



Ecosystem Services and Land Use research center

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ALISEA GENERAL ASSEMBLY WORKSHOP “Towards an Agroecology Transition”
Siem Reap, CAMBODIA
21 st – 22 nd of March 2017



Content



Organization presentation

Important projects related to Agroecology

Perspective and Challenge to scale up
Agroecology adoption



Organization presentation



Short history

- 2010: Rural Team created by young lecturer-researchers of RUA, RUPP and some others non-academic members.
- December 2013: ECOLAND created by young researchers based at RUA mainly in economics field (agricultural and ecosystem/environmental economics).

Research themes

- Understanding flood based farming systems in Cambodia
- Innovation and transition in Cambodian agriculture
- Conservation, biodiversity issues Livelihood systems

- TEAM STRUCTURE

- Dr.. Neang Malyne, Leader
- Dr. Yoeu Asikin, Vice-leader
- Mr. SOK Kimchhin, Assistant

- 1 permanent scientific assistant from IRD

- Volunteers



Important projects related Agro-ecology

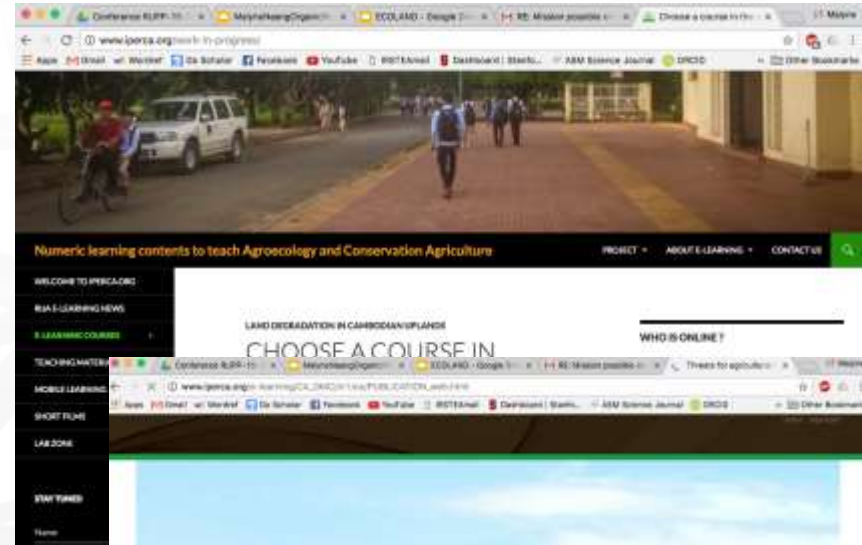


Innovative Pedagogical Resources in Conservation Agriculture for South-East Asia (IPERCA) project



Designing numeric learning contents to teach Agroecology in Cambodia

Florent Tivet, Malyne Neang, Lyda Hok, Rada Kong, Guillaume Lestrelin, Samell Keo, Chancheakdey Dork, Fazy Man, Stéphane de Tourdonnet, and Sarah Clerquin





Important projects related Agro-ecology



Collaborate with Louvain Cooperation

Evaluate smallholders farming system

“Sustainable agriculture”

Social, environmental and economic benefit





Important projects related Agro-ecology



Promoting floating rice-based agro-ecological farming systems for a healthy society and adaptation to climate changes in the Lower Mekong Region and Myanmar

Lesson learn from Vietnam

Floating rotated with others cast crop

- Floating rice with high price but still not the main income
- Cassava: 138USD/1000m²
- Pumpkin: 215 USD/m²
- Allium Chinense : 1088 USD/1000m²
- More benefits
- Eco-tourism
- Fish and others agro-biodiversity species

Trade of between Ecosystem Services (ES) and Ecosystem Dis-services (EDS) from short-term rice



ES:
High Provisioning services
- High Yield

Trade of between Ecosystem Services (ES) and Ecosystem Dis-services (EDS) from floating rice



Low provisioning service:

- Low yield

Other provisioning serves:

- NTFPs
- Fish, Vegetables and other agro-biodiversity
- Grazing
- Fire wood

Others ES:

Regulating service:

- Flood regulation, Habitat and Biodiversity
- soil formation from deposit
- Preserve fauna, flora and amphibians of rice fields. No chemical residue leaching into water.
- soil biodiversity and water quality





Important projects related Agro-ecology



Measuring impacts of conservation interventions on human well-being and the environment in Northern Cambodia

Measure the environmental-social-economic Impact of PES on 3 project: MAE for Ibis Rice, Ecotourism, Bird Conservation

This is where you will stay in Tmatboey Ecologe



Giant Ibis by Allan Michaud

Cambodia's national bird, the Giant Ibis (*Pseudibis gigantea*). This is where you can see the Giant Ibis. Several of the Ibis Rice Paddies can be reached through Sam Veang Community Wildlife Conservation, www.wildlife.org.kh



White-shouldered Ibis by Ashish John

White-shouldered Ibis (*Pseudibis davisoni*) can sometimes be found foraging in the Ibis Rice Paddies, like this one, in the Preah Vihear Protected Forest.



school, Tmatboey Village
many school children in one of the two small schools in the village



Important projects related Agro-ecology



Some consultancies with conservation NGOs to influence Government to integrate Ecosystem Services conservation in policy.

- Awareness raising
- Cost-benefits modelling
- Strategy to mainstream and integrate ES in Policy making.





Perspective and Challenge to scale up Agroecology adoption



Switch, *Dare to change!*

From Self initiative => How people can find the courage to change?

From outside => How to guide them for change?

Elephant : Emotional side => how to motivate the elephant? "Attraction"

Driver: Rational side => How to convince the driver for change?

"Reason and clear guideline"

My son when he was 11 years olds: *"Khmer is incapable to think in system, they think and act on only one element of the system only. It is why when they do something they will impact negatively the others elements of the system and then the system collapse".*

Agroecology farming is a system, a harmony of all the living thing interact on each others creating an ecological balance on an agro-ecosystem managed by farmers.

"Think in system, build an autonomous system"



Thank you for your attention

