

## Training for Tsunami Evacuation Planning Building Capacities for Evacuation Planning Processes

### BACKGROUND

Tsunami evacuation plans play a strategic role in tsunami preparedness as they provide key information to communities to save themselves in an emergency situation. While the provision of local tsunami evacuation plans is task of district authorities (BPBD), the planning process itself requires the participation of many stakeholders. District evacuation plans are important references for the further development of tsunami evacuation procedures at institutional, grass root and family level.

As part of the PROTECTS capacity development program a training module has been developed to prepare professionals related to local disaster management to advise and to facilitate district tsunami evacuation planning processes.

### ABOUT THE TRAINING

The 5-day training is targeted to professionals who will support district authorities as technical resource persons and facilitators in evacuation planning processes.

The training is designed in a way that it relates to specific local conditions and upcoming evacuation planning processes. It is most effective if the participants are already assigned to support these planning processes and information from hazard and risk assessment is already available for the respective areas.

The topics covered by the training include basic concepts and principles of tsunami evacuation planning and follows a simple 5 steps approach as outlined in the related Guidebook "Planning for Tsunami Evacuation". The training is "hands on" and participants are exercising the development of evacuation strategies and procedures based on real cases. The training also addresses issues like the endorsement of evacuation plans and communicating them to the public.

The learning experience is complemented by a follow up planning and supposed to lead to an action plan to help putting intended evacuation planning processes on track. Ideally representatives of the respective local authorities should be present during the last training day to participate in the follow up planning.

### TRAINING MANUAL & REFERENCES

A Training Manual has been developed and contains general information on the training, a training moderation plan as well as supporting materials for trainers to conduct the training. The moderation plan describes the different training sessions indicating their objectives, content, methodology, materials, time needed and what outputs are expected. The Training Manual also provides standard and sample training materials as well as formats for training management purposes.

As part of the training package important reference documents are provided including the Guidebook "Planning for Tsunami Evacuation" and a collection of samples hazard maps, evacuation maps and evacuation leaflets from several areas previously assisted by the PROTECTS project.



## PRACTICAL EXPERIENCES SO FAR

In the frame of the PROTECTS project three trainings were implemented targeting districts and cities in NTB, Bali, Yogyakarta and East Java with up to 20 participants in each training. Additionally, the project involved local resource persons from the study areas to share experiences from “real life”.

Upon the completion of the training, the participants were able to apply their knowledge and skills and continued their learning by seeking technical assistance from project’s advisors and from one another.

The trainings were most beneficial in areas where participants had already been engaged in local working groups on tsunami preparedness. Experiences show that participants benefited most when the learning could be applied in a real evacuation planning process soon after the training.

The evacuation planning processes require visualizing the results in the form of maps. Although tsunami evacuation maps can be drawn manually, it might be desirable to produce digital maps for good reasons. To support the production of digital maps the project has published a guideline on “Recommendation for the layout of tsunami evacuation maps” and designed a training module to produce evacuation maps with the use of the open source “Quantum” GIS-software.



## FURTHER IMPLEMENTATION OF TRAININGS

It can be expected that the demand for trainings on tsunami evacuation planning will grow in the future as most Indonesian communities still lack solid tsunami evacuation plans.

A Training Manual and related materials are available and have been designed in a way that it will enable experienced trainers with solid background knowledge and experience on tsunami hazard and tsunami evacuation planning to implement the developed module. Nevertheless, it has to be emphasised, that the implementation of this training module requires excellent training skills and in-depth technical understanding of the subject. For future implementation and / or adaptation, it is strongly advised to seek the assistance of experienced trainers (see imprint section).

The complete Training Module was also handed over to BNPB in May 2013.



## ACKNOWLEDGEMENT

The Tsunami Evacuation Planning Training Module was developed within the PROTECTS project and implemented in a joint program together with our Partners from the BPBDs and working groups at provincial and district level in Java, Bali and NTB. Inputs by LIPI and BNPB have contributed to the improvement of the training module.



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