

Food and Agriculture Organization of the **United Nations**



****** Plant Protection

Department for Environment Food & Rural Affairs

Facilitating Safe Trade and Economic Development

Leveraging on ICT for safe trade and economic development Kenya experience

London, 21 – 23 September 2022 **International Plant Health Conference**



Presentation Outline

- Introduction
- IPPC ePhyto Solution
- Country Experience Kenya
- Benefits of IPPC ePhyto solution
- Challenges implementing electronic certification (ePhyto)



Introduction

- We all know importance of safeguarding our agriculture, forests and environment from invasive species
- Application of ISPMs provides harmonized approach on implementation of global plant health systems
- ISPM 12 provides the framework for NPPOs to communicate the phytosanitary status of a consignment in secure, authentic and verifiable manner



Apple snail – invasive species

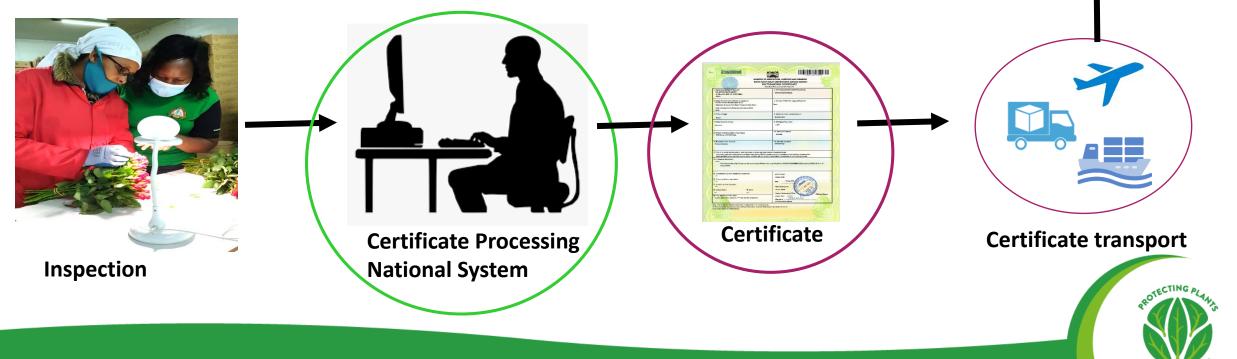


Plant health laboratory

ePhyto Solution

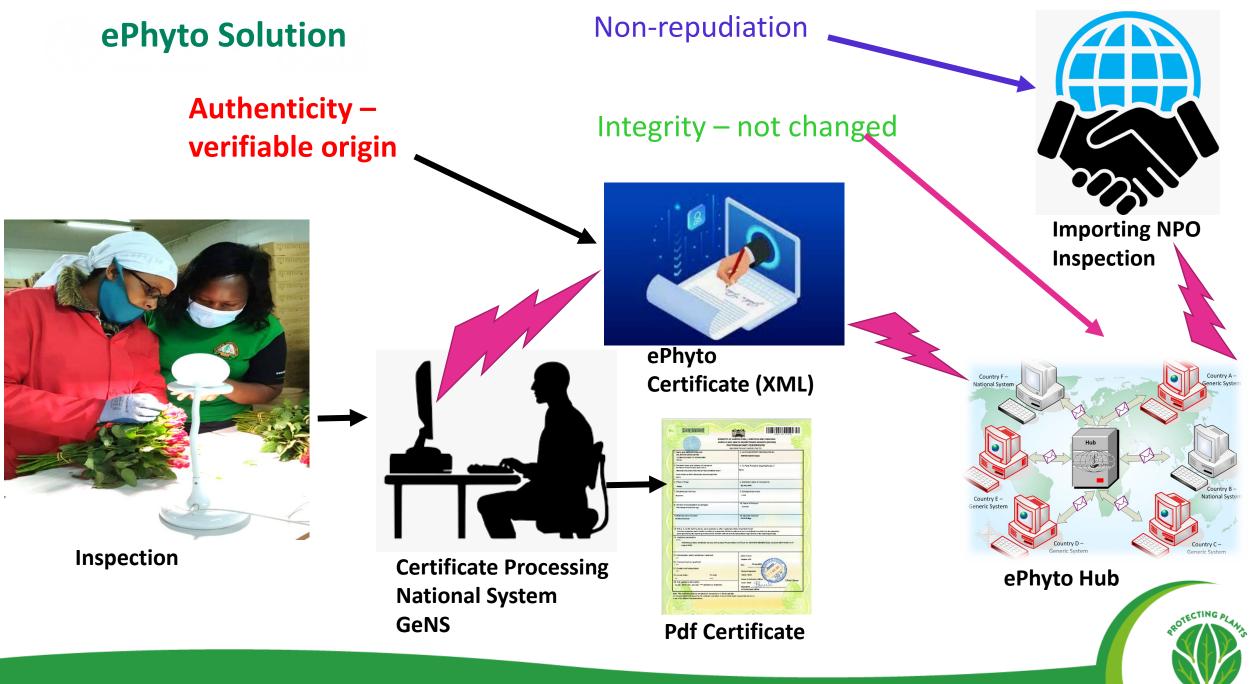
Phytosanitary certificate requirements (ISPMs 7, 12 & 23)

- Authenticity verifiable origin and sender
- Integrity No interference or alteration after issuing
- Non repudiation the legitimacy of data cannot be denied,
- Its challenging to achieve the above with paper certificates (Bryant Christie Inc. Report 2014)



Importing NPO

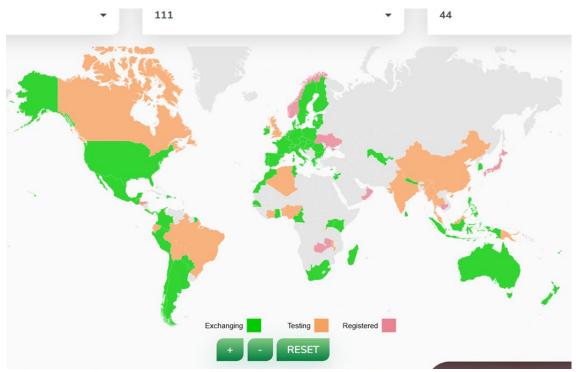
Inspection



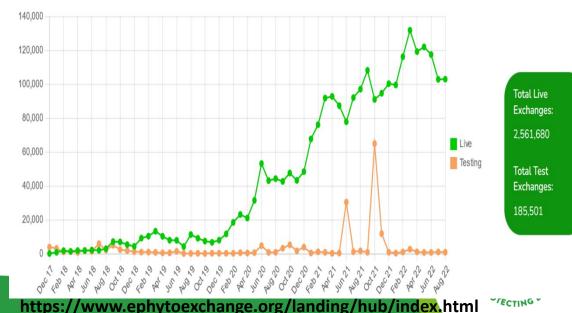
London, 21 – 23 September 2022 | International Plant Health Conference

IPPC ePhyto Solution

- ePhtyo The electronic version of a phytosanitary certificate (ISPM 12 Appendix 1)
- IPPC ePhyto Hub & GeNS were open in 2018 and 2019 respectively
- August 2022 a total of 111 (60%) of 184 CP connections to the Hub
- 70 countries are doing live exchange
- Over 2.5 million ePhyto exchanged
- 9 African countries doing live exchange, while 7 are testing



Summary of the certificates successfully exchanged through the HUB



Country Experience – Kenya

- Initiated electronic certification in 2011
- In 2014 bilateral exchange with Netherlands
- 2018 connected to IPPC ePhyto HUB for sending
- Over 950,000 certificates issued
- Improved efficiency in trade facilitation, enhanced phytosanitary certification



ephyto exchange through IPPC ePhyto Hub



Benefits of IPPC ePhyto solution

- Low risks of forgery, alteration
- Elimination physical document transmission intermediaries
- Reduced physical movement to collect certificates
- Digital storage hence reduced risk of losing the certificate
- Easier authentication and verification
- Global harmonization
- Countries without national systems can use GeNS for ephyto exchange
- System integration and interoperability



Challenges - implementing electronic certification (ePhyto)

- Application of digital technology for information management
- ICT and Phytosanitary information integration knowledge gaps
- Systems integration for data exchange Combining information and business processes, border control agencies
- Legal framework
- Infrastructure Computers, software, servers internet





Food and Agriculture Organization of the United Nations



Department for Environment Food & Rural Affairs

Comments /Questions? Thank you

London, 21 – 23 September 2022

International Plant Health Conference

Josiah Syanda Deputy Director, Phytosanitary Services – KEPHIS IPPC ESG /African Region

