



# Flood Management and Mitigation Programme (FMMP) and its Early Warning System Project

**Presented at Final Seminar of the ISLAND Project**

**14<sup>th</sup> - 16<sup>th</sup> May, MICA Center, Hanoi**

- Maintain flood tool, data and knowledge
- Produce accurate regional forecast and timely and effective dissemination

**C1  
Regional  
FMM Center**

To strengthen the national capacity in more effective land management by using reliable flood-related information

**C5  
Land  
Management**



**Measures**

- Reduce the vulnerability of people to the negative impacts of floods
- Establish management capacity for development and refinement of implementation plan

**Proofing**

**C3  
Trans-boundary  
mediation**

**C4  
Flood Emergency  
Management  
Strengthening**

To strengthen the national capacity of flood emergency management by providing a series of the training courses

...ing and economic losses due to floods are prevented, minimised, or mitigated while preserving the environmental benefits of floods.

... issues of non-compliance in trans-boundary flood management



## KEY OUTPUTS OF FMMP

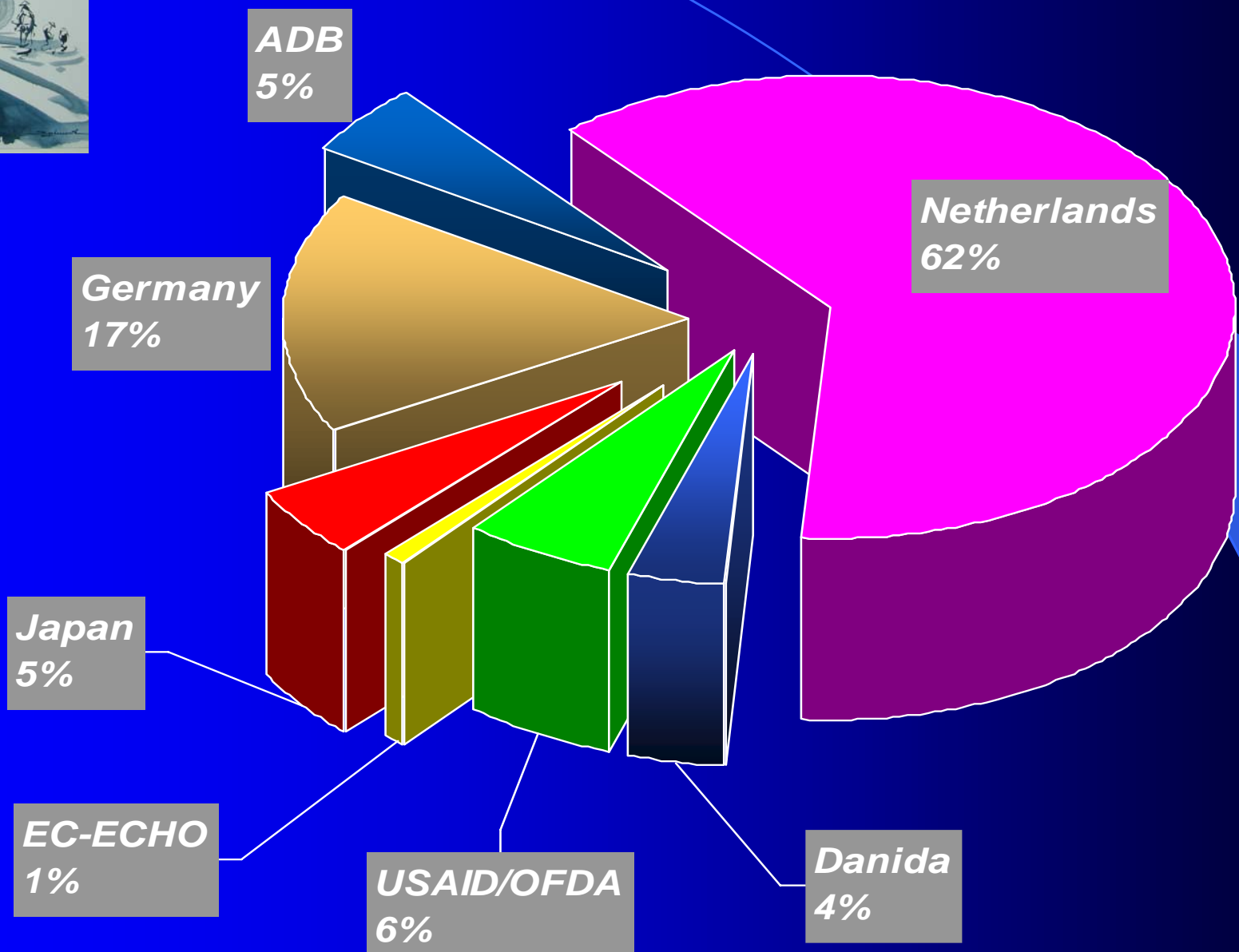
Medium & long term flood forecast

Flood information data

Technical standards

Training packages

# Donor's Contributions





*Flood Early*

*system*

*In Cambodia*

*Timeframe: 2003 - 2007*



**DONOR**



**EXECUTING ORGANIZATION**



**IMPLEMENTING ORGANIZATIONS**



**LOCAL COUNTERPARTS**



**NCDM**

**CRC**

**DHRW**



**GOAL :**

**Through improved flood warnings, vulnerable communities will reduce their risk to higher-than-normal annual floods.**

***SPECIFIC OBJECTIVES:***

1. Develop useful and understandable MRC flood information, which are responsive to the needs of, and promptly conveyed to the most flood-vulnerable communities.
2. Develop tools, methods and protocols, with the help of community-based implementing partners, to enable flood-vulnerable populations to effectively respond to MRC-prepared flood information.



# Major Accomplishments



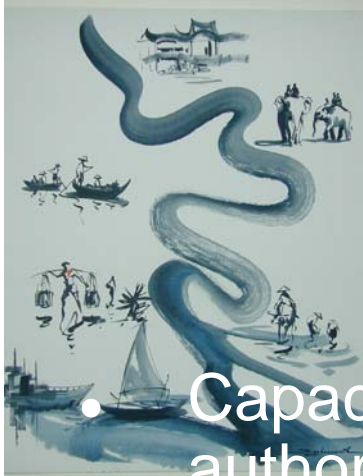
## Implementation:

- Understandable, applicable tools and methods is available at communities (40 billboards, 142 flood markers, 40 flood emergency response boards)
- Target areas identified (40 villages, 14 Communes, 6 districts & 5 provinces)
- 78 RCVs selected for performing project activities
- 127 project support committee members (PSCs) selected



# Major Accomplishments

(Cont)



- Capacity of local authorities/stakeholders/communities on flood preparedness and flood early warning & dissemination is enhanced.
- The population understands and has confidence on Flood forecasts.
- The population is more involved in the EWS activities i.e. 68% of people are willing to contribute money and their labor to maintain the flood references (source: end-line survey report)
- Actively support from local authority in the EWS project activity



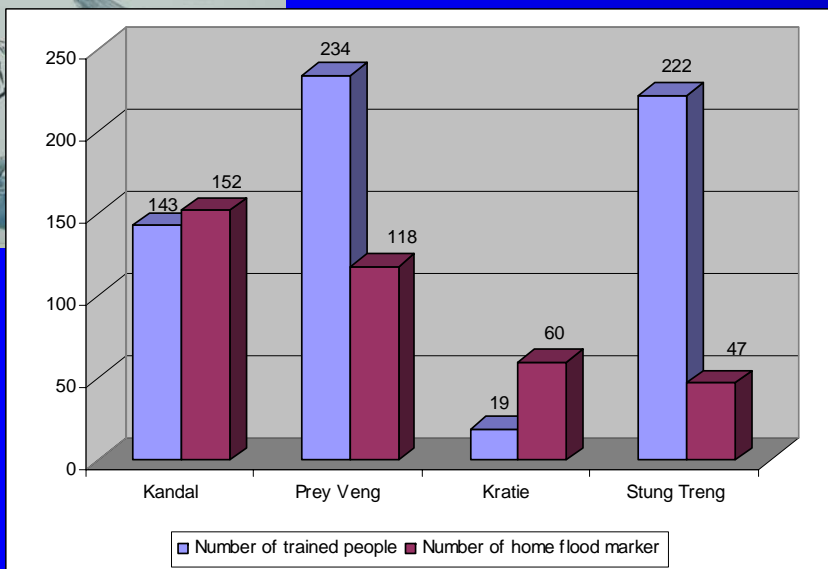
# Major Accomplishments

(Cont)

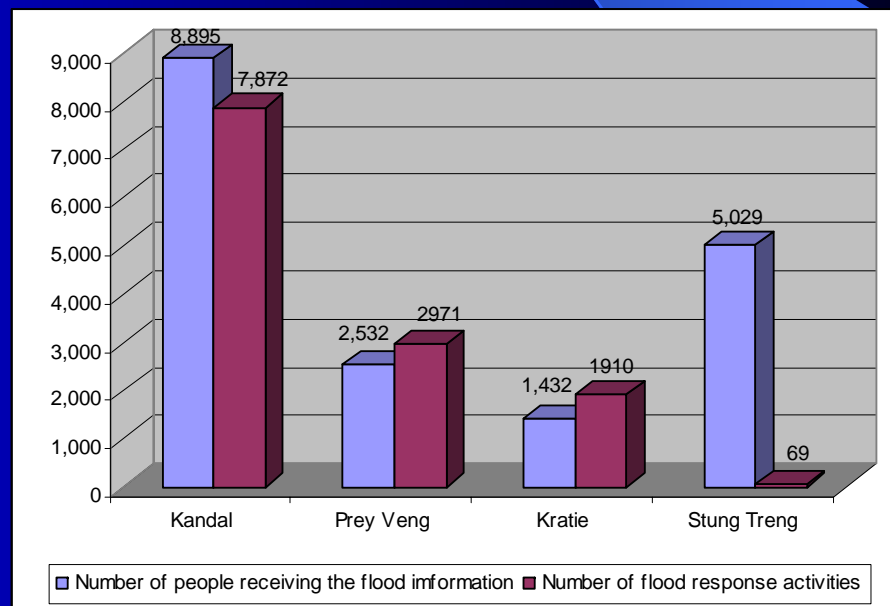
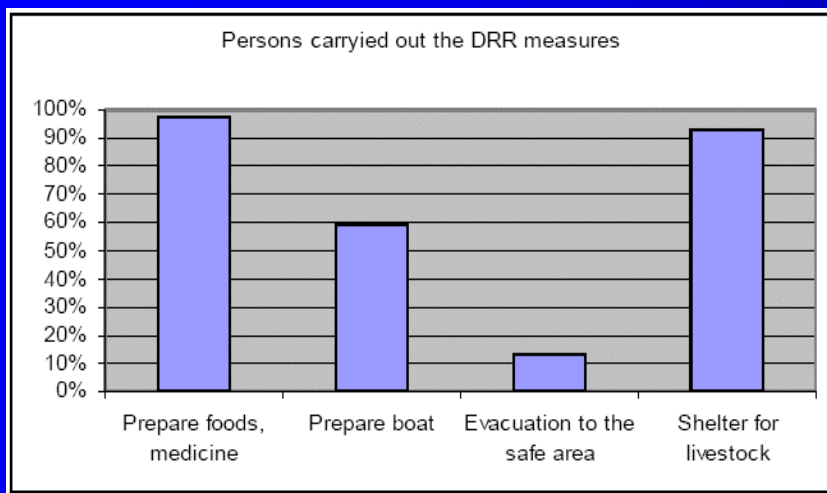
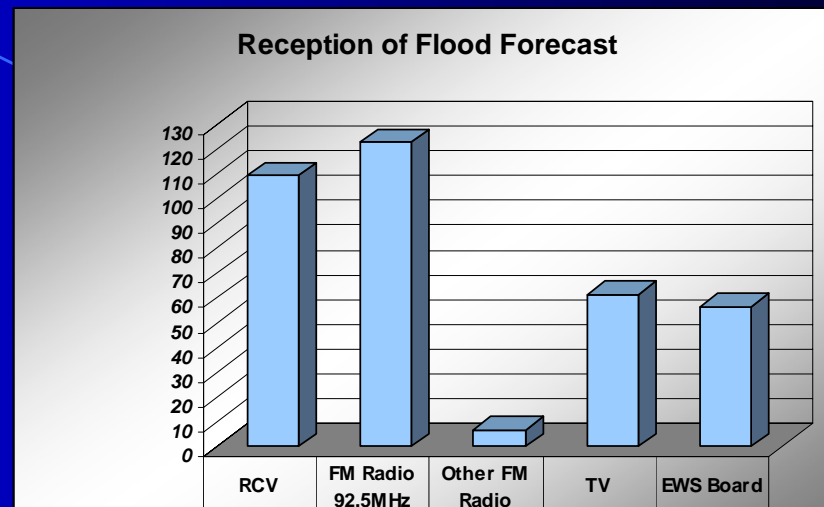


- EWS reinforced the communication and cooperation among RCVs, CCDMC and concerned bodies in their communities
- The 2-way communication from national level to community level is established
- The EWS activities have been replicated in neighboring villages/provinces
- A training package and guidebooks, poster and leaflet are developed and widely published





*Comparison between number of villagers receiving training and number of flood markers made by villagers*



*Comparison between number of villagers daily receiving flood information and number of flood response activities carried out by villagers*



**Home Flood Marker** 24 14:35



**Safe Areas for Livestock**



**House reinforcement**

26 14:13



**Stored firewood**

# Major Accomplishments

(Cont)



## Sustainability:

1. EWS has been integrated into the Commune Disaster Management Plan
2. Actively support and participation of the local authorities and stakeholders
3. The PSCs as body of the CCDM are established at villages
4. In agreement, the long-term Cooperation Agreement between MRC and Local Authorities for maintaining the EWS activities at 40 villages have been drafted and signed

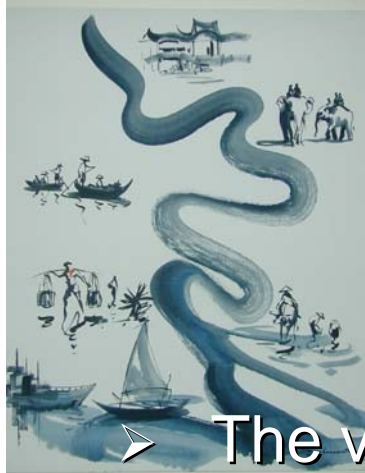


# Lesson Learned



- Villagers produced home flood marker referencing to flood markers;
- Villagers spread flood information among themselves;
- EWS reinforced the communication and cooperation among RCVs, CCDMC and concerned bodies in their communities;
- House to house visits by RCVs/PSCs proved to be the best method to disseminate the project information;
- Project activities have been replicated in neighboring non villages;

# **Lesson Learned** (Cont)



- The video has provided information to the villagers in helping them to understand the impact and damage caused by flooding.
- IEC materials were developed with input from the communities were well understood.
- Information provided by the project, communities have taken measures to reposition their houses and belongings to safer areas.
- Increased community involvement
- Stronger participation of NCDM
- Reinforced and/ or elevated residences

# Best Practices



RFMMC/DHRW

Before noon



11:00 hrs

Headquarter Offices of NCDM and CRC

14:00 hrs



10:00 hrs

Provincial Offices of NCDM and CRC

14:30 hrs



09:30 hrs

District Offices of NCDM and CRC

15:00 hrs



08:30 hrs

Communities and their feedback



# Thank You

