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Coastal Tourism Management Model toward Developing Independent Tourist Village in Central Lombok District, Indonesia

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Abstract: Village development aims to improve the welfare of villagers and the quality of human life. The purpose of this study was to formulate a coastal tourism management model toward developing independent tourist villages. This study employed a quantitative approach by using survey methods. The data analysis was performed using structural equation modeling (SEM). There were four variables namely: the potential of mangrove ecosystem, the perception of the coastal community, the coastal tourism facilities, and the coastal ecotourism. The results indicated that there were two variables which had a significant effect on the management of coastal tourist villages, namely the perception of coastal community and coastal ecotourism. Furthermore, the management of a coastal tourist village had a significant effect on the development of independent coastal tourist villages, and the management of coastal tourist villages was a strong mediator to develop an independent coastal tourist village.

Keywords: mandalika; tourist village; independent tourist village; ecotourism; mangrove; SEM

1. Introduction

The establishment of Law Number 6 of 2014 Concerning Village confirms the Government's of Indonesia's commitment in the political and constitutional fields to protecting and empowering the Village to be strong, advanced, independent, and democratic [1]. The Village law makes a village socially powerful, politically sovereign, economically empowered, and culturally dignified. Thus, village development aims to improve the welfare of villagers and the quality of human life, as well as reduce poverty through the fulfillment of basic needs, development of village facilities and infrastructure, development of local economic potential, and sustainable use of natural and environmental resources.

In regard to the development of villages in coastal areas, one of the potential natural resources that has strategic value and principles of benefit from ecological, economic, and socio-cultural aspects is the mangrove forest. In order to optimize the management of mangrove resources and the coastal environment, an assessment is needed to determine the potentials, problems, suitability of sustainable management strategies, and knowledge of the strategic value of mangrove forests that benefit the surrounding community in the form of providing massive environmental services, namely coastal protection from storms and erosion and direct income for the villagers through tourism activities [2–5].

Nowadays, there has been a paradigm shift for tourists both foreign and domestic tourists in choosing tourism objects. A tour to enjoy a life of an environment and its ecosystem highly attracts the attention of tourists. Such forms of tourism is called ecotourism. One of the most reliable forms of such tourism opportunities in coastal areas is mangrove-based ecotourism.

Kuta Beach in the southern coastal region of Central Lombok Regency, West Nusa Tenggara Province, has been established by the Government through the authority of the Indonesia Tourism Development Corporation Management Agency (ITDC) as a tourism development center under the name “Resort Mandalika”, which is one of ten National Tourism Destinations. Furthermore, in the context of accelerating national development, the Province of West Nusa Tenggara is included in the Master Plan for the Acceleration of the Indonesian Economic Development (MP3EI) Corridor V, which is determined based on the Presidential Regulation No. 32 of 2011 concerning the “Master Plan for the Acceleration and Expansion of Indonesian Economic Development”, with the emphasis on food and tourism as featured sectors.

The commitment of the Indonesian Government to advance the Mandalika Region tourism sector is reinforced by the direction of the Indonesian Minister of Tourism in Mataram on 8 February 2016 that the Mandalika Region is one of 10 Priority Travel Destinations of Indonesia, which prioritizes three aspects as the attractions, namely (1) Development of Cultural Tourism Destinations; (2) Development of Natural Tourism Destinations, and (3) development of Artificial Tourism Destinations. In addition, Mandalika Region is one of three regions designated as “Special Economic Zones” along with Tanjung Lesung Beach in Banten Province and the Morotai Islands in North Maluku Province, along with seven other locations as “Strategic Areas for National Tourism”.

Mertak Village as one of 11 coastal villages in Central Lombok Regency and one of the six Coastal Villages in Pujut District has good prospects for tourism development; with the establishment as a Coastal Tourism Village it will have a high chance of becoming an independent tourist village. This research was conducted to obtain variable information and decisive indicators on the development of tourist village to create independent tourist village. Therefore, the purpose of this study was (1) to analyze the relationship between variables in the management of coastal tourist village and independent coastal tourist villages; and (2) formulate a model for improving coastal tourism village management to develop an independent coastal tourist village in Central Lombok Regency.

2. Research Methods

This research was carried in Mertak Village Central Lombok Regency (research locations in Figure 1) by employing a quantitative approach specifically survey method taking a sample of 174 random respondents from the villagers and village government officials. Questionnaires were distributed to collect the data. Which were analyzed by means of the Structural Equation Modeling (SEM).

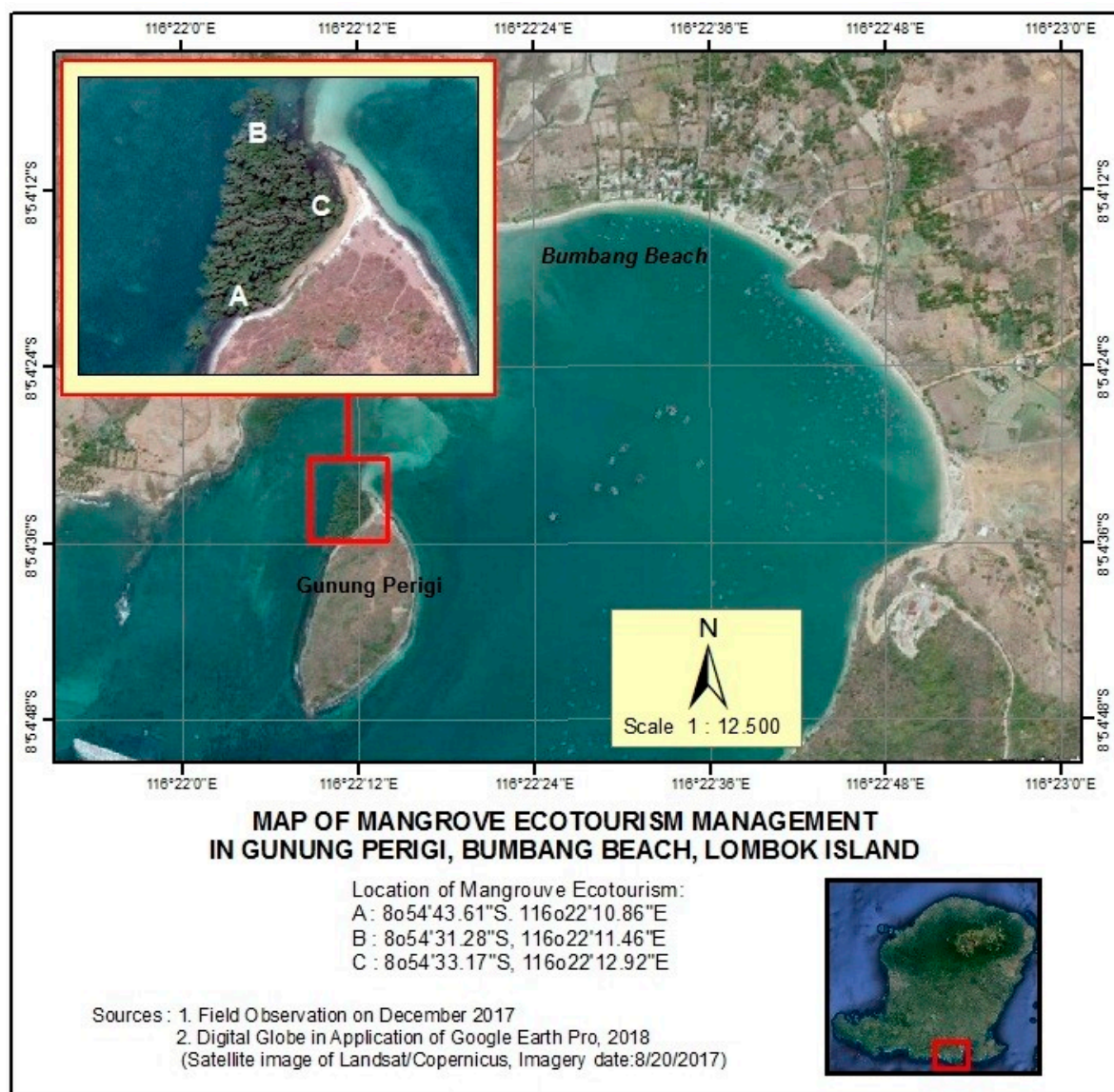


Figure 1. Research locations.

The conceptual framework of this research was based on the theoretical foundation of various references and supported by the results of previous research such as: Law No. 6 of 2014 Concerning Village [1]; about Tourist Satisfaction with Mangrove Ecotourism Service [6]; the characteristics of mangrove forests [7]; Integrated Mangrove Ecosystem Management [8]; the Collaborative Approach between Tourism and Coastal Communities [9]; Mangrove Ecosystem as Natural Tourism Object [10]; Tourist Village Development Based on Local Community Participation [11]; the Development of Facilities and Infrastructure to Support Sustainable Coastal Tourism [12]; The level of participation in Mangrove ecotourism development [13]; Factors Affecting the Empowerment Level of Coastal Communities [14]; Effect of Soil Quality on the Survival Rate of Mangrove Vegetation [15]; vulnerability analysis of mangrove forest status as a tourism area [16]; based on the description above, the research conceptual framework is presented in Figure 2.

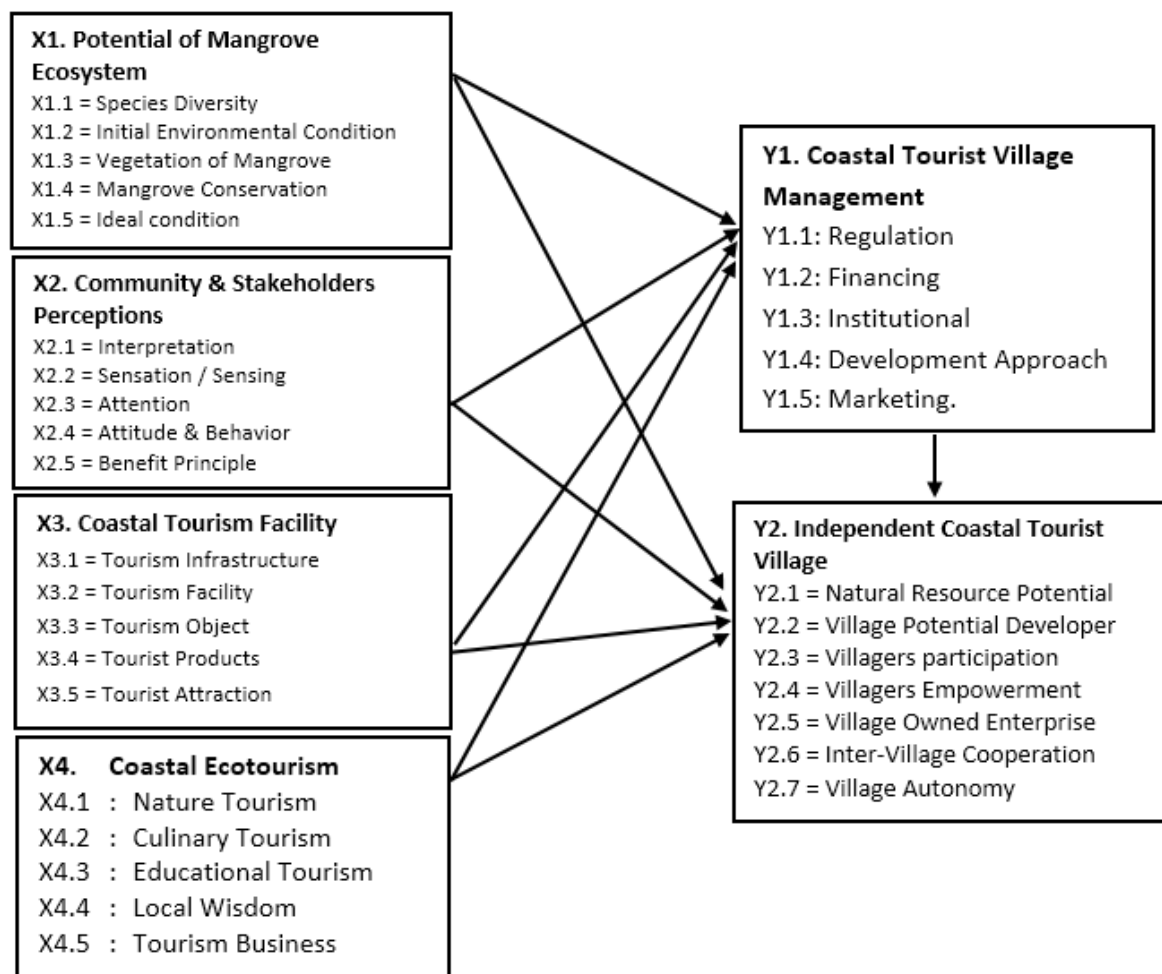


Figure 2. Research conceptual framework.

Based on the conceptual framework of research, it can be arranged hypothesis: (1) It is suspected that there is a significant positive relationship between the potential of mangrove ecosystems, community perceptions and stakeholders, coastal tourism facilities and coastal ecotourism to the management of coastal tourism villages and independent village of coastal tourism; (2) Management of Coastal Tourism Villages suspected significant effect become a strong mediator for the establishment an Independent Village of Coastal Tourism.

The measurement of research variables involved some indicators and items of indicators. The data of this research were ordinal data scale obtained from the respondents' perceptions. The respondents' perceptions were taken from a structured questionnaire and the responses in the form of ranking ranging from Strongly Agree, Agree, Moderately Agree, Disagree, and Strongly Disagree had been prepared. The score for each answer in the questionnaire was: Strongly Disagree had 1 (one) point; Disagree had 2 (two) points; Moderately Agree had 3 (three) points; Agree had 4 (four) points; and Strongly Agree had 5 (five) points. The indicator and items of indicator from each latent variable can be seen in Tables 1–6.

Table 1. Indicators and indicator items of Mangrove Ecosystem Potential Variable.

Latent Variable	Indicator	Item of Indicator
Potential of Mangrove Ecosystem (X1)	Species diversity (X1.1)	It is useful for understanding the diversity of mangrove species (X1.1.1)
		Each type of mangrove has different shapes and properties (X1.1.2)
		It has a significant role in maintaining environmental ecological balance (X1.1.3)
	Initial environmental condition (X1.2)	It is useful for knowing the actual environmental conditions (X1.2.1)
		It anticipates the level of pollution and environmental damage (X1.2.2)
		Environmental changes have a direct impact on the lives of flora, fauna, and humans (X1.2.3)
	Vegetation of mangrove plant (X1.3)	It is useful for knowing the level of plant density (X1.3.1)
		Each vegetation has different abilities in dealing with environmental changes (X1.3.2)
		It is useful as a source of information about economic values and biological values (X1.3.3)
	Conservation (X1.4)	The conservation program is the responsibility of all parties including the government, society, non-governmental organizations, and universities (X1.4.1)
		It is beneficial for people's lives both economically and biologically from the utilization of as a place of recreation area and natural tourism (X1.4.2)
		The management and utilization of mangrove ecosystem need to prioritize the protection function since it has distinctive characteristics and uniqueness (X1.4.3)
	Ideal condition (X1.5)	It has an important role in identifying supporting factors and inhibiting factors for planned activities (X1.5.1)
		Environmental condition must be truly as needed (X1.5.2)
		It becomes an alternative treatment that can provide added value (X1.5.3).

Table 2. Indicators and indicator items from the research variables Perception of Coastal Communities.

Latent Variable	Indicator	Item of Indicator
Society and Stakeholders Perceptions (X2)	Interpretation (X2.1)	It becomes the core of the perception/understanding of something (X2.1.1)
		Everyone has a different picture of the nearby environment (X2.1.2)
		It describes someone's characteristic and perceives/interprets the environment both physically and socially (X2.1.3)
	Sensation/Sensing (X2.2)	It has the role of capturing stimuli towards an object (X2.2.1)
		The highest stimulation is through the sense of sight and hearing (X2.2.2)
		Every individual/villager is aware of what is accepted as a decision-making consideration (X2.2.3)

Table 2. Cont.

Latent Variable	Indicator	Item of Indicator
Society and Stakeholders Perceptions (X2)	Attention (X2.3)	Everyone has a desire to know an object clearly(X2.3.1)
		It has a role of giving information that is considered new and important (X2.3.2)
		An option as an assessment decision can be set easily (X2.3.3)
	Attitude and behavior (X2.4)	It has an important role as a form of evaluation and reaction of feelings that arise; it can be supporting/taking sides or not supporting/impartial (X2.4.1)
		Attitudes and behavior are the form of interaction process between individuals and their environment (X2.4.2)
		A person has an ability to adjust his or her behavior to the views of others (X2.4.3)
	Benefit principle (X2.5)	The sense of belonging to natural resources can be conveyed since it provides useful value and positive effect in life (X2.5.1)
		Natural resources provide economic, ecological and socio-cultural benefits (X2.5.2)
		The principle of togetherness, independence and sustainable environmental perspective based on the principle of kinship plays an important role in the success of natural resource management (X2.5.3)

Table 3. Indicators and indicator items from research variables coastal tourism facilities.

Latent Variable	Indicator	Item of Indicator
Coastal Tourism Facility (X3)	Tourism infrastructure (X3.1)	Infrastructures such as roads, bridges, electricity, water, telecommunications, etc. support the development of tourism potential and business (X3.1.1)
		Provision of tourism infrastructures requires government intervention/involvement (X3.1.2)
		The key factor in the success of a tourism business is to provide a sense of security and comfort for tourists (X3.1.3)
	Tourism facility(X3.2)	Availability of lodging facilities, food stalls, parking lots, toilets etc. contribute to give satisfaction for tourists (X3.2.1)
		Involvement of local community participation is one of the determinants of the success of tourism businesses (X3.2.2)
		A professional management is required (X3.2.3)
	Tourism object (X3.3)	It gives information on the existence of tourist sites that become tourist attractions and tourist interests (X3.3.1)
		Management of tourism objects must be environmentally friendly and it maintains sustainability (X3.3.2)
		It provides employment and local community income (X3.3.3)
	Tourist product (X3.4)	It increases local business participation and diversity of product competitiveness (X3.4.1)
		Integration of local community participation and tourism industry actors is needed (X3.4.2)
		It becomes an activity for tourists by highlighting local wisdom and business products provided (X3.4.3)

Table 3. Cont.

Latent Variable	Indicator	Item of Indicator
Coastal Tourism Facility (X3)	Tourist attraction (X3.5)	It must have a distinctive, unique, interesting and competitive nature (X3.5.1)
		It takes human resources who have the skills and artistic value to design a combination of diversity, culture, local wisdom and man-made results (X3.5.2)
		Increased tourist visits have a positive effect on local community income and village income (X3.5.3)

Table 4. Indicators, indicator items from the Coastal Ecotourism research variables.

Latent Variable	Indicator	Item of Indicator
Coastal tourism (X4)	Nature tourism (X4.1)	In the management of nature tourism, the villagers are required to have concern, responsibility and commitment to the preservation of the environment and local culture (X4.1.1)
		Tourism requires a good and healthy environment (X4.1.2)
		Participation and active role of local communities in the development of ecotourism can provide economic benefits (X4.1.3)
	Culinary tourism (X4.2)	It provides important value/added value for the development of local specialty potential by prioritizing the potential of coastal resources found around tourism objects (X4.2.1)
		Professional management is needed so that it can boost the economy of the local community (X4.2.2)
		Food tourism plays a role in providing employment and increasing local income (X4.2.3)
	Educational tourism (X4.3)	It is useful as a means of information and learning to encourage awareness of environmental sustainability (X4.3.1)
		It provides variety of natural tourism products as an alternative tourism destination (X4.3.2)
		It is useful as a means of information and learning to encourage awareness of environmental sustainability (X4.3.3)
		It serves as an informal education forum besides just travelling (X4.3.4)
	Local wisdom (X4.4)	It represents the villagers compliance with social rules in their environment (X4.4.1)
		It is useful to foster a proactive attitude and creativity in developing the Independent Community by prioritizing the value of wisdom amid the influence of globalization (X4.4.2)
		It preserves and maintains the sustainability of local wealth owned by the village, local rules are needed, known as “Awiq-awiq” (X4.4.3)
	Tourism business (X4.5)	It has an important role in tourism development because it deals directly with tourism activities (X4.5.1)
		Local communities are given the chance/opportunity to actively participate in providing tourism business services and (X4.5.2)
		Local people need to increase their skills according to the business sector they are interested in (X4.5.3)

Table 5. Indicators, indicator items from research variables for Coastal Village Tourism Management.

Latent Variable	Indicator	Item of Indicator
Coastal Tourist Village Management (Y1)	Regulation (Y1.1)	It becomes one of the legal norms/rules regulated by the government to be obeyed by all parties (Y1.1.1)
		It functions as a public service set by the government for the needs of the community that has an interest in certain organizations/institutions (Y1.1.2)
		It has a function and role as a law protection for parties, especially the community, in carrying out joint ventures to achieve goals (Y1.1.3)
	Financing (Y1.2)	It acts as a determinant of the direction of the policy of a business/activity and is able to look forward to the things that are possible to be done in the future (Y1.2.1)
		It functions as a reference for making decisions that are most beneficial in supporting the success of managing a business (Y1.2.2)
		It mobilizes all business units to run in an integrated manner to achieve the desired goals (Y1.2.3)
	Institutional (Y1.3)	It has a role in increasing tourism competitiveness through developing organizations, human resources and improving the skills of local workforce in the tourism business (Y1.3.1)
		It serves as a guide to solve the problems in organizations and society in order to achieve the expected goals (Y1.3.2)
		It has a role of running a business/activity better in order to provide greater benefits for its members (Y1.3.3)
	Development approach (Y1.4)	It acts as a guideline for resource management by promoting conservation and long-term oriented aspects (Y1.4.1)
		It acts in balancing tourism development activities with scale, natural conditions and local location characteristics that are oriented towards the value of benefits for local communities (Y1.4.2)
		It has a role in regulating the harmony of the synergy between tourism development needs, the environment and the local community (Y1.4.3)
	Marketing (Y1.5)	It takes carefulness and thoroughness in formulating and allocating tourism products according to the situation and conditions based on the tourists expectations as consumers (Y1.5.1)
		It has a function as a promotion for products produced/provided to be offered to tourists (Y1.5.2)
		It takes the ability to build communication with tourists so that they can influence their wants, needs, motivations, pleasures and dislikes (Y1.5.3)

Table 6. Indicators, indicator items from the Independent Tourist Village (Y2) research variable.

Latent Variable	Indicator	Item of Indicator
Independent Coastal Tourist Village (Y2)	Natural resource potential (Y2.1)	In its management, it always pays attention to the environmental sustainability aspects, value of ecosystem support increase and sustainable use by promoting economic, ecological and socio-cultural principles (Y2.1.1)
		In its management, it involves the active role of the local community according to their expertise and skills by prioritizing local wisdom (Y2.1.2)
		In order to achieve the sustainability of natural resources potential, it is necessary to increase the empowerment of institutional, policy and law enforcement institutions (Y2.1.3)
	Village potential developer (Y2.2)	It increases the active participation of the community in making development decisions in an open, democratic and responsible manner (Y2.2.1)
		It has a role in developing business capabilities and opportunities to increase the income and welfare of the Poor Household through the optimization of the Community Economic Development Institute (Y2.2.2)
		Role in developing the superior economic potential of the Village according to the characteristics of the village typology through the development of the Productive Economic Business Community Group (Y2.2.3)
	Villagers participation (Y2.3)	It has an active role in the development of infrastructure and facilities in the village by promoting the spirit of togetherness, kinship and mutual cooperation (Y2.3.1)
		It actively participates in developing local economic potential and sustainable use of natural and environmental resources (Y2.3.2)
		It is actively involved in socio-economic activities aimed at improving the welfare of villagers through meeting basic needs (Y2.3.3)
	Village empowerment (Y2.4)	It improves the dignity of the community through improving living standards from a level to a better level (Y2.4.1)
		It brings back the experience of people who have empowering and non-empowering values (Y2.4.2)
		It Identifies productive resources and a meaningful power base for making changes through action plans and their implementation (Y2.4.3)
	Village Owned Enterprise (Y2.5)	Village Owned Enterprises/BUMDes (Y2.5.1)
		It acts as a community economic institution that has a strategic function of running a business in the economic field and public services in the village (Y2.5.2)
		It has a role in increasing the income of rural communities and it is as a source of village original income through management of village assets and available natural resource potential (Y2.5.3)
	Inter-village cooperation (Y2.6)	It has a role in developing joint efforts between villages to obtain competitive economic value (Y2.6.1)
		It focuses on community activities, services, development and community empowerment (Y2.6.2)
		It maintains security and order in maintaining assets and resource potential to be managed optimally by each village (Y2.6.3)

Table 6. Cont.

Latent Variable	Indicator	Item of Indicator
Independent Coastal Tourist Village (Y2)	Village autonomy (Y2.7)	The District Government delegates greater authority to the Village in the fields of: governance, development, development and empowerment of villagers (Y2.7.1)
		The Village Government has greater autonomy rights and broad space to manage assets independently and plan the development that is needed by the community (Y2.7.2)
		Village Autonomy has a positive impact on minimizing/reducing urbanization of skilled labor from villages to cities (Y2.7.3)

Based on Tables 1–6, it is understood that each of the variables will be measured by indicators and each indicator item.

3. Data Analysis Method

This research employed a Structural Equation Modeling (SEM) analysis tool that is a combination of two statistical methods namely factor analysis with simultaneous equation modeling. Validity and reliability tests in this study were carried out using the rules in SEM with the help of LISREL software because the model compatibility in the SEM method could directly explain the validity and reliability. The validity of statements which are indicator variables in measuring certain latent variables is assessed by looking at the real loading factor. T-statistic value was >1.96 ($\alpha = 0.05$). Test normality was performed with the LISREL program, the assumption of normality could be tested with statistical values z for skewness and kurtosis. The assumption of normality is met if the p -value of both types of tests is more than 0.05 [17,18]

Structural Equation Modeling (SEM) independent and LISREL 8.8 software (Scientific Software International, Inc.: Skokie, IL, USA) were used to analyze and process the data. One of the advantages of SEM is that it can measure a relationship that cannot be measured directly [17,18]. In this case, the level of community participation, the level of residential environmental infrastructure services and the role of the community could not be measured directly or called latent variables. Satisfaction of services in managing environmental infrastructure and responsible behavior could not be measured directly.

When the input matrix was processed, the goodness of fit index value of the standard solution model was assessed. The following are the tests that can be used as a guide to get the appropriate model in SEM [17–19].

a. Chi-Square value and probability (P)

It is testing the expected results with a data matrix using Chi-Square. A good model requires the value of Chi-Square with a value smaller than the value of the degree of freedom.

b. P-Value

P -value with $p > 0.05$ is a significance different test. If the test results show it is not significant, it means that the input matrix and the alleged matrix are not different or the same, then the proposed model is considered suitable. The p -value ranges between 0 and 1 the structural equation model will get better if the p -value approaches 1.

c. Goodness of Fit Index (GFI)

This test shows how much the model is able to explain the diversity of data. The greater the value obtained, the better the model. The match level target is ≥ 0.90 , as a suitable model reference.

d. Adjusted Goodness of Fit Index (AGFI).

AGFI is a modification of GFI by accommodating free degrees of models with other models being compared. The suitability level target value is ≥ 0.90 .

Based on the description above, the manifest indicator of a model factor of increasing the management of coastal tourist village in developing an independent village of coastal tourism in Central Lombok Regency used LISREL (Linear Structure Relationship) software.

4. Results and Discussion

The research and discussion results are explained within three subjects, (1) description of the respondents' answers towards research questionnaire; (2) confirmatory factor of measurement model (Outer Model); and (3) Goodness-of-Fit of Structural Model (Inner Model).

4.1. Description of the Respondents' Answers

This descriptive analysis was performed in order to find out an overview of the answers given by respondents to each indicator or item of question in the questionnaire. This assessment could be administered by dividing respondents' answers into classes based on certain intervals. The value of class interval in this study was

$$\text{Class Interval} = \frac{\text{highest score} - \text{lowest score}}{\text{number of category}} = \frac{5 - 1}{5} = \frac{4}{5} = 0.80 \quad (1)$$

Based on the class interval, the answer assessment category could be arranged as follows.

Based on Table 7, general descriptions of respondents' answers to all research variables (i.e., potential of mangrove ecosystem, community participation, coastal tourism facilities, coastal ecotourism, coastal tourist village management, independent coastal tourist village) and indicators or items of questions in the questionnaire are presented in the following Table 8.

Table 7. Assessment Category.

Category	Interval
Strongly Disagree (SD)	1.00–1.80
Disagree (D)	1.80–2.60
Moderately Agree (MA)	2.60–3.40
Agree(A)	3.40–4.20
Strongly Agree	4.20–5.00

Table 8. General description of Respondents' Answers towards to all research variables and indicators.

Variables	Indicators	Average of Respondents' Answers towards Indicators
Potential of Mangrove Ecosystem (X1)	Species diversity	4.47
	Initial environmental condition	4.27
	Vegetation of mangrove	4.05
	Mangrove conservation	4.28
	Ideal condition	4.17
Community and Stakeholders Perception (X2)	Interpretation	4.21
	Sensation/Sensing	4.06
	Attention	4.17
	Attitude and behavior	4.06
	Benefit principle	4.14

Table 8. Cont.

Variables	Indicators	Average of Respondents' Answers towards Indicators
Coastal Tourism Facility (X3)	Tourism Infrastructure	4.5
	Tourism Facility	4.43
	Tourism Object	4.42
	Tourist Products	4.29
	Tourist Attraction	4.33
Coastal Ecotourism (X4)	Nature Tourism	4.46
	Culinary Tourism	4.4
	Educational Tourism	4.41
	Local Wisdom	4.26
	Tourism Business	4.29
Coastal Tourism Village Management (Y1)	Regulation	4.34
	Financing	4.08
	Institutional	4.11
	Development Approach	4.26
	Marketing.	4.28
Independent Coastal Tourist Village (Y2)	Natural Resource Potential	4.38
	Village Potential Developer	4.28
	Villagers participation	4.28
	Villagers Empowerment	4.29
	Village Owned Enterprise	4.21
	Inter-Village Cooperation	4.13
	Village Autonomy	4.16

4.2. Confirmatory Factor of Analysis Measurement Model (Outer Model)

Confirmatory factor analysis in smartPLS for the measurement model or outer model was aimed to examine the validity and reliability of each indicator in the research variable, and extract the latent variables from the indicators. In PLS analysis using smartPLS raises a possibility to use two types of latent variable indicator models namely reflective and formative model. The validity of the reflective model can be seen by using the convergent validity criteria and discriminant validity. The validity of the formative indicator model employs the significance criteria from the outer weights of each indicator, in which the notion of significance is fulfilled if the T test statistic value of each indicator is $T < -1.96$ or $T > 1.96$. As the researchers observed the path diagram used in this study, all the latent variables used were classified as reflective models, so that the convergent validity criteria and discriminant validity were used. Convergent validity is performed to determine the validity of each indicator used in the study. An indicator is said to be valid if the outer loading is >0.50 . Discriminant validity is determined based on the value of cross loading whether the cross-loading indicators have the greatest value on the corresponding latent variable. On the other hand, the reliability of the measurement model is seen based on the percentage or diversity proportion of latent variables that can be explained by the indicator. The criterion that can be used is Composite Reliability (CR) > 0.70 . The following is the validity and reliability of each latent variable used within the study.

4.2.1. Potential of Mangrove Ecosystems (X1)

The potential of mangrove ecosystems was thought to be manifested or reflected in indicators of species diversity, initial environmental condition, mangrove vegetation, mangrove forest conservation and ideal condition. In Table 9, the outer loading of all X1 indicators was more than 0.50, therefore it could be said that the research instrument used met the convergent validity requirement. It meant that the research instrument consisting of indicators and items of indicator in the questionnaire could be utilized to measure the Potential of Mangrove Ecosystems. The number shown in the outer loading value indicated how far the indicators reflected each latent variable.

Table 9. Convergent validity (outer loading) indicator of potential mangrove ecosystem variable (X1).

Indicator	Outer Loading	Standard Deviation (SD)	Standard Error (STERR)	T Statistics (O/STERR)
Species diversity (X1.1)	0.747	0.062	0.062	12.228
Initial environmental condition (X1.2)	0.722	0.071	0.071	10.207
Mangrove vegetation (X1.3)	0.722	0.047	0.047	15.278
Mangrove forest conservation (X1.4)	0.766	0.046	0.046	16.620
Ideal condition (X1.5)	0.764	0.057	0.057	13.467

Based on the outer loading value in Table 9, it could be stated that the most dominant mangrove ecosystem potential was determined by indicators of mangrove forest conservation since this indicator had the largest outer loading. This was in accordance with the opinion of References [20,21] that conservation is an effort to use natural resources wisely by referring to the principle of conservation; it is needed as a planned management of natural resources in a sustainable manner, and a natural balance between diversity and the process of evolutionary change in an environment. If it is associated with the operational definition, mangrove forest conservation is the respondent's perception of the conservation activity programs that become the responsibility of all parties such as the government, community, non-governmental organizations and universities; conservation benefits for people's lives, both economically and biologically through the function as a place of recreation and natural tourism; the management and utilization of mangrove ecosystems ought to prioritize the protection function because it has distinctive and unique characteristics. The previously explained definition showed that people in the study area already had a high awareness towards the importance of conservation and who was in charge for it.

The most dominant indicators determining the potential of mangrove forest ecosystems according to the study of Reference [22] explained that management of natural resources by means of restoration or improvement of mangrove forests is considered to have succeeded in achieving conservation goals both in terms of economics and environmental conservation and has a positive influence towards government, management, and NGO sides. If mangrove conservation is not carried out based on the results of the study [23], it explains that the rapid decline of mangrove forests in many parts of the world today have caused significant environmental and economic products, as well as services loss including forest products, food, and fish habitat.

The test that revealed whether all indicators used are able to reflect the potential of the mangrove ecosystem can be seen on the analysis' report in Table 10 as follows.

Table 10. Discriminant validity (cross loading) and reliability (composite reliability) of potential mangrove ecosystem variable (X1).

Indicator	X1	X2	X3	X4	Y1	Y2	CR
X1.1	0.757	0.431	0.510	0.589	0.467	0.410	0.863
X1.2	0.720	0.462	0.511	0.479	0.348	0.402	
X1.3	0.717	0.613	0.547	0.484	0.401	0.427	
X1.4	0.765	0.480	0.554	0.603	0.506	0.526	
X1.5	0.772	0.527	0.545	0.532	0.512	0.455	

Based on Table 10, it could be seen that these indicators tended towards discriminant validity. Therefore, the indicators could be concluded as valid. Besides, the CR (critical ratio) value of this measurement model was 0.863, it meant that this value was more than 0.70. Thus, indicator of species diversity (X1.1), initial environmental condition (X1.2), mangrove vegetation (X1.3), mangrove forest conservation (X1.4), and ideal condition (X1.5) used to reflect variables the potential of mangrove ecosystems (X1) in addition to being valid were also reliable. Therefore, the indicators forming potential

of mangrove ecosystem variable (X1) were suitable to be employed within the analysis of the structural model (inner model). The first hypothesis which inferred that the potential of mangrove ecosystem was reflected in indicator of species diversity (X1.1), initial environmental condition (X1.2), mangrove vegetation (X1.3), mangrove forest conservation (X1.4), and ideal condition (X1.5) was proven to be true or truth-tested.

4.2.2. Perception of Coastal Communities (X2)

The second hypothesis in this study was that the perception of Coastal Community indicator (X2) was manifested or reflected in the indicators of Interpretation (X2.1), Sensation/Sensing (X2.2), Attention (X2.3), Attitude and Behavior (X2.4), and Benefit Principle (X2.5). This hypothesis would be proven as true or false on Table 11 as follows.

Table 11. Convergent validity (outer loading) of coastal community perception (X2).

Indicator	Outer Loading	Standard Deviation (SD)	Standard Error (STERR)	T Statistics (O/STERR)
X2.1	0.832	0.047	0.047	17.846
X2.2	0.810	0.040	0.040	20.238
X2.3	0.848	0.035	0.035	24.048
X2.4	0.759	0.047	0.047	16.193
X2.5	0.675	0.068	0.068	9.874

Based on Table 11, all outer indicators of X2 were worth more than 0.50, so that these five indicators could be used in subsequent analyzes. Therefore, it could be stated that the research instrument used to explore the perception data of coastal community was able to meet the convergent validity requirements. If it is viewed based on the outer loading value, the perception of coastal community can be reflected as follows: interpretation, sensation/sensing, attention, attitude and behavior, and benefit principle. The most dominant variable sequence in reflecting perception of coastal community were namely as, the attention indicator (0.848), interpretation indicator (0.832), sensing/sensation indicator (0.810), and attitude and behavior indicator (0.759). The most dominant perception of coastal community was determined by attention indicator since it had the largest outer loading. That result is consistent with the opinion of Reference [24], that one of the factors that plays a role in building perception was Attention as the concentration or centralization of all individual activities aimed at a set of objects that will be perceived. If it is associated with the operational definition, attention is the respondent's perception that everyone has a sense of desire to know clearly an object, a role facilitated obtaining information that is considered as new and important and an option as an assessment decision can be set easily. Furthermore, the definition also portrayed that people within the study already had a high awareness on the importance of wanting to know the object, the role of new information, the decision making related to community choice clearly.

The results of this study is in accordance with the results of the study from Reference [14], that the development of human resources supporting the Blue Economy (balanced economy, ecology, social) is formed by decision making indicator. High curiosity from coastal community in this research area showed that the community's ability was good. This is supported by the result of the conducted study of Reference [25], that human resources capabilities are formed by knowledge/intelligence, skills, and traits indicator. The dominant perception of coastal community was reflected in high curiosity and the consideration of taking new information related to the conservation and protection of forests including mangrove forests as very important, was accurate. It is supported by the results of a studies from References [16,26] which states that intentionally or unintentionally, natural resources, such as protected forests and conservation forests, suffered from serious damage. It can be caused by the misperception of community paradigm in understanding the environmental system and benefits of

natural resources. The wrong paradigm begins with ignorance and inability to assess and conduct economic assessments of natural resources.

The test displayed the indicator of interpretation, sensing/sensation, attention, attitudes, and behavior and benefits principles reflecting the perception of coastal communities, is presented in Table 12 as follows.

Table 12. Discriminant validity (cross loading) and reliability (composite reliability) of perception of coastal community variable (X2).

Indicator	X1	X2	X3	X4	Y1	Y2	CR
X2.1	0.495	0.831	0.540	0.532	0.575	0.578	0.890
X2.2	0.568	0.810	0.605	0.628	0.572	0.562	
X2.3	0.553	0.847	0.565	0.642	0.641	0.568	
X2.4	0.507	0.763	0.436	0.521	0.515	0.441	
X2.5	0.529	0.672	0.569	0.620	0.476	0.420	

Table 12, the value of cross-loading indicator that had the greatest value on variables was the perception of coastal community (X2). It depicted that these indicators tended towards discriminant validity. Therefore, these indicators could be assumed to be valid. Besides, the CR (Ccritical ratio) value of this measurement model was 0.890, which meant this value was higher than 0.70. Thus, indicators of interpretation (X2.1), sensing/sensation (X2.2), attention (X2.3), attitude and behavior (X2.4), and benefit principle (X2.5) that were used to reflect Coastal community perception variables (X2) in addition to being valid, were also reliable. Therefore, the indicators forming the perception of the coastal community variable were feasible to be used in the analysis of the structural model (inner model). The second hypothesis which assumed the coastal community perceptions reflected in indicators of interpretation (X2.1), sensing/sensation (X2.2), attention (X2.3), attitude and behavior (X2.4), and benefit principles (X2.5) was proven to be true or validated.

4.2.3. Coastal Tourism Facility Variable (X3)

The third hypothesis in this study that was inferred as indicator of coastal tourism facilities reflected in indicators were Tourism Infrastructure (X3.1), Tourism Facilities (X3.2), Tourism Object (X3.3), Tourist Products (X3.4), and Tourist Attraction (X3.5). The validation of this hypothesis is explained based on Table 13 as follows.

Table 13. Convergent validity (outer loading) variable indicator for coastal tourism facility (X3).

Indicator	Outer Loading	Standard Deviation (SD)	Standard Error (STERR)	T Statistics (O/STERR)
X3.1	0.706	0.051	0.051	13.769
X3.2	0.756	0.050	0.050	15.171
X3.3	0.765	0.061	0.061	12.770
X3.4	0.711	0.066	0.066	10.823
X3.5	0.772	0.048	0.048	16.105

Based on Table 13, all X3 outer indicators were valued more than 0.50; therefore, these five indicators could be administered in the subsequent analysis. Moreover, it could be said that the research instrument used to explore data on coastal tourism facilities was able to meet convergent validity requirements. The number shown in the outer loading value indicated the extent to which the indicators could reflect the latent variable. When it was viewed based on the outer loading value, the coastal tourism facilities could be reflected in tourism infrastructure, tourism facilities, tourism objects, tourist products and tourist attractions. Coastal tourism facility was predominantly determined by tourist attraction indicator since this indicator had the largest outer loading. This is in accordance with Law No. 10/2009, tourist attractiveness shall mean anything having uniqueness,

beauty, and value in terms of natural wealth, culture diversity, and the man-made results being the target or destination of the tourists visit. If it is associated with the definition of tourist attraction, it is meant as the respondent's perception of the distinctive, unique, interesting, and competitive nature. Human resources who have the skills and artistic value to design a blend of natural diversity, culture, local wisdom, and man-made results, will increase the number of tourist visits. Increasing tourist visits has a positive effect on local community income and village income.

The hypotheses test showing that tourism infrastructure, tourism facilities, tourism objects, tourism products and tourist attraction may reflect coastal tourism facilities is displayed in Table 14 as follows.

Table 14. Discriminant validity (cross loading) and reliability (composite reliability) of coastal tourism facility variable (X3).

Indicator	X1	X2	X3	X4	Y1	Y2	CR
X3.1	0.396	0.370	0.706	0.439	0.462	0.436	0.863
X3.2	0.499	0.444	0.754	0.523	0.451	0.418	
X3.3	0.593	0.554	0.773	0.632	0.471	0.510	
X3.4	0.593	0.641	0.716	0.658	0.521	0.406	
X3.5	0.573	0.549	0.780	0.643	0.541	0.461	

Table 14, the value of cross-loading indicator that had the greatest value on variables was the Coastal Tourism Facility Variable (X3). It depicted that these indicators tended towards discriminant validity. Therefore, these indicators could be stated as valid indicators. Moreover, the CR (critical ratio) value of this measurement model was 0.863, it was higher than 0.70. Thus, the indicators used to reflect the variable coastal tourism facility (X3), in addition to being valid were also considered as reliable. Therefore, the indicators forming the coastal tourism facility (X3) variable were suitable to be used in the analysis of the structural model (inner model). The third hypothesis which assumed that coastal tourism facility (X3) were reflected in tourism infrastructure indicator (X3.1), tourism facility (X3.2), tourism objects (3.3), tourist products (3.4), and tourist attraction (3.5) was proven correct or truthfully tested.

4.2.4. Coastal Ecotourism Variable (X4)

The fourth hypothesis in this study that inferred as the indicators of coastal ecotourism (X4) were natural tourism (X4.1), culinary tourism (X4.2), educational tourism (X4.3), local wisdom (X4.4), and tourism businesses (X4.5). Table 15 explains the truthfully tested hypotheses as follows.

Table 15. Convergent validity (outer loading) variable indicators for coastal ecotourism (X4).

Indicator	Outer Loading	Standard Deviation (SD)	Standard Error (STERR)	T Statistics (O/STERR)
X4.1	0.613	0.070	0.070	8.687
X4.2	0.735	0.067	0.067	11.075
X4.3	0.742	0.055	0.055	13.674
X4.4	0.810	0.039	0.039	20.549
X4.5	0.734	0.048	0.048	15.301

Based on Table 15, all X4 outer indicators were worth more than 0.50, so these five indicators could be used in subsequent analyzes. Therefore, it could be affirmed that the research instrument used to explore Coastal Ecotourism data (X4) have met the convergent validity requirements. The number shown in the outer loading value indicated the extent to which the indicators could reflect the latent variable. If it was perceived based on the value of outer loading, the Coastal Ecotourism (X4) that could be reflected in coastal ecotourism (X4) were as follows: natural tourism (X4.1), culinary tourism (X4.2), educational tourism (X4.3), local wisdom (X4.4), and tourism business (X4.5). Coastal ecotourism

predominantly determined by the indicators of local wisdom, because this indicator had the largest outer loadings. This was in accordance with Law No. 10 (2009), that the availability of everything that had uniqueness, beauty and value in the form of cultural diversity of natural wealth and man-made results were considered as the target and tourist attraction of tourist visits. The operational definition of local wisdom was the respondent's perception of the role of tourism as a form of community compliance with the social rules that apply in their environment. Tourism promoted benefits to foster a proactive attitude and creativity in manifesting the Independent Community by promoting the value of wisdom amid the effects of globalization; and it also boosted the benefits of maintaining and retaining the sustainability of local wealth owned by the Village.

Hypothesis testing portraying the indicators of coastal ecotourism namely natural tourism (X4.1), culinary tourism (X4.2), educational tourism (X4.3), local wisdom (X4.4), and tourism business (X4.5) could reflect coastal ecotourism can be seen in Table 16 as follows.

Table 16. Discriminant validity (cross loading) and reliability (composite reliability) of coastal ecotourism variable (X4).

Indicator	X1	X2	X3	X4	Y1	Y2	CR
X4.1	0.510	0.497	0.483	0.612	0.356	0.446	0.852
X4.2	0.486	0.498	0.591	0.741	0.488	0.462	
X4.3	0.568	0.526	0.547	0.749	0.628	0.525	
X4.4	0.550	0.618	0.628	0.810	0.649	0.649	
X4.5	0.543	0.584	0.603	0.735	0.530	0.529	

Table 16, the value of cross-loading indicators of natural tourism (X4.1), culinary tourism (X4.2), educational tourism (X4.3), local wisdom (X4.4), and tourism business (X4.5) disclosed that the largest indicator was the coastal ecotourism facility variable (X4). This indicated that these indicators tended toward discriminant validity. Therefore, these indicators could be affirmed as valid indicators. In addition, the CR (critical ratio) value of this measurement model is 0.852, which had a higher value than 0.70. Thus, the indicators used to reflect coastal ecotourism variables, in addition to being valid may also be considered as reliable. Therefore, the indicators forming the coastal ecotourism variables were feasible to be used in the analysis of the structural model (inner model). The fourth hypothesis which assumed that coastal ecotourism was reflected in the following indicators, namely natural tourism (X4.1), culinary tourism (X4.2), educational tourism (X4.3), local wisdom (X4.4), and tourism businesses (X4.5) was proven to be true or it had been truthfully tested.

4.2.5. Management of Coastal Tourist Village Variable (Y1)

The fifth hypothesis in this study was that the suspected indicators of coastal tourist village management (Y1) were Regulation (Y1.1), Financing (Y1.2), Institutional (Y1.3), Development approach (Y1.4) and Marketing (Y1.5). The validation results of the analysis of this hypothesis are proven in Table 17 as follows.

Table 17. Convergent validity (outer loading) variable indicator for coastal tourist village management (Y1).

Indicator	Outer Loading	Standard Deviation (SD)	Standard Error (STERR)	T Statistics (O/STERR)
Y1.1	0.690	0.064	0.064	10.724
Y1.2	0.720	0.057	0.057	12.787
Y1.3	0.715	0.054	0.054	13.291
Y1.4	0.802	0.039	0.039	20.723
Y1.5	0.766	0.059	0.059	13.115

Based on Table 17, all Y1 outer indicators were worth more than 0.50, hence, these five indicators could be executed in subsequent analyzes. In addition, it could be concluded that the research instrument used to explore data on Coastal Tourism Management was able to meet the convergent validity requirements. Based on the outer loading value, Coastal Tourist Village Management (Y1) could be reflected in Regulation (Y1.1), Financing (Y1.2), Institutional (Y1.3), Development approach (Y1.4), and Marketing (Y1.5). The most dominant Management of Coastal Tourism Village was determined by the development of approach indicator, because this indicator had the largest outer loading. This was in accordance with Reference [27] statement saying that a strategy step was needed in formulating a plan of activities through a development approach that determined the goals and direction of action and the allocation of resources needed to achieve the goals.

The development approach was the respondent's perception of the role of development as a guide to resource management by prioritizing preservation and long-term oriented aspects. Furthermore, the role of development was balancing tourism development activities with natural conditions and local location characteristics. It also oriented to the value of benefits for local communities and the role of development in regulating harmony between tourism development needs, the environment and local communities.

Hypothesis testing portraying that the Regulatory indicators (Y1.1), Financing (Y1.2), Institutional (Y1.3), Development approach (Y1.4), and Marketing (Y1.5) can reflect the coastal tourist village management results, are presented within analysis in Table 18 as follows.

Table 18. Discriminant validity (cross loading) and reliability (composite reliability) of coastal tourism management variable (Y3).

Indicator	X1	X2	X3	X4	Y1	Y2	CR
Y1.1	0.415	0.515	0.536	0.534	0.690	0.561	0.861
Y1.2	0.326	0.536	0.362	0.447	0.727	0.577	
Y1.3	0.452	0.588	0.384	0.527	0.718	0.534	
Y1.4	0.506	0.483	0.646	0.636	0.804	0.612	
Y1.5	0.542	0.527	0.495	0.595	0.774	0.569	

Based on Table 18, cross-loading of the Regulatory indicators (Y1.1), Financing (Y1.2), Institutional (Y1.3), Development approaches (Y1.4), and Marketing (Y1.5) displayed the greatest value of management variables coastal tourism village (Y1). This shows that these indicators tended towards discriminant validity. Therefore, these indicators could be assumed as valid indicators. In addition, the CR (critical ratio) value of this measurement model was 0.861 which was higher than 0.70. Thus, the Regulatory indicator (Y1.1), Financing (Y1.2), Institutional (Y1.3), Development approach (Y1.4), and Marketing (Y1.5) used to reflect the variables of coastal tourism village management (Y1) were also reliable, in addition to being valid. Therefore, the indicators forming the variables of coastal village management (Y1) were suitable to be utilized in the analysis of the structural model (inner model). The fifth hypothesis suggested that coastal tourism village management reflected in the Regulations (Y1.1), Financing (Y1.2), Institutional (Y1.3) indicators, Development approaches (Y1.4) and Marketing (Y1.5) was proven to be true or truthfully tested.

4.2.6. Independent Coastal Tourist Village Variable (Y2)

To prove the sixth hypothesis in this study stating that the inferred indicators of independent coastal tourist village variable (Y2) were respondents' perceptions related to natural resource potential (Y2.1), village potential development (Y2.2), villagers participation (Y2.3), villagers empowerment (Y2.4), village-owned enterprise/BUMDes (Y2.5), inter-village cooperation (Y2.6), and village autonomy (Y2.7); the indicators are thoroughly explained on Table 19 below.

Table 19. Convergent validity (outer loading) variable indicators of independent coastal tourist village (Y2).

Indicator	Outer Loading	Standard Deviation (SD)	Standard Error (STERR)	T Statistics (O/STERR)
Y2.1	0.752	0.048	0.048	15.901
Y2.2	0.700	0.076	0.076	9.350
Y2.3	0.753	0.053	0.053	14.214
Y2.4	0.702	0.055	0.055	12.777
Y2.5	0.780	0.048	0.048	16.291
Y2.6	0.671	0.083	0.083	8.258
Y2.7	0.676	0.065	0.065	10.455

Based on Table 19, all outer indicators of Y2 were worth more than 0.50, hence these five indicators could be used in subsequent analyzes. It could be affirmed that the research instrument used to explore the data of the Independent Coastal Tourist Village (Y2) was able to meet the convergent validity requirements. It also meant that the research instrument consisting of indicators of natural resource potential (Y2.1), village potential development (Y2.2), villagers participation (Y2.3), villagers empowerment (Y2.4), village-owned enterprises/BUMDes (Y2.5), inter-village cooperation (Y2.6), and village autonomy (Y2.7) could be administered to measure the Coastal Tourism Village Management variables (Y1). Based on the value of outer loading, the independent Coastal Tourist Village (Y2) could be reflected in the potential of natural resources (Y2.1), the development of village potential (Y2.2), villagers participation (Y2.3), villagers empowerment (Y2.4), Village-owned enterprises/BUMDes (Y2.5), inter-village cooperation (Y2.6) and village autonomy (Y2.7). The independent coastal tourist village was predominantly determined by indicator of village-owned business enterprise/BUMDes since this indicator had the largest outer loadings. This was in accordance with the opinion of [28], that regulated the establishment of village-owned business entity (BUMDes) which was intended to manage assets, resource potential, services, and other businesses for the maximum possible welfare of the village community and also as a source of original village income. Village-owned business entity/BUMDes is the respondent's perception of the role of BUMDes as a community economic institution that has a strategic function of running a business in the economic field and public services in the village; the role of BUMDes in increasing the income of rural communities and as a source of village original income through the management of village assets and the available natural resource potential.

Test hypotheses showing that the indicators of natural resource potential (Y2.1), village potential development (Y2.2), villagers participation (Y2.3), villagers empowerment (Y2.4), village-owned enterprises/BUMDes (Y2.5), inter-village cooperation (Y2.6), and village autonomy (Y2.7) could reflect the Coastal Tourism Independent Village can be seen in Table 20 below.

Table 20. Discriminant validity (cross loading) and reliability (composite reliability) of independent coastal tourist village variable (Y2).

Indicator	X1	X2	X3	X4	Y1	Y2	CR
Y2.1	0.532	0.467	0.493	0.590	0.513	0.757	0.886
Y2.2	0.494	0.439	0.398	0.459	0.442	0.708	
Y2.3	0.427	0.482	0.442	0.496	0.551	0.758	
Y2.4	0.438	0.487	0.466	0.590	0.568	0.704	
Y2.5	0.418	0.526	0.499	0.604	0.655	0.784	
Y2.6	0.357	0.439	0.314	0.393	0.543	0.682	
Y2.7	0.381	0.489	0.406	0.495	0.594	0.676	

Based on Table 20, cross-loading indicators of natural resource potential (Y2.1), village potential development (Y2.2), villagers participation (Y2.3), villagers empowerment (Y2.4), village-owned business entity/BUMDes (Y2.5), inter-village cooperation (Y2.6), and village autonomy (Y2.7) portrayed the greatest value of the variable coastal tourism Independent Village (Y2). This depicted

that these indicators tended towards discriminant validity. Therefore, these indicators could also be said as valid indicators. Moreover, the CR (critical ratio) value of this measurement model was 0.886 which was higher than 0.70. Thus, the following indicators, namely natural resource potential (Y2.1), village potential development (Y2.2), villagers participation (Y2.3), villagers empowerment (Y2.4), village-owned enterprises/BUMDes (Y2.5), inter-village cooperation (Y2.6), and village autonomy (Y2.7) which were used to reflect the variables of independent coastal tourist village (Y2) were also reliable. In addition to previous explanation, the indicators that form the variable of independent coastal tourist village (Y2) were considered to be suitable to be used in the analysis of the structural model (inner model). The sixth hypothesis suggested that independent coastal tourist village was reflected or portrayed in the following indicators, namely natural resource potential (Y2.1), development of village potential (Y2.2), villagers participation (Y2.3), villagers empowerment (Y2.4), Village-owned enterprises/BUMDes (Y2.5), inter-village cooperation (Y2.6), and village autonomy (Y2.7) was proven to be true or truthfully tested.

4.3. Goodness-of-Fit of Structural Model (Inner Model)

After obtaining a measurement model of latent variables which were valid and reliable, the results of the measurement will be used in the analysis of structural models or inner models. The evaluation of the inner goodness of fit model of each endogenous latent variable was determined based on the R-square value or coefficient of determination. The goodness of fit of structural model as a whole was measured by Q2 predictive relevance. A structural model was declared to be good fit if it had Q2 predictive relevance > 0.50. The R-square value in the structural model of this study is presented in Table 21 below.

Table 21. The R-square of latent variables of structural model.

Latent Variable	R Square
Mangrove ecosystem potential (X1)	1
Coastal community perception (X2)	1
Coastal tourism facility (X3)	1
Coastal ecotourism (X4)	1
Coastal tourist village management (Y1)	0.609
Independent coastal tourist village (Y2)	0.648

Based on the R-square values of the two endogenous latent variables presented in Table 21, the management of coastal tourist village (Y1) and independent coastal tourist village (Y2) could determine the predictive relevance Q2 value, namely

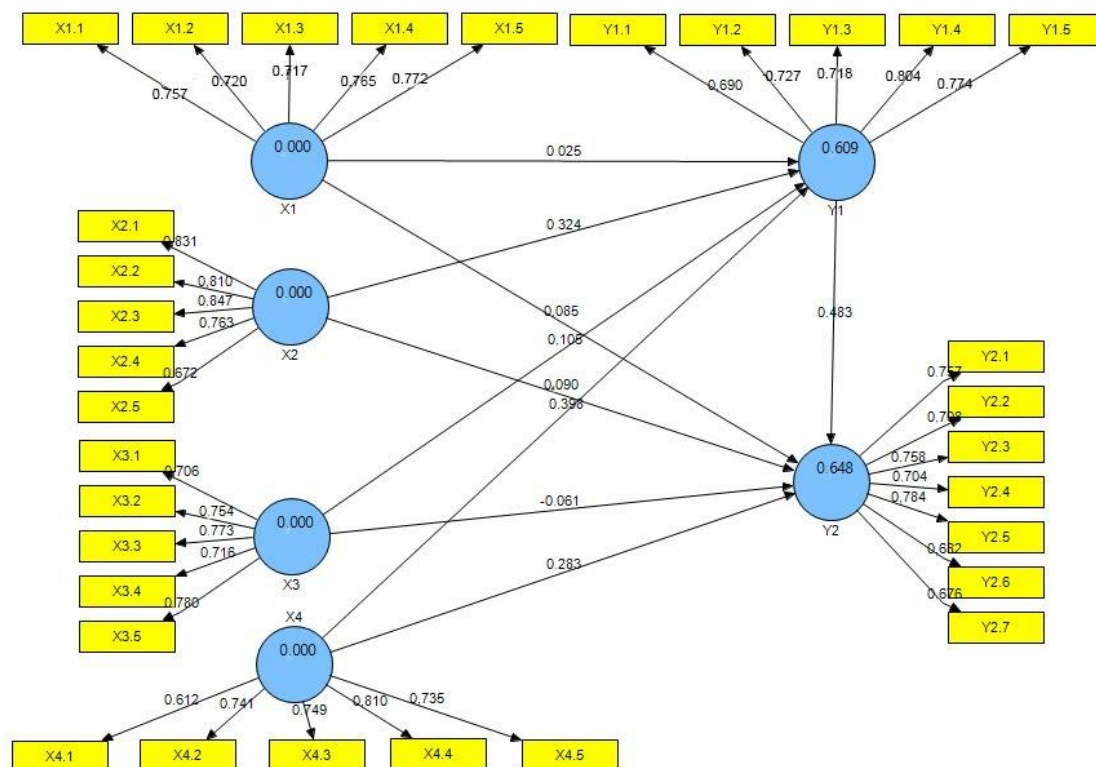
$$Q2 = 1 - (1 - 0.609) (1 - 0.648) = 0.862 = 86.2\% \quad (2)$$

This value indicated that about 86.2% of the diversity of latent endogenous variables in the structural model could be explained by the model formed from exogenous variables, namely the potential of mangrove ecosystems (X1), the perception of coastal community (X2), coastal tourism facilities (X3), coastal ecotourism (X4), while the remaining 13.8% was explained by other variables outside the model and error. Because the Q2 value of predictive relevance was more than 0.50, it could be inferred that this structural model was good fit. An exogenous latent variable was said to affect endogenous latent variables if T statistics were worth more than 1.96 or less than −1.96. The test results are shown in Table 22 below.

Table 22. Hypothesis testing results relationship between latent variables.

Latent Variables Relationship	Original Sample (O)	T Statistics (O/STERR)	Result
X1 -> Y1	0.025	0.178	Not significant
X1 -> Y2	0.085	0.735	Not significant
X2 -> Y1	0.324	2.589	Significant
X2 -> Y2	0.090	0.734	Not significant
X3 -> Y1	0.105	0.896	Not significant
X3 -> Y2	−0.061	0.477	Not significant
X4 -> Y1	0.398	2.839	Significant
X4 -> Y2	0.283	1.829	Not significant
Y1 -> Y2	0.483	4.393	Significant

Based on the test results in Table 22, it could be asserted that: coastal community perception variable (X2) had a positive and significant effect on coastal tourism village management variables (Y1); coastal ecotourism variable (X4) had a positive and significant effect on the variable of coastal tourism management (Y1); meanwhile the variable of coastal tourism village management (Y1) contributed a positive and significant effect on independent coastal tourist village (Y2). The model for improving the management of coastal tourism villages in manifesting an independent village of coastal tourism is illustrated in the following Figure 3.

**Figure 3.** An improved model of coastal tourism village management in manifesting an independent coastal tourism village.

Based on this model, it could be stated that independent village of coastal tourism could be directly pursued through the management of good coastal tourist village (because the Y1 variable was a good moderator). Furthermore, the management of coastal tourist village was strongly influenced by the perception of coastal tourist communities and coastal ecotourism. Therefore, these two variables also indirectly affected the independent villages of coastal tourism through the management of coastal tourist villages. In another sense, the management of coastal tourist villages became a strong mediator

between community perceptions and coastal ecotourism in realizing an independent village of coastal tourism. Management of the coastal tourist village became an important variable, the decision of the management of a sustainable tourism destination will be successful if there is political support and sufficient planning from decision-makers. It is supported by the results of a studies from Reference [29].

5. Conclusions

From the scenario results in this research model, it can be concluded that the management of a coastal tourist village was strongly affected by society perception and a coastal ecotourism variable, while the endogenous variable of coastal tourist village management became a strong mediator to develop an independent coastal tourist village. There was a positive and significant influence between coastal tourist village management towards independent coastal tourist village. Thus a good management of tourist village is required to develop an independent coastal tourist village.

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