

ASEAN Action Plan on Fall Armyworm & IPM

Presentation to the Annual Biocontrol Industry Meeting (ABIM)

Dr Alison Watson, Head of the ASEAN FAW Action Plan
20 October 2021



Australian Government
Department of Foreign Affairs and Trade



GrowAsia



ASEAN FAW ACTION PLAN
Supporting IPM Across Southeast Asia

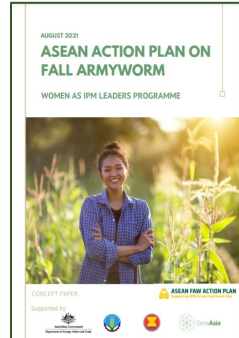
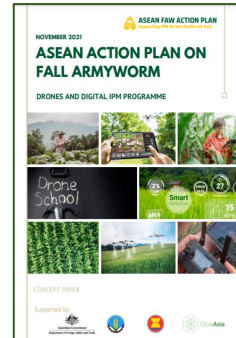
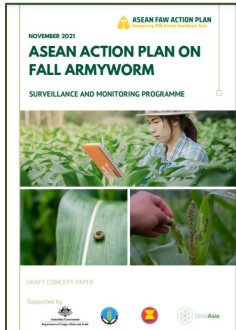
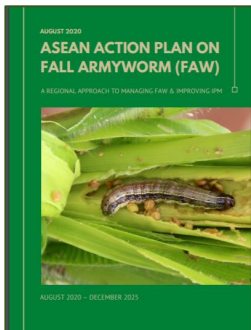


- Grow Asia acts as the **Secretariat** of the ASEAN Action Plan on FAW and IPM
- Grow Asia is a not-for-profit multi-stakeholder partnership platform that brings together farmers, governments, the private sector, NGOs and other stakeholders in Southeast Asia to lift the productivity, profitability and environmental sustainability of smallholder agriculture in the region.
- <https://www.growasia.org/what-we-do>



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A UNIQUE REGIONAL RESPONSE



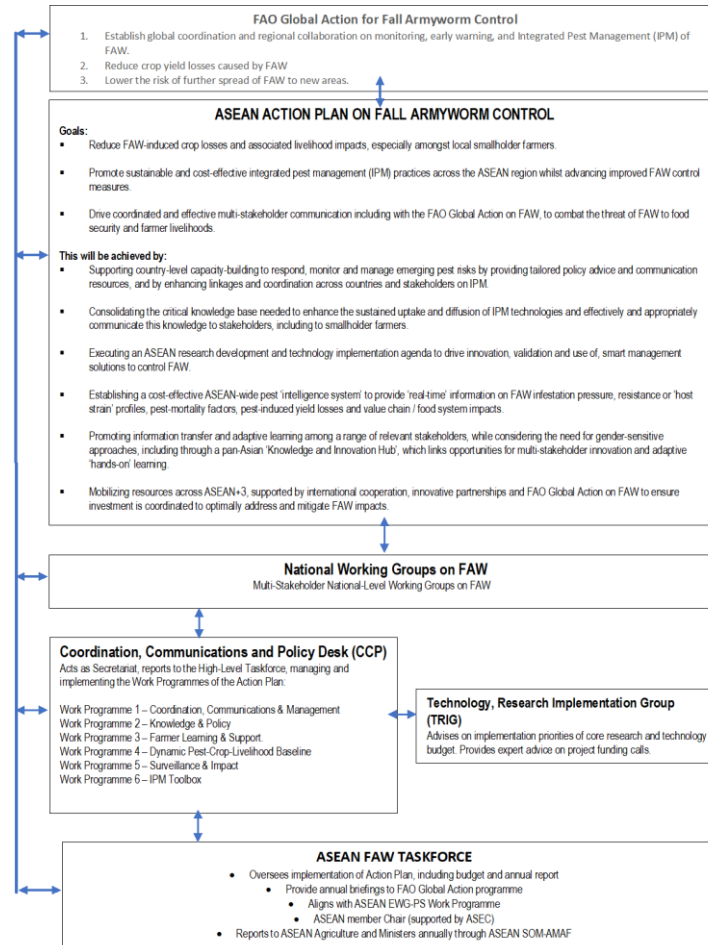
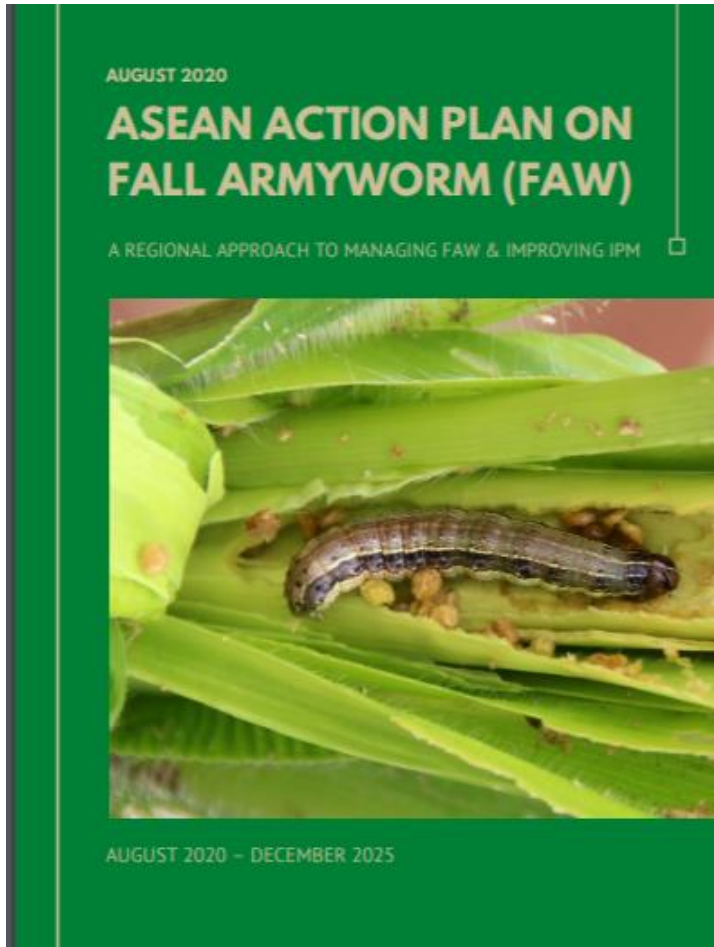
Why a Regional Action Plan?

- This is fast moving transboundary pest, it respects no borders
- Estimates using 10% crop damage across ASEAN maize crops indicates an annual US\$884 million
- ASEAN farmers are in urgent need of effective, locally valid and regionally relevant management solutions.
- By working together, sharing information, learnings, and pooling resources the ASEAN countries can combat FAW better and more efficiently.
- Importantly, a regional approach can build more trust between stakeholders, including between the private and public sector – and farmers - which is critical to driving long-term change.



ASEAN FAW Action Plan

- *Signed off at Ministers level as an ASEAN Regional Strategy
- *Model for future emerging pests and diseases in region



ASEAN FAW ACTION PLAN
Supporting IPM Across Southeast Asia

www.aseanfawaction.org

Stakeholder Ecosystem

ASEAN FAW Taskforce

- Provides overall governance
- Chaired by Viet Nam (MARD)
- Vice-Chair (another Member State (MS), currently the Philippines)
- Vice-Chair (non-MS organization)
- Consists of officials from all MS, plus a selection of key research organizations, donors, farmers organization and private sector representatives

Secretariat

- Provided by Grow Asia and reports to the ASEAN FAW Taskforce
- All day-to-day management, development and implementation of the Action Plan

Technical research and innovation Group

- Supports the Secretariat
- Small panel of experts/advisors
- Advises on development of projects and programs

FAW and IPM Network

- Private and public sector stakeholders across research, private sector, extension services, policy and regulatory bodies, and farming communities
- International and regional organizations: e.g., FAO, APPPO

Three Goals

Reduce

Reduce FAW-induced crop losses and associated livelihood impacts

Promote

Promote sustainable and cost-effective integrated pest management (IPM) practices

Drive

Drive coordinated and effective multi-stakeholder communication



6 Objectives:



Supporting country-level capacity-building



Consolidating the critical knowledge base



Executing an ASEAN research development and technology implementation agenda



Establishing a cost-effective ASEAN-wide pest intelligence system



Promoting information transfer and adaptive learning



Mobilizing resources





Seven Thematic Work Programmes

- Knowledge and Innovation Hub
- Monitoring and Surveillance
- Farmer Communication
- Resistance
- Biocontrol
- Drones and Digital IPM
- Women as IPM Leaders



Work Programmes





ASEAN FAW & IPM Action Plan

FAW Notes from Across the Region: Philippines - Entomopathogenic Fungi
ASEAN FAW Action Plan project associate, Randolph Candano, interviews Melissa Montecalvo to find out more about her work on biological.

FAW Notes from Across the Region: Viet Nam
Over the coming months we will be interviewing experts from across Southeast Asia to find out what they are working on and get their views.

Pesticide education and training programmes: Cambodia
In our latest Farmer Communication Workshop, Dr Seng Kim Hien provided a basic overview of the importance of pesticide education and training programmes.

The Trap of Pesticide Use: A Case Study of Rice Farmers in Java
Dr Yunita Triwardani Winarto, Emeritus Professor in anthropology at Universitas Indonesia, will draw on the findings of a longitudinal study of rice farmers in Java to explore the trap of pesticide use.

Biocontrol Webinar and Workshop Series



Farmer communication

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Follow

How can we best communicate with farmers to ensure access to information on how to control FAW and improve...



Video

Biocontrol Introductory Webinar: Part 1

Introduction to Biocontrol and Classical Approaches
[PDF of presentation](#)



Video

Biocontrol Introductory Webinar: Part 2

Biopesticides
[PDF of presentation](#)



Video

Biocontrol Introductory Webinar: Part 3

Augmentation & Conservation
[PDF of presentation](#)



Video

Session 1 Biocontrol Workshop Series:

Field collection and identification of FAW parasitoids and predators
[PDF of presentation](#)

Do you have case studies within the region you would like to share? Tool-kits?



Regional Surveillance and Monitoring Platform

Stakeholders need to know where FAW is, or will be soon, and at what levels it is present – to make sound management decisions.



Three components:

1. Understanding current monitoring and surveillance efforts across SEA
2. Evaluating different ways to monitor for FAW at national and regional-level
3. Pilots for Scaling up Effective Monitoring and Biocontrol Practices

Farmer Communication & Action

Providing a menu of safe, accessible, cost-effective solutions as well as targeted knowledge and support to enable farmers to make informed IPM decisions.



Workshop Series
2021-2022



8 June 2021

Understanding farmer behaviour in empowering IPM/FAW Control



27 July 2021

Farmer communication strategies



7 Sep. 2021: Part 1:

Decision-making, behaviour and communication about pesticides



21 Oct. 2021: Part 2

Decision-making, behaviour and communication about pesticides



23 Nov. 2021

Lessons learnt on communication



Mar. 2022

Launch of Publication

1500 people registered so far...

- There is a gap in understanding related to farmer behaviour and decision-making.
- Communication is more than telling farmers what they should do!
- Need to understand drivers for long-term farmer behavioural change towards better IPM.
- Farmers are part of the solution – so need to be part of the development of solutions.

Do you have case studies?



ASEAN FAW ACTION PLAN
Supporting IPM Across Southeast Asia

Real interest in Biocontrol! Significant participation in Biocontrol Introductory Webinar Series and Technical Workshop Series

- Over 4000 people registered across all online sessions
- Over 4000 people have viewed the videos
- Rich and diverse set of information and learning materials developed



Biocontrol Programme

Improving the capability of biocontrol
solutions and their use across
Southeast Asia.



Biocontrol Programme

Improving the capability of biocontrol solutions and their use across Southeast Asia.



AUGUST 2021

ASEAN ACTION PLAN ON FALL ARMYWORM

BIOCONTROL PROGRAMME



CONCEPT PAPER

ASEAN FAW ACTION PLAN
Supporting IPM Across Southeast Asia

Supported by



Five components:

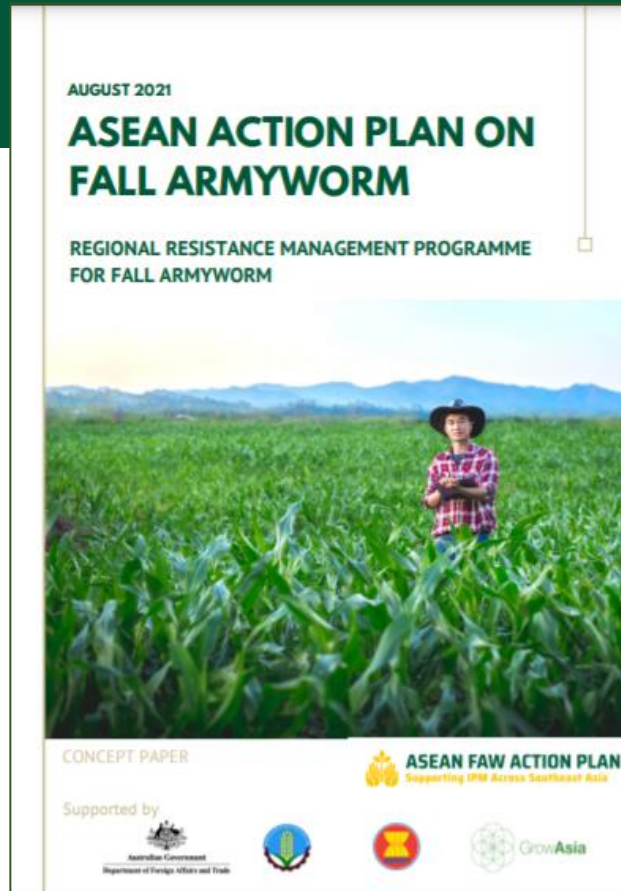
1. Information and knowledge-sharing
2. Regulation and the enabling environment
3. Research capability
 - Virtual ASEAN Bioprotection Research Centre
4. Pilots, Demonstrations, and technology transfer
 - ASEAN Biocontrol Accelerator
5. Farmer education and training

It's time to Accelerate and Consolidate the role of Biocontrol in the region.

 **ASEAN FAW ACTION PLAN**
Supporting IPM Across Southeast Asia

Regional Resistance Management Plan

Farmers across Southeast Asia need access to all the tools in the IPM toolbox to successfully combat FAW.

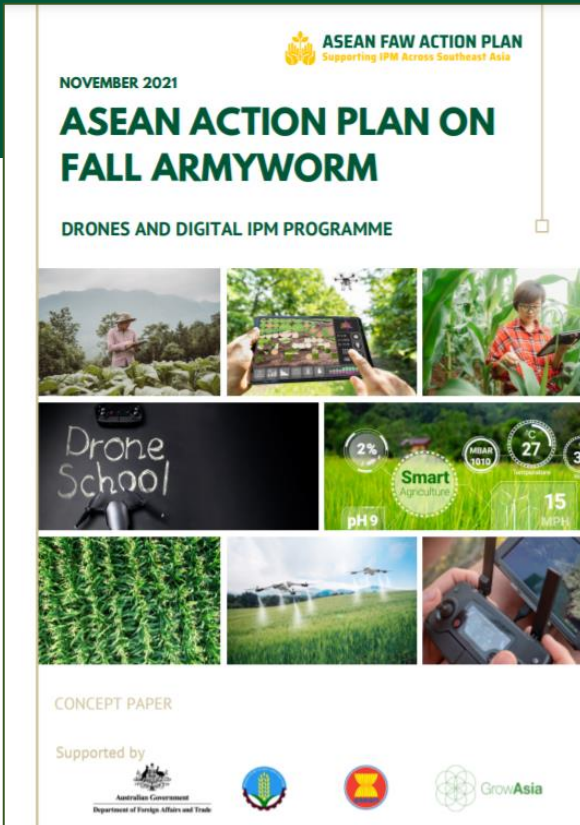


Three major components:

1. Regional FAW surveillance and resistance.
 2. Country-specific and regional FAW resistance management guidelines inclusive of all possible IPM practices.
 3. Integrating host plant resistance with other compatible IPM tactics for sustainable FAW control in the ASEAN region.
- A focus on integrating climate adaptation and FAW resistant strategies
 - Establishment of 1-2 test centres and wider regional partnerships
 - Public and private-sector partnerships driven

Drones and Digital IPM

Unlocking the potential of technologies to enable precision integrated pest management across Southeast Asia



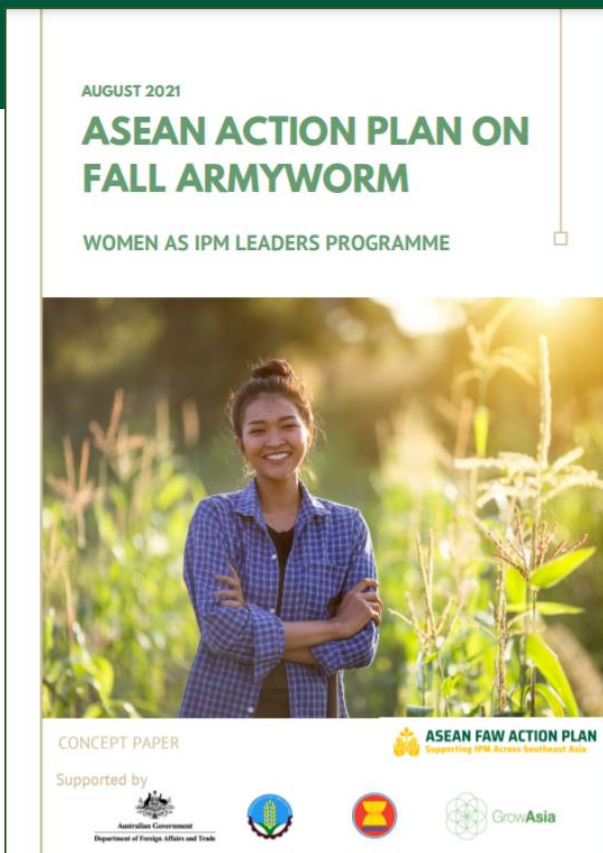
Three major components:

- Drones and Digital IPM Forum
- ASEAN Drones and Data Academy
- Integrated solutions for smallholder farmers



Women as IPM Leaders

Empowering women as leaders in integrated pest management across Southeast Asia



FIVE COMPONENTS

Communication,
Information &
Knowledge

Enabling
Environment

Women
Leadership &
Entrepreneurship

Education &
Training

Mainstreaming

IMPLEMENTATION IN THREE PHASES

Phase 1: Exploration: September 2021-November 2020

Phase 2: Acceleration: November 2022 – November 2024

Phase 3: Evaluation: by February 2025

What are **the roles of women** in managing different plant pests, weeds and diseases? ... How can we **empower** women in IPM? ... What is **empowerment**? ... Do women perceive **biocontrol** differently than men farmers?... How can we **reach out to women** better regarding biocontrol solutions in the field?... How can women and men **work together** to improve IPM? ... What is the **impact** of a proposed IPM plan on women in the community? ...

How are you empowering women in IPM?



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Partnership

There are opportunities to work more closely together in Southeast Asia.

Regional approaches to transboundary plant pests and diseases make sense.

SEA can be a pilot for the broader Asia-Pacific region and other regions.

We need all stakeholders involved in contributing to long-term sustainable solutions that are good for people and the environment.



A woman and a child walking through a golden rice field. The woman is wearing a black traditional outfit and a colorful headscarf, carrying a large woven basket on her back. The child is wearing a blue and pink outfit. They are walking on a path through the rice field, with terraced hills in the background.

Contact

For more information and to discuss opportunities to participate in the ASEAN FAW Action Plan please contact:

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The support of the following organisations are gratefully appreciated:

