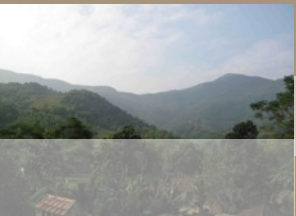
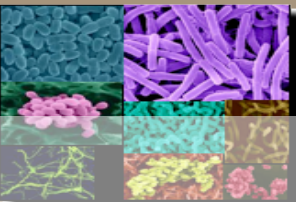


LAND USE CHANGES AND SOIL ECOSYSTEM SERVICES



Sabaidee

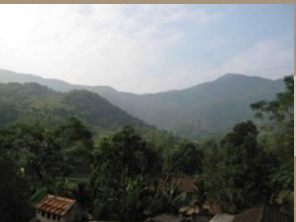
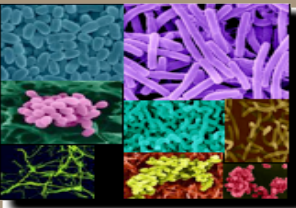
Chinghow

Sawasdee krap

Welcome

Bonjour

THANKS TO

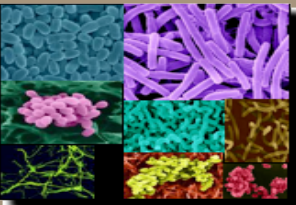


K. Mim



K. Oat

AND
THE LDD STAFF



LUSES KOM OBJECTIVES AND OUTCOMES

OBJECTIVE OF THIS KOM

1- Develop interactions and relationships between LUSES participants

- Presentation of institutions
- Parallel sessions
- Dinner

2- Specify the scientific scope of LUSES

- Parallel Session 1 on WP

3- Determine the main priorities over the next 3 years

- Parallel Session 2 (training and capacity building)

4- Specify the organization of the project, budget priorities, where the next meeting will be held, etc.

- Parallel Session 2 (organization)
- Steering Committee

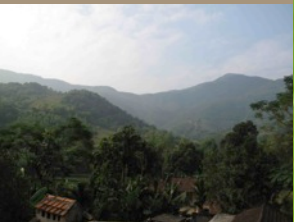
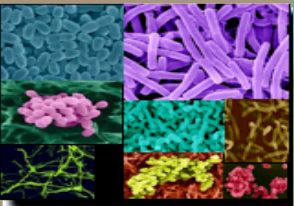


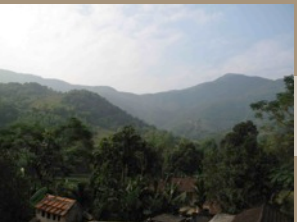
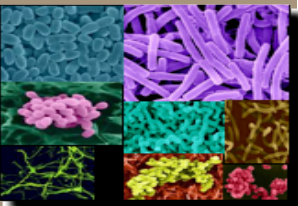
WHY WE NEED TO INCREASE OUR LINK ?

GOOD PLAYERS DO NOT ALWAYS MAKE A GOOD TEAM !



France vs Japan 0-1





IRD
Institut de recherche
pour le développement



**JOINT PROJECT
LMI-LUSES**



cirad
LA COOPÉRATION INTERNATIONALE
EN RECHERCHE AGRONOME
POUR LE DÉVELOPPEMENT





LUSES BRINGS TOGETHER SCIENTISTS FROM A WIDE RANGE OF DISCIPLINES IN SOIL AND AGRONOMIC SCIENCE



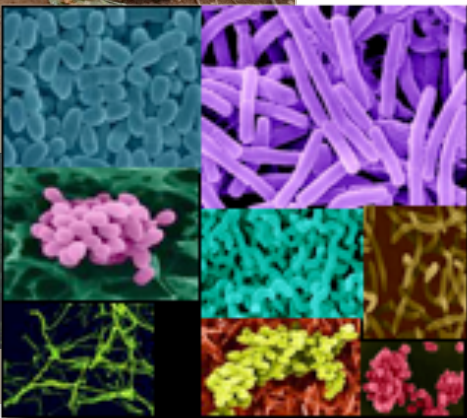
Soil scientists



Geophysicists



Biochemists



Microbiologists



Soil biologists



Ecophysiologicalists



Soil hydrologists



WHERE DO WE COME FROM?

LUSES IS BUILT ON A LONG HISTORY OF COLLABORATION

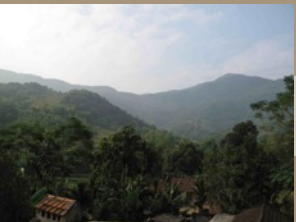
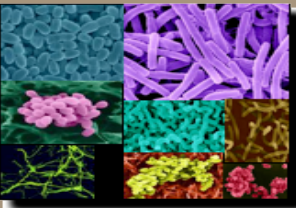


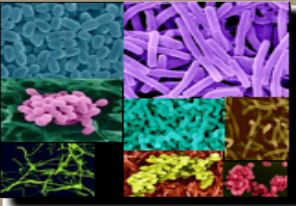
IRD researchers (and their UMRs) have collaborated with the institutions involved in LUSES for over 15 years

- Since 1995 in Thailand (LDD, KKU and KU)
- Since 1998 in Laos (NAFRI and NUoL MSEC).
- Since 1998 in Vietnam (SFRI and ICH)



They have built a fruitful partnership in the domain of agronomic and soil science research with national and international institutions (IWMI, ICRAF, AFD, French ANR)

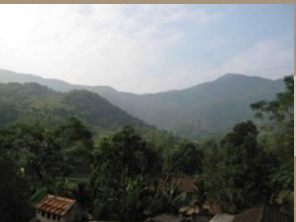
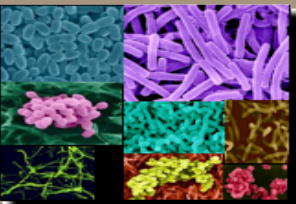




LMI'S POWER IS ROOTED IN ITS REGIONAL-SCALE ACTIONS



SPECIFY THE SCIENTIFIC SCOPE OF LUSES



LAND USE CHANGES AND SOIL ECOSYSTEM SERVICES?

Purpose of this concept is to characterize the way in which the earth's ecosystems benefit humanity

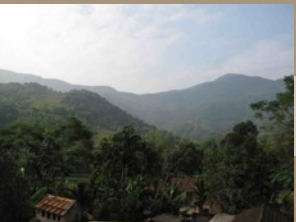
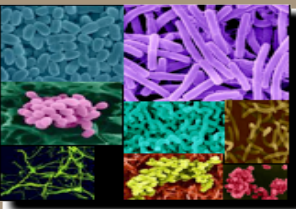


Apply to soil

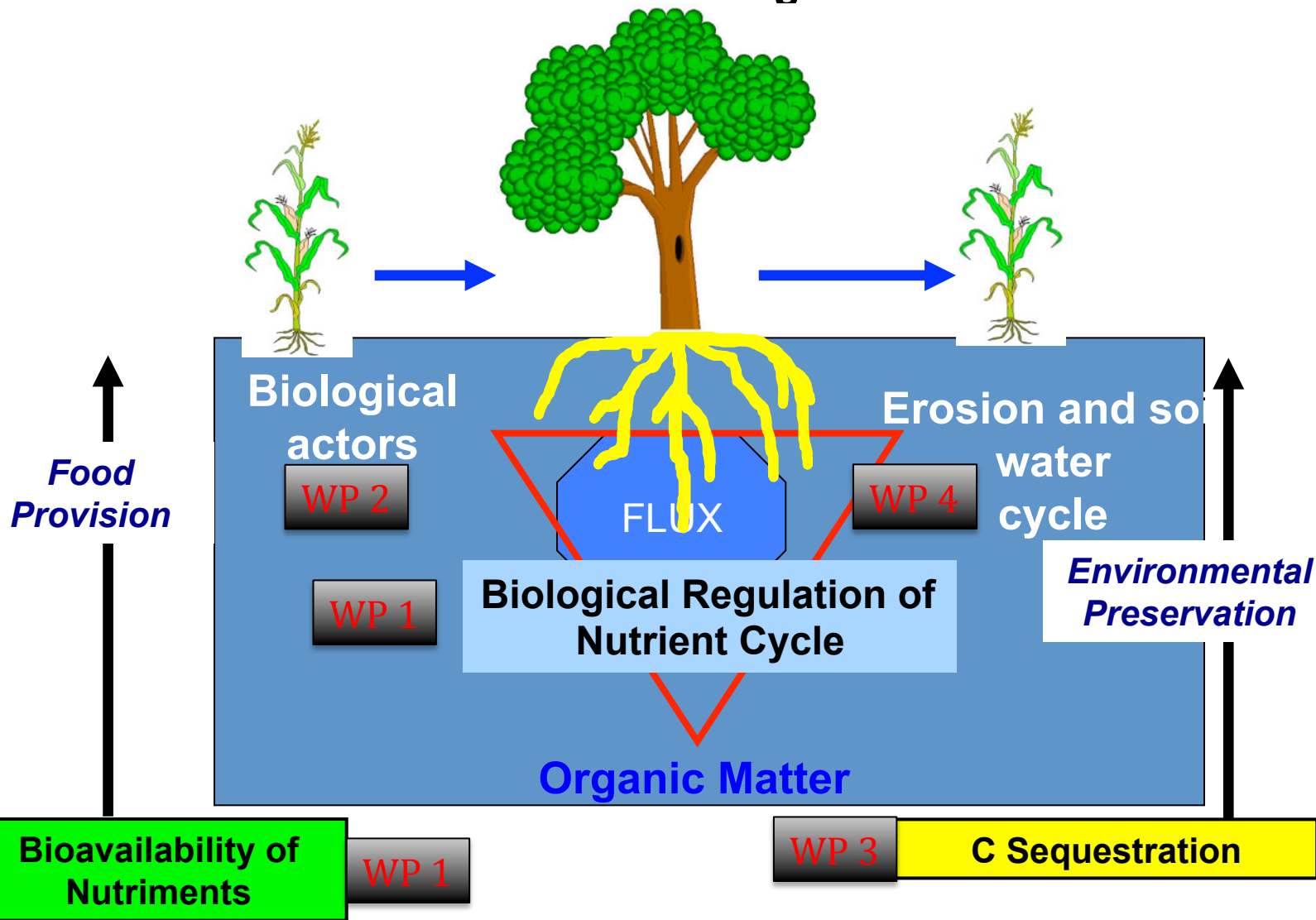
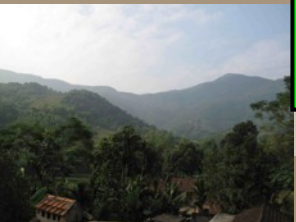
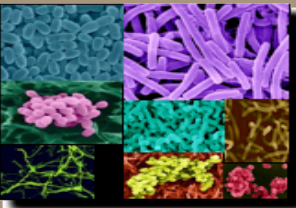
Soil ecosystem services are the conditions and processes through which soils, and the organisms that make them up, sustain and fulfil human life. They maintain soil function and provide ecosystem benefits such as:

- renewal of *soil fertility*
- purification of *water*
- mitigation of flooding
- *translocation of nutrients*
- *maintenance of biodiversity*
- partial stabilization of climate (*C sequestration*)

(altered from Daily, 1997).



Land use changes



LAND USE CHANGES AND SOIL ECOSYSTEM SERVICES

What type of LU?

Which plant models?



Needs to be discussed during the WP sessions.

From annual to perennial



Acacia gum
Vietnam



Teak
(Laos)



Rubber
(Thailand)

Advantage

- 1- This change is observed in **the three countries**
- 2- **Few studies** on the environmental impact of tree plantations



PARALLEL SESSION 2
 DETERMINE THE MAIN PRIORITIES
 OVER THE NEXT 3 YEARS



Individual training

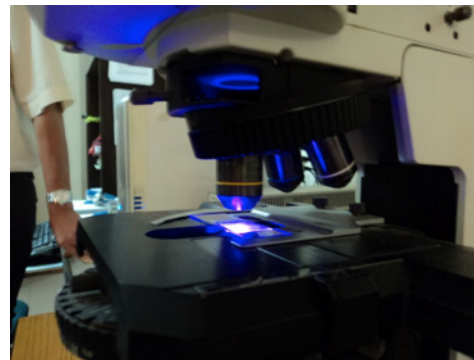
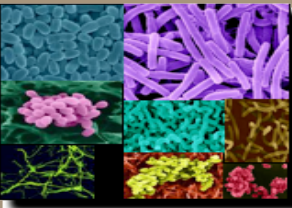
Master's, PhD, other?



Collective training

Questions: Main topic? Where? Co-funding?

Training



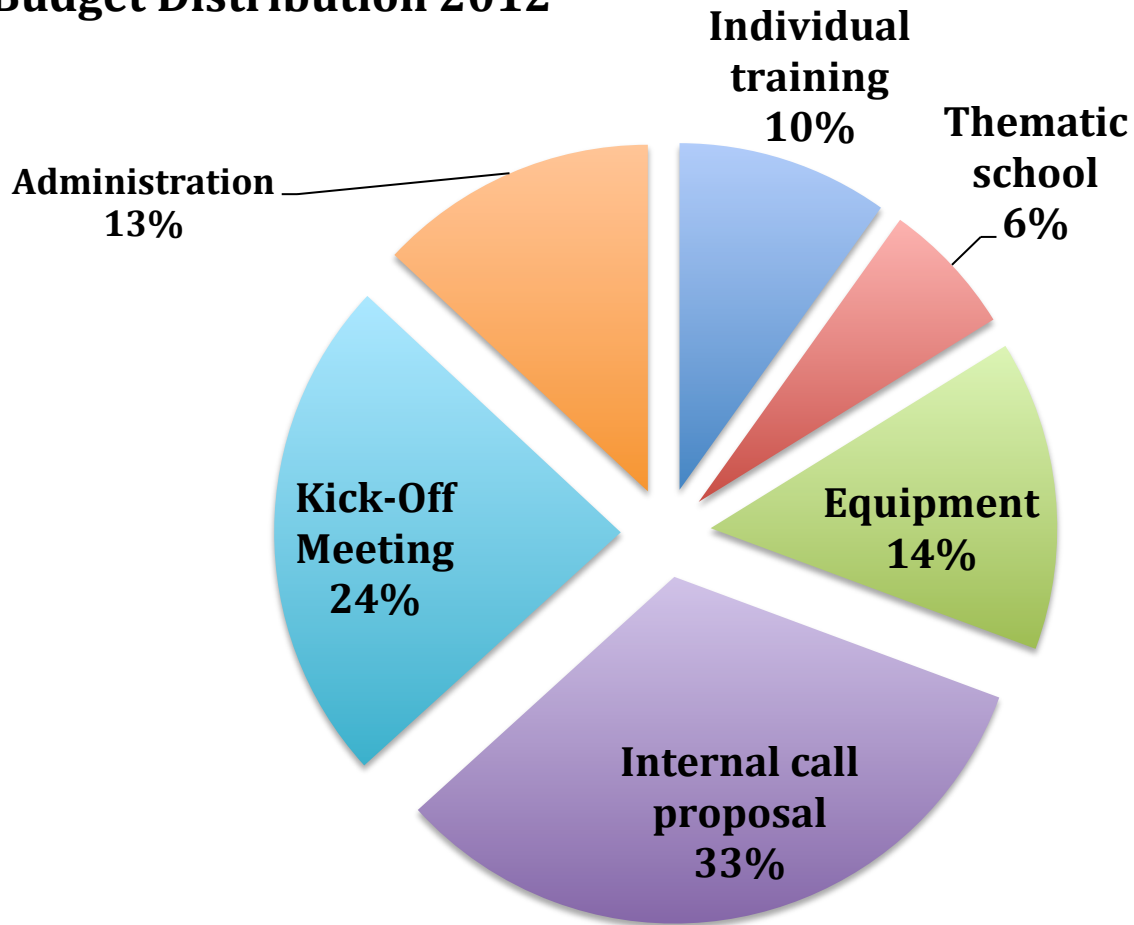
Equipment

Strengthen capacities

LUSES Kick-Off Meeting, 18-20 October 2012, Bangkok, LLD



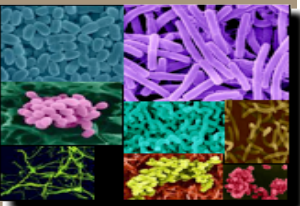
Budget Distribution 2012

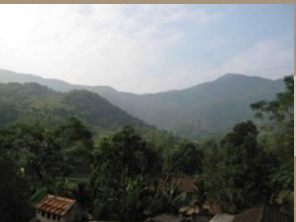
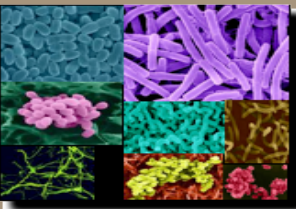


Total Budget 2012: \$50,000
Internal call: \$31,000 (60%)

Provisional Budget ~\$65,000

LUSES Kick-Off Meeting, 18–20 October 2012, Bangkok, LLD



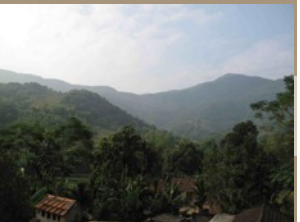
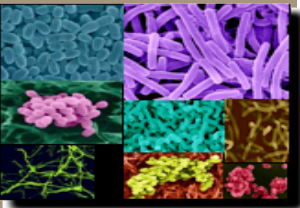


Leader	Country	Type of support	Partners	Amount (\$)
Jean-Louis Janeau	ALL (Vietnam)	Equipment	SFRI KU, NAFRI	5443
Lesueur-Chaveevan-KKU	Thailand	Symposium	LDD & KKU	4147
Alain Pierret	ALL (Laos)	Collective Training	All	3110
Toan Tran Duc	Vietnam	Individual Training	SFRI	3305
Monrawee Perawatchara	Thailand	Exploratory Research Project	LDD, KU, KKU	3888
KU Student (Kaka)	Thailand	Individual Application	Kasetsart University	1931
Nopmanee SUVANNANG	Thailand	Equipment and Mission	LDD and KU	3888
Poonpipope Kasemsap	Thailand	Equipment and Training	KU	2592
Anne Laure Pablo	Thailand	Equipment	LDD	2073

Total (\$) **30,376**

12 projects received, 9 selected by the Scientific Committee

EXAMPLE OF A FUNDED PROJECT



Collective training
 (“Introduction to R”, Vientiane, Laos)



Equipment
Rain Simulator (Vietnam)

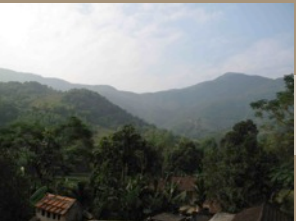
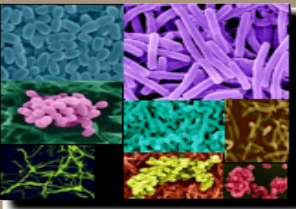


Participation in symposia
(Thailand)



Collective Training (NIRS LDD and LAI KU)
 (Thailand)





Institutes



LUSES



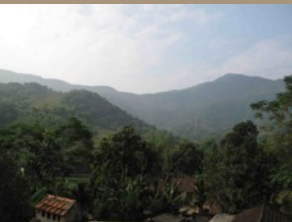
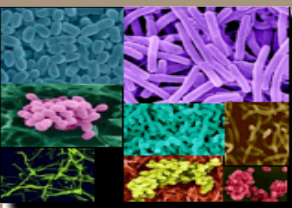
IRD (UMR Bioemco and Eco&sols)

PPR SELTAR

40% of Co-funding in 2012

Project was funded in june !

ORGANIZATION: SCIENTIFIC COMMITTEE



	Soil fertility and dynamics of mineral nutrients	Soil and water functional biodiversity	Carbon storage in plant biomass and soil	Regulation of water flow and erosion
France Leader	Henri Robain IRD Thailand	Didier Lesueur CIRAD Thailand	Alain Pierret IRD Laos	Olivier Ribolzi IRD Laos
Co-Leader	Claude Hammecker IRD France	Emma Rochelle-Newall IRD Vietnam	Fred Gay CIRAD Thailand	Didier Orange IRD Vietnam
ASE Leader	ToanTran Duc SFRI Vietnam	Yupa Hanboonsong KKU Thailand	Poonpipope Kasemsap KU Thailand	Oloth Sengtahevanghoung NAFRI Laos
Co-Leader	Wanpen Wiriyakitnate LDD Thailand	AnhNgo Quoc ICH Vietnam	Sathaporn Jaiarree LDD Thailand	Duc Trinh Anh ICH Vietnam

Role: proposes scientific direction, budget distribution, training and capacity-building priorities

Needs to be specified during Parallel Session 2

ORGANIZATION: STEERING COMMITTEE



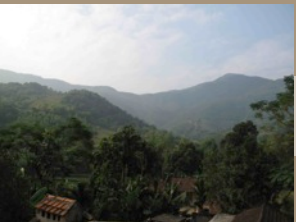
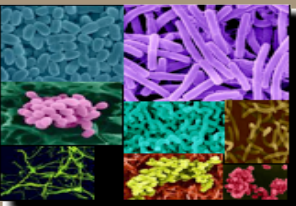
Composed of one member from each institution (core members) and external members jointly selected by the core members.



- 1- **Vote on the budget; validate scientific orientation,** activities, and projects proposed by the Scientific Committee.
- 2- Check the project's scientific coherence.

SC Meeting: 20th of October

LUSES Kick-Off Meeting, 18–20 October 2012, Bangkok, LLD



LUSES KEY WORDS

- Environmental impact of agriculture
- Strengthen capacity building
- Partnership: reinforce our relationship
- Regional: the foundation of LUSES

