

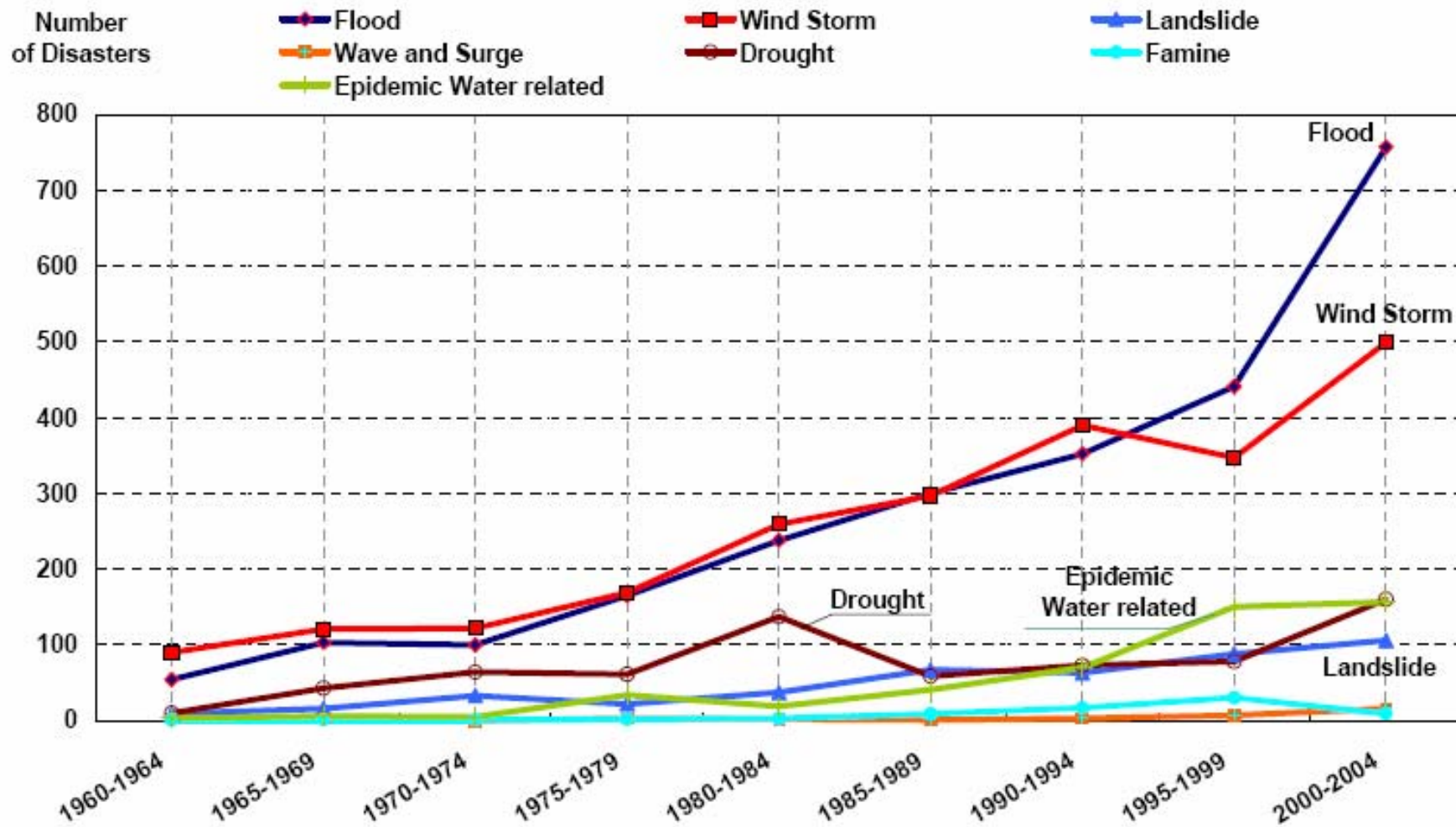
OUT LINE OF FLOOD HAZARD MAPPING TRAINING COURSE AND ITS FOLLOW-UP ACTIVITIES



International Centre for Water Hazard & Risk Management ICHARM
Public Work Research Institute, Tsukuba, Japan

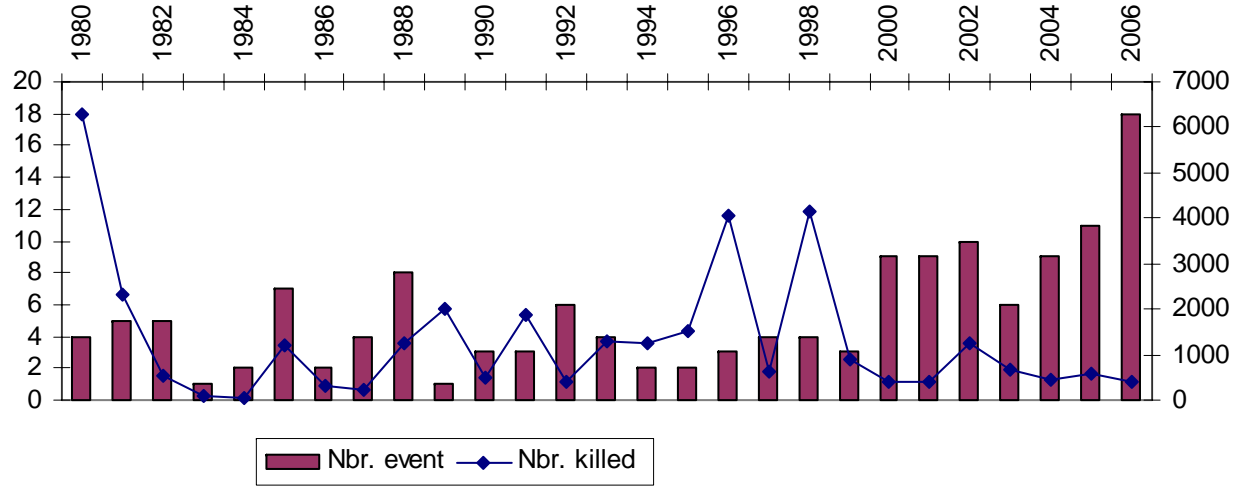
Regional Seminar on Flood Hazard Mapping, Kuala Lumpur Malaysia, 7-9 February, 2007

Trend of Natural Disasters

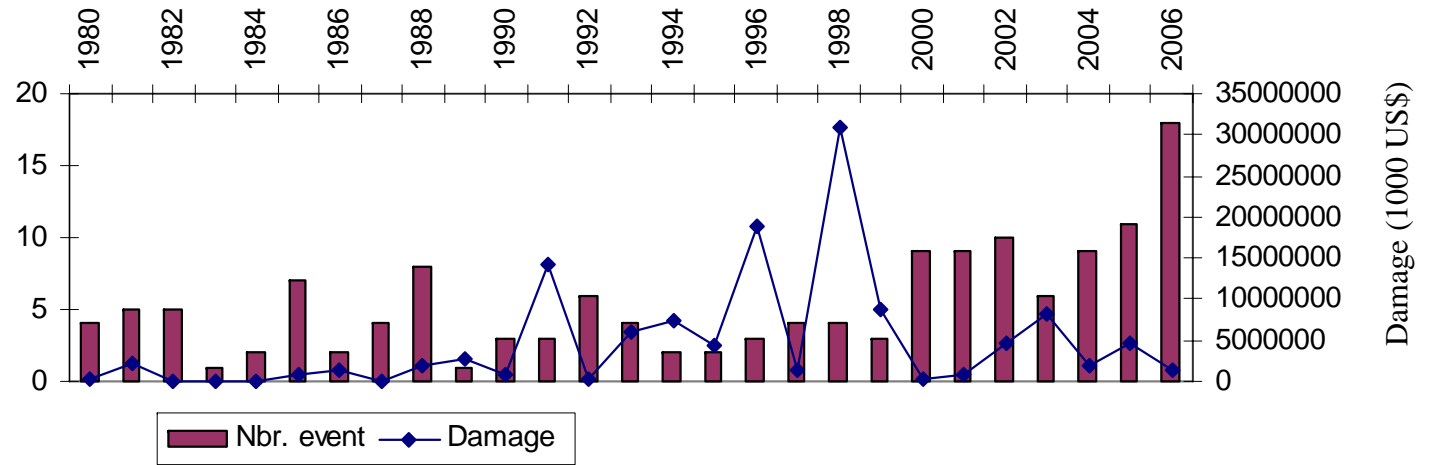


Source: PWRI

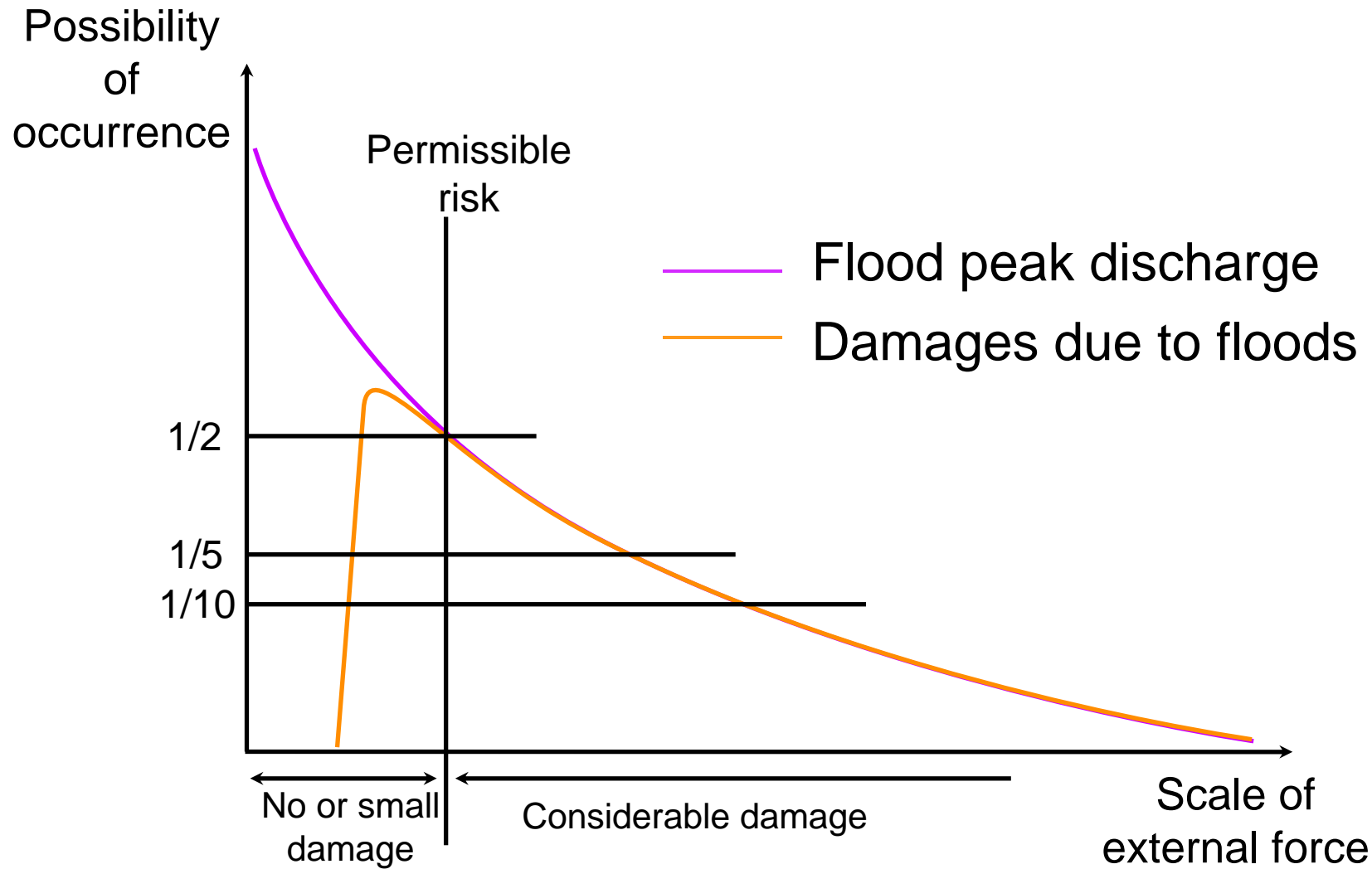
China Flood (1980-2006 per year: EMDAT)



China Flood (1980-2006 per year: EMDAT)

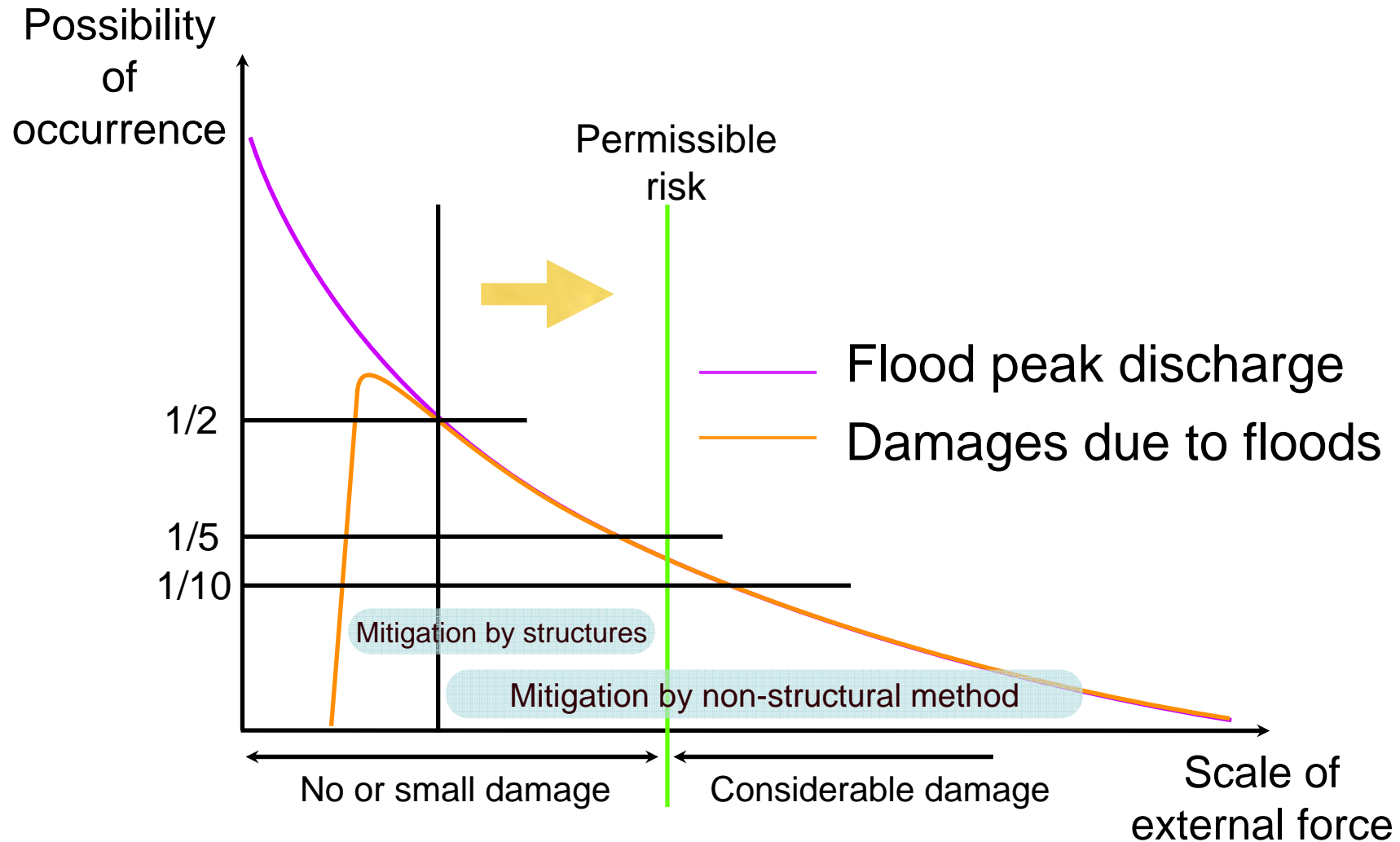


Necessity & Importance of FHM



Relationship between scale of external force and disasters
(without structural measures)

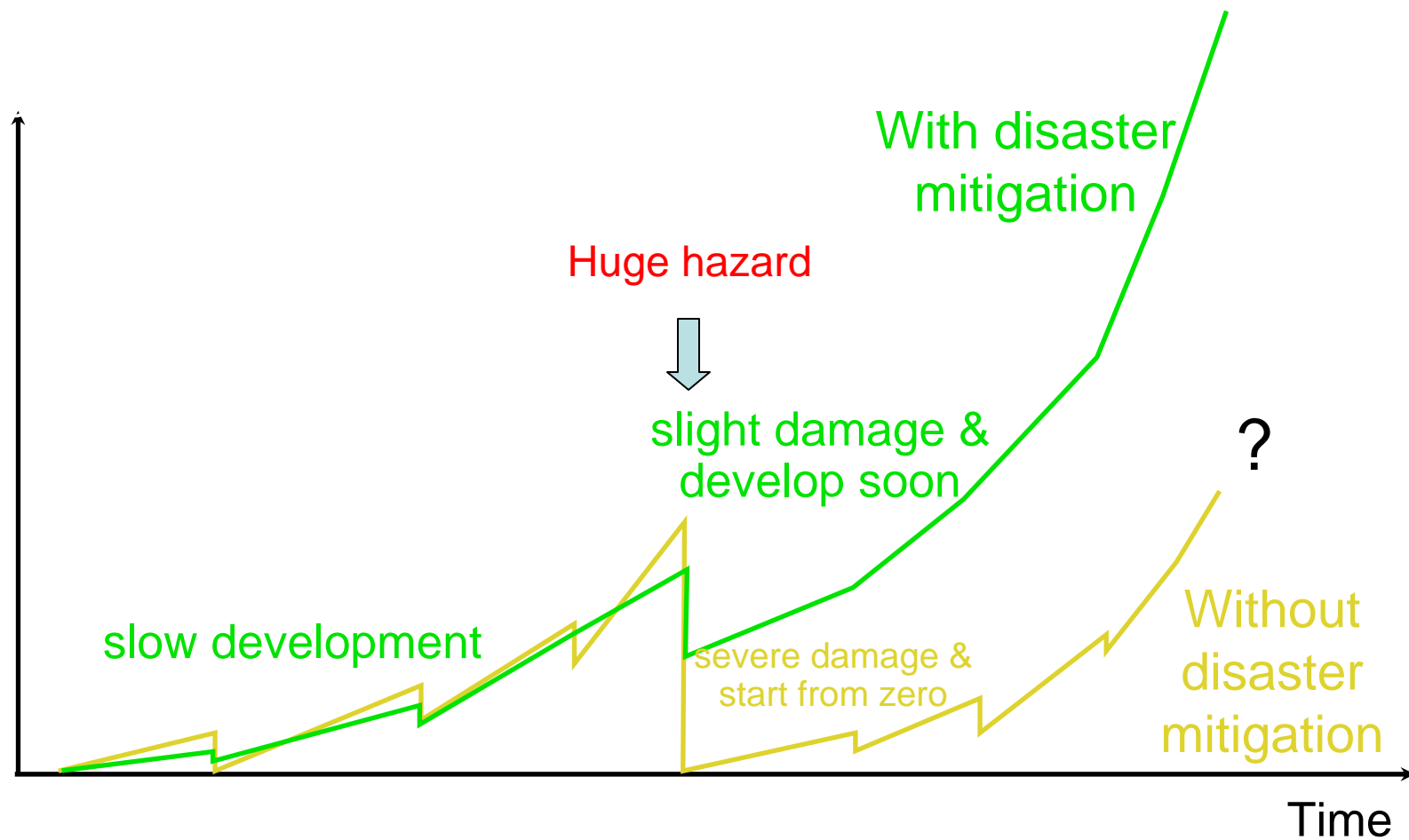
Necessity & Importance of FHM



Relationship between scale of external force and disasters
(with structural measures)

Which is sustainable?

Development with / without Disaster Mitigation



What is Business Continuity Management?

☞ Synergetic Activities around FHM Training Course



Outline of the FHM Training Course

Course title:

"Flood Hazard Mapping"

Program period:

2004-2008 (5 years)

Organiser:

Japan International Cooperation Agency (JICA)
Public Works Research Institute (PWRI)

Venue:

PWRI, Tsukuba City, Japan

Conducted by:

International Centre for Water Hazard and Risk
Management ICHARM

Summary of Training Courses (04 & 05)

Duration: 2004

Jan 31st - Feb 18th , 2005 : 3 weeks

Participants:

16 (two participants each from 8 countries; Indonesia, Malaysia, Cambodia, Thailand, the Philippines, Lao PDR, China and Vietnam)

Curriculum:

1st week: Lectures and exercises on

**Flood Hazard Mapping,
Rain-fall runoff analysis,
Hydrological analysis,
Inundation analysis**

**2nd week: “Town Watching
(on-site training)”**

**3rd week: Field trips to examine uses of
FHM**s

**Proposal of ‘Action plan’
from each participant**

Duration: 2005

Nov 7th - Dec 2nd , 2005: 4 weeks

Participants:

16 (from 8 countries; Indonesia, Malaysia, Cambodia, Thailand, the Philippines, Lao PDR, China and Vietnam)

Curriculum:

**1st week: Lectures and exercises on
flood hazard mapping**

2nd week:

**Rainfall runoff analysis,
Hydrological analysis,
Inundation analysis,
GIS**

3rd week: Field trips to examine uses of FHMs,
“Town Watching (on-site training)”

**4th week: Proposal of ‘Action plan’
from each participant**



Summary of Training Courses (06)



Duration: 2006

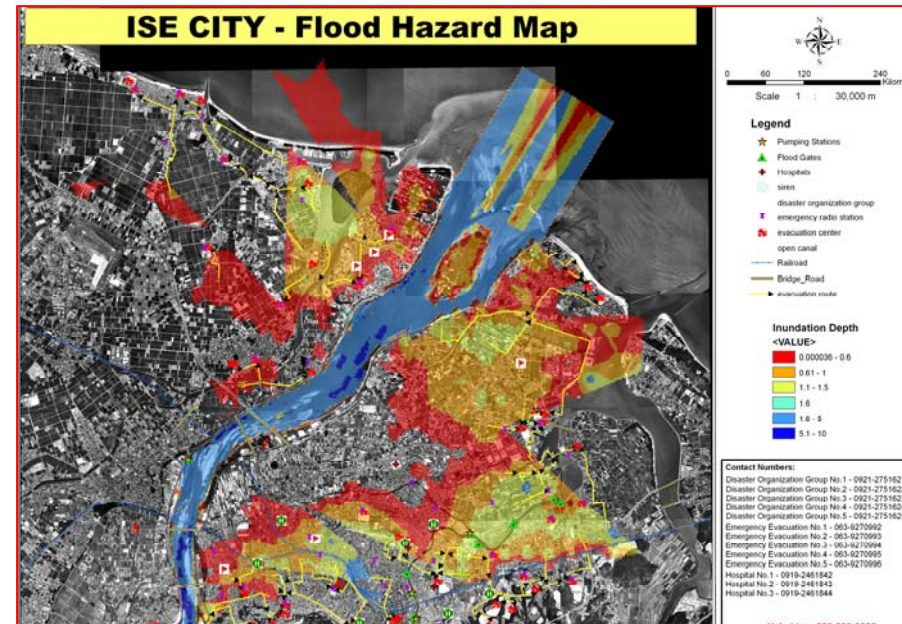
Oct. 30 – Dec. 01, 2006 : 5 weeks

Participants:

16 (two participants each from 8 countries; Indonesia, Malaysia, Cambodia, Thailand, the Philippines, Lao PDR, China and Vietnam)

Curriculum:

- 1st-2nd week: Lectures and exercises on
Flood Hazard Mapping,
Rain-fall Runoff analysis,
Hydrological analysis/modeling,
Inundation analysis/FHM
- 3-4 week: “Town Watching
(on-site training)”
- 4-5 week: **FHM practice & Comparison**
Proposal of ‘Action plan’
from each participant



Example out-come of the seminar



👉 Networking & Follow-Up Activities

Why this seminar?

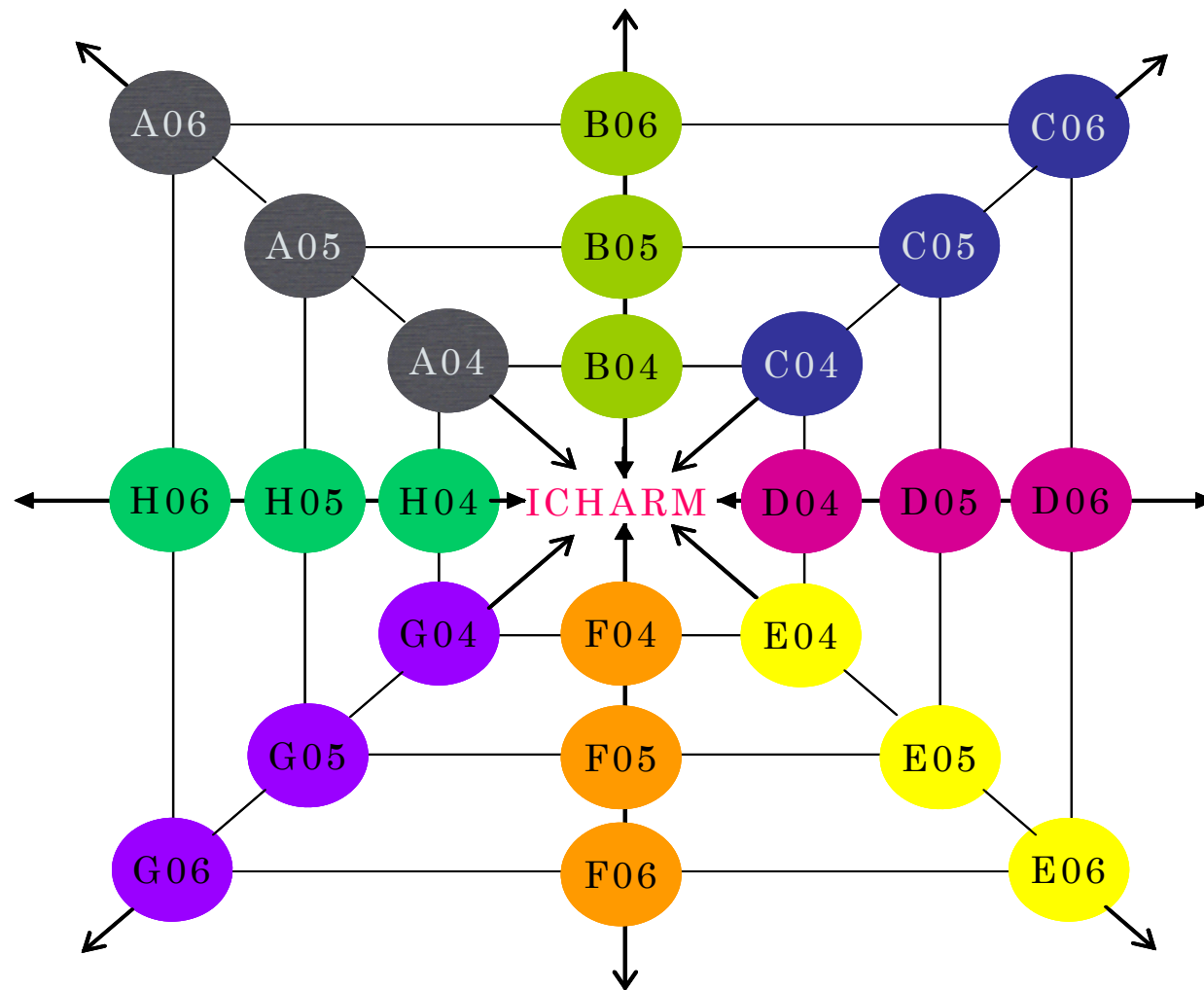
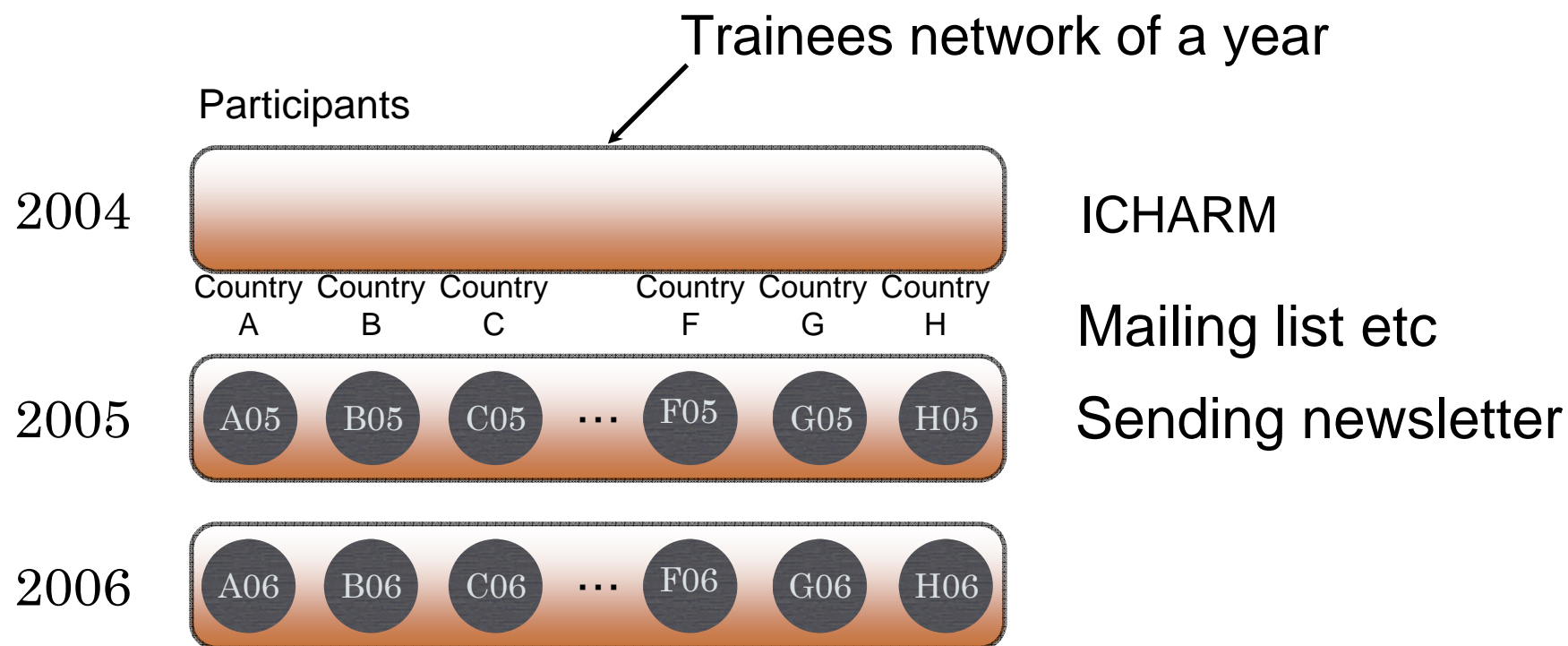


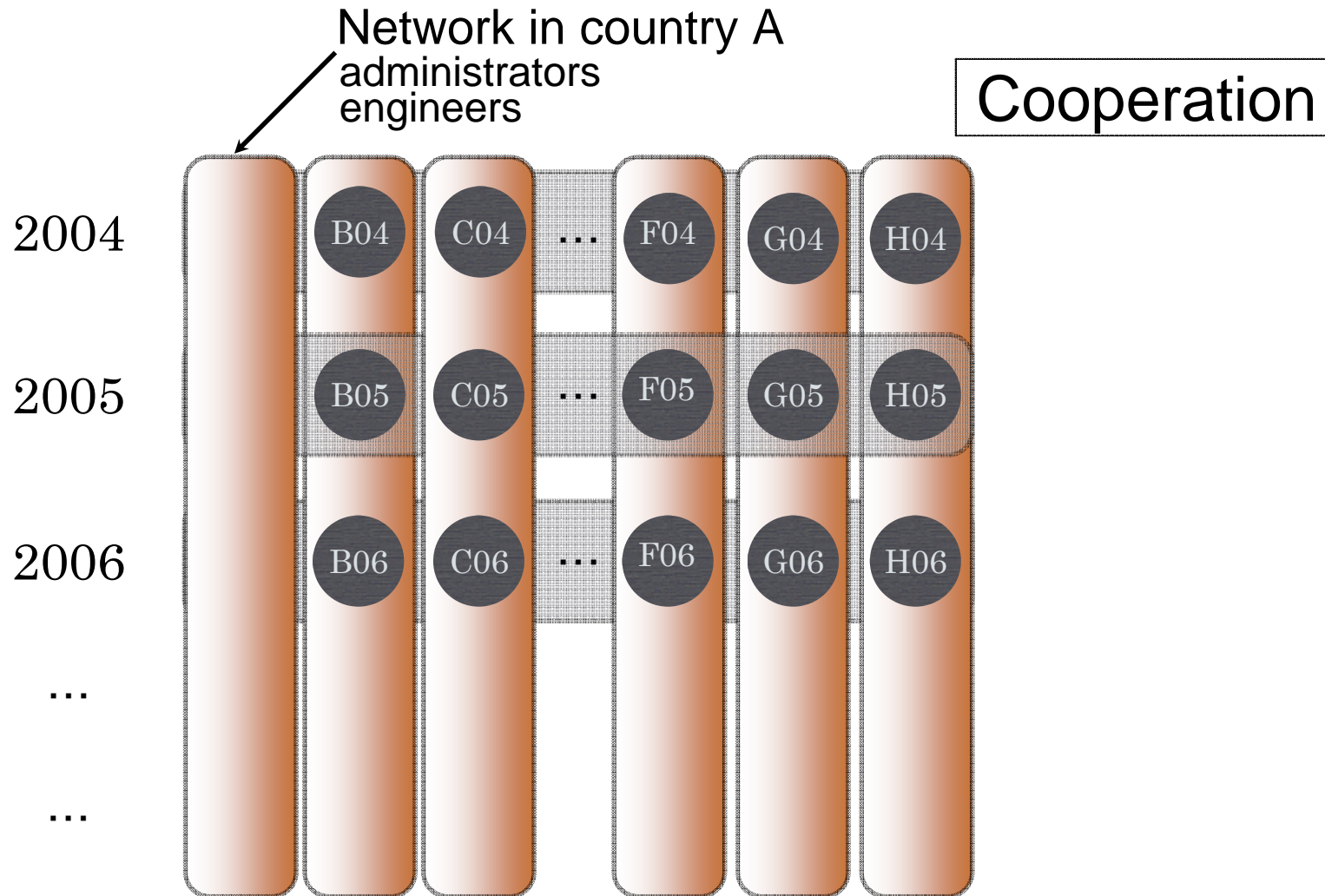
Figure 1. Annual participants from 8 countries and expected networking among them.

👉 Networking Activities

How does it work?

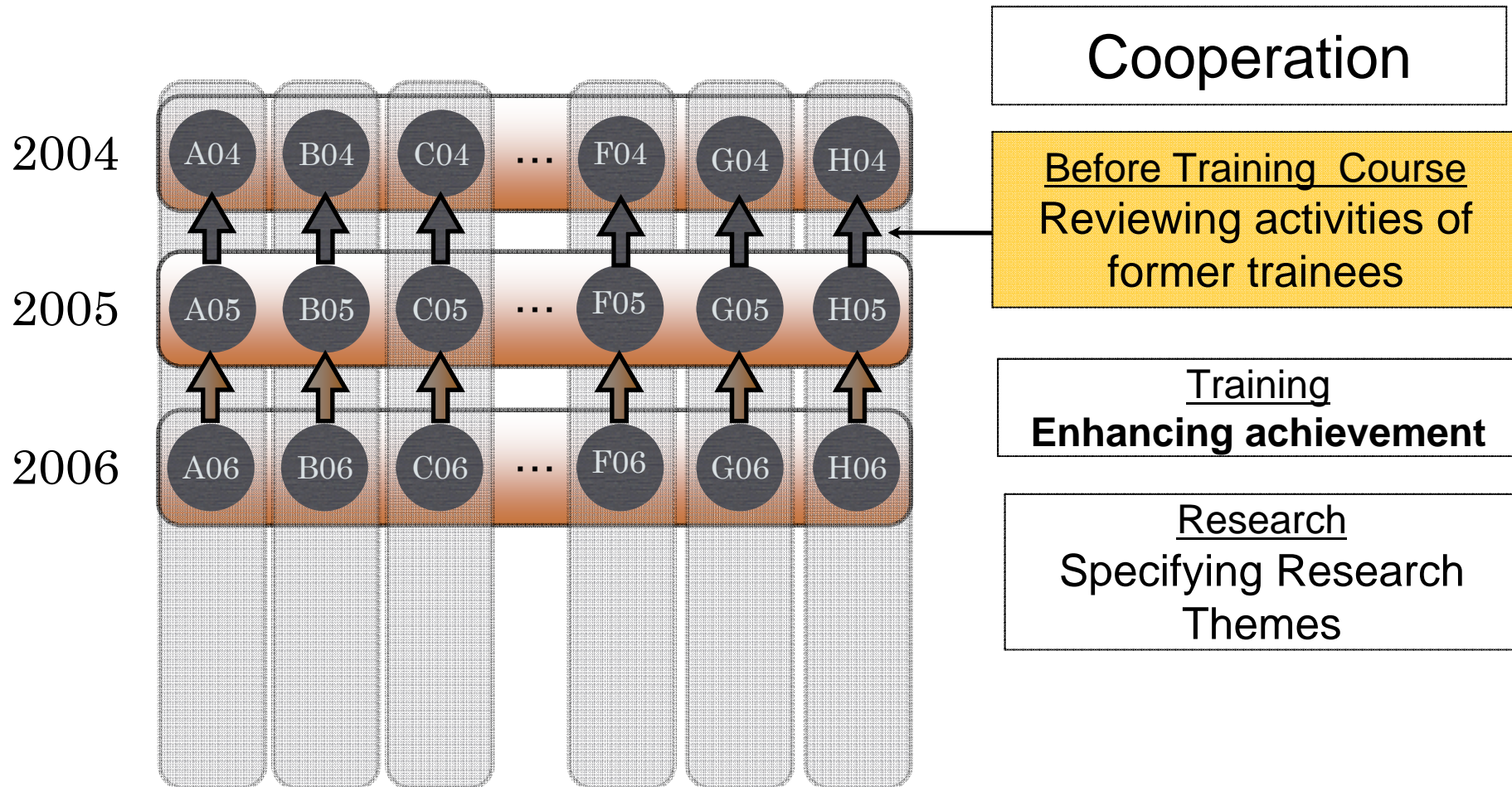


👉 Networking Activities
How does it work?



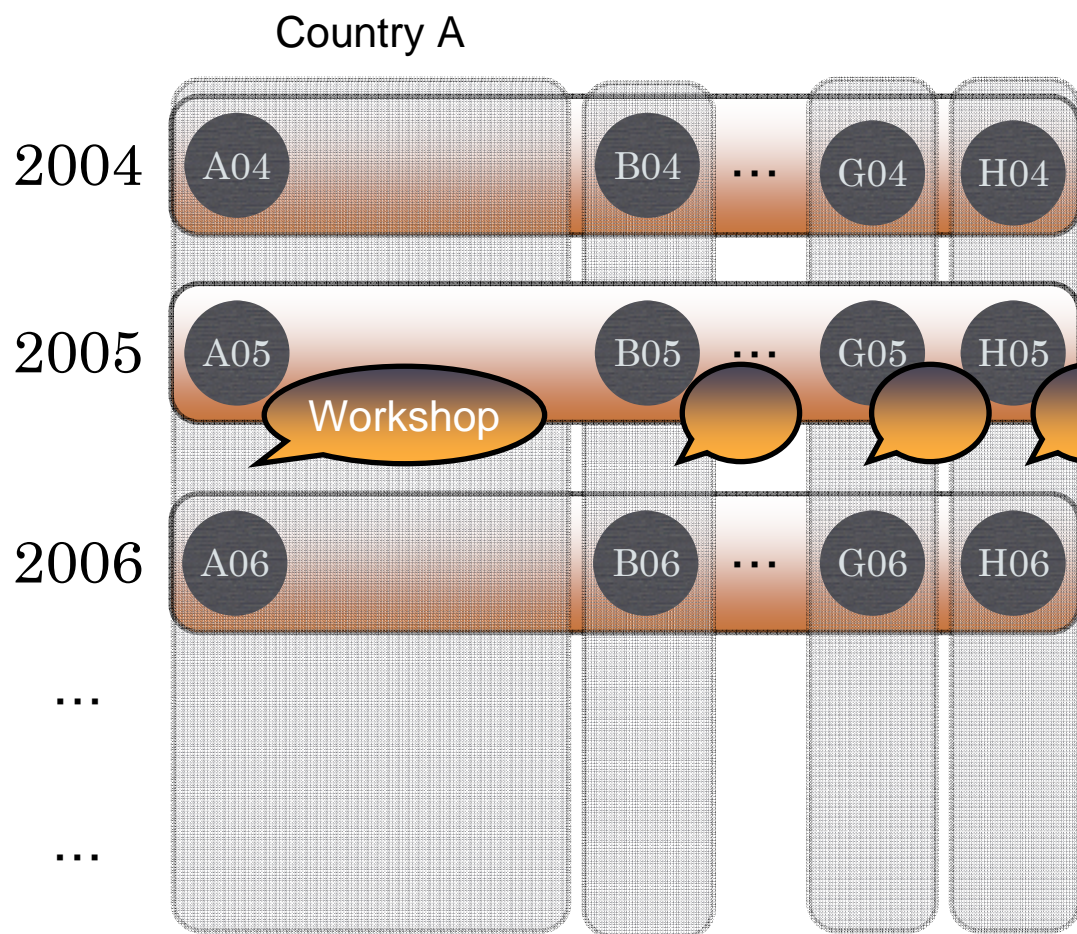
👉 Networking & Internal Cooperation

How to perform?



👉 Networking & Follow-Up Activities

How does it work?



Cooperation

After coming back his/her office
FHM training Workshop in
Each Office/Country

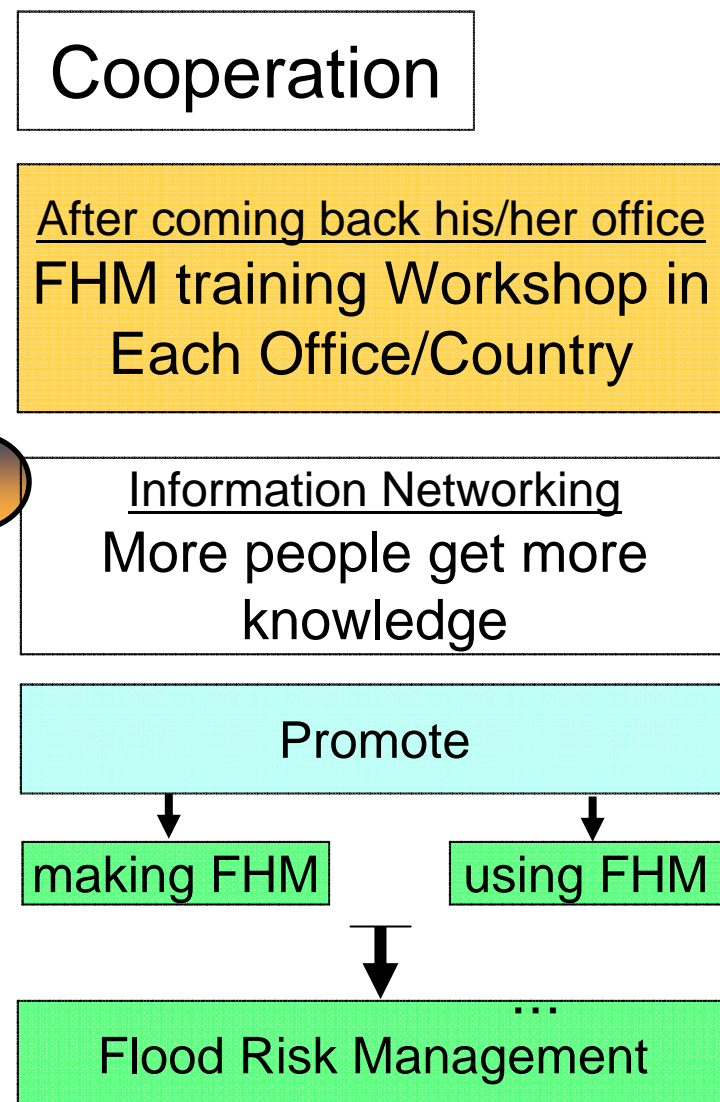
Information Networking
More people get more
knowledge

Promote

making FHM

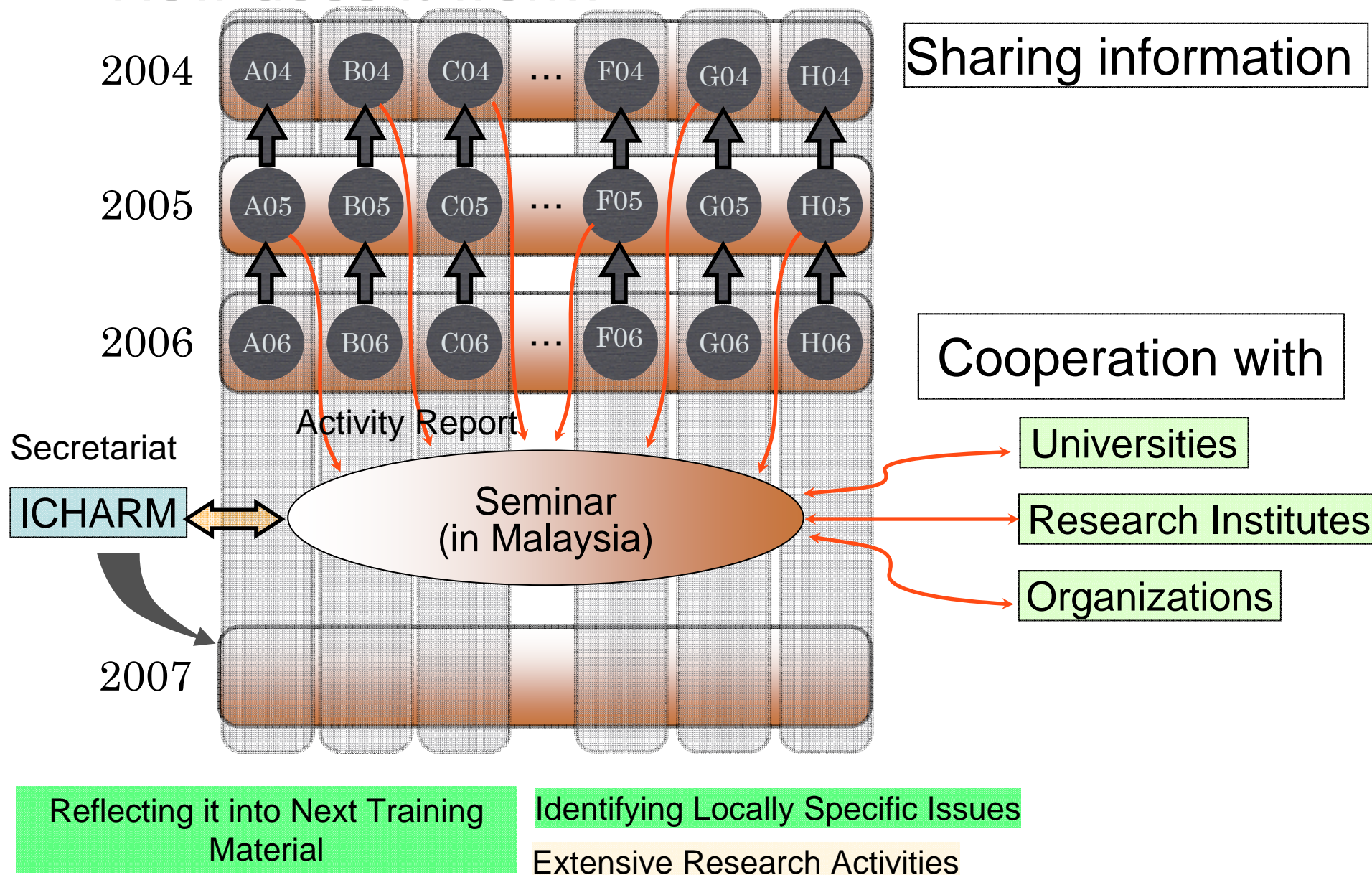
using FHM

Flood Risk Management

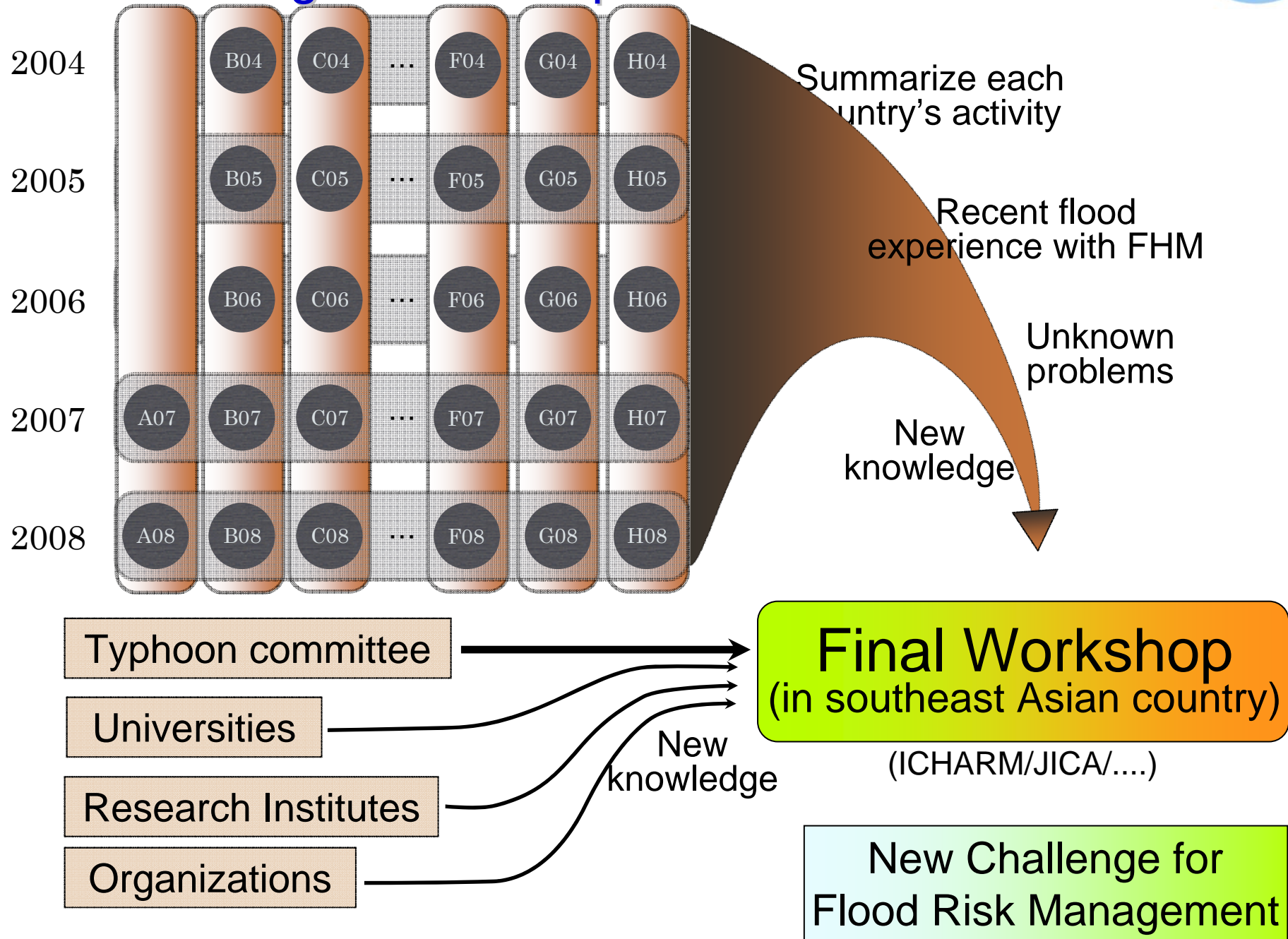


Networking & Follow-Up Activities

How does it work?



Networking & Follow-Up Activities

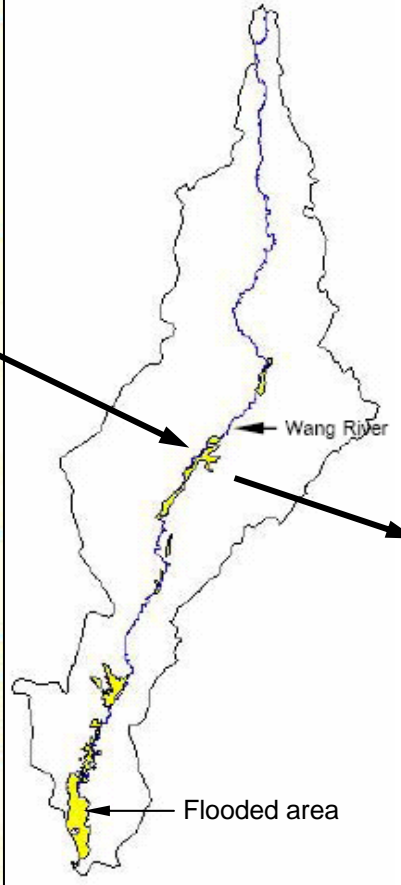


Progress (Example from Thailand)

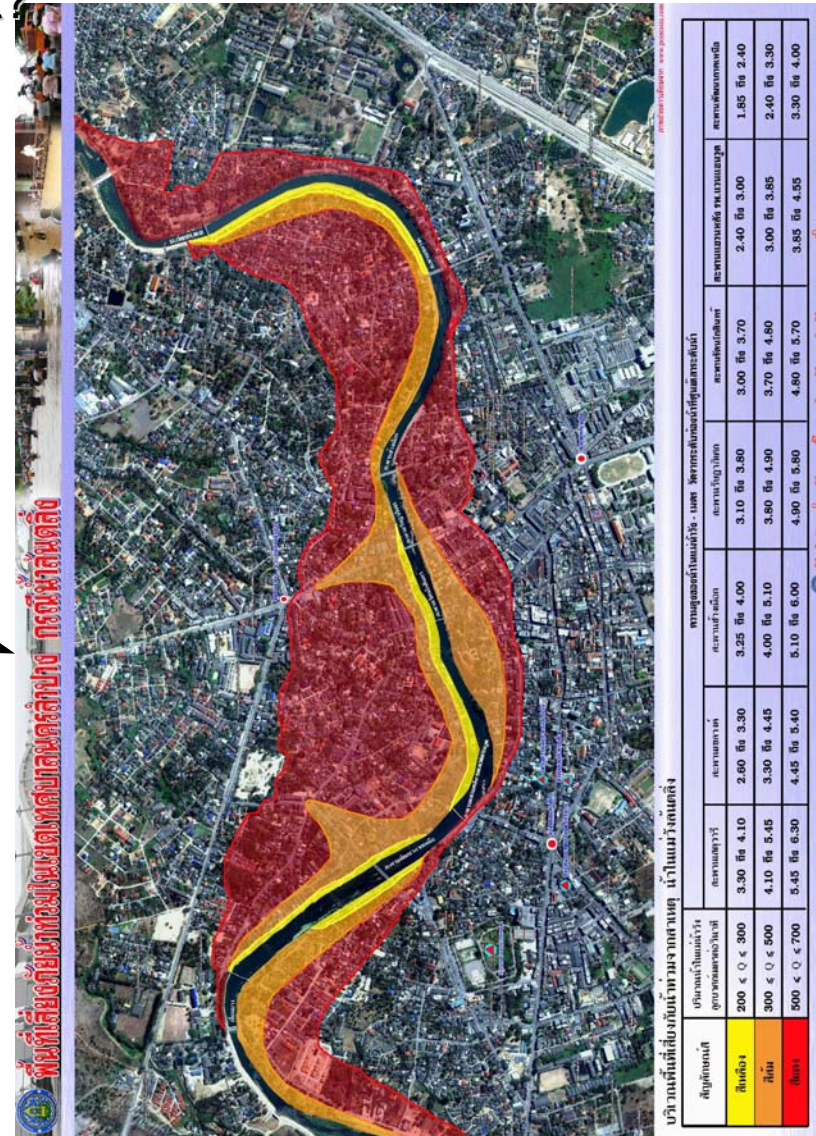
How to get support for your specific project?



Chao Phraya River Basin in Thailand



Wang River Basin (10791 KM²)

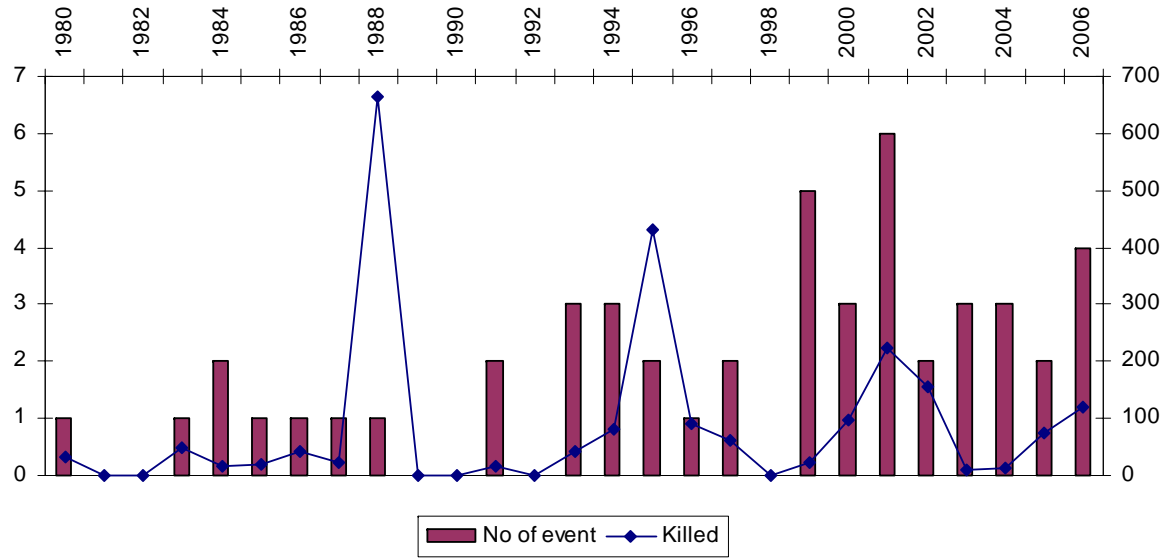


Lampang Municipality FHM

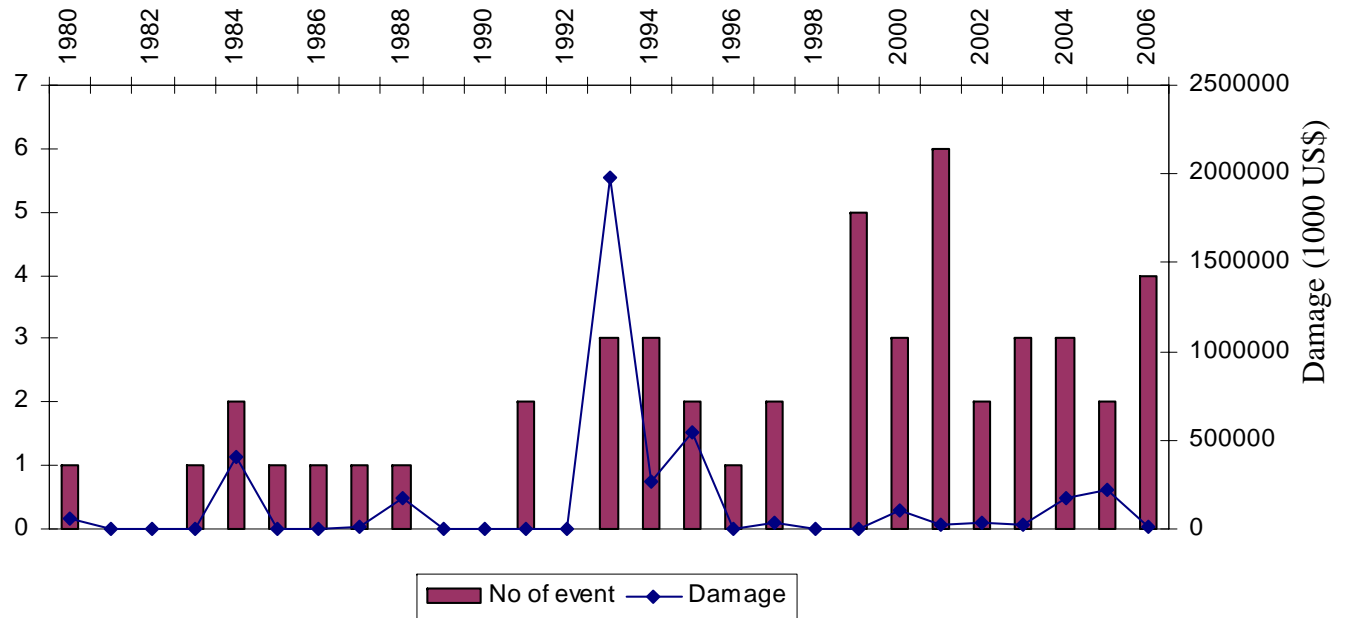
Under consideration for Implementation !

THANK YOU!

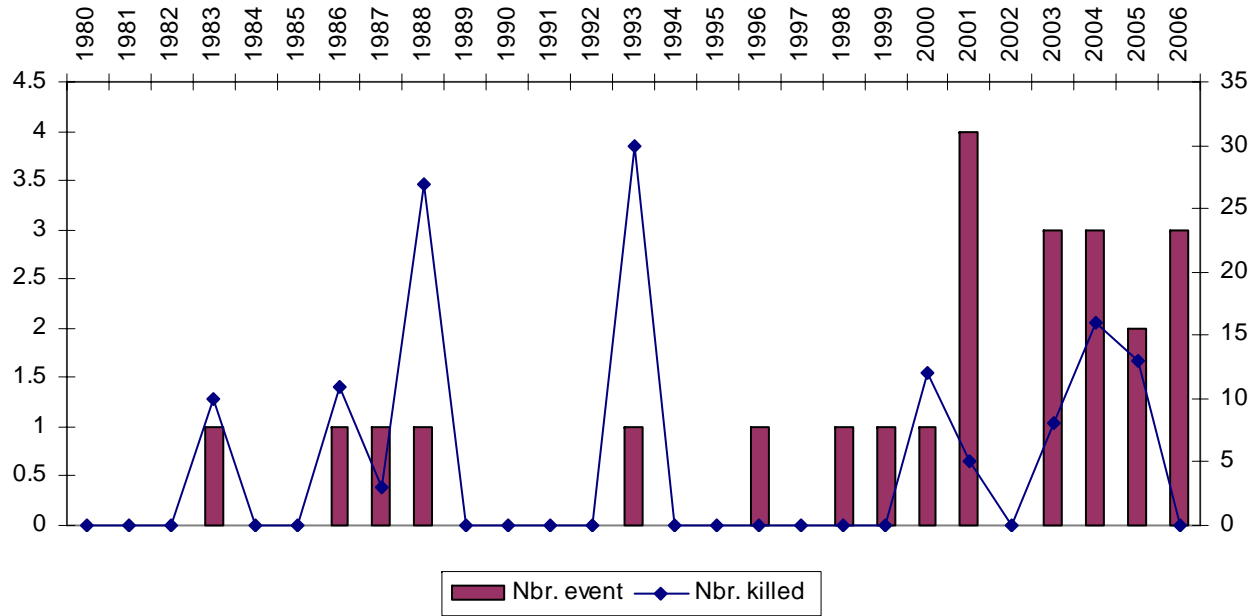
Thailand Flood (1980-2006 per year: EMDAT)



Thailand Flood (1980-2006 per year: EMDAT)

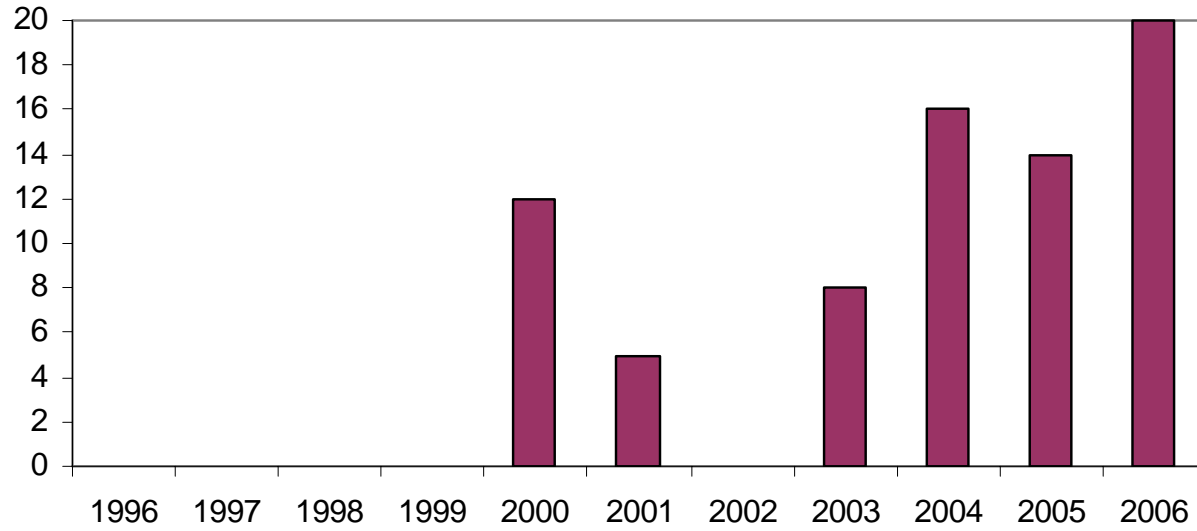


Malaysia Flood (1980-2006 per year: EMDAT)



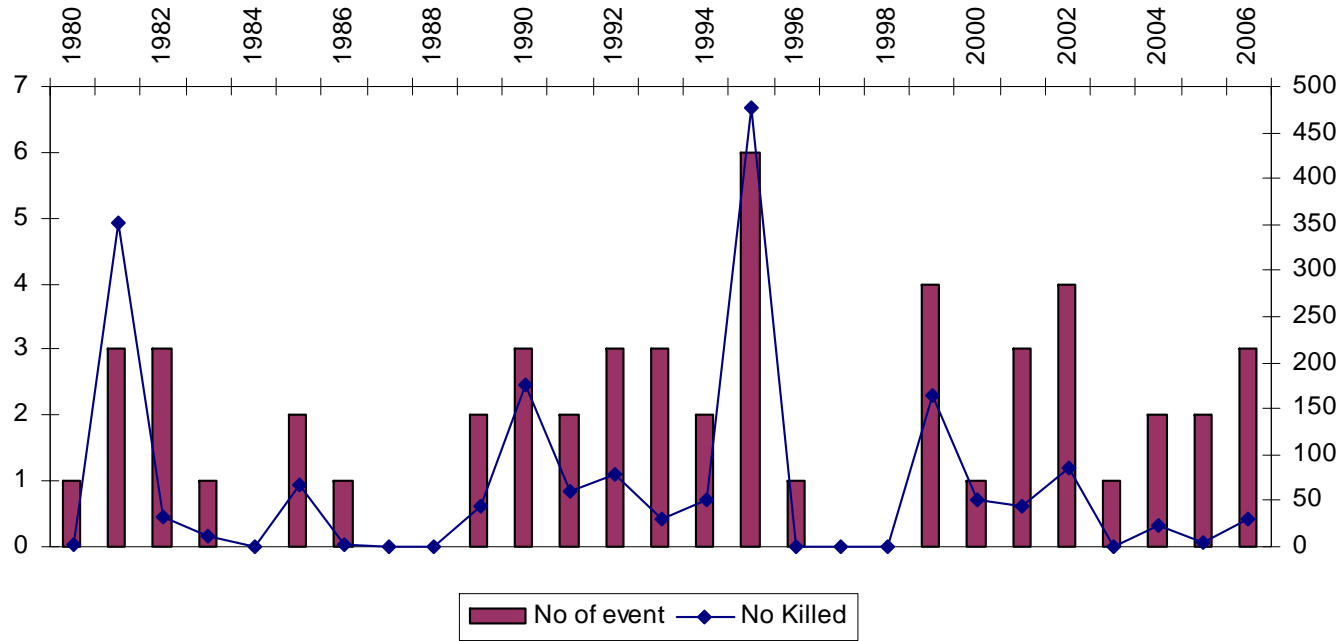
?

Number of deaths due to Flood in Malaysia

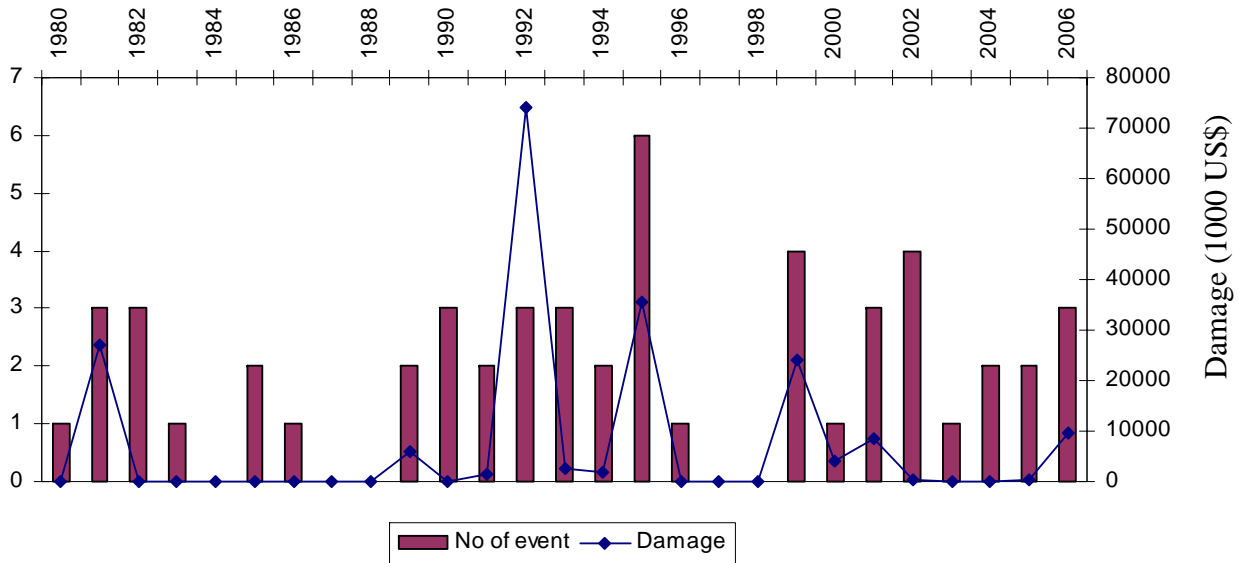


Source: ex-Trainees 2006

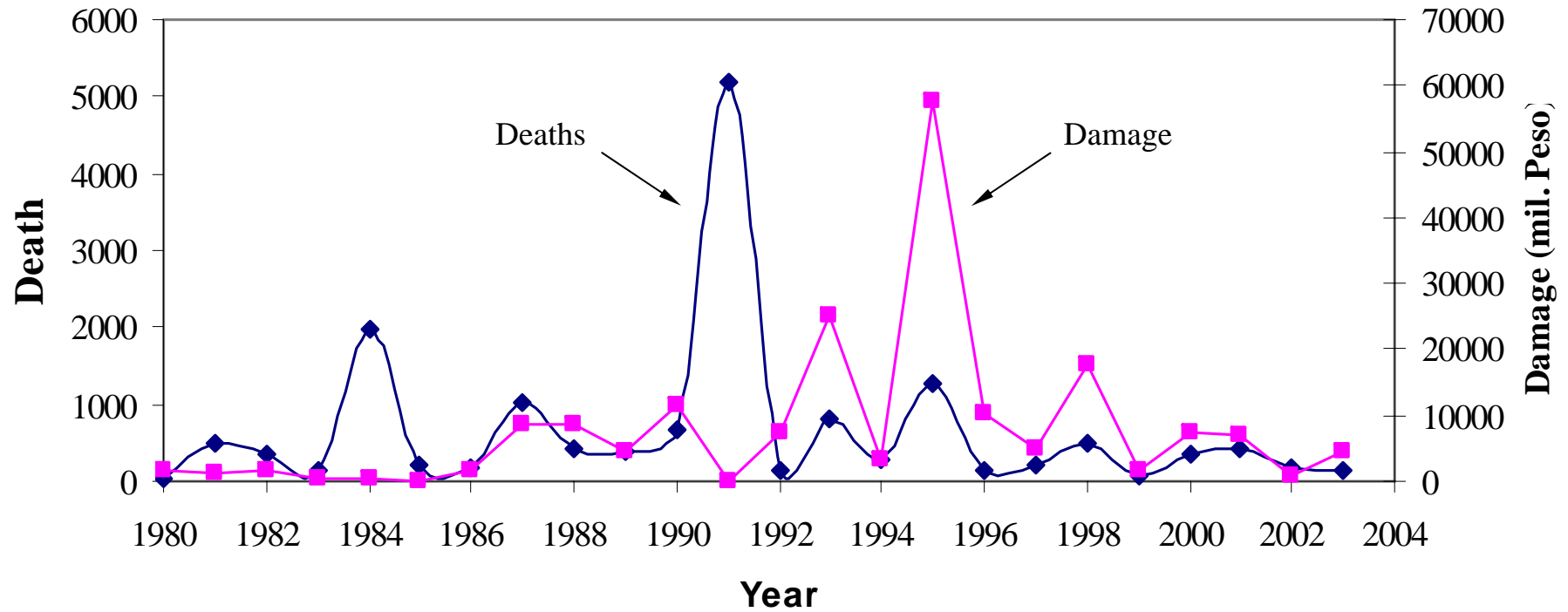
Philippines Flood (1980-2006 per year: EMDAT)



Philippines Flood (1980-2006 per year: EMDAT)



Philippines Flood Disaster Deaths & Damage (1980-2003)



Data Source: ex-participants (2006)