

Vulnerabilities and Adaptation for Coastal Community in Pekalongan from High Tide: Using Dissagregrated Gender Analysis

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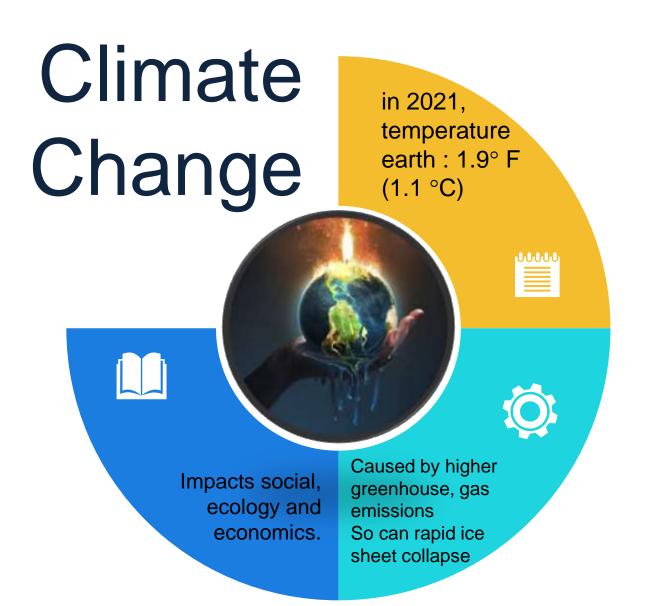
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BACKGROUND



of Economics and Business

Diponegoro University

Coastal systems are sensitive to Climate Change

 In 2021, global sea level set a new record high—97 mm (3.8 inches)

 High-tide flooding is now 900% more frequent than it was 50 years ago.



Background



Many archipelagic states are now experiencing the impacts of sea level rise



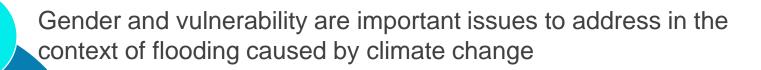
Indonesia => Flood disasters 5233 occured (38.99% of the total natural disasters) until 2015

- sea level rise in Indonesia average of rate 0.6 cm/year
- land subsidence average of rate 4 cm/year

Contribute coastal inundation (flood disaster)

exacerbate current community vulnerabilities and societal inequalities also

It is important to explore the response and adaptation of vulnerability communities that have a low ability to adapt



which are more noticeable in developing countries

Inequalities and marginalization are critical factors of genderbased differences in vulnerability and to adapt

Many assume that the women are most vulnerable

Sources : Anna (2015); .Garai (2015) Cvetkovi´c (2018)

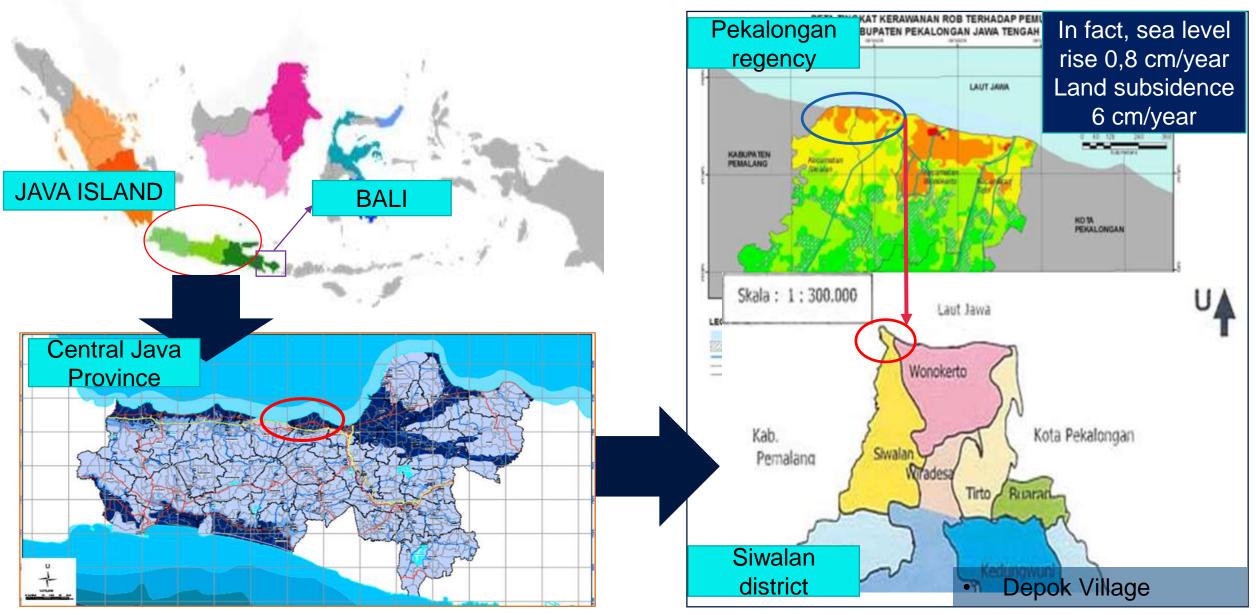
Goals of Research

- To investigates vulnerabilities of Communities the impacts of coastal inundation
- To analyze the role of gender to impacts of coastal inundation
- **To investigate adaptation strategies of communities**



MAP OF STUDY





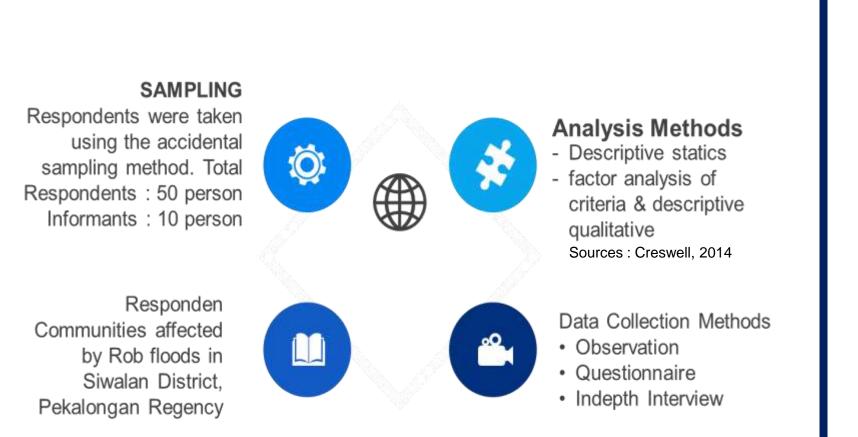








Methods



Indicators

Vulnerabilities

Vulnerability from dimension social, economic, physic, political, human capital, natural and living conditions

The role of Gender

the distribution of power between man and women in a household to coping high tide inundation

Awareness

Individual knowledge in responding to floods

 adaptation
Household adaptability in the face of flooding







Vulnerability









Flooding can have a critical impact on communities either it affected them directly or indirectly

Natural

 Degradation the environment
destroy ecology system
Losses rice farmland, jasmine plantations. fishponds

Physical

 Damaged roads and other infrastructure
Damaging home buildings and home furnishings.

Political

Political tool without bringing adaptation efforts for the long term

Human Capital & Social

 Health risk
Disrupts daily activities
Hindering children education

Economy

 disrupts economic activities
long-term impacts included disrupted cash flow
income loss
Losses livelihood

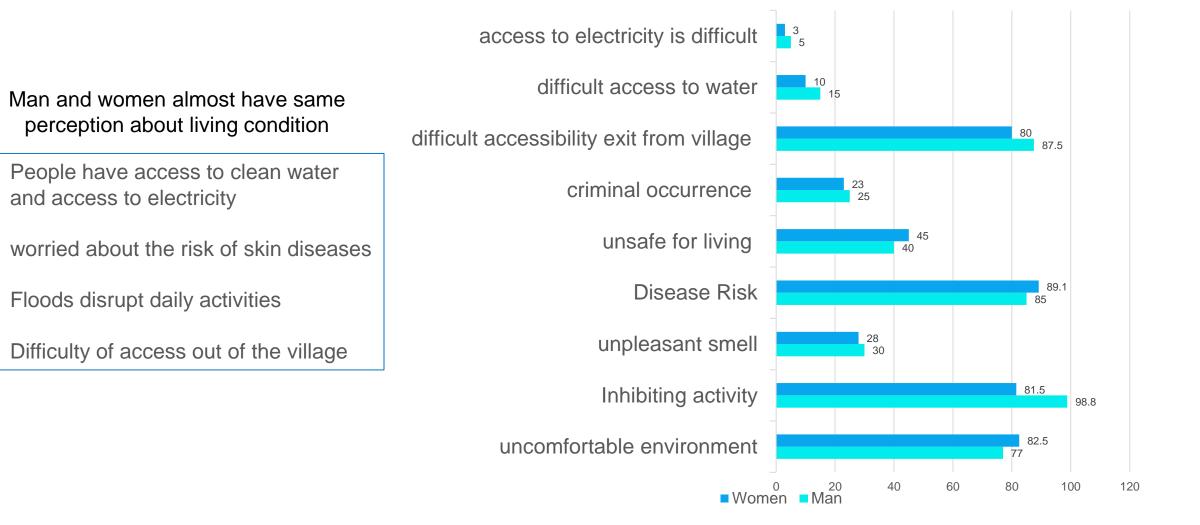
Source : primary data, 2022 (indepth interview & Photovoice)



Vulnerabilities Communities



Perception Living Condition



Man n=25 Women n=25

The Role of Gender



Productive Profile

64% of all respondents	Breadwinner : Man and women
58% of all respondents	Family decision maker : Man Dominance

Domestic Responsibilities

89% of all respondents	Taking care of the children : women dominance
87,2% of all respondents	Preparing food & Cooking : women dominance
94% of all respondents	Washing and Cleaning : women dominance

Disaster preparedness & response pra disaster

87% of all respondents	Building protection : man dominance
56% of all respondents	Knowledge on disaster : man & women
82% of all respondents	Being a member of social organization : Man & Women



n=50 (man n=25 women n=25)

During Disaster

	83% of all respondents	Rescuing family members : Man Dominance
	68% of all respondents	Rescuing assets : man dominance
	72% of all respondents	Basic needs fulfulment : man dominance
Post Disaster		
	74% of all respondents	Cleaning the house : women
	87% of all respondents	House renovation : man dominance
	56% of all respondents	Living cost : man & women dominance
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 Women have the double burden (breadwinner and responsibilities in doing all the domestic job

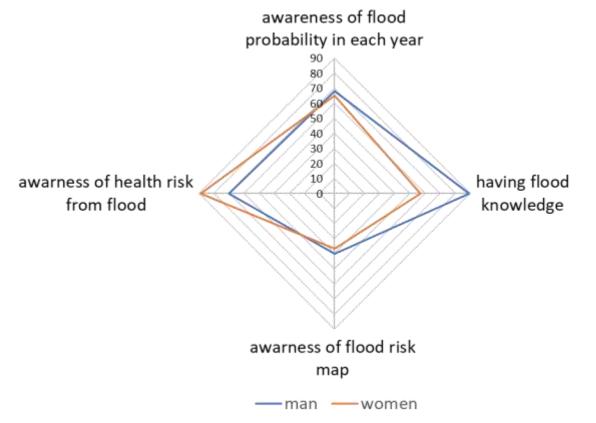
 Also Man have double burden are responsibilities disaster preparedness, rescuiring during disaster, post disaster and breadwinner





Adaptation Communities

Risk Disaster Awarness

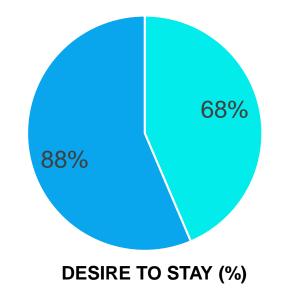


Desire to stay or migrate

The majority of people choose to stay in coastal inundation area

> There are fewer people to choose to stay because they have an access to education or a job than women

Women have the responsibility to carry out reproductive roles



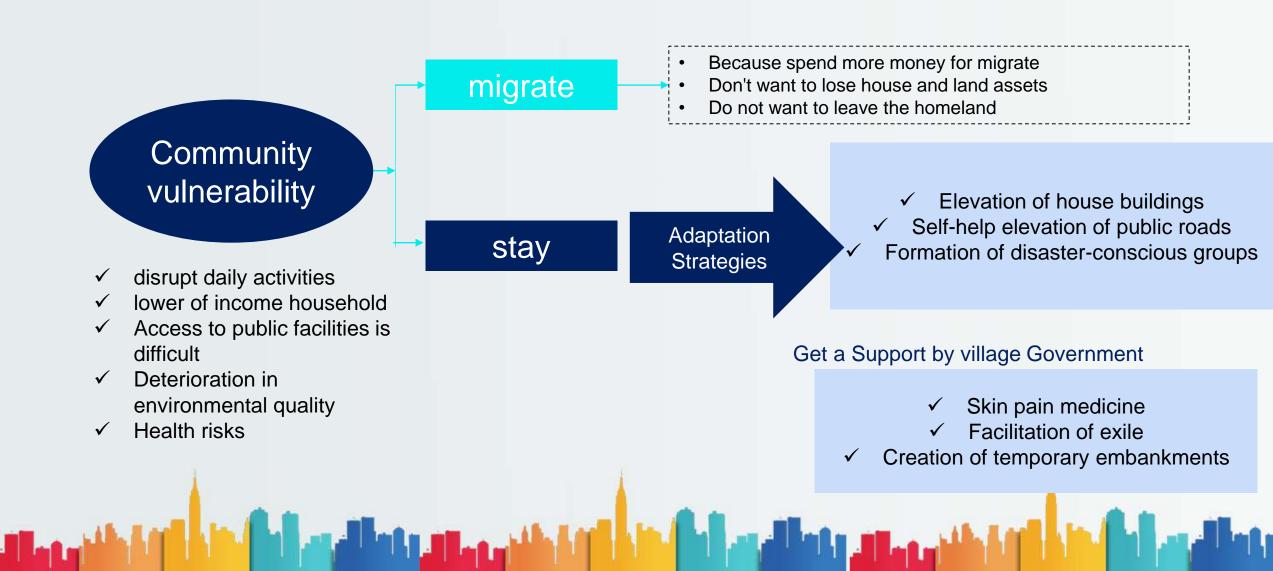
man women

Man n=25 Women n=25





Community Adaptation Efforts







Conclusion

- Women and Man have double burden of disaster preparedness, pra disasters, during disaster and post disaster.
- Women more vulnerable than man cause not have access to education and job, so women dependent with man for adaptation



Coastal inundation impacts to capital dimension of human

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- Although people lose access to capital, both natural, economic, physical, but most of respondents choose to stay living in coastal inundation area
- The communities independent to coping the disaster

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Keywords

OMen UWomen □Hide tide **Floods** Unerabilities Adaptation