Review Form Response

Review Form for Article

● Yes, it is No, it is not Is the description of methods adequate for replication by others (if not a standard method)? * ● Yes, it is No, it is not Are all the tables and figures self-explanatory and necessary? * ● Yes, they are No, they are not Is the discussion adequate? * ● Yes, it is No, it is not Are there any important publications on the topic that the authors have missed? * ● Yes, there are No, there are not Are there any evidence errors? * ● Yes, there are No, there are not If the article can be shortened, can you recommend which part(s) to be deleted or shortened? * Introduction. Giving a wider readership and Literatur context at the beginning of the introduction is very good, but please not too much. I suggest making it shorter to directly engage in the main pieces of literature and the foundation of the state of the art of this research. Do not start with empirical context, but please start with theory literature. Those paragraphs should be elaborated to answer, "Why does your article/research topic matter? (in term of literature and context) Can you comment on the specific originality and usefulness of the article? * I suggest in the conclusion, rather than giving the common sense of practical recomendations, it is better to discuss its finding by reffering back to literature, what is this research contribite to the science or exixting state of the art, or the theoretical relevance of this research Decision upon review is: * Not worthy for publication with major revisions and I would like to get the revised version from the authors. Worthy for publication with major revisions and it isnot necessary to send me the revised version from the authors.	Is the title of the article usefull and appropriate? *
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Additional comments for the author

The study topic is interesting. However, there are some strong concerns about publishing this manuscript as a scientific paper.

Firstly, the result is redundant and unclear. There is also a lack of specific descriptions of the figures. Therefore, it makes readers difficult to understand the key results of this paper.

Secondly, the results are not fully discussed. More than just comparing results with previous studies, it is necessary to consider why the results were obtained. Also, you should mention what are the significance and limitation of this study.

Thirdly, this paper has many grammar mistakes. Those mistakes must be corrected for publication. English proofreading is required.

For the reasons stated above, I require you to respond the following comments and resubmit the revised manuscript.

Abstract

- 1. [L1-2] Critical Factors and Institutional Role in Strengthening Capacity of National Parks
- The title is vague and unclear. You should give a more specific title. For example, "Critical Factors and Institutional Role in Strengthening Capacity of National Parks: Case of Meru Betiri National Park, Indonesia" or "Critical Factors and Institutional Role in Strengthening Capacity of National Parks: Analysis of Meru Betiri National Park, Indonesia using Interpretative Structural Modeling."
- 2. [L7, L9] parks
- Which do you mean park (*singular*) or parks (*plural*)?
- 3. [L10-12] Collecting data and information by interviews with experts, management of Meru Betiri National Parks, Jember District Government, then Focus Group Discussion with stakeholders and farmers
- ➤ Incomplete sentence (lack of *verb*)

Introduction

- 4. [L24-27] The National Park preserves the unimpaired natural and cultural resources, it has a very important functions, such as a life support system to protect and maintain biodiversity, regulate water management, prevent flooding and erosion, prevent seawater intrusion, maintain soil fertility and a place for recreation as well as education for the community (Harte, 2000).
- ► Incomplete sentence (lack of *conjunction*)
- 5. [L27-28] Meru Betiri National Park is a protected forest by the government of Indonesia, the area located between Jember District and Banyuwangi district.
- ➤ Incomplete sentence (lack of *conjunction*)

- 6. [L31] From 1998 to now, the park has various security problems.
- > Check the *tense* (From 1998 to now, the park has been having various security problems).
- 7. [L32-36] Based on the best practice in the management of national parks in several places in the world showed that the conservation of a national park was well maintained by cooperation between the authorities and the local community, the cooperation provides social-economic benefits for the surrounding community (Sharpley and Naidoo, 2010; Snyman, 2014; Anup, 2016; Acquah et al., 2017; Perrotton et al., 2017)
- ➤ Incomplete sentence (lack of *subject* and *conjunction*)
- 8. [L36-38] For the reason, the park took a strategic policy, it was making the villages around the Meru Betiri National Park to be a conservation and ecotourism village that the local communities were empowered and involved to maintain the security and rehabilitation of the area.
- ➤ Incomplete sentence (lack of *conjunction*)
- 9. [L39-40] The policy began in 2003, the management of Meru Betiri National Park made a regional rehabilitation partnership program.
- Incomplete sentence (lack of *conjunction*)
- 10. [L41-42] The aim of the program to reduce the number of poor people in the area so they were not to be the trigger security disturbances in the Meru Betiri area.
- Incomplete sentence (lack of *verb*)

 The aim of the program was to reduce the number of poor people in the area so they were not to be the trigger for security disturbances in the Meru Betiri area.
- 11. [L42-44] The villagers around the park participating in the program were empowered through the partnership program, the group gathered called the Center for Rural Forestry Extension (CRFE).
- ➤ Incomplete sentence (lack of *conjunction*)
- 12. [L46-48] After community empowerment partnership program has been going on for more than twelve years, it turned out, the economic development of communities around the Meru Betiri National Park has not changed significantly.
- Incomplete sentence
 After community empowerment partnership program has been going on for more than twelve years, it turned out that the economic development of communities around the Meru Betiri National Park had not changed significantly.
- 13. [L49-51] Meanwhile, the growth of rehabilitation plants in the deforested area which has expected to become a vegetation cover of damaged land in the Meru Betiri National Park growing slowly, however it has been planted for more than thirteen years.
- > Incomplete (lack of *verb*) and unclear sentence

REVISION REPORTS

Abstract

1. [L1-2] Critical factors and Institutional Role in Strengthening Capacity of National Parks. The title is vague and unclear you should give a more specific title.

[R1-2] We thank the reviewers for suggestion to give a more specific title and we have revised the title to "Critical factors and Institutional Role in Strengthening Capacity of National Parks: Analysis of Meru Betiri National Park, Indonesia using Interpretative Structural Modelling"

2. [L7-9] Which do you mean park or parks?

[R7-9] We thank the reviewer for pointing this out and we revised it to be park.

3. [L10-12] Collecting data and information by interviews with experts, management of Meru Betiri National Parks, Jember District Government then Focus Group Discussion with stakeholders and farmers.

Incomplete sentence (lack of verb)

[R10-12] Along with the suggestion from reviewer, we modified as follows: Data and information collection was carried out through interviews with experts, management of Meru Betiri National Park, Jember Regency Government and then Focus Group Discussions with stakeholders and farmers.

Introduction

4. [L24-27] The National Park preserve the unimpaired natural and culture resources, it has a very important functions, such as a life support system, to protect and maintain biodiversity, regulate water management, prevent flooding and erosion, prevent sea water intrusion, maintain soil fertility, and a place for recreation as well as education for the community (Harte, 2000). Incomplete sentence (lack of conjunction)

[R24-27] Along with the suggestion from reviewer, we modified as follows:

The National Park preserves the unimpaired natural and cultural resources, it has a very important function, such as the life support system, protect and maintain biodiversity, regulate water management, prevent flooding and erosion, prevent seawater intrusion, maintain soil fertility, and a place for recreation as well as education for the community (Harte, 2000).

5. [L27-28] Meru Betiri National Park is protected forest by the government of Indonesia, the area located between Jember district and Banyuwangi district.

Incomplete sentence (lack of conjunction)

[R27-28] As suggested by reviewers, we complete the conjugation.

Critical factors and Institutional Role in Strengthening Capacity of National Parks: Analysis of Meru Betiri National Park, Indonesia using Interpretative Structural Modeling

Merry Muspita Dyah Utami^{1*}, Hari Rujito², Hendra Yufit Riskiawan3, Didiek Hermanuadi⁴

¹Department of Animal Science, Politeknik Negeri Jember, Jl. Mastrip PO Box 164 Jember, Indonesia 68121 ²Department of Agribusiness Management, Politeknik Negeri Jember, Jl. Mastrip PO Box 164 Jember, Indonesia 68121

³Department of Information Technology, Politeknik Negeri Jember, Jl. Mastrip PO Box 164 Jember, Indonesia 6812

⁴Department of Agricultural Technology, Politeknik Negeri Jember, Jl. Mastrip PO Box 164 Jember, Indonesia 6812

Abstract

There are several factors suspected of ineffective rehabilitation and conservation of the Meru Betiri National Park. These important factors need to be identified to improve the management of the park. The purpose of this study was to identify and examine the relationship between the factors that influence the achievement of rehabilitation and conservation of the park. The method of this research used a systematic approach to be identified, analyzed, and explained the influential critical factors. Data and information collection was carried out through interviews with experts, management of Meru Betiri National Park, Jember Regency Government and then Focus Group Discussions with stakeholders and farmers. The information and data obtained were analyzed using Interpretative Structural Modeling (ISM). The results showed the three critical factors in achieving the purpose of the programs, such as the synergy between the management of the park and Jember district government; availability of appropriate technology; and the development of institutional capacity for local communities, then the three critical factors of institutional role are Meru Betiri National Park; Jember Regency Planning and Development Agency; and Higher Education. The implication of this study is a policy intervention is needed to improve the management of Meru Betiri National Park in the future.

Keywords Meru Betiri, Amplification, Rehabilitation, Conservation

*Correspondence author, email: merry.mdu@polije.ac.id, telp. +62331333532, fax.+62331333531

Introduction

The National Park preserves the unimpaired natural and cultural resources, it has a very important function, such as the life support system, protect and maintain biodiversity, regulate water management, prevent flooding and erosion, prevent seawater intrusion, maintain soil fertility, and a place for recreation as well as education for the community (Harte, 2000). Meru Betiri National Park is a forest protected by Indonesian government, this area is located between Jember Regency and Banyuwangi Regency. Through these very important functions, the government and the local community surround the park are required to maintain the preservation of Meru Betiri National Park.

From 1998 to now has been having various security problems. In 1998, there was illegal logging in the area (Darmadja et al., 2012). Based on best practices in managing national parks in several places in the world shows that preserve of national parks is carried out with good coordination between the authorities and the local community to provide socio-economic benefits for the surrounding community (Sharpley and Naido, 2010; Snyman, 2014; Anup, 2016; Acquah et al., 2017; Perroton et al., 2017). Therefore, the park adopted a strategic policy by making the villages around Meru Betiri National Park a conservation and ecotourism village by involving local communities to maintain security and rehabilitate the area.

[jmht] Editor Decision: Review



Efi Yuliati Yovi <jurnal@apps.ipb.ac.id>

Fri, Feb 7, 2020, 11:13 AM

to me

Dear Merry Muspita Dyah Utami, Merry Muspita Dyah Utami,

We have reached a decision regarding your submission to Jurnal Manajemen Hutan Tropika, "Critical Factors and Institutional Role in Strengthening Capacity of National Parks".

Our decision is to: Review

Please do revision properly based on the mentioned items and send back to us within 10 days. Send the revision file into http://journal.ipb.ac.id/index.php/jmht/

Kind regards,

Efi Yuliati Yovi (SCOPUS ID: 56021619600), Department of Forest Management, Faculty of Forestry, Bogor Agricultural University Phone +622518621244 eyyovi@ipb.ac.id

[jmht] New notification from Jurnal Manajemen Hutan Tropika

Inbox



Efi Yuliati Yovi <jurnal@apps.ipb.ac.id>

Fri, Feb 7, 2020, 1:20 PM

to me

You have a new notification from Jurnal Manajemen Hutan Tropika:

You have been added to a discussion titled "Request for MS word maintext" regarding the submission "Critical Factors and Institutional Role in Strengthening Capacity of National Parks".

Link: http://journal.ipb.ac.id/index.php/jmht/authorDashboard/submission/28180

Dr. Efi Yuliati Yovi

http://journal.ipb.ac.id/index.php/jmht/

MS WORDS FILE REQUEST

Inbox



JMHT [IPB] <jmht@apps.ipb.ac.id>

Thu, Feb 13, 2020, 2:30 PM

to me

Dear Dr. Merry

I am Editor in Chief of JMHT, and a manuscript you submitted to us has been achieving the final decision stage. However, we ould not proceed to further stage because you use a PDF file version instead of MS WORD.

I already send you several emails regarding to this matter, and still no reply or confirmation from you.

Please send the MS WORD version soon, so we can proceed to the next necessary stage.

Thank you for our cooperation.

Dr. Efi Yuliati Yovi

Editor in Chief

In 2003, the management policy of the Meru Betiri National Park was started as a regional rehabilitation partnership program. In the initial stage, the program involved and empowered 5500 people living around the park to rehabilitate the area. The aim of the program is to reduce the number of poor people in the area so that they do not to become a trigger for security disturbances in the Meru Betiri area. The villagers around the park who participated in this program were empowered through a partnership program called the Center for Rural Forestry Expansion (CRFE). The CRFE generated the villagers by capital assistance, training, and other production facilities which funding by the management of Meru Betiri National Park.

The community empowerment program has been running for more than twelve years, but the economic development of the communities around Meru Betiri National Park has not changed significantly. The frequency of disruption to Meru Betiri forests in the form of illegal logging has the same from year to year (Rujito, 2016). Meanwhile, the growth of rehabilitation plants in Meru Betiri National Park growing slowly, even though it had been planted for more than thirteen years. These indicate that community empowerment and the effectiveness of the rehabilitation program were not in line with the targets. For this reason, the program needs to be improved through increasing the effectiveness of the collaboration which will have a positive impact on the security and conservation of natural resources and increasing the capacity of local communities in the area.

Several models of national park management in several places in the world can be used as a comparative study to improve national park management (Braasch et al., 2018). Based on some experiences in managing national parks, involving local communities to preserve national parks can be done through several alternative approaches, including adaptive management (Birgé et al., 2016), collaborative management (Ansell & Gash, 2008), and adaptive co-management (Fabricius & Currie, 2015).

General concepts management of national parks are based on ecological and social systems in the region (McGinnis and Ostrom, 2014; Mathevet et al., 2016) although ecological dynamics and social dynamics are difficult to predict (Dewulf et al., 2005; Brugnach et al., 2008; Allen and Gunderson, 2011).

There are several causes of the conflict of interest between the communities surrounding the national park and the national park management. For solving the problem, there are several models of collaboration between the stakeholders related to the national park (Braasch et al., 2018). Many problems in the program so that the program is ineffective based on research and preliminary observations by (Hall, 1999; Stringer et al., 2006; Idrissou et al., 2013).

One of the problems is the lack of strengthening the institutional capacity of the local communities in the villages due to the low awareness of the community to participate in empowerment programs. The community is not allowed to design an empowerment program, so that it happens a lack of initiative and participation of citizens in the program. Institutional aspect is one of the most important aspects of community empowerment. Others issues in the institutional aspects of local communities were lack of role and synergy among stakeholders (Rydin and Holman, 2004), lack of synergy between sectors, lack of synergy with government, lack of public access to capital (financial and production input), lack of marketing knowledge (Rydin and Pennington, 2000), lack of science and technology, the policymaking process, and lack of social capital (trust, togetherness, and networking) by (Nath, Inoue and Pretty, 2011).

Meanwhile, the network among small business in villages of the Meru Betiri National Park area is not going well. In rural areas, the important role of small businesses is providing additional income. The low networking inhibits the achievement of community empowerment so that so that business opportunities cannot be utilized optimally. As a result, the utilization of business opportunities is not optimal, declining value-added and low sales of production. This condition hinders the achievement of community empowerment. The purpose of this research was to evaluate the relationship of critical factors for the effectiveness of rehabilitation and securing conservation areas by the strengthening of local communities. The result of this research can be used as a basis for formulating policies for management to improve the management of Meru Betiri National Park.

Methods

The research method used a systematic approach to identify the key factors based on Interpretative Structural Modeling (ISM). This method is excellent for identifying relationships between specific element factors that cause problems in a system. This model is widely used by researchers to study the relationship between various kinds of elements causing problems in a system (Dev &Sharma, 2013). Lim et al. (2017) reported the ISM method involves qualitative and interpretative data to solve complex problems based on the mapping of the structure of relationships between attributes (elements or factors) followed by transformation into a multi-level structure model.

The basic idea to identify the elements factors of the system is based on the practical experience of competent practitioners and experts who know how to spell out a complex system into several elements and to build sub-elements on which a multi-level structure model (Mathiyazhagan et al., 2013). The ISM method identifies the elements and explains the direction of the relationship between the sub-elements of a system by describing the relationship between the specific elements of the system and the hierarchical sequence that cause the problems of the system through dependencies and the driving power in other elements (Mangla, 2014).

Participants in this study were stakeholders related to the Meru Betiri National Park area, including the management of Meru Betiri National Park, the District Development Planning Agency of Jember regency, the heads of local community groups, the heads of the villages in the Meru Betiri area, Department of Food Security and Animal Husbandry of Jember regency, the Forestry and Plantation Service of Jember regency, tourism agency and several regional university experts.

Each stakeholder group is assigned as the representative expert to represent the group by interviews, focus group discussions and filling out the questionnaires which are relevant to the problems or issues and continue with the group's problem solving (Attri et al., 2013).

There are several steps to implementing the ISM method, such as: identifying the elements in the system that are relevant to the problem, developing contextual relationships between elements for modeling purposes, and preparing a single Structural Self-Interaction Matrix (SSIM) which is intended to represent the perception of respondent perceptions for the relationship between elements. The relationship can be explained by the symbol- symbol as follows: V: if factor I will help to achieve factor J or to influence factor J, A: if factor J will help to achieve factor I or to influence factor I, X: if factors J help to achieve or to influence each other, and O: if factors I and J do not correlate or do not affect each other.

- Reachability Matrix (Reachability Matrix-RM) is by converting the SSIM matrix symbols into the binary matrix. Convert SSIM matrix into the RM matrix using the following rules:
- a. If in SSIM the relationship of element Ei to element Ej= V, then Ei= 1, and Ej= 0
- b. If in SSIM the relationship of element Ei to element Ej= A, then Ei= 0, and Ej= 1
- c. If in SSIM the relationship of the element Ei to the element Ej= X, then Eij= 1, and Eji= 1
- d. If in SSIM the relationship of the element Ei to the element Ej= O, then Eij= 0, and Eji= 0

The next step is to classify system elements into a mapping consists of four levels, namely: autonomous, dependent, linkage and independent. The classification of the elements in the ISM structure is distinguished based on the level of partitions. At this step, the two devices are associated with the Ei elements of the system. A set of reachability (Ri) is a set of all elements obtained from the elements Ei, and the other obtained from the elements of Ai. Canonical matrices have done by grouping elements into the same level in a matrix development for preparing of diagrams. The chart illustrates the relationship between the elements directly and the level of the hierarchy. The preparation stage for policy strategies based on interpretive structural models (Lamatinulu & Dahlan, 2017), in the context of this research, is the management of Meru Betiri National Park.

Results and Discussion

Based on the results of in-depth interviews and discussions and FGDs with Meru Betiri National Park experts and managers as well as FGDs from stakeholders (farmers, facilitators, village heads, community leaders), there are the two main factors (critical factors) are (a) Elements of the Purpose System; (b) Elements of the Institutional Role in the System.

Furthermore, contextual relationship assessment is performed on each sub element in each of the critical factors. The results of the study are in the form of structural information from the system (which includes rehabilitation, conservation and strengthening of local communities in the region) with an explanation of the hierarchical relationship between one sub element and other sub elements accompanied by the classification of sub elements based on the characteristics expressed in the level of driving power and the level of dependence on other sub elements.

Structural Model of Sub Elements in Critical Factors of "Purpose" Systems.

The results of identifying the types and several sub-elements as follows: T_1 = The development of ecotourism in the Meru Betiri National Park area, T2 = Development of Potential Regional Resources for Ecotourism and Economy of Local Communities, $T_3 = Conservation$ preserved of natural resources and the environment of Meru Betiri National Park, T₄= Meru Betiri National Park Rehabilitation Targets Achieved, T_5 = Provision of Job Opportunities for Local Communities, T_6 = Increased Local Community Income, T_7 = The security of the Meru Betiri National Park area is well maintained, T₈ = Synergy between Meru Betiri National Park with District Development Planning Agency and Higher Education, T9 = Strengthening the Institutional Capacity of the Meru Betiri National Park local community, T₁₀ = Availability of Supporting Technology for potential regional development, T₁₁ = Development of Local Community Empowerment in the Meru Betiri National Park area, T_{12} = High productivity of Crop Farming, Horticulture and Livestock Farming. then analyzed the level of interaction with ISM.

The first step is to study the contextual relationship in the form of a SSIM-VAXO matrix (figure 1). The second phase carried out the transformation of the SSIM-VAXO into the reachability matrix (RM) of binary numbers (figure 2). Further identification of 12 sub-elements that can be grouped based on the level of driver power and the level of dependency using the ISM method to determine the hierarchical structure model (figure 3).

The sub-elements are classified into four sectors. The sector one is weak driver-weak dependent variables (autonomous), the relationship between these sectors is relatively small or not related. The sector two (weak driver- strongly dependent variables), the variable in this sector is very dependent on the input and actions of the system, especially on the linkage variables. The sector three is strong driver- strongly dependent variables (linkage), the relationship between variables in this sector is not stable and every action on the variable will affect the other variables. Sector Four is a powerful driver with dependent variables, the variables in this sector are called free variables whose sub elements are considered as key factors of the system.

The figure 3 showed that there are three key sub-elements of success in achieving rehabilitation and conservation goals, namely T8 (Synergy between Meru Betiri National Park with Development Planning Agency of Jember District and Higher Education); T9 (Strengthening the institutional capacity of the Meru Betiri National Park local community); T10 (Availability of Supporting Technology for Regional Potential Development). The sub-elements T8, T9, and T10 which have the highest driving force and the lowest dependency value. The importance of synergy between institutions (T8) as a key sub-element of success in achieving rehabilitation and conservation goals is consistent with the results of the research of Santoso et al. (2015) about the importance of synergy in handling national parks. Synergy will improve coordination, common perception, complementarity (there is no overlapping of activities), so that the efficiency and effectiveness of activities that focus on goals can be realized.

The key sub-element to success in achieving the system goals requires the existence of T9 (Strengthening the institutional capacity of local communities). This is due to the interaction between the community and the forest area that cannot be separated because the existence of the community around the forest is part of the forest itself. In order for local communities to contribute positively, a strong institutional capacity is needed (Moswete and Thapa, 2018). The reality on the ground now shows that in general, the institutional capacity of local communities in Meru Betiri National Park is still lacking.

The third key sub-element in the critical purpose factor is T10 (ie the availability of Supporting Technology for the Development of Potential Areas). Based on the FGD conducted by the local community in the area, guided by a facilitator from the Meru Betiri National Park Center, the information technology needed by the community in the area are technology for processing agricultural products to increase the added value of products, and technology to improve access to information and communication in the area's community which has been rather isolated due to its remote location. Further identification of the need for technology for processing agricultural products in the Meru Betiri National Park area by experienced field practitioners and also by the heads of partner farmer groups shows that it needs tools and machines for processing fruit such as jackfruit, bananas, soursop, wood mushrooms, and medicinal plants. Other technological needs are information technology for developing smart village model areas to open villagers'

access to capital (financial, land, production facilities), markets, science and technology, and to assist in the process of policymaking for local communities

Based on an analysis of the level of driver power and the level of dependency (figure 3) showed that there is the lack of attention to the sub-elements will affect to conservation goal. Sub-elements T3 (conservation of Meru Betiri National Park conservation area), T1 (the development of ecotourism in the Meru Betiri National Park area) and T4 (the achievement of the Meru Betiri National Park Rehabilitation Targets) are in sector two. The variable in this sector is very dependent on the input and actions of the system.

In the final stage is to arrange a hierarchy of sub-elements based on the value of drive power and dependence on the purpose system (figure 4). Nowadays coordination and perceptual similarities between institutions such as the Meru Betiri National Park and the offices in Jember district have not been as expected. Roles and synergy among stakeholders are felt to be still lacking, as well as synergy between sectors and between levels of government. This is because the related agencies are still under the control of the Jember and Banyuwangi district governments, while the Meru Betiri National Park is under the control of the central government.

Structural Model of Sub Elements in the Critical Factor of Institutional Role

The results of the identification of the second critical factor (Institutional Role elements in the system) obtained sub-elements as follows: L1 = Meru Betiri National Park, L2 = Regional Offices of Plant and Forestry, L3 = Regional Offices of Food Security and Animal Husbandry, L4 = Regional Offices of Industry and Trade, L5 = Regional Offices of Tourism, L6 = Development Planning Agency of Jember District, L7 = Regional Offices of Agriculture, L8 = Regional Offices of Community and Village Empowerment, L9 = Non-governmental organization, L10 = Local Community Institutions Rural Forestry Counseling Center, L11 = Higher Education, L12 = Independent Rehabilitation Partner Farmers Group.

Based on the results of the contextual relationship in the form of a SSIM-VAXO matrix (figure 5), the reachability matrix (RM) of binary numbers (figure 6) and the level of driver power and the level of dependency using the ISM method (figure 7) to determine the hierarchical structure model (figure 8). Based on Figure 5 and Figure 6 that in order to create an independent and empowered farmer group, there must be an institutional local community with a large or strong capacity (figure 7). There are three institutions that are the key sub-elements that act as a motivator for other institutions to participate in the rehabilitation and strengthening of local communities and Meru Betiri National Park conservation, namely L1 (Meru Betiri National Park Office); L6 (Jember Regency Planning and Development Agency); L11 (Higher Education). These three institutions have the same relative driving force so they need to coordinate and cooperate with each other in order to be able to further encourage the participation of related agencies in order to participate in developing Meru Betiri National Park. The ultimate goal of this structural model is the realization of independence or empowerment of rehabilitation partner farmer groups. The hierarchy of sub-elements based on the value of drive power and dependence on the institutional role shown in figure 8).

The results of this study state that the institutional strength of local communities is important to build social capital and learning for local communities in the region to become independent and contribute

positively to the conservation of national parks. The results of this study are in accordance with the results of research conducted in several places in the world such as Zimbabwe (Ntuli & Muchapondwa, 2018) which states that the role of institutional and collaboration have a strong effect on the success of biodiversity on the conservation of national parks and in accordance with the results of a review of national park forest management for 40 years in several countries in the world all of which concluded that strong institutional capacity of local communities is needed to form social capital and also for learning for local communities so that they can become independent (Gilmour, 2016).

Therefore, a strong community institution can be concluded as having an important role in helping to conserve national parks. In the structural model of the sub-elements - the critical factor in the institutional role related to technical aspects (there are 7 services) is in level 3, which means these services have quite a strong impetus but also have a large enough dependency. For the good of the future, these agencies should coordinate with each other and work together to form a synergy with the coordination of Development Planning Agency of Jember District.

263 Conclusion

There are two important factors that affect the rehabilitation, conservation and strengthening of the institutional capacity of local communities in the Meru Betiri National Park are the purpose of the system and the role of institutions in the system. The key sub-elements on the purpose of the system such as synergy between related institutions, strong institutional capacity of local communities, and availability of technology for development area. The achieving the purpose of rehabilitation and conservation is largely determined by the development of local institutional capacity and the three main institutions that have an important role are Meru Betiri National Park, Development Planning Agency of Jember District, and Higher Education.

Policy Recommendation

Based on a review of the academic literature and information from the conclusions of this study, the following are recommended: (1) Strengthening the synergy and coordination between Meru Betiri National Park, the Jember Regency Development Planning Agency and higher education, (2) Provision of facilities and intensive assistance to increase the institutional capacity of local communities, and (3) Appropriate technology to increase the added value of agricultural products that are abundant in the region but are easily damaged. Also, access to capital in the form of financial loans, production facilities, market provision, business networks and information technology is provided for residents in the Meru Betiri National Park area.

Acknowledgments

This research was supported by the Grand of Directorate Research and Community Service by Ministry Research and Higher Education 2019

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No.	T2	T3	T4	T5	T6	T7	T8	T9	T10	T11	T12
T1	Α	X	X	Α	Α	Α	Α	Α	Α	Α	Α
T2		V	V	V	V	V	Α	Α	Α	V	V
T3			Α	Α	Α	Α	Α	Α	Α	Α	Α
T4				Α	Α	Α	Α	Α	Α	Α	Α
T5					X	V	Α	Α	Α	X	X
T6						V	Α	Α	Α	X	V
T7							Α	Α	Α	Α	Α
T8								X	X	V	V
T9									X	V	V
T10										V	V
T11											Х
T12											

Figure 1 Structural Self Interaction Matrix (SSIM) of Purpose System

No.	T2	T3	T4	T5	T6	T7	T8	T9	T10	T11	T12	Drv
T1	0	1	1	0	0	0	0	0	0	0	0	3
T2	1	1	1	1	1	1	0	0	0	1	1	9
T3	0	1	1	0	0	0	0	0	0	0	0	3
T4	0	1	1	0	0	0	0	0	0	0	0	3
T5	0	1	1	1	1	1	0	0	0	1	1	8
T6	0	1	1	1	1	1	0	0	0	1	1	8
T7	0	1	1	0	0	1	0	0	0	0	0	4
T8	1	1	1	1	1	1	1	1	1	1	1	12
T9	1	1	1	1	1	1	1	1	1	1	1	12
T10	1	1	1	1	1	1	1	1	1	1	1	12
T11	0	1	1	1	1	1	0	0	0	1	1	8
T12	0	1	1	1	1	1	0	0	0	1	1	8
Dep	4	12	12	8	8	9	3	3	3	8	8	

Figure 2 Reachability Matrix Elements of Purpose System

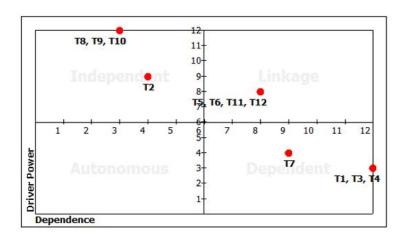


Figure 3 Strategic Grouping of Purpose System

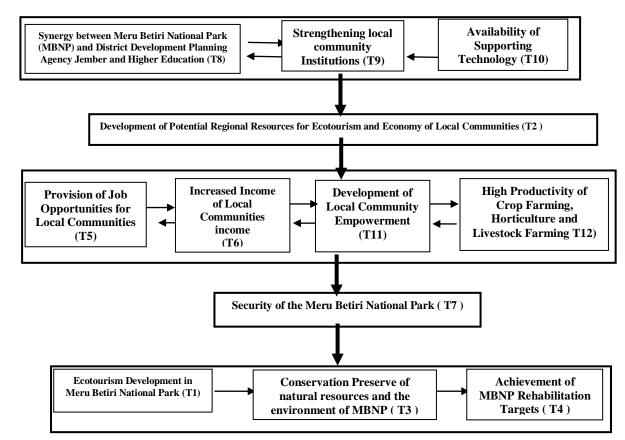


Figure 4 Hierarchical Structural of Sub-Elements Critical Factors of Purpose System

No.	L2	L3	L4	L5	L6	L7	L8	L9	L10	L11	L12
L1	V	V	V	V	X	V	V	V	V	X	V
L2		X	X	X	Α	X	Α	Α	V	0	V
L3			X	X	Α	X	Α	Α	V	Α	V
L4				X	Α	X	X	0	V	Α	V
L5					Α	X	Α	X	V	Α	V
L6						V	V	V	V	X	V
L7							Α	V	V	Α	V
L8								Α	V	Α	V
L9									V	Α	V
L10										Α	V
L11											V
L12											

Figure 5. Structural Self Interaction Matrix (SSIM) of Institutional Role

No.	L2	L3	L4	L5	L6	L7	L8	L9	L10	L11	L12	Drv
L1	1	1	1	1	1	1	1	1	1	1	1	12
L2	1	1	1	1	0	1	1	1	1	0	1	9
L3	1	1	1	1	0	1	1	1	1	0	1	9
L4	1	1	1	1	0	1	1	1	1	0	1	9
L5	1	1	1	1	0	1	1	1	1	0	1	9
L6	1	1	1	1	1	1	1	1	1	1	1	12
L7	1	1	1	1	0	1	1	1	1	0	1	9
L8	1	1	1	1	0	1	1	1	1	0	1	9
L9	1	1	1	1	0	1	1	1	1	0	1	9
L10	0	0	0	0	0	0	0	0	1	0	1	2
L11	1	1	1	1	1	1	1	1	1	1	1	12
L12	0	0	0	0	0	0	0	0	0	0	1	1
Dep	10	10	10	10	3	10	10	10	11	3	12	

Figure 6. Reachability Matrix Elements of of Institutional Role

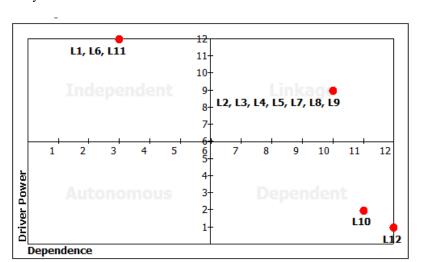


Figure 7. Strategic Grouping of Institutional Role

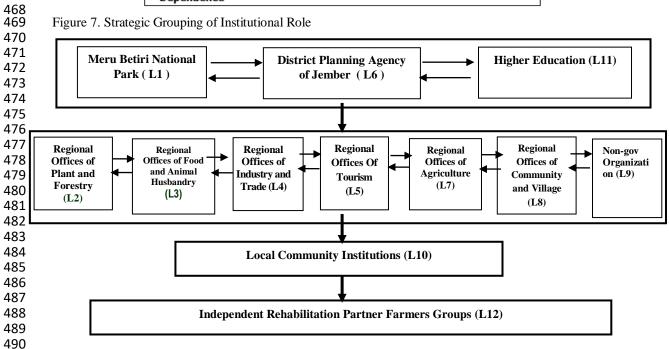


Figure 8 Hierarchical Structural of Sub-Elements Critical Factors of Instutional Role

Meru Betiri National Park is a forest protected by the Indonesian government, this area is located between Jember Regency and Banyuwangi Regency.

6. [L31] From 1998 to now, the park has various security problems. Check the tense (from 1998 to now has been having various security problems).

[R31] As suggested by reviewers, we modified it. From 1998 to now has been having various security problems.

7. [L32-36] Based on the best practice in the management of national parks in several places in the world showed that the conservation of a national park was well maintained by corporation between the authorities in the local community, the cooperation provides social economic benefits for the surrounding community (Sharpley and Naido, 2010; Snyman, 2014; Anup, 2016; Acquah et al., 2017; Perroton et al., 2017).

Incomplete sentence (lack of subject and conjunction)

[R32-36] We thank the reviewer for pointing this out and we modified it.

Based on best practices in managing national parks in several places in the world shows that preserve of national parks is carried out with good coordination between the authorities and the local community to provide socio-economic benefits for the surrounding community (Sharpley and Naido, 2010; Snyman, 2014; Anup, 2016; Acquah et al., 2017; Perroton et al., 2017).

8. [L36-38] For the reason, the park took a strategic policy, it was making the village around the Meru Betiri National Park to be a conservation and ecotourism village that the local communities were empowered and involved to maintain the security and the rehabilitation of the area. Incomplete sentence (lack of conjunction)

[R36-38] We thank the reviewer for pointing this out and we modified it. Therefore, the park adopted a strategic policy by making the villages around Meru Betiri National Park a conservation and ecotourism village by involving local communities to maintain security and rehabilitate the area.

9. [L39-40] The policy began in 2003, the management of Meru Betiri National Park made regional rehabilitation partnership program.

Incomplete sentence (lack of conjunction)

[R39-40] As suggested by reviewers, we completed the conjugation of the sentence The aim of the program is to reduce the number of poor people in the area so that they do not to become a trigger for security disturbances in the Meru Betiri area.

10. [L41-42] The aim of the program to reduce the number of poor people in the area so they were not to be a trigger security disturbances in the Meru Betiri area.

Incomplete sentence (lack of verb)

[R41-42] As suggested by reviewers, we completed the verb of the sentence.

The aim of the program is to reduce the number of poor people in the area so that they do not to become a trigger for security disturbances in the Meru Betiri area.

11.[L42-44] The villagers around the park participating in the program were empowered through the partnership program, the group gathered called the Center for Rural Forestry Extension (CRFE). Incomplete sentence (lack of conjunction)

[R42-44] As suggested by reviewers, we completed the conjugation of the sentence The villagers around the park who participated in this program were empowered through a partnership program called the Center for Rural Forestry Expansion (CRFE).

12. [L46-48]

After community empowerment partnership program has been going on for more than twelve years, it turned out the economic development of communities around the Meru Betiri National Park has not changed significantly.

Incomplete sentence

[R46-48] As suggested by reviewers, we completed the sentence.

The community empowerment program has been running for more than twelve years, but the economic development of the communities around Meru Betiri National Park has not changed significantly.

13. [L49-51]

Meanwhile, the growth of rehabilitation plants in the deforested area which has expected to become a vegetation cover of damage land in the Meru Betiri National Park growing slowly, however it has been planted for more than thirteen years.

Incomplete sentence (lack of verb and unclear sentence)

[R49-51] As suggested by reviewers, we completed the verb and made the sentence clear. Meanwhile, the growth of rehabilitation plants in Meru Betiri National Park growing slowly, even though it had been planted for more than thirteen years.

 [L61-62] The general concept in the management of national parks based on the framework of ecological and social systems in the region (McGinnis and Ostrom, 2014).
 Incomplete sentence (lack of verb)

[R61-62] As suggested by reviewers, we completed the verb of the sentence General concepts management of national parks are based on ecological and social systems in the region (McGinnis and Ostrom, 2014; Mathevet et al., 2016).

15. [L61-66] The general concept in the management of national parks based on the framework of ecological and social systems in the region (McGinnis and Ostrom, 2014). The park managers must considered not only ecology and social dynamics in the national park area (Mathevet et al., 2016) but

also adopt and an interdisciplinary approach. Nonetheless, the park managers acknowledge inherent uncertainties and difficulties in predicting ecological and social dynamics (Dewulf et al., 2005; Brugnach et al., 2008; Allen and Gunderson, 2011).

The connection between this paragraph [L61-66] and the previous [L56-60] and following [L67-70] paragraph is unclear. You should make a logic (i.e., relationships between paragraphs more clearly)

[R61-66] We thank the reviewer for pointing this out and we modified it.

General concepts management of national parks are based on ecological and social systems in the region (McGinnis and Ostrom, 2014; Mathevet et al., 2016) although ecological dynamics and social dynamics are difficult to predict (Dewulf et al., 2005; Brugnach et al., 2008; Allen and Gunderson, 2011).

16. [L69-70] Based on research and preliminary observations
Whose research and observations? You should make the sentence clearly

[R69-70] We thank the reviewer for pointing this out and we modified it. Many problems in the program so that the program is ineffective based on research and preliminary observations by (Hall, 1999; Stringer et al., 2006; Idrissou et al., 2013).

17. [L72] ... caused by a lack of initiative and participation of citizens in the program.

Please mention the reason why a lack of initiative and participation of citizens in the program caused the problems of lack of threatening the institutional capacity in the local communities.

[R72] See revise below

18. [L71-77] One of the problems is the lack of threatening the institutional capacity of the local communities in the village caused by a lack initiative and participation of citizens of the program. Institutional aspect is the one of the most important aspects of community empowerment. Others issues in the institutional aspect of local communities were lack of role and synergy among stakeholders, lack synergy between sectors, lack of synergy between government, lack of public access to capital (financial and production input), lack of marketing knowledge, lack of science and technology, the policy making process, and the lack of social capital (trust togetherness and networking) Cited references must be specific.

[R72] [R71-77] We respect the reviewer opinion and we modified it

One of the problems is the lack of strengthening the institutional capacity of the local communities in the villages due to the low awareness of the community to participate in empowerment programs. The community is not allowed to design an empowerment program, so that it happens a lack of initiative and participation of citizens in the program. Institutional aspect is one of the most important aspects of community empowerment. Others issues in the institutional aspects of local communities were lack of role and synergy among stakeholders (Rydin & Holman, 2004), lack of synergy between sectors, lack of synergy with government, lack of public access to capital (financial and production input), lack of marketing knowledge (Rydin

& Pennington, 2000), lack of science and technology, the policymaking process, and lack of social capital (trust, togetherness, and networking) by (Nath & Pretty, 2011)

19. [L78] Microbusiness operators.

What are the microbusiness operators? Please describe specifically.

[R78] We explained the sentence clearly.

Meanwhile, the network among small business in villages of the Meru Betiri National Park area is not going well. In rural areas, the important role of small businesses is providing additional income.

20. [L80-82] The implication of it, the utilization of business opportunities do not optimal, added value become difficult and low of the selling process of production.

Incomplete sentence (lack of verb)

- Lack of conjunction
- Optimal is adjective not verb

[R80-82] We thank the reviewer for pointing this out and we completed the conjugation and the verb in the sentence.

As a result, the utilization of business opportunities is not optimal, declining value-added and low sales of production.

21. [L78-82] Meanwhile, the network among microbusiness operators in the Meru Betiri National Park is not going well. The low networking inhibits the achievement of community empowerment so that people do not know the potential of surrounding resources and tend to be the object and difficult to make progress. The implication of it the utilization of business opportunity do not optimal, added values become difficult and low of the selling proce of production.

The connection between this paragraph [L78-82] and the previous paragraph [L71-77] is not clear. You should improve this paragraph so that the connection to this previous paragraph is clear.

[R78-82] We modified the sentence as reviewer's suggestions.

The network between micro-businesses in Meru Betiri National Park is very weak so that business opportunities cannot be utilized optimally, besides that the lack of product added value causes the selling value of the product to below. This condition hinders the achievement of community empowerment.

Methods

22. [L91-92] Another study, Lim et al. (2017)...

Incomplete sentence

- As another study
- Lim et al. (2017) ... (delete"another study')

[R91-92] We thanks the reviewer for suggestion. Lim et al. (2017) 23. [L104] The head of the villages in the Meru Betiri area The heads of the villages in the Meru Betiri area.

[R104] We thanks the reviewer for suggestion. The heads of the villages in the Meru Betiri area.

24. [L108] The questionnaires, which are. Incomplete sentence. No period needed

[R108] We thanks the reviewer for suggestion.

The questionnaires which are relevant to the problems or issues and continue with the group's problem solving

25. [L113-114] The type of relationship between two elements in the system studied by (Al-Muftah et al., 2018)

Incomplete sentence.

[R113-114] We thanks the reviewer for suggestion, we deleted the sentence.

26. [L136-137] Stakeholders including partner farmers, facilitator/facilitators, village had community leaders.

Incomplete sentence.

[R136-137] We thanks the reviewer for suggestion, we revised it.

Based on the results of in-depth interviews and discussions and FGDs with Meru Betiri National Park experts and managers as well as FGDs from stakeholders (farmers, facilitators, village heads, community leaders), there are the two main factors (critical factors) are (a) Elements of the Purpose System; (b) Elements of the Institutional Role in the System.

27. [L137] Three main factors can be identified.

You should explain how you judge the three main factors (i.e, reasons or criteria)

[R137] See revise below.

28. [L138] The two main factors ...

You mentioned the three main factors in the previous sentence. Why did you mention only two factors here

[R138] See revise below.

29. [L141] Twelve sub-elements

You should explain how you identified the twelve sub-elements (i.e, criteria and indicators)

[R137], [R138], [R141] We modified the sentence as reviewer's suggestions

The sub-elements are classified into four sectors. The sector one is weak driver-weak dependent variables (autonomous), the relationship between these sectors is relatively small or not related. The sector two (weak driver- strongly dependent variables), the variable in this sector is very dependent on the input and actions of the system, especially on the linkage variables. The sector three is strong driver- strongly dependent variables (linkage), the relationship between variables in this sector is not stable and every action on the variable will affect the other variables. Sector Four is a powerful driver with dependent variables, the variables in this sector are called free variables whose sub elements are considered as key factors of the system.

30. [L146-147] From the result of identification of the type and number of sub-elements contained in the system purpose element can be explained as follow:

Incomplete sentence (lack of subject)

[R146-147] We modified the sentence.

The results of identifying the types and several sub-elements as follows:

31. [L157-159] After all the sub-elements of the critical factors 'system objectives' (twelve sub-elements) are grouped based on analysis of the level of trust and the level dependence (figure 1 and figure 2) shows that there are three main objective of the system objective namely T3 (conservation of Meru Betiri National Park conservation are), T1 (the development of ecotourism in the Meru Betiri National Park are), and the T4 (the achievement of Meru Betiri National Park rehabilitation targets).

The figure 1 also shows that there are three key sub-elements of success in achieving rehabilitation and conservation goals, namely T8 (synergy between Meru Betiri National Park with Development Planning Agencies of Jember District and Higher Education); T9 (strengthening of the institutional capacity of the Meru Betiri National Park local community); T10 (availability of supporting technology for regional potential development).

You should explain why T1, T3, and T4 are the main objectives of the system objectives and T8, T9, and T10 are key sub-elements of success in achieving rehabilitation and conservation goals. In the other words, you should explain figure 1 specifically and clearly.

[R157-159] We explained the paragraph and made it clear.

The first step is to study the contextual relationship in the form of a SSIM-VAXO matrix (figure 1). The second phase carried out the transformation of the SSIM-VAXO into the reachability matrix (RM) of binary numbers (figure 2). Further identification of 12 sub-elements that can be grouped based on the level of driver power and the level of dependency using the ISM method to determine the hierarchical structure model (figure 3).

Based on an analysis of the level of driver power and the level of dependency (figure 3) showed that there are the lack of attention to the sub-elements will affect to conservation goal. Sub-elements T3 (conservation of Meru Betiri National Park conservation area), T1 (The

development of ecotourism in the Meru Betiri National Park area) and T4 (the achievement of the Meru Betiri National Park Rehabilitation Targets) are in sector two. the variable in this sector is very dependent on the input and actions of the system.

32. [L168-171] Because through synergy shows that there has been coordination, common perception, share goals, corporation complementary (there is no overlapping of activities) between related agencies so that efficiency and effectiveness of activities in the field that there are also focus on objective can be realized.

Incomplete and unclear sentence

[R168-171] As reviewer suggentions, we competed the sentence and make it clear. Synergy will improve coordination, common perception, complementarity (there is no overlapping of activities), so that the efficiency and effectiveness of activities that focus on goals can be realized.

33. [L180] In order for local communities to contribute positively. Incomplete and unclear sentence.

[R180] We modified the sentence.

Local communities will contribute to this activity.

34. [L180] is needed (PKHR UGM, 2007; Corvuz et al., 2018; Moswete and Thapa, 2018) The period is not necessary

[R180] We modified the sentence without the period.

In order for local communities to contribute positively, a strong institutional capacity is needed (Moswete and Thapa, 2018).

35. [L182] TNMB

What is TNMB? You should write without using abbreviation. Do the first appearance.

[L182] The TNMB replaced by Meru Betiri National Park

36. [L187] ... products and so that processed food product can be store longer ... And is not necessary

[R187] We modified the sentence.

Based on the FGD conducted by the local community in the area, guided by a facilitator from the Meru Betiri National Park Center, the information technology needed by the community in the area are technology for processing agricultural products to increase the added value of products, and technology to improve access to information and communication in the area's community which has been rather isolated due to its remote location.

37. [L145-184] No explanation for figure 2. You should describe the key result of figure 2 clearly and specifically.

[R145-184] Please see the answer below.

38. Figure 2

Figure 2 is not clear. What do the arrows mean? Do unconnected arrow mean there is no direct interaction (e.g., between T5 and T11, between T6 and T12 also what does each level mean)

[R145-184] and [R Figure 2] We modified the sentence.

The first step is to study the contextual relationship in the form of a SSIM-VAXO matrix (figure 1). The second phase carried out the transformation of the SSIM-VAXO into the reachability matrix (RM) of binary numbers (figure 2).

39. [L205-208] Based on the results of analysis shown in figure 3 and figure 4 there are three institution that are the key sub-elements that act as a motivator for other institutions to participate in the rehabilitation and strengthening of local communities in Meru Betiri National Park conservation namely L1 (Meru Betiri National Park office); L6 (Jember Regency Planning and Development Agency); L11 (Higher Education).

This comment is the same as the comment above. You should explain why L1, L6, L11 are the key sub-elements. You should explain figure 3 specifically and clearly. What does the number 1-12 mean? Also how did the determine the coordinate from L1 to L12.

[R205-208] We modified our result and discussion.

Based on the results of the contextual relationship in the form of a SSIM-VAXO matrix (figure 4), the reachability matrix (RM) of binary numbers (figure 5) and the level of driver power and the level of dependency using the ISM method to determine the hierarchical structure model (figure 6) there are three institutions that are the key sub-elements that act as a motivator for other institutions to participate in the rehabilitation and strengthening of local communities and Meru Betiri National Park conservation, namely L1 (Meru Betiri National Park Office); L6 (Jember Regency Planning and Development Agency); L11 (Higher Education). These three institutions have the same relative driving force so they need to coordinate and cooperate with each other in order to be able to further encourage the participation of related agencies in order to participate in developing Meru Betiri National Park. The ultimate goal of this structural model (as shown in Figure 6) is the realization of independence or empowerment of rehabilitation partner farmer groups. Based on Figure 4 and Figure 5 that in order to create an independent and empowered farmer group, there must be an institutional local community with a large or strong capacity.

40. [L209] Driving force

The term of driving power as used in figure 3 are driving force and driving power same meaning, if so you should the consistent word in this paper.

[R209] Driving force replaced by driving power

41. [L212-213] Based on figure 3 and figure 4 that in order to create and independent empowered farmer group.

Unclear sentence

[R212-213] [R205-208] We modified the paragraph and made it clear.

Based on the results of the contextual relationship in the form of a SSIM-VAXO matrix (figure 4), the reachability matrix (RM) of binary numbers (figure 5) and the level of driver power and the level of dependency using the ISM method to determine the hierarchical structure model (figure 6) there are three institutions that are the key sub-elements that act as a motivator for other institutions to participate in the rehabilitation and strengthening of local communities and Meru Betiri National Park conservation, namely L1 (Meru Betiri National Park Office); L6 (Jember Regency Planning and Development Agency); L11 (Higher Education). These three institutions have the same relative driving force so they need to coordinate and cooperate with each other in order to be able to further encourage the participation of related agencies in order to participate in developing Meru Betiri National Park. The ultimate goal of this structural model (as shown in Figure 6) is the realization of independence or empowerment of rehabilitation partner farmer groups. Based on Figure 4 and Figure 5 that in order to create an independent and empowered farmer group, there must be an institutional local community with a large or strong capacity.

42. [L217-224] The result park

More than just comparing results with previous studies, you should mention why the result where obtained. Also, you should mention significant (i.e, how can the result of the study contribute to the study field). In the limitation (i.e, what kind of further research are necessary) of this research.

[R217-224] We modified the paragraph.

The results of this study are in accordance with the results of research conducted in several places in the world such as Zimbabwe (Ntuli & Muchapondwa, 2018) which states that the role of institutional and collaboration have a strong effect on the success of biodiversity on the conservation of national parks and in accordance with the results of a review of national park forest management for 40 years in several countries in the world all of which concluded that strong institutional capacity of local communities is needed to form social capital and also for learning for local communities so that they can become independent (Gilmour, 2016).

43. [L225-227] In the structural model of the sub-elements the critical factor in the institutional role of the office related to technical aspects (there are seven services) is in level 3, which means these services have quite a strong impetus but also have a large enough dependency.

Unclear sentence. You should improve the sentence clearly

What is level 3. You should describe specifically.

[R225-227] We described it spesifically.

In the structural sub-elements model, the critical factors in the institutional role of the office related to technical aspects are in quadrant of three, which means these have strong enough but also have large enough dependencies.

Conclusion

44. [L225-227] There are three ... higher education with an interest Very long sentence. You should improve the sentence so that readers can understand your conclusion clearly.

[R225-227] In line with the reviewer's suggestion, we shortened and modified our Conclusion. There are two important factors that affect the rehabilitation, conservation and strengthening of the institutional capacity of local communities in the Meru Betiri National Park are the purpose of the system and the role of institutions in the system. The key sub-elements on the purpose of the system such as synergy between related institutions, strong institutional capacity of local communities, and availability of technology for development area. The achieving the purpose of rehabilitation and conservation is largely determined by the development of local institutional capacity and the three main institutions that have an important role are Meru Betiri National Park, Development Planning Agency of Jember District, and Higher Education

Recommendation

45. [L209] Recommendation Policy recommendation

[L209] Policy recommendation

Based on a review of the academic literature and information from the conclusions of this study, the following are recommended: (1) Strengthening the synergy and coordination between Meru Betiri National Park, the Jember Regency Development Planning Agency and higher education, (2) Provision of facilities and intensive assistance to increase the institutional capacity of local communities, and (3) Appropriate technology to increase the added value of agricultural products that are abundant in the region but are easily damaged. Also, access to capital in the form of financial loans, production facilities, market provision, business networks and information technology is provided for residents in the Meru Betiri National Park area

46. [L209] Based on information from the result of research conducted necessary policy intervention as follows:

Incomplete sentence (lack of verb)

[R209] We completed the verb as reviewer's suggestion.

Based on information from the result of research conducted necessary policy intervention are as follows:

- 14. [L61-62] The general concept in the management of national parks based on the framework of ecological and social systems in the region (McGinnis & Ostrom, 2014).
- ➤ Incomplete sentence (lack of *verb*)
- 15. [L61-66] The general concept in the management of national parks based on the framework of ecological and social systems in the region (McGinnis & Ostrom, 2014). The park managers must consider not only local ecology and social dynamics in the national park area (Mathevet et al., 2016), but also adopt an interdisciplinary approach. Nonetheless, the park managers acknowledge inherent uncertainties and difficulties in predicting ecological and social dynamics (Dewulf et al., 2005; Brugnach et al., 2008; Allen and Gunderson, 2011).
- The connection between this paragraph (L61-66) and the previous (L56-60) and following (L67-70) paragraphs is unclear. You should make logic (i.e., relationships between paragraphs) more clearly.
- 16. [L69-70] Based on research and preliminary observations...
- ➤ Whose research and observations? You should make the sentence clearly.
- 17. [L72] ... caused by a lack of initiative and participation of citizens in the program.
- Please mention the reason why a lack of initiative and participation of citizens in the program causes the problems of lack of strengthening the institutional capacity of the local communities.
- 18. [L71-77] One of the problems is the lack of strengthening the institutional capacity of the local communities in the villages caused by a lack of initiative and participation of citizens in the program. Institutional aspect is one of the most important aspects of community empowerment. Others issues in the institutional aspects of local communities were lack of role and synergy among stakeholders, lack of synergy between sectors, lack of synergy with government, lack of public access to capital (financial and production input), lack of marketing knowledge, lack of science and technology, the policymaking process, and lack of social capital (trust, togetherness, and networking).
- > Cited references must be specified
- 19. [L78] micro business operators
- What are the micro-business operators? Please describe specifically.
- 20. [L80-82] The implication of it, the utilization of business opportunities do not optimal, added values become difficult and low of the selling price of production.
- > Incomplete sentence
 - lack of conjunction
 - "optimal" is *adjective* (not *verb*)
- 21. [L78-82] Meanwhile, the network among micro business operators in the Meru Betiri National Park is not going well. The low networking inhibits the achievement of community empowerment so that people do not know the potential of surrounding resources and tend to be

the object and difficult to make progress. The implication of it, the utilization of business opportunities do not optimal, added values become difficult and low of the selling price of production.

➤ The connection between this paragraph (L78-82) and the previous paragraph (L71-77) is not clear. You should improve this paragraph so that the connection to the previous paragraph is clear.

Methods

- 22. [L91-92] Another study, Lim et al. (2017)...
- > Incomplete sentence
 - As another study, Lim et al. (2017)...
 - Lim et al. (2017)... (delete "another study)
- 23. [L104] the head of villages in the Meru Betiri area
- the heads of villages in the Meru Betiri area
- 24. [L108] the questionnaires. which are
- ➤ Incomplete sentence (No period needed)
- 25. [L113-114] The type of relationship between two elements in the system studied by (Al-Muftah et al., 2018).
- > Incomplete sentence

Results and Discussion

- 26. [L136-137] stakeholders including partner farmers, facilitators/facilitators, village heads, community leaders)
- ➤ Incomplete sentence
- 27. [L137] three main factors can be identified
- You should explain how you judged the three main factors (i.e., reasons or criteria).
- 28. [L138] The two main factors...
- You mentioned the three main factors in the previous sentence. Why did you mention only two factors here?
- 29. [L141] 12 sub-elements
- You should explain how you identified the 12 sub-elements (i.e., criteria or indicators)

- 30. [L146-147] From the results of identification of the type and number of sub-elements contained in the System Purpose Element can be explained as follows:
- ➤ Incomplete sentence (lack of *subject*)
- 31. [L157-159] After all the sub-elements of the critical factors "System Objectives" (12 sub-elements) are grouped based on an analysis of the level of trust and the level of dependence (figure 1 and figure 2) shows that there are three main objectives of the system objectives namely T3 (conservation of Meru Betiri National Park conservation area), T1 (The development of ecotourism in the Meru Betiri National Park area) and T4 (the achievement of the Meru Betiri National Park Rehabilitation Targets).

The figure 1 also shows that there are three key sub-elements of success in achieving rehabilitation and conservation goals, namely T8 (Synergy between Meru Betiri National Park with Development Planning Agency of Jember District and Higher Education); T9 (Strengthening the institutional capacity of the Meru Betiri National Park local community); T10 (Availability of Supporting Technology for Regional Potential Development).

- You should explain why T1, T3, T4 are the main objectives of the system objectives and T8, T9, and T10 are key sub-elements of success in achieving rehabilitation and conservation goals. In other words, you should explain Figure 1 specifically and clearly. What does the number 1 to 12 mean? Also, how did you determine the coordinates from T1 to T12?
- 32. [L168-171] Because through synergy shows that there has been coordination, common perceptions, shared goals, cooperation complementary (there is no overlapping of activities) between related agencies so that efficiency and effectiveness of activities in the field that are also focused on objectives can be realized.
- > Incomplete and unclear sentence
- 33. [L180] In order for local communities to contribute positively...
- What do they contribute positively? You should improve the sentence clearly (for example, in order for local communities to contribute to forest management positively...)
- 34. [L180] is needed. (PKHR-UGM 2007; Corvuz et al.2018; Moswete and Thapa, 2018).
- > The period (.) is not necessary
- 35. [L182] TNMB
- What is "TNMB"? You should write without using abbreviations due to the first appearance.
- 36. [L187] ...products and so that processed food products can be stored longer...
- ➤ "And" is not necessary.
- 37. [L145-194]
- No explanation for Figure 2. You should describe the key results of Figure 2 clearly and specifically.

- 38. Figure 2
- Figure 2 is not clear. What do the arrows mean? Do unconnected arrows mean that there is no direct interaction (e.g., between T5 and T11, between T6 and T12)? Also, what does each level mean?
- 39. [L205-208] Based on the results of the analysis shown in Figure 3 and Figure 4, there are three institutions that are the key sub-elements that act as a motivator for other institutions to participate in the rehabilitation and strengthening of local communities and Meru Betiri National Park conservation, namely L1 (Meru Betiri National Park Office); L6 (Jember Regency Planning and Development Agency); L11 (Higher Education).
- This comment is the same as the comment above (No. 31). You should explain why L1, L6, L11 are the key sub-elements. You should explain Figure 3 specifically and clearly. What does the number 1 to 12 mean? Also, how did you determine the coordinates from L1 to L12?
- 40. [L209] driving force
- The term of "driving power" is used in Figure 3. Are "driving force" and "driving power" same meaning? If so, you should use the consistent word in this paper.
- 41. [L212-213] Based on Figure 3 and Figure 4 that in order to create an independent and empowered farmer group...
- Unclear sentence
- 42. [L217-224] The results of this study are in accordance with the results of research conducted in several places in the world such as Zimbabwe (Ntuli & Muchapondwa, 2018) which states that local community institutions have a positive influence on the conservation of national parks; the same results were obtained from research on national parks in Botswana (Moswete & Thapa, 2018) and in accordance with the results of a review of national park forest management for 40 years in several countries in the world all of which concluded that strong institutional capacity of local communities is needed to form social capital and also for learning for local communities so that they can become independent (Gilmour, 2016). Therefore a strong community institution can be concluded as having an important role in helping to conserve national parks.
- More than just comparing results with previous studies, you should mention why the results were obtained. Also, you should mention significance (i.e., how can the result of this study contribute to the study field) and limitations (i.e., what kind of further research are necessary?) of this research.
- 43. [L125-127] In the structural model of the sub-elements the critical factor in the "institutional role" of the offices related to technical aspects (there are 7 services) is in level 3, which means these services have quite a strong impetus but also have a large enough dependency.
- Unclear sentence. You should improve this sentence clearly.
- ➤ What is "level 3"? You should describe specifically.

Conclusion

- 44. [L232-240] There are three important factors (main elements) that affect the rehabilitation, conservation and strengthening of the institutional capacity of local communities in the Meru Betiri National Park are (i) the "Purpose" of the system, (ii) the "Weaknesses" System, and (iii) "The Role of Institutions" in the system; Structural modeling of sub-elements on the "Goal" factor using the ISM method shows that there are three key sub-elements, namely (i) synergy between related institutions, (ii) strong institutional capacity of local communities, (iii) availability of technology for development area; and The achieving the goals of rehabilitation and conservation is largely determined by the development of local institutional capacity and the three main institutions that have an important role are: (i) TNMB, (ii) Development Planning Agency of Jember District, (iii) Higher Education with an interest.
- ➤ Very long sentence. You should improve this sentence so that readers can understand your conclusion clearly.

Recommendation

- 45. [L243] Recommendation
- **Policy** Recommendations
- 46. [L244] Based on information from the results of research conducted necessary policy interventions as follows:
- ➤ Incomplete sentence (lack of *verb*)

 Based on information from the results of research conducted necessary policy interventions are as follows:

Close

* Denotes required field