

## Experiences in crisis and emergency situations activities in current flood situation in Thailand

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### Thailand's flooding 2011

Time: 25 July – now

Flooded area: 30 provinces  
(central part)

Affected people: ~ 5 million

Death: ~ 560 people



## Environmental Health problems

At household in flooded areas:

- Garbage and waste management
- Solid waste management
- Safe drinking water
- Food safety
- Personal hygiene



## Environmental Health response and functions (DOH)

1. Immediate phase
  - assess the situation
  - contact key EH personnel
  - develop EH response team and action plan
  - establish communication with EH agencies and public
2. Intermediate phase
  - set up risk communication activities
  - collaborate with state and local government for activities and assistance
  - address request for assistance and information

## Environmental Health response and functions (DOH)

### 3. Recovery phase

- assess the situation
- follow up EH activities
- health education and public relation
- set up monitoring system

## Responses and activities (DOH)

### 1. Special response teams (SRT)

### 2. Test kits for monitoring system

### 3. Public information

- Target areas:**
- household
  - evacuation center



## Special response team (SRT)

- Advice on good sanitation practices at household and evacuation centers
- Survey on environmental situation at evacuation center ( e.g. toilets, garbage bin, cleanliness, food & water safety)
- Monitor safety of food and water supplies at evacuation center



## At household

### Supplies

1. Mr. Clean package:
  - Garbage bags
  - Defecation bags
  - Chlorine solution
  - Alcohol gel
  - Detergent
  - Soap
  - Effective microorganisms (EM)



## At household

2. Ready-to-eat food (central kitchen)
3. Bottled water (donation)
4. Alum and chlorine (water treatment)



## Evacuation centers

Total: 1,734 centers (for 900,000 p.)

Bangkok: 186 (for 60,000 p.)

Other provinces: 1,548 (for 760,000 p.)



## Sanitation facilities at evacuation centers



## Activities at evacuation centers



## Test kits for food and water safety



Coliform bacteria in drinking water



Residual chlorine in water



Coliform bacteria in ready-to-eat food

## Public information for hygienic practices

Mass media: radio, Newspaper, TV, interviewing



## Support from domestic and International agencies

Domestic :

Private agencies: Funding, foods, water, others

International:

WHO & UNICEF: - Medical supplies

- Garbage bags

- Soaps (liquid & bar)

- Alcohol gel

- Shower cream

China: water filtration



## Lesson learned

- Preparation & public education
- Risk communication management
- Crisis management
- Collaboration between public, private and government agencies



*Thank you*



## Sanitation supplies

- Mr. Clean package
- Alum & chlorine
- Apron & hair net,  
plastic gloves
- Detergent & soap
- Facial mask

