

Food and Agriculture Organization of the United Nations



APP overview and implementation

Africa **Phytosanitary Programme**

(APP) Phase 2 · Train-the-Trainer workshop 23–27 June 2025 · Mpumalanga, South Africa **Descartes Koumba IPPC Secretariat**

Co-organized by:





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What is APP?

The **Africa Phytosanitary Programme (**APP) is an initiative developed by the International Plant Protection Convention (IPPC) Secretariat and the African Union Commission to strengthen Africa's **resilience against plant pests** that threaten agricultural productivity, food security, and economic stability across the continent.



Global Challenges



global annual crop is lost from plant pests¹ or around **USD 220 billion** in annual economic loss.



of crop yields are lost in **Africa** due to insects².



Estimated annual cost attributed to damages caused by invasive alien species in Africa^{3.}



Projected increase in global yield losses of major staple crops such as wheat, rice and maize **per degree of global average surface warming**^{4.}



people faced hunger in 2022. This exacerbates **global hunger** which affects almost a tenth of the world's population. Biodiversity

Invasive alien species are one of the major drivers of **biodiversity loss**⁵.

¹Agrios, G.N. (2005). Plant pathology. Fifth edition. Elsevier Academic Press.

²Oerke, E.C. (2005). Crop losses to pests. Journal of Agricultural Science 144:31-43.

³The Global Action for Fall Armyworm Control: A resource mobilization guide (fao.org). FAO. 2022.

⁴Plant health and environmental protection. FAO. 2021. ⁵The State of the World's Biodiversity for Food and Agriculture. FAO. 2019.

APP Objectives

Enhancing the **capacity of NPPOs** in Africa to use **science and digital technology for better surveillance**, and timely and effective control of pests with regulatory, economic and environmental significance.



Modernization: Providing modern science and GIS digital tools



Safe trade: Promoting **safe trade practices** to protect plant health



Capacity building: Strengthening national phytosanitary systems



Expected Outcomes of the Programme



Enhanced pest management capacity

Building technical capability to detect, prevent and manage plant pests at national borders and within agricultural systems



Improved surveillance systems

Developing robust early warning networks that utilize digital technology to monitor and report pest outbreaks



Harmonized phytosanitary practices

Standardizing inspection protocols and regulatory activities across borders to facilitate safer trade



Enhanced regional collaboration

Creating networks for information sharing and coordinated response to emerging plant health threats

Phased implementation approach



Pilot phase - Selection of countries per sub-region



Proposed APP Governance



APP support to the involved countries

- **1** Develop plant pest survey protocols for priority pests
- **2 Provide tablets for pest surveillance**
- **3** Develop geolocated database country APP GIS HUB
- Field supplies (traps and lures)
- **5** Organize a APP regional for 5/6 phytosanitary expert
- 6 Support organization of national trainings
- 7 Develop APP maps and mobile applications
- Provide technical support





APP Country Engagement

Commitment letter of the National authorities to joint and support APP implementation

Select **5/6 phytosanitary trainers** for the national phytosanitary system

Develop a national **APP operational plan**

Allocate the needed human, technical and financial resources for APP sustainability

Select a least **5 priority pests** and integrate APP in the national surveillance programme

Conduct the surveillance activities using the **APP digital tools**

Contribute the IPPC National Reporting Obligations



APP key achievements



+ 600 ESRI user accounts created for 20 APP countries

570 tablets with APP software distributed to countries

11 APP visits to ministers and FAO in Phase 1 countries

2 Train-the-trainer workshop



1 APP GIS HUB platform operational on the IPP

75 GIS maps of priority pests created

+ 40 plant pest survey protocols developed

APP Communication & advocacy

1 APP brochure in 4 languages (AR, EN, FR, PT)



Amidst climate change, increased global travel and trade, and population growth, plant pests move faster and easier across borders, quickly adapting to new situations to survive. Globally, as much as 40 percent of crop yield is lost to plant pests, which translates to about USD 220 billion in economic losses and increases the risk of food insecurity. In Africa, the estimated crop damage by pests ranges from 30-60 percent or USD 65.5 Leone, Uganda, Zambia, and Zimbabwe. billion annually. By building the resilience of their phytosanitary systems, countries can prevent the entry or spread of pests in their territories

Building a resilient phytosanitary programme for Africa

The Africa Phytosanitary Programme (APP) is the first-ever, continent-wide phytosanitary programme, envisioned to support all 54 African countries to prevent and manage plant pests. A five-year initiative of the International Plant Protection Convention (IPPC) and implemented in coordination with FAO in accordance with the International Standards for Phytosaniand the African Union, APP aims to empower national plant tary Neasures

protection organizations (NPPOs) in Africa to effectively monito efficiently and quickly detect, and ultimately respond and recover from plant pests and diseases of regulatory, economic, and environmental significance. The pilot phase of APP has 11 African countries, namely: Cameroon, Democratic Republic of Congo, Egypt, Guinea Bissau, Kenya, Mali, Morocco, Sierra

Key tenets of APP

Safeguarding plant health, agriculture and natural resources against the introduction and spread of plant pests by helping NPPOs to improve their technical and phytosanitary capacity. APP supports pest risk analysis, pest surveillance, data management, and capacity development.

Promoting safe trade and the expansion of international and regional market access for agricultural products by supporting NP-POs to facilitate the import and export of agricultural products

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Ir. Osama El-Lissy, the IPPC Secretary (2nd Left) interacts with senior officials of the Ministry of Agriculture, Anim Industry and Fisheries on July 8 during a field four of Wagagai Selecta One, a flower growing and exporting firm bas in Wakiso District. Photo via chippenews

4 APP training videos (GIS HUB, citrus greening, mobile applications)

102 APP mentions in national, regional, and international media

100+ social media messages on X, Facebook and LinkedIn with 150k views

Africa Phytosan Program Africa Phytosan Katyp Dogramme

Train-the-Trainer workshop

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Thank you