



European
OneHealth / EcoHealth
Workshop

Brussels, 6-7 October 2016



Strengthening synergies among disciplines and sectors & Challenging One Health stakeholders

Aurelie Binot CIRAD/KU FVM



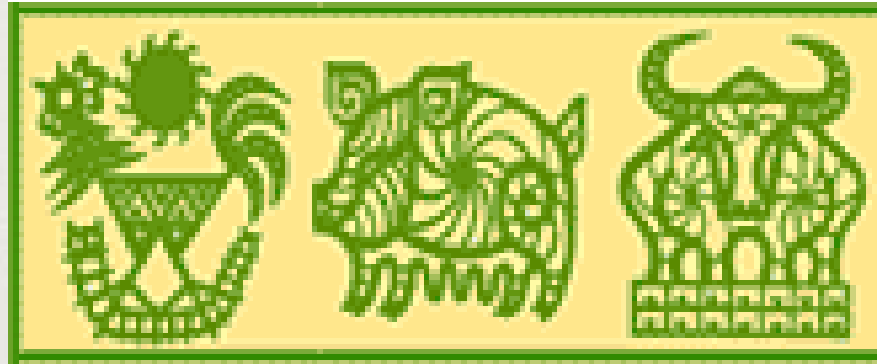
BIODIVERSITY AND HEALTH

Belgian Community of Practice



Biodiversity.be

GREASE



Regional Platform in Partnership in Southeast Asia

<http://www.grease-network.org>

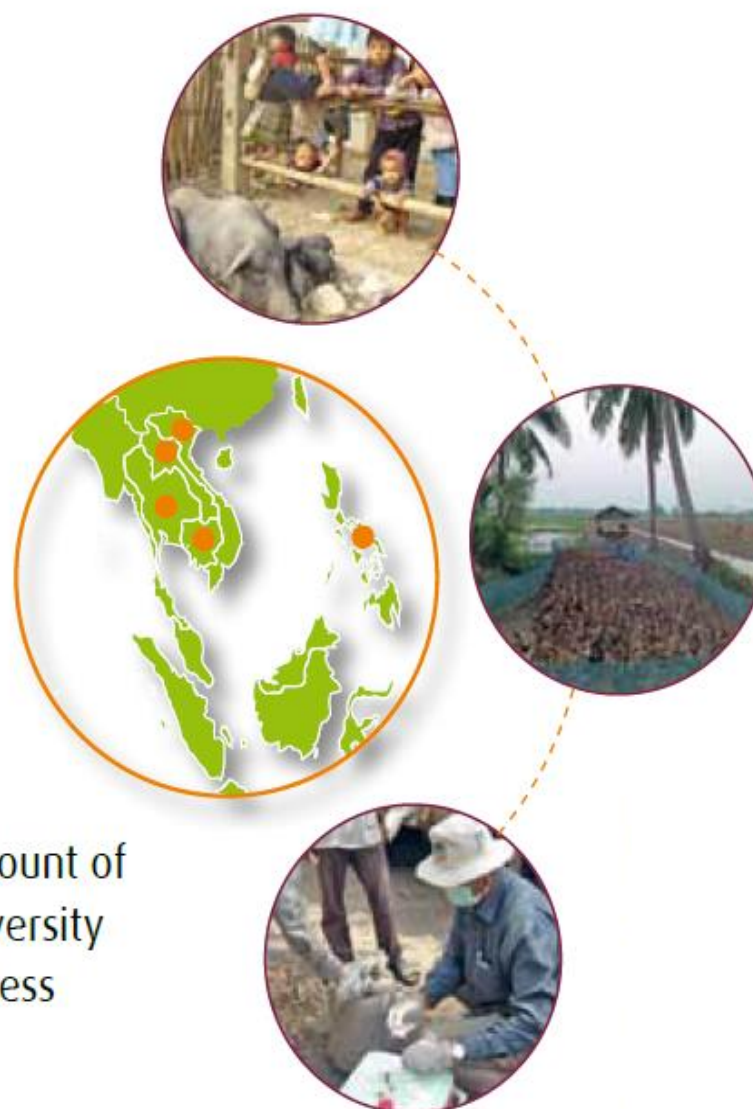


Emerging diseases in Southeast Asia

How can we manage the emerging health risks at the interface between animals, man and their environments?

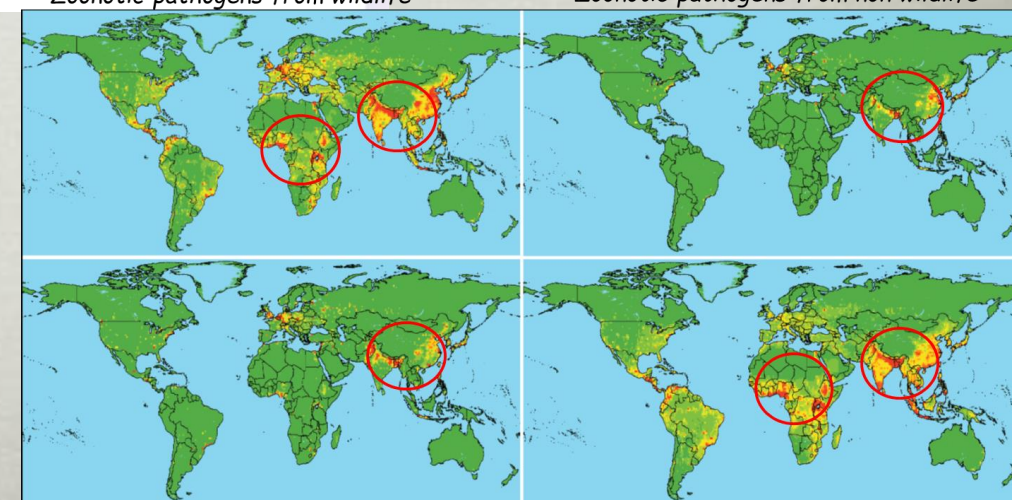
Southeast Asia is a hotspot in terms of disease emergence, due to a number of converging factors: climate change, deforestation, urban growth and changing production conditions and market chains.

The GREASE network promotes a “One Health” approach, taking account of the interdependence of social and epidemiological dynamics, biodiversity and health, and veterinary and human public health in order to address such complex health risks.



Zoonotic pathogens from wildlife

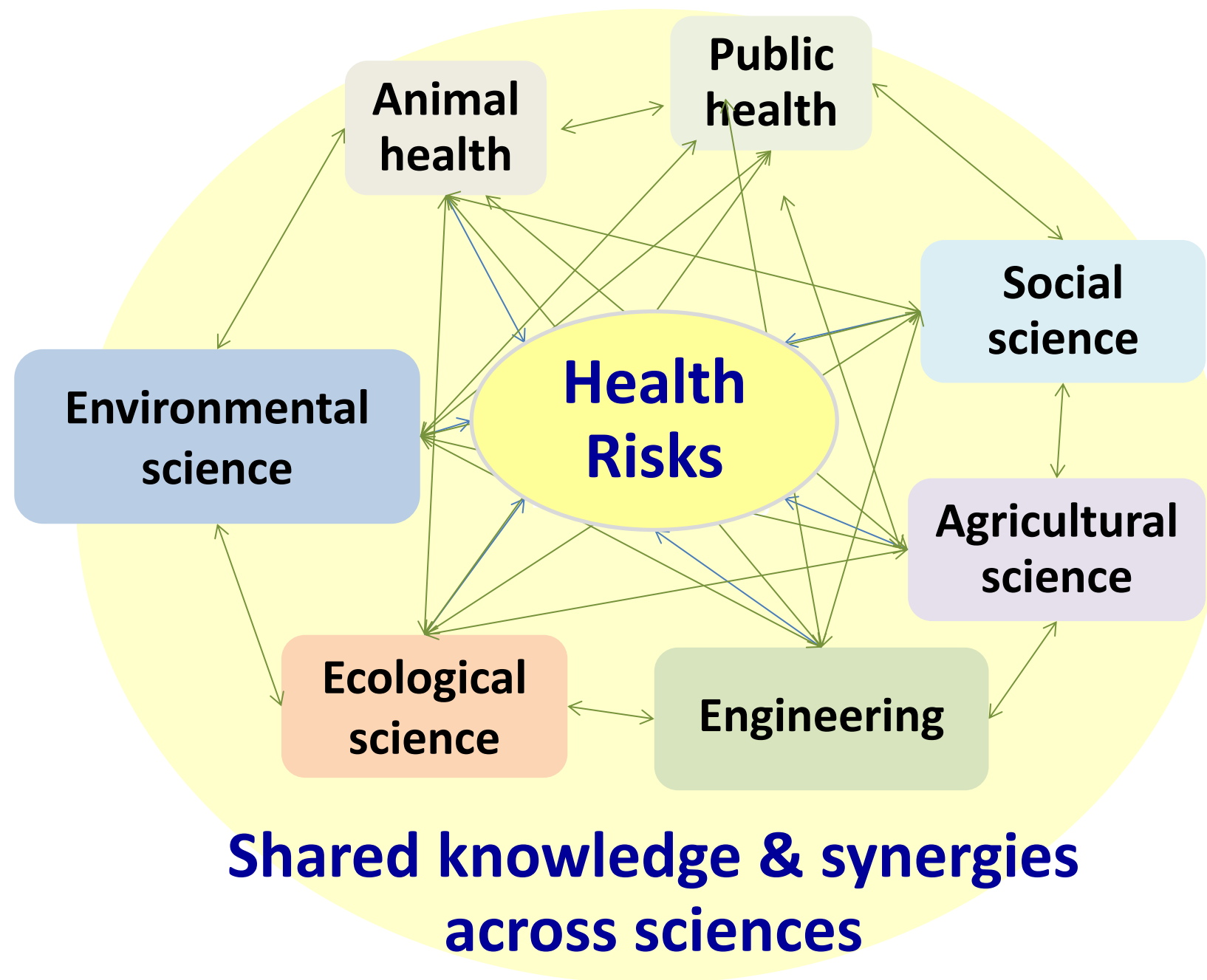
Zoonotic pathogens from non wildlife



Drug resistant pathogens

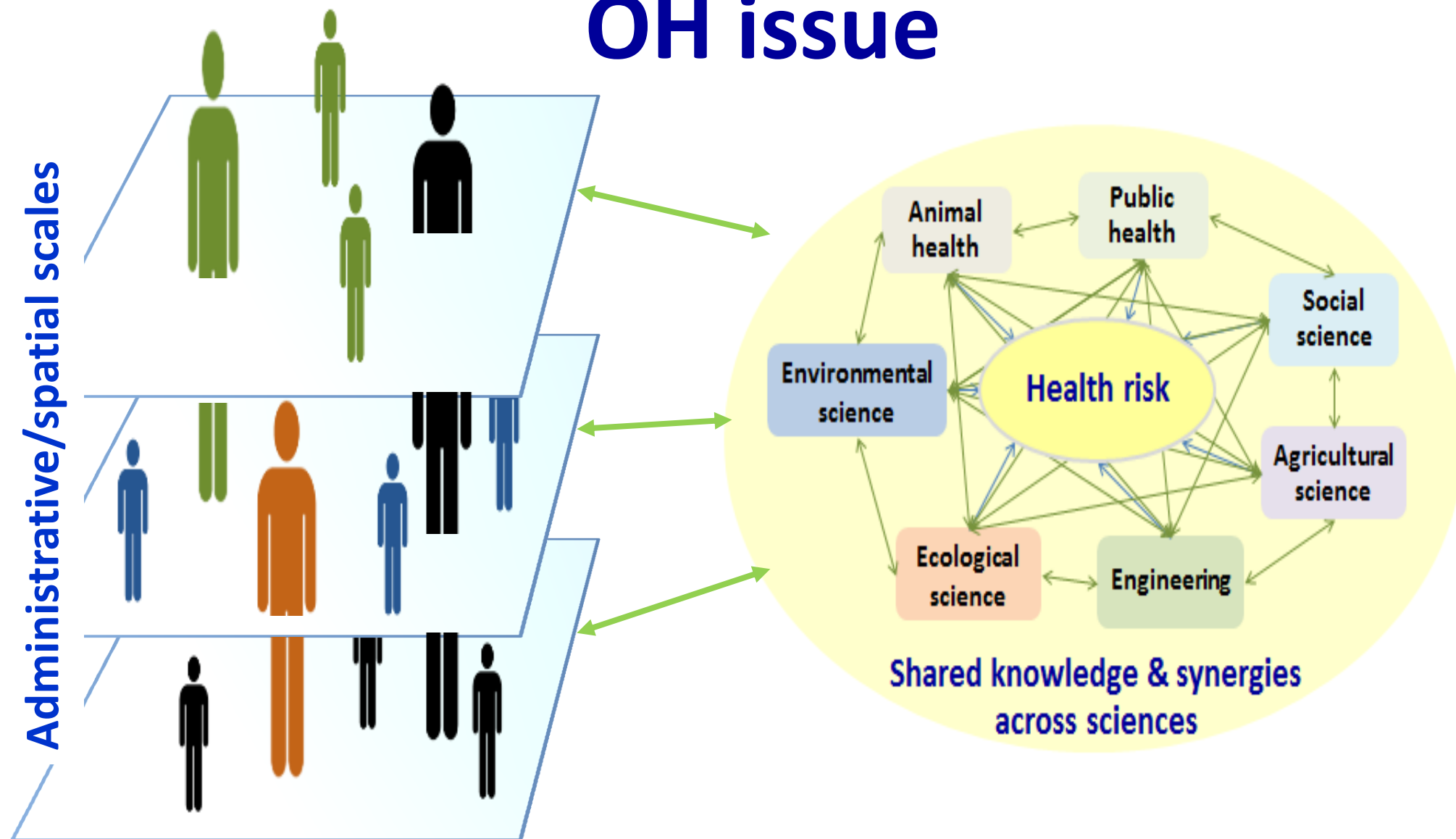
Vector borne pathogens

- Emergent & Endemic diseases ; (EIDs/TADs, NTDs)
- Biodiversity loss
- Zoonotic diseases

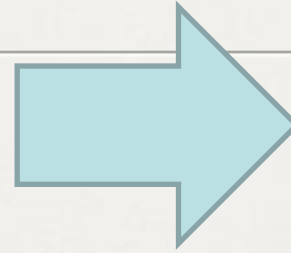


- No clear issue's owner.
- The issue/situation cannot be limited to the collaboration between public health and veterinary medicine.

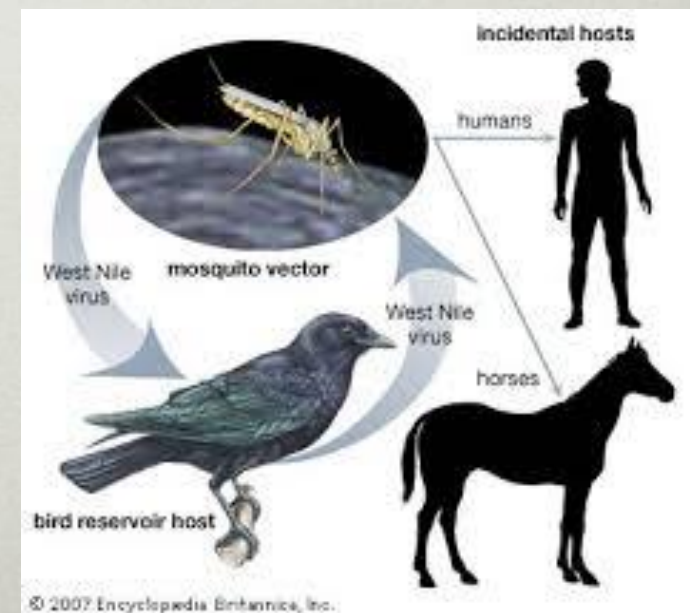
To Come Across multi-level-arena, cross-sectoral OH issue



Articulation between Health/Environment/Agriculture policies (OH policies?)
& collective action for improvements.



**Good
understanding of
the complex
pathogens'**



- Need **cross-sectoral** and **interdisciplinary** collaborations
- Need good **coordination** among laboratories at regional level



Objective

GREASE is a regional network to support Research Activities for a better Management of Emerging Epidemic Risks in Southeast Asia. It responds to the challenge of **emerging transboundary animal infections and zoonotic diseases** by producing a theoretical and operational framework in the framework of the **"One Health"** approach. Therefore, every disciplines linked to the Management of Emerging Epidemic Risks are involved: **Veterinary medicine, Public Health, Ecology, Economics, Sociology, Geography, Modelling Sciences, Biostatistics**, etc.

GREASE provides scientific and institutional support to facilitate interactions between various stakeholders including:

- **Scientists** from Southeast Asia and worldwide
- **Decision-makers**: National veterinary services and Institutes, International agencies (OIE, FAO, WHO, etc.)
- **Local actors**: Farmers, market chains operators, local authorities, NGOs, communities' representatives, etc.

Contact

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Partnership

"GREASE is research and training platform in partnership implemented by Cirad and its partners in Southeast Asia".

The core members of this regional network coordinated by Cirad are: Kasetsart University (KU) in **Thailand**, the National Institute for Veterinary Research (NIVR) in **Vietnam**, the National University of Laos (NUOL), the National Veterinary Research Institute (NAVRI) in **Cambodia**, Central Mindanao University (CMU) in the **Philippines** and **Cirad**, a French agricultural research center.

Associated partners also participate in the network for the implementation of projects or workshops and for trainings organization: IPC, HKU-PRC, MU-A, AVSF, IRD, CNRS, OIE, FAO-RAP, AIT. An extension of this regional network's activities to **China, Hong Kong, Malaysia** and **Indonesia** is under development.

News

Epidemics 4
04/10/2013
Nov. 19-22, 2013 in Amsterdam, The Netherlands
[Read more](#)

Biting Insects as Vectors of Trypanosomes in South East Asia (Workshop / Training on BIVTSEA); from field to laboratory
03/10/2013
Nov. 18-22, 2013 at Veterinary Research Institute in Ipoh, Malaysia
[Read more](#)

2nd GRF One Health Summit
2013
03/10/2013
Nov. 17-20, 2013 in Davos, Switzerland
[Read more](#)

5th World Waterfowl Conference (WWC)
03/10/2013
Nov. 6-8, 2013 at the Sheraton Hotel in Hanoi, Vietnam
[Read more](#)

All the news

See also

Cirad in Southeast Asia:

- [Continental Southeast Asia](#)
- [Southeast Asian islands](#)

... **Development of a multidisciplinary approach through research/training projects and scientific networking**

One Health Initiative
One Health Initiative will unite human and veterinary medicine
[Read more](#)

INFLUENZA (H5N1, H1N1, ...?)
Direct Jump
Adaptation
Reassortment
[Read more](#)

Links among human, animal and environmental health



Biodiversity.be



→ To set up *One Health* community of practice

→ Merging a “case study” approach and capacity building:

“model diseases” as case studies for knowledge sharing and cross-sectoral collaboration

- Waste management and health (in Thailand)
- Encephalites: Regional long-term study on JEV and Nipah Virus
- Zoonotic diseases of livestock with a focus on parasitic diseases



This project is funded by the
European Union

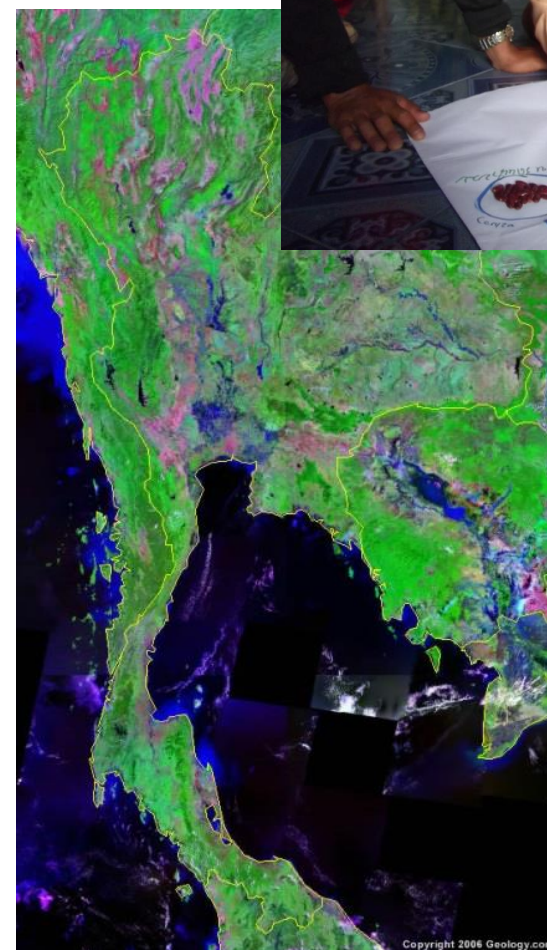
This project is
implemented by





Filling the gaps... and promoting systems thinking

- Through vocational trainings :
 - ✓ diagnostic tools
 - ✓ barcoding & biobanking
 - ✓ data analysis and databases management
 - ✓ Health GIS and risk mapping
 - ✓ participatory epidemiology & PRA (socioeconomics, wildlife and natural resources monitoring)
- Through academic OH curriculum (Master InterRisk)



This project
European U



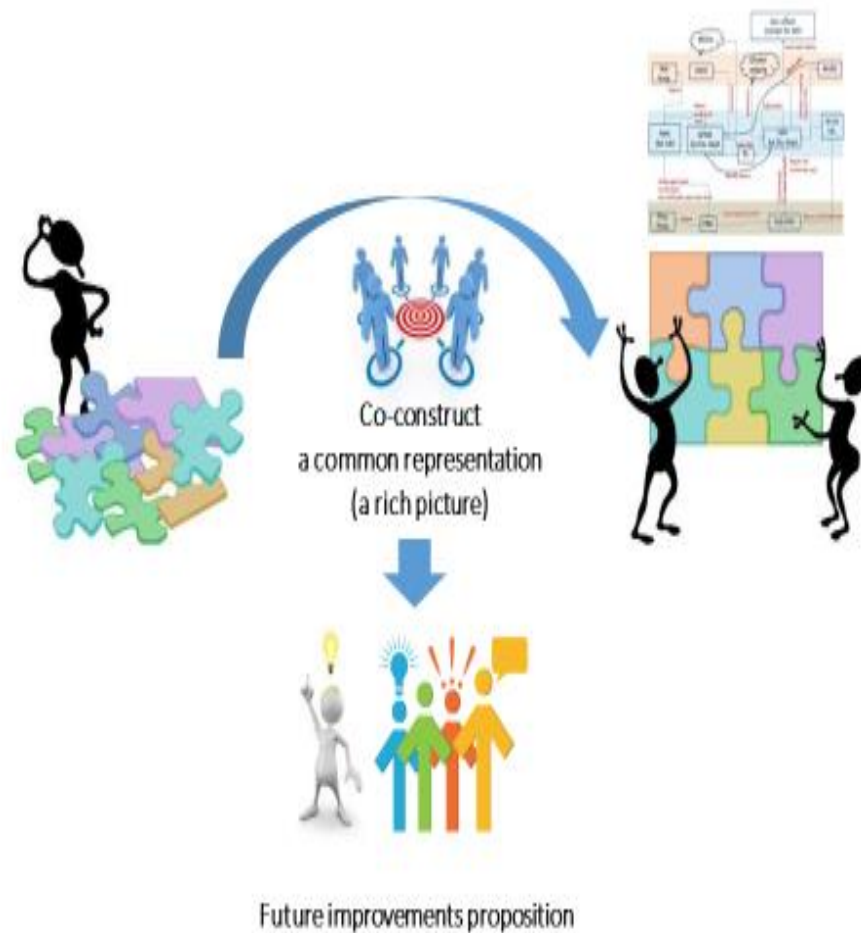
cirad
LA RECHERCHE AGRONOMIQUE
POUR LE DÉVELOPPEMENT



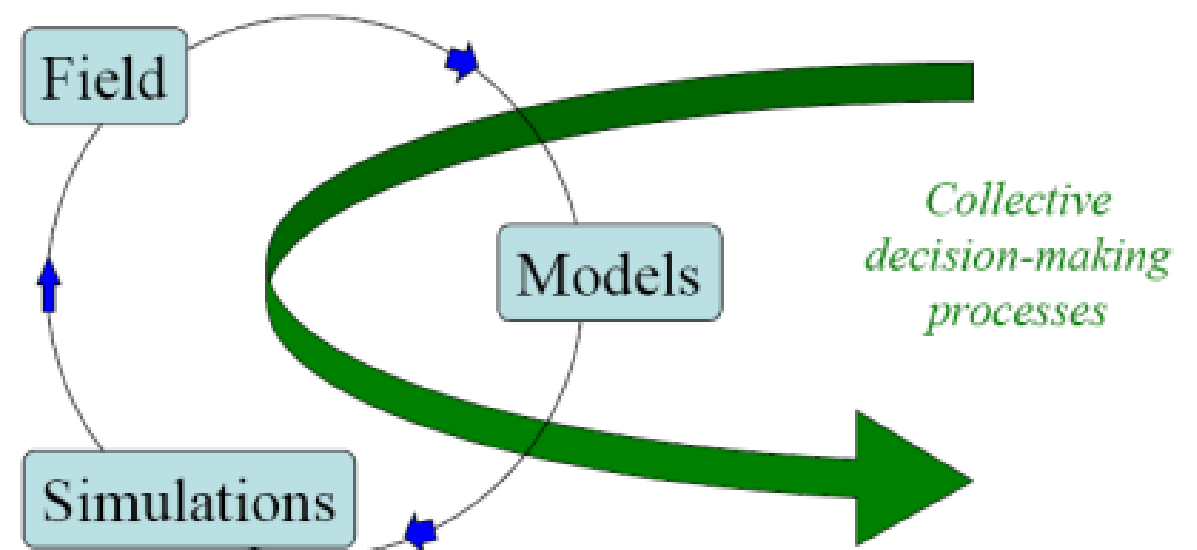
IRD
Institut de recherche
pour le développement

d

Co-construct a common representation of system context (POHM)



Need **deep understanding of the complex health issues** at Animal/Environment/Human interface (science-based evidence)



Promotion of participatory approaches to address One Health issues

- Promote cross-sectoral and interdisciplinary **collaborations**
- Training for **good coordination** among laboratories & stakeholders at regional level



A framework to promote collective action within the One Health community of practice: Using participatory modelling to enable interdisciplinary, cross-sectoral and multi-level integration



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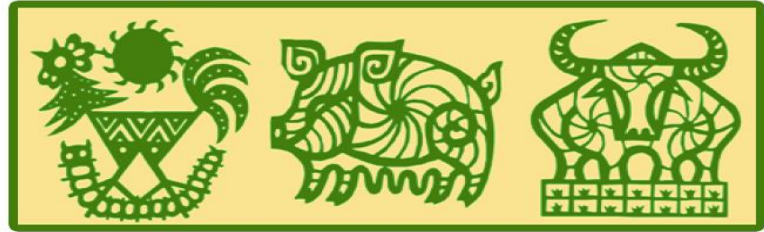
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A FRAMEWORK FOR INTEGRATION

- ✓ Revealing and strengthening the possible synergies between the various stakeholders involved.
- ✓ Enhancing their knowledge and competences to analyse and manage zoonotic diseases within a cross-sectoral and interdisciplinary framework

- Improved **coordination** and **systems thinking** capacities (POHM)
- Involvement of “non traditional” One Health stakeholders at different levels (local **authorities**)
- Co-management of “healthy environments” as a common resource / common good

GREASE



- Strengthening synergies among research institutions
- Shaping cross-sectoral interest groups for risk management

→ Facilitating scientific exchanges & fund raising (research & training, interventions)

Thank YOU...