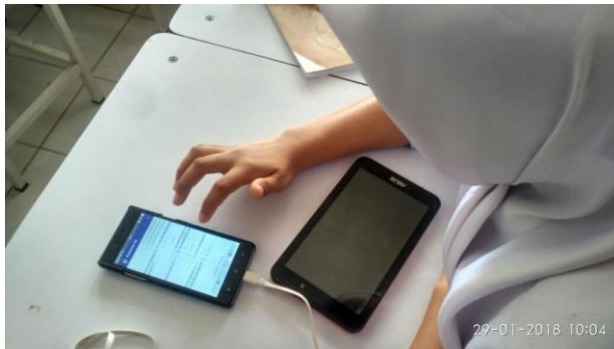


# STEP-A

## Indonesian Contribution to the First Step in Assessing and Increasing School Disaster Preparedness



**Irina Rafliana**

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Interdisciplinary and Advanced Research – LIPI

Science and Technology Advisory Group (STAG)  
UNISDR



Intergovernmental  
Oceanographic  
Commission



Indian Ocean  
Tsunami Information  
Centre



Empowered lives.  
Resilient nations.



SEKRETARIAT  
NASIONAL  
S P A B  
Satuan Pendidikan Aman Bencana



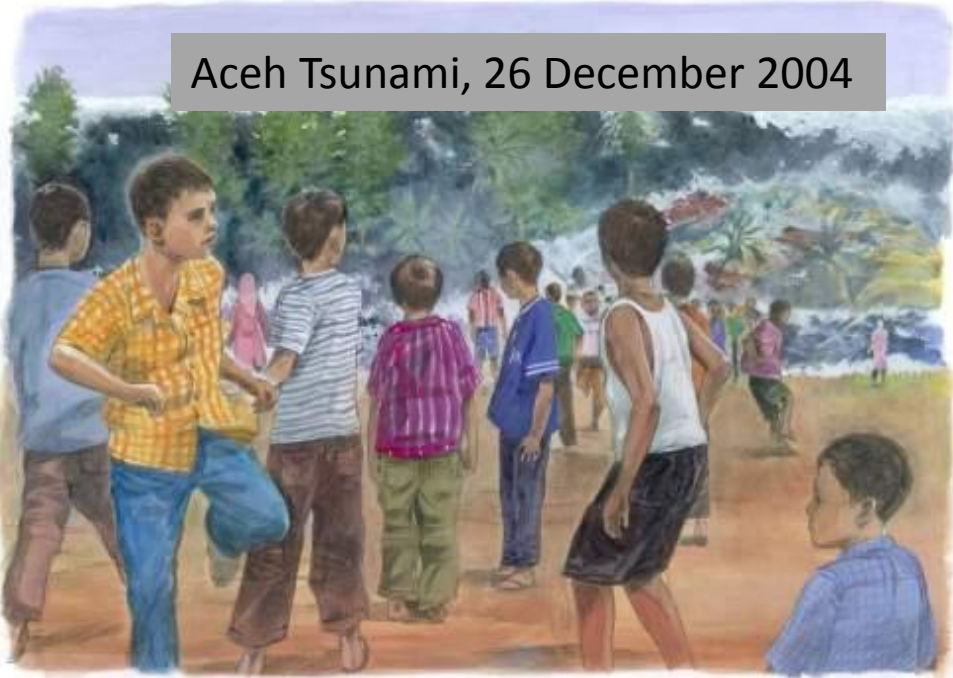
From  
the People of Japan







Aceh Tsunami, 26 December 2004



Great East Japan Tsunami 11 March 2011



# Events during school time

No.	Day / Date	Location	Magnitude (Richter Scale)	Time	Note
1	Sunday, 12 December 1992	Flores	7.9	15:00	Afternoon
2	Sunday, 4 June 2000	Bengkulu	7.3	23:28	Late evening
3	Sunday, 26 December 2004	Aceh, Indian Ocean coast	9.3	07:58	Morning
4	Saturday 27 May 2006	Jogjakarta	5.9	05:54	Morning
5	Sunday, 27 May 2006	Indramayu	7.3	00:04	Midnight
6	Saturday, 12 September 2007	Bengkulu	7.9	18:10	Afternoon
7	Sunday, 4 January 2009	Manokwari Papua	7.2	02:43	Early morning
8	Wednesday, 2 September 2009	Tasikmalaya	7.3	14:55	Afternoon
9	Wednesday, 30 September 2009	Padang	7.6	17:16	Afternoon
10	Monday, 25 October 2010	Mentawai	7.2	21:42	Evening
11	Monday, 4 April 2011	Cilacap	7.1	03:06	Early morning
12	13 October 2011	Bali	6.8	10:16	Morning

Mentawai, 25 October 2010



School building washed away by very short lead time  
tsunami  
in Purourougat village, South Pagai - Mentawai

# **WORLD TSUNAMI AWARENESS DAY – 5 NOVEMBER**

Weblink: <http://www.asia-pacific.undp.org/content/rbap/en/home/SchoolTsunamiPreparedness/videos/>



# Who Developed STEP-A?

- Based on LIPI - UNESCO School Based Disaster Preparedness Programme since 2006 Piloted in 200 Schools in Tsunami Prone Areas in Indonesia
- Coordinated by UNDP Indonesia, supported by UNDP Regional Hub in Bangkok through project: Reduce the loss of lives of school children in high tsunami risk areas in Asia and the Pacific through better awareness and preparedness (*funded by the Government of Japan*)



# About STEP-A

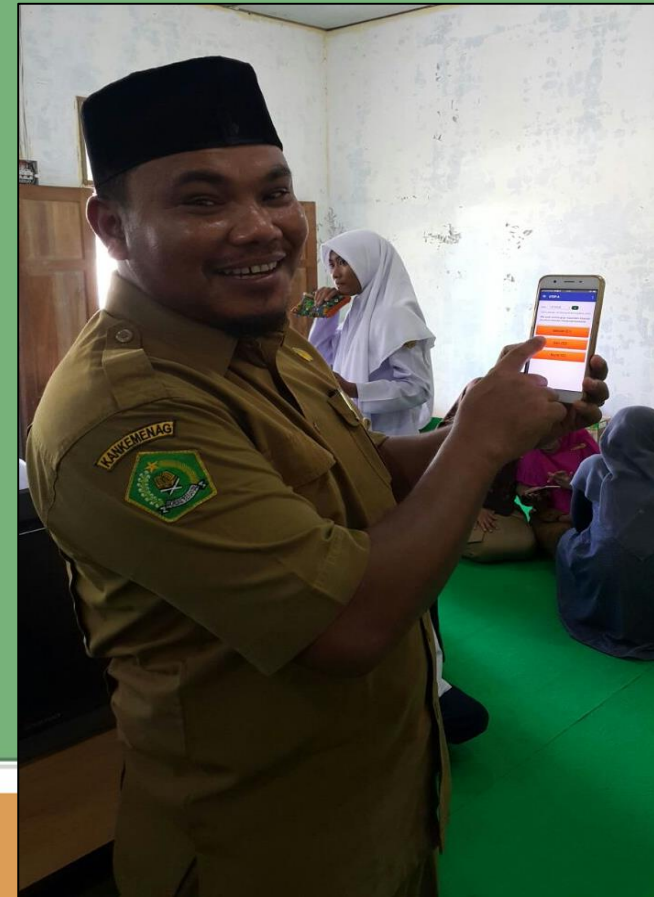
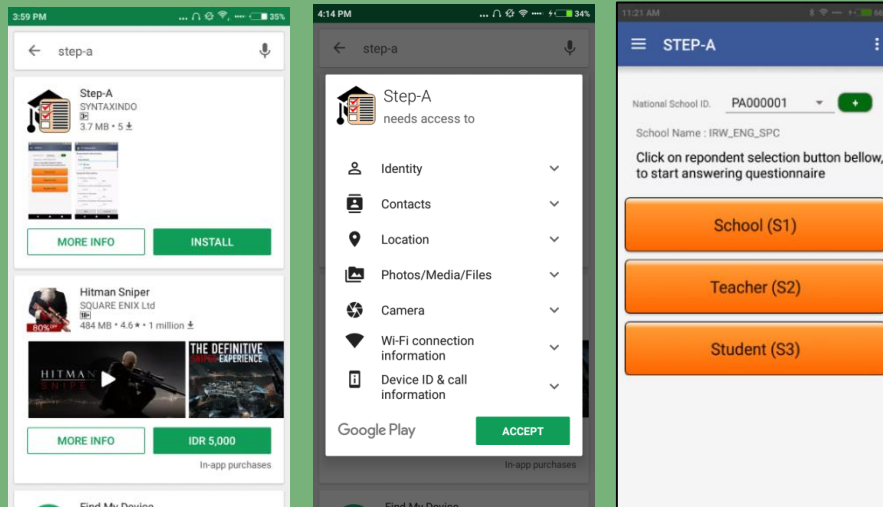
- Mobile Apps based assessment tool - school self assessment
- Respond to Pillar - 2 of the Global Framework on Comprehensive School Safety
- A tool to measure school's preparedness based on five parameters:
  1. School Policy
  2. Knowledge
  3. Preparedness and Response Plan
  4. Early Warning System
  5. Resource Mobilization Capacity
- Measured preparedness of :
  1. School institution (by the headmaster)
  2. Teachers
  3. Students





# About STEP-A

- Questionnaires based assessment:
  - School\* (S1) → 41 questions (for School Principal/Headmaster)
  - Teacher (S2) → 35 questions (for # of respondents representation with gender balance)
  - Student (S3) → 38 questions (for # of respondents representation with gender balance)
- Available in languages:
  - English
  - Indonesian



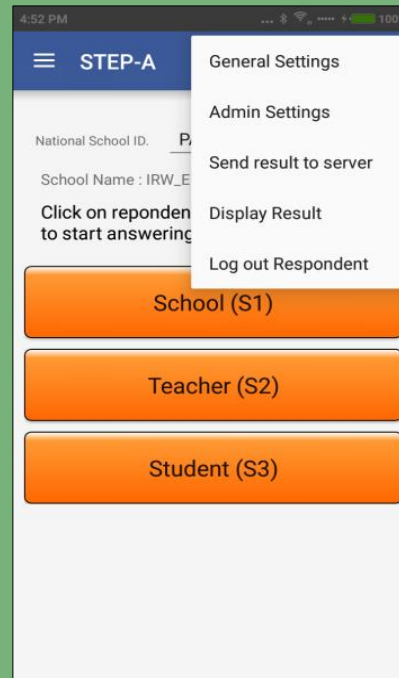
# School Assessment Process

1. Download and Install STEP-A Apps on Android
2. Login and Register
3. Fill in the Questionnaires
  - a. School (School Head Master)
  - b. Teacher (# of representatives - Gender)
  - c. Children (# of representatives - Gender)
    - All questions need to be answered to be able to continue to the next section
    - # of responders need to be full-filled to be able to submit the questionnaires to get the result
4. Send Result to Server
  - On line and Off line
  - One device may be used by several users
5. Received assessment report



# Getting the Result

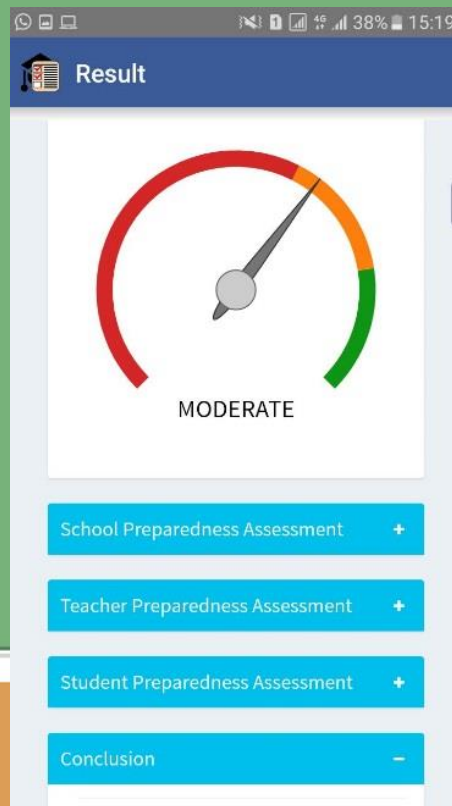
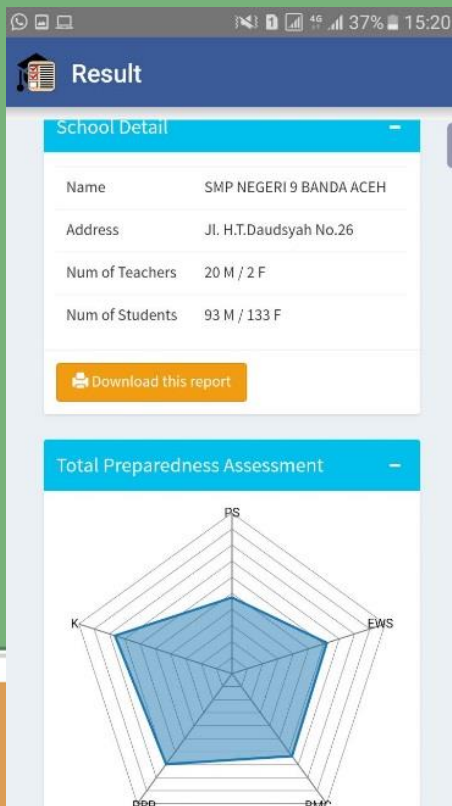
- Report of the school's level of preparedness can be obtained after submission of result to Server (based on School ID)
- Result includes conclusion and recommendation
  - Result available in Apps
  - Printable Pdf Version
  - Information available in InaRISK map (Indonesia)





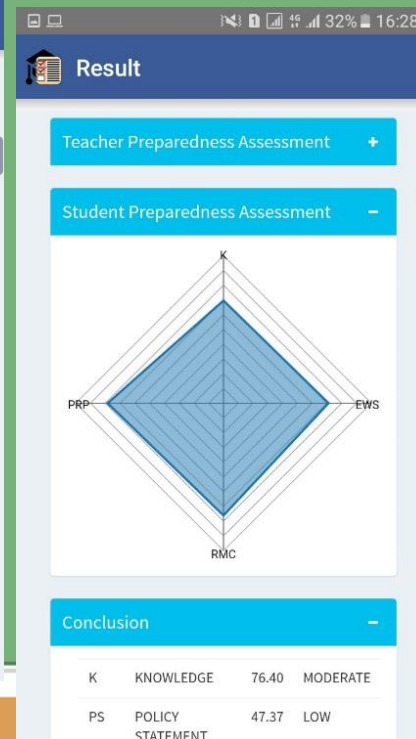
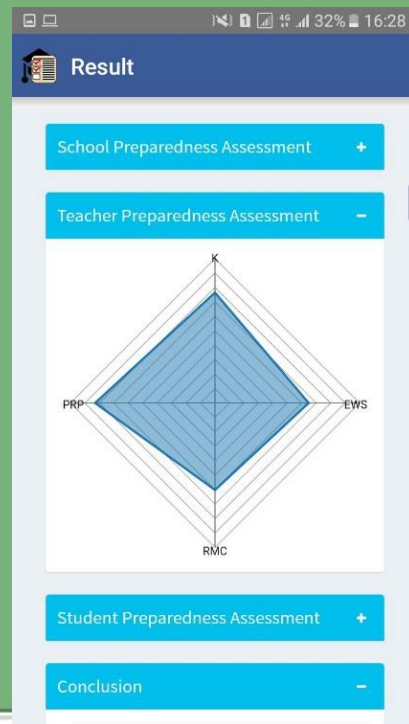
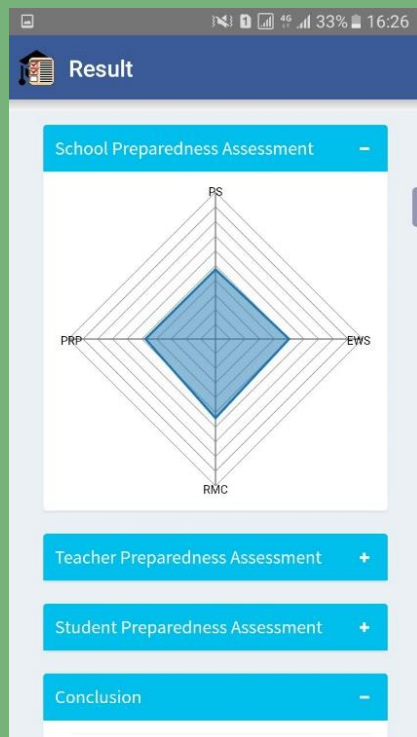
# Assessment Result

- School information details
- Preparedness Assessment
  - Spyder web diagram showing 5 parameters of preparedness (School, teacher, Student) in one aggregate/total.
  - Speedometer diagram showing the level of preparedness of the school in 3 level; Low (Red), Medium (Orange), and High (Green).



# Assessment Result

- Preparedness of the 4 parameters for each respondent
  - School Preparedness → School as an institution
  - Teacher Preparedness
  - Student Preparedness



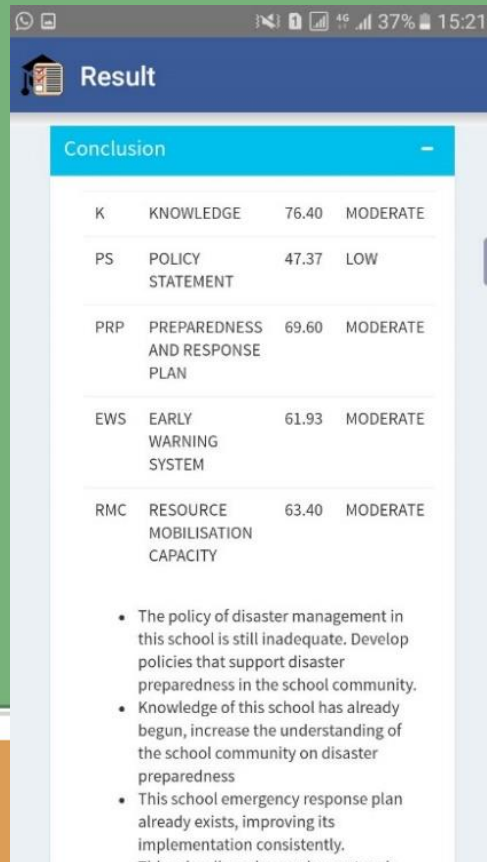
# Assessment Result

- Conclusion

- Showing the exact score of 5 parameters assessed and the narration of the overall score.

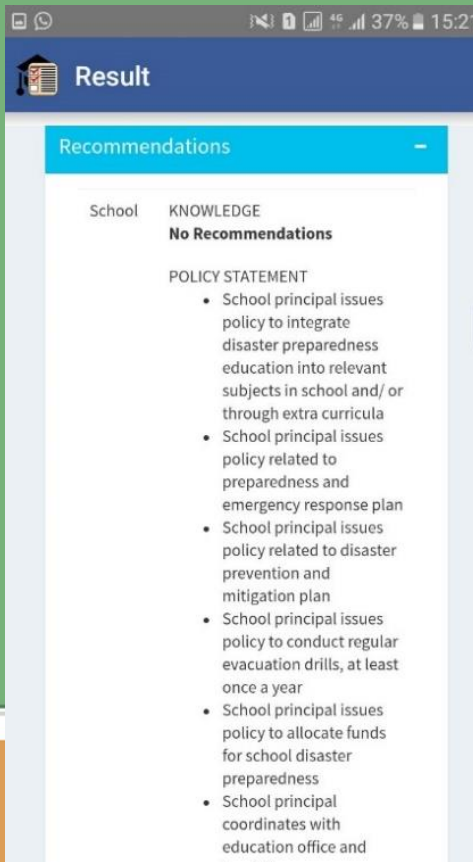
- Recommendations

- Showing recommendations for each parameter and each type of respondent.



Parameter	Category	Score	Overall Rating
K	KNOWLEDGE	76.40	MODERATE
PS	POLICY STATEMENT	47.37	LOW
PRP	PREPAREDNESS AND RESPONSE PLAN	69.60	MODERATE
EWS	EARLY WARNING SYSTEM	61.93	MODERATE
RMC	RESOURCE MOBILISATION CAPACITY	63.40	MODERATE

- The policy of disaster management in this school is still inadequate. Develop policies that support disaster preparedness in the school community.
- Knowledge of this school has already begun, increase the understanding of the school community on disaster preparedness
- This school emergency response plan already exists, improving its implementation consistently.



Respondent	Parameter	Recommendations
School	KNOWLEDGE	No Recommendations
School	POLICY STATEMENT	<ul style="list-style-type: none"><li>• School principal issues policy to integrate disaster preparedness education into relevant subjects in school and/ or through extra curricula</li><li>• School principal issues policy related to preparedness and emergency response plan</li><li>• School principal issues policy related to disaster prevention and mitigation plan</li><li>• School principal issues policy to conduct regular evacuation drills, at least once a year</li><li>• School principal issues policy to allocate funds for school disaster preparedness</li><li>• School principal coordinates with education office and</li></ul>





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Intergovernmental  
Oceanographic  
Commission



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Empowered lives.  
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