ACP-ACTAE project (2017-2018)

Agroecological Crop Protection in SEA

Regional Conference on Agroecology
Siem Reap, Cambodia
08-11 November 2018
ACP-ACTAE project

Presenters

Mr Thisadee Chounlamountry (Laos)
Dr Nwe Nwe Yin (Myanmar)
Dr Nguyen Thi Ngoc Truc (Vietnam)
Dr Dinh Thi Yen Phuong (Vietnam)
Pr Le Van Vang (Vietnam)
Mr Sereyboth (Cambodia)

("Towards Agroecology Transition in the Mekong Region").

Funder

Coordinator: Dr J.-P. Deguine
Introduction: context and issues in SEA

1) Increase of demands (in production, of food security, food safety, rapid changes, ...)
2) Climate change and natural resources management
3) Towards Agroecology
4) Crop Protection: chemical basis → not ecologically sustainable; side effects & negative impacts (Human health, environment)

It’s needed
- to answer to the current demands (socio-economic, ...)
- to anticipate answers to the future demand (ecology, socio-economic, environment, health, ...)

ACP-ACTAE project
Introduction: ACP-ACTAE project

- opening a new page on Agroecology in the CANSEA platform activities in South East Asia

- devoted to Agroecological Crop Protection (ACP)

- a framework to start basic activities (survey, exchange of information, training)
Introduction: ACP-ACTAE project

- an advantage to build further collaborations

- overall objective: by starting and promoting activities in ACP, to contribute to the global development of Agroecology in SEA
Introduction: what is ACP?

- declension of Agroecology to Crop Protection
- an essential field of agroecosystem management
- entirely coherent and complementary with Conservation Agriculture
Sustainable Development issues

3 pillars: social, economic, environmental

Agroecology
Agroecological Crop Protection in SEA

Sustainable Development issues

3 pillars: social, economic, environmental

Health issue

Ecological issue

Agroecology

ACP-ACTAE project
Agroecological Crop Protection inSEA

Sustainable Development issues

3 pillars: social, economic, environmental

Health issue

Ecological issue

Agroecology

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Sustainable Development issues

3 pillars: social, economic, environmental

Health issue

Ecological issue

Agroecology

Positive consequences!

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Agroecological Crop Protection in SEA

Sustainable Development issues

3 pillars: social, economic, environmental

+ e.g. reduction of pesticides

Agroecology

Health issue

Ecological issue

Positive consequences!

ACP-ACTAE project
Introduction: what is ACP?

declension of Agroecology to Crop Protection

Agroecological Crop Protection inSEA

ACP-ACTAE project
Introduction: what is ACP?

- **two main axes**: to improve soil health and to promote biodiversity in agroecosystems

- **three pillars**: preventive measures, conservation biological control, habitat management

- **chemical protection**: as a last resort, not at the beginning (as usals)
Introduction: what is ACP?

now well documented
Overall objectives of the ACP-ACTAE project
- a co-designed ACP-ACTAE project
- answering to the need and the demand of Agroecology in Crop Protection in the framework of the CANSEA platform

to have the same level of information on ACP (sharing concerns, exchanging information, writing collectively, training, identifying axis of further collaborations)
Specific objectives of the ACP-ACTAE project

- making a state of Crop Protection in the area and identifying the priority problematics of Crop Protection that are to be taken into account;
- training and information exchanging on ACP for different stakeholders (researchers, extension officers, stakeholders, growers);
- building the foundation of an ACP further collaborations integrating research, training, education and extension support, with the partners of the CANSEA area.
Agroecological Crop Protection in SEA

Agroecological Crop Protection (ACP) Proposal 2017-2018

Axis 1. Establishing the status of crop protection in SEA and identifying ACP prioritary research axes

Action 1. Collective paper "Towards Agroecological Crop Protection in SEA"

Axis 2. Exchanging information and training on ACP

Action 2. Implementation of brochures, posters and flyers on ACP

Action 3. Organisation of national and regional workshopson ACP

Action 4. Organisation of an International Scientist School

Axis 3. Designing a medium term collaboration on ACP-SEA (2019-2024)

Action 5. Organisation of a regional seminar "Towards a partnership medium term dynamics on ACP in SEA"
Agroecological Crop Protection in SEA

Results and deliverables

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<td>In progress</td>
<td>2 structures of collective papers, 1 in Myanmar, 1 in Vietnam</td>
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<td>Collective brochure</td>
<td>Brochure (4 pages)</td>
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<td>Identifying future collaboration</td>
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<td>Golden ants as agents of conservation (Biological Control)</td>
<td>Field visit in South Vietnam (March 2018)</td>
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<td>Scientific exchanges</td>
<td>Scientific visit by Vietnamese colleagues (Dr. DINH &amp; NGUYEN, 3-27 June 2018, Reunion island)</td>
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<td>Final report (summaries and conclusions) of ACP-ACTAE project, Presentation (ppt) of ACP-ACTAE results</td>
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1. Collective papers on Agroecological Crop Protection in South East Asia

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<td>Conclusion</td>
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2 collective papers in progress (Myanmar, Vietnam)

i.e. "Crop Protection in Myanmar: from Agrochemistry to Agroecology?"
1. Collective papers on Agroecological Crop Protection in South East Asia

Collective brochure ACP in SEA

English, Vietnamese, Burmese, Khmer, Lao
Agroecological Crop Protection in SEA

1. Collective papers on Agroecological Crop Protection in South East Asia

Collective brochure ACP in SEA

English, Vietnamese, Burmese, Khmer, Lao

4 pages

Cosigned by all partners
Agroecological Crop Protection in SEA

2. Implementation of flyers, brochures and posters on Agroecological Crop Protection in SEA

1 brochure on Agroecological Crop Protection (4 pages, English, Vietnamese, Burmese, Khmer and Lao)

2 Flyers on Main Fruit Flies in Vietnam (1 page, English and Vietnamese)

5 posters on conservation biological control (1 page, English and Vietnamese)

1 poster on beneficiafs (1 page, English and Vietnamese)
Agroecological Crop Protection in SEA

2. Implementation of flyers, brochures and posters on Agroecological Crop Protection in SEA

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5 posters on conservation biological control (1 page, English and Vietnamese)

1 poster on beneficials (1 page, English and Vietnamese)

Cosigned by all partners

ACP-ACTAE project
2. Implementation of flyers, brochures, and posters on Agroecological Crop Protection

1 brochure on Agroecological Crop Protection
2. Implementation of flyers, brochures and posters on Agroecological Crop Protection in SEA

2 flyers on Fruit Flies
2. Implementation of flyers, brochures and posters on Agroecological Crop Protection in SEA

5 posters on Conservation Biological Control
2. Implementation of flyers, brochures and posters on Agroecological Crop Protection in SEA

- 5 posters on Conservation Biological Control
2. Implementation of flyers, brochures and posters on Agroecological Crop Protection in SEA

1 poster on Beneficials
3. Producing augmentoriums in Vietnam for Agroecological Management of Fruit Flies
3. Producing augmentoriums in Vietnam for Agroecological Management of Fruit Flies
3. Producing augmentoriums in Vietnam for Agroecological Management of Fruit Flies

Compost producing tool
4. Organization of three national and regional workshops (Vietnam and Myanmar, April-May-August 2017)

a national WS in Hanoi (Vietnam, 25-26 April, 2017), 24 participants, 15 organizations

a national WS in Nay Pyi Taw (Myanmar, 3-5 May, 2017), 40 participants, 5 organizations

a regional WS in My Tho (Vietnam, 29-31, August 2017), 36 participants, 20 organizations
4. Organization of three national and regional workshops (Vietnam and Myanmar, April to August 2017)

http://www.agriculture-biodiversite-oi.org/en/content/view/full/7942
Agroecological Crop Protection in SEA

4. Organization of three national and regional workshops (Vietnam and Myanmar, April - August 2017)

http://www.agriculture-biodiversite-oi.org/en/content/view/full/7944

Co-organized

cirad

ACP-ACTAE Project
Agroecological Crop Protection

Minutes of the ACP Workshop
Nay Pyi Taw, Myanmar
(3 - 4 May 2017)
4. Organization of three national and regional workshops (Vietnam and Myanmar, April-August 2017)

http://www.agriculture-biodiversite-oii.org/en/content/view/full/7943

Co-organized by CIRAD, AFD, and ACTAE.
5. Participation of a colleague from Vietnam to the International Scientist School held in Volterra (Italy), 11-16 February 2018

Dr Nguyen Thi Ngoc Truc (Sofri, Vietnam)

- Participant in Volterra
- Lecturer in Can Tho (ISS)
5. Participation of a colleague from Vietnam to the International Scientist School held in Volterra (Italy), 11-16 February 2018.

Dr Nguyen Thi Ngoc Truc (Sofri, Vietnam)

- Participant
- Lecturer in Can Tho (ISS)

https://www.youtube.com/watch?v=9sjK2fkCz7k&t=38s

An International Scientist School,
25 participants, 8 lecturers, 4 SEA countries
2 participants in Volterra became lecturers in Can Tho
Agroecological Crop Protection in SEA


An International Scientist School, 25 participants, 8 lecturers, 4 SEA countries
2 participants in Volterra became lecturers

Co-organized by

ACP-ACTAE project

Co-organized by ACP-ACTAE project, Can Tho University and AFD.

25 participants, 8 lecturers, 4 SEA countries.
2 participants in Volterra became lecturers.

http://www.agriculture-biodiversite-oil.org/en/content/view/full/7941
6. Scientific visit of two Vietnamese colleagues in CIRAD Réunion (3-27 June 2018)

Dr Nguyen Thi Ngoc Truc (SOFRI) and Dr Dinh Thi Yen Phuong (IFAM)
6. Scientific visit of two Vietnamese colleagues in CIRAD Réunion (3-27 June 2018)

Dr Nguyen Thi Ngoc Truc (SOFRI) and Dr Dinh Thi Yen Phuong (IFAM)
7. Movies and videos on ACP in SEA

- 31 Presentations in ISS Can Tho
- 1 video on the Twin International Scientist Schools: Volterra (Italy) and Can Tho (Vietnam)
- 4 Movies on using weaver ants in citrus orchards in Vietnam
8. Creation of a YouTube channel: Agroecological Crop Protection Network

To host the movies and videos of the project

https://www.youtube.com/channel/UCBhvIseS2neAQPg7nbW1iQ/videos?view_as=subscriber
Agroecological Crop Protection inSEA

9. Web Page for ACP-ACTAE resources
to present the project and its activities
host the resources of the project

Already available

In progress
http://cansea.org.vn

ACP-ACTAE project
10. Participation of six SEA colleagues to the ACTAE final conference held in Siem Reap (Cambodia), 8-11 November 2018
Agroecological Crop Protection in SEA

Conclusion: a new ACP dynamics in SEA

ACP ACTAE Project

2016  2017  2018

Collective review
Brochures & Flyers
Workshops
Summer Scientist School

ACP dynamics

ACP-ACTAE project
Conclusion: Partners involved in ACP dynamics in SEA

Myanmar (under the Ministry of Agriculture, Livestock and Irrigation (MoALI))
- Department of Agriculture - DOA (DG, DDG, researchers from Land Use Division and Plant Protection Division, officers from Inle Lake District - Extension Department),
- Department of Agricultural Research – DAR (DG, DDG, Researchers)
- Yezin Agricultural University (Rector, Vice-rectors and professors)
- NGOs.
Conclusion: Partners involved in ACP dynamics in SEA

Laos (under the Ministry of Agriculture and Forestry – MAF)
- DALaM (Department of Agricultural Land Management)
- PPC (Plant Protection Center).

Cambodia
- Royal University of Agriculture;
- CASC (Conservation Agriculture Service Center) under the GDA (General Directorate of Agriculture).
Vietnam
- Research Institutes under the Ministry of Agriculture and Rural Development (MARD): VAAS (Vietnam Academy of Agricultural Sciences), SOFRI (Southern Horticultural Research Institute), NOMAFSI (Northern Mountainous Agriculture and Forestry Science Institute), PPRI (Plant Protection Research Institute), SFRI (Soils and Fertilizers Research Institute), FAVRI (Fruit and Vegetable Research Institute)
- Universities: Nong Lam University in Ho Chi Minh City, Can Tho University, Hanoi National University of Education, Hue University of Agriculture and Forestry, Tay Bac University, An Giang University, Tra Vinh University
- Other Vietnamese partners: VOAA (Vietnam Organic Agriculture Association), IFAM (Nu Hoang Institute for Fruit Trees and Macadamia), Lam Dong Sub Plant Protection Department (Dalat), BIO PHAP, HAGL, UNIFARM
Conclusion: Partners involved in ACP dynamics in SEA

**International Organizations:**
- CIRAD (International Center of Agronomic research for Development),
- CIAT (International Center for Tropical Agriculture),
- ACIAR (Australian Centre for International Agricultural Research),
- CABI (Centre for Agriculture and Biosciences International).
Thanks

AFD for funding this project

Dr Philippe Cao Van (coordinator of ACTAE)

All the partners involved

For your attention