

# 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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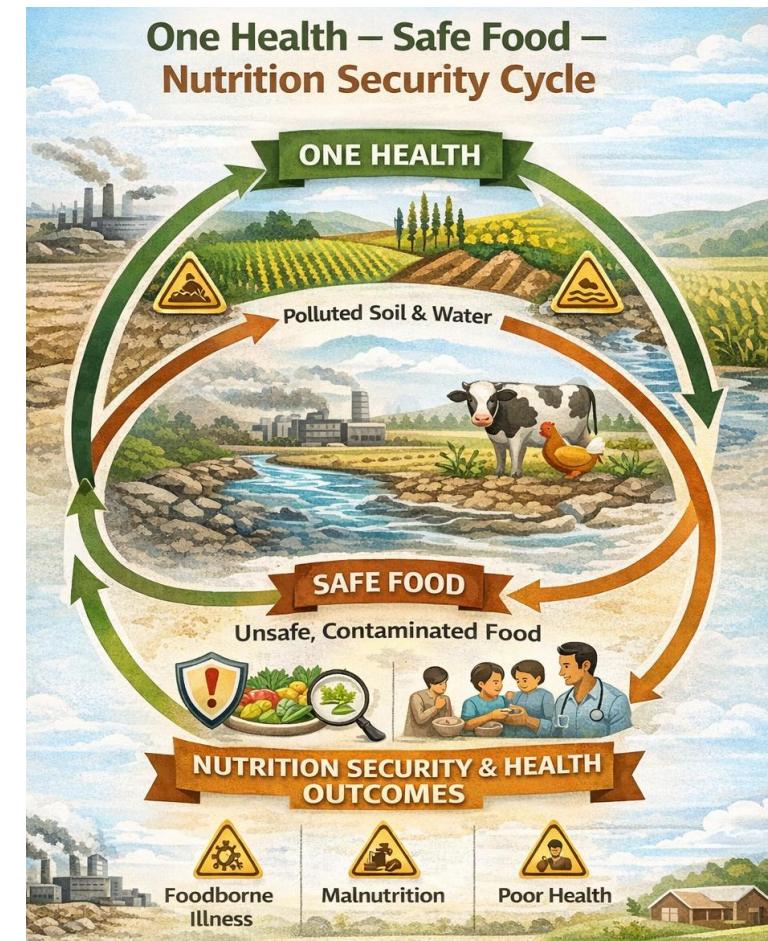
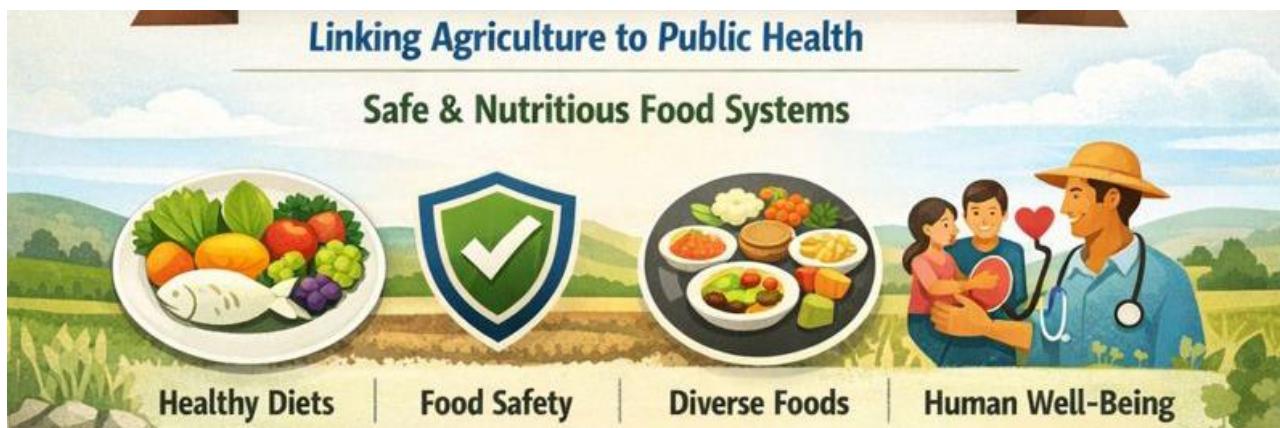
# Cluster 3 - FOCUS AND OBJECTIVE

## 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**



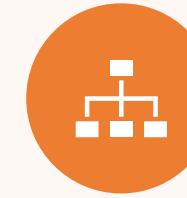
**3. Waste Management and Circular Economy**



**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



Mulching



Promote Rainwater harvesting



IoT sensors



Reuse treated wastewater

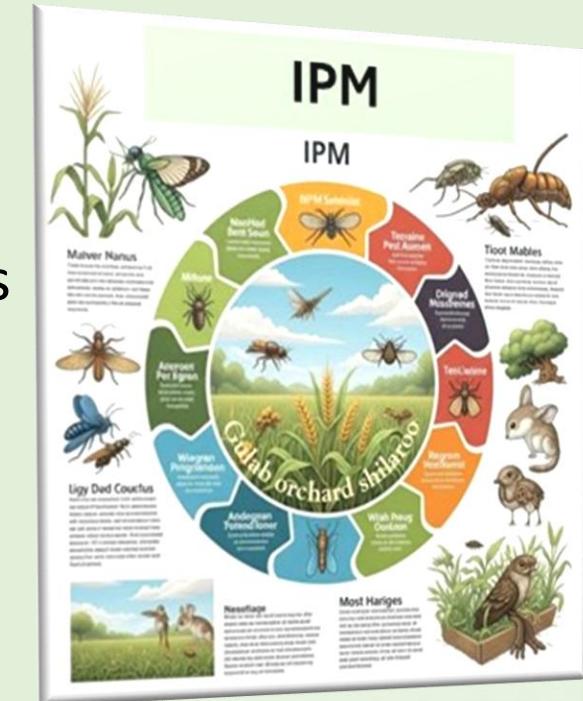
**Potential Flagship Intervention**  
Strengthen coordination to implement  
Integrated catchment scale soil - water  
conservation

# 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

© iStock.com/erica\_woman smiling and holding fresh vegetables - stock photo



### Potential Flagship Intervention

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

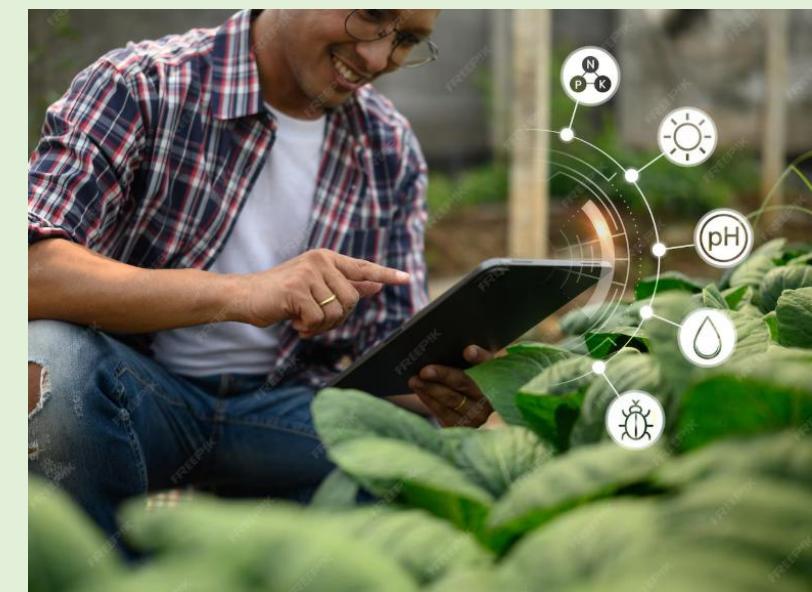
# Domain 6 - Governance, Policy and Institutional Coordination

## 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