

**COMMUNITY BASED ADAPTATION TO CLIMATE CHANGE:  
LESSONS FROM SEMARANG CITY**

**THESIS**

A Thesis Submitted to the Master Program in Regional and Urban Development in Partially  
Fulfillment of the Requirements for the Master of Engineering Degree



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**MASTER OF REGIONAL URBAN DEVELOPMENT  
DIPONEGORO UNIVERSITY  
2016**

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## ABSTRACT

*The north coast of Central Java is one of the most vulnerable regions to climate change in Indonesia (Marfai, 2011; Ministry of Maritime Affairs and Fisheries, 2009). Various activities in coastal area also lead to the growth of informal sector that closely related to the growing number of poor people in coastal area. However, permanent migration has not yet been an option for adaptation in dealing with environmental hazard in Java (Handayani, et al., 2015). Therefore, the loss of livelihood and community assets trigger the awareness of stakeholder to help people through Community-based Adaptation (CBA) in Semarang coastal area. CBA is seen as a tailor made approach that can increase people adaptive capacity because local people are more knowledgeable of their local situation. Hence, this approach is promising as it can increase local adaptation and also conserve their area in facing climate change impact. This research aimed to elaborate the CBA in Semarang Coastal Area. The scope area of this research is Tapak Village and Kemijen Village which the two areas regarded as pilot areas of CBA implementation in Semarang. This mixed quantitative-qualitative research using purposive sample in interviewing stakeholders related with the CBA and random sampling for questionnaire. This research also using Gephi 0.9 software and SPSS 17.0 as a tool to analyse the stakeholder relationship towards community awareness. The finding shows that networking helps community group have access to the funding, informal support/advice/guidance and information. Social capital became factor in strengthening community-based adaptation. However sustainability of the activity is also depend on the enabling factor which came from external stakeholder through linking social capital. The sustainability of CBA is also greatly influenced by the presence of local champion in the region and intervention from NGO and University to support their activity. Hence, the existence of networks between community and the relevant stakeholders in both the government and non-government organizations also became one of the supporting factors for the sustainability of community-based adaptation approach in coastal areas of Semarang City.*

**Keywords:** Community Based Adaptation; Networking; Local Champion; Semarang; Coastal Area