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# Literature Review: Policy Strategies for Natural Resource Management and Conservation

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Abstract: Research and identify the relationship between the components under study in conservation and demonstrate a significant correlation between them. In this study, a qualitative literature review methodology was used which involved a systematic process of studying, analyzing and synthesizing relevant literature. Findings from this study indicate that effective collaboration between various stakeholders, preservation of local customs, and implementation of supportive policies are critical factors in efforts to manage natural resource conservation. The research also highlights the importance of involving local communities, non-governmental organizations, government, and the private sector in conservation management. Local customs also play an important role in preserving natural resources. In addition, policies that support natural resource conservation management are needed, including regulation of resource use, habitat protection, management of conflicts between stakeholders, and integration of related policies. A limitation of this study is the subjectivity in the collection and interpretation of data in the selected literature. In addition, the study was based on an analysis of existing literature, so the results depend on the quality and quantity of literature available. Also, since this study used a literature review approach, no primary data collection was conducted. The recommendation for future research is to involve primary data and conduct field research to confirm the findings of this literature review.

Keyword: Management Policy, Conservation, Environment

## INTRODUCTION

Increasingly intense competition over access to and utilization of natural resources is a source of complex conflicts, involving contests between diverse and sometimes conflicting interests. These conflicts often involve dynamics between economic interests, which are often prioritized to support economic growth and investment, and environmental interests, which emphasize the protection of vulnerable environmental aspects and the need for sustainable management. In addition, social aspects are also involved in these conflicts, given the impacts on local communities, including traditional rights and social welfare. At the science and policy level, the challenge is to move towards new ways of doing and knowing, overcoming the

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limitations of single knowledge systems and better supporting endogenous development (Yanou et al., 2023).

In this context, clear policies and strong regulations are crucial for managing and defusing conflicts that arise. Well-established policies and consistently applied regulations can create a stable foundation for balancing different interests. This includes regulating access rights, revenue sharing and sustainable environmental management. Strong regulations can also provide guarantees for fairness in the utilization of natural resources, thus ensuring that the benefits can be equally enjoyed by all parties involved, including local communities and future generations.

Stakeholder engagement is the process of involving actors affected by natural resources by addressing potential conflicts of interest and incorporating diverse knowledge in the management process, which is important for increasing accountability and reducing uncertainty (Han et al., 2024).

As such, this background highlights the need for a comprehensive and coordinated approach to the challenge of competition over natural resources. This involves not only the establishment of progressive policies and strong regulations, but also requires the active participation of various stakeholders in the decisionmaking process, as well as collaborative efforts to strike an appropriate balance between economic, environmental and social interests.

This research has a high urgency related to the important role of policy makers in natural resource conservation, for example in the context of capital cities in Indonesia. Without effective policy makers, natural resource ecosystems can be threatened due to uncontrolled utilization. Therefore, it is important to take actions that involve policy makers to maintain the sustainability and preservation of natural resources.

One example of the important role of policy makers is in the context of the development of a new capital city in Indonesia. The development process can have a significant impact on natural resources, both in terms of land use, water utilization, biodiversity, and the environment as a whole. Without policy makers paying attention to conservation aspects, the risk of ecosystem degradation and environmental damage will increase.

Through this research, it will be possible to reveal the urgency of policy stakeholders in protecting natural resources around the new capital city. The research findings can provide a deeper understanding of how policy makers can play an effective role in natural resource conservation. This could involve regulating resource use, habitat protection, managing conflicts between stakeholders, and coordinating other related policies.

In conclusion, this research has high urgency as it underscores the importance of the role of policy makers in natural resource conservation. In the context of Indonesia's new capital city development, the presence of effective policy makers is key to maintaining ecosystem sustainability and preventing overexploitation. Through this research, it is hoped that policy makers will pay more attention to conservation aspects in decision-making and involve various stakeholders in efforts to preserve natural resources.

## **METHOD**

Qualitative literature review methodology involves a systematic process of studying, analyzing, and synthesizing relevant literature to gain an in-depth understanding of a particular topic, with the aim of explaining, describing phenomena, and understanding the meaning and interpretation contained in the literature reviewed. This process involves the steps of identifying an appropriate research topic, systematic literature search through various relevant sources, literature selection according to specified criteria, evaluation of the quality of the selected literature, in-depth analysis of the content of the literature with a qualitative approach, synthesis of literature findings. to develop a conceptual framework, interpretation and discussion of literature findings, as well as writing a literature review report that includes research objectives,

methodology used, main findings, as well as relevant conclusions and recommendations. This methodology provides deep insight and rich understanding of the research topic through analysis of existing literature, and can be used as a basis for further research or theory development. Qualitative research is strongly influenced by the researcher's perspective, thoughts and knowledge because the data is collected and interpreted subjectively by the researcher (Raco, 2010).

#### RESULT AND DISCUSSION

The aim of the literature review research with the theme of conservation in managing natural resources is to: research and identify the relationship between the components studied in conservation and show the existence of a significant correlation between these components; filling knowledge gaps regarding the relationship between stakeholder participation in conservation and understanding it systemically; apply interdisciplinary and theoretical approaches to gain a more comprehensive understanding of stakeholder participation in conservation; analyze and evaluate resource management strategies that involve traditional participation, use of shared infrastructure, and shared experiences in order to conserve natural resources; identifying challenges in conservation management related to citizen involvement and their welfare, as well as formulating the expected results in the form of Tri Hita Karana balance; compare the number of tourists and resource conflicts between two villages and examine the important role of traditional involvement in both situations; analyze existing policies related to wetland protection, identify inconsistencies between policies and laws, and formulate recommendations to strengthen wetland management in South Africa; simulating future scenarios related to the sustainability and conservation of water resources in desert or semi-desert areas, as well as evaluating the sustainability and efficiency of these scenarios; analyze spatial and temporal variations in ecosystem services as well as synergistic relationships between certain components in conservation; and study oxbow lakes in various river systems in Africa, understand the factors that influence their distribution and existence, and formulate sustainable management strategies to preserve oxbow lake ecosystems.

Based on the results of 10 previous research journals, it was found that in managing policy strategies related to natural resource conservation, it is important for stakeholders to implement a policy that comprehensively preserves natural resources, including water, forests and other biodiversity. The importance of stakeholders being involved in such conservation management is highlighted in the research.

Apart from that, research also shows that local customs have an important role in preserving natural resources. The continuity of these traditions and cultural values must be preserved and integrated into conservation policies to achieve optimal results.

Furthermore, the importance of implementing policies that support natural resource conservation management was also revealed in the research. Appropriate and effective policies are needed to protect and manage natural resources sustainably. This includes regulating resource use, protecting habitats, regulating land access and use, and managing conflicts that may arise between different stakeholders.

Overall, the research results highlight the importance of collaboration between stakeholders, preserving local customs, and implementing supportive policies in the management of natural resource conservation. Thus, it can be hoped that conservation efforts will be more effective and sustainable in preserving natural resources that are important for our lives.

Conservation practitioners are risk-averse, as knowing that a measure has proven effective in similar applications can encourage adoption and a shift away from historical conservation approaches that are vulnerable to climate change. Similarly, it can raise awareness of other suitable options expanding the conservation practitioner's toolkit (Hansen et al., 2023).

Conservationists need to be optimally equipped. This recommendation is based on an approach that emphasizes cooperation and integration across disciplines to share knowledge, skills and experience, as many experts do. This is needed to support the development and implementation of the "One Plan" project (Moloney et al., 2023).

Natural resource management as a collective action problem requires inclusive, reflective, and systemic stakeholder engagement processes (Han et al., 2024).

No Writer's name  1. (Yanou et al., Identify knowledge integration projects related to natural resource conservation and management in South Africa.  Know the type of knowledge that is trying to be integrated in these studies. Know the methods and procedures used to integrate scientific knowledge and procedures used to integrate scientific knowledge and projects. Grouping these methods based on the inclusiveness of participation of local knowledge holders. Identify opportunities and challenges of knowledge plays a role in efforts to integrate and co-produce knowledge.  2. (Han et al., Using a systemic and gator)  1. (Yanou et al., Identify knowledge is studies by keywords that there were IA case studies that met the criteria. Scopus, Web of Science, and Google Scholar.  Scopus, Web of Science, and Google Scholar.  Scholar.  Study selection was based on inclusion criteria. Data extraction uses six variables based on review questions. Narrative data synthesis and analysis.  Several challenges were found, such as a lack of documentation of the integration of the integration and knowledge holders. Identify the proportion of the inclusiveness of participation of local knowledge co-production in such projects.  Knowing the extent to which the debate regarding the decolonization of knowledge plays a role in efforts to integrate and co-produce knowledge.  2. (Han et al., Using a systemic and resource for the content of the content of the projects of the content of the	Table 1. Previous Research					
1. (Yanou et al., 2023) integration projects related to natural resource conservation and management in South Africa.  Know the type of knowledge that is integrated in these studies.  Know the methods and procedures used to integrate scientific knowledge and local knowledge in conservation and natural resource management projects.  Grouping these methods based on the inclusiveness of participation of local knowledge integration and challenges of knowledge integration and knowledge copproduction in such projects.  Knowing the extent to which the debate regarding the decolonization of integrate and copproduce knowledge.  2. (Han et al., Using a systemic and conservation projects studies by keywords integrated to natural resource databases such as Scopus, Web of Science, and Google that is in scientific and exclusion criteria. Scholar.  Study selection was based on inclusion criteria. Study selection was based on inclusion criteria. Study selection was wariables based on inclusion criteria. Data extraction uses six variables based on review questions. Narrative data synthesis and analysis.  Several challenges were found, such as a lack of documentation of the integration of the integration of the integration of the integration and encourage transformation through a local community-led approach.	No		Research purposes	Research methods	Research result	
		(Yanou et al., 2023)	integration projects related to natural resource conservation and management in South Africa.  Know the type of knowledge that is trying to be integrated in these studies.  Know the methods and procedures used to integrate scientific knowledge and local knowledge in conservation and natural resource management projects.  Grouping these methods based on the inclusiveness of participation of local knowledge holders.  Identify opportunities and challenges of knowledge integration and knowledge integration and knowledge coproduction in such projects.  Knowing the extent to which the debate regarding the decolonization of knowledge plays a role in efforts to integrate and coproduce knowledge.	studies by keywords in scientific databases such as Scopus, Web of Science, and Google Scholar.  Study selection was based on inclusion and exclusion criteria.  Data extraction uses six variables based on review questions.  Narrative data synthesis and analysis.	that there were 14 case studies that met the criteria. Knowledge integration is carried out using a mixture of qualitative and quantitative methods. The level of collaboration varies.  Several challenges were found, such as a lack of documentation of the integration process and commitment to decolonial issues. It is recommended that further research is needed to develop fairer methods for knowledge integration and encourage knowledge transformation through a local community-led approach.	
2027) Tellective framework case studies on pairs of	۷.	(Han et al., 2024)	reflective framework	case studies on	pairs of	

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to analyze the relationship between components of stakeholder participation in natural resource management cases reported in scientific publications. Identify knowledge

Identify knowledge foci and knowledge gaps regarding stakeholder participation in previous literature. stakeholder
participation in
natural resource
management
reported in
scientific
publications
indexed on the Web
of Science.
Analyze and

- Analyze and categorize the components of a systemic framework consisting of 5P (problem, goal, participants, process, results).
- Perform a Chisquare statistical test to analyze the relationship between each pair of framework components.

relationships
between
components
studied had a
significant
correlation.
Knowledge gaps

Knowledge gaps still exist regarding the relationship between components ofstakeholder participation. Interdisciplinary and theoretical research is needed to understand stakeholder participation systemically.

3. (Moloney et al., 2023)

Reviews current literature using Boolean methods and critical appraisal of conservation research to determine the techniques and strategies used, with focus restoration ecology. From this review, a lack of centralized guidance was identified.

This review aims to provide a conceptual framework in the form of a brief guide that can be adopted conservationists restoration and ecologists. The purpose of the guide is to provide reference guide to concentrations to consider through examination of the

Initial searches were conducted using general terms such "Conservation" "Herd." The result was more than 400,000 articles, so additional filters were used such as type of article (research and review), year of publication, journal.

The initial 170,000 results were uploaded to R Studio and filtered using the litsearchr package. Key terms were extracted. grouped and matched back to WOS to search for specific articles.

100 random articles were reviewed to determine the appropriateness of The majority of articles (92%) were primary research. The number of articles has increased since 1994 with a peak in 2020. Mammals have the largest proportion (49%).

The conceptual framework ("Conservationist's Toolkit") was developed with 3 pillars: knowledge, tools, collaboration. Contains 18 key questions to prepare for restoration project.

In conclusion, various variables must be considered wisely in planning restoration ecology projects. By

		restorative literature.	the search results. Taxonomic type, year of publication, journal were searched.	continuing to adapt, successful results can be achieved through conservation projects to either preserve the species in the herd or increase the wild population.
4.	(Hansen et al., 2023)	The aim of this study was to determine to what extent there are assessments of the effectiveness of adaptation recommendations for conservation reported in the published literature, and if so, what types of assessments are used.	Researchers conducted a literature survey of references to previous revised papers that focused on climate change adaptation recommendations, and complemented this with a targeted literature search to identify studies that assessed the effectiveness of recommended adaptation measures. The studies were categorized by study type according to the hierarchy of adaptation effectiveness testing.	Of the 130 papers identified in a 2022 review by McLaughlin et al. associated with one or more of the "top 10" recommendation categories, more than half (58%) did not assess the effectiveness of the adaptation. Only 36 papers were categorized as Level 2 and above. Five papers were categorized as Level 4 as testing effectiveness through hypothesis tests or comparisons. Only one publication was identified as Level 3. Additional publications showed a similar pattern of effectiveness ratings, with the majority being at Level 2. Only one Level 3 example was found.
5.	(Rosalina et al., 2023)	. Identify tourism resource management strategies implemented in two tourist villages in Bali Know the challenges,	. Qualitative case study using interview, direct observation and document data collection techniques conducted in Taro Village and	Resource management strategies include indigenous involvement, use of shared infrastructure, and shared experiences

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		objectives and	Munduk Village,	to conserve
		expected results in managing resources	Bali Data analysis uses	resources Management
		in the two tourist	thematic analysis.	challenges are
		villages Comparing resource		citizen involvement and
		management		citizen welfare. The
		strategies,		expected result is
		challenges and		Tri Hita Karana
		similarities between the two tourist		balance There are
		villages.		differences in
		,		tourist numbers and
				resource conflicts
				between the two
				villages, but traditional
				involvement is
				considered
-				important in both.
6.	(Sinthumule,	The aim of this	This research uses a	The research found
	2024)	research is to analyze the strengths and	qualitative approach by conducting a	that there are no specific policies
		limitations of the	comprehensive	that protect
		environmental	document study of	wetlands, but
		policy and legal	policy documents	several sectoral
		framework in South	published by the	policies integrate
		Africa that supports	South African government. The	wetland conservation
		the protection and management of	government. The selected documents	objectives. This
		wetlands.	include the South	results in the
			African	absence of an
			Constitution and	integrated
			nine national	management objective. Apart
			environmental policies that contain	objective. Apart from that, there is a
			provisions on	lack of harmony
			wetland	between policies
			conservation and	and laws, there is a
			management.	lack of
			Documents were then analyzed	coordination between
			qualitatively to	institutions, and
			identify strengths	there is no
			and limitations in	integrated
			supporting wetland	monitoring. This
			protection.	fragmented and incoherent
				approach
				undermines the
				effectiveness of the
				legal framework in
				protecting these sensitive
				35H3H4VC

ecosystems. This research concludes that there is a need strengthen wetland management in South Africa. 7. (Mohamed et Conduct a detailed Develop Four sets of future al., 2020) evaluation of conceptual and scenarios highly stressed water dynamic framework simulated, namely system conditions in Abu Dhabi's Business as Usual. Abu Dhabi (with water system. **Policy** First, minimal surface Sustainability water resources and Design and develop through future scenarios Conservation, and artificial water using control and Sustainability systems). supporting Strengthened by Rain. Consider several parameters to water-related project future The government policies situations. simulation in developing shows that the possible future Abu Sustainability Modeling the Dhabi water developed scenarios through scenarios. using the Abu Dhabi Conservation and Dynamic Water Rain-Enhanced Budget Model to Demonstrate Sustainability evaluate the future scenarios achieve scenario balance of water development for water budget data-deficient supply and demand. balance without shortages until systems. 2050. The Rain Boosted Sustainability Scenario is recommended because it requires reasonable and achievable consumption reductions in different demand sectors. The research results are useful for developing water future resource management strategies in desert semi-desert or

areas.

8. (Wang et al., 2024)

- Develop a framework for identifying priority conservation areas (PCA) based on ecosystem trade-offs across multiple scenarios.
- Quantifying and analyzing the spatial and temporal variability of Soil Conservation (SC), Water Yield (WY), Carbon Storage (CS), and Habitat Quality (HQ) in the Northeastern Chinese Peninsula.
- . Tracing trade among four ecosystem services in the Northeastern Chinese Peninsula.
- . Identify PCAs for ecosystem services the Northeast China Peninsula and make ecological management recommendations to provide scientific references for further implementation the scope plan of the Natural Forest Protection Project.

- Using the RUSLE model to estimate SC and the InVEST model to calculate CS, WY, and HQ
- . Conduct correlation analysis between ecosystem services to determine the relationship between ecosystem services
- Uses the ordered weighted average (OWA) operator to identify 11 PCA scenarios based on risks and trade-offs between ecosystem services
- Comparing the conservation efficiency of PCA under different scenarios to identify PCA

- There is significant spatial and temporal variation between the four ecosystem services

  There is a
- synergistic
  relationship
  between CS-HQ
  and WY-SC, while
  the relationship
  between SC and
  CS, HQ is opposite
- Scenario 2 had the highest conservation efficiency among the 11 scenarios and was used as a PCA
- The priority conservation area covers an area of 2.24×105 km2, most of which is forest

9. (Abebe Madda Gatisso, 2023) &

The aim of research is to assess the current conditions and threats to the cultural heritage of the Kawo Amado Kella Defense Wall in Wolaita. Ethiopia, and determine future steps for preservation. Researchers want to analyze the current challenges of conservation and preservation of the

The researcher used qualitative ethnographic approach in his The research. sampling technique used was purposive sampling and snowball sampling to select informants and research locations. Primary and secondary data sources were used to collect data. including field surveys, in-depth

Research found that the Kawo Amado Kella Defense Wall is currently threatened due to natural factors such erosion and human factors such government development projects, modernization, and ignorance of local communities. Several parts of the wall have been Kawo Amado Kella Defense Wall due to development projects, modernity, religion and globalization. interviews, focus group discussions, and non-participant observation.

total of 171 Α people were selected as subjects interview based on their status, work, and life experiences. 64 of them are women. Interviews were conducted between June 2019-September 2020. Apart from that, researchers also metric took measurements and GPS coordinates to specifications of the defense wall.

damaged due to the Gibe Ш Dam Project. This research aims to fill the gaps in previous research and suggest community-based conservation measures for the preservation of this cultural heritage.

10. (Chukwuka & Adeogun, 2023)

This research aims to review the status and environment of oxbow lakes in Africa, identify the anthropogenic threats facing these ecosystems, and explore management strategies for their conservation and sustainable use. This review will focus on ecological function and socioeconomic implications for local communities around oxbow lakes in Africa, the threats faced from human activities, and the effectiveness current management strategies.

This review includes a comprehensive analysis of the existing literature on oxbow lakes in Africa. including scheduled research articles, technical reports, and policy documents. This review also involves case studies from different regions of Africa to provide a more nuanced understanding of the diversity of oxbow lakes management systems and challenges. Data sources consist of scientific articles, technical reports and related policy documents. The analysis was carried out by identifying main themes from

Research has found that oxbow lakes are distributed in various river systems in Africa, especially in the Niger, Senegal, Gambia and Okavango basins. Climatic, hydrological, and geological factors influence the distribution and existence of oxbow lakes. Oxbow lakes have important ecological functions such as flood regulation. animal habitat, and fishery resources. Threats faced include dam construction, land change, use urbanization, pollution, eutrophication,

the literature related	overfishing, and
to the status, threats	invasive species.
and management	Sustainable
strategies of oxbow	management
lakes in Africa.	strategies are
	needed to preserve
	this ecosystem.

#### **CONCLUSION**

Based on the results of research contained in 10 previous journals, it can be concluded that effective collaboration between various stakeholders, preserving local customs related to natural resources, and implementing supportive policies are critical factors in efforts to manage natural resource conservation with the aim of achieve sustainable sustainability. These studies show that only by involving various related parties, including local communities, non-governmental organizations, government, and the private sector, and accommodating the cultural values and traditions inherent in customs, can a holistic framework be created and sustainable management of natural resources. Apart from that, the success of conservation also depends heavily on supporting policies, such as regulating resource use, protecting habitat, managing conflicts between stakeholders, and integrating related policies that can strengthen conservation efforts. Thus, strong collaboration, preserving customs, and implementing adequate policies are key elements in maintaining the sustainability of natural resources which are important for the sustainability of ecosystems and human welfare.

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