



Delta Alliance

HSINT02A

Jakarta Climate Adaptation Tools (JCAT)

Background

Jakarta has a long history of flooding. In recent decades, rapid urbanisation, land use change, land subsidence, and the clogging of the city's waterways with garbage and sediments have intensified this problem. Future climate change will further increase the chance of flooding.



Flood risk and climate adaptation

Traditional flood management in Jakarta has mainly focused on reducing the chance of flooding. However, there is a growing recognition of the need for a more integrated flood risk approach, whereby risk is the combination of both the probability of flooding and the consequences (e.g. economic damage and loss of life). Whilst climate change clearly brings new threats to Jakarta, and other delta cities, it also provides an opportunity to plan adaptation measures that reduce flood risk both today and in the future. However, there is lack of scientific knowledge and tools on the impacts of adaptation on flood risk.

Aims and objectives

The overarching objective is to contribute to the development of tools to assess, compare, and optimise options for climate adaptation Jakarta and other delta cities. The aims main aims are:

- To contribute knowledge and capacity building on flood risk, climate change, and spatial planning in Jakarta;
- To improve tools for assisting in decision-making on flood risk adaptation;
- To improve the integration of spatial planning and water management by developing new methods in flood risk assessment and socioeconomic evaluation;
- To assess the impacts of adaptation strategies in terms of costs and benefits in order to assist in identifying good solutions for risk reduction

Consortium and timeframe

Consortium: IVM-VU University Amsterdam, Gadjah Mada University Yogyakarta, Wageningen University, and Bogor Agricultural University. The research will be carried out in close collaboration with LIPI (The Indonesian Institute of Sciences) and stakeholders in Jakarta. A [definition workshop](#) was held in Jakarta on 18 January 2011. A kick-off workshop for the main phase is being planned for autumn 2011 – more information will follow.

Project timeframe: Jan 2010 – Dec 2014

Contact information

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