What is Remote Programming?

In contexts where regular access to the program sites are limited or restricted, remote programming methods are a way in which one can continue to ensure accountability of program implementation. In this case from Madagascar, regular access to the program sites was difficult due to the isolated areas and lack of funds to employ field staff. Thus, in this situation, a remote monitoring system was set up involving the communities and program participants themselves. When program participants can play a central role in Community Based Disaster Risk Reduction (CBDRR), the impact of the project became larger.

What did CRS do?

- Adapted vernacular housing designs and technologies to create a disaster-resilient housing design.
- Trained local artisans in the construction of hazard resistant homes.
- Purchased and arranged delivery of material that could not be afforded by the program participants.
- Trained program participants and committees on monitoring the house construction.
- Provided for the construction of 598 homes.
- Trained program participants on the maintenance procedures of the houses.

Background

On February 2012, Madagascar was hit by two cyclones: The intense Tropical Cyclone Giovanna hit the east coast of the island, and the moderate Tropical Storm Irina hit in the north and southeastern coast. The official death toll from the BNGRC (National Bureau of Disaster and Risk Management), dated March 16, indicates 111 people dead, 299 injured, three missing, 332,204 affected, and 55,060 displaced.

The two cyclones caused significant damage in the areas of housing, agriculture, livelihoods, health and education. Families left their usual place of residence and sought refuge in welfare centers or accommodation with their extended families or neighbors. Less than 15 percent of families were able to rehabilitate their homes one month after the passage of the cyclone. Households headed by women or the elderly or disabled were not able to rehabilitate their homes within the next six months. Local materials necessary for the rehabilitation of homes were hard to come by, expensive and beyond the financial capacity of vulnerable families.

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Project Principles

The purpose of the shelter project was to build houses with a strong DRR integration for community-led recovery. All the homes were built with local materials, mainly derived from a local Malagasy plant named “Ravinala” or Travelers Palm. The target program participants were the most vulnerable who had lost their houses after the two storms: the disabled, elderly and pregnant women. The budget covered the construction of 598 houses to be completed with the Food for Work method to pay the artisans.

The success of a project depends on two conditions: the involvement and ownership of the program participants, and an effective quality monitoring and evaluation (M&E) system. This project combined these two conditions. More precisely, the effective participation of program participants and local authorities in M&E can be done at a lower cost and provides a sense of ownership to the participants, which in turn improves sustainability.

“ I am confident for the next hurricane season. My home is of a quality that is resilient to cyclones. I know the need to strengthen every part of the house. I attended and participated in all the monitoring sessions and I am totally satisfied!”

- Project Participant

Delivering a Remote Program

In Madagascar, the team was composed of one DRR & emergency specialist, one M&E officer, two DRR project officers, three technicians and eight community mobilizers from CRS and Diocesans partners. The shelter project duration was three months, aiming for a production rate of 12 houses to be built per week at each site.

In order to make the best use of specialist technical staff, program participants were given responsibility for construction and monitoring aspects of the program. The following mechanisms were put in place to ensure the efficient delivery of safe and strong homes:

• In each village, a program participant targeting committee was established. It included one or two members from the village (either a school teacher or educated individual), who were in charge of monitoring the housing construction.

• In each district, a focal point or community hub was set up, where information was disseminated and materials distributed. Participants could also report any problems to staff members or community mobilizers here.

• The village M&E committee worked together with one community mobilizer (AMS) and the local government/mayor’s office in charge of facilitating the emergency response process.

• Targeting committees assessed quality of construction and provided additional support to community mobilizers. This system optimized CRS’ technical specialists’ time as well as strengthening the technical capacity of local staff, community and program participants.

• CRS provided a detailed work plan for staff members of the project.

• CRS provided an M&E checklist to the targeting committee and to each homeowner to allow them to monitor the progress of their own house.

• CRS worked with local suppliers to deliver construction materials to the villages.

• CRS put in place a contingency plan for vital material supplies.

Program Participants

The program participants must meet the following criteria: homeless due to the storm and unable to rebuild themselves; the disabled, the elderly and pregnant women; and households with large families. The selection of program participants was verified by the targeting committees. The targeting committee was a combined group of village chiefs and selected household representatives.
Challenges

- Because CRS relied on villagers to monitor progress remotely, it had to adapt systems accordingly. CRS simplified the checklist with supporting photographs so illiterate participants understood the key points of monitoring. In addition, monitors were assisted by at least one targeting committee member at the village level.
- Different shelter programming approaches between NGOs operating in the same district created some challenges. The communities tended to make a comparison between the designs and the empowerment approaches. This had repercussions on the coordination of the project.
- Increases in the cost of materials due to high demand forced the CRS team and its partners to reduce the targeted number of structures from 680 to 598.

Storage and Quality
1. Are all the materials stored safely from storm, rain and flood and securely from theft?
2. Are the quality of materials good?

Foundation
3. Is the wood dry?
4. Is oil used to preserve the wood?
5. Have you buried the footing 10 cm deep?
6. Have you used broken rocks before burying the foundation and columns?
7. Are corner bracings at the floor platform connection present?

Structure
8. Diagonal bracings used at four corner columns
9. Diagonal smaller corner bracings used at corners to connect the diagonal bracings
10. All column connections with beam used appropriate parts and not nails
11. All connections with beams and columns using metal straps and nails

Roof
12. Corner bracings used at all corners
13. Metal straps are used to connect the Truss/Triangle with beam
14. All connections between members made with mortise and tenon joints
15. Diagonal technique used to connect the ridge with truss
16. Four corners of beams has corner bracings

 Improvement Items
17. Metal straps are used for wooden connections
18. Ropes are used for connections
19. Wood is preserved at the foundation level with oil and petrol mixture