

# Thailand's perspective on capacity building of public health preparedness and response

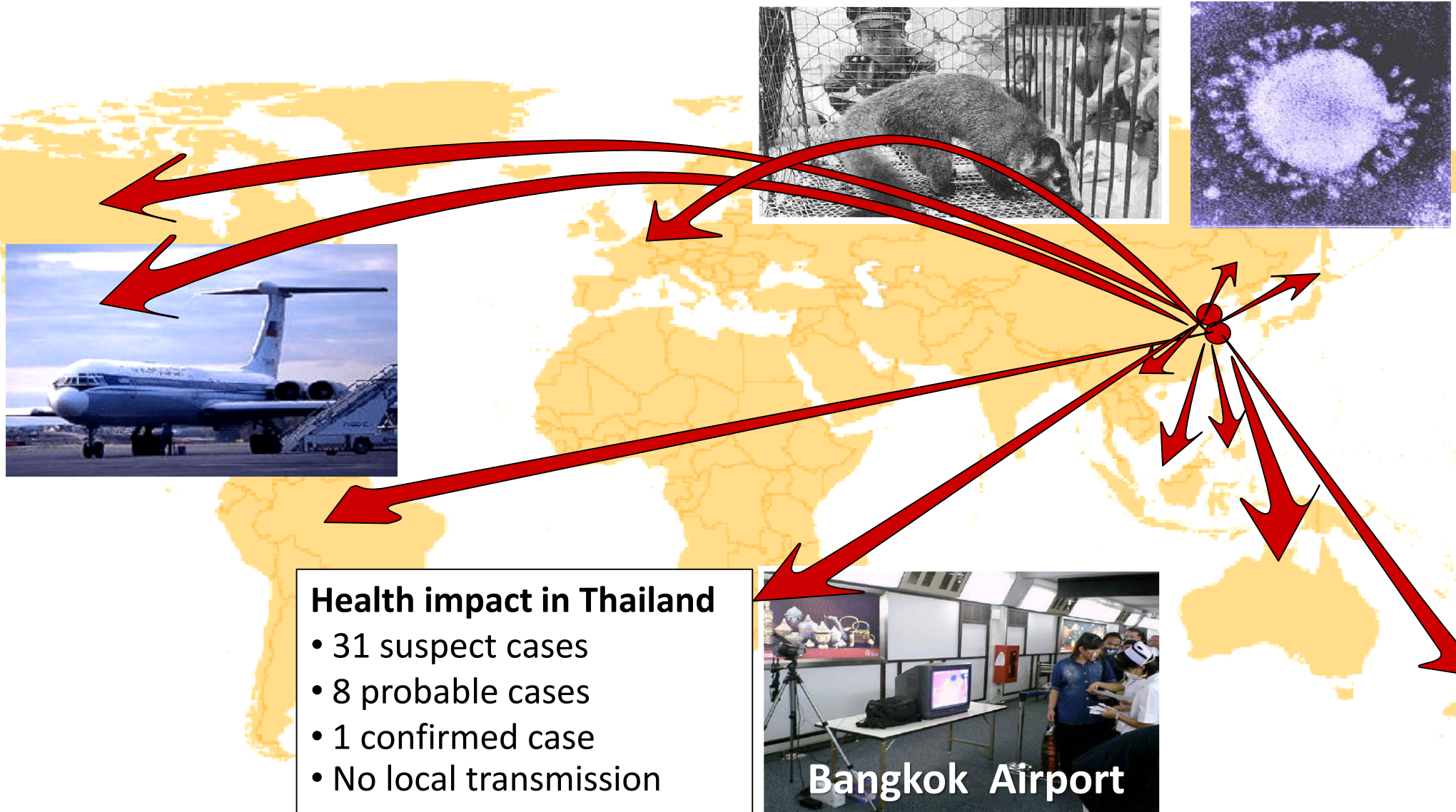
International Conference on the Implementation  
of the Health Aspects in the Sendai Framework for  
Disaster Risk Reduction 2015-2030

**Bangkok, 10 March 2016**

# Major disasters in Thailand 1980-2014

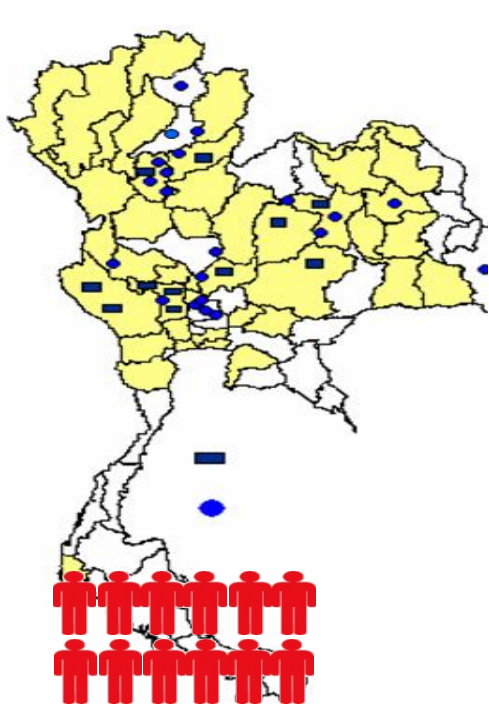
Type of disaster	No. of occurrence	No. affected persons	No. deaths
Flood	65	50,250,750	3,587
Storm	30	4,235,503	895
Drought	9	29,982,602	NA
Earth quake & tsunami	4	84,546	8,347
Landslide	3	43,110	47
Extreme temperature	1	1,000,000	63
Wild fire	1	0	0
<b>EID - SARS</b>	<b>1</b>	<b>TBD</b>	<b>1</b>
<b>EID - Avian flu</b>	<b>TBD</b>	<b>TBD</b>	<b>17</b>
<b>EID- pandemic flu</b>	<b>1</b>	<b>TBD</b>	<b>&gt; 200</b>

# SARS outbreak 2003

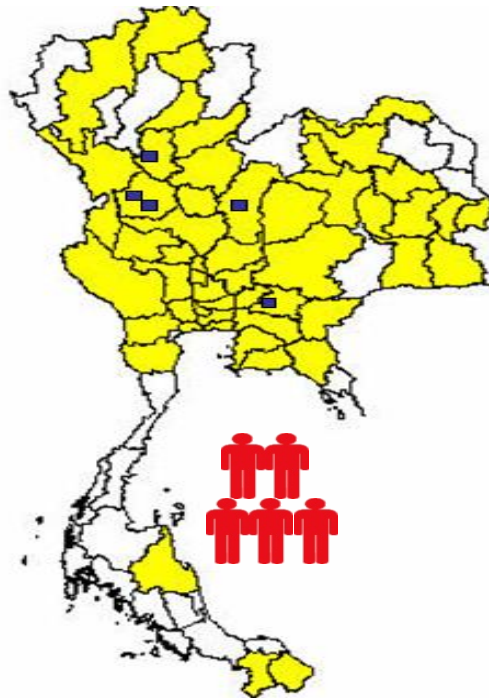


# Distribution of avian influenza H5N1 in poultry and human cases, 2004-2007

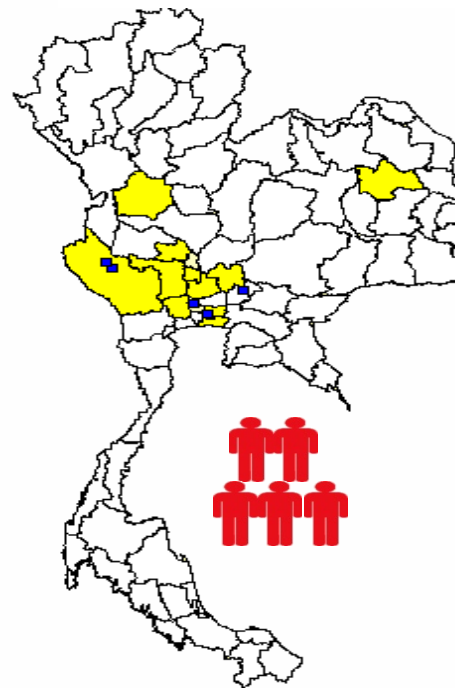
Jan-May 04



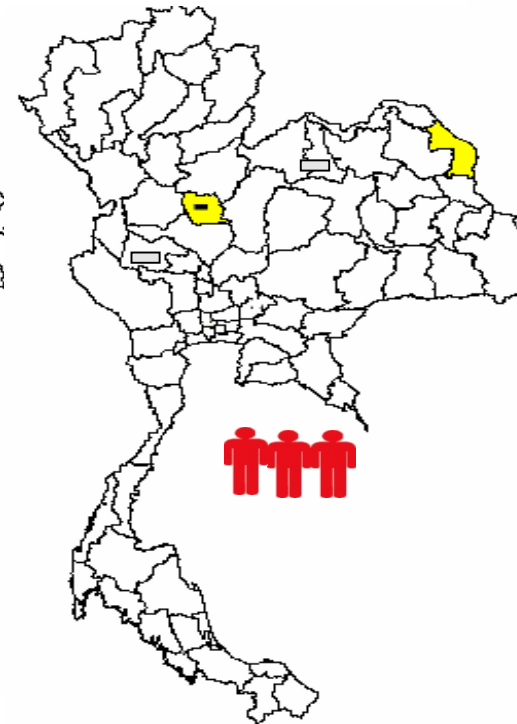
Jun-Oct 04



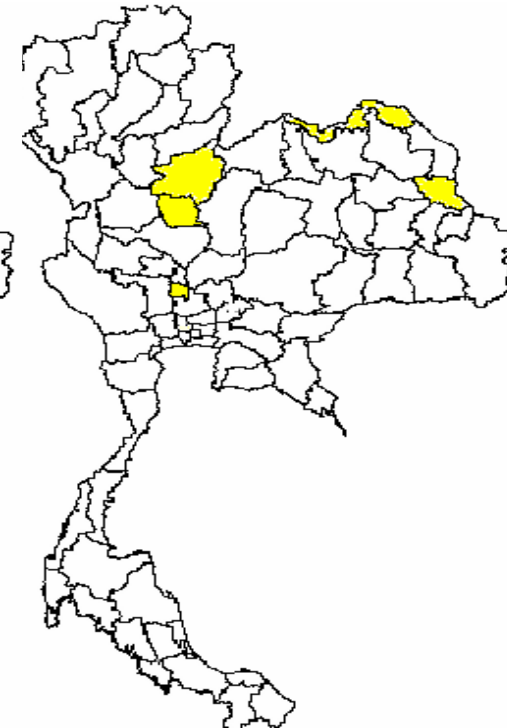
Jul-Nov 05



Jun-Aug 06



Jan-Nov 07



Confirmed case



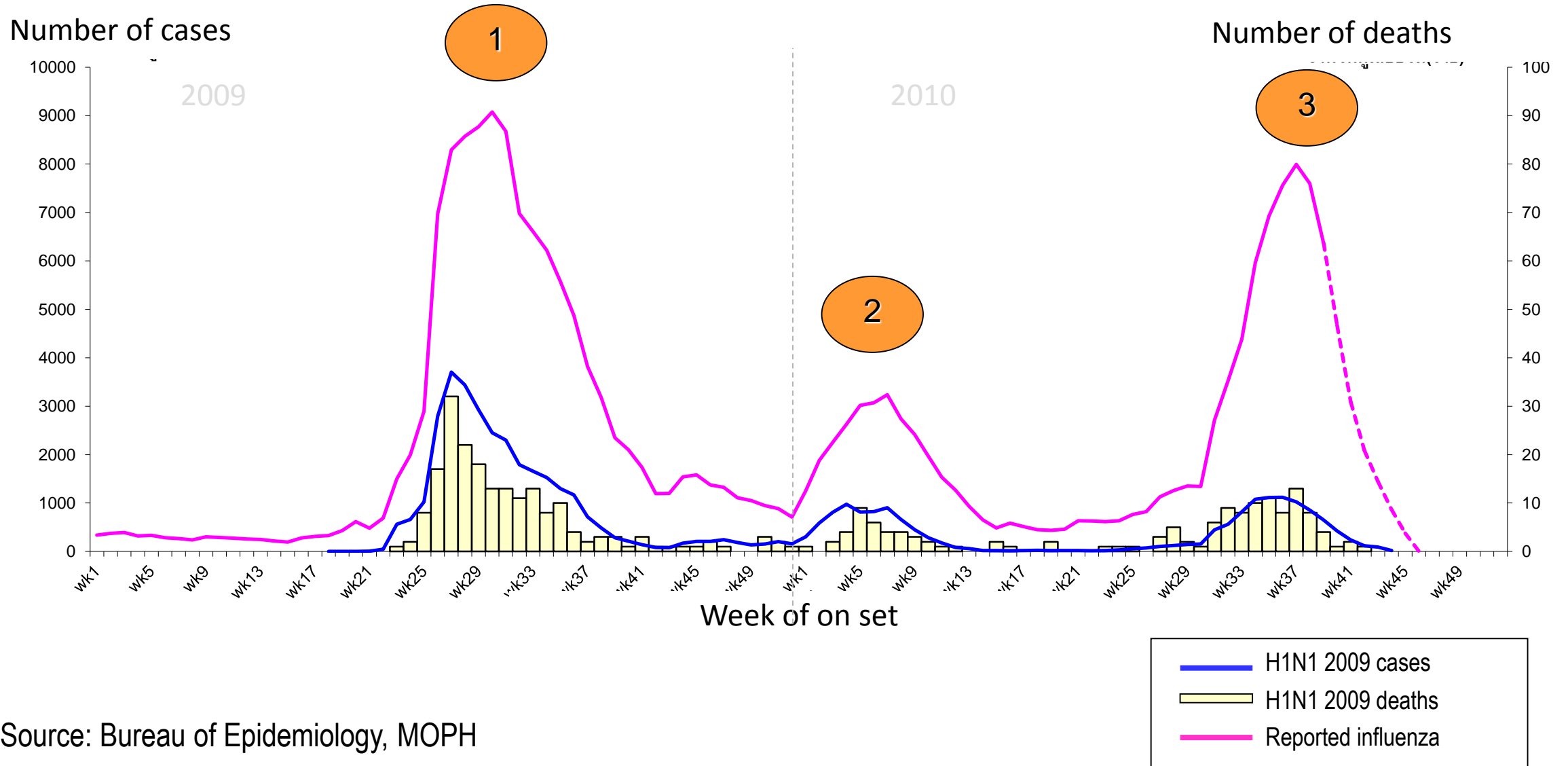
Suspect case



Poultry outbreak

*Total 25 cases/ 17 deaths during  
2004-2006,*

# Pandemic influenza H1N1 2009 in Thailand



Source: Bureau of Epidemiology, MOPH

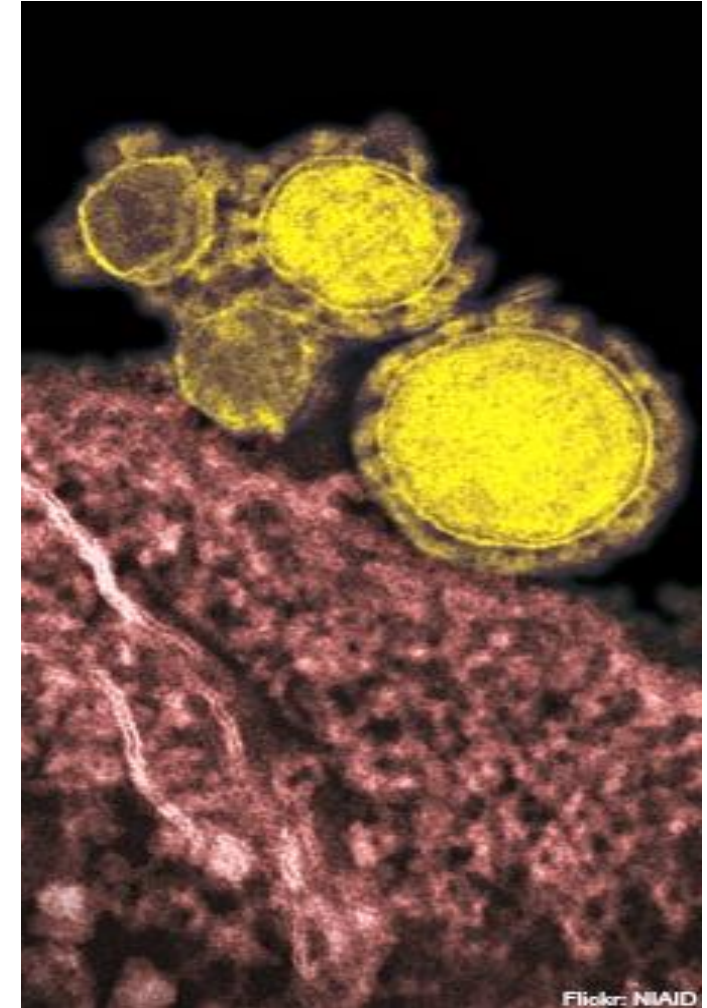


# Flood 2011: Innovations in crisis



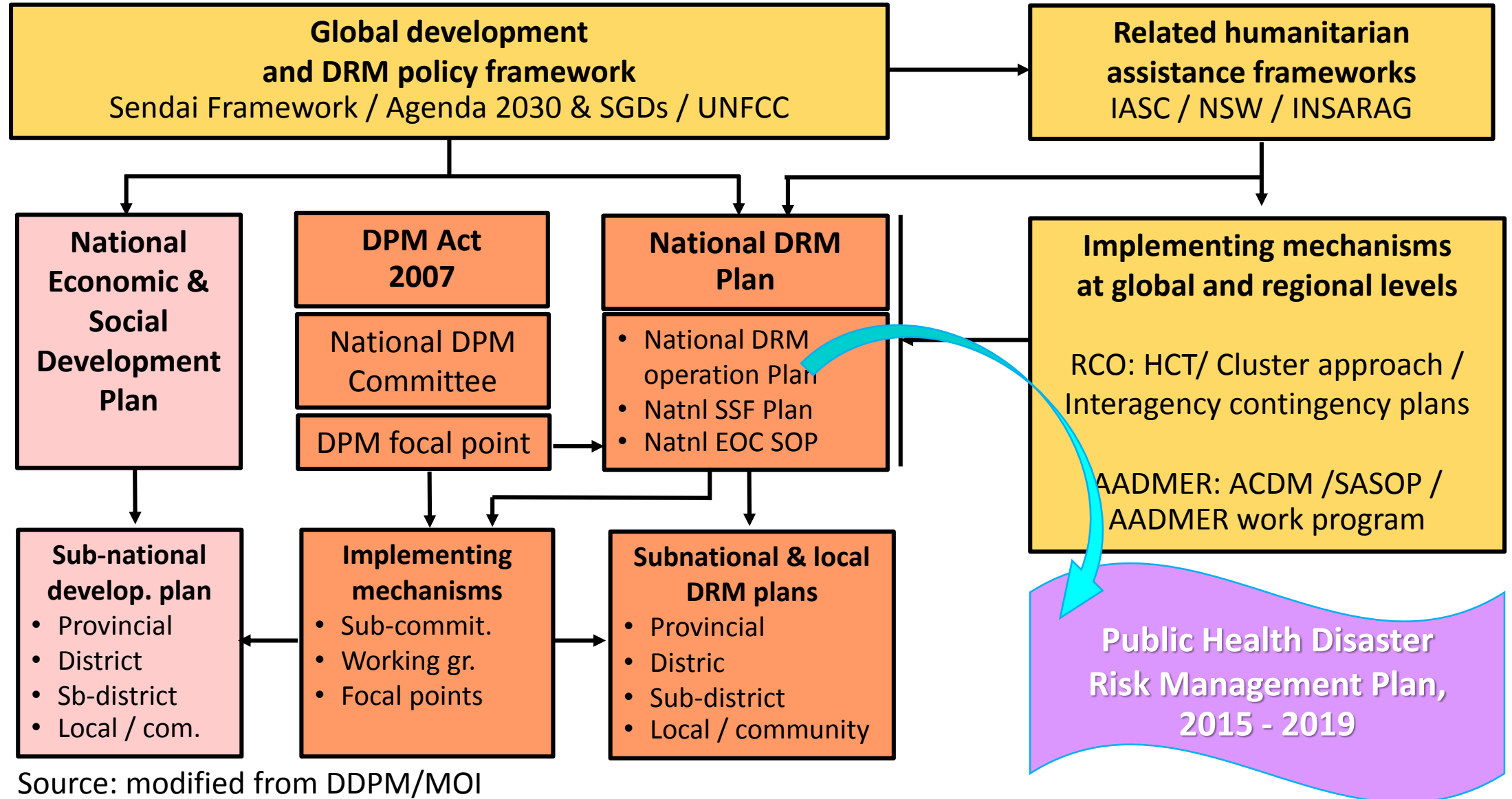
# MERS CoV Preparedness

- Strengthen ILI/ pneumonia/ SARI surveillance at airports and in all provinces; focusing on Hajj pilgrims and travelers from ME
- Train SRRT on MERS CoV surveillance; investigation & control in the community
- Train hospital staff on MERS CoV care with strict infection control, based on revised CPG
- Simulation exercises at central and provincial levels
- Risk communication, targeting travelers



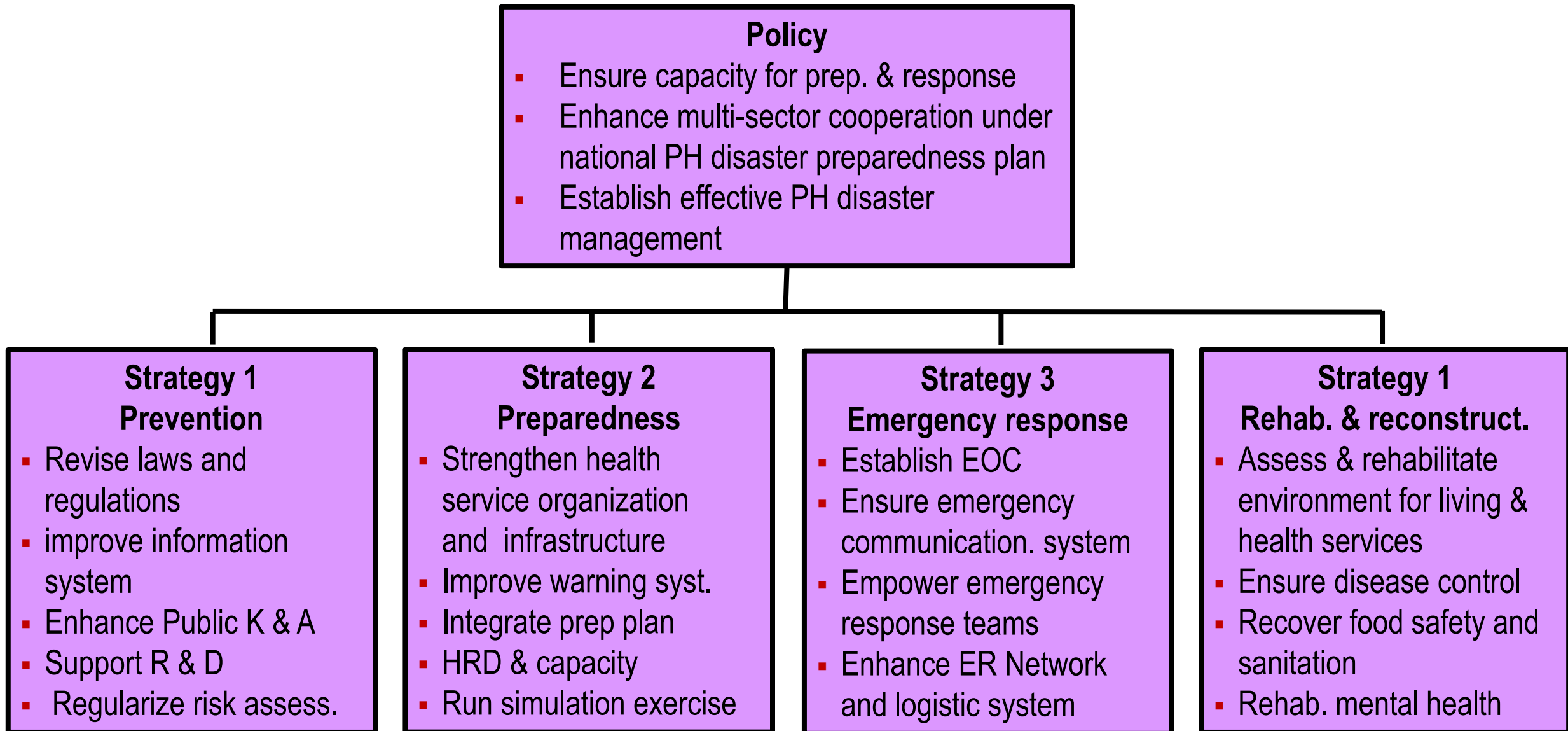


# National DRM mechanism and international linkages





# Public Health Disaster Risk Management Plan, 2015 - 2019



# Recommendations for implementation of the health aspects of Sendai Framework for DRR 2015-2030

- Enhance cooperation between health authorities & stakeholders to strengthen capacity for DRM & IHR
- Stimulate public & private investment in DRR
- Promote integration of DRR in national health policies & plans
- Integrate DRR into education & training
- Incorporate disaster-related data into multi-hazards early warning system, health core indicators
- Support cross-sectoral & transboundary collab.
- Promote coherence and development of national policies, strategies, legal frameworks.



*Turning crises into opportunities*

# Major capacities built in the response to SARS, 2003

- **Surveillance**

- epidemiologic definition adopted for early detection
- MOPH-CDC cooperation initiated for serologic testing

- **Stockpiling**

- PPE stockpiling initiated

- **Hospital infection control**

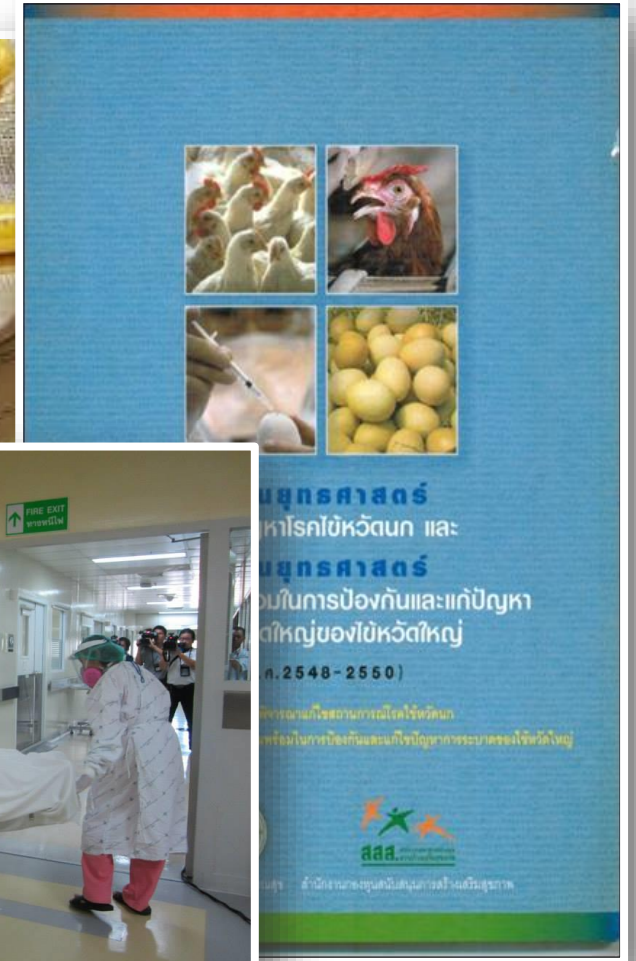
- BIDI accelerated hospital infection control system
- IC in public hospital activated, BIDI serving as training center for hospital IC



*Turning crises into opportunities*

# Major capacities built in the response to avian influenza, 2004

- **Surveillance**
  - ILI surveillance initiated
  - PCR lab expanded
  - SRRT expanded
- **Stockpiling**
  - Oseltamivir stockpile initiated
  - PPE stockpile increased
- **Risk communication**
  - Local RC networking strengthened
- **National Committee established**
- **National plan on AI and PIP created**
- **Simulation exercise initiated and carried out at various levels**





*Turning crises into opportunities*

# Major capacities built in preparedness & response to pandemic influenza H1N1 2009 (1)

- **Surveillance**

- ILI, SARI surveillance strengthened
- PCR lab further expended, confirmation available in 24 hours

- **Stockpiling & logistics**

- Oseltamivir expanded, local production established
- PPE stockpile expanded

- **Vaccine capacity**

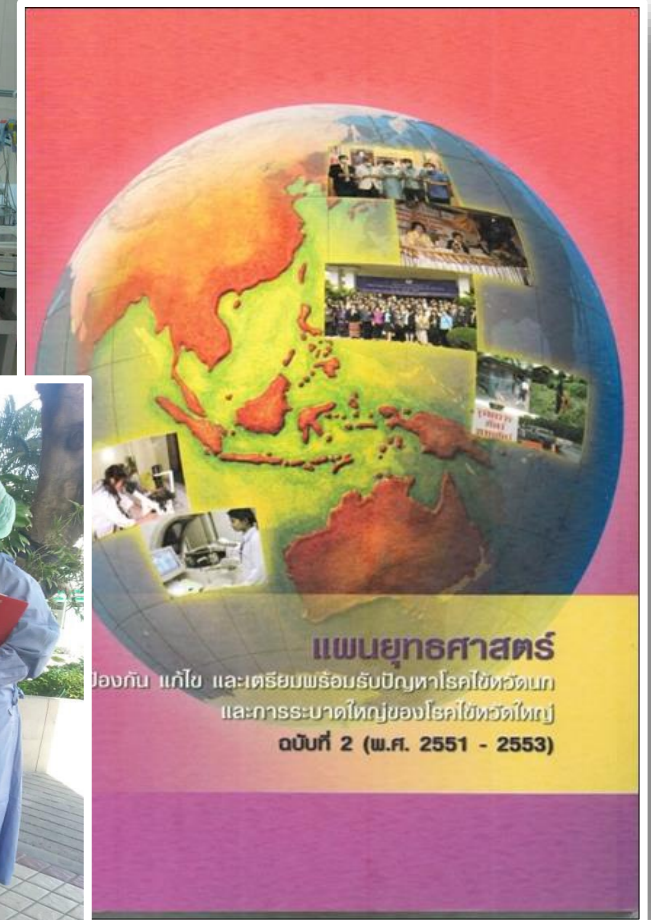
- Influenza vaccine manufacture project approved
- R&D for pandemic vaccine supported under WHO GAP (started with H1N1, H5N1)
- National influenza immunization program initiated



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# Major capacities built in preparedness & response to pandemic influenza H1N1 2009 (2)

- Hospital IC expanded countrywide, an isolation room in all public hospitals
- National Committee on AI & PIP maintained, later modified to National EID Com,
- National Plan on AI & PIP revised, modified to National EID Plan
- Simulation exercise maintained and supported by DDPM/MOI, BCP planning encouraged

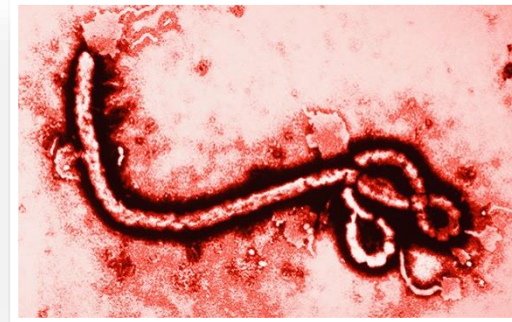




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# Major capacities built in preparedness to Ebola (1)

- Surveillance network strengthened
  - Traveler surveillance at POE
  - Detection at health facility
  - Community participation
- DAR established in main med. centers set for handling lab specimens of suspect Ebola
- Laboratory networking to fasten and expand detection of Ebola



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## Major capacities built in preparedness to Ebola (2)

- National committee reactivated to oversee Ebola risk management
- Multisectoral cooperation extended, roles of armed forces and local admin. enhanced in preparedness planning for Ebola introduction and outbreak
- R&D on Ebola initiated (Siriraj research team)

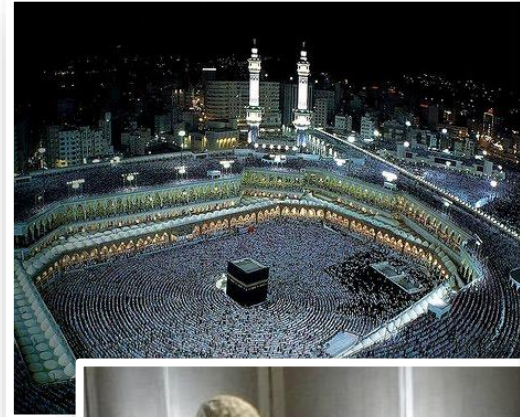




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# Major capacities built in preparedness and response to MERS

- Hospital IC capacity assessed and maintained
- Surveillance
  - SRRT trained to closely monitor Hajj pilgrims & travelers from ME
  - Lab networking established for MERS testing
- National committee and cabinet kept informed on Ebola prep and response
- Simulation exercise conducted annually in high risk provinces



# Emergency Operation Center (EOC)





# Transboundary & international cooperation (1)



- **Cross-border cooperation**  
Committees and JAP
  - Cambodia-Thailand
  - Lao PDR-Thailand
  - Myanmar-Thailand
  - Malaysia-Thailand
- **Bilateral cooperation in health**
  - Thai MOPH-US CDC
  - Japan-Thailand
  - Canada –Thailand
  - Thailand-UK
  - Etc.

# Transboundary & international cooperation (2)



## Regional forums

- ASEAN (plus)
  - AEGCD – Coop. on Com Dis Control
  - AWGPPR – Coop. on pandemic preparedness
  - FETN – Epidemiology training
  - Proposed regional vaccine security initiative
  - Other
- ACMEC
- ADMER, AHA center
- BIMST
- MBDS – surveillance info exchange
- Etc.



# AN Plus Three Health Ministers' Statement on Ebola Preparedness and Response

ព្រឹត្តិបត្រ  
ព្រឹត្តិបត្រ  
ព្រឹត្តិបត្រ

15 December 2014 , Bangkok, Thailand



# Key challenges

- **National-level management**
  - Manpower capacity
  - Multi-sectoral cooperation
- **Regional & international cooperation**
  - Synchronization & integration of efforts
  - Resource support



# Way forward

- **Accelerate implementation of DRM plan in observation of the Sendai and related global frameworks**
- **Ensure manpower capacity**
- **Extend and maintain multi-sector cooperation and community participation**
- **Enhance bilateral, regional and international cooperation**
- **Seek more cooperation and support of international partners**



**Thank you  
Cam-On  
ขอบคุณ  
ขอบคุณ**