



Food and Agriculture  
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# IPPC Global Workshop on Systems Approaches

Santiago, Chile  
1 – 4 December 2025

In partnership with:



Australian Government  
Department of Agriculture,  
Fisheries and Forestry

## Systems approach for global biosecurity and trade



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## The Problem

- Increase of pests leads to added pressure on food production and the environment.
- Stricter environmental and health risk criteria are removing established pest management tools from the market faster than new solutions can be developed
- There has been reliance on single treatments as the best options for market access.
  - Single solutions are appropriate in some circumstances
  - Not practical or sufficient in others







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## Recent Active Substance Withdrawals

- **2024–2025:** Multiple active ingredients withdrawn from EU (Metribuzin, Ipconazole, Dimoxystrobin)
- **Abamectin:** Restricted to greenhouse use only (April 2024)
- **Kenya:** 77 pesticides withdrawn, 202 restricted (2025)
- **California:** New Pesticide Prioritization Process for phase-outs

## Why New Tools Aren't Filling the Gap?

- Stringent hazard-based approval criteria making new approvals difficult
- Extended regulatory review timelines (5–10 years typical)
- High financial risk: approved ingredients may be withdrawn later
- Industry shifting focus to biocontrols or other options instead of chemicals



Source: GMwatch



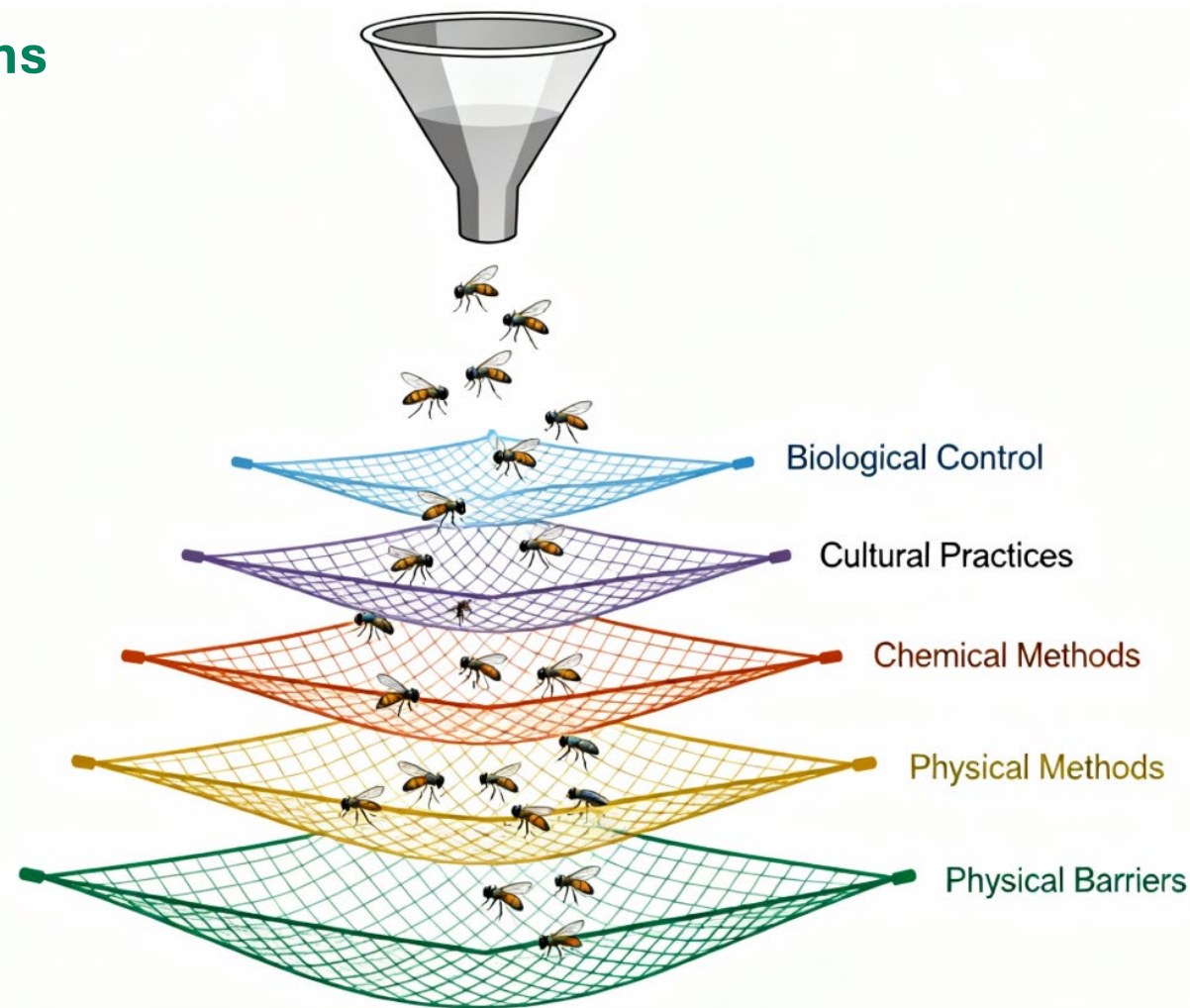
Source: TheGuardian



## From Single Measures to Integrated Solutions

- Single measures often insufficient or impractical
- Increasing complexity of international trade and pest risks
- Need for sustainable, science-based solutions for biosecurity
- Supports innovative pathways for compliance and market access

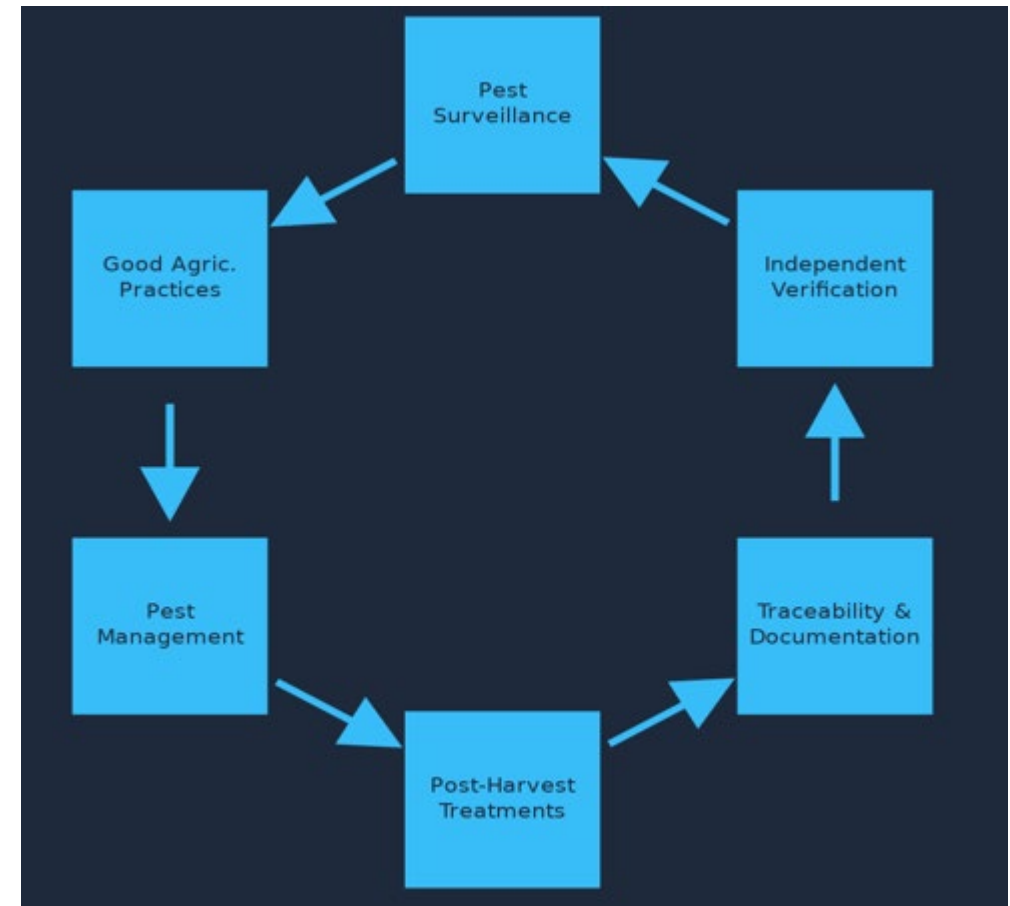
Systems approaches combining **multiple tools**





## Systems Approach: Integrated Risk Management

- Combines multiple phytosanitary measures along the supply chain
- Reduces pest risks to an acceptable level to meet a country's ALOP
- Integrated measures: pre-harvest, harvest, post-harvest, shipping
- Allows flexibility and innovation, beyond single "stand-alone" measures







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## What are we expecting at the end of the workshop?

- Enhance understanding and skills for designing and implement systems approaches that integrate pest risk management.
- Learn about real-world cases studies on systems approaches.
- Facilitate safe trade of plants and plant products (e.g. use of ISPM14)
- Recommendations for improving usage of systems approaches and ISPM14.
- Inform the implementation of ISPM14 and highlight needs for capacity development.
- Paper recommending actions to the Commission of Phytosanitary Measures (9-13 March 2026).
- Enhance global plant health security through informed, collaborative, and effective systems approaches to pest risk management.



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# Thank you