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Strategy to Maintain Hading-Hoba Mulung in Capture Fisheries Activities In Pantar Barat District, Alor Regency

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Abstract- One form of local wisdom in the management of natural resources in coastal and marine areas that is still running today in Alor Regency is *Mulung* in the customary area of the Baranusa Kingdom, West Pantar District, which had been lost for decades. *Mulung* is a local wisdom of the Baranusa community in the form of a system of regulating the use of marine resources on a regular basis with the aim of maintaining the sustainability and sustainability of marine resources within a certain period of time agreed by the Customary Council and the King. The research has been carried out from January to March 2021. The aim is to analyze the strategy to maintain the existence of *Hading-Hoba Mulung* in Alor Regency. The research method is a qualitative descriptive survey and SWOT analysis. The results showed. Strategies to maintain the *Hading-Hoba Mulung* regulations in Alor Regency include: (1) Strengthening the *Hading-Hoba Mulung* customary institutions, (2) Development of fishing technology, (3) Development of fishery support facilities (TPI, Ice Factory) and access to marketing, (4) Community empowerment through socialization/extension on fisheries related to customary and government regulations, (5) Strengthening supervision activities by traditional institutions and the government in the *Mulung* area.

Index Terms- Hading-Hoba Mulung, capture fisheries, strategy.

I. INTRODUCTION

Management of fishery resources involving community institutions is a process of giving authority, responsibility and opportunity to the community to manage their fishery resources by first defining their needs and desires, goals and aspirations [1]. One form of fishery management that involves community institutions, namely through the value of local wisdom or better known as the customary rights of the sea, is used by the community to survive in an environment that is integrated with the belief system, norms, culture that are expressed in the traditions adopted for a period of time, which is old.

Alor Regency has the potential to develop marine fisheries with capture fisheries production of 0.41 percent from 2017 with a total of 9,398 tons to 9,437.3 tons in 2018. Meanwhile, aquaculture increased 58.66 percent from 348.1 tons to 551.5 tons in 2018. Besides the potential for fisheries, clusters of large

and small islands as well as the natural beauty of the underwater world have the potential to be developed as marine tourism objects [2].

One form of local wisdom in the management of coastal and marine natural resources that is still running today in Alor Regency is *Mulung* in the ulayat area of the Baranusa Kingdom, West Pantar District. *Mulung* comes from the local language Baranusa which means prohibition. *Mulung* is a local wisdom of the local community in the form of a system for regulating the use of marine resources on a regular basis with the aim of maintaining the sustainability and sustainability of marine resources within a certain period of time agreed by the Customary Council and the King. In the past, the Customary Council and the King agreed to manage the territorial waters by carrying out the *Hading Mulung* (closing the prohibited area) and *Hoba Mulung* (opening the prohibited area) stages. The marine resources agreed to be managed with *Mulung* include clams, snails, lola, sea cucumbers, reef fish and pelagic fish. Along with the times, the *Mulung* tradition has begun to fade and even disappear. So far, there have been three implementations of *Mulung*. The first was during the royal era until around the 1970s until 1977. The level of community compliance with this regulation was quite high. The local community also believes that natural law will apply to anyone who violates the *Mulung* rules, namely the violators will be eaten by crocodiles [3]. Second, in the 1990s, community compliance began to weaken and *Mulung* was no longer implemented and obeyed by the people of Baranusa. One of the causes is the factor of people's food needs which continue to increase due to population growth. The modernization of mindset is also the cause of people starting to leave traditional cultural traditions. The loss of the order of the customary council is due to the migration of the population so that there is no longer regeneration of the customary council and the weakness of supervision. Some of these factors tend to have the potential to weaken and even eliminate *Mulung's* local wisdom. Third, on 31 October 2016 *Mulung* was revived by the Customary Council and the King after more than 20 years of not being enforced.

This study aims to analyze the strategy of maintaining the *Hading-Hoba Mulung* rules in capture fisheries activities in the West Pantar District of Alor Regency in order to maintain the sustainability of fishery resources in Alor Regency. The benefits of the research are (1) As input for policy makers in terms of setting policies on the management and utilization of fishery

resources in Baranusa waters, (2) as reference material for other researchers.

II. DATA AND METHODS

A. Time and Place

The study was carried out from January to March 2021 in the waters of Baranusa, West Pantar District, Alor Regency, East Nusa Tenggara Province.

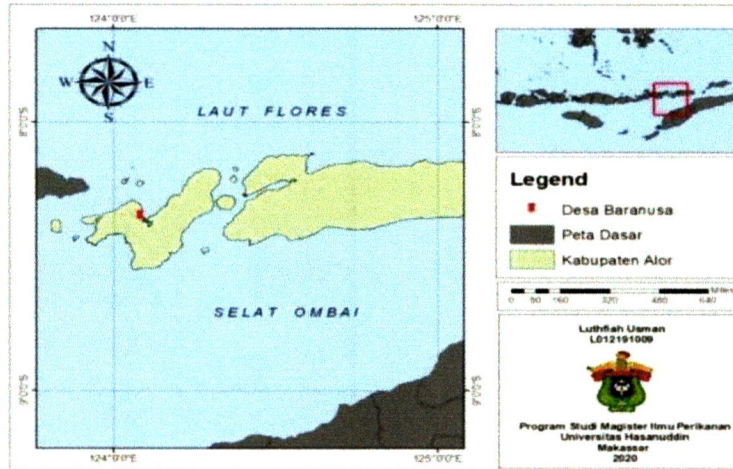


Figure 1. Research location

B. Research Equipment

The equipment needed in the research and its uses are presented in Table 1.

Table 1. Research tools and their uses

Tools	Use
Stationery	Used to record data and interview results obtained
Camera	Used as a tool for documenting activities.
Questionnaire	Used as a guide to obtain additional information needed from fishermen.
Tape Recorder	Used to record during the interview

C. Data Collection

The research method is using a survey method by means of direct interviews. The survey method was carried out to obtain data about existing facts and to find factual information that occurred at the research location.

The type of data, data sources, and retrieval methods are presented in Table 2 below:

Table 2. Types of Data, Data Sources, and Data Retrieval Methods

Research purposes	Data Type	Retrieval Method	Data source
Determine policy strategy to maintain the existence of <i>Hading-Hoba Mulung</i>	Primary : Internal factors are Strengths and Weaknesses. External Factors Opportunity (Opportunity) and Threat (Thread)	Direct observation and interview	Customary councils, fishermen, community leaders who understand local wisdom at the research site

D. Data Analysis

To determine the policy strategy in an effort to maintain the existence of *Hading Hoba Mulung*, the following analysis is carried out:

SWOT analysis

SWOT analysis is used with the aim of systematically identifying various factors to formulate a development policy strategy to maintain *Hading-Hoba Mulung* in Alor Regency. The stages of the SWOT analysis process are carried out through the following stages: 1). Determine internal factors (strengths and weaknesses) and external (opportunities and threats) 2). Determine the weight and rating on each internal factor and external factor. 3). Determine the weight and score by multiplying the weight value x rating. 4). Develop an Internal Strategic Factors Analysis Summary (IFAS) matrix and an External Strategic Factors Analysis Summary (EFAS) matrix. 5). Draw up a SWOT diagram. 6). Develop a SWOT matrix [4].

III. RESULTS AND DISCUSSION

Strategy to defend *Hading-Hoba Mulung*

Table 3. Assessment of the Strengths and Weaknesses of the *Hading-Hoba Mulung* rule in Pantar Barat District, Alor Regency.

NO	Key Parameters	Indicator	S/W
1	Has the customary rules of <i>Hading-Hoba Mulung</i>	<i>Hading-Hoba Mulung</i> regulates the management of marine resources in Baranusa in terms of fishing which is binding on the entire community so that it is always obeyed, if there are violations, sanctions will be imposed.	S1
2	Fishing activity in general is still profitable.	Fishermen's catches are sold fresh in local markets and some are dried for later resale.	S2
3	Fisherman experience	Most of the respondents have 10-20 years of experience as fishermen.	S3
4	The abundance of high economic fish resources in the <i>Mulung</i> area.	The improving condition of coral reefs is directly proportional to the availability of high economic fish resources in the <i>Mulung</i> area.	S4
5	Fishing gear technology and fishing business	Knowledge of fishermen related to fishing gear used for generations, the operation method is relatively simple so that the catch is only modest.	W1
6	Limited access to marketing/sales of catch	The absence of the nearest Fish Auction Place (TPI) has been planned by the government but has not been realized. This condition causes fishermen to only sell their catch in the local market or to collectors in Baranusa.	W2
7	Fishing business support facilities	Limited supporting facilities such as TPI and ice factory (due to electricity conditions in the research location only 12 hours, starting from 18.00 to 06.00). so that the catch does not last long if fishermen want to sell outside the island of Baranusa.	W3
8	Weak institutional oversight of the Baranusa indigenous peoples and the government	Almost all respondents said that there was a lack of attention from traditional institutions and the government in terms of carrying out supervision in the <i>Hading-Hoba Mulung</i> area. As a result, fishermen from outside carry out fishing activities in the area.	W4
9	Lack of socialization/counseling on fishing for fishermen.	There are still fishermen from Baranusa who use fishing gear that is not environmentally friendly.	W5
10	The emergence of conflict between fishermen	There is no firm action from traditional institutions related to fishermen using bomb and potassium fishing gear. Because they have a family relationship, they are reluctant to reprimand them.	W6

Description: S = Strength (Strength), W = Weakness (Weakness)

Evaluation of External Strategic Factors

As a strategy to maintain the existence of *Hading-Hoba Mulung* rules for sustainable fisheries, researchers tried to develop strategies using SWOT analysis, based on information obtained during the study, several parameters emerged that were used to determine internal and external factors. The internal factors in question are factors that directly affect the traditional rules of *Hading-Hoba Mulung* which consist of Strengths and Weaknesses, while external factors are from outside such as the environment that also influence the activities of *Hading-Hoba Mulung* which consists of Opportunities (Opportunity) and Threats (Threat).

Evaluation of Internal Strategic Factors

The results of the analysis obtained several main internal factors that can be used as strengths and weaknesses of the *Hading-Hoba Mulung* rule in Baranusa, presented in table 3 below:

He explained several external factors that directly or indirectly influenced the *Hading-Hoba Mulung* customary rules. External factors that have a positive effect are opportunities and negative effects are threats, which are presented in table 4 below:

Table 4. Assessment of opportunities and threats of the *Hading-Hoba Mulung* current in Pantar Barat District, Alor Regency.

No	Key Parameters	Indicator	O/T
1	Potential fish resources owned	The <i>Hading-Hoba Mulung</i> rule is an effort to provide opportunities for marine biota to grow and develop so that their availability is always there and abundant. Respondents felt that they had benefited greatly after the <i>Hading-Hoba Mulung</i> regulation was re-enacted.	O1
2	The market potential is quite large	The catches of fishermen are not only sold fresh, they can also be processed into packaged products with a higher selling value. In addition, the research location has the potential for marine tourism because of its beauty and is used as an educational tour about local wisdom in marine management.	O2
3	There are government policies that support	In the Decree of the Minister of Maritime Affairs and Fisheries Number 35 of 2016 making the Pantar Strait a Swaka Alam Perairs (SAP) with an area of 276,693.38 Ha with the aim of regional sustainable development: protection and management of coral reef ecosystems, seagrass beds, mangroves, sustainable fisheries, and protected marine biota such as turtles, sharks, manta rays, and marine mammals including whales, dolphins, and dugongs as well as sustainable development and use.	O3
4	Bad weather or climate	The level of rainfall in Alor Regency is low, because the rainy season is shorter, from November to March and there are frequent storms and waves, compared to the dry season from April to October. Fishermen carry out fishing activities for 7 months, but according to <i>Hoba Mulung's</i> time, they only carry out fishing activities for 3 months in the <i>Mulung</i> area, the rest operate outside the <i>Mulung</i> area.	T1
5	Destructive fishing activities (destructive and illegal fishing)	The use of destructive fishing gear causes damage to the coral reef ecosystem so that fish resources are reduced, this activity is carried out by fishermen from outside Baranusa.	T2

Description: O = Opportunities (Opportunities), T = Threats (Threats)

Assessment of Internal and External Factors

To see the influence of internal and external factors on the *Hading-Hoba Mulung* rules in fishing activities at the research location the internal factors analysis summary (IFAS) matrix model and the external factors analysis summary (EFAS) matrix were used.

From the results of the IFAS calculation, it shows that the main strength is (S1) the existence of the *Hading-Hoba Mulung* rule of 0.75; (S4) the availability of abundant marine resources is 0.75; (S2) fishing activity is profitable by 0.40; and (S3) the

average respondent fisherman has more than 10 years of fishing experience at 0.40. While the main weaknesses are (W6) the emergence of conflicts between fishermen of 0.38; (W1) the weakness of the fishing technology used is 0.25; (W5) lack of socialization/counseling on the rules of *Hading-Hoba Mulung* by 0.20; (W4) the weak supervision of Baranusa traditional institutions by 0.15; (W2) weak access to marketing by 0.08; (W3) Weak fisheries support facilities. To be more clearly presented in table 5 below:

Table 5. Assessment of Internal Factors Analysis Summary.

Strategic Factor	Weight	Rating	Score	
<i>Strenght</i>	Have the <i>Hading-Hoba Mulung</i> customary rules (S1)	0,15	5	0,75
	Fishing activity is still profitable (S2)	0,1	4	0,40
	Fisherman experience (S3)	0,1	4	0,40
	Abundance of high economic fish resources in the <i>Mulung</i> area (S4)	0,15	5	0,75
Total Strength			2,30	
<i>Weakness</i>	Technology of fishing gear and fishery business (W1)	0,1	2,5	0,25
	Limited access to marketing/sales of catch (W2)	0,05	1,5	0,08
	Fishing business support facilities (W3)	0,05	1	0,05
	Weak institutional supervision of the Baranusa indigenous people (W4)	0,05	2,9	0,15
	Lack of socialization/counseling on fishing for fishermen (W5)	0,1	2	0,20
	Conflict between fishermen (W6)	0,15	2,5	0,38
Total Weakness			1,10	
TOTAL	1		3,40	

Rating description: 1: very weak, 2: weak, 3: moderately strong, 4: strong, 5: very strong

Based on the value of IFAS analysis, it is known that the *Hading-Hoba Mulung* policy/rule in fishing activities has a score of 3.40 2.5, meaning that internal conditions have the strength to overcome a situation of weakness. The condition of the *Hading-Hobang Mulung* regulation has many weaknesses that must be overcome in order to seize opportunities by utilizing the strengths possessed in the utilization of fishery resources based on local wisdom such as conducting fishery socialization / counseling.

Table 6. External Assessment Factors Analysis Summary

Strategic Factor	Weight	Rating	Score	
<i>Opportunity</i>	Potential fish resources owned (O1)	0,23	5	1,15
	Opportunities for work opportunities in other fields (O2)	0,15	4	0,62
	The existence of supportive government policies (O3)	0,23	5	1,15
Total Opportunity			2,92	
<i>Threats</i>	Bad weather or climate (T1)	0,15	2,50	0,38
	Destructive fishing activities (Destructive and illegal fishing) (T2)	0,23	2,90	0,67
Total Threat			1,05	
TOTAL	1,00		3,98	

The results of the analysis show that the main external factors are providing opportunities for the strategy (O1) the potential of fish resources owned is 1.15; (O3) opportunities from the existence of government policies so that they can strengthen the *Hading-Hoba Mulung* regulations by 1.15; (O2) employment opportunities in other fields such as processing catches are 0.62. While the main threats, namely (T2) the existence of fishing activities that damage marine ecosystems by 0.67; (T1) bad weather and season by 0.38. Opportunities have a greater value than threats, meaning that with opportunities they can minimize threats that will occur. The results of the IFAS and EFAS analysis show that the value of the policy on the use of fish resources based on local wisdom in Baranusa, namely *Hading-Hoba Mulung*, is still maintained and is the best policy chosen.

Formulation of strategy to maintain the rules of the Oldest *Hading-Hoba Mulung*

To formulate a strategy in maintaining the *Hading-Hoba Mulung* rule, the results of the analysis of internal factors and external factors, namely developing the strengths and opportunities to minimize the weaknesses, are presented in Table 7.

Table 7. SWOT Matrix of alternative strategies to maintain the *Hading-Hoba Mulung* rule.

		Strength	Weakness
Internal Factor		1. Having the <i>Hading-Hoba Mulung</i> customary rules (S1)	1. Technology of fishing gear and fishery business (W1)
		2. Fishing activity is still profitable (S2)	2. Limited access to marketing/sales of catch (W2)
		3. Fisherman experience (S3)	3. Fishing business support facilities (W3)
		4. Abundance of high economic fish resources in the <i>Mulung</i> area (S4)	4. Weak institutional supervision of the Baranusa indigenous people (W4)
Eksternal Factor			5. Lack of socialization/counseling on fishing for fishermen (W5)
			6. Conflict between fishermen (W6)
Opportunity		S-O Strategy	W-O Strategy
1. Potential fish resources owned		1. The existence of <i>Hading-Hoba Mulung</i> regulations and government policy support in terms of the utilization of marine resources and management can provide job opportunities for fishermen and the Baranusa community. Strengthening the Rules of <i>Hading-Hoba Mulung</i> (S1 -S4, O1-O3)	2. By taking advantage of the opportunities they have, better fishing technology is needed so that the catches of fishermen are more (W1-O1)
2. Opportunities for work in other fields			3. Abundant catches are expected to have adequate marketing facilities and health insurance at the research site (W2, W3, O2)
3. There are supportive government policies			4. There is a policy from the government that supports and strengthens the <i>Hading-Hoba Mulung</i> regulations, socialization / counseling related to the management of SDI based on local wisdom that is owned so that there is no conflict between fishermen (W4,W5,W6,O3)
Threat		S-T Strategy	W-T Strategy
1. Bad weather or climate		5. The <i>Hading-Hoba Mulung</i> regulation also regulates the fishing time (<i>Hoba</i>) which is adjusted to the weather or climate so that fishermen are not worried and prohibits catching using destructive fishing gear (S1-T1, T2)	
2. Destructive and illegal fishing activities			6. Routine supervision is required, both from the Baranusa Customary Institution and the government (W4-T2)

From the results of the SWOT analysis, five alternative policies were obtained to maintain the *Hading-Hoba Mulung* rule in arresting activities in Baranusa, namely: (1) Strengthening of *Hading-Hoba Mulung* customary institutions, (2) Development of fishing technology, (3) Development of fishery support facilities (TPI, Ice Factory) and access to marketing, (4) Community empowerment through socialization/counseling on fisheries related to customary and government regulations, (5) Strengthening supervision activities by traditional institutions and the government in the *Mulung* area.

IV. CONCLUSIONS AND SUGGESTIONS

Conclusion

The strategy to defend *Hading-Hoba Mulung* in Baranusa is as follows: (1) Strengthening of *Hading-Hoba Mulung* customary institutions, (2) Development of fishing technology, (3) Development of fishery support facilities (TPI, Ice Factory) and access to marketing, (4) Community empowerment through socialization/counseling on fisheries related to customary and government regulations, (5) Strengthening supervision activities by traditional institutions and the government in the *Mulung* area.

Suggestion

In connection with the conclusions of this study, several things are suggested, namely strategies to be recommended to the Baranusa customary council and the government in preparing tasks for each party involved in enforcing the *Hading-Hoba Mulung* rules, as well as collaborating with the Alor Regency Government to make a policy/regulation in the form of area marking, *Mulung* or giving symbols in the *Mulung* area so that there are no fishermen carrying out fishing activities in the *Mulung* area during *Hading* (sea closure), intensively introducing or socializing outside the Pantar Baran area in terms of introducing the *Hading-Hoba Mulung* rules.

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