



NATIONAL UNIVERSITY OF LAOS

Progress CALIBRE at NUOL

Manchester
September 8, 2008



NUOL Activities

1. **Kick-off meeting & workshop on financing sustainability to CALIBRE, Phnom Penh, Cambodia**
 1. Nhotkeo Phawadee
 2. Seng Athit Choulamany
 3. Vilayath Vongdara
 4. Khemngeun Pongmala
 5. Prof. Lammai Phiphakhavong
 6. Dr. Bounthanh Bounvilay
2. **Installation of video-conference facilities, NUOL**
3. **Construction & maintenance of project Website**
4. **Review of Environmental Issues and Environmental Continuing Professional Development Priorities Issues, Lao PDR**



NUOL Activities

- 5. Equip Lao PDR Environmental Training Laboratory at NUOL**
- 6. Workshop, Field Sampling Methods, Vientiane, Lao PDR**
- 7. English Language Preparation, Manchester, UK**
 1. Nhotkeo Phawadee
 2. Sengathit Chounlamany
 3. Vilayath Vongdara
- 8. French Language Preparation, Grenoble, France**
 1. Nhotkeo Phawadee
- 9. Workshop, (i) Teaching Methods; (ii) Environmental Analysis & Data Analysis, Manchester, UK**
 1. Nhotkeo Phawadee
 2. Sengathit Chounlamany
 3. Vilayath Vongdara
 4. Prof. Lammai Phiphakhavong
 5. Dr. Bounthanh Bounvilay



NUOL Activities (Cont'd)

- 10. Environmental Research Training, Manchester, UK**
 1. Sengathit Choulamany
 2. Vilayath Vongdara
- 11. Environmental Research Training, Grenoble, France**
 1. Nhotkeo Phawadee
- 12. Workshop, Remediation Methods, Grenoble, France**
 1. Nhotkeo Phawadee
- 13. Network meetings throughout programme**
- 14. Preparation of curriculum materials**
- 15. Final meeting including summary of actions and proposal for post-action sustainability, Vientiane, Lao PDR**
- 16. Programme management reporting**



Citiblues and E2M

1.4 Summary

This project aims at strengthening capacity of five partner higher-education institutions in delivering existing curricula requiring the full integration of engineering and ecological principles. It directly addresses, **1)** specific gaps identified among the Partners undergraduate and graduate programmes through development of teaching compendia and multi-media support material; **2)** the teacher's own capacity to dynamically link theoretical and practical notions through hands-on participation in a multidisciplinary applied research project involving practitioners; and **3)** the need to pro-actively support a problem-solving-based teaching through promoting linkages between faculty research and practitioners emerging needs. The University of Kristianstad (SE), the University of Sheffield (UK), the Royal University of Phnom Penh (KH), the National University of Laos (LAO) and King Mongkut's University of Technology (TH) will be joined in this 30 month project by the Mekong River Commission Secretariat and the Asian Institute of Technology (external partners) in technical workshops and field-activities also attended by stakeholders.

1.5 Objectives

- N.B.** Structure developed in accordance to the *Manual Project Cycle Management* (March 2001), EuropeAID – Cooperative Office, European Commission. Presentation [style](#) reflects the integration of the present project in an overall Programme Approach (*i.e.*, ongoing programmes helmed by different members of the proposed Partnership), to which the present project's *Specific Objective* directly contributes.



Citiblues and E2M (Cont'd)

Annex 1: Description of the Action

every phase – planning, design, operation and maintenance – to minimise negative impacts on receiving water bodies and to enhance the quality of life in urban environments. This objective directly supports the overall objectives of the EU Water Framework Directive (2000/60/EC) and those highlighted in the ASEAN Environment Year, both established to prevent further deterioration, and to protect and enhance the status of aquatic ecosystems, specifically addressing cross-border systems.

Immediate Objective 1: *Decision support tools and expert/scientific support networks are in place to assist practitioners manage urban stormwater in an adaptive approach, allowing them to constantly improve their strategies through a permanent cycle¹ of implementation, assessment and adjustment.* This objective addresses the sustainability of safely and meaningfully preserving the functioning of urban watersheds and the health and quality of life of the people who live within them.

Immediate Objective 2: *Improved technical capacity and awareness among present / future practitioners managing urban stormwater – and those responsible for their formation – through fully integrated use of engineering and ecological principles.* This objective addresses the need to promptly and efficiently adapt practices – and amend through teaching attitude leading to these practices – to a world characterised by deepening environmental issues and developing technologies. The present project directly addresses this objective, while the two platform projects on which it builds (an applied research programme on urban stormwater management in Vientiane lead by Kristianstad University, and a regional environmental risk-assessment programme lead by the Mekong River Commission) actively contribute to Objective 1.

Specific objective

Project Objective: *The capacity of five partner higher-education institutions in delivering existing curricula requiring the full integration of engineering and ecological principles is strengthened by 1) developing teaching compendia and multi-media support material directly addressing gaps identified among the Partners undergraduate and graduate programmes; 2) strengthening the teacher's own capacity to dynamically link theoretical and practical notions through hands-on participation in a multidisciplinary applied research project involving practitioners; and 3) by pro-actively support a problem-solving-based teaching through promoting linkages between faculty research and practitioners emerging needs.*