



**General Directorate of Animal Health and Production  
Ministry of Agriculture, Forestry and Fisheries**



# **Avian Influenza situation in Cambodia**

Avian Health Workshop

July 17 -19, 2018, University of Japan

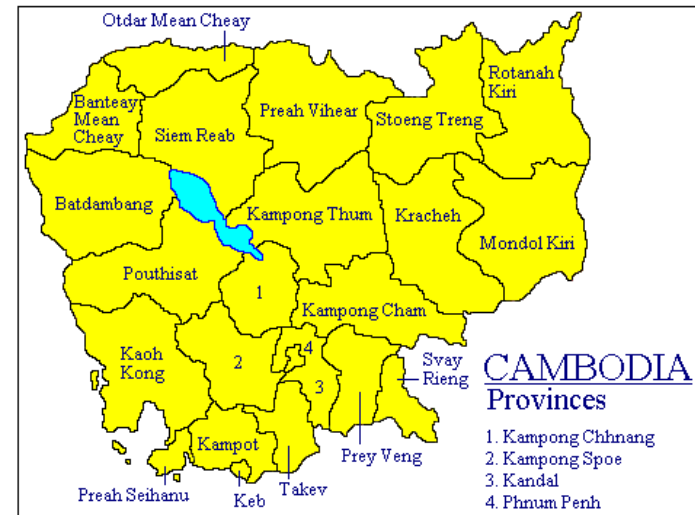
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General Directorate of Animal Health and Production (GDAHP)

# Outlines

- Introduction
- Avian Influenza Situation
- Prevention and control measures
- Challenge

# Introduction (1/2)

- Cambodia border with Laos PDR to the northeast, Thailand to the north and west, Vietnam to the east and south and Gulf of Thailand to the southwest
- 181,035 square km; 24 provinces
  - 185 districts
  - 1,623 communes
  - 13,864 villages
- Est. population 15.6 million



# Introduction (2/2)

- **Livestock Productions**

- Livestock plays an important role in providing nutrition for the Cambodian population
- Animal production is a source of livelihood for Cambodian people
- Poultry population in Cambodia, 2017:
  - 28.559.702 heads (Chickens, Ducks and Geese)

# Poultry production systems

- Semi-commercial system



- Traditional/ backyard system

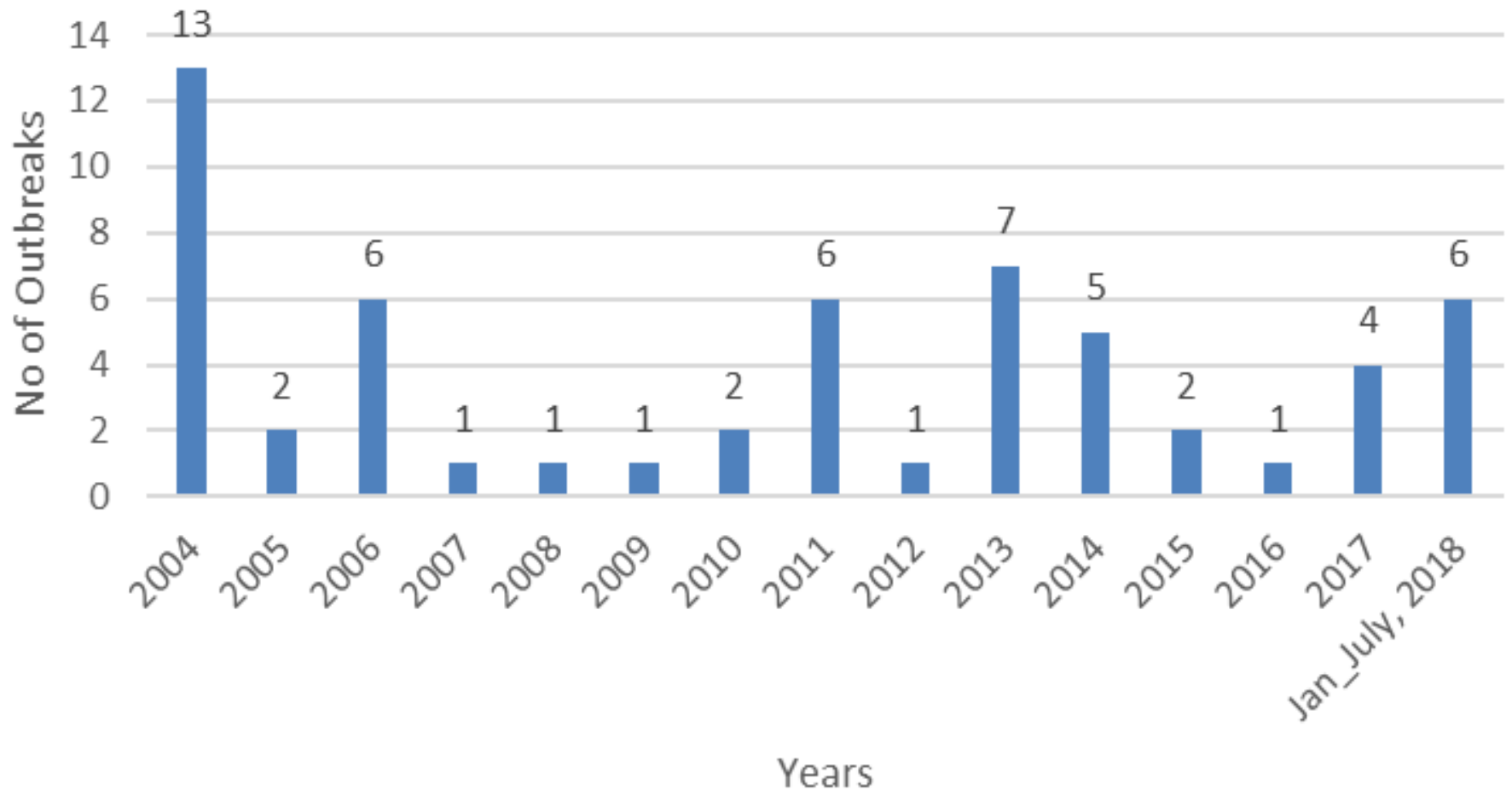


# Avian Influenza Situation in Cambodia

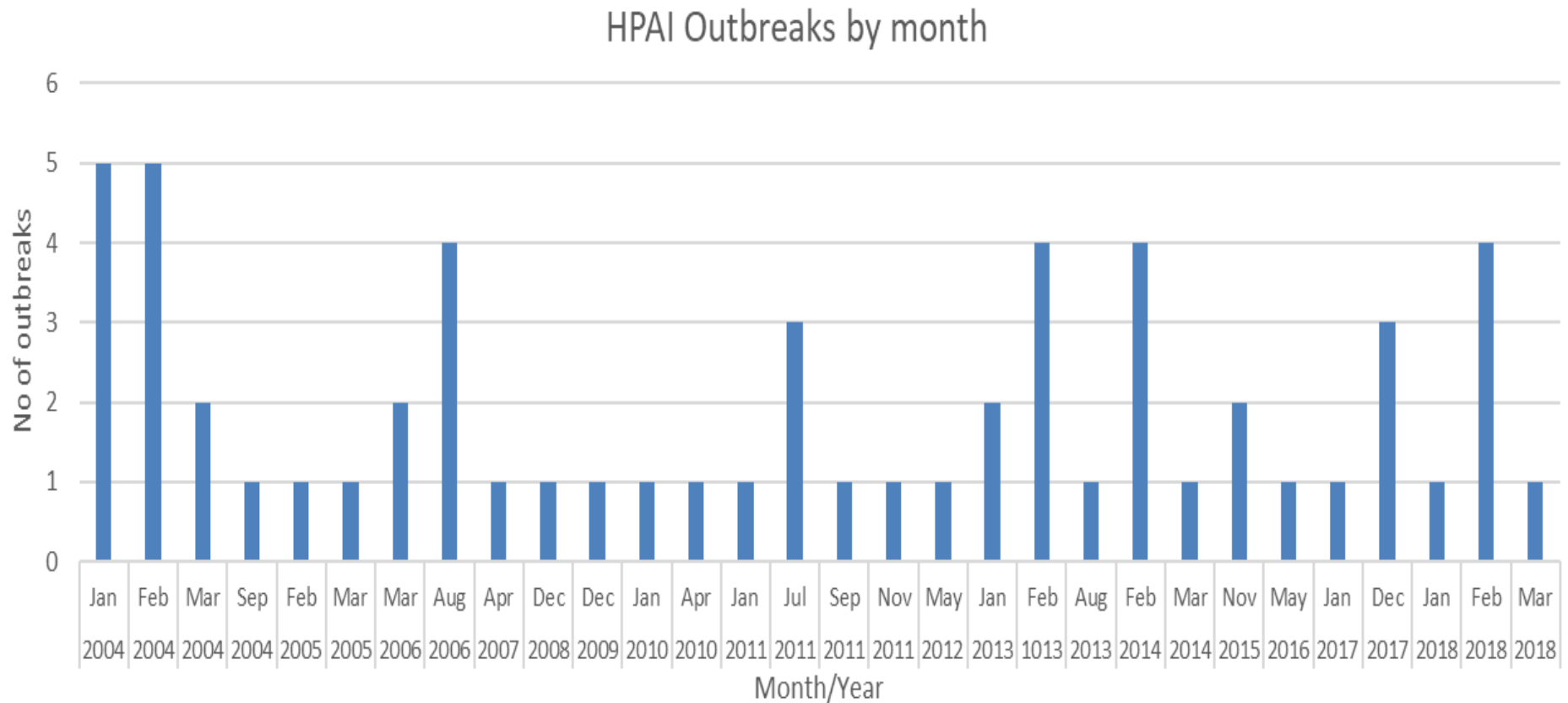
- Cambodia met first experience of HPAI
  - Poultry in 2004
  - Human in 2005
- No of H5N1 outbreaks, Cambodia
  - Poultry in 2004 - up to date : 58 outbreaks
  - Human in 2005 – up to date: 56 Human cases (37 dead)

# 58 H5N1 Outbreaks on Poultry (2004 to July 2018)

HPAI Outbreak in Cambodia



# H5N1 Outbreaks on poultry by month (2004 to July 2018)





# Avian Influenza Situation in 2018

- **From Jan - July, 2018** : there are 6 H5N1 outbreaks reported from 1 city and 5 provinces :
  - Phnom Penh city (2),
  - Mondulkiri (1),
  - Kandal (1),
  - Prey Veng (1)
  - Siem Reap (1).

# **Activities implemented during outbreaks**

# Task Force 1: Investigation & Diagnosis

- Investigates
- Collects samples
- Conducts surveillance
- Diagnosis
- Records database
- Trains provincial investigation teams

# Task Force 2: Communication

- Records information from the field
- Produces daily report about AI situation
- Designs material (leaflets, TV production, radio broadcasts...)
- Spreads information to their TF, Director of GDAHP and MAFF
- Trains provincial teams to organise information meetings
- Manages the meetings planning in the district

# Task Force 3: Control Measures

- Conducts culling and destroying the carcasses in infected places
- Controls the checkpoint at the border and the poultry movements in the country
- Trains the provincial action teams
- Conducts referencing of semi-commercial and commercial farms
- Teaches the farmers how to improve the bio-security
- Each Task Force is managed by a Chief. A National Coordinator coordinates the 3 Task Forces activities reporting it to the Director of DAHP and the MAFF. This organization is supported by a National Consultant and Technical Advisor.

















# 406 Billboards in 24 provinces and 90 Tuk Tuk



# Prevent and Control of HPAI

Control and Prevent HPAI

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graph TD; A[Control and Prevent HPAI] --> B[Legislation Measures]; A --> C[Veterinary Measures];
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Legislation Measures

Veterinary Measures

# Legislation Measures

- Government
  - Established an Inter-ministerial Committee for Control of HPAI
- Ministry of Agriculture, Forestry and Fisheries
  - Established Provincial Sub-Committee for HPAI control
  - Sub-degree #16 of Animal and Animal Product Sanitary
  - **Pass legislation** (*prakas*) to establish temporary international border checkpoints and ban the importation, transportation, sale or purchase of live poultry, eggs, fresh and refrigerated poultry meat, and any products of both wild and domestic poultry origin from countries infected with HPAI
  - Impose inter-provincial transport bans by the refusal to issue transport health certificates
  - Stamp out new outbreaks in confirmed HPAI-infected areas
  - Allow selective culling
  - Alert provincial veterinary services and VAHWs to report and control any suspected outbreaks

# Veterinary Measures

- Meeting with provincial animal health and production offices to control and investigate the suspected avian influenza along the border;
- To implement the control measures; Animal movement control, Bio-security, Culling, Surveillance.
- Ban importation of poultry and its products from infected counties.

# **Disease reporting Systems**

# Reporting Systems

**Farmers, Village Chief, Animal owners**



**Village Animal Health Workers (VAHWs)**



**District Animal Health and Production Office (DAHPO)**



**Provincial Animal Health and Production Office (PAHPO)**



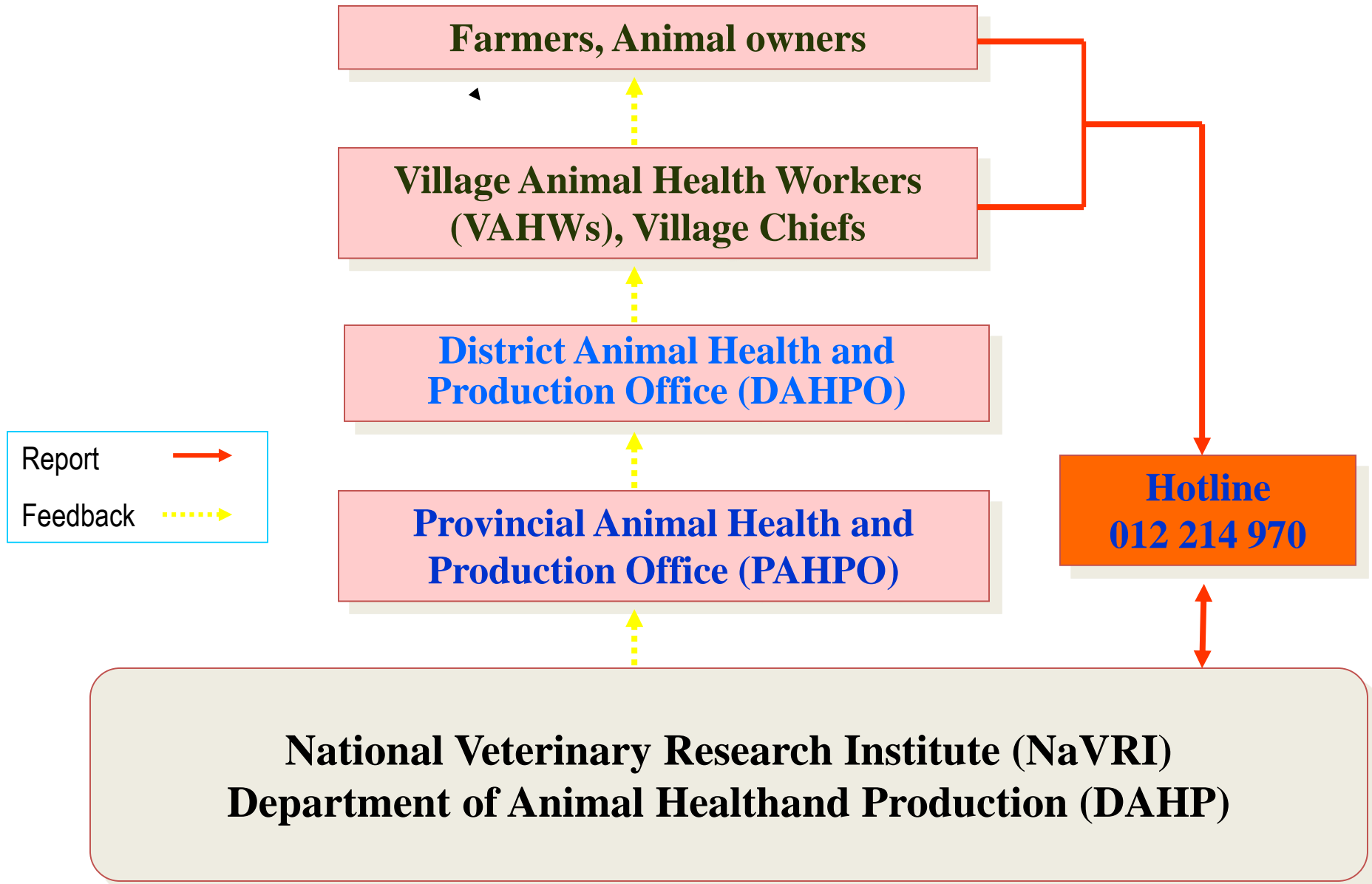
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General Directorate of Animal Health and Production (GDAHP)**

Report →

Feedback ←



# Suspected case of animal disease outbreaks





# HPAI Hotline



- We work all together to prevention and control the HPAI. If there is sick or dead poultry please call HPAI hotline as the following number:  
012 833 795 or  
012 214 970

# Disease reporting Systems

- Regional level: WAHIS
  - Immediate notification
  - Follow up report

# Vaccination program

- Newcastle Disease, Cholera, Pox, Duckplage, Bronchitis, Marex, Gumboro (Owners)
- No HPAI vaccination program

# HAPI surveillance program in Cambodia



# Collaboration

- Ministry: MOH
- Institute: IPC, NIPH
- ONGs: VSF, CARE, ROK.....etc
- International Organizations: SEAFMD, JICA, OIE, WHO, FAO, ACIAR, USDA, USAID.....etc

# Challenge

- Illegal poultry movement
- No compensation
- How to encourage farmers to report poultry disease?
- Budget





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