COMMUNITY PERCEPTIONS ON THE IMPACTS OF COASTAL DEVELOPMENT IN PANTAI KLEBANG, MELAKA

BY

MAISARAH BINTI ALIAS

A dissertation submitted in fulfilment of the requirement for the degree of Master of Urban and Regional Planning

Kulliyyah of Architecture and Environmental Design International Islamic University Malaysia

FEBRUARY 2014

ABSTRACT

This paper presents the perception of local communities regarding coastal development that is growing rapidly along Pantai Klebang, Melaka. Coastal development started many years ago and the development includes commercial buildings and public realm for recreational activities. However, most of the commercial buildings are left vacant and the new areas have not functioned as planned. These developments contribute to the changing socio-economic of communities living near the beach. This research also focuses on the socio-economic impacts of coastal development on local communities. A convenient sampling of 100 sets of questionnaires was distributed to local communities in Pantai Klebang, Melaka. The Relative Important Index (RII), Spearman test and also Chi-square test were selected to correlate the relationship between variables. The results demonstrate that coastal development along Pantai Klebang increases job opportunities for the communities, especially for hawkers but it also affects them negatively as it contributes to social problems, especially among teenagers. Besides, the result also shows that there is significant relationship between some of the demographic characteristics of respondents and perceptions on the impacts of the coastal development. Further analysis and discussion show that some issues can be solved by improving the main road, increasing safety and security, encouraging effective public participation in decision-making, and having public awareness campaigns.

ملخص البحث

تبحث هذه الدراسة تصورات المجتمعات المحلية على ساحل تطوير المزدهر على طول كليبغ، ملاك . بدأت التنمية الساحلية قبل عدة سنوات والتنمية بما في ذلك المباني التجارية والجال العام للأنشطة الترفيهية. ومع ذلك، يتم ترك معظم المباني التجارية فارغة ومجالات جديدة حفرها لا تعمل كما هو مخطط لها . المساهمة في السكان الاجتماعية والاقتصادية الذين يعيشون بالقرب من الشاطئ. وتركز هذه الدراسة أيضا على الآثار الاجتماعية والاقتصادية للتنمية الساحلية على الجتمعات المحلية. ثم توزيع 100 مجموعة من الاستبيانات للمجتمعات المحلية في شاطئ كليبغ، ملاك. وقد تم اختيار مؤشر هام النسبية (RIIوارتباط سبيرمان (Spearman) ووجى سكوير (Chi-square) لربط العلاقة بين المتغيرات. وتشير النتائج إلى أن التنمية الساحلية على طول شاطئ كليبغ، ملاك زيادة فرص العمل، ولا سيما للبائعين، ولكنه أيضا يؤثر عليهم سلبا حيث تساهم في المشاكل الاجتماعية، وخاصة بين المراهقين. وعلاوة على ذلك، فقد بينت النتائج أيضا أن هناك علاقة بين بعض الخصائص الديموغرافية هام من المشاركين وتصور تأثير التنمية الساحلية. وأظهر مزيد من التحليل والمناقشة أن بعض القضايا يمكن حلها عن طريق زيادة الطريق الرئيسي، وتحسين السلامة والأمن، وتعزيز مشاركة الجمهور الفعالة في صنع القرار، وحملة التوعية العامة.

APPROVAL PAGE

I certify that I have supervised and read this study and that in my opinion, it conforms to acceptable standards of scholarly presentation and is fully adequate, in scope and quality, as a dissertation for the degree of Master of Urban and Regional Planning.		
	Rustam Khairi bin Zahari Supervisor	
I certify that I have read this study and that in my opinion, it conforms to acceptabl standards of scholarly presentation and is fully adequate, in scope and quality, as dissertation for the degree of Master of Urban and Regional Planning.		
	M. Zainora binti Asmawi Examiner	
This dissertation was submitted to the Department of Urban and Regional Plannin and is accepted as a fulfilment of the requirement for the degree of Master of Urba and Regional Planning.		
	Mariana Bt. Mohamed Osman Head, Department of Urban and Regional Planning	
This dissertation was submitted to the Kulliyyah of Architecture and Environmental Design and is accepted as a fulfilment of the requirement for the degree of Master of Urban and Regional Planning		
	Khairuddin Bin Abdul Rashid Dean, Kulliyyah of Architecture and Environmental Design	

DECLARATION

I hereby declare that this dissertation is the result of my own investigations, excep-			
where otherwise stated. I also declare that it has not been previously or concurrently			
submitted as a whole for any other degrees at IIUM or other institutions.			
Maisarah binti Alias			
Signature Date			

INTERNATIONAL ISLAMIC UNIVERSITY MALAYSIA

DECLARATION OF COPYRIGHT AND AFFIRMATION OF FAIR USE OF UNPUBLISHED RESEARCH

Copyright © 2014 by Maisarah binti Alias. All rights reserved.

COMMUNITY PERCEPTIONS ON THE IMPACTS OF COASTAL DEVELOPMENT IN PANTAI KLEBANG, MELAKA

No part of this unpublished research may be reproduced, stored in a retrieval system, or transmitted, in any form or by any means, electronic, mechanical, photocopying, recording or otherwise without prior written permission of the copyright holder except as provided below.

- 1. Any material contained in or derived from this unpublished research may only be used by others in their writing with due to acknowledgement.
- 2. IIUM or its library will have the right to make and transmit copies (print or electronic) for institutional and academic purposes.
- 3. The IIUM library will have the right to make, store in a retrieval system and supply copies of this unpublished research if requested by other universities and research libraries.

Affirmed by Maisarah binti Alias	
Signature	 Date

This thesis is dedicated to my parents,

Mak & Baba

Who always encourage me through ups and downs, also the one who introduced me to 'ilm of dunyah and akhirah.

ACKNOWLEDGEMENTS

Bismillahhirrahmannirrahim.

In the Name of Allah, the Most Beneficent and the Most Merciful. Alhamdulillah, all the praises and gratitude to Allah the Almighty for His grace and blessing for giving me the strength to complete this dissertation.

My sincere appreciation and special thanks goes to my supervisor, Dr Rustam Khairi Zahari for his guidance, understanding, patience and advice he has provided throughout my time as his student. I have been extremely lucky to have a supervisor who cared so much about my work, and who responded to my questions and queries so promptly. Special thanks also to Dr Norzailawati Hj. Mohd. Noor for her guidance and knowledge. I would also like to extend my gratitude to all lecturers in Master of Urban and Regional Planning, who have taught and encouraged me for what I achieved today.

I would also like to thank my family, my support system, especially to my parents, Alias bin Ibrahim and Norliah binti Ahmad for their strong support, their love and care for me through thick and thin. Not to forget my other three siblings, Mohd Zaily Alias, Maizura Alias and Mazlinda Alias for their advice and entertain me during my pressure time. I want to express my gratitude also to my niece and nephew, Nur Bussaina Mohd Zaily and Ahmad Azhad Abd Mutalib, and hopefully my achievement will make them motivate to study hard in their future. InsyaAllah

Completing this work would have been more difficult without the support and friendship provided by the other members especially 'Atiqah Nadiah Mohamad Hanafiah, Nurul Izati M. Bakri, Siti Radhiah Merzuki, Farhana Ramli, Nor 'Adilah Habsirun and my other members in postgraduate studies. I am indebted to them for their help.

Lastly I would like to thank my best friends from IIUM, ex-SKB and ex-MRSM who always entertain me during my hard time. It would be impossible to acknowledge all the names, but believe me, I thank you all for your support and may Allah bless all of you. Ameen.

Wassalam.

TABLE OF CONTENTS

Abstract	ii		
Abstract in Arabiciii			
Approval Pageiv			
	Pagev		
	Pagevi		
100	vii		
	gementviii		
	lesxiii		
	ıresxvi		
<i>8</i>			
CHAPTER	R 1: INTRODUCTION		
1.1	Introduction		
1.2	Background of study2		
	Problem statements		
1.4	Research questions6		
1.5	Aim and objectives6		
1.6	Significance of study7		
1.7	Limitation		
1.8	Structures of thesis/project paper8		
	Conclusion		
CHAPTER	R 2: LITERATURE REVIEW11		
2.1	Introduction		
2.2	The definition and terminologies		
	2.2.1 Coastal area (zone)		
	2.2.2 Development		
	2.2.3 Coastal development		
2.3	Relationship between development with the social and economic		
	impacts to local community		
	2.3.1 Social aspects		
	2.3.2 Economic aspects		
2.4	Activities at coastal area		
2.5	Integrated coastal management		
2.6	Community perceptions regarding coastal development		
	Case study: Pantai Cenang, Langkawi		
	2.7.1 Background of Pantai Cenang		
	2.7.2 Coastal development in Pantai Cenang		
	2.7.3 Impact of coastal development		
2.8	Case study: North West Coast Australia		
0			
	·		

2.9	Conclusion	0
CHAPTE	R 3: RESEARCH METHODOLOGY3	1
3.1	Introduction	1
3.2	Methodology and Research Phases3	1
3.3	Data collection	3
	3.3.1 Primary data	3
	3.3.2 Secondary data	5
3.4	Data analysis	5
3.5	\mathcal{E}	
	3.5.1 Location	
	3.5.2 Rational of the site selection	
3.6	Conclusion4	.5
CHAPTEI	R 4: DATA ANALYSIS AND FINDINGS4	6
4.1	Introduction4	6
4.2	Part A: Respondent's background	6
	4.2.1 Gender	
	4.2.2 Age	8
	4.2.3 Ethnicity	.9
	4.2.4 Marital status5	0
	4.2.5 Occupation5	1
	4.2.6 Highest level of education	
	4.2.7 Monthly salary5	
	4.2.8 Length of stay5	4
4.3	Part B: Community perception on the coastal development in	
	Pantai Klebang5	
	4.3.1 Concern about the coastal development	
	4.3.2 Opinion on the coastal development in Pantai	
	Klebang	
	4.3.2.1 Rank of significant perceptions on coastal	
	development using Relatives Importance Index	o'
	(RII)5 4.3.3 Community perceptions for a better coastal	
	development	
1.1	Part C: Social	
7.7	4.4.1 Social impacts of coastal development in Pantai	J
	Klebang	:3
	4.4.1.1 Rank of significant perceptions on social impact	J
	of coastal development in Pantai Klebang using	
	Relative Important Index (RII)6	
	4.4.2 Sufficient space for recreational activities	
	4.4.3 Types of social problems	
	4.4.4 Impacts of social problem on respondents' activities 7	
	4.4.5 Community perceptions on how coastal development	
	affecting social problem and respondents' lifestyle	

4.5	Part D	: Economic	73
	4.5.1	Economic impacts of coastal developme	ent in Pantai
		Klebang	73
		4.5.1.1 Rank of significant perceptions	on economic
		impacts of coastal development in P	antai Klebang
		using Relative Important Index (RII)75
	4.5.2	Working in Pantai Klebang	77
	4.5.3	Types of work	
	4.5.4	Duration of working in Pantai Klebang	
	4.5.5	Impacts of coastal development	
	4.5.6	Obtaining benefit from coastal development.	
	4.5.7	Community perceptions on how coastal	
		affecting economy and respondents' occupat	-
4.6	Hypot	hesis testing	
	4.6.1	Spearman's Rho Correlation Test	
		4.6.1.1 The relationships between the	
		background and their perceptions of	-
		of coastal development in Pan	
		Melaka	_
	4.6.2		
		4.6.2.1 Chi-square Test for 'Age' and	
		Benefits from the Coastal Developm	
		4.6.2.2 Chi-square Test for 'Gender' and 'S	
		Proposal for a Better Coastal Develo	
4.7	Summ	ary of findings	
		usion	
CHAPTEI	R 5: C	ONCLUSION AND RECOMMENDATION	N 97
5.1	Introd	uction	97
5.2	Summ	ary of findings	97
		nmendation based on summary findings	
		Physical recommendations	
		5.3.1.1 Improve the main road to enter the	
		development	
		5.3.1.2 Increase safety and security measure	
		Klebang	
		5.3.1.3 Plant more trees and landscape	
	5.3.2	Non-physical recommendations	
		5.3.2.1 Public participation in decision-mak	
		5.3.2.2 Public awareness campaign	_
		5.3.2.3 Promoting and marketing events	
		Promote local products to local mark	
5.4	Direct	ions for future research	
		usion	

REFERENCES	108
APPENDIX I : QUESTIONNAIRE SURVEY	114
APPENDIX II:CALCULATION FOR RELATIVE IMPORTANCE	
INDEX (RII)	120

LIST OF TABLES

Table No.		Page No.
2.1	Themes and strategies for management of coastal zone	24
3.1	Likert scale	36
4.1	Distribution of respondents according to gender	47
4.2	Distribution of respondents according to age	48
4.3	Distribution of respondents according to ethnic	49
4.4	Distribution of respondents according to marital status	50
4.5	Distribution of respondents according to occupation	51
4.6	Distribution of respondents according to highest level of education	52
4.7	Distribution of respondents according to monthly salary	53
4.8	Distribution of respondents according to length of stay in Pantai Klebang	54
4.9	Distribution of respondents according to concern about the coastal development	55
4.10	Respondents' perception level on coastal development in Pantai Klebang	57
4.11	Overall rank perceptions on coastal development	59
4.12	Respondents' perceptions level for social impacts of coastal development in Pantai Klebang	64
4.13	Overall rank perceptions level on social impact of coastal development in Pantai Klebang	66
4.14	Sufficient space for recreational activities	68
4.15	Distribution of respondents according to the impacts of social problem on respondents' activities	70
4.16	Respondents' perceptions level for economic impacts of coastal development in Pantai Klebang	74

4.17	Overall rank on perceptions level on economic impacts of coastal development in Pantai Klebang	76
4.18	Distribution of respondents who are working in Pantai Klebang	77
4.19	Distribution of respondents according to types of work	78
4.20	Distribution of respondents according to duration of time working in Pantai Klebang	79
4.21	Distribution of respondents according to the impacts of coastal development on respondents' working area	80
4.22	Distribution of respondents according to obtaining benefit from coastal development	81
4.23	Guilford's rule of thumb	84
4.24	Spearman's Rho: Level of education and perception on coastal development bring bad influence to community	86
4.25	Spearman's Rho: Level of education and perception on coastal development increase the cost of living of community	87
4.26	Spearman's Rho: Level of income and perceptions on coastal development gives positive impact to community	89
4.27	Chi-Square Tests for age of respondents and community's perception on obtaining benefits from the coastal development	91
4.28	Chi-Square Tests for gender of respondents and perception on supporting the proposal for a better coastal development perception	93

LIST OF FIGURES

Figure No.		
2.1	Boundaries for the coastal zone	12
2.2	Socio-economic process and implications	15
2.3	Activities at coastal area	20
2.4	Impacts from coastal activities	22
2.5	Integrated Coastal Zone Management (ICZM) cycles	23
2.6	Developments in Pantai Cenang	28
2.7	Entrepreneurial activities by local community in Pantai Cenang	28
3.1	Flow of the research	32
3.2	Location of Melaka	37
3.3	Location of Pantai Klebang	39
3.4	Proposal map for Pantai Klebang	41
3.5	Study area at Pantai Klebang	42
3.6	Site area: Pantai Klebang	43
3.7	Committed development of Pantai Klebang	44
4.1	Reason for the concern	56
4.2	Community perceptions for a better coastal development	61
4.3	Main road to enter the new coastal development	61
4.4	Rubbish at certain places of coastal development	62
4.5	Traffic congestion in Pantai Klebang	65
4.6	Types of social problems	69

4.7	Community perceptions on how coastal development affecting social problems and lifestyle	71
4.8	Community perceptions on how coastal development affecting economy and respondents' occupation	82
5.1	Proposed location for lamp post	100
5.2	Proposed landscape	101
5.3	Proposed location for landscape	102
5.4	Main roles in coastal management	103
5.5	Traditional event such as rewang activities that using local products	106

CHAPTER ONE

INTRODUCTION

1.1 INTRODUCTION

The coastal development in Malaysia developed enormously since decades ago. The development has made the coastal area as the main area for the commercial and recreational area. Most of the state capitals and many urban growths for commerce and industry are located within the coastal zone. Further evidence of this is that almost 40% of the population in Peninsular Malaysia work and live within the villages, towns, and the cities which located near to the coastal area (National Physical Plan of Coastal Zone, 2010).

Growing coastal populations have accompanied by new infrastructure for manufacturing, transportation, energy processing and consumption, as well as waste disposal. As mentioned by Hinrichsen (1998), population along the coastal are growing rapidly, which 3.2 billion people lives and works within 200 kilometres along the coastal strip while 4 billion people were found within 400 kilometres of a coast. Coastal area also becomes part of tourism spot because this area has much potential to be developed.

Despite well designed mitigation measures and monitoring programs put in place by some developers and government without a holistic and long term management approach, ecological sustainability is unlikely to be achieved and limited information is available on the full environmental impact of these large scale developments on marine ecosystems (Khan et al., 2008).

This research is focusing on community perceptions on the impacts of coastal development to social and economic in Pantai Klebang, Melaka. This research based on the perspective and opinion of the local people of the study area.

1.2 BACKGROUND OF STUDY

Since the early 1970's with the Brundtland Report and the World Summit on Sustainable Development, major global initiatives have advanced principles, goals, timelines and targets for managing the issues facing the ocean and coasts. It also listed aspirations cutting across the environmental, social and economic pillars of sustainable development (IOC, 2011).

According to Sharifah (1992), Malaysia has a long coastline and associated coastal zone of about 4800km. Its marine waters consist of a continental shelf of 307 (km2) and an Exclusive Economic Zone of 450,000 km2. This coastal zone area is one of the most valuable assets to the states and country. It is the most bio-productive area for marine and related life, fish and wild life. Besides that, it also provides a gateway for the commercial world and inland trade, port facilities, industry, oil wells and power plant.

As mentioned by Nor Aslinda et al. (2004), a lot of economic activities in the coastal area of Malaysia are for urbanization, recreation and eco-tourism, fisheries, aquaculture and oil gas exploration. These activities flourish because coastal area in Malaysia has a unique and special socio-economic and also important to the environment.

It is reported that about 70% of the total population live in the coastal zones of Malaysia. There are 22 urban settlements along the coastline with population ranging from 10, 000 to 300,000 (Shahrizaila, 1993). The population or community who live near to the coastal area will get the most implications from any coastal developments.

Coastal developments in Melaka are under the supervision of Melaka River and Coastal Development Corporation Enactment 2005. The developments consist of the embankment of 22.5 hectares, which reclamation works along the Melaka coastline has reached nearly one third of the total coastline of 96 km.

The beach of Melaka began its reclamation from the mid 1980s with the development of Melaka Raya area. Subsequent reclamation made around 1998 with the construction of Melaka Island, twin-made island of 40 hectares, which is the first in Malaysia. The coastal area at Pantai Klebang is also part of this development and the development of the island which cost RM 2 billion includes the construction of 1518 units of shop offices, 92 units of bungalow lots, 1012 condominium and hotel units, central jetty, commercial and office complex.

The inclined of demands from human itself towards the coastal area causes too many impacts either positive or negative to social and economic of the local community. In order to get a better coastal development, good proposal and research regarding the impacts to socio-economic should be provided for the community.

1.3 PROBLEM STATEMENTS

Coastal can be beneficial to authority and also developers, thus they developed the coastal zone as it gives pleasure and tranquility to people who come there. Coastal area also gives benefits to the local community as the area may generate more income to them. Coastal development is growing rapidly lately along Pantai Klebang and the development including commercial buildings and development of the public realm for recreational activities.

Hotels were built-up, but most of them are in poor maintenance and services. Shop lots also built up at the new coastal area that includes cafeteria, souvenirs shops, and small-scale hotel. However, most of the commercial buildings were left vacant because of the location. They were located at the very end of the coastal zone and people cannot see the commercial buildings.

The new reclamation area did not function as planned especially at the area for Melaka Island Development. This island project also includes Pantai Klebang itself because the projects started from Bandar Hilir up to Pantai Klebang, and Tanjong Keling. Melaka Island project not only failed to be executed, but it is also more frustrating. This is because, the negative effects also implicated the surrounding area. Ongoing land reclamation along the coast which is the largest in Malaysia gives impacts on many sectors.

Coastal development projects forced the fisherman to leave their economic activities, also damaging the ecology and coastal seas. In all these areas, there are a total of 9 base fishing boats has been damaged by these developments. This involved a total of 250 heads of families who are depending on fishing and shrimp paste, also 'cencaluk geragau' on the coast (New Straits Time, 1997).

As mentioned by Arthur (2005), coastal management is very important as it gives benefits to both authority and also local people because good management at the coastal can create better perceptions especially tourists. In many countries, centralized management of the coastal area and sustainable development has not highlighted on coastal management and also coastal development. The management towards a better coastal development was used by a different group of people which linked between local communities and government, also the private sectors.

These developments contribute too many problems especially towards community who live near the beach because they are the group of people who get the impacts from the coastal development. Thus, this study investigates the impacts of coastal development to social and economic in the study area.

1.4 RESEARCH QUESTIONS

Based on the problems discussed, these are possible research questions that could be identified for the study of impacts of coastal development in Pantai Klebang, Melaka.

- i) What are the community perceptions towards coastal development in Pantai Klebang?
- ii) How coastal development can give implication to social and economic of local community?
- iii) What can be recommended and suggestions to improve the coastal development?

1.5 AIM AND OBJECTIVES

This study aims to identify the community perception on the implication of coastal development. Based on the research questions above, it can be translated into these objectives:

- To study community perceptions regarding coastal development in Pantai Klebang.
- ii) To analyse the social and economic impacts of coastal development in Pantai Klebang towards the community.
- iii) To propose recommendations for the local authority, private sector and the public in order to improve coastal development in Pantai Klebang.

1.6 SIGNIFICANCE OF STUDY

The output for this research comes out with solutions to improve the coastal development in Pantai Klebang, Melaka.

The first contribution of this study is to the community who are living near to study area because this research leads to a better social living of community and also their economic growth despite from the rapid growth of coastal development. Second contribution is that it will provide recommendations for a better coastal development in the study area.

Besides that, the local can get the information about coastal development in the study area and future understanding about its implications to social and economic. With that, local community will become more aware about the new coastal development in coastal area such as accommodations, public facilities, infrastructure and utilities.

As for the academician, they have the opportunity to improve the research findings by extending the research in a broader scale such as from the economic and social aspects where they can have more samples to be taken as a measure on how development is harming their surroundings; physically and mentally.

1.7 LIMITATION

The study concentrates only on the community's perception of the coastal development at the study area which covering social and economic aspects in Pantai Klebang, Melaka. In order to complete this study, there are certain limitations throughout the journey. The limitation can be reduced by increasing the number of sample (respondents) because the more sample give more accurate data collection.

In order to collect the data, researcher has to deal with the respondents. However, there are certain respondents who are not giving full co-operation during data collection. The durable of time of this thesis is seven months, which give the researcher limitations in term of data collection and accuracy of the data. Another limitation is about financial because this paper is self sponsored research and the researcher has to use the existing financial source. The cost for this paper includes the cost for the site visit, questionnaire and many more.

1.8 STRUCTURE OF THESIS/PROJECT PAPER

There are five chapters presented in this research paper. Chapter 1 explained about the background of the research which is regarding the implications of coastal development in Pantai Klebang, Melaka. This research paper also has explained about the coastal development in Malaysia and Melaka.

In Chapter 1, the researcher listed the research questions based on issues and problems in the study area. The researcher has come out with the aim and objectives that need to be achieved throughout this research paper after constructing these research questions. Then the researcher has stated the significance of the study which local community and academician can gain knowledge regarding this topic when reading this research paper. The researcher also highlighted the limitations of this study during data collection, the durable of time and financial. Last but not least is the structure for this paper.