

## CULTURES OF KNOWLEDGE AND PRACTICES OF DISASTER RISK MANAGEMENT IN INDONESIA

### Joint Project: Tsunami Risk

Multi-risk assessment and cascade effect analysis in cooperation between Indonesia and Germany  
- Joint research on volcano- and landslide-induced tsunamis

### Why this project?

After the catastrophic tsunami in the Indian Ocean in 2004, Germany helped develop new methods to identify and characterise earthquake and tsunami parameters as part of its humanitarian support. Innovative early warning capacities were established in the region. The system has been in operation in Indonesia since 2011 and successfully incorporated into the warning and decision-making chains several times. Why do tsunamis still occur seemingly without warning, as was the case twice in 2018? These tsunamis followed a cascade of events, such as a sequence of earthquakes and landslides. These chain reactions are to be researched and included in the early warning system. Through research on the socio-culturally and historically evolving context of disaster risk management in Indonesia, and on its actual functioning, the Disaster Research Unit (DRU) critically observes and supports the process.

### Methods

The project follows a sociological approach and is based on qualitative methods, involving case studies of Palu and Anak Krakatau. Preliminary desktop research, expert interviews and participatory workshops form part of the data collection tools. The DRU is also in charge of the processing and consolidation of findings by all German research partners into guidelines and recommendations for action.

### Innovation

As a social science partner, the DRU acts at the interface between (geo)science, operational actors in disaster risk management and society. It develops practice-oriented knowledge and contributes to the scientific discussion, for example in the field of science and technology studies.



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**Duration:** 03/2020 - 02/2024

**Region:** Indonesia

**Coordination:** Helmholtz Centre Potsdam, German Research Centre for Geosciences (GFZ)

#### German partners:

- German Aerospace Center e. V. (DLR)
- Technische Universität Braunschweig (TU-BS)
- Technische Universität Berlin (TU-B)
- Free University Berlin (FU)
- Federal Agency for Technical Relief (THW)

#### Indonesian partners:

- Universitas Indonesia (UI)
- Institut Teknologi Bandung (ITB)
- Universitas Gadjah Mada (UGM)
- Indonesian Institute of Sciences (LIPI)
- Indonesian Agency for Meteorology, Climatology and Geophysics (BMKG)
- National Institute of Aeronautics and Space (LAPAN)
- The Agency for the Assessment & Application of Technology (BPPT)
- National Disaster Management Authority (BNP)

#### Associated partners:

- German Development Institute (DIE)
- Indian Ocean Tsunami Information Centre (IOTIC)

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