

FACTSHEET

Capacity Building



German Indonesian Tsunami Early Warning System

Establishment of a Tsunami Early Warning System in the Indian Ocean – The German Contribution



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Programs, measures and strategies to enhance skills of scientists, coach partner organizations and prepare coastal communities to cope with tsunami risks

With the support of the Federal Ministry of Education and Research (BMBF) and the State Ministry of Research and Technology (RISTEK) core elements of a tsunami early warning system (TEWS) in the Indian Ocean are jointly developed by German and Indonesian research institutions and agencies.

The sustainable operation and maintenance of the TEWS is not only dependent on the installation of crucial technological instrumentations and sensors, but also on the sustainable strengthening of existing organizational structures, institutional capacities and human resources being essential for the nationwide implementation, application and further development of the system in Indonesia.

In order to accomplish these long-term objectives in a series of multifaceted measures and programs, the Capacity Building work package within GITEWS has been established embracing three subcomponents:

1. One working group focusses on higher-level educational programs and technical trainings. The United Nations University (UNU) coordinates a PhD-Program with young scholars and collaborates with

different German partner institutions. In addition GITEWS opens the possibility for short-term visits of Indonesian scientists and engineers as visiting scientists in Germany. In close co-operation with the Indonesian Ministry of Research and Technology (RISTEK) the project has charged Capacity Development International (InWEnt) to set-up and progress a Capacity Building Unit (CBU) that is responsible for the planning, implementation, and quality assurance of all training measures. The CBU works closely with all partners involved in the TEWS. InWEnt also provides the CBU with an Internet-based Human Resource Development Platform to announce and document all capacity building measures, including courses, awareness campaigns, workshops and conferences. In addition the GITEWS project provided and will provide a wide variety of training courses, training workshops, instruction courses and on-the-job education covering all technical and scientific facets of the TEWS.

2. The objective of the second working group is to strengthen the executive agencies' capacities, especially their co-operation and organisational structures at national level. One of the main tasks is to facilitate institutional processes related to TEWS and assist establishing a network of different responsible institutions to effectively achieve immediate and direct warnings to the people at risk. Round





tables were initiated on national and regional level to achieve responsible decision making and participation in the warning chain. Finally, institutional development identifies and supports training for key stakeholders to minimize knowledge gaps, to increase standard capacities and capabilities and to establish Early Warning requirements and Tsunami drills within the framework of a multi hazard disaster management in Indonesia.

3. The third working group "Capacity Building in Local Communities" sets its focus on the development and implementation of widespread procedures deemed necessary to clarify and define roles regarding warning reception as well as to develop response capacities on the Last-Mile. In return, products, results and experience derived on the local level are used to indicate and disseminate best-practice in National decision making processes.

In this respect, the further clarification of the warning chain between the national and regional warning centres of the Meteorological and Geophysical Agency (BMG), the local authorities and the affected population is of particular interest. Evacuation drills and awareness raising in schools help preparing the communities at risk. Hand outs, manuals, posters, radio messages etc. have been arranged and disseminated. At national level the project is coordinated with RISTEK and the Indonesian Institute of Science (LIPI) and maintains working relations with BMG and Home Affairs. Close cooperation and coordination with national and international partners and within the UNESCO-ICG working group on Community Preparedness is an additional focus of this subprogram. Pilot areas are the City of Padang in Sumatra, Badung district in Bali and the Batul, Kebumen and Cilacap districts in southern Java.



The results of all Capacity Building components are more than encouraging and reveal their relevance for the functioning of the comprehensive Early Warning System.



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Federal Institute for Geosciences and Natural Resources (BGR)
GFZ German Research Centre for Geosciences
United Nations University Bonn (UNU)
Internationale Weiterbildung und Entwicklung gGmbH (InWEnt)
German Aerospace Centre (DLR)

Indonesian and International Partners:

Meteorological and Geophysical Agency of Indonesia (BMG)
Indonesian Institute for Science (LIPI)
United Nations Educational, Scientific and cultural Organization (UNESCO)