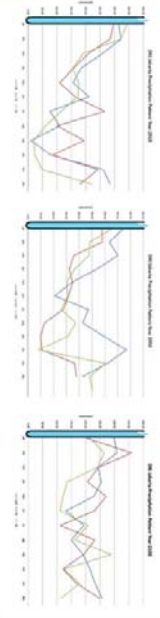


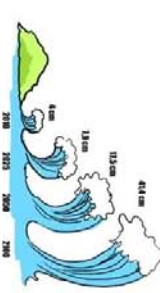
### Temperature Projection in Jakarta City



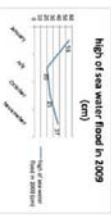
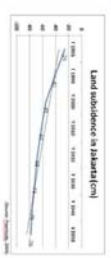
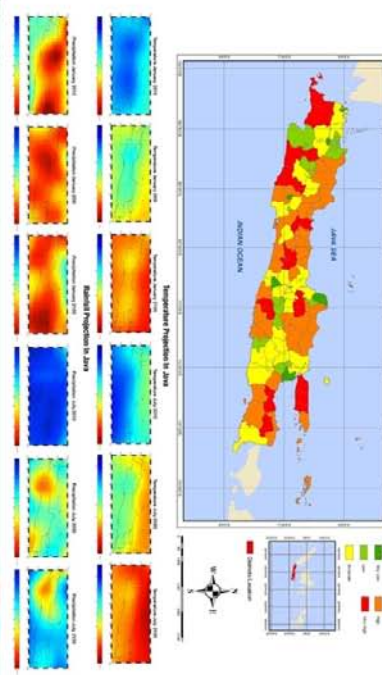
### Rain Fall Projection in Jakarta City



### Sea Level Rise Projection in Jakarta City

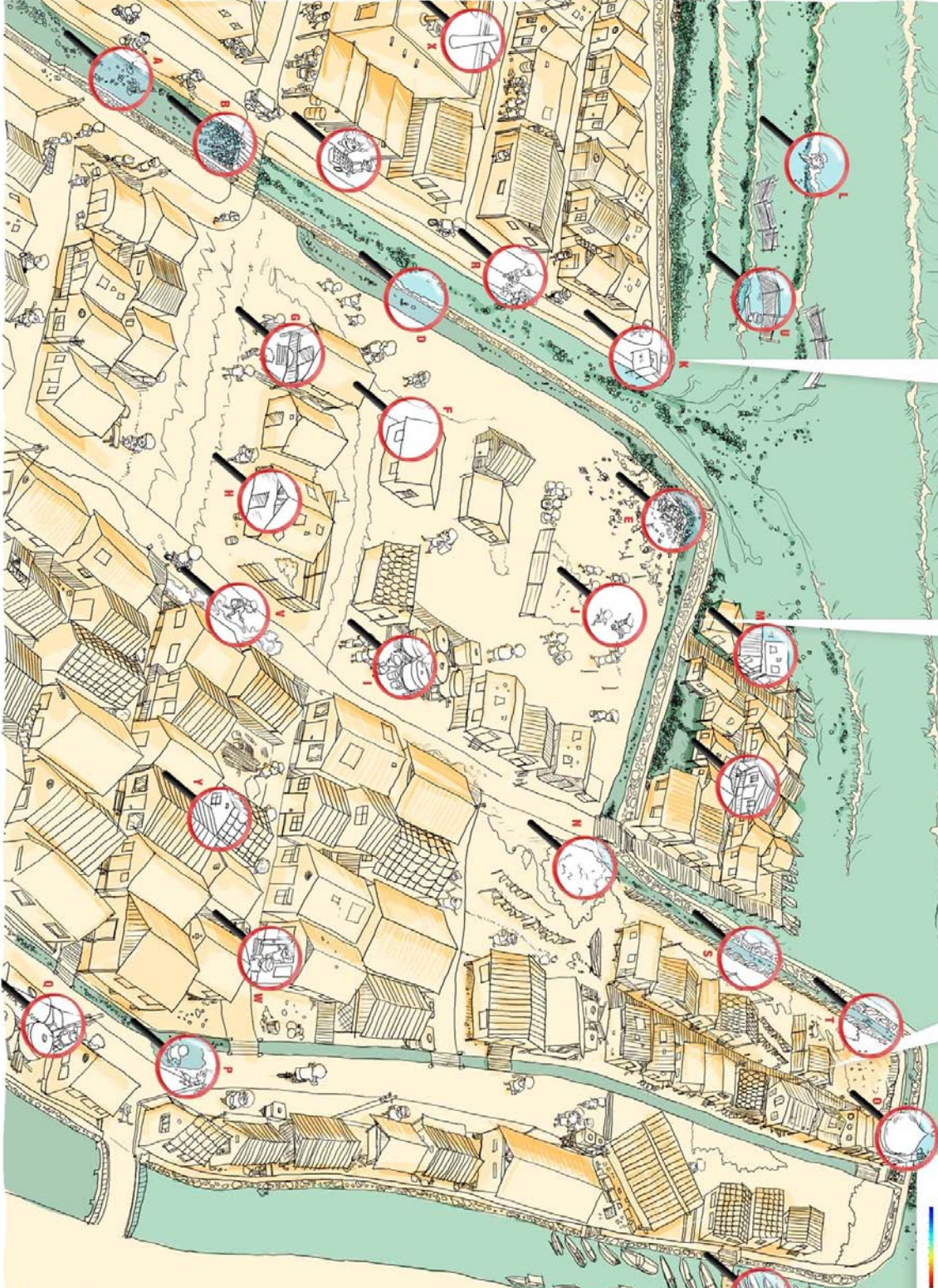


### Climate change vulnerability mapping in Java (particularly on water availability issue)



**Area loss Projection (in Km<sup>2</sup>)**

Year	Area loss (Km <sup>2</sup> )
2010	47
2020	54
2030	61
2040	68
2050	75



# Urban Climate Change

## Living In the Edge

Authors : Fedi Dwirahmadi, Fobby Tantiwa, Muh. Shuid, Yan Firdaus, Siti Badriyah

### Background Research

This research aims to provide a better understanding about climate change risks and adaptation in urban areas in Indonesia, particularly in Jakarta. The research focuses on the impact of climate change on water availability and sea level rise in low-lying coastal areas, as well as the impact of urbanization and land use change on water availability and sea level rise. The research also explores the impact of climate change on the health and well-being of urban residents, particularly those living in low-lying coastal areas. The research is based on a review of the literature and field data collected in Jakarta, Indonesia.

### Legend

- A. Jakarta, population 36.58 million of Jakarta every day 550,000 people and 40% of population of Jakarta 13,200,000 people (BPS, DKI, 2010).
- B. Water level based data to gauging.
- C. Project water level rise, constant of rain water in Jakarta during ceremony (per day water 100%), water loss 0.27% (water level).
- D. Water level consideration is not too about, water comes out from the canal.
- E. Data to base on the ground and the water level rise who are the ground there to built their house outside the area above the sea water.
- F. About 8% of family, have moderate their intention so that they can live the project of sea water level.
- G. About 8% of family, have moderate their intention so that they can live the project of sea water level.
- H. Water level rise has resources to modify their house (1.2% not not needed).
- I. Choice their house to stay in uncertainty environment. The main decision in Jakarta during sea water level rise decision such as: move house, stay in house, and other decision.
- J. Choice their house to stay in uncertainty environment. The main decision in Jakarta during sea water level rise decision such as: move house, stay in house, and other decision.
- K. Economic data (household income) normal water income a 600,000 US \$ per month (household 3 times in a week). Economic loss per household rise.
- L. Economic data (household income) normal water income a 600,000 US \$ per month (household 3 times in a week). Economic loss per household rise.
- M. House under a contract that deal with sea level rise.
- N. House under a contract that deal with sea level rise.
- O. This is the house that is building that very near to the sea, and it is assumed that the house is becoming closer to the sea level every year. (don't know but I assumed that when the sea is shifting of the sea level is rising).
- P. This is the house that is building that very near to the sea, and it is assumed that the house is becoming closer to the sea level every year. (don't know but I assumed that when the sea is shifting of the sea level is rising).
- Q. Water level rise in the water tank.
- R. Bad water of people to move gathering to water canal.
- S. Bad water of people to move gathering to water canal.
- T. Bad water of people to move gathering to water canal.
- U. Economic data (household income) normal water income a 600,000 US \$ per month (household 3 times in a week). Economic loss per household rise.
- V. Economic data (household income) normal water income a 600,000 US \$ per month (household 3 times in a week). Economic loss per household rise.
- W. Family income, community, and other data to the community in Jakarta during sea water level rise decision such as: move house, stay in house, and other decision.
- X. Family income, community, and other data to the community in Jakarta during sea water level rise decision such as: move house, stay in house, and other decision.
- Y. Divided high condition may influence the risk of distribution of various infectious diseases.
- Z. Divided high condition may influence the risk of distribution of various infectious diseases.