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Editorial

The last quarter of 2008 was marked by a number of important events. On the 11th of November the Indonesian Tsunami Early Warning System was officially launched by the President of the Republic of Indonesia, Susilo Bambang Yudhoyono. A high ranking German delegation led by the Parliamentary State Secretary Thomas Rachel attended the ceremony in the National Warning Center at BMG and then headed on to Bali for the inauguration of the International Conference on Tsunami Warning (ICTW) and a field visit to the Pilot Area. The field trip brought the German delegation to the community of Tanjung Benoa to discuss tsunami preparedness issues with representatives from the local community, BMG Bali and the hotel sector. During Christmas days Bantul District in Pilot Area Java conducted its first "end to end" drill successfully. The drill was conducted in the frame of the national tsunami drill campaign 2008 and observed by representatives from national institutions.

Good news also for our project: additional funding for an extension of project activities until March 2010 has been approved. The planning process for the second phase will be held in early February 2009 and be preceded by a project evaluation in January. During the second phase we will continue supporting the implementation of tsunami early warning in the Pilot Areas. A second focus will be on "Mainstreaming" of the lessons learnt in order to assure that more and more communities can link to the system.

Best regards
Harald Spahn, Team Leader GTZ-IS



Impressions from the Inauguration of the Indonesian Tsunami Early Warning System in Jakarta and the International Conference on Tsunami Warning in Bali

On Tuesday the 11th of November 2008, representatives from different partner countries who support the development of the Indonesian Tsunami Early Warning System (INA-TEWS) could witness its official inauguration by Susilo Bambang Yudhoyono, President of the Republic of Indonesia, in Jakarta. The German Government and its contribution to the system (GITEWS) was represented by, Thomas Rachel, State Secretary in the Federal Ministry of Education and Research (BMBF). Starting from the 12th until the 14th of November, the Island of Bali hosted the International Conference on Tsunami Warning, a forum for presentation and exchange of international research results and practitioners' experience.



Susilo Bambang Yudhoyono, President of the Republic of Indonesia, during his inauguration speech at BMG, Jakarta



Kusmayanto Kadiman, Minister of Research and Technology and Mr. **Thomas Rachel** during the opening of the ICTW conference in Bali



Thomas Rachel, State Secretary in the Federal Ministry of Education and Research discussing with Professor **Reinhard Hüttl**, Chair of the Scientific Executive Board of the GFZ, German Research Centre for Geosciences.



The German Delegation visited *Pura Luhur Uluwatu*, a Hindu temple built in the 11th century on the southern peninsula of Bali.



Visit to the **tsunami operation center in BMG** to observe the data analysis and decision making process



The **GTZ Sector Project "Disaster Preparedness"** used the momentum for an in-house information session at GTZ headquarters in Eschborn, Germany about GTZ's involvement in capacity building within GITEWS



Community Representatives / Members of German Delegation in Tanjung Bena / The Bali Governor and the Minister of Research and Technology at PUSDALOPS

Visit of the German Delegation to Pilot Area Bali

On occasion of the inauguration of INA-TEWS and the ICTW a group of 17 members of the German Delegation headed by Thomas Rachel, State Secretary in the Federal Ministry of Education and Research (BMBF) visited Tanjung Bena, a community on the northern tip of the Nusa Dua peninsula to get some insights into tsunami preparedness initiatives and challenges in Bali.

Briefing

During a lunch at the Conrad Hotel the German Delegation had a first opportunity to discuss the subject with representatives of the Balinese authorities and the Bali Hotels Association (BHA).



Meeting with community representatives from Tanjung Bena

Tanjung Bena was one of the communities in Bali that started tsunami preparedness activities already during the Bali Drill in 2006. With support from PMI, the Indonesian Red Cross, a local community based action team (CBAT) was created to strengthen community preparedness. As no higher ground is reachable within time, the community relies on vertical evacuation options to neighbouring hotels.



Warning chain

Warning dissemination technologies was the topic during the first stop at the BMG siren. Agus Riyanto from BMG Bali explained the siren protocol and the hand over of sirens operation to the province authorities by BMG Jakarta in 2009.



A big challenge for local authorities is the division of responsibilities within INA-TEWS. BMG is only mandated to issue warning messages while the provision of guidance to the community at risk is the task of the local governments.

Bali was Pilot Area for the testing of the FM-RDS technology. During the Bali Drill in 2006 the system was installed and 30 receivers distributed to various institutions. Feedback shows that there is a high acceptance of this technology especially in the private sector. A decision to operate FM-RDS on a permanent basis is still due.

Hotel preparedness

The specific situation in Tanjung Bena is one of the reasons for Andrew Gall, GM of the Ramada Hotel to think about a strategy to improve the security of his guests but also how to deal with the needs of the people from the neighbouring community in case of a tsunami.

During the visit he explained the measures already implemented, like the installation of signs marking escape routes and the preparation of evacuation spots for people from the local community. Gall based his preparations on the 'Tsunami Ready Toolbox' which was developed by the Indonesian Ministry of Tourism (BUDPAR) together with the Bali Hotels Association (BHA). The toolkit can be downloaded free of charge from the following website: <http://www.my-indonesia.info/page.php?ic=1133&id=4114>

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PUSDALOPS BALI

Parallel to the visit of the Pilot Area Bali a ceremony was held at the KESBANGLINMAS office in Denpasar to lay the foundation stone of the new Emergency Operations Center (PUSDALOPS) in Bali. The ceremony was attended by the Indonesian Minister of Research and Technology, Kusmayanto Kadiman, and the Balinese Governor, Made M. Pastika. From the German Delegation, representatives from the German Embassy, GFZ and GTZ participated in the event.



The construction of the PUSDALOPS is funded by the French Government. The French Red Cross and GTZ agreed to cooperate in the development of the operational procedures for the new center, which will have basically 4 functions:

- (1) Disaster Management and Information,
- (2) Disaster Response (natural hazards),
- (3) Early Warning Services,
- (4) Emergency Response Service (non natural hazards)



An exhibition provided the opportunity to get some further insights into local preparedness activities.



Awareness campaign / Participants of the BHA training / Draft version of the hazard map for southern Bali

News from Pilot Areas

Pilot Area Bali

A series of training activities have been implemented in Bali to strengthen capacities for 24/7 early warning operations and to increase community awareness. The development of an official tsunami hazard map is making progress, a final draft version is expected by end of 2008.

Training of staff for 24/7 operations

Balinese authorities implemented a temporary 24/7 service for tsunami early warning at KESBANGLINMAS province office in Denpasar. During a 2 day course the personnel was trained in operating the technical equipment and running Standard Operating Procedures for decision making.

Training of Facilitators

A group of 18 representatives from various governmental and non governmental institutions attended a 4 day training course to prepare for a tsunami awareness campaign in villages along the coast of Badung District.



The training was implemented by 2 members of the Balinese Branch of the Indonesian Red Cross (PMI), who had been actively involved in the development process of the training module and curricula which took place during a two day workshop in Yogyakarta in October.

Socialization campaign at village level

A socialization campaign is currently implemented by Badung district authorities as part of the agenda to increase community awareness regarding tsunami hazard and early warning.

Hazard Mapping

During the ICTW members of the Balinese Working Group met with Indonesian scientists and representatives from GITEWS to discuss the progress and next steps related to the development of an official hazard map for southern Bali.



DLR presented an updated version of the multi scenario hazard map. As it still includes scenarios which are regarded as highly unlikely, it was agreed that a final version should be elaborated until the end of 2008.

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Training for BHA

On behalf of the Bali Hotels Association (BHA) a training course for the set up of the BHA Tsunami Early Warning Service was conducted at the Ritz Carlton Hotel together with BUDPAR advisor Alex Kesper (GTZ-CIM). The course was attended by a group of employees operating the Ritz Carlton security office.



The Ritz Carlton Hotel will provide a 24/7 service for BHA member hotels to provide guidance in case of a tsunami warning for Bali.

Local communication networks

In November, a short term consult explored local communication networks which might be used by 24/7 operation centers to disseminate warning and guidance messages to the community at risk. The study focused especially on existing VHF/UHF networks operated by Balinese organizations and the public sector.

Next steps in Bali

During the ICTW meeting it was agreed that a final draft version of the hazard map should be available by the end of 2008. Together with a technical note the map will be presented to the Balinese authorities and other involved Indonesian institutions for further discussion and approval. In Badung District the project will support the local stakeholders during the development process of evacuation maps for their coastal areas.



Workshop XI opened by Mr. Sukardiono / Mr. Rahman & Mr. Sungsang of BPPT and Mr. I Nyoman of Bakosurtanal / Organising evacuation planning and socialization

Pilot Area Java

Approaching the end of 2008, the Districts of Bantul, Kebumen and Cilacap implemented several activities to complete the components of the tsunami early warning system. Among others are the development of evacuation plans and awareness campaigns, setting up Pusdalops and warning receivers at community level. Bantul implemented a full scale tsunami drill involving communities in two villages.

Workshop XI

The Local Government of Bantul hosted Workshop XI at the Wisma Tamu PGPS Madukismo in Bantul on the 17th and the 18th of October 2008. The workshop was opened by Mr. Sukardiono, First Assistant to the Regent, who emphasised the important roles of community in building preparedness. Willingness, capability and courage on the part of key players in the districts are deemed crucial to materialise local preparedness.

The workshop discussed steps to finalise the evacuation maps and evacuation strategies (developed together with the communities) and to carry out awareness campaigns for the targeted communities in their areas.

Three guest speakers were present in the workshop. Mr. I Nyoman Sukmantalya of Bakosurtanal explained about the role and the contribution of Bakosurtanal in developing thematic maps for evacuation. Mr. Rahman Hidayat and Mr. Sungsang Urip Sujoko of BPPT discussed the roles of community in preparedness.



Facilitators exercising in peer facilitation

Training of Facilitators (ToF)

Some 39 community representatives and members of Working Groups participated in the ToF held from the 4th to the 8th of October 2008 in Yogyakarta. The participants learned about the general concept of facilitation, the causes and the impacts of tsunamis, TEWS and preparedness, and the techniques of facilitation of communities. At the end, each participant could exercise their newly acquired knowledge and skills of facilitation with their peers.

The ToF was facilitated by a team from PSMB-UPN Yogyakarta and GTZ-IS GITEWS.



Facilitators after completed a 5-day ToF

In November and December 2008, the facilitators and the members of the Working Groups developed work plans and carried out awareness campaigns in selected communities, at schools and in settlement areas in their respective districts.

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Implementation of Local Subsidies

Financial support by GTZ-IS to the three districts:

- Conducted awareness campaigns for some villages and schools.



Community installing evacuation sign in Bantul

- Developed evacuation plans and produced evacuation signs - applying the standard set by RISTEK.
- Received some basic communication equipment to enable Pusdalops to start operating; two locations (tourist place and mosque) were equipped with warning receivers connected to Pusdalops.

Additionally, support was also extended to Bantul District for implementing a full scale Tsunami Drill on the 24th of December 2008. (Please see the related feature, on page 8).

Next steps in Java

The Workshop XII is to be conducted in early 2009. Installation of communication equipment and evacuation signs continues in the Districts of Kebumen and Cilacap. The mission for the project evaluation will visit Pilot Area Java at the end of January 2009. Further activities will be defined during the planning workshop in early February.



Project Review Workshop & Concept Discussion

Pilot Area Padang

At the end of 2008 the overall achievements in tsunami preparedness in Padang were reviewed. The partners also took a close look at the project's co-operation, defined vital steps for the 2nd phase of the project and continued the discussion of the overall concept for TEW in Padang.

Project Review Workshop to assess INA-TEWS implementation progress in Padang

The assessment on progress of INA-TEWS implementation in Padang was conducted on 17th of November 2008 at Rocky Hotel, Padang together with local partners.

The assessment was done by applying the checklists developed by the project. The results of the November 2008 assessment were then compared with the results from the initial assessment in March 2007. The comparison showed major progress regarding INA-TEWS implementation in Padang in areas like warning dissemination tools and response capacity.



Recommendations and follow up activities derived from this assessment aim at supporting institutional aspects which are needed to implement TEWS as high priority such as the development of BPBD, the development and publishing of TEW SOP, and the development of operation guidelines for Pusdalops.

Discussion on concept and recommendation for INA-TEWS implementation in Padang

Together with the main actors of tsunami preparedness in Padang – the Government of Padang, KOGAMI, and PMI – the project discussed the concept and recommendation for INA-TEWS implementation in Padang.



The main agreement from this discussion was to treat the TEW SOP for Padang as a high priority. The official TEW SOP has then to be synchronized with the Provincial Government of West Sumatra according to the division of responsibility between Province and District level. A Governor's Decree would guarantee the necessary legal and administrative frame.

A second result from the discussion was an agreement to promote and implement INA-TEWS in a way that it is integrated with the local strategies of the communities.

The new structure and framework in Padang

Padang election took place during October. The BPBD Kota Padang (Disaster Management Body of Padang) has also been approved by Padang Legislative Council in the same month.

Officials in Padang Government are now still waiting for the new official structure and policies which will affect the development of BPBD Kota Padang.

The new structure and framework of Padang Government was inaugurated on 24th of December 2008. Therefore several project activities in cooperation with Padang Government were postponed until the inauguration.

Those postponed activities include the support of BPBD, development of TEW SOP, and training for operators at Pusdalops.

Based on recent information, BPBD Kota Padang is expected to get started and operating by January 2009.

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Next steps in Padang

Based on the results from the Project Review Workshop and concept discussion conducted together with local actors the main focus for 2009 will be on (1) the development of an official TEW SOP for Padang, (2) the synchronization of the division of responsibility between Province and District level regarding TEW, (3) the support for training & equipments for BPBD/Pusdalops and (4) the capacity building activities for local communities.



KOGAMI

Komunitas Siaga Tsunami (KOGAMI) is a non profit organization working to minimize risks of disaster. The main functions are to catalyze on supporting the government's programs, as facilitator on capacity building for communities and governance to develop a culture of disaster preparedness in a comprehensive, integrated and sustainable way. KOGAMI's members come from all parts of communities who care to minimize disaster risks.

Development of Pilot Communities for Preparedness in Padang

The objective of developing pilot communities is to develop a reference or guidelines to minimize risks of disaster in selected communities to be adopted in any other vulnerable areas.

KOGAMI with support from UNESCO-ISDR has developed a draft of a general guideline which is called "Disaster Attack" - ("*Serangan si Bencana*").

In order to finalise and complete the document KOGAMI implements the guideline in the pilot area RW 17 and RW 19 Parupuk Tabing – Padang.

KOGAMI, in coordination with the Education Agency (Dinas Pendidikan) from West Sumatra Province has developed a draft of a Preparedness Curriculum. The final version of this draft was tested in 12 pilot schools in Padang paralel with training activities to teachers in selected schools.



Training for Public Transportation Driver

To strengthen the communities in Padang for disaster preparedness KOGAMI facilitated a workshop for drivers of public transportation on certain routes along the Padang coastline. In the workshop, conducted on 11th of November 2008, a joint agreement or commitment from the public transportation driver community and all other related institution such as Transportation Agency of Padang (Dinas Perhubungan Kota Padang), Police of Padang, the Organization for Ground Public Transportation (ORGANDA), and KOGAMI was achieved.

This workshop was also addressing the role of the public transportation drivers in disaster preparedness as written in the MoU. Hopefully ORGANDA can soon develop a kind of SOP for emergency response based on their roles.



About INA-TEWS Implementation in Padang

KOGAMI as a pioneer of disaster preparedness activities in Padang is always involved in creating policies regarding preparedness in Padang. Close cooperation with the government of Padang and any other related stakeholders is very helpful to realize Padang's vision "Padang Siaga Bencana" and the mission of KOGAMI to develop a professional preparedness institution, strengthening the capacities of the communities, and make use of networks for the optimal performance of the organization.

KOGAMI also is involved in the implementation of INA-TEWS in Padang since the beginning of this project in 2006.

KOGAMI will support the development and socialize INA-TEWS to communities once the concepts, mechanism and appropriate equipments related to INA-TEWS are completed and legalized.

We are hoping that the integration of appropriate technologies in community preparedness approaches will strengthen disaster preparedness in Padang city.

Education Materials

To speed up dissemination of knowledge about preparedness in communities, KOGAMI has updated their education materials, i.e. leaflet, poster, booklet, and comic. These materials were developed with support from UNESCO-ISDR, Pemko Padang and West Sumatra Province and distributed to communities, schools, and the private sector.

Program for 2009

- Development of Pilot Communities in Padang, Pesisir Selatan and Padang Pariaman.
- Development of Supporting Community for Disaster Preparedness
- Preparedness Week Festival
- Initiation workshop for BPBD in City/Districts in West Sumatera
- Training for Private Sectors for Emergency Response

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During the tsunami drill, Mr. Idham Samawi - the Bupati, Sekda and Dandim engaged in an intensive communication. People running away to the safe place in Orobayan field.

Tsunami Drill in Bantul 2008

The importance of exercising community preparedness was once again shown by the Local Government of Bantul through the implementation of the tsunami drill on the 24th of December 2008. Different from the 2006 drill with much support from the provincial level, the tsunami drill 2008 was a self-sufficient effort by the community in Bantul. The actors involved in the various stages of preparation and implementation felt that it resulted in a fruitful drill for all.

The Purpose of the Drill

This tsunami drill was set up to try out the components of early warning recently implemented in the pilot villages of Poncosari (Sanden Sub-district) and Gadingsari (Srandakan Sub-district) in Bantul. People in two villages together with the Working Group made use of the tsunami hazard map for Bantul as a base to develop their own evacuation plans. The plans comprise of evacuation maps and evacuation strategies. Evacuation signs were installed in strategic places along the evacuation routes in the two villages.

The results of the planning process were then communicated to the community at large through an awareness raising campaign, implemented by trained local facilitators and the working group. During these campaigns, other topics were also discussed, e.g. knowledge regarding causes and impacts of tsunami, local warning chain and reaction towards warning signs.

Eleven mosques in the two villages were modified to connect with the Pusdalops to enable the inhabitants to receive information and warning. Pusdalops was set up at Kesbanglinmas Office, equipped with sufficiently modest communication technology, personnel and references (SOP) for rapid decision making.



Personnel of Pusdalops during Table Top Exercise

A Step by Step Approach

A guideline was produced in consultation with relevant parties to provide direction for the implementation of the tsunami drill. The guideline elaborates the roles and responsibilities of the stakeholders involved, the communication tools used, the stages and the scenario applied. Communities in the villages and the key formal/non-formal institutions were informed regarding their active participation prior to the drill.

A **table top** simulation was the first exercise done on the 18th Dec to practise effective communication among the institutions. This simulation was carried out twice in the Village Hall of Pal Bapang, each with different setting. An improved coordination of stakeholders was observed during the 2nd simulation.

A **general rehearsal** was the second exercise held on the 20th Dec in an open field of Sorobayan, where hundreds of people from the communities participated. Similarly, it was also run twice to test improvements during the 2nd simulation.

The **tsunami drill** was conducted on the 24th Dec. Over 2.500 people from two villages, personnel from the relevant government and non-government institutions as well as the local authorities participated actively. The drill took place from 08:30 am to 12:00 pm.

GTZ-IS and PMI/GRC (Indonesian and German Red Cross) extended assistance to make the drill possible. RISTEK supported the implementation of the table top, the general rehearsal and the drill. Some 16 colleagues from the CBU Team (RISTEK, BMKG, BNPB, Deplu, POLRI and Military HQ), and others (Pusdalops Padang, PMI, Global Rescue) were present to observe the drill.

The Scenario of the Tsunami Drill in Bantul

Bantul was showered with rain in the morning of the 24th Dec. These conditions added to the intention of Bantul to run an 'as-natural-a-possible' tsunami drill.

It all began with people carrying out their daily activities until 08:30 when speakers at the mosques started roaring – signifying that an earthquake was occurring. People started reacting – moving/staying away from the coastal area, riverbanks, and buildings ...

Soon a 'Heads-up' message was received at Pusdalops Bantul via HT from BMKG Yogya, followed by a SMS with a tsunami warning from BMKG Jakarta at 08:35. Personnel at Pusdalops checked the reference maps and its SOP, then started disseminating warning and guidance for evacuation, and activated sirens at the mosques in villages ...

Thousands of people immediately began to move out to the safe areas, the local authorities instructed institutions to mobilise their resources to assist the evacuation and emergency. Minutes later, the streets along the villages of Gadingsari and Poncosari looked busy with people, personnel of SAR, PMI, TNI, Police, Health Office, Proprietary, etc., their vehicles being in emergency situation...

Then, everyone ended up in Sorobayan - the designated safe area, served and waited to be informed when it was safe for them to return ...

Later, those involved felt and claimed to have learned much from the overall processes.

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SHARING FOR PREPAREDNESS

A documentation of GITEWS Activities in Java Pilot Area

Ideas or activities are more useful when they become replicable or are translated into lessons learnt for other areas, or are captured for evaluation. Documentation is an effective media: how the initiatives contribute to the learning process of many parties and the increase of critical awareness of community; how a collaborative management of the project encourages the establishment of a system in protecting and saving the people from the threats of tsunami hazards - where it constitutes one of the responsibilities of the state as mandated in the Constitution. Through documentation, the steps and the sequence of GITEWS project in the pilot area of Java have been captured well.

The Purpose

Documentation of the project carried out in the pilot area of Java is considered important for learning process. The documentation team consisted of 5 persons, who were independently involved to record the process of the project activities during the months of Nov and Dec 2008.

The purpose of the documentation was to capture the process of the activities being carried out by GTZ-IS and its partners in the Districts of Bantul, Kebumen and Cilacap, particularly for the Workshop XI, the Training for Facilitators, the development of Evacuation Plans and the implementation of awareness campaigns at the community level.

The main output of the documentation process, beside the 'raw materials' of video-film and digital photos, is a report highlighting lessons learned as well as recommendations for future replication of similar activities. The documenting team attended as many meetings as possible scheduled by the Partners in the three districts.

Locations	Evacuation Planning	Awareness Raising Events
Bantul		
Gadingsari	10	16
Poncosari	18	32
Kebumen		
Ayah	8	12
Petanahan	5	10
Cilacap		
Bunton	4	3
Jetis	2	2
Tegal Kamulyan	2	3
Kota Cilacap	2	3

Summary of Documentation

Considering the big number of activities and the limited number of the documenting persons, the team had to prioritized visits. The prioritization was based on the representations of the locations, the various backgrounds of the targeted communities, the thematic activities, and the local facilitators.

Aside from recording the process of the project implementation, the documenter also noted key responses and the comments of the related parties: participants in the project activities, targeted community, local facilitators, working group's members and events organisers.

Lessons learnt and areas for further improvements are related to the management of the local resources, the collaborative management of the project between the Local Government, the community and the non-government organisations, and the application of the locally developed communication technology (modifying loud speakers at the mosques as warning receivers at the community level).



Strategy of Documentation

Five persons were responsible as documenters, and supported by three volunteers. They were divided into three teams: video-film, digital photographic and reporters. The team sometime worked together or separate depending on the prioritized themes and locations of activities.

Significant amount of records were collected during the documentation process. The team compiled the records based on the themes/activities and the locations of the events.

The documenting teams worked flexible, adapting any changes of schedules in the three districts, where changes happened due to the political dynamic at the community.

All records collected have captured important experiences related to the project activities. They will serve as a media for learning in implementing similar activities in other communities – either in Java or in other regions.

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Impressions from the first phase (2006-2008)

“Capacity Building in Local Communities” – the project’s second phase runs from January 2009 to March 2010

INA-TEWS has just been inaugurated, beginning its test phase with the new Decision Support System (DSS). Step-by-step more and more upstream data will be integrated. The current warning scheme will soon be updated. The national and the regional disaster management bodies are just being installed and will need to get ready to take over responsibilities in early warning. More products from hazard, vulnerability and risk assessment will soon be available for the GITEWS Pilot Areas and beyond. National and local actors still face several challenges in the process of further implementing INA-TEWS. Therefore GTZ IS was asked to continue its support in capacity building to local as well as national partners until March 2010, further strengthening implementation in the Pilot Areas and at the same time working towards nationwide mainstreaming of mechanisms and procedures for (local) Tsunami Early Warning.

Development and implementation of mechanism for local Tsunami Early Warning and Preparedness

The continuous technological development and refinement of INA-TEWS during its test phase in 2009 will bring changes in the warning scheme, e.g. format of warnings. GTZ IS will assure that the partners in the GITEWS Pilot Areas will adjust their mechanisms for local Tsunami Warning accordingly and produce updated procedures.

New products from risk- and vulnerability assessments conducted in Padang, Cilacap and Bali need to be integrated into the local preparedness strategies in the three Pilot Areas. The project will support the integration of these products.



In the first phase, GTZ IS supported the local partners to develop mechanisms and procedures for all components of Tsunami Early Warning. In order to fully implement these components – technically as well as institutionally – and build sustainable structures, the project will further accompany its local partners. Part of this implementation process is the frequent testing and adjustment of the developed mechanisms and procedures.

Mainstreaming of results for the benefit of national standards and other tsunami prone communities

In the extension phase, the project will continue to translate the mechanisms and tools developed in the Pilot Areas into guidelines and manuals that will enable other communities in Indonesia to link themselves to INA-TEWS and get prepared.

To spread Tsunami Early Warning to communities all over the Indonesian archipelago the development of a mainstreaming strategy might be considered at national level. The project is ready to support the design and the implementation of such an initiative.

In the Pilot Areas mainstreaming will be strengthened by promoting Public-Private Partnership (PPP) initiatives and inter-district cooperation to extend experiences to neighbouring districts. The integration of Tsunami Early Warning into local disaster risk reduction plans and the new institutional set up will be another essential task.

To increase knowledge and awareness, the project will develop training modules (e.g. for training-of-trainers) and produce adequate media and materials.

Since the Indonesian experience has world wide relevance, lessons learnt and good practices that can be used in other regions of the Indian Ocean and beyond will be documented.

Evaluation of the first phase and planning for the second

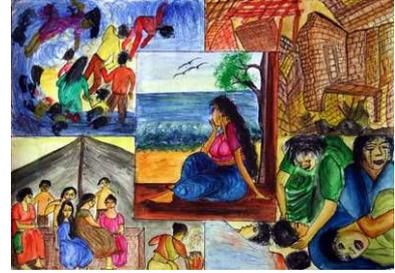
Before the work in the second phase begins GTZ, together with its Indonesian partners, will take a look back at the activities, results and output of the last 2 ½ years.

A German-Indonesian team of two external consultants will evaluate the project in January 2009. The project team will use this opportunity to learn about achievements and challenges through an external “lense”, and discuss evaluation results together with its Indonesian partners at national as well as local level.

Based on the initial concept for the second phase and the evaluation results, the project team will invite international, national and local partners to a Project Review and Planning Workshop, held on 5th-6th January 2009.

The workshop will provide the opportunity to review the project outcome, look ahead and discuss about how the next (and last) 15 months of project activities can be best used to further develop mechanisms for (local) Tsunami Early Warning, build sustainable local-national partnerships and linkages, and mainstream the past experiences from the project as well as other initiatives by Indonesian partners.

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Enhancing Tsunami Risk Awareness Dialogue between Scientists and Public Awareness Practitioners

LIPI through the Office of Earth Sciences representing the Government of Indonesia in cooperation with UNDP Regional Center in Bangkok has hosted a meeting during the ICTW in November 13, 2008, in Bali, Indonesia. The objective of the meeting was to promote a dialogue and interaction among warning centers, scientists, disaster management organizations, and public awareness practitioners (including CBDRM and media practitioners).

More than four years after the tragic 2004 event, many scientists and practitioners believe that most of the tsunami public awareness materials should be updated. This impression is supported by the observation that significant new knowledge about the tsunami risk, i.e. the Indian Ocean tsunami sources and characteristics has been generated, and significant progress on early warning systems has been made, ever since the first post-Aceh Tsunami awareness materials were produced and disseminated.

The participants of the meeting agreed that despite some knowledge gaps regarding tsunami risk among the general public, decision makers and mandated disaster management organizations, the first action should be an evaluation of existing materials as well as their means and channels of distribution; especially looking at effectiveness and impacts.

Other topics discussed during the meeting were: how to improve existing public awareness programs and materials; strengthening capacities in public education and awareness areas by more intensively involving scientists, disaster management officers and public education practitioners; ideas for a concrete action plan for 2009 to address the identified needs.

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Launching of Video "10 minutes to survive" in Yogyakarta

The Indonesian Institute of Sciences (LIPI) facilitated the 4th National Disaster Preparedness Exhibition in Yogyakarta from 24th to 26th October 2008, together with the city government of Yogyakarta. More than 50 organizations participated in the event. The motto of the exhibition was "Partnership, Equality and Togetherness". Beside the science community, local and international NGOs and national institutions participated in the exhibition.



During the exhibition, the four videos on early warning and preparedness were launched by LIPI, GTZ, and UNESCO/JTIC who jointly developed the videos.



GITEWS presentation at DKKV dialogue forum in Offenbach / Germany

The German Committee for Disaster Reduction (DKKV) regularly organizes dialogues between science, practitioners and politics to promote the joint development and implementation of disaster preparedness measures.

The meeting held in November 2008 in Offenbach, Germany focused on "Challenges for Disaster Preparedness in the 21st Century". Thorsten Schlurmann and Harald Spahn introduced the GITEWS Capacity Building approach with a presentation, on "Measures, Strategies and Lessons Learned for Education and Training of Scientists, Partner Organizations and the Community at Risk in the Framework of the Implementation of INATEWS". The presentation was jointly developed together with Michael Siebert.



The DKKV is the German platform within the International Strategy for Disaster Risk Reduction (ISDR).

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