



# FAORAP Activities on HPAI Control

OIE Regional Meeting on Strengthening Animal Health  
Information Networking in Asia  
Japan, 7-10 Sep 2009

Pawin Padungtod  
Regional Project Coordinator  
GCP/RAS/221/JPN



# Acknowledgement

- FAO Technical Officers at country, regional and HQ offices
- FAO consultants
- Animal Health counterparts at country
- Researcher groups
- International partners





# FAO Response to HPAI

- Inform and communication
- Organize technical meeting and expert consultation
- Provide inter-agency coordination and collaboration at national, regional and global level
- Provide technical and operational assistance to improve country capacity
- Specific themes





# FAO Response to HPAI

## Technical and Operational Assistance

- National level
  - Assess country disease situation
  - Support diagnostic and surveillance
  - Guide and design strategies
  - Contingency planning
  - Provide equipment and laboratory consumables
- Regional level
  - Emergency regional coordination assistance for control of AI in SE Asia
  - Emergency regional support for post AI rehabilitation
  - Strengthening AI control through improved transboundary animal disease information management system in Asia
  - Sub-Regional surveillance and diagnostic laboratory network
- Global level
  - Emergency Center for Transboundary Animal Diseases



# FAO Response to HPAI Specific Themes



- National animal health information system
- Epidemiological analysis and disease intelligence
- Improve understanding of HPAI epidemiology
- Social and economic analysis, value chain study
- Rehabilitation and restructuring
- Basic and applied scientific research



**Monitoring  
and  
Early  
Warning**



## Mapping H5N1 highly pathogenic avian influenza risk in Southeast Asia

Marius Gilbert<sup>\*†</sup>, Xiangming Xiao<sup>‡</sup>, Dirk U. Pfeiffer<sup>§</sup>, M. Epprecht<sup>¶</sup>, Stephen Boles<sup>¶</sup>, Christina Czarnecki<sup>¶</sup>, Prasit Chaitaweesub<sup>||</sup>, Wantanee Kalpravidh<sup>\*\*</sup>, Phan Q. Minh<sup>††</sup>, M. J. Otte<sup>‡‡</sup>, Vincent Martin<sup>‡‡</sup>, and Jan Slingenbergh<sup>‡‡</sup>

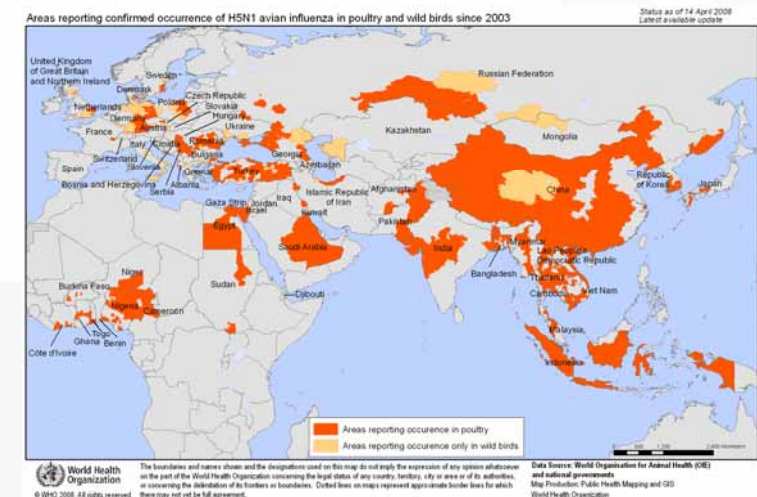
<sup>\*</sup>Biological Control and Spatial Ecology, Université Libre de Bruxelles, CP160/12, Avenue FD Roosevelt 50, B-1050 Brussels, Belgium; <sup>†</sup>Institute for the Study of Earth, Oceans, and Space, University of New Hampshire, 39 College Road, Durham, NH 03824; <sup>‡</sup>Epidemiology Division, Department of Veterinary Clinical Sciences, The Royal Veterinary College, University of London, London AL9 7TA, United Kingdom; <sup>§</sup>Swiss National Center of Competence in Research North-South, 3012 Berne, Switzerland; <sup>||</sup>Department of Livestock Development, Ministry of Agriculture and Cooperatives, Bangkok 10400, Thailand; <sup>\*\*</sup>Regional Office for Asia and the Pacific, Food and Agriculture Organization of the United Nations, Bangkok 10200, Thailand; <sup>††</sup>Department of Animal Health, Ministry of Agriculture and Rural Development, Hanoi, Vietnam; and <sup>‡‡</sup>Food and Agriculture Organization of the United Nations, Viale delle Terme di Caracalla, 00100 Rome, Italy





# Monitoring and Early Warning of HPAI

- Emergency approach
  - Short term projects
  - Contracts to experts and research groups
  - Aim at improved understanding of HPAI epidemiology in the region
    - Exploratory analysis of outbreak data
    - Spatial and temporal pattern of HPAI
    - Association of ecological information and HPAI occurrence





# Monitoring and Early Warning of HPAI

- Regular program
  - Long term program
  - Implemented by FAO under regular funding
  - Working through National Animal Health Information System
    - TADinfo – Lao PDR, Cambodia, Myanmar and Viet Nam
  - Aim at establishment of early warning system at regional and global level

A screenshot of the TADinfo website's login page. The page has a light beige header with the 'TADinfo' logo and the tagline 'TRANSBOUNDARY ANIMAL DISEASE INFORMATION SYSTEM'. To the right of the header are the FAO and WHO logos. The main content area features a login form with fields for 'Username:' and 'Password:', a language dropdown menu set to 'English', and a 'Login' button. To the right of the form is a photograph of a black and white cow's head. At the bottom of the page, there is a footer with copyright information: 'Copyright © 2007 FAO', and links for 'TADinfo', 'Disclaimer', and 'About'.



# FAO Programs

## Monitoring and Early Warning of HPAI

- EMPRES-i
- Daily monitoring of the situation
- Data mining through various sources
- Regional surveillance and laboratory network





# EMPRES-i Information Sources and Partners

- Official sources
  - OIE
  - EC
  - WHO
  - Reports from countries
  - Country or regional project reports
  - Field mission reports
  - Partner Non-Governmental Organizations
  - FAO field officers
  - Laboratories and reference centers
- Inofficial sources
  - Rumors
  - Media reports
    - ProMed, GPHIN, FMDnews





# Regional Surveillance Network

- ECTAD Asia
  - Disease tracking system
  - Disease and geo-reference database
  - Informal communication forum
- AI Network Asia
  - Email circulation
  - News and disease situation





# Regional Laboratory Network

- FAO guiding principle for HPAI surveillance and laboratory diagnosis
- HPAI laboratory equipment and supplies have been provided by various donors at country level
- HPAI laboratory personnel have been trained on HPAI diagnosis at various levels by various donors at country and regional level
- International sample submission facilitated by FAO





# FAO Future

## Move towards longer term activities and beyond HPAI

- Capacity development
  - Post graduate training
  - Field Epidemiology Training Program for Veterinarian (FETPV)
- Regional collaboration
  - Regional expert
  - Regional emergency response team
  - Risk intervention across border
  - Introduce system approach to conduct continuing disease and risk monitoring
- Key to success
  - Commitment from member countries
  - Support from regional political organization : ASEAN, SAARC

