

# **PUBLIC - PRIVATE PARTNERSHIP FOR AVIAN INFLUENZA CONTROL AND PANDEMIC PREPAREDNESS**

Presented by

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Avian Influenza Control and  
Pandemic Influenza Preparedness**

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# Indonesia: Confirmed Human Cases (by 17 May 2008)

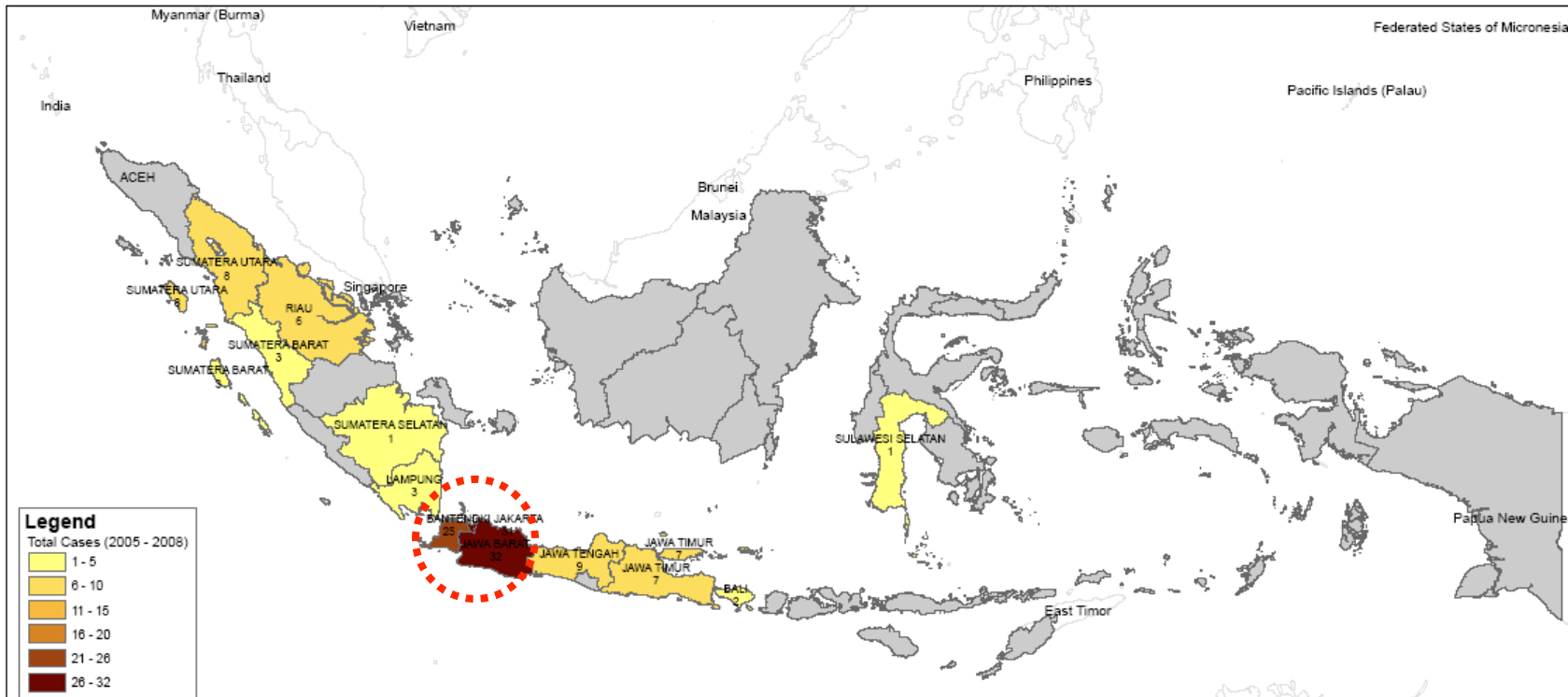


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# INDONESIA- H5N1 in Humans by Province,

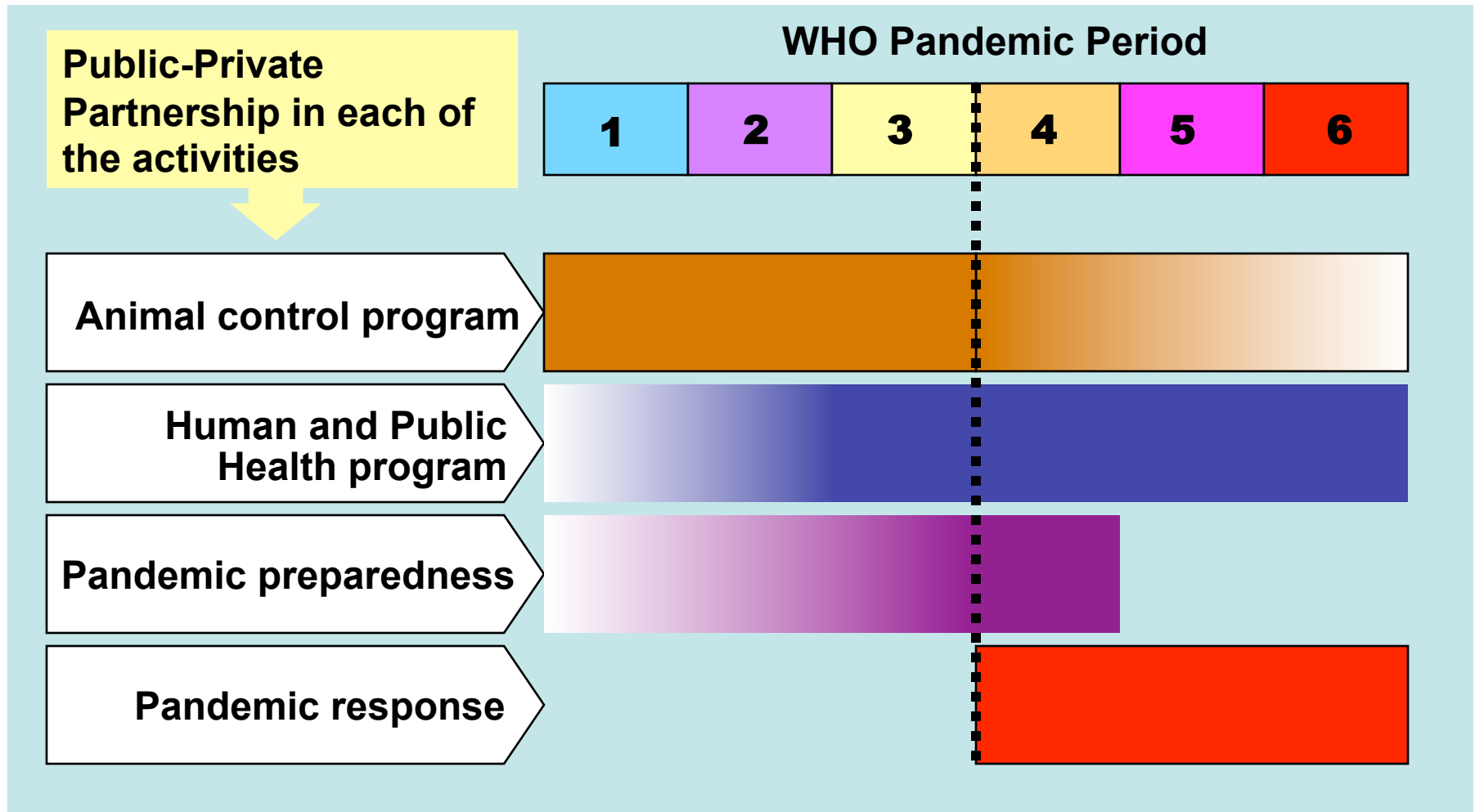
10 March 2008



## AI Challenge in Indonesia :

- 225 million people, 17.200 island, spread equal to the distance of from Seattle to New York, from London to Damascus.
- Annual income per capita: US\$2000
- AI in bird: endemic in 31/33 provinces
- 110 death in 3 years (TBC: average 400 death in a month)
- 60% of human death cases are in Greater Jakarta area, population of 30 million people, center of government, center of business activities, etc.

# Stages in AI Situation: Response Program and Preparedness



## Public Private Partnership in Animal Control Program



### Poultry Industry Restructurisation

**Restructure Indonesia poultry: Sector 3 & 4, slaughter house, market facilities, transportation and logistic facilities for poultry and poultry product; and supporting facilities (i.e. BSL3 laboratory)**

### Integrated Poultry Program for AI:

- surveillance
- biosecurity
- vaccination
- culling
- compensation

- **With and for poultry businesses**
- **Cooperation between large and small scale enterprises**

**Risk communication and public awareness**

## Public Private Partnership in Human and Public Health Program



**Reference hospital  
and other health  
facilities  
(laboratories, etc)**

- **100 hospitals**
- **Including privately-own  
hospital**



**Capacity building for  
doctors and health  
personals**

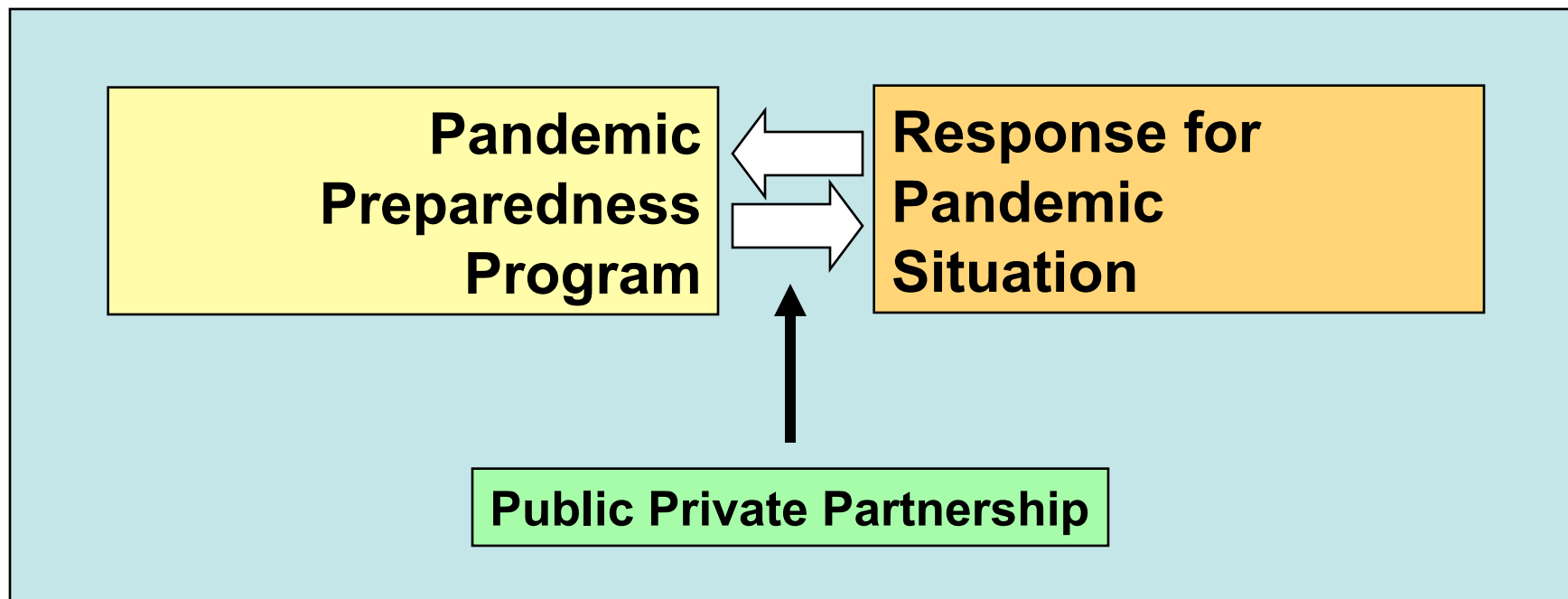
**Production and  
distribution :  
pharmaceutical and  
non-pharmaceutical  
measures**

- **Vaccine development**
- **PPE supply**

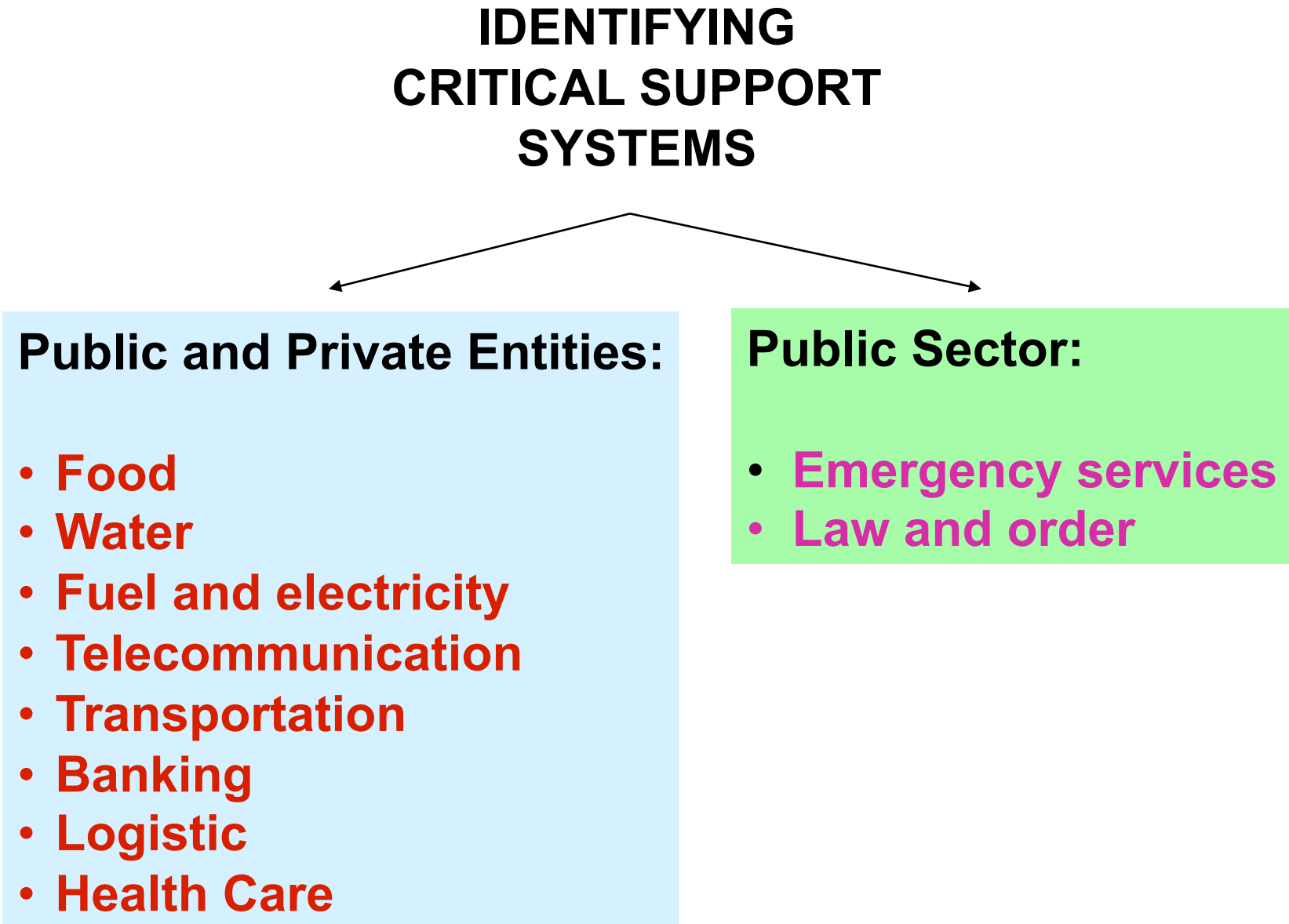
**Risk communication  
and public  
awareness**

## Pandemic and Pandemic Preparedness

**The potential threat of Influenza Pandemic is real ...  
It is impossible to predict when and where a  
pandemic might occur  
But it is certainly possible to be prepared.**



# IDENTIFYING CRITICAL SUPPORT SYSTEMS



## Public and Private Entities:

- **Food**
- **Water**
- **Fuel and electricity**
- **Telecommunication**
- **Transportation**
- **Banking**
- **Logistic**
- **Health Care**

## Public Sector:

- **Emergency services**
- **Law and order**



## **Public Private Partnership in Pandemic Preparedness and Pandemic Response**

### **1. Building understanding and awareness**

- What is pandemic influenza ?**
- What is the threat ?**
- How will we know if/when it appear first ?**
- What should we do if/when it appear ?**
- How to recover from pandemic situation ?**

### **2. Establishing process and mechanism for surveillance and control**

### **3. Developing specific process and mechanism in pandemic situation for private sectors:**

- Internal entities / company**
- For public support**

## **Public Private Partnership in Pandemic Preparedness and Pandemic Response**

### **Pandemic Context and Measures (by March 2008) :**

- **Epicenter can be anywhere, inside or outside the country**
- **Transmission and spreading of influenza virus can be from outside and inside the country**
- **Geographical spread will be rapid with practically no geographical barrier.**
- **Clinical disease attack rate will be 30% in overall population, 20% of working adult will become ill during an outbreak. All demographic groups are at risk.**
- **Rates of serious illness, hospitalization, and death will be high.**
- **Rates of absenteeism will be high. Quarantine, isolation, closing of school and offices will increase absenteeism.**
- **Incubation period is approximately 2-3 days. Epidemic will last 8-10 weeks in affected communities.**

## Public Private Partnership in Pandemic Preparedness and Pandemic Response

### **Pandemic Context and Measures** (by March 2008) :

- **Pandemic Measures:**
  - **Pharmaceutical and non-pharmaceutical intervention**
  - **Isolation**
  - **Quarantine**
  - **Social distancing**
  - **Closing places of assembly**
  - **Worried-well situation (healthy people who avoid the work place for fear of exposure)**
  - **Logistic and supports.**

**Potential  
impact on  
critical  
support  
system**

## Public Private Partnership in Pandemic Preparedness and Pandemic Response

<i>Anticipation</i>	<i>Preparation</i>
<b>Absenteeism for critical support system</b>	<ul style="list-style-type: none"> <li>▪ <b>Minimum operating scenario</b></li> <li>▪ <b>Back up personnel</b></li> <li>▪ <b>Priority for vaccination</b></li> </ul>
<b>Limitation of mobility (and transportation)</b>	<ul style="list-style-type: none"> <li>▪ <b>Back up system</b></li> <li>▪ <b>Special transport and mobility arrangement</b></li> </ul>
<b>Panic and rush :</b> ❖ <b>financial</b> ❖ <b>food</b> ❖ <b>fuel</b> ❖ <b>etc</b>	<ul style="list-style-type: none"> <li>▪ <b>Socialization</b></li> <li>▪ <b>Safeguarding</b></li> </ul>

## Other Critical Success Factor:

### International Cooperation :

- Influenza pandemic is borderless, no country immune from pandemic
  - No country have the total preparedness capability
  - Need a cooperation and collaboration
- **Critical: international common understanding and system compatibility.**

**Thank you**