematic areas and objectives:

- Policy and planning support, advocacy, awareness raising,
- Monitoring, surveillance, risk analysis and early warning
- Guidance on <u>legislation</u> and implementation of <u>phytosanitary measures</u> and standards
- Development & deployment of <u>resistant cultivars</u> and IPM tools
- Training and <u>capacity</u> building in countries at risk
- International <u>collaboration</u> and knowledge exchange



#### **Internal Capacities**

#### **HQ Units:**

- AGP Plant Production and Protection Divisions
- IPPC International Plant Protection Convention
- FCC Food Chain Crises Framework
- TCE Technical Cooperation Department
- EST Market and Trades Division IGG on Tropical Fruits and Bananas
- WBF World Banana Forum
- IAEA International Atomic Energy Agency
- OPC Office o Partnerships and Advocacy

#### Decentralized Offices:

- Africa: RAF, East Africa, South Africa, Central Africa
- Near East: Cairo, Tunis
- Latin America: Central America, Caribbean
- Asia Pasific: RAP Bangkok







#### Partners / Collaborators:

- External Partners
- International organizations / initiatives
- International and regional networks
- Regional Plant Protection Organizations (RPPO)
- Industry, producer organizations and NGOs
- Advanced Research Centers, Universities
- National Institutions+





#### The way forward:

- Awareness raising activities at all levels,
- Respond to <u>Emergencies</u> and local requests,
- Consultation with stakeholders and potential partners,
- Resource mobilization,
  - <u>Public Private partnerships</u> and
  - <u>south south</u> cooperation modalities
- Implementation
- Work together
- Technical discussion: 8 October 2014; 09.00-11.00; Room D838
- Technical consultation workshop (9-10 December 2014)





## Work together to improve food security and livelihoods of 400 million people.

