

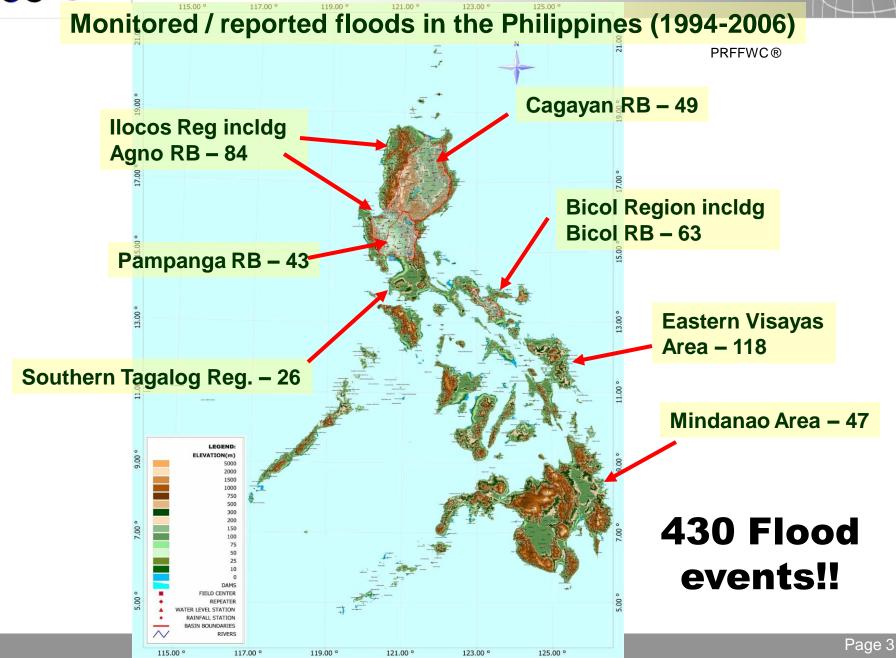
The Local Flood Early Warning System (LFEWS)

- * The Binahaan River Watershed (Philippines) experience
- * Saves Lives and Empower People including Women and Children

2012 International Day for Disaster Reduction (IDDR) and Asean Day for Disaster Management (AADM)October 2012, Thammasat University, Bangkok, Thailand

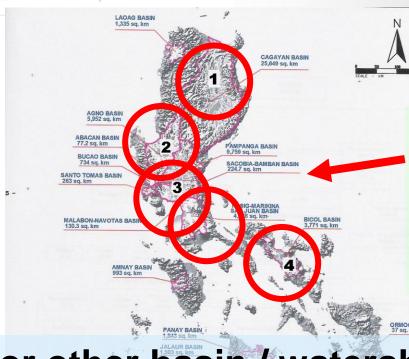






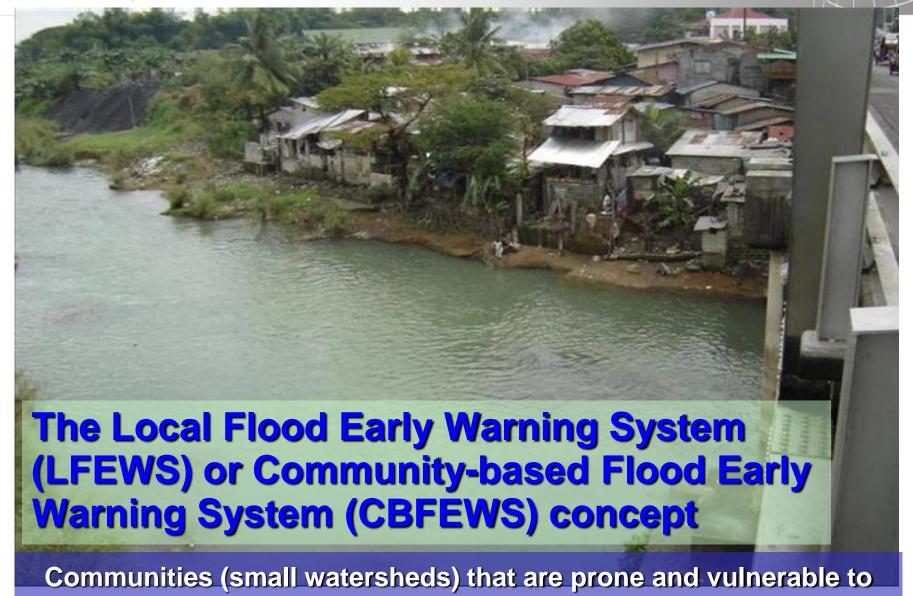






Only 5 (major) river basins with automated flood warning systems in the country.

For other basin / watershed areas: LFEWS (or CBFEWS) is still the best and preferred alternative.



flood disasters are particularly the main target areas.

Key Elements of LFEWS

Risk Knowledge

Hazard



Elements at Risk



Vulnerability

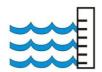


Monitoring & Warning

Rainfall



River Level



Warning Decision



Dissemination & Communication

Radio



Telephone



Household Warning



Response Capability



Evacuation

Search & Rescue



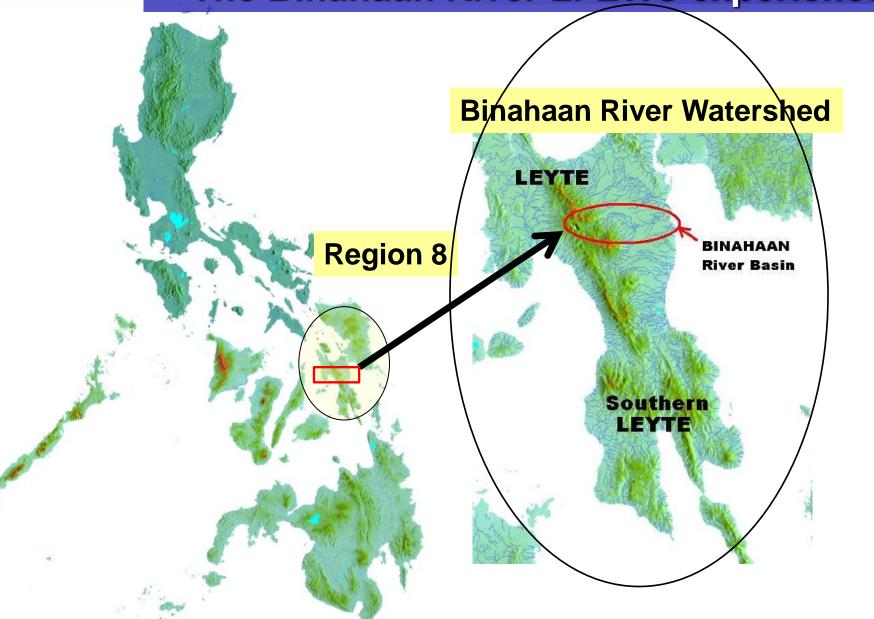
Relief Goods





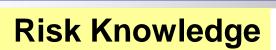


The Binahaan River LFEWS experience









Community-based mapping





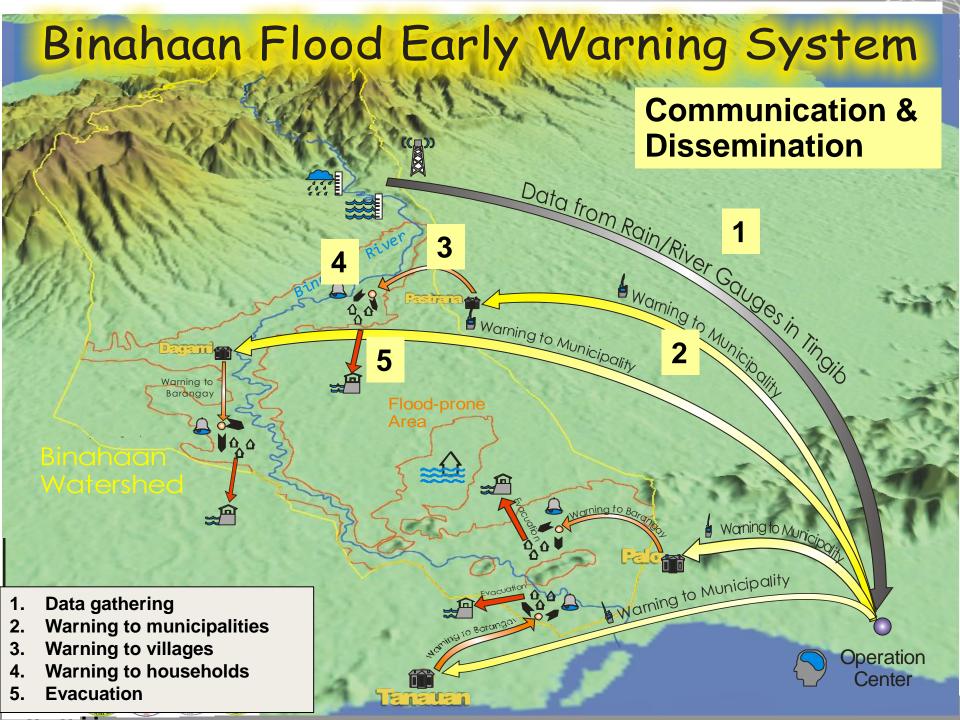
Monitoring (installation of equipment / observation)





Warning (Decisions & other related Information)







Response Capability

Improved Evacuation Centers

Search & Rescue Capacity
Training – drills & actual events







Summary:

The Binahaan River LFEWS; in other 8 LFEWS in Leyte-Samar Provinces

- System costs between 30,000 40,000 US\$ (Philippines)
- Run by (trained) "non-professionals" but guided by professionals
- Community has more time to prepare for floods; damages reduced
- Easily replicated in many areas (Philippines) & (possible) in other countries
- Involvement of volunteers in response is strong but weak in data transmittal - a challenge in Philippine settings



The role of Women & Children in LFEWS

Women & Children as active partners in LFEWS



... as partners in rainfall observations







Capacity building: able to understand & track movement of Tropical Cyclones





Building Resiliency in schools

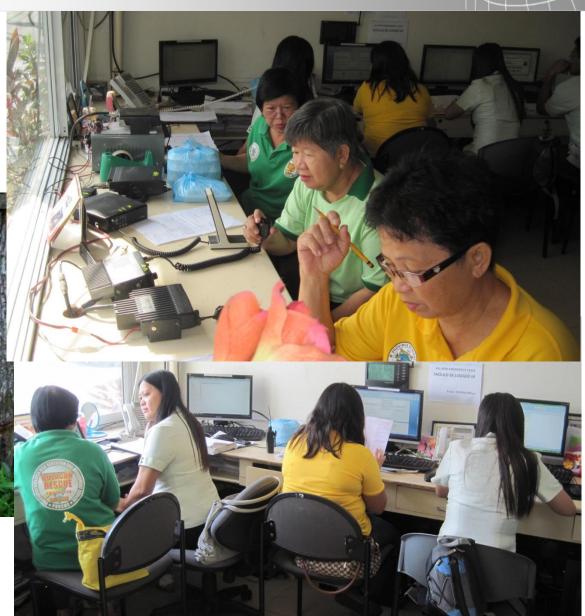
School Hydrological Information Network (SHINe)



Disaster Awareness & Reduction in School!

Active partners in Dissemination of info & warnings







Women & Children are no longer helpless victims... they are in the forefront of such activities.



Simulation exercises & Drills





The role of Women & Children in LFEWS

Women & Children as agents (leadership roles) of Resilience in LFEWS





... agents of Resilience in LFEWS

Convergence of scientific, technical and local knowledge in DRR measures as employed in LFEWS





... agents of Resilience in LFEWS

- A Integration in local development planning
- B landslide detection thru rainfall data
- C management & decisionmaking in the DRR operations & activities







Some Challenges, Priorities & Opportunities in DRR





giz Disaster Risk Mana in Development Coo Challenges, Priorities & Opportunities...

People / community must understand & accept their responsibility towards their own survival and not simply a matter for the government/s to find & provide solutions. All sectors in the community must work together & everyone has a role.





Challenges, Priorities & Opportunities...

Existing grass-roots and community-based organizations (at community level), including women organizations, should be reinforced for them to take action and participate on DRR activities.





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"Power of TEAMWORK and DISCIPLINE - increase a culture of helping each other during emergencies. Results in...

- direct strengthening of social solidarity and neighbourliness.
- · increase in social justice irrespective of class, gender, and other differences"



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Maraming Salamat Po.

