LMI LUSES HIGHLIGHTS, 2012-2016

An International Joint Laboratory (LMI) is an IRD tool which allows several partners to conduct multidisciplinary research projects around a common scientific platform. Created in 2012, LUSES' specificity is its regional dimension based on a network of partners of 7 Southeast Asian institutes and 2 French institutes through 3 French research units.

OBJECTIVE

To develop research capacity building on the impact of agriculture on soil and associated ecosystem services (nutrient cycling, water cycle, carbon sequestration etc.). This integrative approach is based on a multidisciplinary team (soil scientists, microbiologists, ecologists, agronomists).



ACTING IN PARTNERSHIP

France: UMR ECO&SOL: (INRA, IRD, Supagro et CIRAD); UMR IESS. (IRD, INRA, CNRS AgroParistech, Paris VI et Paris XII, ENS), UMR GET (IRD, CNRS, CNAP, CNES, Toulouse III Paul Sabatier).

Thaïland: Land Development Department (LDD Bangkok). Kasetsart University (KU). Khon Kaen University (KKU).

Laos: Agriculture Land Research Centre (ALRC). National University of Laos (NUoL). Vietnam: Soil and Fertilizer Research Institure (SFRI), Institute of Chemistry (ICH).



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SCIENTIFIC ORGANISATION

LUSES organization is based on 3 scientific programs:

Organic Matter Management (OMM) : Respective effect of compost and vermicompost on soil and plant. Direction: Nicolas Botinelli (IRD, Vietnam) and Thuy Doan Thui (SFRI Vietnam)

Environnemental impact of tree plantations : Characterize the impact of tree plantations (mainly Rubber and Teck) on soil biodiversity and associated soil services (carbon cycle, nutrients cycle). Direction : Alain Brauman (IRD, Thailand) and Supat Isarangkool (KKU, Thailand)

ECOFILTER : Effect of land use on stream-ground water interactions in critical zone in tropical agrosystem. Direction: Olivier Ribolzi (IRD, France), Oloth Sengtaheuanghoung (Dalam, Lao PDR)

CAPACITY BUILDING

LUSES contributed to the reinforcement of partners building capacities by the implementation of :

- A biological platform in LDD. This laboratory benefits of modern equipment with an estimated value of 142.000 € co-financed by LDD and IRD.
- A network of soil analysis inter-calibration in the southern region SEA, called SEALNET (South East Asia Laboratory NETwork) which gather more than 19 laboratories.
- More than 20 regional collective training involving around 350 Asian partners: from specific training (on a technique) to more general ones such as data analysis or English paper writing.
- The financial support of more than 20 students including 7 Asian PhD students

SCIENTIFIC VISIBILITY AND VALORISATION

- Since 2012, LMI LUSES members has been able to lead or co-lead 12 Scientifics projects for a total amount of 1.500.000 € including two French ANR research programs
- LUSES partners has produced more than 20 scientific papers in ISI-WoS journals and has presented 45 oral communications.
- LUSES has participated in the organization of 4 national and international congress and organize an annual meeting every year where all partners are able to present their work.

IMPACT

- Development of moderns platforms (laboratory and fieldwork) at regional scale
- Partners training to conceptual and methodological aspects of ecology and soil protection
- Development of inter laboratory quality network in South East Asia
- Insertion of partners in international projects
- Development of IRD CIRAD collaboration about environmental impact of tree plantations





CONTACT



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