



FBLI: Field Building Leadership Initiative: Advancing Ecohealth in Southeast Asia (2012 – 2016)

**Using an Ecohealth Approach for Better Management of
Animal and Human Waste in Hanam Province, Vietnam**

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Contents

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Please! see the picture





Please! see the picture

Polluted Nhue River influence to Kim Bang, Ha Nam
Impact to environment (smell, beauty, contaminated)
Impact to human health
Impact to economic

Solution:

- Medicine
- Cleaning
- Waste-water treatment (industry, hospital, households, etc.)
- Management, Collaboration between different stakeholders
-

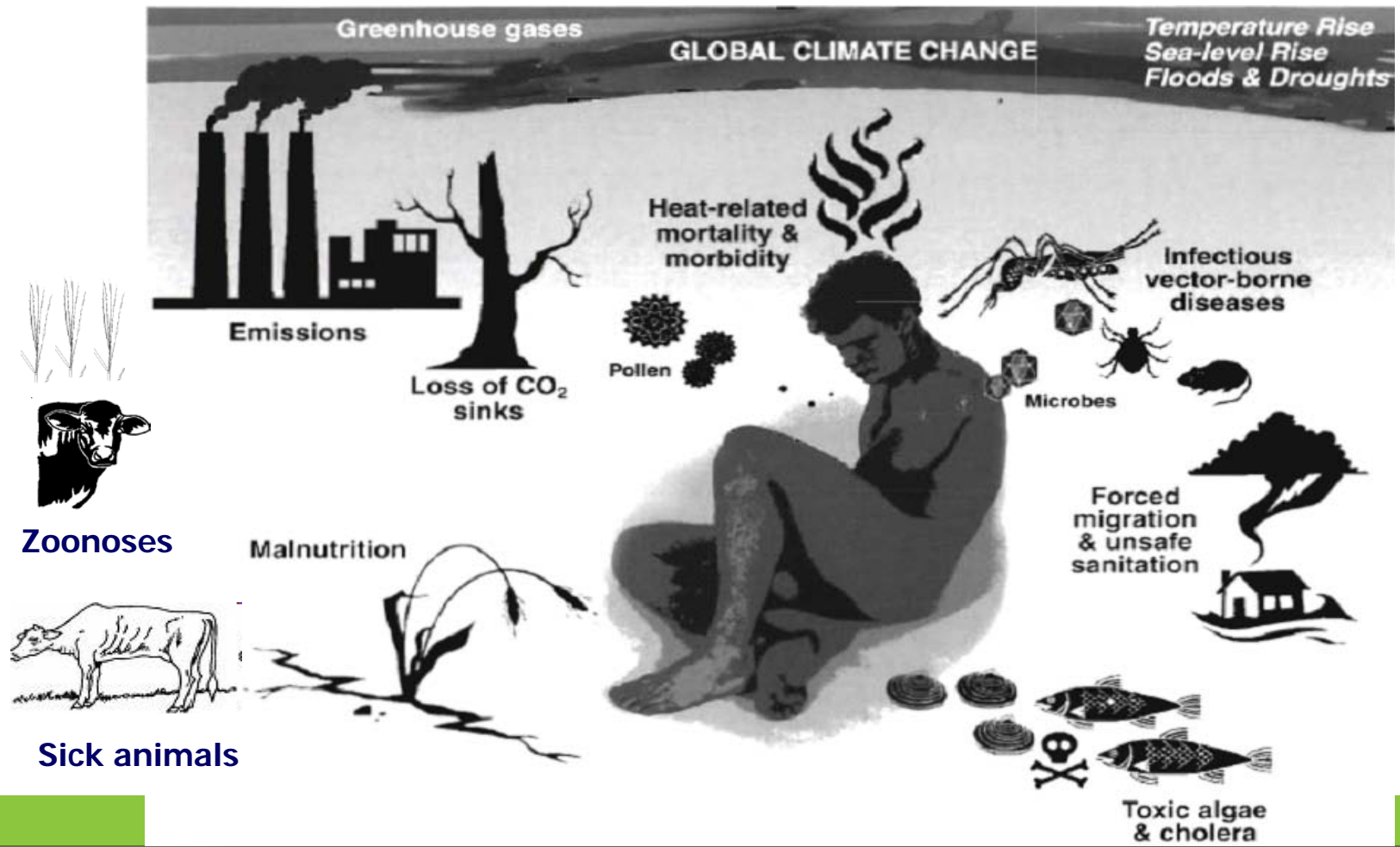
Complicated issues

To be solved by using an interdisciplinary approach

→ **Ecohealth**

What is EcoHealth?

Ecohealth is the transdisciplinary and systems study of dynamic relationships and interactions among animals, ecosystems and human health.





Current situation of agricultural intensification

- Agricultural intensification had closed relationship with ecosystem and human health.
- Any innovative changes are needed to develop the agricultural and livestock systems to increase production, at the same time preserving and enhancing natural resources.
- Livestock: advantages and disadvantages
- Livestock waste management, reuse
- Using ecohealth approach to manage animal and human wastes



TRƯỜNG ĐẠI HỌC
Y TẾ CÔNG CỘNG

Partners and Regional Core Group (RCG)



สถาบันวิจัยระบบสาธารณสุข (สวรส.)
Health Systems Research Institute (HSRI)





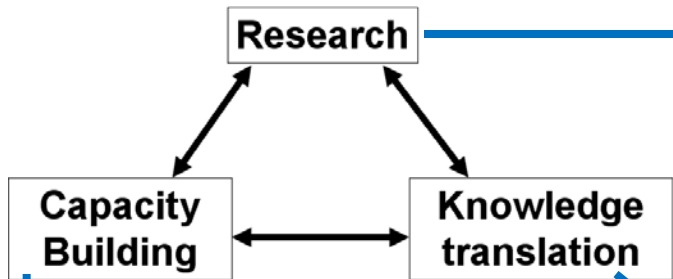
Study sites



- Pangalengen (ID)
- Chachoengsao (TH)
- Yuanmou (CN)
- Ha Nam (VN)

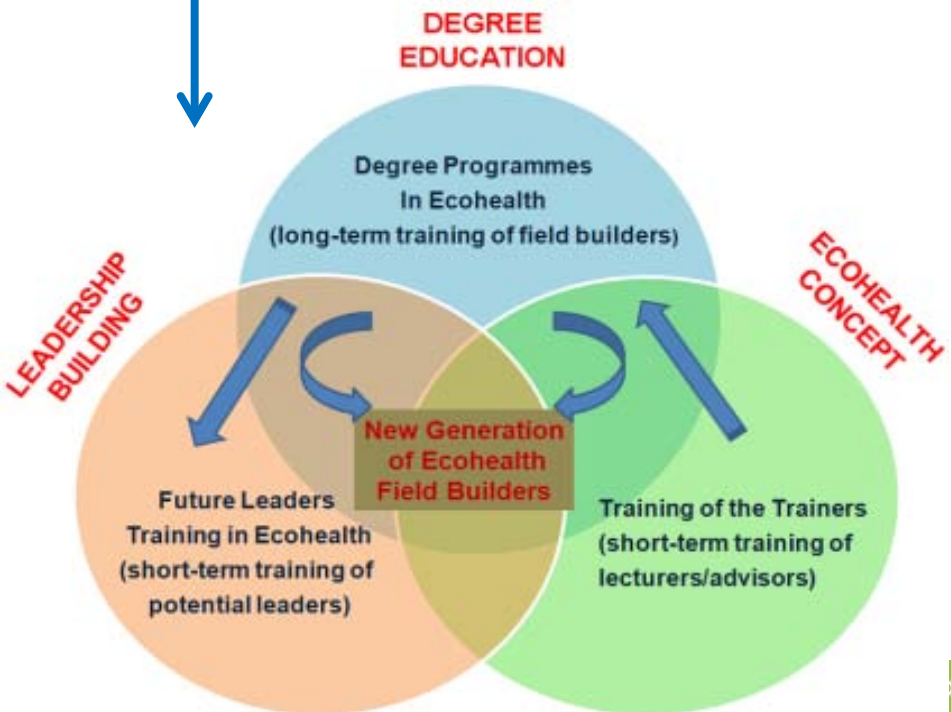


Main components



“Site based- concept”

- Yuanmou (CN)
- Hanam (VN)
- Chachoengsao (TH)
- Pangalengen , West Java





FBLI Objectives

1. Conduct **ecohealth research** to address human health problems related to agricultural intensification.
2. Strengthen the capacity within SEA for ecohealth research and practice by **ecohealth training** to build **leadership** and expertise in the ecohealth field.
3. **Engage key policy makers** – at local and national levels – to interact with the ecohealth research teams, sites and communities
4. Facilitate **networking-of-networks and knowledge sharing** to mainstream ecohealth approaches and foster the development of the ecohealth field in the region.



What do we need?

Generate knowledge: relationship between agricultural activities, ecosystem and health.

Develop new solutions for health, environment.

Involvement of policy makers at the beginning and whole research process

Interdisciplinary team, multi-institutional



What we did so far:

(NCCR North-South program)

1. Community engagement

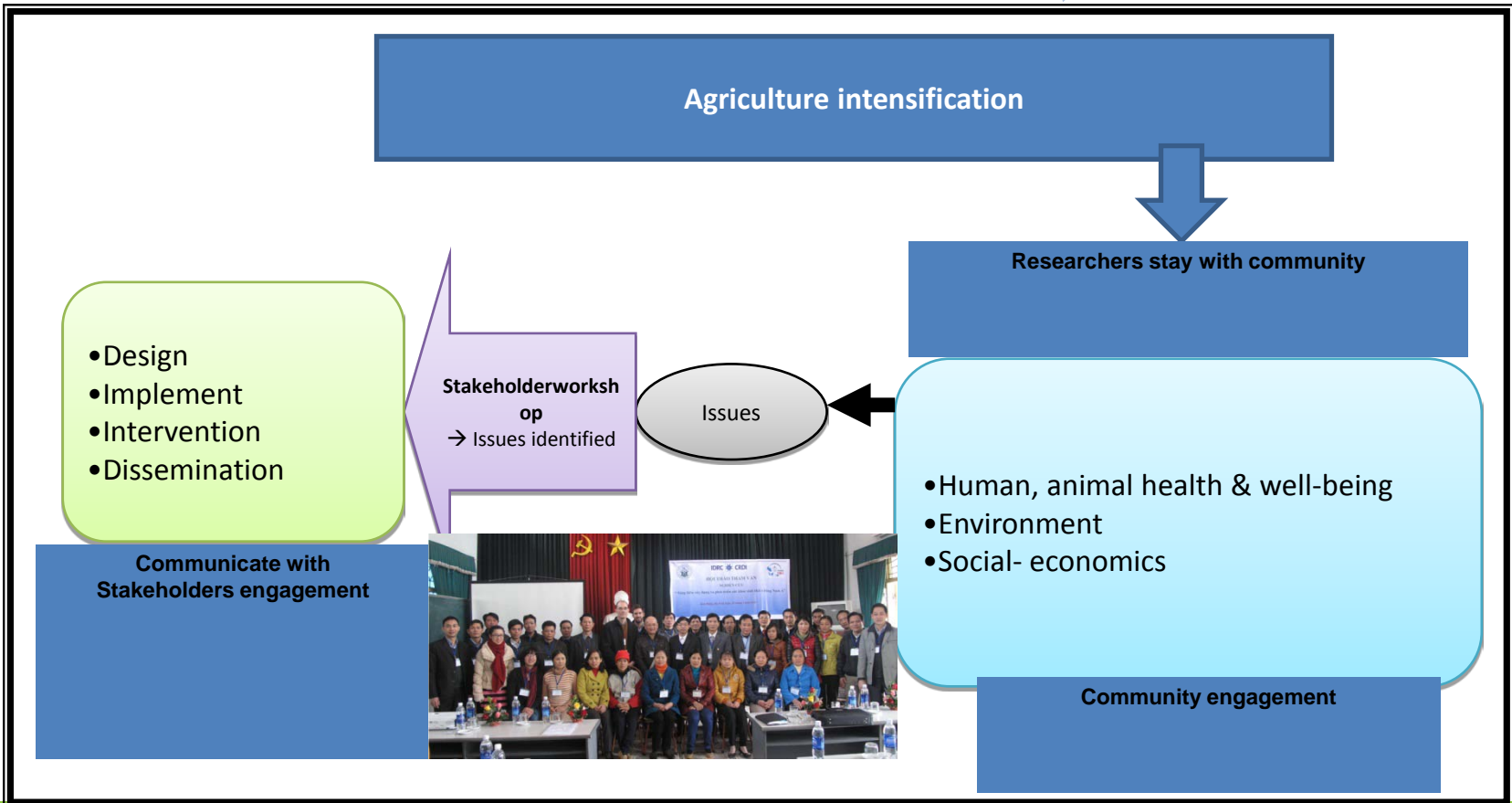
(Local authorities)

2. Research (PhD, MSc)

But more focus on “Diseases”: Health Status, Diseases..

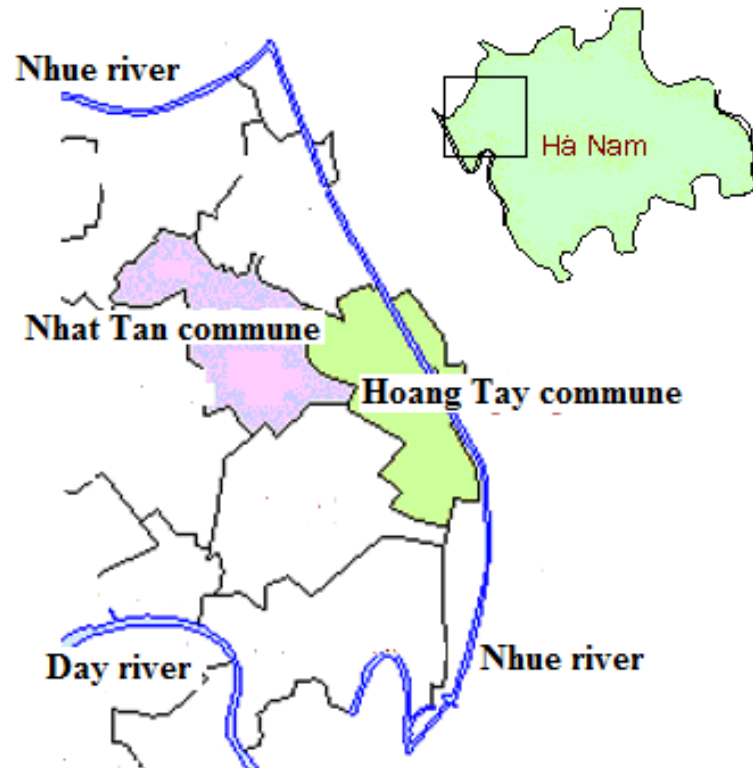
Focal Issue Sanitation & Health

Kim Bang district, Hanam, Vietnam



Study sites in Vietnam

- Kim Bảng and Duy Tiên, Hà Nam
 - Hoàng Tây, Lê Hồ, Chuyên Ngoại





Partners

- **HSPH**
- **NIAS**
- **Institute of Anthropology**
- **Etc.**

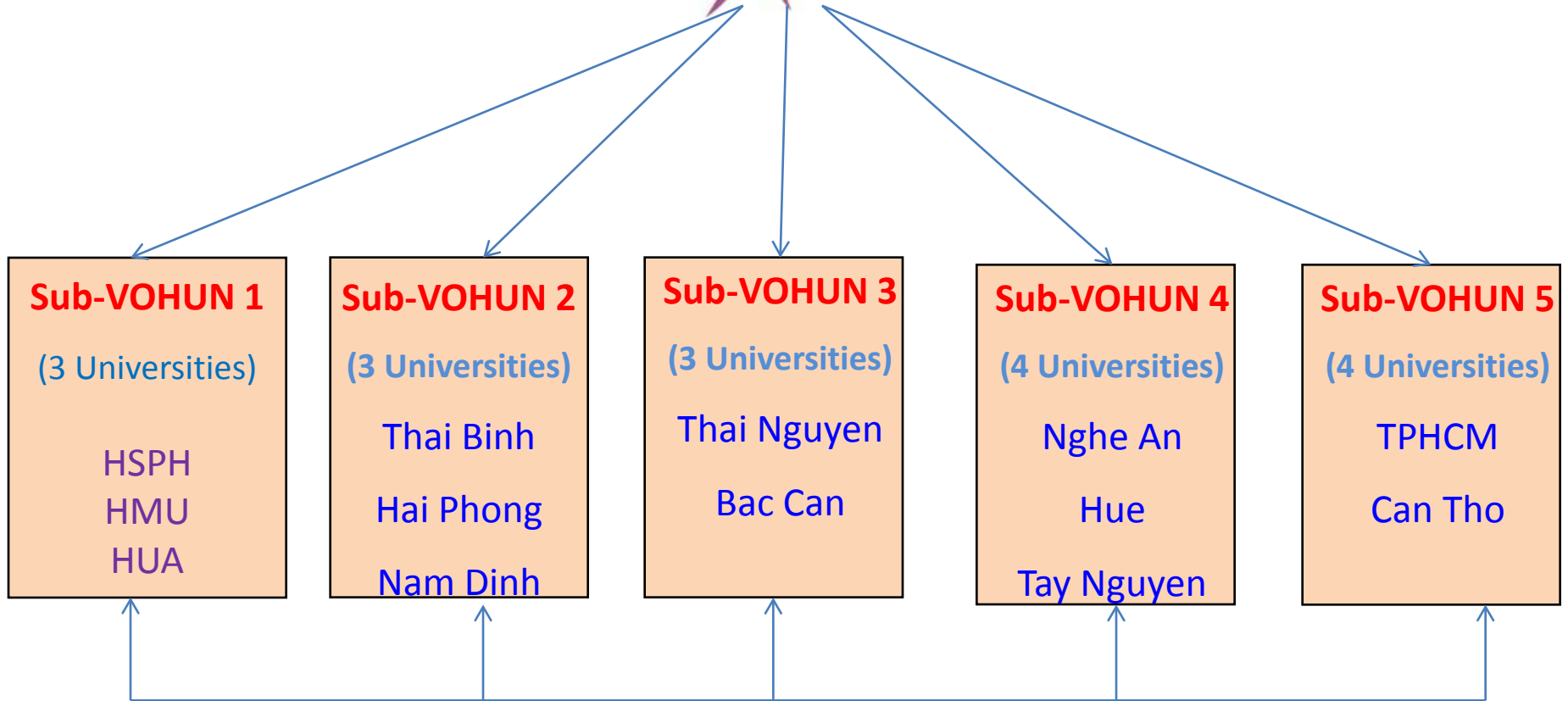
- **Ha Nam**
People's Committee,
Department of Health,
Agriculture





Expected outputs

- New systems knowledge generated on the link among agricultural practices, ecosystems and human health in the strategic study sites.
- Innovative solutions developed to address problems identified by local stakeholders in the study sites.
- Ecohealth approach recognized, accepted and appreciated by local stakeholders.
- Promoting linkages between the research community and policy community by establishing and developing relationships between researchers with policy makers.
- Training students





The main objective of VOHUN is to develop the One Health approach through training activities and research in the universities and to build a generation of new lecturers and researchers having a full range of knowledge and skills in practicing "One Health"



OH core competency modules

1. Collaboration and Partnership
2. Communication and Informatics
3. Culture, Beliefs, Values and Ethics
4. Leadership
5. Management & planning
6. Policy, Advocacy and Regulation
7. Systems Thinking



OH technical modules

1. One Health Concepts and Knowledge
2. Fundamentals of Infectious Disease
3. Infectious Disease Management
4. Epidemiology and Risk Analysis
5. Public Health
6. Ecosystem Health
7. Behavior Development
8. One Health Economics



RESPOND SEAOHUN One Health Course Modules

Home

One Health Course Modules Introduction

Welcome to the SEAOHUN One Health Course Modules!

This website offers the most up-to-date versions of all the course module materials. **As a first step, download and read the introduction below.**

READ ME FIRST – Introduction to the SEAOHUN One Health Course Modules

Once you have finished, go to the topic(s) you want to explore using the menu on the right. For each topic you will be able to download a:

- Facilitator Guide
- Student Guide
- PowerPoint Presentation(s)
- Resource Folder




ONE HEALTH COURSE TOPICS

- Home
- READ ME FIRST – Introduction
- Behavior Change
- Collaboration and Partnership
- Communications and Informatics
- Culture, Beliefs, Values and Ethics
- Ecosystem Health
- Epidemiology and Risk Analysis
- Fundamentals of Infectious Disease
- Infectious Disease Management
- Leadership
- Management
- One Health Concepts and Knowledge
- One Health Economics
- Policy, Advocacy and Regulation
- Public Health
- Systems Thinking



THANK YOU FOR YOUR ATTENTION!

CENPHER
TRƯỜNG ĐẠI HỌC Y TẾ CÔNG CỘNG VÀ HỆ SẠCH THẢI
HANOI SCHOOL OF PUBLIC HEALTH

**CENTER FOR PUBLIC HEALTH
AND ECOSYSTEM RESEARCH**
at Hanoi School of Public Health

The Center for Public Health and Ecosystem Research (CENPHER) was founded in June 2012 as a research center of Hanoi School of Public Health (HSPH) to conduct and strengthen interdisciplinary research at HSPH.

The center focuses on three main pillars - Research, Training and Services - to develop links between health and the environment at the national and regional level.

MISSION

To study the impact of environmental, ecological, cultural, socio-economic, and demographic factors on health and well-being using the integrative approaches of Ecohealth/One Health. Our special focus is on South East Asia with links to analogous issues in Africa.

GOALS

- From 2013-2020, we will become a:
- Well-established, nationally and regionally recognized center on environmental health and Ecohealth/One Health.
 - National reference center for health risk assessment
 - Resource Center for integrative research and training in environmental health
 - Consultancy resource for policy makers and donors

ACTIVITIES

1. RESEARCH We focus on the link between health and agriculture, infectious and zoonotic diseases, chemical pollution, food safety and nutrition. Research is conducted at different levels of organization (molecular, individual, and population) and from lab to the field. Our ultimate goal is to promote understanding of health issues related to ecosystems and to use research outputs to inform policy to change and improve health of the most vulnerable populations.

• Health Impact Assessment (HIA)

There is a clear need for Health Impact Assessment in SEA where many large infrastructure projects (dam construction, mining industry) are going on and the capacity in HIA is lacking. Therefore, through research and training with partners we will build capacity and expertise on HIA for the region.

• Ecohealth and One Health

We aim to understand how human health is determined by inter-linkages of human, animal and environmental health in a socio-ecological context using an integrated approach such as Ecohealth or One Health. The context we consider covers environmental pollution, agricultural intensification, urbanization, and environmental sanitation. The primary health issues we focus on are tropical neglected diseases, zoonoses as well as chronic diseases.

• Food Safety and Risk Assessment

Our main food safety issues relate to microbial contamination and toxins, pesticide use, antibiotic resistance, growth promoters. The risk-based approach to food safety management is still not well known and rarely applied in the developing world. Therefore, we generate evidence of how risk assessment can be used for specific cases of food safety management which is important to assist policy makers in using this approach for food safety management.

2. TRAINING

We supervise BSc, MSc and PhD students at HSPH and at other universities in and outside Vietnam. We teach regular courses at HSPH and other universities in the region. We offer short courses on Ecohealth, One Health, Risk Assessment, Integrative Training, and Environmental Sanitation and Health.

3. SERVICES

Our consultancy consists of research, training, and evaluation related to the core competencies of CENPHER research. For examples we developed and delivered a "One Health" course for Kinshasa University Congo DRC commissioned by Tufts University/RESPOND/USAID and we did a scoping study on wastewater research in Vietnam commissioned by IWM.

PARTNERS



KEY DONORS

