

Background Information on Indonesia: HPAI, Poultry Production and Plan of Progressive Control 2009-2011

Elly Sawitri Siregar
HPAI-Campaign Management Unit/CMU
Directorate of Animal Health
DGLS-MoA

Risk Pathway Workshop
DFID-funded Pro-poor HPAI Risk Reduction Strategies
Salak Hotel, Bogor, 24-26 November 2008



Poultry Numbers

- Annual population 1.5 billion
- Standing population:
 - Village Chicken 300m (~600m annually)
 - Layer 100m
 - Broiler 175m (~1b annually)
 - Duck 35m
 - Total >600m
(plus others – quail, pigeon, goose...)

Source: Statistik Peternakan 2005

The Poultry Industry

- Total investment US\$ 35b
 - Turnover US\$ 30b pa
 - People employed >10m
 - Feed production 7.5m MT pa
 - DOC broiler >1b pa
 - DOC layer >100m pa
 - Markets daily 13,000 markets
 - Abattoir processing ~20%
- (Estimated 60% of households have poultry i.e. ~30m)

Source: Association of Poultry Industries (2004)

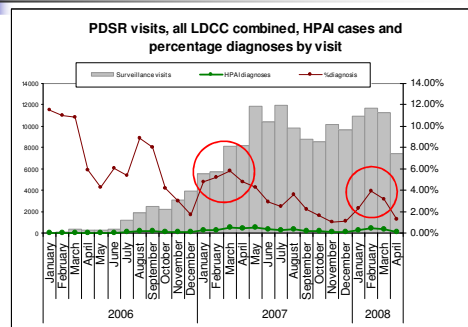
HPAI Situation in Poultry in Indonesia

- From 2003 - 2008 : Infected area 31/33 prov, 294/498 districts, poultry death 13 million.
- Based on level of cases, 3 area :
 1. Free (2 prov) : North Maluku, Gorontalo
 2. Endemic (18 prov): Jawa, Sumatra, South and Southeast Sulawesi
 3. Low Incidence (13 prov):Nusatenggara (east,west), Bali, Kalimantan (South,central,west,east), Maluku, Papua, West Papua, Sulawesi (north,central,west)
- No report of AI cases during last 6 months : Bali, NusaTenggara, Kalimantan, Maluku, West Papua, Papua, North Sulawesi, Bangka Belitung

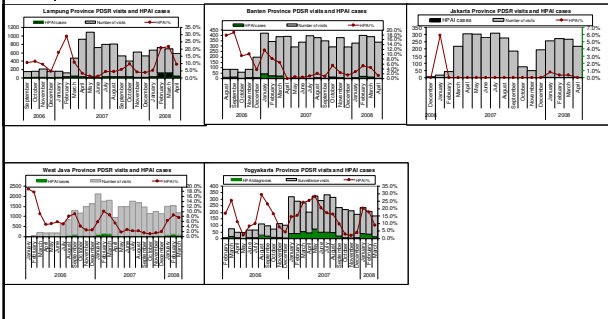
Total poultry density



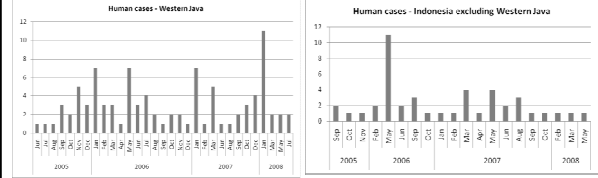
Surveillance, old PDSR database: Jan 2006 – April 2008



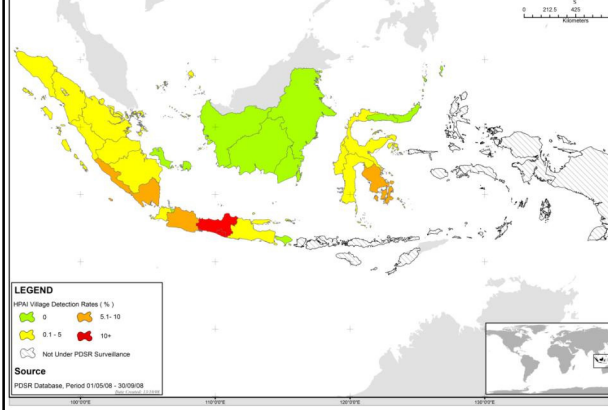
Cases present with yearly pattern: Lampung, Banten, DKI, West Java, Central Java and Yogyakarta



Human H5N1 cases



Village HPAI outbreak detection rate, May – Sept 2008

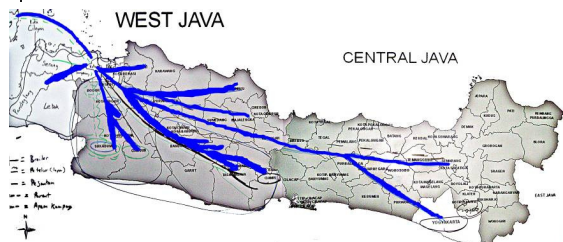


Example of village-level mapping capability of new PDSR database

- Red:** INFECTED
- Blue:** CONTROLLED
- Yellow:** SUSPECT 60 (lower risk, conduct follow-up investigation in 60 days)
- Orange:** SUSPECT 14 (high risk, conduct follow-up investigation in 14 days)
- White:** not yet visited by PDSR

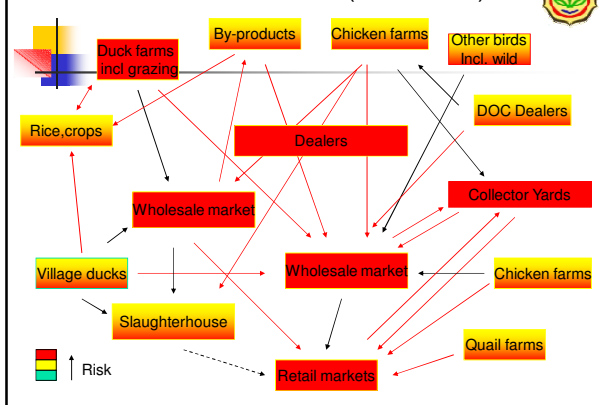


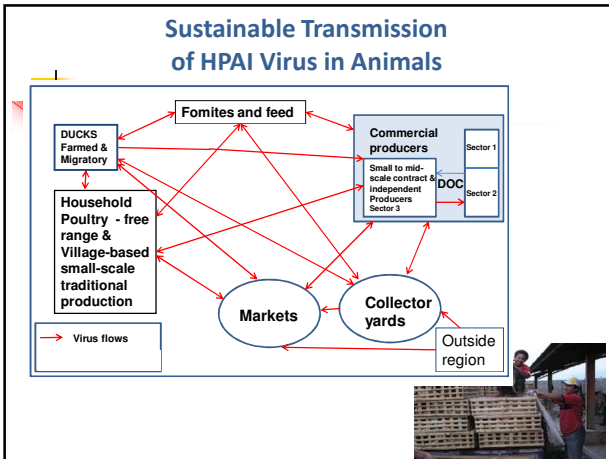
Poultry Movements



Virus affecting both humans and local poultry may not be locally produced, but instead introduced from outside sources

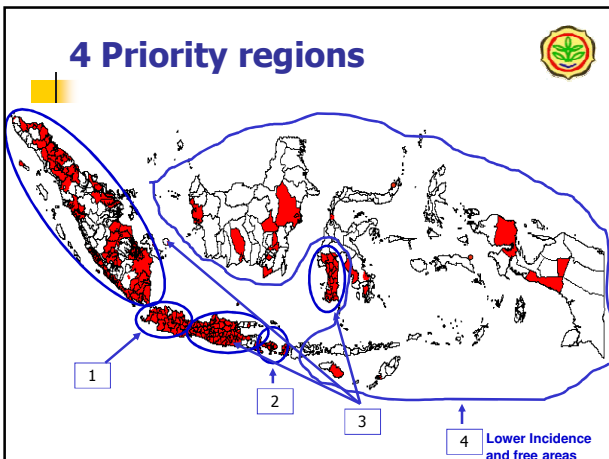
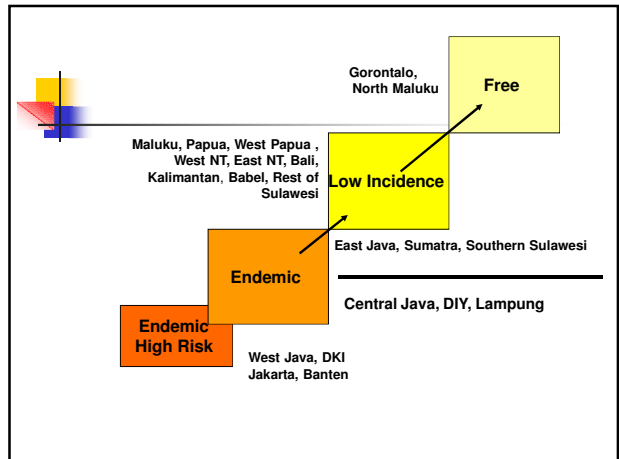
2007 Indonesia (after Sims)





- ### Overall goals NSWP 2009 – 2011 (draft)
- Refocusing on progressive control and prevention of HPAI in poultry commercial industry and market chains
 - Reduce impact on poultry production and community livelihoods
 - Maintain and expand free status area of HPAI by control and prevention
 - Reduce risk of transmission to human

- ### Regional Prioritization
- 4 Regions
 - Western Java (West Java, Banten, DKI Jakarta)
 - Bali
 - Rest of Java (East Java, Central Java, Yogyakarta), Sumatera and Southern Sulawesi
 - Low Incidence (West Nusa Tenggara, Kalimantan, Rest of Sulawesi, Maluku, Papua, West Papua) and Free area (Gorontalo, North Maluku)
- Considering AI cases in poultry, cases in human and poultry density.



- ### Plan of progressive control HPAI in Western Java, 2009
- Goals and Purpose indicators:
- Reduction of
 - human cases in JABODETABEK
 - Poultry and human cases in rest of western Java



Strategic Objectives for Western Java Intensification

- Intensify **surveillance** in markets and commercial target areas
- Increase cooperation and strategic planning between **public and private sectors**
- Expedite poultry **market chain restructuring** in DKI Jakarta
- Strengthen and intensify **immediate control and risk reduction** activities, incl. targeted vaccination to reduce viral load in western Java
- Strengthen **coordination** between central, regional and local authorities



Plan of Progressive Control HPAI in Bali


Goal and Purpose indicators:

No case in human and reduce prevalence in poultry



Strategies Objective for Bali

- Intensify **profiling and surveillance** in all poultry (market/commercial, duck, village)
- Improve poultry **movement control** between East Java and Bali
- Promote **local poultry production** and raise public awareness
- Strengthen immediate control activities to **reduce risk**
- Enhance **public awareness** via multifaceted IEC approach



Plan of Progressive Control HPAI in Rest of Java (East Java, Central Java, Yogyakarta), Sumatera and Southern Sulawesi



Rest of Java

- Goal and Purpose indicators
 1. Reduce number of poultry outbreaks per provinces
 2. Establish regional management of control program in rest of Java
- Strategies
 1. Enhance disease surveillance and control capacity
 2. Improve understanding disease epidemiology on rest of Java in order to determine critical control points



Southern Sulawesi

- Goals and Purposes
 1. Reduction in poultry cases in all sectors
 2. No human cases

Strategies Objective for Southern Sulawesi

- Establish a comprehensive and collaborative prevention and control programme managed by local government
- Animal disease surveillance & control systems
- Village level biosecurity and communication
- Commercial industry biosecurity and risk reduction
- Movement management (control) along market chain
- Baseline and ongoing data collection, surveillance and monitoring

Sumatera

■ Goals and Purposes

1. Reduce number poultry outbreaks per province
2. Test integrated animal disease control program

■ Strategies

1. Enhance government disease surveillance and control capacity across all poultry sectors and marketing systems
2. Improve poultry movement control in both northern and southern Sumatera

Plan of Control HPAI
in Low **Incidence Area**
(West Nusa Tenggara, Kalimantan, Rest
of Sulawesi, Maluku, Papua, West
Papua) and **Free area** (Gorontalo,
North Maluku)

Low Incidence and Free Areas

■ Goal and Purpose :

1. Ascertain freedom from disease in very low incidence and free provinces
2. No HPAI cases in low incidence provinces

■ Strategies :

1. Establish sensitive surveillance and rapid response system
2. Implement clear policy for establishing and maintaining free provinces
3. Promote local poultry production and inter provincial cooperation

Programme Management

■ Goal and Purpose :

Improve quality of animal health services and control program management for successful completion of activities within the MoA 2009 National Work Plan for HPAI Control in Animals

Strategies of Programme Mangement

- Increase expertise and human capacity for campaign management
- Integrate management of the nationwide animal control programme under supervision of Directorate of Animal Health
- Improve government support funding and sustainability of HPAI control programme
- Strengthen laboratory support system
- Coordinate targeted research for HPAI control

