



# LES ASSISES DE L'AGRICULTURE 2026:

## SMART AGRICULTURE FOR A RESILIENT MAURITIUS

#assisesagriculture2026

### CLUSTER 3: CROP

**One Health Approach: Integrating Environment, Plant and Animal Health**

**Nutrition Security, Food Safety and Wellness**

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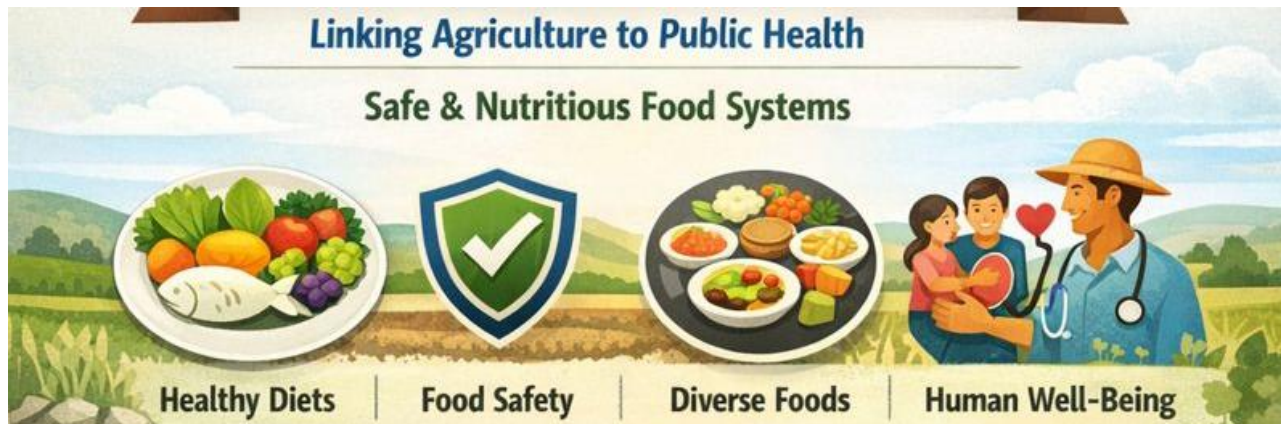
# Cluster 3 - FOCUS AND OBJECTIVE

## One Health Approach: Integrating Environment, Plant and Animal Health

- ❑ Safeguarding the long-term sustainability of agrifood systems through responsible resource use, pollution control, and ecosystem monitoring

## Nutrition Security, Food Safety and Wellness

- ❑ Linking agriculture to public health by ensuring diverse, safe, and nutrient-dense food systems that support local economies and reduce health risks



# Key Challenges

- Declining Soil Health and Fertility
- Water Scarcity
- Soil and Water Contamination
- Linear Production Model: Waste-Resource Paradox
- Increasing Diet-related Diseases
- Limited Food Safety Monitoring & Enforcement
- Weak collaboration across sectors

## Rodrigues

- High import dependency
- Fragile ecosystem
- Limited infrastructure



# 18 Interventions Areas and 165 Proposed Actions



## 6 Domains of Intervention



**1. Soil Health  
and Fertility  
Management**



**2. Land and  
Water  
Management**



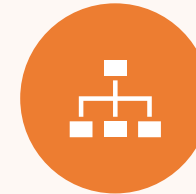
**3. Waste  
Management  
and Circular  
Economy**



**4. Safe food  
production**



**5. Nutrition  
Sensitive  
Agriculture,  
Health and  
Wellness**



**6. Governance,  
Policy and  
Institutional  
Coordination**



# Domain 1 - Soil Health and Fertility Management

## Proposed Interventions

- **Research/ Training/ Support**
  - Soil and water conservation
  - Soil organic matter/ Integrated nutrient management
- Develop national digital soil database and fertility map
- Upgrade soil testing laboratories-
- Introduce mobile testing facilities and soil health cards

### Potential Flagship Intervention

**Establish Soil Health Monitoring System to support soil fertility management practices**



# Domain 2 – Land and Water Management

## Proposed Interventions: Optimum use of resources



**Improve irrigation efficiency**



**Promote Rainwater harvesting**



**IoT sensors**



**Mulching**

**Potential Flagship Intervention**  
Strengthen coordination to implement  
Integrated catchment scale soil - water  
conservation



**Reuse treated  
wastewater**

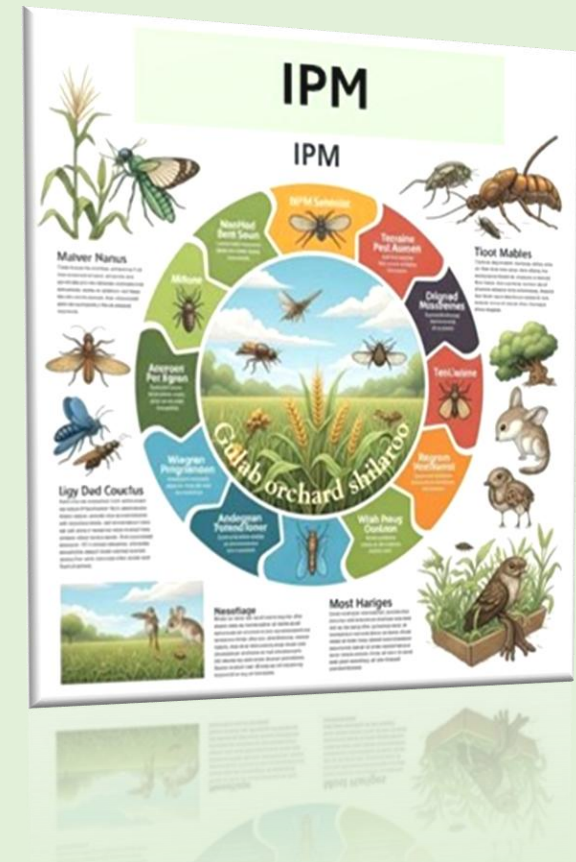


# Domain 3 - Waste Management and Circular Economy

## Proposed Interventions

### Sustainable Agricultural Practices

- Integrated Pest Management (IPM) , Integrated Soil Fertility Management (ISFM), organic farming and efficient use of resources
- Enforce safe storage and disposal of pesticide containers
- Promote agriwaste recycling/ composting
- Reduce postharvest losses



### Proposed Flagship Intervention

**Centralised facility for Composting & Nutrient Recycling**

# Domain 4. Safe Food Production

## Proposed Interventions

### Food Safety and Pesticide monitoring

- National IPM programme/ **MauriGAP** & Organic farming: Certification
- Designate Natural Farming Zones
- Strengthen regulation- labelling and sale of agrochemicals
- Raise awareness: Food-safety and nutrition
- Upgrade Food Tech lab. for multi-residue testing
- Reinforce traceability, transparency and public reporting
- Harmonise enforcement across agriculture, health and trade



### Potential Flagship intervention

**Establish an Integrated Farm-to-Fork Traceability System**



# Domain 5 - Nutrition Sensitive Agriculture, Health and Wellness

## **Proposed Interventions:** Nutrition and wellness

- Integrate Nutrition in Agricultural policy planning
- Promote nutrient-dense, traditional, climate-resilient and bio-fortified crops
- Create community /school nutrition gardens
- Train professionals in horticultural therapy
- Encourage food product reformulation

### **Potential Flagship Intervention**

**Establish model community / school nutrition gardens  
(Agriculture- Health-Local Authorities -Education)**



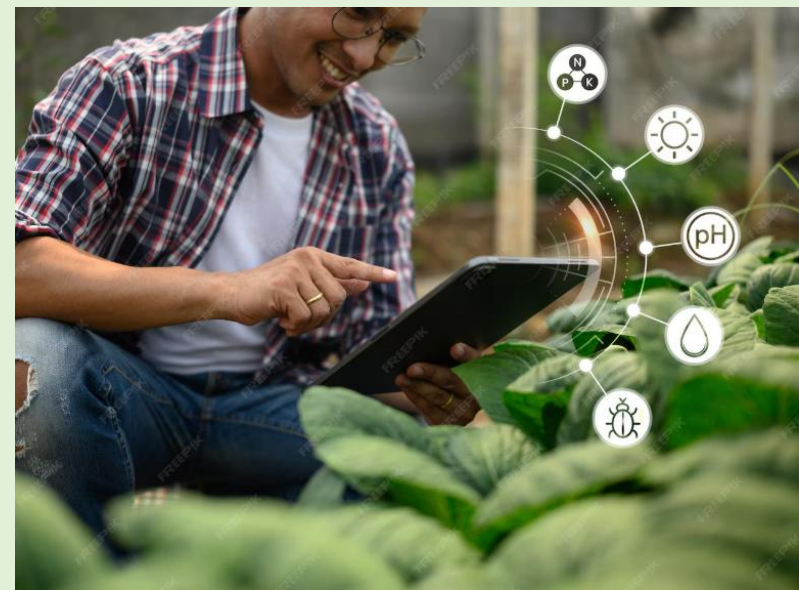
# Domain 6 - Governance, Policy and Institutional Coordination

## Proposed Interventions

- Establish **national coordination mechanisms** for joint planning and budgeting across sectors
- Encourage **cross sectoral integrated harmonised policies**  
*Food security-Nutrition security -Health (Agriculture- Health-Trade-Education)*
- Strengthen **data systems** and **sharing** across different sectors
- Develop National Public food procurement policy favouring local, nutritious safe foods

### Potential Flagship Intervention

Establish a "Food Systems & One Health" Policy Coordination Mechanism





# **WELCOME**

## **Additional Contributions**



**Healthy foods**



**Education, therapy**



**Composting**