

# MAINSTREAMING INTEGRATED DISASTER RISK REDUCTION AND CLIMATE CHANGE ADAPTATION INTO COASTAL URBAN AGGLOMERATION POLICY

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## ● Research problem

Coastal urban agglomerations are especially exposed to the impacts of climate change and disaster risk. In the coming decades, climate-induced extreme events are expected to increase and will continue to affect natural and human systems independently or in combination with other determinants to alter the productivity, diversity and functions of many ecosystems and livelihoods.

The recent tsunami events in Indonesia further highlight the need to build capacity to address tsunami and other coastal hazards, including multi-hazard threats, such as landslides and liquefaction. Climate change and disaster impacts of this type threaten to exacerbate existing vulnerabilities and further entrench development disparities.

## ● How did the research address the problem?

The Global Disaster Resilience Centre at the University of Huddersfield, UK and the Institute of Technology Bandung, Indonesia, have been working together to address these challenges. They have been working with national and regional agencies, including the National Disaster Management Agency (BNPB) and Meteorology, Climatology and Geophysical Agency (BMKG), and the Intergovernmental Oceanographic Commission of UNESCO (IOC-UNESCO) Coordination Group for the Indian Ocean Tsunami Warning and Mitigation System (ICG/IOTWMS).

This collaboration set out to assess existing capacity to tackle these threats, develop more integrated disaster risk reduction (DRR) and climate change adaptation (CCA) strategies, and build capacity to protect centres of economic growth and development outcomes in coastal urban agglomerations, with a particular emphasis on Indonesia.

## ● Project partnership

 University of  
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Global Disaster Resilience Centre  
School of Applied Sciences,  
The University of Huddersfield, UK  
[www.hud.ac.uk/gdrc](http://www.hud.ac.uk/gdrc)



Institute of Technology Bandung  
Indonesia  
[www.itb.ac.id](http://www.itb.ac.id)



United Nations  
Educational, Scientific and  
Cultural Organization  
Intergovernmental  
Oceanographic  
Commission



The project won the 2019 Newton Prize for Indonesia, recognising it as the 'best research / innovation that promotes economic development and social welfare', awarded by the UK's Department for Business, Energy and Industrial Strategy (BEIS), Newton Fund and Global Challenges Research Fund (GCRF).



National Disaster Management Agency  
Indonesia  
[www.bnpp.go.id](http://www.bnpp.go.id)



Intergovernmental Oceanographic Commission of UNESCO (IOC-UNESCO) Coordination Group for the Indian Ocean Tsunami Warning and Mitigation System (ICG/IOTWMS)  
[ioc.unesco.org](http://ioc.unesco.org)

Meteorology, Climatology and Geophysical Agency  
Indonesia  
[www.bmkg.go.id](http://www.bmkg.go.id)

## ● Contact information | Global Disaster Resilience Centre, School of Applied Sciences, University of Huddersfield

### Principal investigators

- Professor Richard Haigh  
[r.haigh@hud.ac.uk](mailto:r.haigh@hud.ac.uk)
- Professor Dilanthi Amaratunga  
[damaratunga@hud.ac.uk](mailto:damaratunga@hud.ac.uk)

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