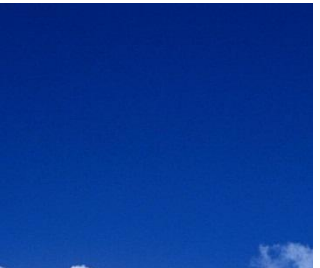


# PRESERVATION VALUATION OF HUTAN BAKAU PANTAI TIMUR NATURE RESERVE AREA

By Marwa Prinando



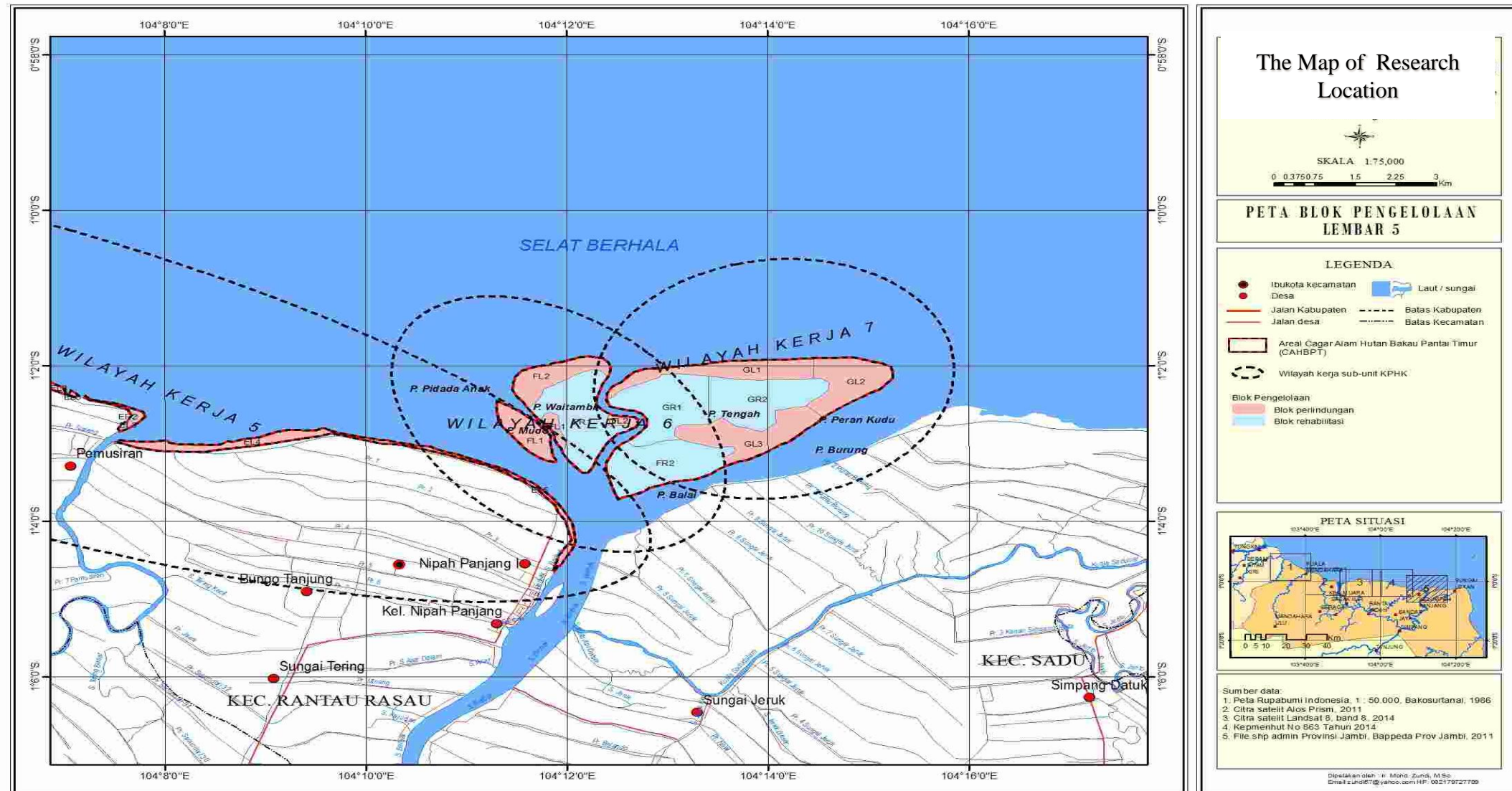
# Background

- Hutan Bakau Pantai Timur Nature Reserve has many functions like Ecologically, economically, and social culturally.
- Many functions consist of tangible benefits and intangible benefits.

# Objective

The purpose of this research is to estimate preservation value of Hutan Bakau Bakau Pantai Timur Nature Reserve at Nipah Panjang Resort Tanjung Jabung Timur District

# Research Location



# Result and Discussion

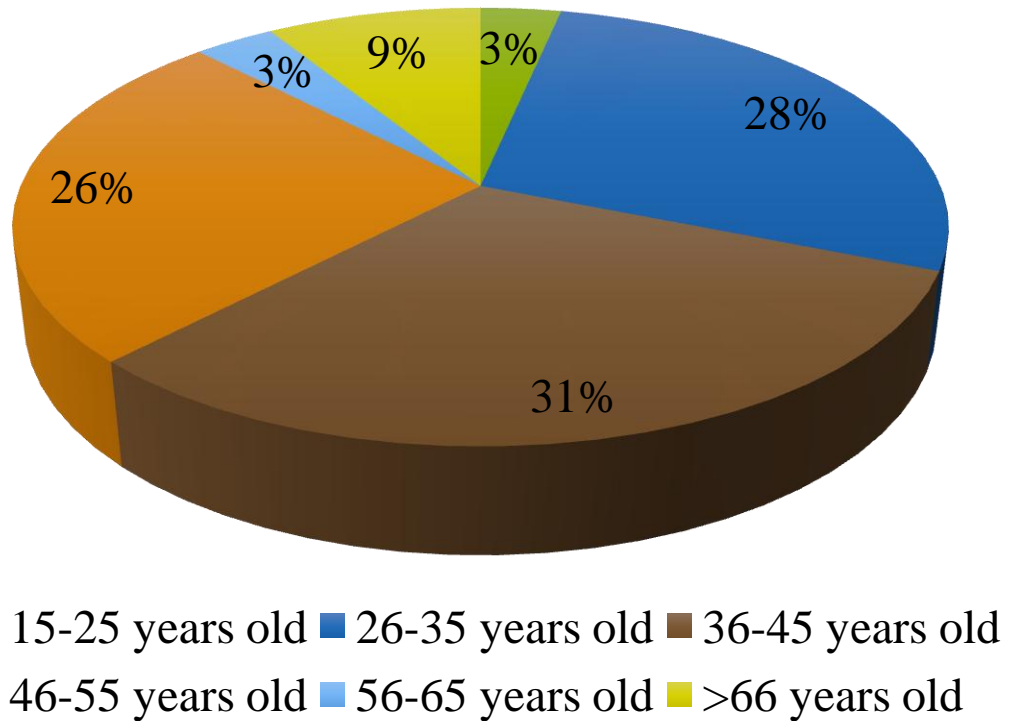
## A. Society Profile

Village	Total of Family	Gender		The total of Society	Density (person/km <sup>2</sup> )
		Male	Female		
Nipah Panjang I	1 631	3 347	3 263	6 610	132,36
Teluk Kijing	268	516	537	1 053	58,5
Pemusiran	283	540	554	1 094	91,17
Total	2 182	4 403	4 354	8 757	

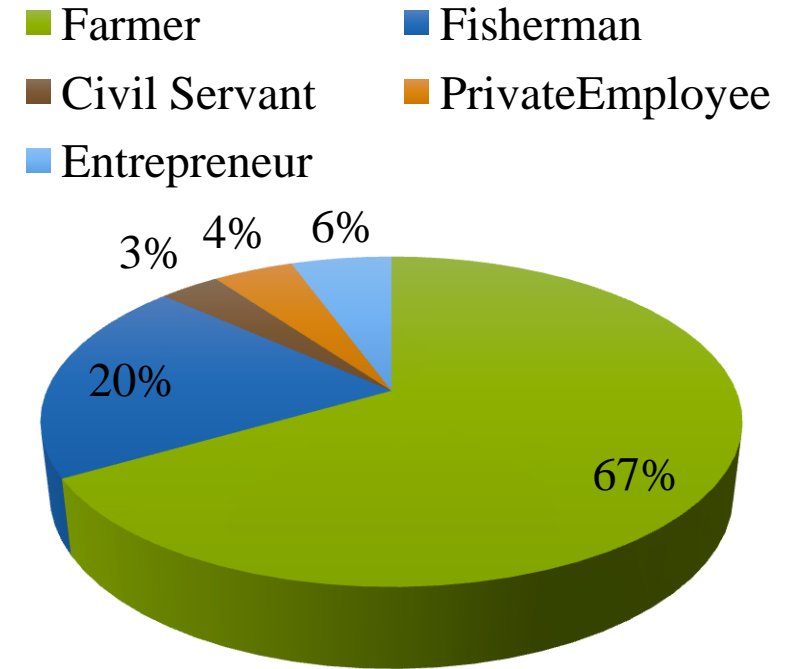


## B. The Characteristic of Respondent

### 1. Age



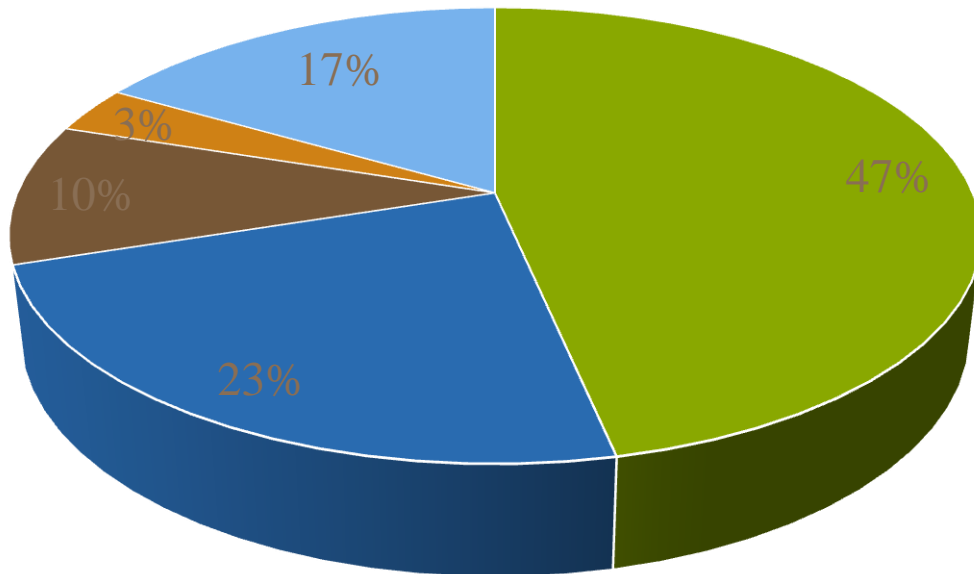
### 2. Occupation



## B. The Characteristic of Respondent

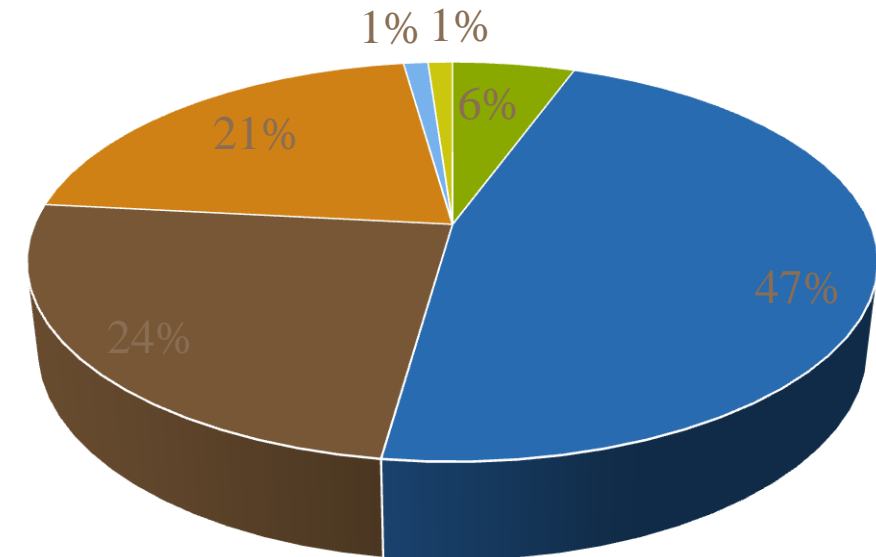
### 3. Income level

- Rp 1.000.000-2.000.000
- Rp 2.000.001-3.000.000
- Rp 3.000.001-4.000.000
- Rp 4.000.001-5.000.000
- Rp >5.000.000



### 4. Education level

- not graduated from school
- Elementary School
- Junior High School
- Senior High School
- Associate Degree
- Bachelor's Degree



## C. Area Preservation Value

### 1. Existence Value

WTP (Rp)	Respondent Frequency	WTP value (Rp/year)
5 000	7	35 000
10 000	13	130 000
15 000	5	75 000
20 000	7	140 000
30 000	1	30 000
50 000	26	1 300 000
100 000	15	1 500 000
300 000	1	300 000
500 000	3	1 500 000
<b>Total</b>	<b>78</b>	<b>5 010 000</b>
<b>Median value of WTP</b>		<b>30 000</b>
<b>WTP value/year</b>		<b>262 710 000</b>

- ❖ From total 90 respondents, only 78 respondents (86.67%) who have willingness to pay for the existence value of Hutan Bakau Pantai Timur Nature Reserve
- ❖ Total value of WTP for a year was Rp. 5 010 000. Median value was Rp. 30.000
- ❖ The WTP total value for a year was estimation from existence value of nature reserve which is obtained from the result of multiplication between WTP median value per year and the total society in Nipah Panjang I village, Teluk Kijing Village and Pemusiran Village (8 757 person), the result was Rp. 262 710 000.

## 2. Bequest value

---

	Amount	%
<b>Have you seen an eagle?</b>		
Ever	83	92.22
Never	7	7.78
<b>Where?</b>		
Mass Media	0	0
Television	0	0
Internet	0	0
See directly	83	100

Only 7 person (7.78 %) respondents who never see the eagle. Meanwhile overall the respondents who ever see the eagle stated that they see it in Hutan Bakau Pantai Timur Nature Reserve. It showed that eagle population in this area is abundant.

WTP (Rp)	Respondent	
	Frequency	WTP Value (Rp/Year)
5 000	5	25 000
10 000	14	140 000
15 000	1	15 000
20 000	10	200 000
25 000	2	50 000
30 000	1	30 000
35 000	1	35 000
50 000	20	1 000 000
100 000	6	600 000
150 000	1	150 000
200 000	2	400 000
500 000	1	500 000
<b>Total</b>	<b>64</b>	<b>3 145 000</b>

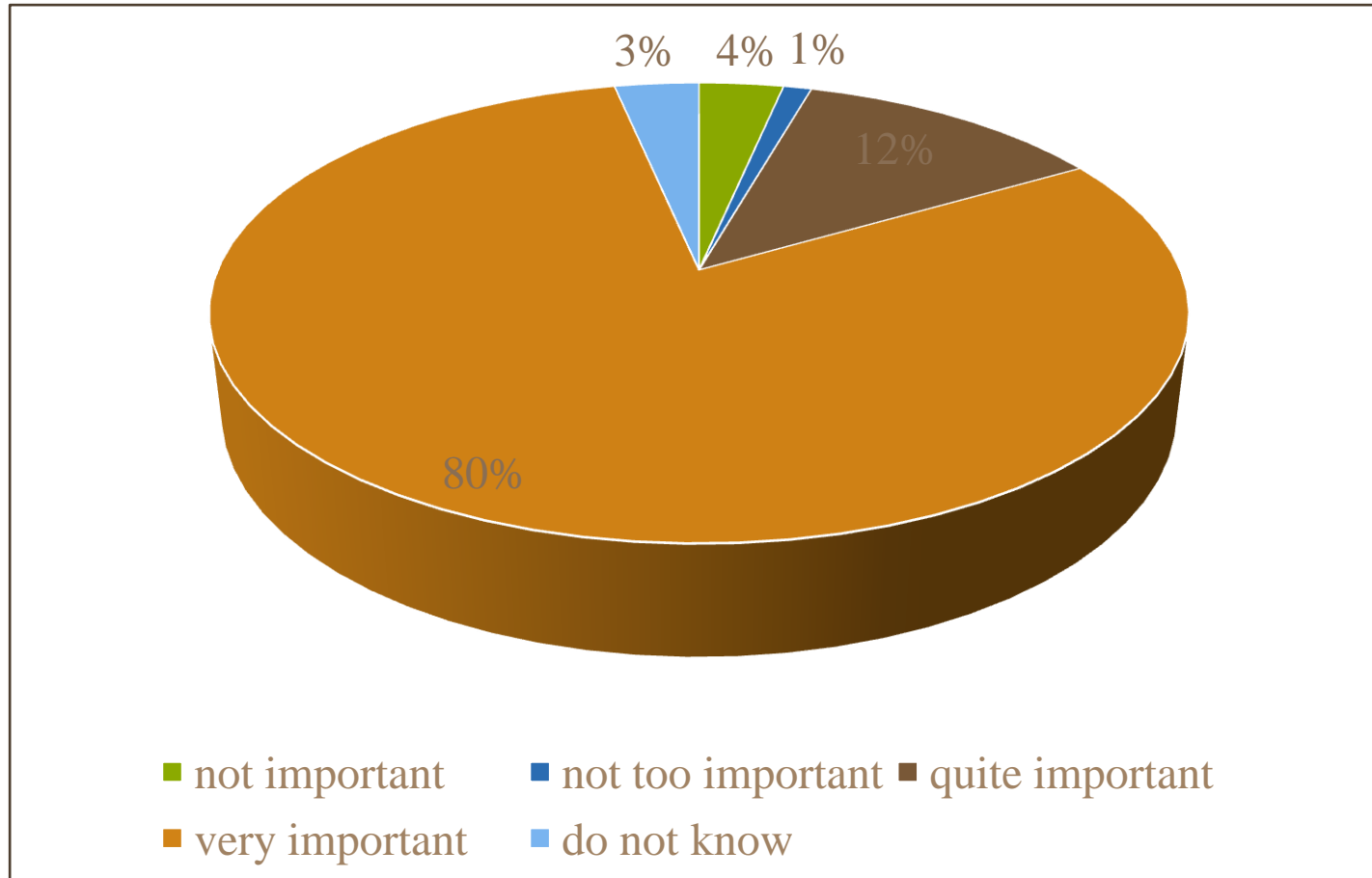
WTP Median

Value

32 500

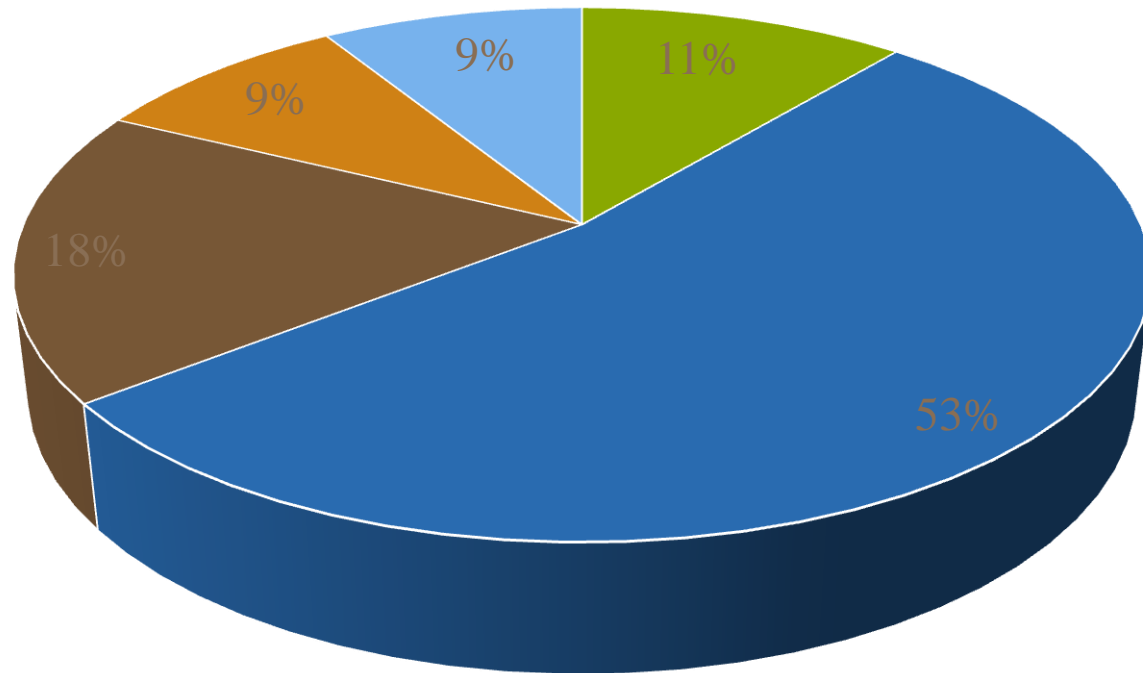
- ❑ There were 64 respondents who have willingness to pay from the scenario result.
- ❑ WTP Total value per year was RP. 3 145 000. WTP median value from the respondents who have willingness to pay was Rp 32 500.
- ❑ Total WTP value in a year was the estimation from eagle value which is obtained as the result of multiplication between WTP median value and the total society in Nipah Panjang I village, Teluk Kijing Village and Pemusiran Village (8 757 person), it was Rp 284 602 500.

# Respondents Perception to the existence of Hutan Bakau Pantai Timur Nature Reserve



From the total respondents, 80% respondents agree that this nature reserve area is important for them. Meanwhile 12 % respondents said that it is quite important, 1 % said it is not too important, 3 % respondents do not know and only 4% respondents who agree that Hutan Bakau Pantai Timur Nature Reserve area is very important.

# Respondents Perception to the existence of Hutan Bakau Pantai Timur Nature Reserve



■ very good ■ good ■ good enough ■ damaged ■ do not know

Positive perception to the existence of Hutan Bakau Pantai Timur Nature Reserve Area also in line with society presumption about the condition of this area. Data showed that 11 % respondents assume that the mangrove forest condition was very good, 53% assume it was good, 18% assume that the condition was good enough, 9 % respondents did not know, and only 9 % respondents assume that mangrove forest condition was damaged.

Base on the data about society perception to existence of Hutan Bakau Pantai Timur Nature Reserve showed the level of awareness about the importance of this area for their life sustainability was high. But it was not significant with the amount of money that they will to pay for preserving the area and the ecosystem. Occupation and income level were the factors that influenced. It is in line with a research by Wahyuni (2013) who said factors that influenced existence value and bequest value were occupation, income and the origin of respondents.



# Conclution

- Area preservation value of Hutan Bakau Pantai Timur especially in Nipah Panjang Resort in 2017 was Rp. 547 312 500. Consist of existence value with total Rp. 262 710 000 and bequest value with total Rp. 284 602 500.
- Society awareness about the importance of existence mangrove forest for their life was high. The factors that influenced preservation value were occupation and income level.



THANK YOU

