DEBRIS FLOW BARRIER FOR METIAUT IN TIMOR LESTE

DILI, TIMOR LESTE, INDONESIA

Debris Flow Barriers

Problem

The debris landslide disaster in Metiaut, Dili – Timor Leste was one of the tragic events that struck the area. The landslide not only claimed lives but also caused severe damage to residential infrastructure, including homes and a school located at the foot of the slope. The impact was worsened by the blockage of the main road, Av. de Metiaut, a vital access route connecting areas across Dili. The landslide materials, consisting of rocks and mud, made evacuation efforts and aid distribution extremely difficult.
This event raised awareness of the serious threat posed by debris flows in hilly areas like Metiaut, which are characterized by vulnerable geological conditions and high rainfall. Preventing similar disasters in the future requires careful planning, the application of effective slope control technologies, and a risk-based approach to protect lives and property in disaster-prone areas.

Solution

In response to the landslide in Metiaut, Dili – Timor Leste, Maccaferri Indonesia recommended a Debris Flow System solution using Debris Flow Barriers, FlexMac DT, and PoliMac Gabions. This system is designed to contain and control debris flows, protecting homes and schools.
The solution not only mitigates risks of infrastructure damage and casualties but also looks ahead. Maccaferri will install HelloMac, a sensor-based early warning system, to help communities near the slope stay alert and safe from future landslides. By combining protective structures with monitoring technology, the system offers comprehensive and sustainable protection for local residents.

Client: Ministério das Obras Públicas
Designer / Consultant: Maccaferri Indonesia
Contractor: ELMEJET Unipessoal Lda
Products used (Qty.)

- Flexmac Dt 150 pcs
- Gabions 143 pcs
- Debris Flow Barriers 2 kits

Date of construction: 08/2024 - 03/2025

Google Maps Google Earth



Before Construction



During Construction



Finished Construction

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