



Ministry of Agriculture &  
Livestock Development

# OPERATIONALIZATION PLAN MIGRATORY AND INVASIVE PESTS AND WEEDS MANAGEMENT STRATEGY

(2022 – 2027)







# **Operationalization Plan Migratory and Invasive Pests and Weeds Management Strategy**

## **(2022 – 2027)**



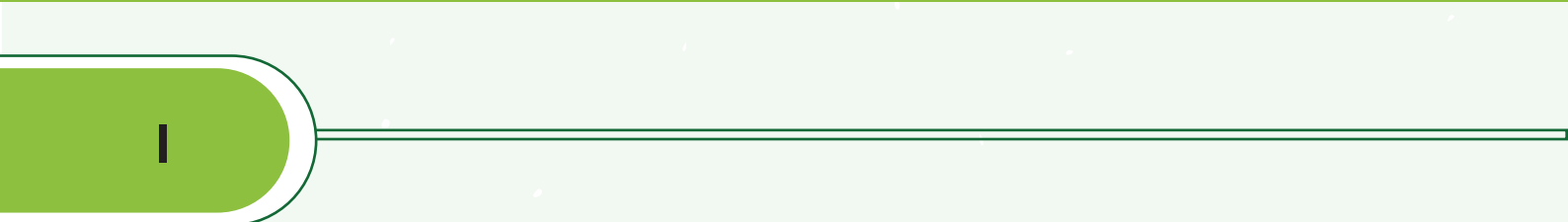




# TABLE OF CONTENTS

Members of Multi-Institutional Technical Team	2
Executive Summary	3
Introduction	4
Justification	5
Strategic Objectives	5
Methodology	6
Annex 1: Work Plan	7
Annex 2: Budget	13
Annex 3: Gantt Chart	16









# Members of Multi-Institutional Technical Team

---

## **Agriculture Secretary**

Collin Marangu

## **National Project Coordinator - ELRP/FSRP**

Priscilla Muiruri

## **Plant Protection and Food Safety Directorate (PP&FSD)**

Teresia Karanja

Rose Njeri

Esbon Agira

Flora Kainyu

Eliud Baraka

Ishmael Mganda

Antony Twaem

Zachary Mwangi

Cindy Koiyala

Nehemiah Maeri

Caroline Gacheke

Susan Karoki

Peris Muthoni

## **State Department for Agriculture**

Paul Obusuru

Former Locust Control Base Manager

Ken Orumo

## **Kenya Agricultural and Livestock Research Organization (KALRO)**

Murenga Mwimali

Christine Wamalwa

## **Kenya Plant Health Inspectorate Services (KEPHIS)**

Mary Mwari Guantai

## **Kenya School of Agriculture (KSA)**

Emily Masinde

## **University of Nairobi**

George Ong'amo

Kenyatta University

Ruth Gathu

## **Desert Locust Control Organization for Eastern Africa (DLCO-EA)**

Moses Mafabi

## **Regional Centre for Mapping of Resources for Development (RCMRD)**

Rose Waswa



## Executive Summary

Migratory and invasive pests move across counties, countries and continents in search of food and suitable breeding habitats. The recent upsurge of migratory and invasive pests and weeds are attributed to human activities and changes in climatic conditions. The recurrent outbreaks, increased frequency of invasions and prolonged infestations of migratory and invasive pests and weeds pose a significant threat to food security and calls for urgent attention. This recognition led to the development of the Migratory and Invasive Pests and Weeds Management (M&IPWM) strategy 2022-2027, which is domiciled in Plant Protection and Food Safety Directorate (PP&FSD) in the Ministry of Agriculture and Livestock Development (MoALD).

The M&IPWM strategy (2022-2027) strategy which was launched in February 2022 consists of seven pillars aimed at steering the process of managing migratory and invasive pests and weeds and mitigate their negative effects on agricultural production. However, since the launch in February 2022, very little has been achieved towards operationalization of the strategy, hence the need to develop an action plan. In this regard, the Emergency Locust Response Program (ELRP) supported PP&FSD to engage a Multi-Institutional Technical Team (MITT) in the consultative process of developing the strategy's operationalization plan. The plan consists of background information largely drawn from the strategic pillars and objectives of the M&IPWM strategy, work plan, budget and a Gantt chart detailing an activity schedule for the duration between September 2024 to June 2025.



# INTRODUCTION

Migratory pests move across counties, countries, regions or even continents, searching for food and suitable breeding habitats. Such migrations can extend over thousands of kilometers across seas and political borders. Their occurrence and movement are aided by weather elements and environmental variables such as rainfall, wind, temperature, soil texture and geographical features. As such climate change has contributed to increased migratory pests' outbreaks, persistence of infestation and severity of impact on crops. Unlike migratory pests, invasive species are introduced through trade in agricultural products and movement of people, research, livestock and wild animals. Invasive weeds are accidentally or intentionally introduced as ornamentals, become established and spread in the cultivated pasture, rangelands, forests and protected areas. These pests have equally devastating effects on agriculture which accounts for about 70% of income for the majority of Kenyans. Their impacts on the economy, aquatic transportation systems and livelihoods are enormous.

The Government of Kenya (GoK), through MoALD, in collaboration with other Ministries, county governments, communities and development partners have been very instrumental in managing migratory pests. Different institutions also support the management of migratory and invasive pests and weeds through phytosanitary and quarantine control. The effectiveness of pest management programs has been constrained by challenges related to institutional and coordination structure; human resource capacity; communication, knowledge and information systems; as well as material and logistical limitations. The lessons learnt from the 2019-2021 desert locust invasion and the emergence and spread of invasive pests and weeds brought out the need for a well-coordinated, multi-sectoral,

multi-stakeholder approach for migratory invasive pests and weeds management.

The MoALD took the initiative to develop the M&IPWM strategy 2022-2027 through a consultative multi-sectoral and multi-stakeholder approach. The M&IPWM strategy aims to address the identified challenges (weak surveillance and early warning, weak linkages among stakeholders, inadequate resources, overlapping institutional mandates, weak extension services and limited research). The strategy seeks to address these challenges through the seven key pillars:

1. Resources mobilization and management
2. ICT to support pest surveillance, monitoring, and forecasting
3. Knowledge management on migratory and Invasive pests and weeds
4. Environmentally and technically sound pest management system
5. Sustainable collaborative partnership in pest control, research and extension
6. Responsive institutional policy and regulatory framework
7. Responsive livelihood recovery/ restoration and resilience mechanisms

To operationalize the M&IPWM strategy, PPFSD through the MITT has developed this action plan with the required attendant resources.



# JUSTIFICATION

Migratory and invasive pests and weeds contribute to food and nutrition insecurity. As such, various control measures have been applied to mitigate pests and weeds invasion. However, the effectiveness of controlling these pests has been constrained by various challenges which were identified in the strategy but have never been addressed fully. For example, effective management of pests requires continuous surveillance and early warning, effective communication and collaboration among the key actors, deployment of integrated pest management (IPM) strategies and protection of humans, animals and the environment. The M&IPWM strategy highlighted approaches to address such shortcomings by identifying key pillars for implementation. To operationalize the strategy, an action plan needed to be developed to guide the implementation process. This action plan, therefore, specifies the key objectives to be accomplished and identifies specific activities and the resources required to achieve the objectives.

in Kenya. The objectives are aligned to the pillars of the strategy and they include:

- i. To identify, secure and allocate adequate financial, physical and human resources for effective management of pests and weeds.
- ii. To establish an effective and efficient information collection and sharing system for monitoring and detecting migratory and invasive pests and weeds.
- iii. To expand knowledge on migratory and invasive pests and weeds among stakeholders for enhanced surveillance, early warning and control.
- iv. To implement safe pest management practices.
- v. To develop and sustain collaborative partnerships for improved management of pests and weeds.
- vi. To harmonise regulatory and institutional framework for the smooth management of pests and weeds.
- vii. To enhance resilient livelihood protection that will strengthen the farmers ability to cope with challenges associated with migratory pests and invasive weeds.

# STRATEGIC OBJECTIVES

The M&IPWM Strategy 2022-2027 covers crucial intervention areas geared towards improving food and nutritional security by reducing production losses. The objectives that are listed below aim at effective and efficient management of migratory and invasive pests and weeds



# METHODOLOGY

Migratory and invasive pests and weeds pose severe constraints to food and nutritional security in Kenya. The frequency of invasions, spatial spread of infestations and severity of impact of migratory and invasive pests and weeds to crops have increased in the recent past. The trend has been exacerbated and is likely to be sustained by climate change effects. This situation has seen communities in affected areas becoming more vulnerable and unable to recover from such shocks. As such, management of these pests is complex and requires a well-thought-out roadmap. To address this complexity, the MoALD through PP&FSD developed the M&IPWM Strategy through a consultative multi-sectoral and multi-stakeholder approach.

The strategy is envisaged to serve as a guiding framework for effective pest management in Kenya. However, this cannot be achieved without operationalising it at national and county levels. In this regard, PP&FSD initiated the development of an action plan through a consultative process with members of MITT. The MITT members were drawn from different institutions including: Plant Protection and Food Safety Directorate (PP&FSD); Crop Resources Directorate in the State Department of Agriculture; Agricultural Regulatory agencies - Kenya Plant Health Inspectorate Services (KEPHIS); Research Institution – Kenya Agricultural and Livestock Research Organization (KALRO); Academia - -

Kenyatta University, University of Nairobi and Kenya School of Agriculture (KSA); Regional intergovernmental organizations: Desert Locust Control Organization for Eastern Africa (DLCO-EA) and Regional Centre for Mapping of Resources for Development (RCMRD). The MITT members were engaged in a one-week long workshop in Nakuru to prepare the Strategy's operationalization plan.

To inform the operationalization action plan drafting; presentations on the M&IPWM strategy, overview of Multi-pest Reporting tool, and strategy operationalization plan contents, were made. The participants were divided into seven teams and each group was tasked to unpack and budget for one strategic pillar. Each group did a plenary presentation and revised the plan and budget accordingly based on contributions made by other participants. The operationalization plan has a detailed work plan highlighting strategic pillars, objectives, activities, sub-activities/tasks, responsibility centres, timelines and performance indicators. In addition, the operationalization plan has a detailed budget for all sub-activities under each of the expected outputs. The plan has also developed a Gantt chart detailing an activity schedule for the duration covering September 2024 to June 2025.



# ANNEX 1: WORK PLAN

Objectives	Activities	Sub-activities/ Tasks	Responsibility	Timelines	Performance Indicators
<b>Pillar 1: Resources Mobilization and Management</b>					
To upscale financial, human and physical capacity to manage migratory and invasive pests in Kenya	1.1 Develop and operationalize Resource Mobilization and Management Committees (RMMCs) at National and County levels	1.1.1 Develop TOR of RMM Committees and validate the fund management mechanism	Director PP&FSD	Sep-2024	Detailed definition of RMMC, TOR and Membership list
		1.1.2 Inaugurate RMM Committees	PS-SDA / CECMs Agriculture	Oct-2024	Minutes/proceedings/resolutions
		1.1.3 Convene quarterly RMM Committee meetings	PS-SDA / CECMs Agriculture	Mar-2025	Meeting proceedings/resolutions
		1.1.4 Lobby for additional funding from National Treasury & county levels for routine migratory pest management	PS-SDA & CECMs Agriculture	Dec-2024	Minutes, Amount of additional resource allocated
		1.1.5 Establish contingency funds for emergency response, livelihood restoration after migratory pest outbreaks	PS-SDA & CECMs Agriculture	Jun-2025	Commitment for contingency fund from National Treasury and county governments
		1.1.6 Convene semi-annual breakfast meetings with potential donor's / development partners	PS-SDA/ CECMs Agriculture	Jun-2025	No. of donors reached, Amount of resources mobilized
	1.2 Increase office space at PP&FSD and ELRP/FSRP counties	1.1.7 Organize regular policy dialogues	PS-SDA & PP&FSD - Director	Dec-2024	No. of meetings held and reports
		1.2.1 Refurbish migratory pest management unit at PP&FSD	Director PP&FSD	Dec-2024	Report on scope of work done
		1.2.2 Equip PP&FSD & ELRP/FSRP counties (furniture, desktops, printers) for County migratory pest unit	Director PP&FSD	Dec-2024	No. of equipment procured and delivered to PP&FSD & ELRP/FSRP counties



Objectives	Activities	Sub-activities/ Tasks	Responsibility	Timelines	Performance Indicators
Pillar 2: ICT Systems to support Migratory & Invasive Pests and Weeds Surveillance & Early Warning					
To enhanced ICT systems to support migratory & invasive pest and weed surveillance, monitoring and forecasting	2.1: Establish and maintain infrastructure for effective surveillance and monitoring of migratory pests	2.1.1 Conduct a needs assessment to determine the specific gaps M&IPW monitoring and early warning gaps in ELRP/FSRP Counties	Director PP&FSD	Sep-2024	Needs Assessment report
		2.1.2 Establish M&IPW management units in ELRP/FSRP Counties	Director PP&FSD	Oct-2024	Office space identified Names of nominated officers TOR developed
		2.1.3 Setup county and national helpdesks to assist stakeholders in reporting of pests	Director PP&FSD	Oct-2024	Names of focal persons/ desk officers at PP&FSD & ELRP/FSRP counties
	2.2: Equip ELRP/FSRP Counties with the necessary ICT hardware and software to enhance pest management capabilities	2.2.1 Undertake training on installation, configuration and use of available data collection, analysis, and reporting tools	Director PP&FSD	Nov-2024	No of participants trained (disaggregated by gender, age and county) and Contact details
		2.2.2 Sensitize stakeholder on utilization of website and geoportal as the advanced information-sharing and management system	Director PP&FSD	Nov-2024	No of stakeholders sensitized (disaggregated by gender, age and county) and Contact details
	2.3: Promote use of geospatial data from available sources, install migratory pest monitors at strategic locations across the country	2.3.1 Train technical staff at PP&FSD and ELRP/FSRP Counties on utilization of geospatial data from available online sources	Director PP&FSD	Oct-2024	No of participants sensitized (disaggregated by gender, age and county) and Contact details
		2.3.2 Conduct baseline survey to map migratory and invasive pests in ELRP/FSRP Counties	Director PP & FSD	Mar-2025	Baseline survey report and distribution maps
		2.3.3 Develop M&IPW hotspot maps and maintain a comprehensive database for ELRP/FSRP Counties	Director PP&FSD	Apr-2025	No. and spatial distribution of identified hotspots



Objectives	Activities	Sub-activities/ Tasks	Responsibility	Timelines	Performance Indicators
Pillar 3: Knowledge management on migratory pests and weeds					
Increasing knowledge on migratory and invasive pests and weeds and their management measures among stakeholders managing the pests	3.1 Document, package, and disseminate technical information on migratory and invasive pests	3.1.1 Document innovative technologies, Indigenous/ local knowledge and design appropriate IPM strategies	Director PP&FSD	Sept-2024	No. of technologies documented, No. of technical materials developed
		3.1.2 Undertake review of pest management technical information material	Director PP&FSD	Oct-2024	No. of manuals, flyers, brochures factsheets reviewed
		3.1.3 Print packaged technical information on migratory and invasive pests management	Director PP&FSD	Dec-2025	No. of technical materials printed
		3.1.4 Disseminate the technical information on M&IPW through various channels (print and electronic media)	Director PP&FSD	Jan-2025	No. of technologies adopted, No. of technical materials distributed
	3.2. Train and sensitize technical staff, farmers and relevant stakeholders on migratory and invasive pests management	3.2.1 Sensitize policy makers and other stakeholders on migratory and invasive pests management	Director PP&FSD	Nov-2024	No. of participants sensitized (disaggregated by gender, age and county) and Contact details
		3.2.2 Train technical staff at PP&FSD & ELRP/FSRP counties on migratory and invasive pests management	Director PP&FSD	Jan-2025	No. of participants trained (disaggregated by gender, age and county) and Contact details



Objectives	Activities	Sub-activities/ Tasks	Responsibility	Timelines	Performance Indicators
Pillar 4: Environmentally safe and technically sound pest management system					
To effectively control migratory and invasive pests and weeds by using the most innovative and environmentally sustainable approaches while adhering to phytosanitary regulations	4.1 Procure and promote the use the most efficient migratory and invasive pests control equipment	4.1.1 Procure pest management equipment and material (drones, loading and off-loading machines, chemicals, airstrip landing lights, adjustable pesticide racks, absorbent materials, detergents, PPE kits, first aid kits, storage bins etc)	Director PP&FSD	Dec-2024	Names and quantities of equipment and material procured
		4.1.2 Refurbish PPFSD chemical store at Kabete	Director PP&FSD	Nov-2024	Report on scope of work done
		4.1.3 Training of county-based spray service providers (SSPs)	Director PP & FSD	Jan-2025	No of participants sensitized (disaggregated by gender, age and county) and Contact details
		4.1.4 Train PP&FSD drivers on spraying using Vehicle Mounted Sprayers (VMSs)	Director PP&FSD	Dec-2024	No. of drivers trained (disaggregated by gender, age and county) and Contact details
		4.1.5 Train PP&FSD team on quelea bird control by blasting and drone technology	Director PP&FSD	Mar-2025	No. of officers trained (disaggregated by gender, age and county) and Contact details
		4.1.6 Communicate with PCPB on new migratory pests to fastrack registration of pest control products	Director PP&FSD	On need basis	No. of new pest control products registered



Objectives	Activities	Sub-activities/ Tasks	Responsibility	Timelines	Performance Indicators
	4.2 Conduct continuous environmental, social and health safety (ESHS) monitoring	4.2.1 Review and update the environmental and social monitoring plan (ESMP)	Director PP&FSD	Oct-2024	ESMP report
		4.2.2 Procure AchE test kits	Director PP&FSD	Dec-2024	No of AchE test kits procured
		4.2.3 Conduct pre and post exposure tests using AchE assays	Director PP&FSD	On need basis	AchE test results
		4.2.4 Procure, install and use integrated ICT based pesticide stock management system	Director PP&FSD	Dec-2025	Names and quantities of equipment procured
		Pillar 5: Sustainable partnerships, collaborations with key partners in managing migratory and invasive pests and weeds			
To build sustainable partnerships, collaborations with key partners in control, research and extension programs in managing migratory and invasive pests and weeds	5.1 Formalize the engagement of partners in migratory and invasive pests management	5.1.1 Draft the MOUs for the partners participation in migratory and invasive pests management	Director PP&FSD	Feb-2024	No. of MoUs signed
		5.1.2 Operationalize Multi-institutional technical teams (MITT) for migratory and invasive pests management at national and county levels	Director PP&FSD	Feb-2024	Minutes, Proceedings, Resolutions, Reports



Objectives	Activities	Sub-activities/ Tasks	Responsibility	Timelines	Performance Indicators
Pillar 6: Responsive Policy and Regulatory Framework					
To create a supportive policy and legal framework to manage migratory and invasive pests and weeds for the Country	6.1 Address regulatory and institutional gaps	6.1.1 Document existing policies, strategies and legal frameworks supporting management of migratory pests	Director PP&FSD	Sept-2024	No. of existing policies, strategies and legal frameworks identified; No. of workshop reports
		6.1.2 Review policies and strategies to establish the existing gaps and harmonize legal and institutional framework	Director PP&FSD	Oct-2025	No. of policies, strategies and legal frameworks reviewed; No. of workshop reports
		6.1.3 Develop of Cabinet Memos to propose development of non-existing frameworks, guidelines and strategies	PS-SDA & Director PP&FSD	Mar-2025	No. of adopted cabinet memos
		6.1.4 Develop manuals, guidelines, Standards Operating Procedures (SOPs) and Contingency Plans (CPs) – Prioritize (CP for Locust and SOP for Quelea birds	Director PP&FSD	Feb-2024	No. of Policy guidelines, SOPs and CPs developed
		6.1.5 Sensitize policy makers, public and private stakeholders on reviewed policy instruments	PP&FSD - Director	Apr-2025	No. of participants trained (disaggregated by gender, age and county) and Contact details



## ANNEX 2: BUDGET

Outputs/Activities	Budget (KES)
<b>Output 1: Financial, human and physical capacity to manage migratory and invasive pests and weeds in Kenya upscaled</b>	<b>21,708,000</b>
<i>Activity 1.1 Develop and operationalize a Resource Mobilization and Management Committees (RMMCs) at National and County levels</i>	
Sub-activity 1.1.1 Develop TOR of RMM committee and validate the fund management mechanism	1,606,000
Sub-activity 1.1.2 Inaugurate RMM Committees	1,948,000
Sub-activity 1.1.3 Convene quarterly RMM Committee meetings	2,168,000
Sub-activity 1.1.4 Lobby for additional funding from National Treasury & county levels for routine migratory pest management	1,300,000
Sub-activity 1.1.5 Establish contingency funds for emergency response, livelihood restoration after migratory pest outbreaks	1,342,000
Sub-activity 1.1.6 Convene semi-annual breakfast meetings with potential donor's /development partners	2,844,000
Sub-activity 1.1.7 Organize regular policy dialogues	800,000
<i>Activity 1.2 Increase office space at PPFSD and ELRP/FSRP counties</i>	
Sub-activity 1.2.1 Refurbish migratory pest management unit at PP&FSD	5,600,000
Sub-activity 1.2.2 Equip PPFSD & ELRP/FSRP counties (furniture, desktops, printers) for County migratory pest unit	4,100,000
<b>Output 2: Effective data collection and information sharing system for detection and monitoring of migratory and invasive pests and weeds established</b>	<b>102,059,600</b>
<i>Activity 2.1: Establish and maintain infrastructure for effective surveillance and monitoring of migratory pests</i>	
Sub-activity 2.1.1 Conduct a needs assessment to determine the specific gaps M&IPW monitoring and early warning gaps in ELRP/FSRP Counties	7,500,400
Sub-activity 2.1.2 Establish M&IPW management units in ELRP/FSRP Counties	6,240,400
Sub-activity 2.1.3 Set up county and national helpdesks to assist stakeholders in reporting of pests	3,655,300
<i>Activity 2.2: Equip ELRP/FSRP Counties with the necessary ICT hardware and software to enhance pest management capabilities</i>	
Sub-activity 2.2.1 Undertake training on installation, configuration and use of available data collection, analysis, and reporting tools	60,262,000
Sub-activity 2.2.2 Sensitize stakeholder on utilization of website and geoportal as the advanced information-sharing and management system	5,696,400



<b>Outputs/Activities</b>	<b>Budget (KES)</b>
<i>Activity 2.3: Promote use of geospatial data from available sources and install migratory pest monitors at strategic locations across the country</i>	
Sub-activity 2.3.1 Train technical staff at PP&FSD and ELRP/FSRP Counties on utilization of geospatial data from available online sources	4,975,600
Sub-activity 2.3.2 Conduct baseline survey to map migratory and invasive pests in ELRP/FSRP counties	9,128,000
Sub-activity 2.3.3 Develop M&IPW hotspot maps and maintain a comprehensive database for ELRP/FSRP Counties	4,601,500
<b>Output 3: Knowledge among stakeholders on migratory and invasive pests and weeds management increased</b>	<b>101,389,680</b>
<i>Activity 3.1 Document, package, and disseminate technical information on migratory and invasive pests</i>	
Sub-activity 3.1.1 Document innovative technologies, Indigenous/local knowledge and design appropriate IPM strategies	9,504,400
Sub-activity 3.1.2 Undertake review of pest management technical information material	12,166,200
Sub-activity 3.1.3 Print packaged technical information on migratory and invasive pests management	13,300,000
Sub-activity 3.1.4 Disseminate the technical information on M&IPW through various channels (print and electronic media)	9,212,480
<i>Activity 3.2 Train and sensitize technical staff, farmers and relevant stakeholders on migratory and invasive pests management</i>	
Sub-activity 3.2.1 Sensitize policy makers and other stakeholders on migratory and invasive pests management	6,974,800
Sub-activity 3.2.2 Train technical staff at PP&FSD & ELRP/FSRP counties on migratory and invasive pests management	50,231,800
<b>Output 4: Migratory and invasive pests and weeds effectively controlled in line with one-health approaches</b>	<b>91,107,500</b>
<i>Activity 4.1 Procure and promote the use the most efficient migratory and invasive pests control equipment</i>	
Sub-activity 4.1.1 Procure pest management equipment and material (drones, loading and unloading machines, chemicals, landing lights, adjustable racks, absorbent materials, detergents, PPE kits, first aid kits, storage bins etc)	34,925,500
Sub-activity 4.1.2 Refurbish PP&FSD chemical store at Kabete	6,500,000
Sub-activity 4.1.3 Training of county-based spray service providers (SSPs)	29,126,400
Sub-activity 4.1.4 Train PP&FSD drivers on spraying using Vehicle Mounted Sprayers (VMSs)	3,197,600
Sub-activity 4.1.5 Train PP&FSD team on blasting and drone technology	7,467,600
Sub-activity 4.1.6 Communicate with PCPB on new migratory pests to fastrack registration of pest control products	



<b>Outputs/Activities</b>	<b>Budget (KES)</b>
<i>Activity 4.2 Conduct continuous environmental, social and health safety (ESHS) monitoring</i>	
Sub-activity 4.2.1 Review and update the environmental and social monitoring plan (ESMP)	3,810,400
Sub-activity 4.2.2 Procure AchE test kits	800,000
Sub-activity 4.2.3 Conduct an AchE test before and after control operations	70,000
Sub-activity 4.2.4 Procure, install and use of integrated ICT based pesticide stock management system	5,210,000
<b>Output 5: Sustainable partnerships/collaborations with key partners in migratory and invasive pests and weeds control, research and extension built</b>	<b>4,968,600</b>
<i>Activity 5.1 Formalize the engagement of partners in migratory and invasive pests management</i>	
Sub-activity 5.1.1 Draft the MOUs for the partners participation in migratory and invasive pests and weeds management	140,000
Sub-activity 5.1.2 Operationalize national and county Multi-institutional technical teams (MITT) for migratory and invasive pests management	4,828,600
<b>Output 6: Policy and legal framework to manage migratory and invasive pests and weeds for the Country created</b>	<b>35,668,000</b>
<i>Activity 6.1 Address regulatory and institutional gaps</i>	
Sub-activity 6.1.1 Document existing policies, strategies and legal frameworks supporting management of migratory pests	200,000
Sub-activity 6.1.2 Review policies and strategies to establish the existing gaps and harmonize legal and institutional framework	1,558,000
Sub-activity 6.1.3 Develop of Cabinet Memos to propose development of non-existing frameworks, guidelines and strategies	3,006,000
Sub-activity 6.1.4 Develop manuals, guidelines, Standards Operating Procedures (SOPs) and Contingency Plans (CPs) –Prioritize (CP for Locust and SOP for Quelea birds	22,422,000
Sub-activity 6.1.5 Sensitize policy makers, public and private stakeholders on reviewed policy instruments	8,482,000
<b>TOTAL</b>	<b>356,901,380</b>



## ANNEX 3: GANTT CHART

Pillar/Output/ Activities	2024				2025					
	Sept	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun
<b>Output 1: Financial, human and physical capacity to manage migratory and invasive pests and weeds in Kenya upscaled</b>										
<i>Activity 1.1 Develop and operationalize a Resource Mobilization and Management Committees (RMMCs) at National and County levels</i>										
Sub-activity 1.1.1 Develop TOR of RMM committee and validate the fund management mechanism										
Sub-activity 1.1.2 Inaugurate RMM Committees										
Sub-activity 1.1.3 Convene quarterly RMM Committee meetings										
Sub-activity 1.1.4 Lobby for additional funding from National Treasury & county levels for routine migratory pest management										
Sub-activity 1.1.5 Establish contingency funds for emergency response, livelihood restoration after migratory pest outbreaks										
Sub-activity 1.1.6 Convene semi-annual breakfast meetings with potential donor's /development partners										
Sub-activity 1.1.7 Organize regular policy dialogues										
<i>Activity 1.2 Increase office space at PPFSD and ELRP/FSRP counties</i>										
Sub-activity 1.2.1 Refurbish migratory pest management unit at PP&FSD										
Sub-activity 1.2.2 Equip PPFSD & ELRP/FSRP counties (furniture, desktops, printers) for County migratory pest unit										
<b>Output 2: Effective and efficient data collection and information sharing system for detection and monitoring of migratory and invasive pests and weeds established</b>										
<i>Activity 2.1: Establish and maintain infrastructure for effective surveillance and monitoring of migratory pests</i>										
Sub-activity 2.1.1 Conduct a needs assessment to determine the specific gaps M&IPW monitoring and early warning gaps in ELRP/FSRP Counties										
Sub-activity 2.1.2 Establish M&IPW management units in ELRP/FSRP Counties										
Sub-activity 2.1.3 Set up county and national helpdesks to assist stakeholders in reporting of pests										



Pillar/Output/ Activities	2024				2025					
	Sept	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun
<i>Activity 2.2: Equip ELRP/FSRP Counties with the necessary ICT hardware and software to enhance pest management capabilities</i>										
Sub-activity 2.2.1 Undertake training on installation, configuration and use of available data collection, analysis, and reporting tools										
Sub-activity 2.2.2 Sensitize stakeholder on utilization of website and geoportal as the advanced information-sharing and management system										
<i>Activity 2.3: Promote use of geospatial data from available sources, install migratory pest monitors at strategic locations across the country</i>										
Sub-activity 2.3.1 Train technical staff at PP&FSD and ELRP/FSRP Counties on utilization of geospatial data from available online sources										
Sub-activity 2.3.2 Conduct baseline survey to map migratory and invasive pests in ELRP/FSRP counties										
Sub-activity 2.3.3 Develop M&IPW hotspot maps and maintain a comprehensive database for ELRP/FSRP Counties										
<b>Output 3: Knowledge among stakeholders on migratory and invasive pests and weeds management increased</b>										
<i>Activity 3.1 Document, package, and disseminate technical information on migratory and invasive pests</i>										
Sub-activity 3.1.1 Document innovative technologies, Indigenous/local knowledge and design appropriate IPM strategies										
Sub-activity 3.1.2 Undertake review of pest management technical information material										
Sub-activity 3.1.3 Print packaged technical information on migratory and invasive pests management										
Sub-activity 3.1.4 Disseminate the technical information on M&IPW through various channels (print and electronic media)										
<i>Activity 3.2 Train and sensitize technical staff, farmers and relevant stakeholders on migratory and invasive pests management</i>										
Sub-activity 3.2.1 Sensitize policy makers and other stakeholders on migratory and invasive pests management										
Sub-activity 3.2.2 Train technical staff at PPFSD & ELRP/FSRP counties on migratory and invasive pests management										



Pillar/Output/ Activities	2024				2025					
	Sept	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun
<b>Output 4: Migratory and invasive pests and weeds effectively controlled in line with one-health approaches</b>										
<i>Activity 4.1 Procure and promote the use the most efficient migratory and invasive pests control equipment</i>										
Sub-activity 4.1.1 Procure pest management equipment and material (drones, loading and unloading machines, chemicals, landing lights, adjustable racks, absorbent materials, detergents, PPE kits, first aid kits, storage bins etc)										
Sub-activity 4.1.2 Refurbish PPFSD chemical store at Kabete										
Sub-activity 4.1.3 Training of county-based spray service providers (SSPs)										
Sub-activity 4.1.4 Train PP&FSD drivers on spraying using Vehicle Mounted Sprayers (VMSs)										
Sub-activity 4.1.5 Train PP&FSD team on blasting and drone technology										
Sub-activity 4.1.6 Communicate with PCPB on new migratory pests to fastrack registration of pest control products										
<i>Activity 4.2 Conduct continuous environmental, social and health safety (ESHS) monitoring</i>										
Sub-activity 4.2.1 Review and update the environmental and social monitoring plan (ESMP)										
Sub-activity 4.2.2 Procure AchE test kits										
Sub-activity 4.2.3 Conduct pre and post control exposure tests using AchE kits										
Sub-activity 4.2.4 Procure, install and use of integrated ICT based pesticide stock management system										
<b>Output 5: Sustainable partnerships / collaborations with key partners in migratory and invasive pests and weeds control, research and extension built</b>										
<i>Activity 5.1 Formalize the engagement of partners in migratory and invasive pests management</i>										
Sub-activity 5.1.1 Draft the MOUs for the partners participation in migratory and invasive pests management										
Sub-activity 5.1.2 Operationalize national and county Multi-institutional technical teams (MITT) for pests management										



Pillar/Output/ Activities	2024				2025					
	Sept	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun
Output 6: Policy and legal framework to manage migratory and invasive pests and weeds for the Country created										
<i>Activity 6.1 Address regulatory and institutional gaps</i>										
Sub-activity 6.1.1 Document existing policies, strategies and legal frameworks supporting management of migratory pests										
Sub-activity 6.1.2 Review policies/strategies to establish the existing gaps and harmonize legal and institutional framework										
Sub-activity 6.1.3 Develop of Cabinet Memos to propose development of non-existing frameworks, guidelines and strategies										
Sub-activity 6.1.4 Develop technical manuals, guidelines, SOPs and CPs –Prioritize (CP for Locust and SOP for Quelea birds)										
Sub-activity 6.1.5 Sensitize policy makers, public and private stakeholders on reviewed policy instruments										

















REPUBLIC OF KENYA

**State Department for Agriculture**  
Plant Protection & Food Safety Directorate  
NARL-Kabete, Waiyaki Way, Westlands  
P.O. Box 14733 - 00800 Westlands  
Email: [ppfsd@kilimo.go.ke](mailto:ppfsd@kilimo.go.ke) | Website: [www.ppfsd.go.ke](http://www.ppfsd.go.ke)

