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### Supplement of

# Disaster risk reduction education in Indonesia: challenges and recommendations for scaling up

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## **Supplementary Material 1**

#### Teacher and school principal questionnaire

#### **Participant information**

Gender: Male / Female

Full Name:

Name of school:

Your answers are anonymous and your name will not be identified with your responses. Your name here is for tracking purposes only.

Age:

Occupation:

School address:

Number of teachers: Nur			educat	ion pers	sonnel:			
Number of students:								
Please read each of the following statement	and	decide	how m	nuch yo	ou agree	e with e	each	
I think		Strongly disagree	Moderately disagree	Slightly disagree	Neither agree nor disagree	Slightly agree	Moderately agree	Strongly agree
Children have an important role in disaster preparedness								
Involving children in disaster preparedness will per them at greater risk	put							
Involving children in disaster preparedness will provide benefits for the children								
Involving children in disaster preparedness will strengthen the preparedness plan								
I am confident to involve children in the disaster preparedness process								
Children should be involved in disaster simulations and response exercises								
Children should be involved when developing preparedness planning at <b>home</b>								
Children should be involved when developing preparedness planning at <b>school</b>								
Children should be involved when developing preparedness planning at <b>council level</b>								

2. I thi	nk it would be useful for children to learn about (please tick all that apply):
	Disaster prevention and preparedness
	Problem-solving/decision-making tools related to life problems
	How to be involved in the community to help prepare and to response when disasters strikes
	Climate change
	The environment and sustainability
	None of the above
	Other
If other,	please describe here:
	nk the following institutions should be involved for children's education on disaster risk action (please tick all that apply):
	Their local school
	District disaster management agency
	District health office
	Local council
	Other
If other,	please describe here:
4. My s	school has included the following subject(s) in the curriculum: (please tick all that apply):
	Disaster prevention and preparedness
	Problem-solving/decision-making tools related to life problems
	How to be involved in the community to help prepare and to response when disasters strikes
	Climate change
	Environment and sustainability
	Other
If other,	please describe here:

5.	Mys	school h	as conducted t	he following	g activities (pleas	e tick all tha	at apply):	
		Table-to	p exercises					
		Emerge	ncy response ex	ercises and tr	aining			
		Full disa	ster simulations	5				
6.			any of the activ to improve prep		ion 5, do you think	they	☐ Yes	□ No
7.	7. If you <u>DID NOT</u> tick any of the activities in question 5, do you think any of them would be useful to improve preparedness?					☐ Yes	□ No	
8.		-	,		rdination with th agement planning		•	gency and loca
		]						
CC	No oordin		Very low	Low	Medium	High	Very High	I don't know
9.	-	-	ect to have cha cy planning and	-	school's level of ess?	f contact wi	th other agenc	ies in relation
			Yes				No	
	If ye	s, please	e describe the	changes tha	t you expect to o	ccur:		

	at would be the barriers or challenges that might deter you from doing disaster risk uction education for children in your classroom? (please tick all that apply)
	Lack of "ready to go" and "child-friendly" teaching resources
	Lack of knowledge about disaster risk reduction
	Lack of training in developing and/ or delivering programs of this sort
	The topic is not relevant for the students
	The topic is not a priority by the school management
	Not compatible with my beliefs about what children should learn in school
	Not enough space in the curriculum
	Lack of interest from the community
	Not enough budget, and personnel
	Weak coordination between schools, disaster management agency, and local councils
	No clear mandate and/ or policies to implement disaster risk reduction education for children
	Other
If other,	, please describe here:
	at factors might help you to do disaster risk reduction education for children in your sroom? (please tick all that apply)
	Availability of useful "ready to go" and "child friendly" teaching resources
	Promotion on the teaching resources by other teachers or education personnel
	Training available on how to develop and/or deliver such programs for children
	Innovative methods for curriculum inclusion (e.g., combining learning with school drills)
	The topic becomes a priority by the school management
	Topic is timely in relation to upcoming risk for local natural hazards (e.g., bushfire/fire/cyclone/flooding seasons)
	Personal interest in the topic
	Student interest in the topic
	Clear policies for school to deliver disaster risk reduction education for children
	Dedicated time, personnel, and budget made available
_	Good partnerships between schools, disaster management agency, and local councils
	Good partnerships between schools, disaster management agency, and local councils  High demand from the local community/ students on disaster risk reduction education for children

12. Would you be interested in training if it was offered and didn't impinge unduly on your time?

	Ш							
Yes No  13. If yes, what type of training would you be interested in? (Please tick all that apply)  Classroom or Instructor-Led training								
	Experiential or Hands-on training							
	Computer-Based training							
	Online or E-learning							
	Blended or combination of the above							
	Others							
If you se	elect "blended or combination	n of the above" or "oth	ner", please exp	ain briefly l	nere:			
14. Plea	ase indicate how prepared yo	ur school currently is t	o respond to a h	nazard				
	1 - Not at all 2 3 4 - 5 6 7 - Very well							
1 - Not	t at all 2 3	4 - Moderately	5	6	7 - Very well			
		Moderately			·			
15. Beld	t at all 2 3 ow are the steps of contingen 7 steps.	Moderately			·			
15. Belo	ow are the steps of contingen	Moderately acy planning process. P			·			
15. Belo	ow are the steps of contingen 7 steps.	Moderately ncy planning process. P nd analysis			·			
15. Belo	ow are the steps of contingen 7 steps. Conducting risk assessment a	Moderately acy planning process. Pund analysis	lease tick one o		·			
15. Belo	ow are the steps of contingen 7 steps. Conducting risk assessment a I think children should be invo	Moderately acy planning process. Pund analysis lived in this process informed on the results	lease tick one o		·			
15. Belo	ow are the steps of contingen 7 steps. Conducting risk assessment a I think children should be invo I think children should only be	Moderately acy planning process. Pund analysis lived in this process informed on the results	lease tick one o		·			
15. Belo	ow are the steps of contingents 7 steps. Conducting risk assessment a I think children should be invo I think children should only be I don't think children should b	Moderately acy planning process. P and analysis lived in this process informed on the results e involved nor informed	lease tick one o		·			
15. Belo	ow are the steps of contingents 7 steps. Conducting risk assessment a I think children should be invo I think children should only be I don't think children should b	Moderately acy planning process. P and analysis lived in this process informed on the results e involved nor informed	lease tick one o		·			

Step 2: L	Developing disaster scenarios
	I think children should be involved in this process
	I think children should only be informed on the results of this process
	I don't think children should be involved nor informed in this process
	I am not sure
	I have other views: (please describe)
Step 3: A	Analysis on the severity of disaster impacts
	I think children should be involved in this process
	I think children should only be informed on the results of this process
	I don't think children should be involved nor informed in this process
	I am not sure
	I have other views: (please describe)
Step 4: I	dentify policies and strategies during emergencies
	I think children should be involved in this process
	I think children should be involved in this process  I think children should only be informed on the results of this process
	I think children should only be informed on the results of this process
	I think children should only be informed on the results of this process  I don't think children should be involved nor informed in this process
	I think children should only be informed on the results of this process I don't think children should be involved nor informed in this process I am not sure
Step 5: A	I think children should only be informed on the results of this process I don't think children should be involved nor informed in this process I am not sure
Step 5: A	I think children should only be informed on the results of this process I don't think children should be involved nor informed in this process I am not sure I have other views: (please describe)
□ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □	I think children should only be informed on the results of this process I don't think children should be involved nor informed in this process I am not sure I have other views: (please describe)  Assessing projections of needs and the available resources (when disaster occurs)
	I think children should only be informed on the results of this process  I don't think children should be involved nor informed in this process  I am not sure  I have other views: (please describe)  Assessing projections of needs and the available resources (when disaster occurs)  I think children should be involved in this process
	I think children should only be informed on the results of this process I don't think children should be involved nor informed in this process I am not sure I have other views: (please describe)  Assessing projections of needs and the available resources (when disaster occurs) I think children should be involved in this process I think children should only be informed on the results of this process
Step 5: A	I think children should only be informed on the results of this process  I don't think children should be involved nor informed in this process  I am not sure I have other views: (please describe)  Assessing projections of needs and the available resources (when disaster occurs)  I think children should be involved in this process  I think children should only be informed on the results of this process  I don't think children should be involved nor informed in this process

dentifying a plan of action for building preparedness
I think children should be involved in this process
I think children should only be informed on the results of this process
I don't think children should be involved nor informed in this process
I am not sure
I have other views: (please describe)
Testing the contingency plan through disaster simulation
I think children should be involved in this process
I think children should only be informed on the results of this process
I don't think children should be involved nor informed in this process
I am not sure
I have other views: (please describe)

# **Supplementary Material 2 Children questionnaire**

# **Questionnaire on Disaster Preparedness** For 4<sup>th</sup> and 5<sup>th</sup> Grade Students

Full Name:		Gender (Male/ Fer	male):
Age:	Age:		
Question related to your pers	•		
1. Which of the following ha	zards could aff	ect you at school? <b>(</b>	please tick all that apply)
Earthquake	☐ Tsunar	ni [	Landslides
☐ Volcano eruption	Floods	[	Strong winds/ typhoon
Droughts	☐ Forest/	bush fire	Urban fire
☐ Tidal wave	Disease	es/ Epidemics [	Riot, conflict or
Others If you should the	hia nlagga daga		
Others. If you choose the	nis, piease desc	cribe below:	
2. Which of the following ha	zards could aff	ect vou at home? <b>(r</b>	please tick all that apply)
☐ Earthquake	☐ Tsunan		Landslides
☐ Volcano eruption	Floods	[	Strong winds/ typhoon
Droughts	☐ Forest/	bush fire	Urban fire
☐ Tidal wave	☐ Disease	es/Epidemics	Riot, conflict or
		V	iolence
Others. If you choose the	nis inlease desc	rihe helow:	
Others. If you choose th	iis, pieuse uese	TIDE DETOWN	
3. Do you know how to be sa	afe from disast	ors?	
· 🗂		¬	
☐ Yes	<u></u>	」 No	

☐ Father		☐ Mother		Grandparents
☐ Brothers o	r sisters	Friends		Other relatives
☐ Extra curri	cula (e.g. scouts)	Teachers		School books
Newspa others	per, magazines, or	TV, radio, or other	rs $\square$	Internet
Others. If y	you choose this, pleas	se describe below:		
E With whom d	le veu chere and disco	uee veur deily estivities?	mla asa tisk	all that apply
5. With whom d	o you share and disci	uss your daily activities? <b>(</b> ] Mother		randparents
Brothers or	r sisters	Friends at school	_	ther relatives
	neighbourhood			
Others. If y  6. Would you lik	te to know more abou	ut how to stay safe from c	lisasters?	
		ut how to stay safe from o		am not sure
6. Would you lik		□ No		am not sure
6. Would you lik	es .	□ No		am not sure
6. Would you lik	es .	□ No		am not sure
6. Would you lik  Ye  Why? Please brie	es fly explain your answ vorried, scared, or up	□ No		
6. Would you lik  Ye  Why? Please brie  7. Do you feel w	es fly explain your answ vorried, scared, or up	er No		
6. Would you lik  Ye  Why? Please brie  7. Do you feel w	es fly explain your answ vorried, scared, or up	er set when you think or talk		
6. Would you lik  Ye  Why? Please brie  7. Do you feel w floods or fire?  Not at all	es  fly explain your answ  vorried, scared, or up:  Yes, sometimes	er set when you think or talk	about disa	sters, such as

9. I can neip o	ther children to feel coi	mfortable or less	upset in an emerger	าсу
Yes, I can	Maybe	No, I can not	I am not sure	
10. Have you e	ver done drills at home	?		
Yes	No	I am not sure		
11. Have you e	ver done drills at your s	chool?		
Yes	No	I am not sure		
12. Does your h and during	nouse have preparedne: disasters)?	ss plans (a docun	nent explaining what	t to do before
Yes	No	I am not sure		
13. If not, do yo	ou want to have it in yo	ur house?		
Yes	No	I am not sure		
14. Do you thir	k you should be involve	ed in developing t	the plan?	
			·	
Yes	No	I am not sure		
15. Do you war	nt your school to have d	isaster prepared	ness plans?	
Yes	No	I am not sure		
16. Do you thir	k you should be involve	ed in developing t	the plan?	
Yes	No	I am not sure		
17. What do yo	u think on <b>your school</b>	readiness to face	disaster risks?	
Very not prepared	Not prepared	Prepared	Very prepared	I am not sure

18. What do you think on <b>your home</b> readiness to face disaster risks?						
Very not prepared	Not prepared	Prepared	Very prepare	red I am not sure		
19. Would you like making your sc prepared for di	hool to be more	☐ Yes	□ No	☐ I am not sure		
20. Would you like making your ho prepared for di	ome to be more	☐ Yes	□ No	☐ I am not sure		
willy: Flease blief	fly explain your answ	GI				
<b>Questions related</b>	to knowledge and sk	cills on fire prepar	re <b>dn</b> ess			
21. List five (5) thir	ngs that you need to o	do to prevent fire	in our home?	)		
-	ger signs (wailing sire should you do?	n, bamboo knocki	ng, electric po	ole knocking, alarm		

- a. Ignore it and keep playing
- b. Run toward the sounds
- c. Stop, listen and do what you toldd. I don't know

- 23. If you are sitting in a class at school when a fire breaks out, which one of these is the correct procedure
  - a. Everyone shout "Fire!" and run out
  - b. Follow teachers' instructions. Don't talk. Don't run. Don't push. Don't go back
  - c. Pick up all my belongings and look for a telephone
  - d. I don't know
- 24. How do you put out fire from a burning stove?
  - a. Throw cold water
  - b. Throw warm water
  - c. Cover it with a damp towel or blanket
  - d. I don't know
- 25. If you are at home and there is a fire approaching, what should you do?
  - a. Stay inside
  - b. Go outside away from the fire
  - c. Go outside to get a better view
  - d. I don't know

#### Questions related to flood and tidal wave preparedness

26. List five (5) things th surrounding environ	nat we should do during floods nments:	or tidal wave in our home or

- 27. What should you be aware of when flood water has receded?
  - a. People, pets, and bugs
  - b. Nothing to worry about
  - c. Stay away from electric poles, fallen trees, and wild animals such as snakes
  - d. I don't know
- 28. If you are at home and flooding starts, what should you do?
  - a. Go outside and play with water
  - b. Turn off electronics and put things up high
  - c. Watch TV or listen to the radio
  - d. I don't know
- 29. What should you do when you hear or see signs of flooding?
  - a. Go to a higher and safer place
  - b. Go outside and play with water
  - c. Nothing
  - d. I don't know
- 30. If you must enter flood waters, what should you wear on your feet?
  - a. Boots or waterproof shoes
  - b. Slippers
  - c. Bare feet
  - d. I don't know

- 31. If you must enter flood waters, what should you check?
  - a. Temperature
  - b. Depth
  - c. Bugs
  - d. I don't know
- 32. What should you use to check the flood waters?
  - a. Stick
  - b. Legs
  - c. Eyes
  - d. I don't know
- 33. If you must enter flood waters, what should you look out for?
  - a. Boats
  - b. Bugs
  - c. Snakes or other wild animals
  - d. I don't know
- 34. Should you go into water that is more than knee-deep?
  - a. Yes, because I can swim
  - b. No, because I cannot swim
  - c. No, because it is dangerous
  - d. I don't know
- 35. When you return to your house after flood waters recede, what do you do?
  - a. Leave it
  - b. Clean it as much as we can. Use protective clothing and be very careful
  - c. Play inside
  - d. I don't know

#### Questions related to hygiene practices

- 36. Do you think it is safe to eat food that has been in contact with flood water?
  - a. No, if it looks dirty
  - b. No, throw it out
  - c. Yes, if it looks okay
  - d. I don't know
- 37. How do we make sure that the water we drink is safe after flooding?
  - a. Drink boiled water or bottled water only
  - b. Drink the water if it looks clean
  - c. We should not drink for a while
  - d. I don't know
- 38. To kill germs, we should wash our hands using:
  - a. Water
  - b. Running water and soap
  - c. Water, soap, and tissue
  - d. I don't know
- 39. When do you wash your hands with soap?
  - a. Before eating
  - b. Before and after eating
  - c. Before and after eating and also before and after peeing and defecate (poop)
  - d. I don't know

- 40. If your house is flooded and you want to poop, what should you do?
  - a. Poop anywhere since it is an emergency
  - b. Poop at your neighbor house, shelter or other latrine that is not flooded
  - c. We should wait to poop until the flood water going down
  - d. I don't know

\*\* FINISHED \*\* ☺

Thank you very much for your thoughts and taking the time to complete this survey