

# Thailand and Regional Network

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**THAI EDUCATION FOUNDATION**



***The Field Alliance***

# Organization and governance

Thai Education Foundation	The Field Alliance
Registered 1997 TH	Registered 1997 US
Appointed Board	Appointed Board
National NGOs	Regional Network of NGOs, Govs, Academic
Ecological Agriculture for schools, colleges, and farmers, environmental education, pesticides studies	Ecological Agriculture, Pesticides Impacts to health and environment
Provide technical supports and capacity building to government programs	Exchange, disseminate, expand innovations in SE Asian +
Donors + Gov. contributions	Donors + Gov. contributions

# Toward the Non-Toxic Environment (2007 – 2018)

Tasks	The Field Alliance	PAN AP	FAO	Kemi (Sweden)
• Create awareness on the impacts of chemicals to health and environment	X	X		
• Capacity Building on IPM and alternatives	X		X	
• Regulatory control			X	
• Legislation				X



# The Field Alliance Partners

Countries	Partners	Target sites	National partners
Cambodia	Agriculture Technology Services Association (ATSA)	Kampong Chnang , Battambang	District Education Offices & Local gov.
Lao PDR	Community Development and Environment Conservation Foundation (CDECF)  Rural Development Sole, Co.Ltd.	Xaythany , Khammouan, Xieng Khuang, Huaphan	Local gov., MOE, FAO, MOH
Myanmar	Myanmar Institute for Integrated Development (MIID)	Southern Shan province	NGOs

Countries	Partners	Target sites	National partners
Philippines	Local Agricultural Extension Office	Davao De Norte	Local gov. DepEd.
Thailand	Thai Education Foundation (TEF)	Chiangmai, Prathumthani, Sakon Nakorn, Phanngna, FFS in 17 provinces	NFE, OBEC, FDA, DEQP, FAO, UNESCO, UNICEF
Vietnam	Initiatives on Community Empowerment for Rural Development (ICERD)	Phucho, Bac Giang, Quang Binh, Loa Cai, Yen Bai	Local gov., PPSD, PPD, MOES, NIEOH, FAO

# Rural Ecological Agriculture for Livelihood (REAL) Purposes

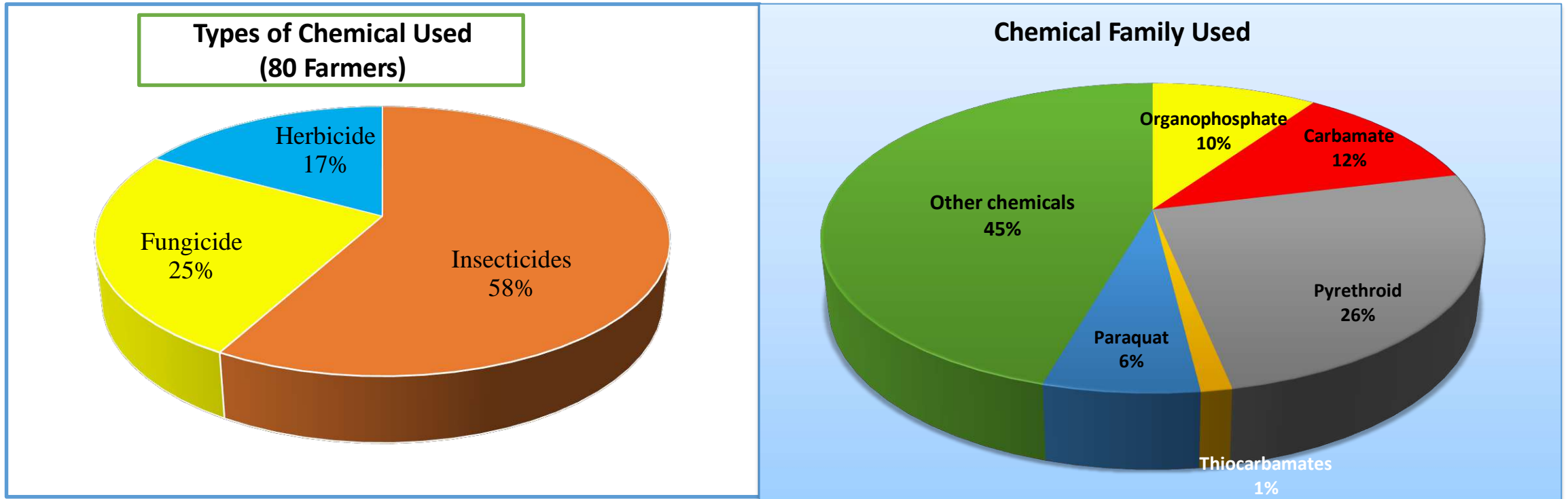
- Create awareness on the importance of the Agrobiodiversity and promote sustainable conservation and utilization
- Create awareness on the impacts of pesticides to health and environment and promote reduction of pesticides uses
- Build capacity for institutions on ecological agricultural practices/ IPM/ SRI, and etc.



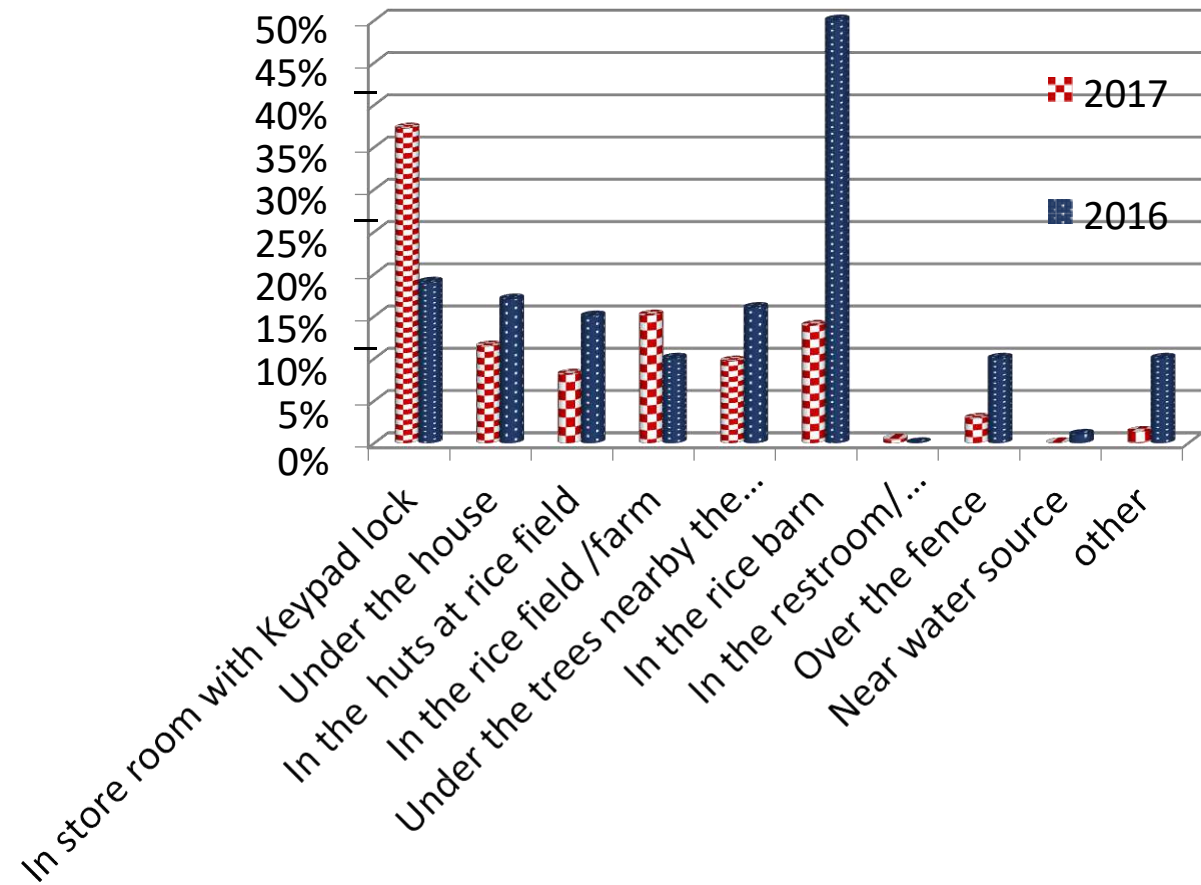
# Status of Pesticides Used (2016)

Country	Total Farmers	Location	Crops	Average Pesticides Used/ Ha/ yr.	Average Liters/ person/ yr.	Average Spray Days/ Person/ Yr.
Cambodia	215	Battambang	Rice, Cabbage, Yard long bean, Chilli	2,466	3,761	12
Lao PDR	43	Sungthong, Vientiane	Chili, tomato, eggplant, and chinese mustard	8,137	6,434	28
Myanmar	85	Southern Shan	Tomato, Mustard, Pea, Cabbage, Califlower, Orange, Cut flower	3,749	4,190	34
Thailand	296	Uttaradit, Pathum Thani, Sakon Nakhon	Rice, Corn, Sugarcane, Cassava, Calendula, Soybean, Chilli, Mango, Rubber tree, Bamboo, Orange, Zucchini, Lentils, Cucumber	1,102	4,724	10
Vietnam	390	Bac Giang, Yen Bai, Lao Cai	Rice , Vegetable, Cabbage, Potato, Kohlrabi, Sweet potato	3,492	1,016	22

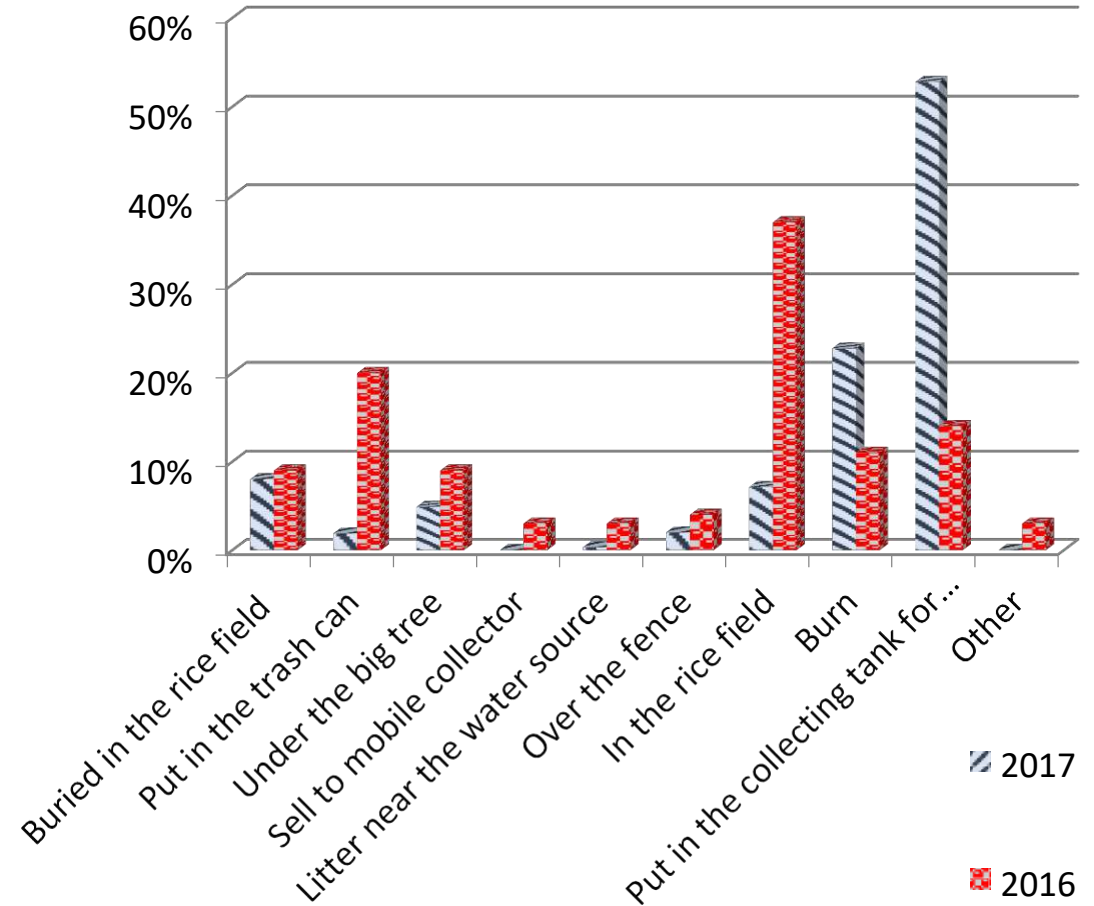
# Status of pesticides used in Thailand, 2016



# Storage

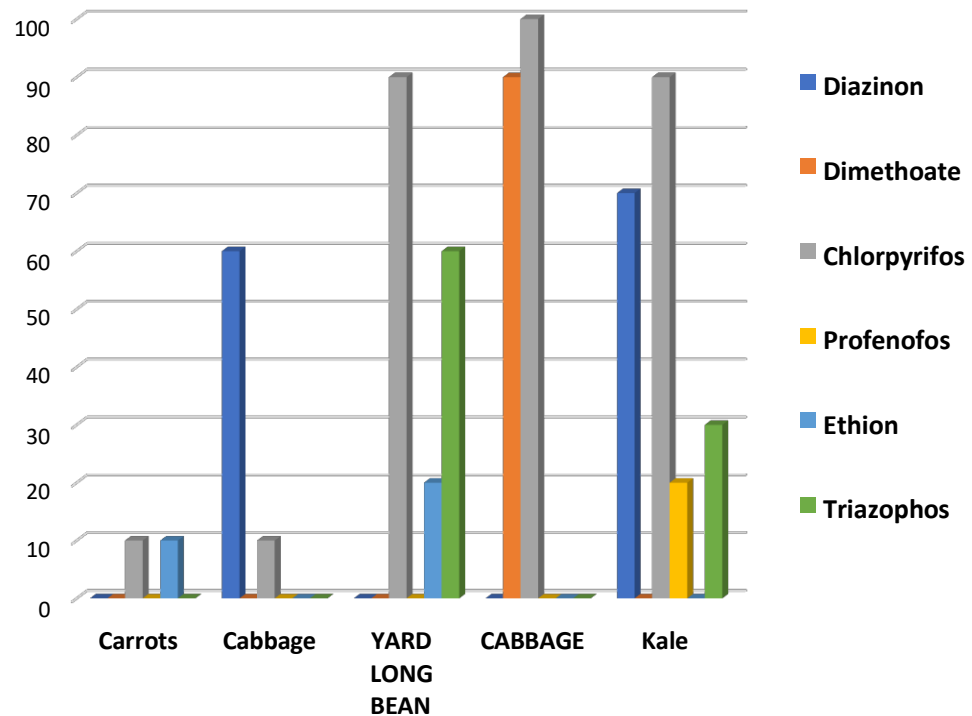


# Disposal

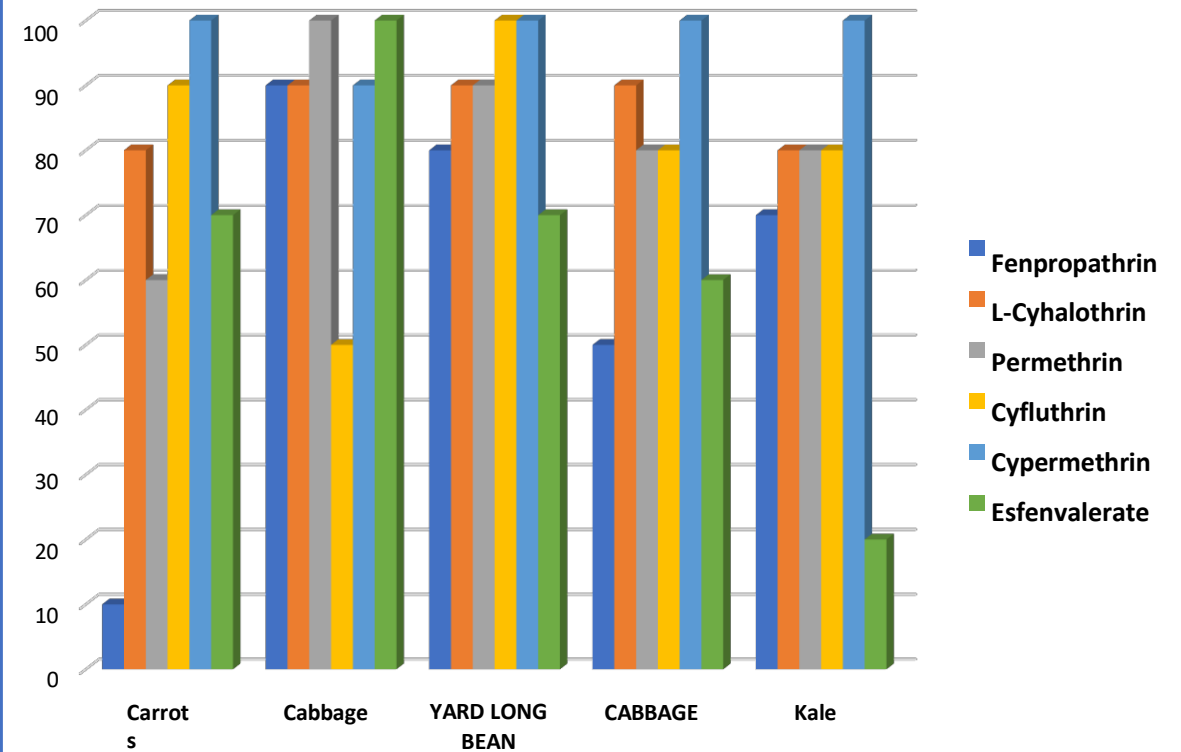


# Pesticides Residues in frequent used vegetables for school lunch

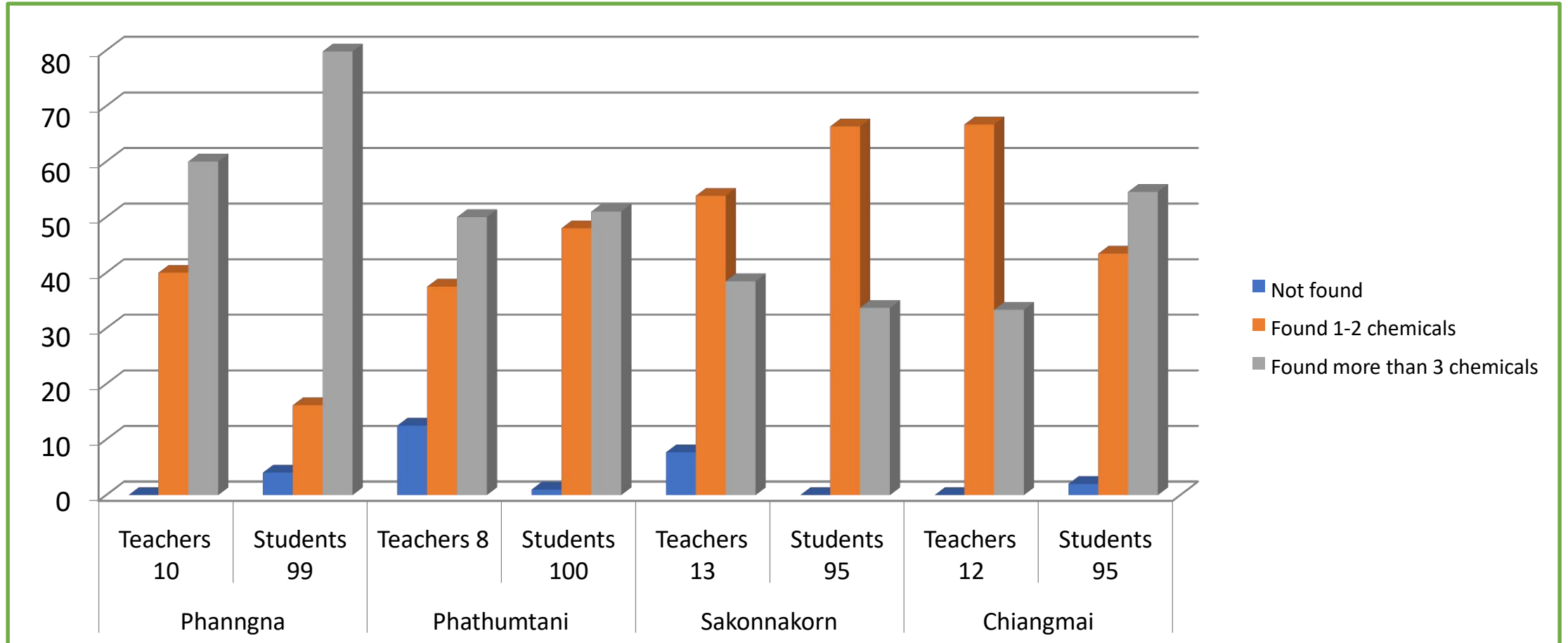
Percent of chemical (OP) residues in vegetables samples from Chiangmai Province



Percent of samples found PY residues, Chiangmai province, 2018



# Organophosphate chemicals detected in urine metabolites of students and teachers



# Affects from Chlorpyrifos

- Chlorpyrifos affects the human's neuro system,
- May cause learning disabilities, attention deficit hyperactivity disorder (ADHD), autism spectrum disorders, developmental delays, and emotional and behavioral problems
- Pregnant mothers who were pre- and postnatal exposed to Chlorpyrifos, has been linked with developmental disorders in children.
- It also has impacts to learning ability thinking and memorization skills and may impair their basic growth development throughout the rest of their life, delayed mental development, lower intelligence quotient (IQ), and ADHD.

# Challenges

## Positive:

- Policies for pesticides free school 2019, Ministry of Education
- Nutrition training included food safety, Ministry of Health
- Integrate studies of pesticides impacts to health and environment into National Strategic Plans (Pesticides containers management, Buffer Zones from Pesticides Sprays, Bio-controls)

## Negative:

- 80% of farmers still apply pesticides for commercial crops
- Produces are mixed up in distribution markets
- Schools are unable to buy pesticides free products in local markets

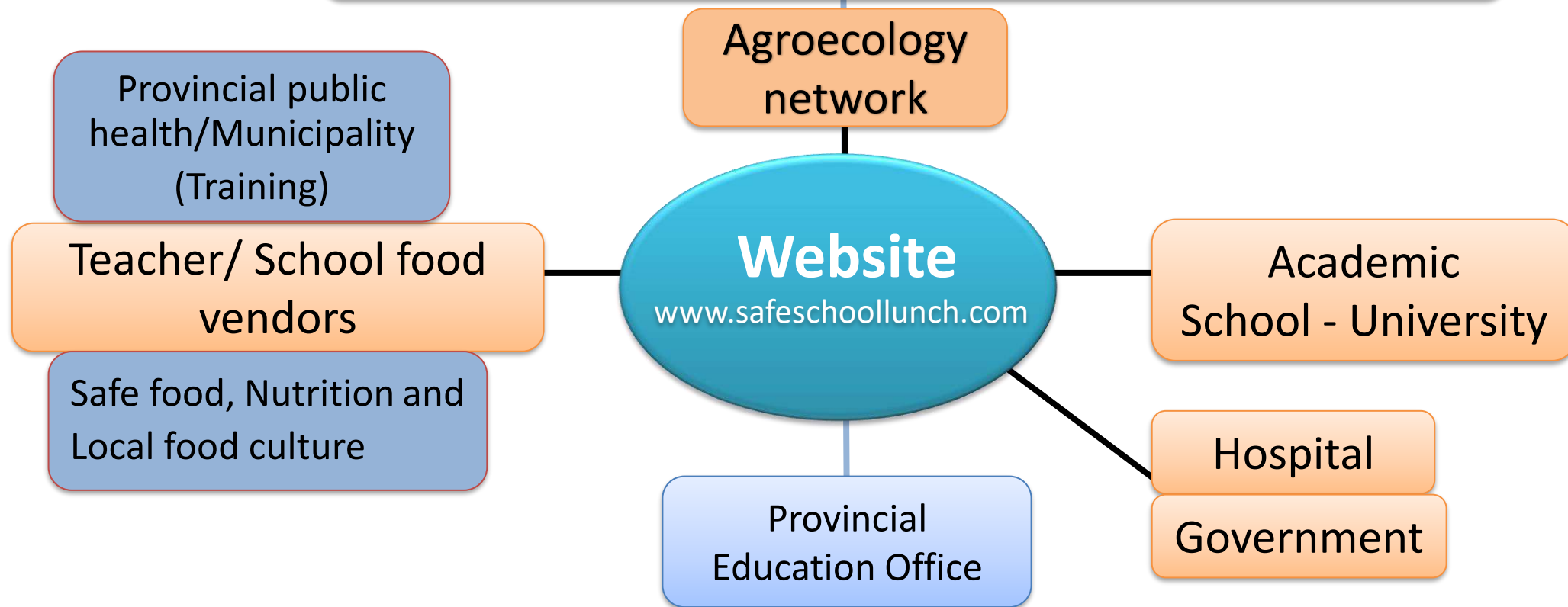
# Linking Agroecology For Safe School Lunch and Hospital

## Objectives:

- Build capacity of agroecology farmers to produce chemical free foods (vegetables, meat, and etc.) to supply to schools and hospitals
- Develop stable on-line market for farmers and systems for quality control and distributions of foods to target schools and hospital
- Share and disseminate the process to the national and regional policy makers and networks

# Linking Agroecology For Safe School Lunch and Hospital

Community Learning Center under Non-Formal Education  
. Train agroecology farming and mobile application



# Major Activities

- Agroecology
  - Curriculum Development TEF, Agriculture extension, Fisheries, Livestocks, NFE
  - Training of Trainers TEF
  - Training farmers & schools CLC-NFE + Agr.
- On-line market
  - Develop website linking AE farmers, schools and hospital ([www.safeschoollunch.com](http://www.safeschoollunch.com))
  - Review digital training curriculum CLC-NFE, Univ., TEF
  - Training farmers on mobile phone apps and social media CLC-NFE
- Regional Exchange and dissemination (Thailand, Vietnam, Laos, Nepal)
  - AE Curriculum, Digital training curriculum for farmers
  - AE Schools/ visits
  - National and Regional policy dialogues

Thank you

[www.thaied.org](http://www.thaied.org)

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