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Background: Painful experiences

"Myanmar Ranks first as the most at risk country in Asia Pacific according to the UN Risk Model" by UN-OCHA

2002-2012



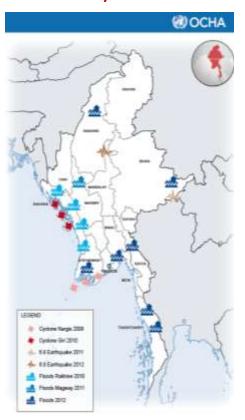
Three cyclones affected over 2.6 million people.



Floods affected over 500,000 people.



Two major earthquakes affected over 20,000 people.



Dec 2004 The Great Indonesia Sumatra Tsunami At least 61 people were killed

May 2008 Cyclone Nargis:

Almost 140,000 people death/missing in delta region

June 2010, Northern Rakhine state:

The flood Killed 68 people and affected 29,000 families

October 2010, Cyclone Giri:

Al least 45 people were killed, 100,000 people became homeless

March 2011, M.6.8 Earthquake in Shan State,

18,000 people affected, at least 74 people were killed.

October 2011, Flash floods in Magway Region 30,000 people were affected.

August 2012, Floods across Myanmar:

Floods in different state and regions over 287000 people were affected

November 2012, 6.8 Earthquake in Thabeikkyin





Key strategy of the activities

Strategy 1: Concept "3 helps"

Ref: Example from Kobe earthquake, 1995 in Japan

Analyzed by "3 helps": Self help, Mutual help, Public help

Q. Who helped when you were stacked in the damaged room during earthquake?

By myself	By family members	By friends neighbours	Persons who passed by	Fire brigades	Others
34.9%	31.9%	28.1%	2.6%	1.7%	0.9%

97.5% were saved their life by Self help & Mutual help

(資料)「1995 年兵庫県南部地震における火災に関する調査報告書」 (平成8年11月 日本火災学会)より作成

Actually public help consisted very less percentage at response in huge disaster, thus need of self help and mutual help are required.





Key strategy of the activities

Strategy 2: KIDA approach for making knowledge into action

KIDA knowledge Management Model
(Knowledge-Interest- Desire- Action)

Knowledge

Basic demonstrations models /posters are prepared for providing the basic information

Interest

Demonstration of impact of hazard can enhance interest of participants

Desire

Specific model of disaster resistant houses are provided to enhance the willingness of the participants

Action

Practical exercises on Mapping, non structural mitigation measures, drills can guide participants to take appropriate measures

ACTIONS

- Cyclone: Town watching, hazard hunt
- Earthquake: Town watching, hazard hunt
- Flood: Sandbag making & Life bottle making



KNOWLEDGE

- 1. Cyclone:
- Earthquake: Wave, Magnitude, Impacts
- 3. Flood: Generation

DESIRE

- Cyclone: Miniature of construction model
- Earthquake: Shaking table
- Flood: Flood generation drill



- 4. Cyclone: Wind Tunnel
- Earthquake: Swinging test
- Flood: Miniature of flood protection by sandbag











Key strategy of our activities

Strategy 3: ToT for sustainability

Training of Trainers (ToT to school teachers)



Learn from the Exhibitions of









Training for students by the teachers who received ToT training



Utilize the exhibitions of MKRC









In terms of target: To people who response

Public Awareness in wide range

We have reached to.....

[As of 31st Aug, 2014]

Students





Schools



304



20,536

4,918

WKRC

















2011

2012

2013





6. Sagaing Region



Methodologies in Trainings WKRC &MKRC contents

Knowledge

Interest

Desire















ဘေးကင်းလုံခြုံသောစံပြကျေးရွာ ပုံစံငယ်



ကဒ်ပြားများကစားခြင်း



အရေးပေါ် အိတ်ပြင်ဆင်ခြင်း



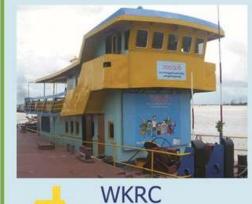
ဘေးကင်းလုံခြံသောနေရာများ လေ့လာခြင်းနှင့်မြေပုံများရေးဆွဲခြင်း



လေဆင်နှာမောင်း သရုပ်ပြပုံစံငယ်



အသက်ကယ်ရေဗူးခွံများပြုလုပ်ခြင်း



WKRC



By SEEDS Asia and MES











လေဒက်ခံအမိုး အဆောက်အဦ ပုံစံငယ်



လှုပ်ခါစားပွဲ စမ်းသပ်မှု ပုံစံငယ်

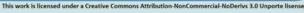


နိုင်ခံသော သစ်သားအိမ် ပုံစံငယ်



ယိမ်းယိုင်ခြင်းစမ်းသပ်မှုသရုပ်ပြပုံစံငယ် ဘေးကင်းလုံခြုံသော အုတ်တိုက်ပုံစံငယ်





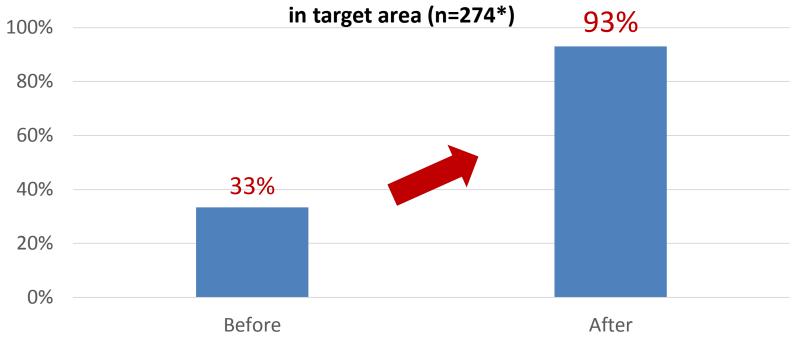




Output 1: Training Result of MKRC&WKRC

Total Quiz result Analysis (7 T/S): Explanation level of teachers (total average)

Could you explain the mechanism of each hazard (8 kinds of)?
Percentage of teachers those who answered "yes"



Answered by teachers

Average of 7 townships on 8 kinds of hazard



^{1:} Only TOT 特定計算知法數法人。SEEDS Asia.



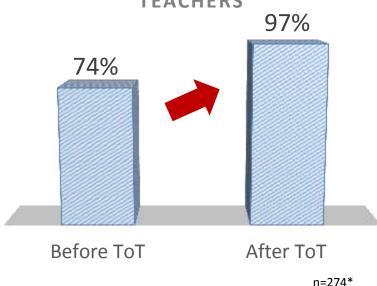
Output 1: Training Result of MKRC&WKRC

Total Quiz result Analysis(Oct 2013- till September, 2014): Total Average

Total – 46 Questions

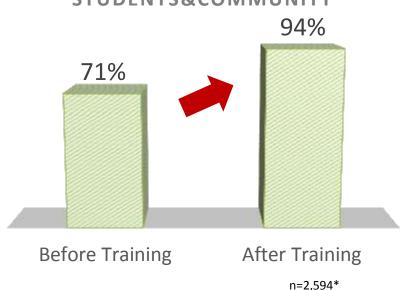
TOT: Teachers & TDPC

TOTAL AVERAGE OF DRR QUIZ TEACHERS



Students & Community





^{1:} Boga 好完那完粉体制结火





^{*}Note for numbers of teachers:

^{1:} Only ToT attended teachers are counted.

^{2:} A few teachers answered only before or sometime only after.

^{*}Note for numbers of students and community



Output 1: Training Result of MKRC&WKRC

Total Questionnaire result Analysis (Oct 2013- till September, 2014): Action for DRR (TOT)

JICA (2013 Oct-2014 Sep)	тот	School Training
1.Prepare emergency goods at school or home.	97%	87%
2.Tell the disaster story you have seen from video to students	97%	97%
3. Make life saving bottle at school or home	94%	77%
4.Listen more carefully to the announcement or news from Radio/TV/Newspaper	84%	96%
5.Tell safety tips to students which you learned from posters.	99%	93%
6.Discuss and made school evacuation plan with other teachers.	96%	80%
7.Research the history of disaster of your village/town	73%	35%
8.Check the furniture of your school/home to mitigate the risk of disaster by fixing to the wall etc	81%	72%
9. Join CBO's activity for DRR.	93%	69%
10.Get more interest in learning about disaster	98%	97%
11.Play DRR card game with students or family	87%	78%
12.Conduct evacuation drills	81%	78%
13.Make sandbags	89%	61%
44 Nation and principles and also	68%	53%
14.Making own miniature models		
15.Establish School DRR taskforce	72%	-



Self help Activities







Self Help













Mutual help Activities







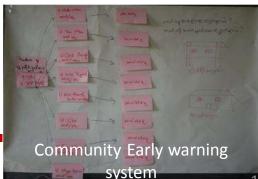














Public help Activities







Public Help











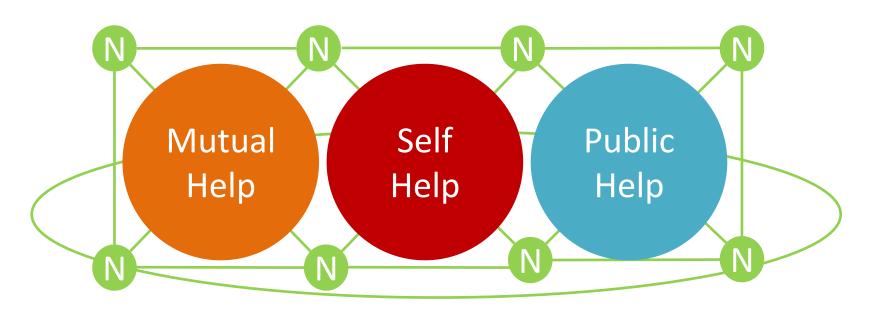


Key findings: Lessons learnt

Lessons learnt and the way forward

Enhancing capacity for DRR

= Enhancing 3 helps + Network



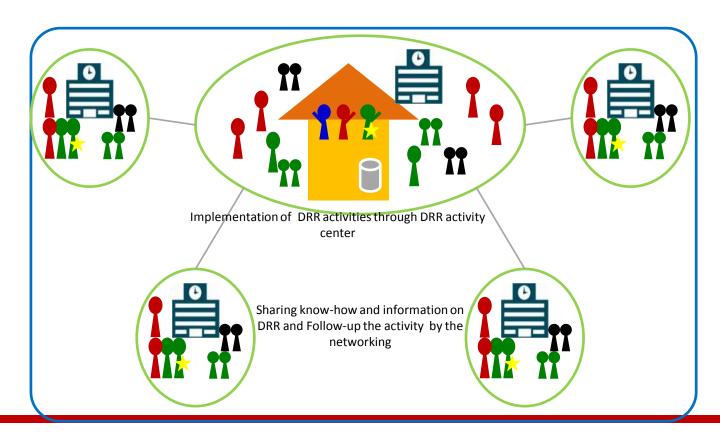
Network Help





Key findings: Need for System Integration

- 1. Community-School linked DRR education and activity for DRR to be sustainably implemented (monitoring system in it)
- 2. Market(needs)-oriented training to be conducted.







Output 2:Prepare to operate DRRAC

Materials for learning/teaching

























Key findings: Lessons learnt

From the lessons learnt from past projects

Effectiveness

-With KIDA model, MKRC&WKRC has been confirmed the effectiveness in increasing awareness together with gaining knowledge and skills (+ led to actions) within a short time of training.

Positive impact

- -After training, one teacher could spread to 96 students/family per year as average. One students can spread 12 people who are surrounding of him/her such as family members and friends.
- -Children are tend to take action more than teachers.
- -Participated students/teacher showed the proper action when the early warning for Tsunami was issued 11th April 2011.

Limitation in activities

Limited in opportunities (children who are not schooling) and follow-up(not all students and teachers were covered). Developing the plan and implementation of DRR activities in schools and community needs to be initiated and followed some way.

Limitation in area

Even in the focus townships, 50% of schools were visited. 260 BEHS, 510 BEMS in Ayeyawady itself...







Thank you very much for your kind attention



Daw Aung San Su Kyi and U Thura Shwe Mann July 2013

