

HÖGSKOLAN KRISTIANSTAD

CITYBLUES — practical implementation of ecological & engineering principles in integrated stormwater management
Kick-Off Workshop (5th – 14th July 2004)

ASIA-LINK
EUROPEAID

CITYBLUES: motivation, strategy and outputs

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a project co-financed by the European Union's Asia Link Programme

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CITYBLUES: motivation, strategy and outputs

WHAT is CITYBLUES ?

... which use a **learning-by-doing** approach to strengthen links between problem-solving-based **teaching**, faculty **research** and **practitioner's** emerging needs...

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The CITYBLUES PARTNERSHIP

CITYBLUES — practical implementation of ecological & engineering principles in integrated stormwater management
experience and lessons learned

CITYBLUES IS FIRST AND FOREMOST A PARTNERSHIP

Partner Universities
receive financing from the European Union

- Ecological Engineering Programme
- Division of Civil and Mechanical Engineering
Research Group on Water and Environmental Management
- Department of Environmental Sciences
- Department of Civil Engineering
- Department of Biology
- Department of Engineering
- Department of Environmental Engineering

External Partners in expansion...
support their own participation and/or finance complementary activities also fulfilling their own objectives

- Vientiane Urban Development Administration
Authority Lao PDR City of Phnom Penh Cambodia
- Lao National Mekong Committee
Lao PDR
- Mekong River Commission Secretariat
regional organisation based in Lao PDR
- Institute of Tropical Biology
Vietnam

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LEARN TO WORK AS A TEAM
(5 Partners = big but would not do it differently)

Main challenges: multi-disciplinary integration... (thinking & approaches)

not only between Partners, but also among teams

"reality" of research activities in Cambodia and Lao Partner Universities

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HRD-Common Research Component

Use already established and ongoing multidisciplinary large scale research projects as **HRD-RESEARCH PLATFORM** (funded from Sweden & UK)

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HRD-Research Component

Learning new techniques
Hands-on approach laboratories
Exchanging "Best Stories"

Large scale experiment planning

"To Vegetate or Not to Vegetate"...

...that's the CITYBLUES's "starting point" of discussions

Focusing on ecological engineering approach

exchange ideas... learn from each others...

Water Quality

Flow Resistance = Flooding Risk

Flow Evacuation

Nutrient Uptake

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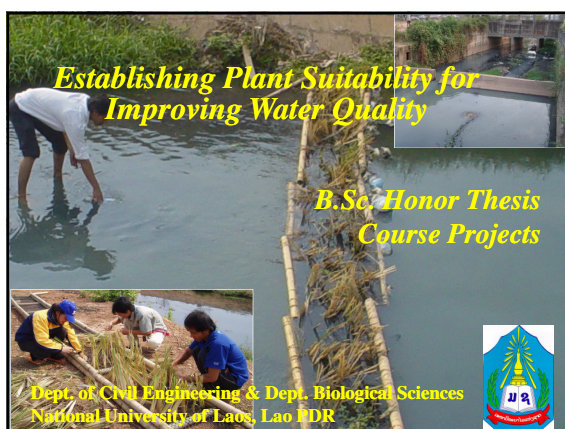
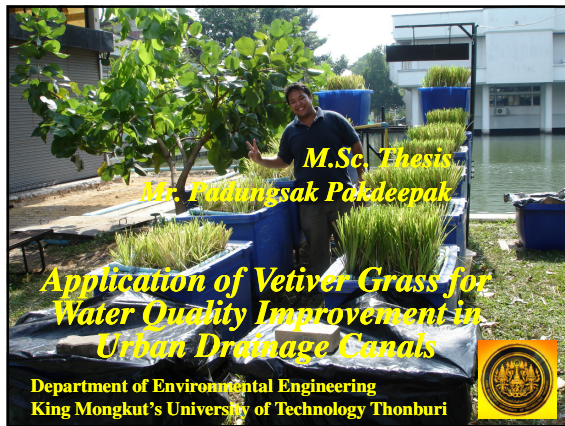
Effect of plants on water flow and water quality (i.e., balancing flood risk and water quality improvement), experiment October 2004

Effect WITH vegetation (8 hours)

Effect after vegetation removal (30 minutes)

Removal of all vegetation reduced transit time from 5 h to 30 min!

Good for flood protection... bad for biological processes!





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HRD-Common Research Component

Unexpected output => multiplier effect

Already been a great tool in teaching (laboratory, honor theses) and faculty research activities

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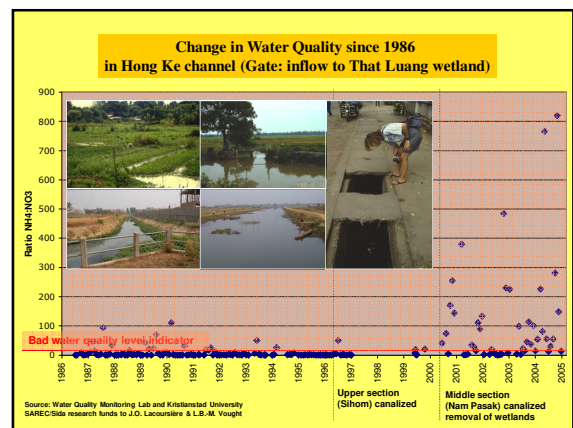
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The CITYBLUES PARTNERSHIP experience and lessons learned

CITYBLUES - Complementary Intra ASEAN Meetings CIAMS

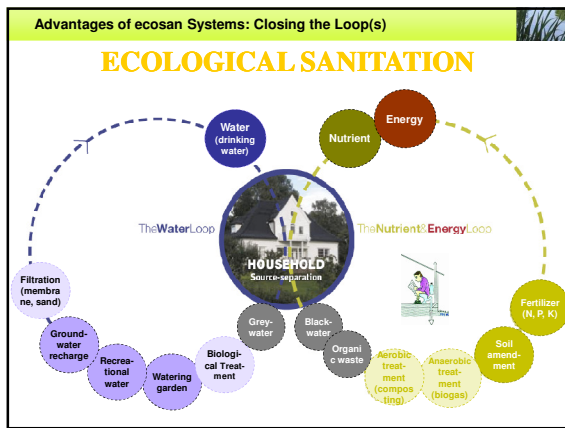
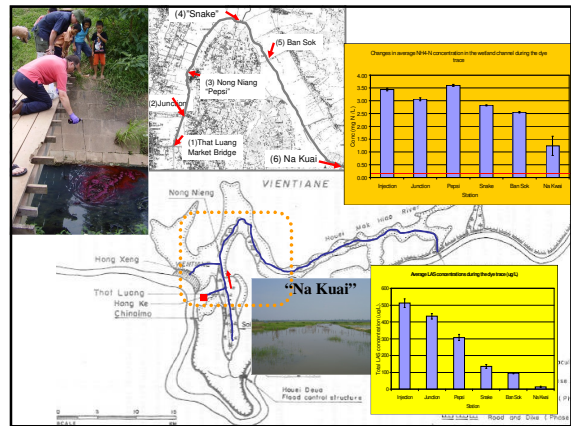
The dynamic force behind the success of the Partnership

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Status of the Pollution Intrusion in That Luang Wetland (Vientiane)

Field Investigation: March 2006



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experience and lessons learned

ASIA-LINK EUROPEAD SUBSIDISED

FINALLY...

WHY IS IT CALLED "CITYBLUES" ?

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experience and lessons learned

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"CITYBLUES"

Working with urbanised areas...

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"CITYBLUES"

Working with urbanised areas...

The shades of urban aquatic ecosystems...
The sadness of their disappearance

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