

**Joint French-South-East Asia Research and Training initiative**

**DYNAMIC OF LAND USE CHANGES AND SOIL ECOSYSTEM SERVICES  
(LUSES)**



**Internal Call for small proposal**

**Year 2013**

<b>Project coordinator</b>	Alain Pierret
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<b>Title</b>
Hands-on introduction to the R environment

<b>LMI partners (French)</b>	
	IRD-Laos/Thailand/Vietnam

<b>LMI partners (Asian)</b>	
	All invited

<b>Others Partners</b>	
Western Countries	
Asian Countries	

Type of support	Amount (€)
<b><u>Deadline (14 th of February)</u></b>	
Student support	
Student research expenses	
Student mission	
Support to project building	
Collective training expenses	5730
Mission (exploratory, support)	
Field support	
Exploratory project	
Beside project support (link to a bigger one)	2500
Equipment	
Others	

**Asian Countries involved (put an x)**

Thailand	Vietnam	Laos	Others
x	x	x	

**Working package involved (put an x)**

WP1 Soil fertility and the dynamics of mineral nutrients	WP 2 Soil and water functional biodiversity	WP 3 Carbon storage in plant biomass and soil	WP4 Regulation of water flow and erosion
x	x	x	x

### **General context of the proposal**

**R-Project** is an extraordinary resource for statistics and data analysis, maintained and supported by a wide range of researchers worldwide. R is a language with its own grammar, vocabulary, phrases, and literature. Like any language, it can be extremely powerful for you once you have mastered a few fundamentals. Attend the course and join the R community!

### **Objective of the proposal**

This introduction to R, an "environment for statistical computing and graphics" is not an introduction to statistics with R. Rather, the objective of the course is to make the audience familiar with the R environment and the possibilities it offers, well beyond statistics. During the course, we will introduce the basic types of data that can be manipulated with R, the syntax of R and its usage with the command line. For those who are scared by the command line, we will also briefly look at GUI alternatives offered by R-Commander or R-Studio.

### **Link with the LMI project (regional aspect, partnership, working package)**

**Hands-on introduction to the R environment** will contribute to the knowledge sharing and capacity building objectives of the LMI-LUSES.

### **Project description (one page maximum)**

**Hands-on introduction to the R environment** will be run over 3 days devoted to training an audience of beginners to using R and its possibilities. The first day will be used to introduce the basic concepts of the R Project; how to install it and use its basic functionalities such as the R package system; reading data into R Project; types and variables in R Project. The second day will be used to explore some of the programming options in R Project, among these, logical tests and loops. We will also introduce graphs in R Project and manipulation of spatial data. Part of the second day and day 3 will be spent actually using the software. Each participant is encouraged to bring its own data or scientific problem so that we take a look at how R can be use to help you, on an individual basis.

### **Budget description including identify amount budget from co -funding if it is available**

- A).Regional return airfares for 8 participants travelling regionally: 4000 €
- B) Accommodation for 8 participants travelling regionally for 3 nights : 580 €
- C) Cost of catering for lunch and coffee breaks for 20 participants x 3 days – 650 €
- D) Dinners for 8 participants travelling regionally for 3 nights : 250 €
- E) Meeting room rental fee: 150 €
- F) Local transport from airport to hotel for 8 participants : 100 €

Grand-Total: 5730 €

funds requested to PPR-SELTAR (2500 €)

funds requested to LMI-LUSES : 3230 €