



FDA 
HealthUP

Public Health Pesticides Registration in Thailand

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Content

01 Legislative control of
public health pesticides in Thailand

02 Registration of public health pesticides
in Thailand

Content

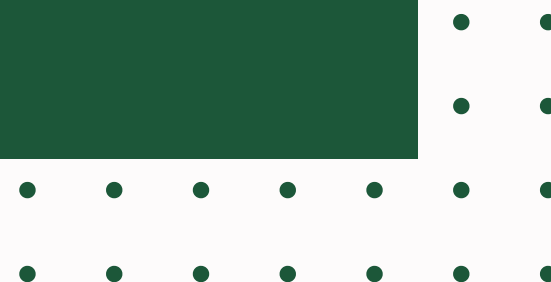


01

Legislative control of
public health pesticides in Thailand

02

Registration of public health pesticides
in Thailand





Food and Drug Administration (FDA) Ministry of Public Health, Thailand

FDA 
Health UP

Foods



Medicines



Cosmetics



Public Health & Household Hazardous Substances



Medical Devices



Narcotic & Psychotropic substances



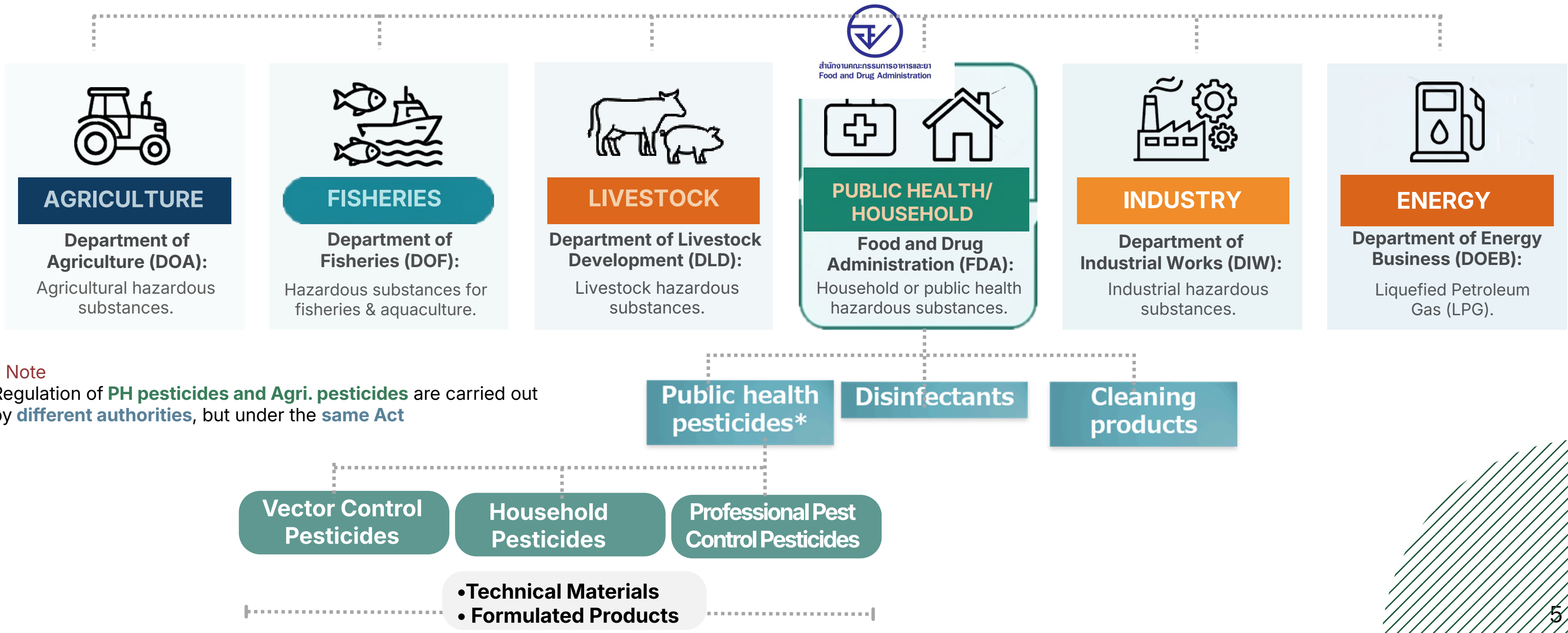
Herbal Products



Overview of Hazardous Substance Regulation: Structure & Collaboration

Hazardous Substance Act B.E. 2535 (1992) and Amendments

Hazardous Substances List defines the competent authorities and the chemicals/substances under their regulation
The 6 Responsible Agencies: Defined by Mission

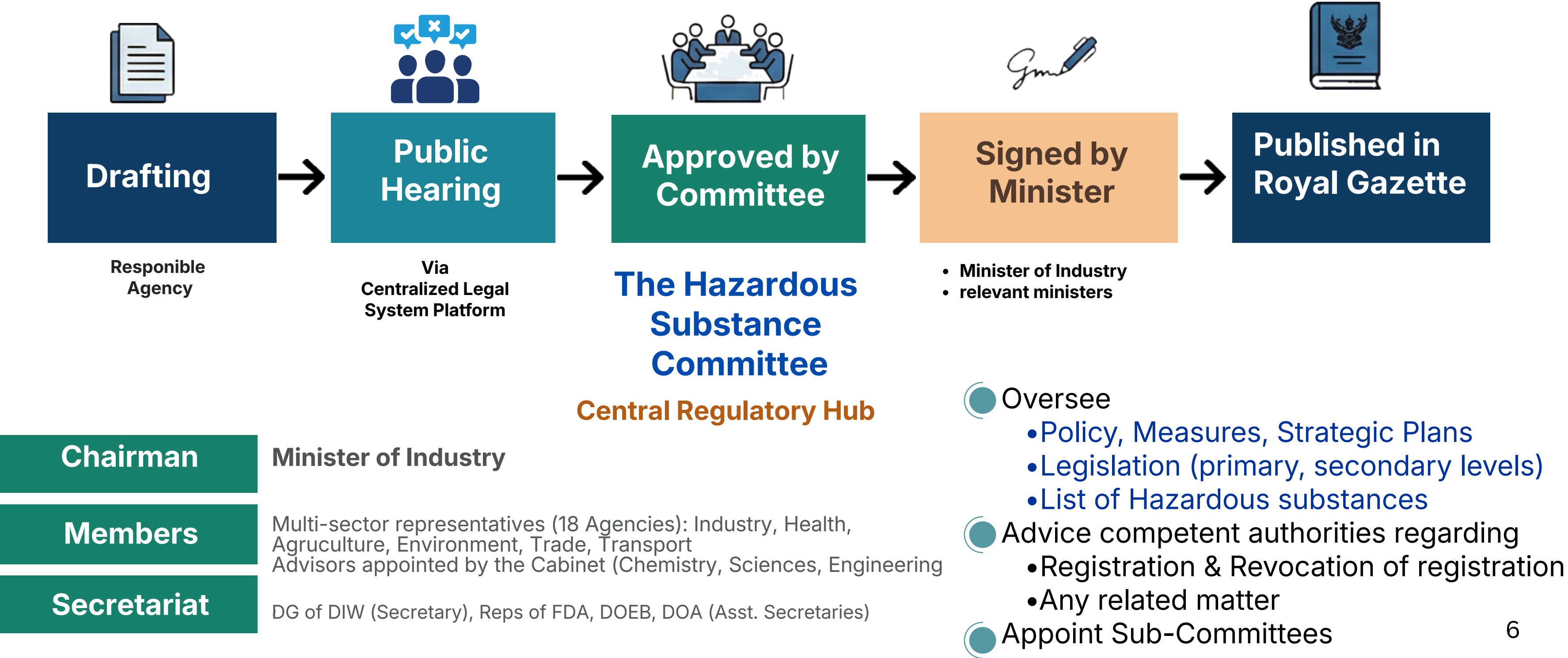


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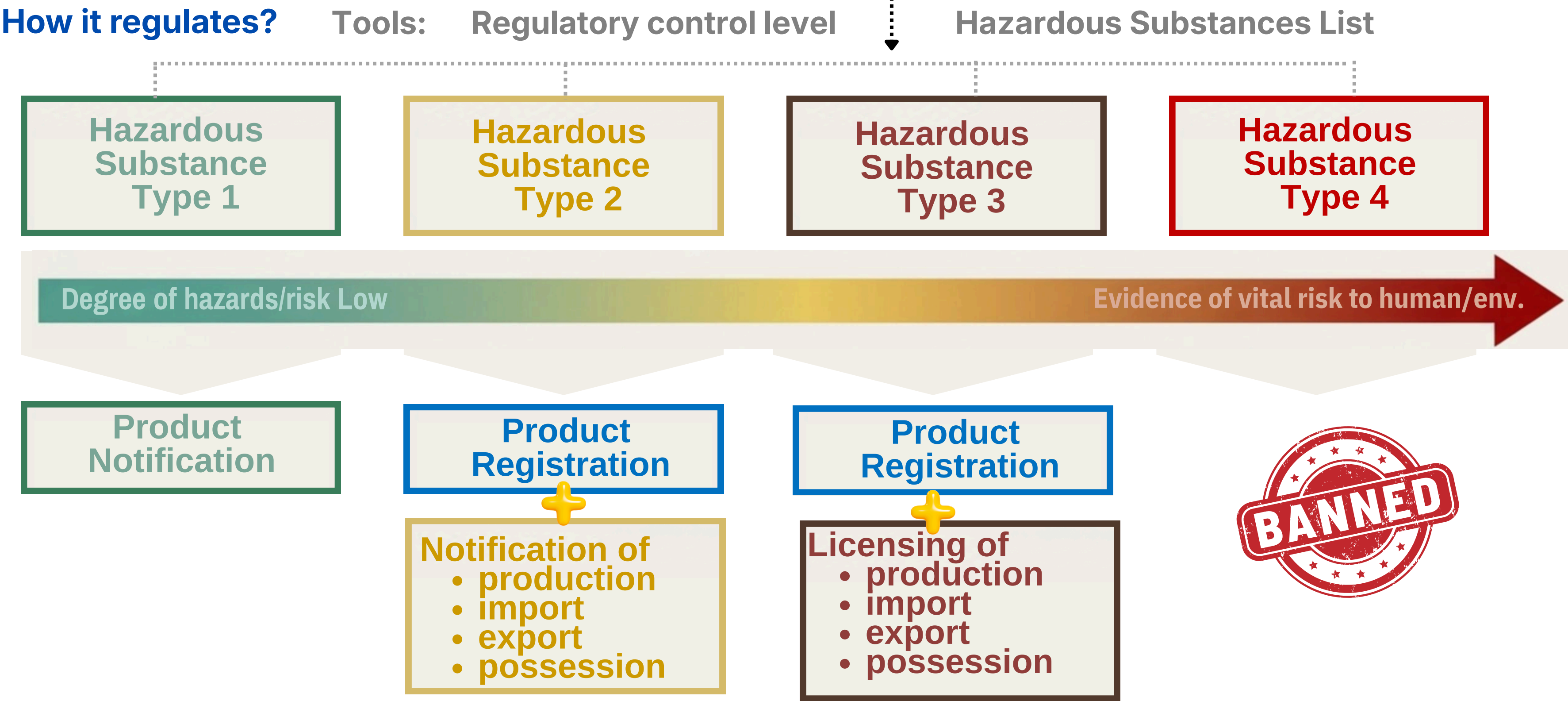
How it works?

The Regulatory Process: Inter-agency collaboration



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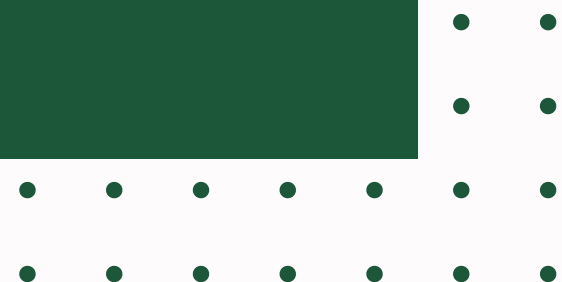


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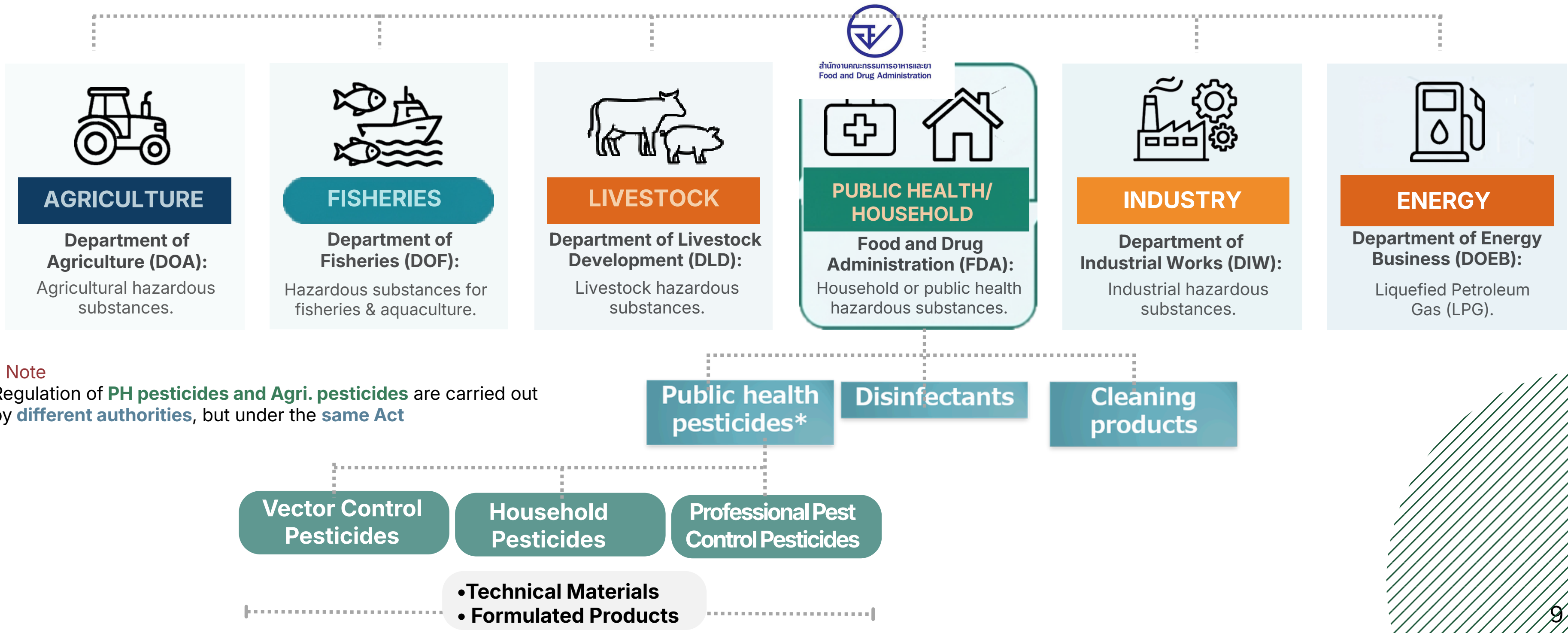
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Public Health Pesticide Management in Thailand

Governmental agencies and stakeholders involved in public health pesticide management

The 3 Pillars



Food and Drug Administration (Thai FDA)

- Legislative control of public health pesticides



Department of Disease Control

- Vector and vector-borne disease management



Department of Medical Sciences

- National Laboratory in Medical Sciences

The Network



Others

- Academic and research institutes
- Department of Health
- Department of Medical Services
- Department of Forestry
- Federation of Thai Industry / Industrial Sector
- Thailand Pest Management Association

Classification of public health pesticides according to Hazardous Substance Act B.E. 2535 (1992) and amendment

Activities under regulation: Production, Import, Export, Possession

Regulatory control level	Degree of hazards/risk  Evidence of vital risk to human/env.			
	H _z Sub Type 1	H _z Sub Type 2	H _z Sub Type 3	H _z Sub Type 4
Pre-marketing	Product Notification	Registration & Notify on the action taken in operation	Registration & Licensing on the action taken in operation	Ban!!! All activities are prohibited

Examples of public health and household pesticides according to the Hazardous Substance Act

		CHEMICAL NAME: fenoxycarb, methacrifos, plifinate PESTICIDE CATEGORY: insecticides, rodenticides, insect repellants, insect growth regulators, microbial larvicides	CHEMICAL NAME: DEET, temephos, fenitrothion, fenthion, propoxur, fipronil, imidacloprid PESTICIDE CATEGORY: pyrethrins & pyrethroids OTHERS: Bacillus thuringiensis	CHEMICAL NAME: DDT, aldrin, dieldrin, lindane, phosmet, parathion, chlorpyrifos
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Exemption

- ⚙️ Public health pesticides intended to use by government agencies and certain international organizations are exempt from the registration, notifying and licensing
- ⚙️ This exemption is to facilitate delivery of essential pesticide products to national, regional, and local public health and vector control agencies, especially in the urgent cases

Registration of public health pesticides in Thailand

The Dual Mandate of Product Registration



**Effective
for its
intended
purposes**

(Ensuring the product
successfully
controls the target
vector)



**Not pose an
unacceptable risk
to human or
animal health or
the environment**

The 5 Pillars of Assessment



**Assessment framework aligns with
international guidelines:
WHO, US EPA, ECHA (biocides), and APVMA.**

Product Labelling Requirement

Product Trade Name & Function

Display the trade name "ABC 2" and the purpose "Mosquito Killer".

Hazard pictogram & Signal word

Display GHS hazard symbols and signal words like "Warning" and "Flammable Aerosol".

Active ingredient content

List active ingredients and their concentrations in % W/W or % W/V, active constants uprilly



Warning & First-aid measures

Include warnings, storage instructions, and initial first-aid measures.

Direction for use

Provide clear instructions for proper product application.

Storage & handling

Detail the correct storage and handling requirements.

FDA Registration Mark

Display the official FDA mark and the product registration number.

Net content & Batch Details

Include net weight, manufacturing/expiry dates, and the batch number.

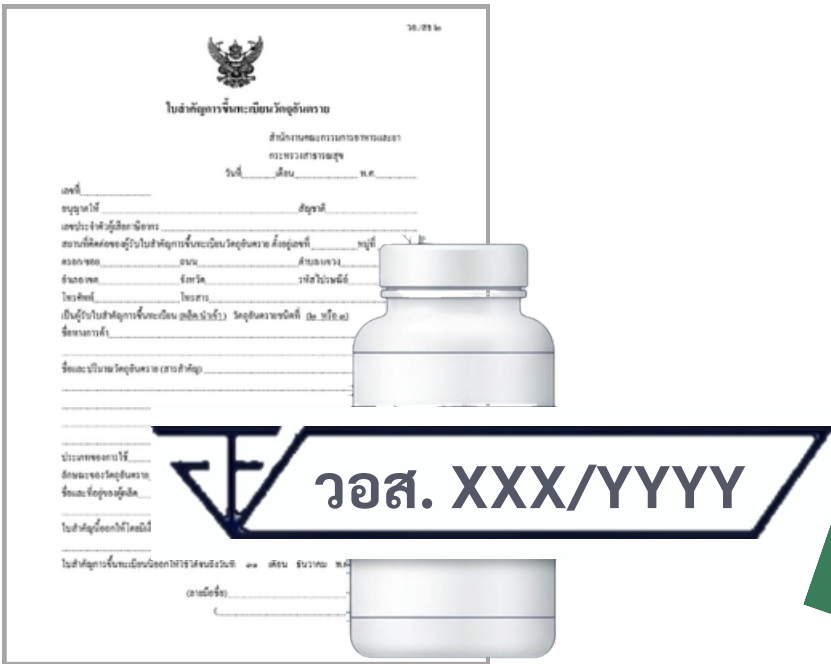
Criteria for Approval & Final Output

- ✓ Meet all regulatory requirements
- ✓ Meet efficacy & quality criteria
- ✓ Unlikely to pose unacceptable risks
- ✓ Meet labeling requirements

Approved Products (Output)

Issuance of Registration Certificate & Registration Number.

Mandatory Requirement: FDA Registration mark must be shown on the label.



Product Registration Logistics & Timeline



Submission & Data

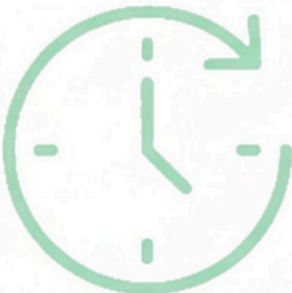
Requires Technical Dossier & General product information.

Fully digital process:
E-Submission/ E-Payment/
E-Review & Tracking /E-Certificate



Fee Structure

Application fee: 200 Baht (≈ \$6 USD)
Evaluation fee: 2,000 Baht (≈ \$60 USD)
Registration fee: 2,000 Baht (≈ \$60 USD)



Timeframe

48
Working-Days



Validity

6 Years

validity period, subject to renewal.

Public Health Pesticide at a Glance

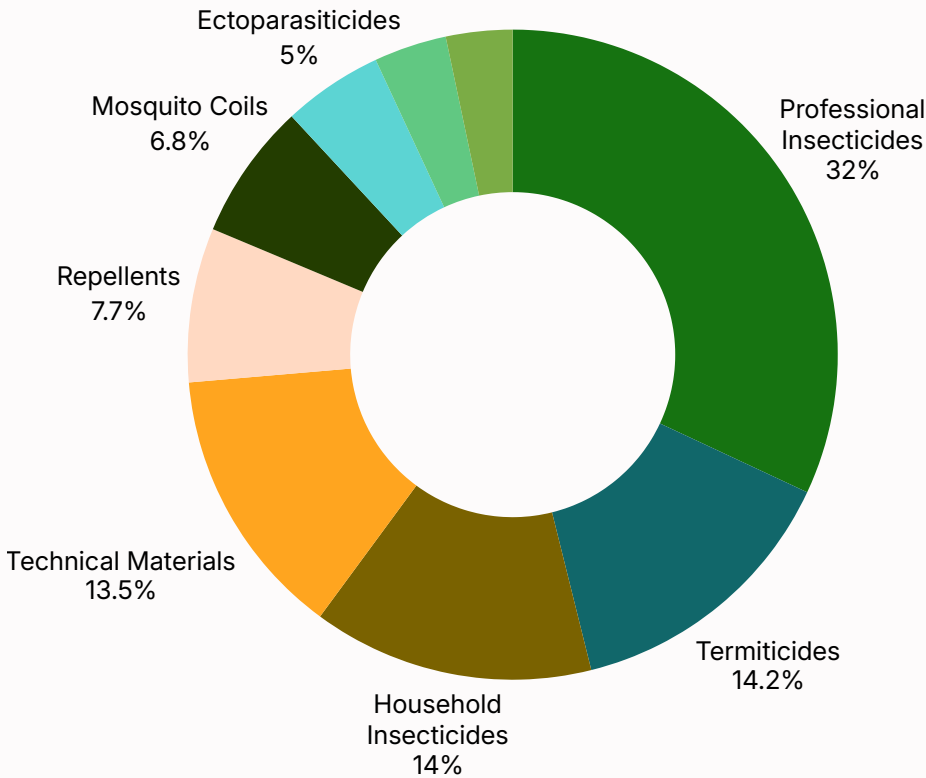
(Data as of May 31, 2026)

Total Number of Product Registration **3063**

INSIGHT 2: Top Product Categories

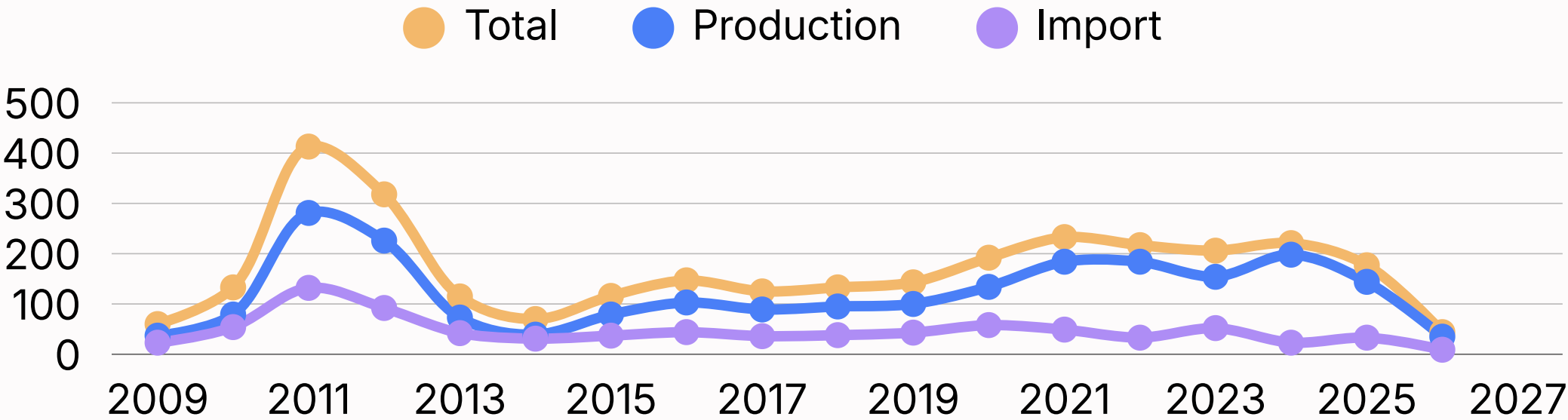
- PCO & Termite control = Products lead
- Household products = strong consumer demand

Professional Insecticides Termiticides Household Insecticides
Technical Materials Repellents Mosquito Coils
Ectoparasiticides Larvicides Rodenticides



INSIGHT 1: Registration Activity Over Time

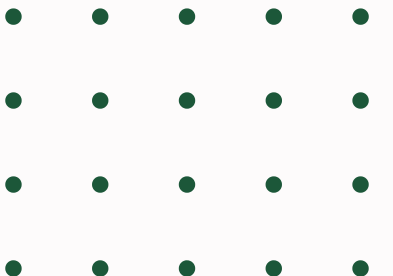
- Peak year: 2009 - 2011 Re-registration due to major amendment of HZ Act
- Production dominates / import declining
- Domestic production strengthening over time



INSIGHT 3: Top Active Ingredients

Active Ingredient	Registrations	% of Top 10
Cypermethrin	373	34.1%
Bifenthrin	155	14.2%
Fipronil	117	10.7%
Imidacloprid	114	10.4%
Permethrin	97	8.9%
Deltamethrin	86	7.9%
DEET	85	7.8%
alpha-Cypermethrin	29	2.6%
lambda-Cyhalothrin	25	2.3%
Transfluthrin	14	1.3%

- Pyrethroids dominate: Cypermethrin, Bifenthrin, Permethrin, Deltamethrin
- Fipronil & Imidacloprid: gaining market share for PCO & termite control
- DEET = only major repellent ingredient in top 10





Challenges

- Product Innovation
- New Active ingredients
- Wellness Trends
- Go Greens
- Digital Labelling



THANK YOU

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