

Controlling Avian Flu and Protecting People's
Livelihoods in the Mekong Region

**DFID-Funded Collaborative HPAI
Research Project
for Asia and Africa**

J. Otte, DU Pfeiffer and D. Roland-Holst

Workshop on HPAI Research and Policy in Cambodia
Sihanoukville, 8 October 2008

A Collaborative Research
Project Funded by:



Implemented by:



Overview



- Background & Motivation
- Project Goal & Objectives
- International Partners & Focal Points
- Main Issues (Research & Non-Research)
- Principles

HPAI Threats

- Poor peoples' livelihoods
 - disease itself
 - control measures
- Poultry industry
 - in affected countries
 - in non-affected countries
- Global public health
 - rural populations
 - urban populations



Motivation

- Approach taken to control HPAI:
 - top-down / command & control
 - almost exclusively technical orientation
 - short on institutional analysis
 - no use of market-based instruments
 - anti smallholder bias!!
- More of the ‘same’
 - laboratory networks
 - disease ‘intelligence & control centres’

Research Issues & Gaps

- Viral genomics – virus evolution
- Pathogenesis – in humans and poultry
- Immunology – vaccine development
- Disease ecology & epidemiology
- Differential impacts of disease and disease control
- Cost-effectiveness / cost-benefit of control
- Institutional angles of HPAI control
- Externalities / ‘global public goods’ aspects of HPAI control

Project Goal



Safe smallholder poultry enterprises and poultry markets in regions affected or at risk of HPAI while minimizing the potential spread of HPAI to humans

Project Objectives

1. Provide scientific basis for
 - cost-effective, and
 - ‘socially just’HPAI control **strategies**,
2. ‘Inject’ insights into
 - national,
 - regional and globalpolicy **processes**, and
3. Build **capacity** for evidence-based formulation of disease control policy



International Partner Institutions



International Food Policy Research Institute
Clare Narrod, Devesh Roy



International Livestock Research Institute
Jeff Mariner, Karl Rich



Royal Veterinary College, University of London
Dirk Pfeiffer



RDR Consortium, Berkeley University, California
David Roland-Holst, David Zilberman



Food & Agriculture Organisation, Rome
Joachim Otte, Anni McLeod

Regional / Country 'Responsibility'



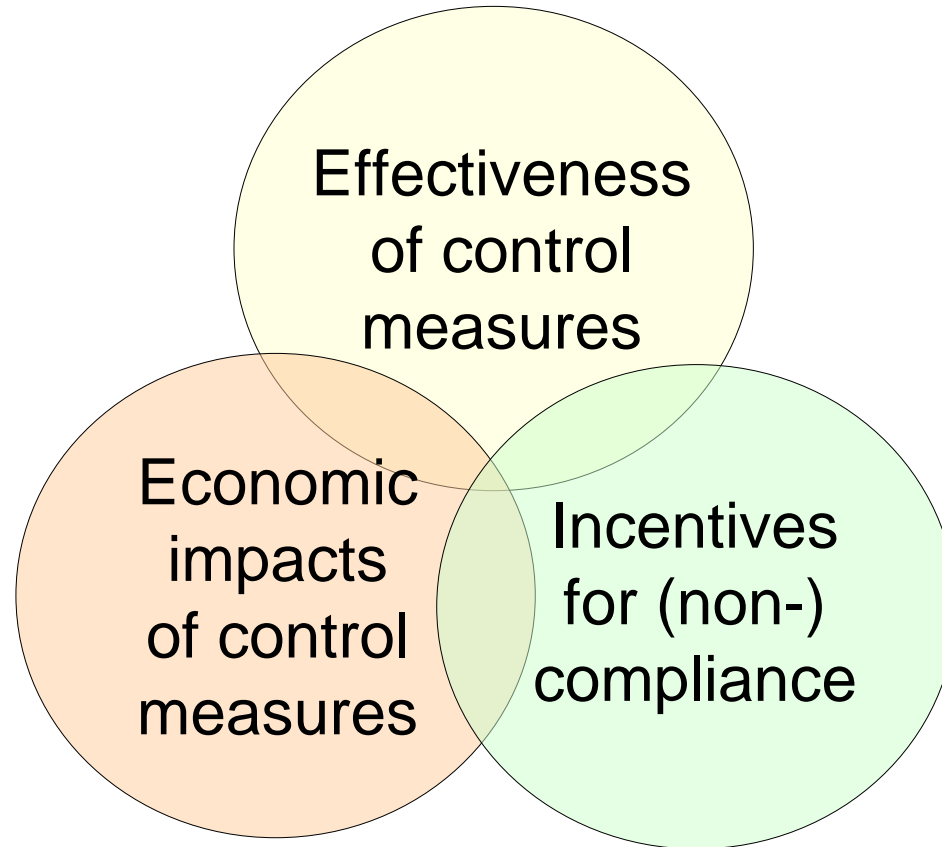
Indonesia, Ethiopia, Kenya,
Nigeria & Ghana



The Mekong Region: Thailand,
Cambodia, Viet Nam (Lao PDR)



Research Domains



Effectiveness of Control Measures

- Vaccination (vaccine? species? bird type? timing?.....)
- 'Bio-security' (farm? supply chain? markets? waste mgmt?..)
- Culling (radius? timing? tracing?.....)
- Surveillance (sensitivity? specificity?.....)



Economic Impact of HPAI & Control



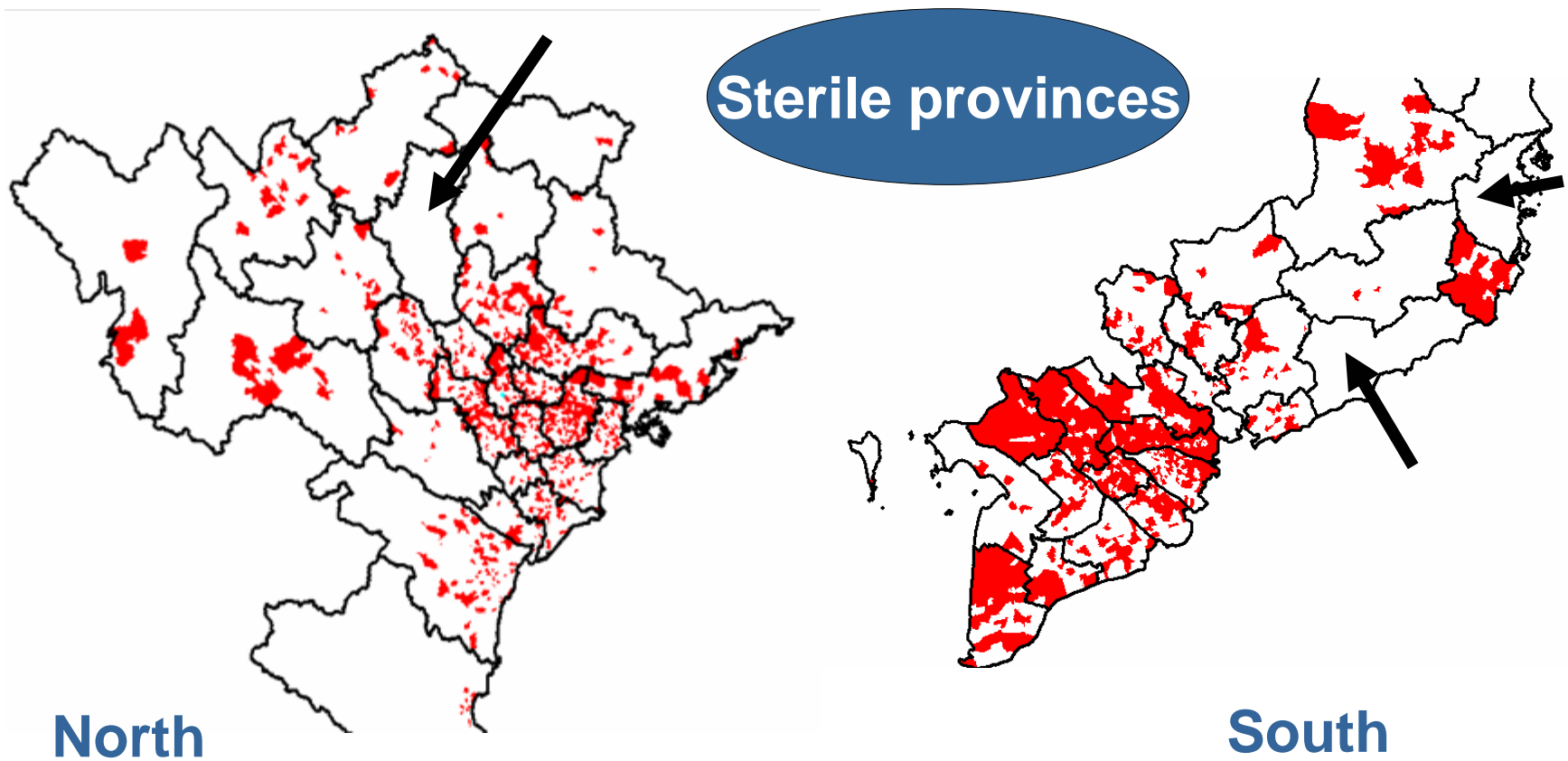
Scale

- Within-household
- Poultry sectors and supply chain agents
- National economy (spillover to / compensatory gains by other sectors)
- International / global

Time Frame

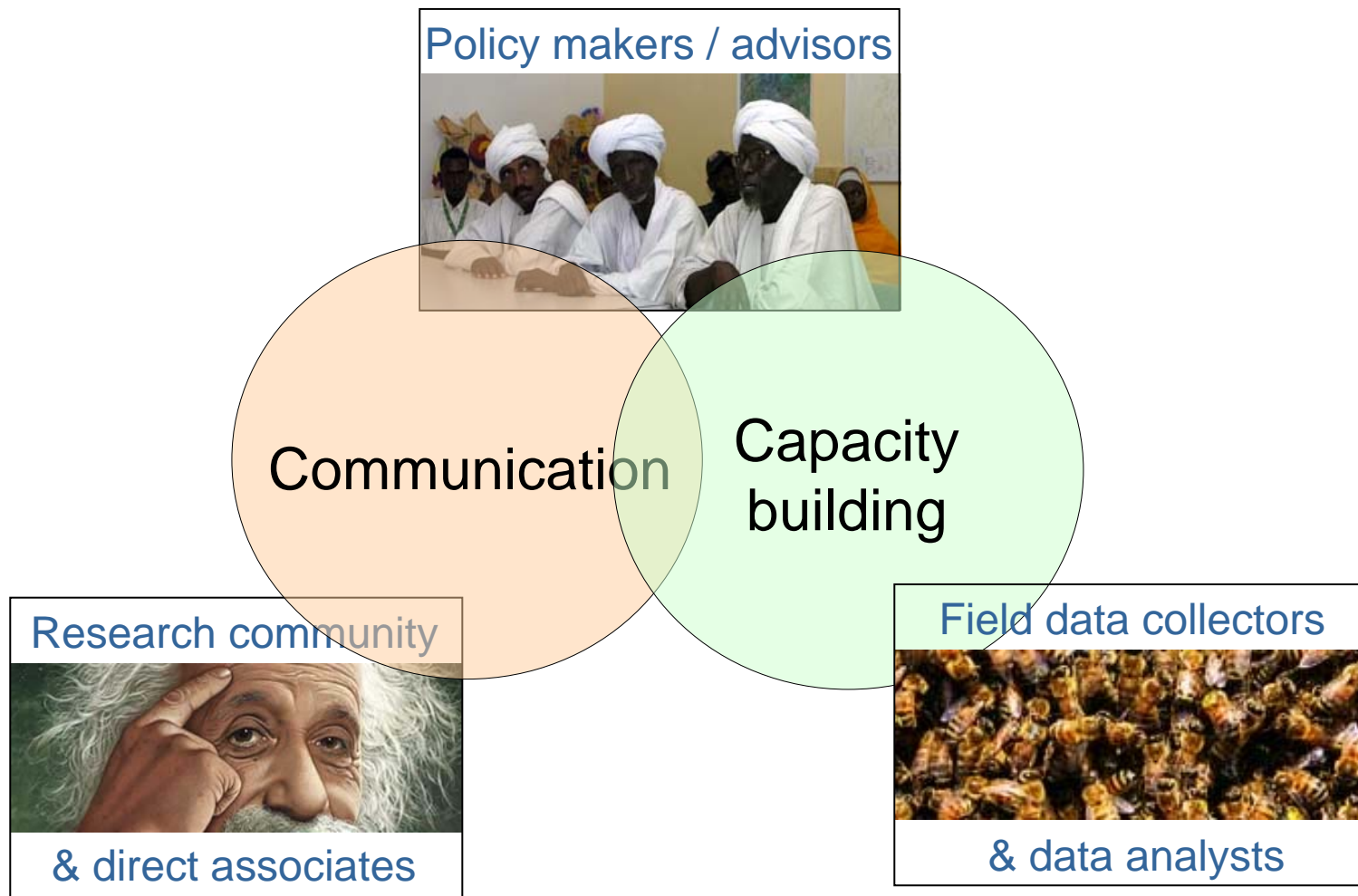
- Short-term / immediate
- Long term impacts

Incentives for Compliance



Source: Pfeiffer *et al.*, 2005

'Non-Research' Domains



Project 'Principles'

- transparent, disclosure of interim findings
- collaborative & trans-disciplinary
- iterative, ongoing adjustments
- constructive peer review
- end-user focused
- **open to collaboration & partnerships**





<http://www.hpai-research.net>