



Development of a Digital Accounting Framework for Financial Reporting of Marine Conservation Projects

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ABSTRACT

This research aims to develop a digital accounting framework tailored for the financial reporting needs of marine conservation projects, emphasizing the integration of cutting-edge technologies to meet the demands of accountability, transparency, and efficiency in the sector. This study employs a qualitative research methodology to develop a digital accounting framework tailored for the financial reporting of marine conservation projects. The collected data will be analyzed using thematic analysis to identify patterns, themes, and insights related to the development of the digital accounting framework. By integrating stakeholder needs, institutional compliance, and advanced technological tools, the framework addresses key challenges such as transparency, regulatory adherence, and financial efficiency. The adoption of this framework can enhance accountability and operational effectiveness while supporting marine conservation goals.

Keywords: Digital Accounting; Financial Reporting; Marine Conservation Projects

Field: Accounting; Oceanology; Digital

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SDGs: Quality Education (4); Clean Water and Sanitation (6); Decent Work and Economic Growth (8); Climate Action (13); Life Below Water (14); Peace, Justice and Strong Institutions (16)

INTRODUCTION

Research Background

Marine conservation projects play a critical role in preserving ocean biodiversity, mitigating climate change, and supporting the livelihoods of coastal communities (Jacquemont et al., 2022). However, these projects often face challenges in financial management, transparency, and accountability due to the complexity of funding sources and the diversity of stakeholders involved. Traditional financial reporting systems lack the capacity to address the unique demands of these projects, such as tracking funds allocated for ecosystem restoration, monitoring blue carbon credits, or reporting on international grants for conservation initiatives.

Marine conservation projects require a specialized financial reporting approach that goes beyond traditional accounting systems (Ward et al., 2022). Traditional financial reporting systems often fail to capture the unique financial and ecological dimensions of these projects, such as tracking funds allocated for ecosystem restoration, monitoring blue carbon credits, or reporting on international grants for conservation initiatives (Choudhary et al., 2024). These limitations can lead to inefficiencies, lack of transparency, and difficulties in compliance with global environmental standards (Gardner et al., 2019). Without an integrated digital accounting framework (Renaldo, 2023), organizations managing marine conservation projects may struggle to provide accurate, real-time financial insights that align with conservation goals, stakeholder expectations, and regulatory requirements.

The advent of digital accounting technologies, such as blockchain, artificial intelligence (AI), and cloud-based systems, provides a transformative opportunity to address these challenges (Prasetyaningrum & Sonjaya, 2024). By enabling real-time, accurate, and transparent financial reporting, digital accounting frameworks can enhance decision-making, foster stakeholder trust, and ensure compliance with global standards for sustainability. This research aims to develop a digital accounting framework tailored for the financial reporting needs of marine conservation projects, emphasizing the integration of cutting-edge technologies to meet the demands of accountability, transparency, and efficiency in the sector.

The proposed framework will focus on leveraging digital tools to address critical aspects of financial reporting, such as:

- Real-time tracking of funds from diverse sources, including public, private, and philanthropic contributions.
- Compliance with international sustainability standards, such as the United Nations Sustainable Development Goals (SDGs).
- Monitoring and reporting blue carbon credits, a key component in global climate change mitigation strategies.

State of the Art

Digital accounting has undergone significant advancements, offering robust tools and frameworks that are increasingly applied across various sectors. The following highlights the current state of the art in this domain as it pertains to marine conservation projects:

1. Blockchain for Transparency and Accountability

Blockchain technology has emerged as a powerful tool for ensuring transparency in financial transactions (Almadadha, 2024). Studies have demonstrated its effectiveness in tracking funds, reducing fraud, and enabling immutable records for financial reporting. In marine conservation, blockchain has been proposed for managing donations, tracking payments, and certifying the authenticity of blue carbon credits.

2. AI-Driven Financial Analytics

Artificial intelligence and machine learning are revolutionizing financial reporting by automating processes such as anomaly detection, predictive analysis, and fund allocation. In the context of marine conservation, AI can enhance reporting accuracy, predict project costs (Chandra et al., 2024), and identify trends in funding utilization, thereby improving decision-making and resource management (Renaldo, 2024).

3. Cloud-Based Accounting Systems

Cloud technologies offer scalable, real-time financial reporting solutions that are particularly beneficial for organizations operating across multiple geographies, such as international marine conservation projects (Renaldo, Junaedi, Suhardjo, Jahrizal, et al., 2024). Cloud-based systems facilitate collaboration, streamline auditing processes, and reduce operational costs while ensuring data security.

4. Blue Carbon Accounting Standards

Marine ecosystems, such as mangroves, seagrasses, and salt marshes, serve as critical carbon sinks (Choudhary et al., 2024). Blue carbon accounting is a growing field that quantifies carbon sequestration and integrates it into financial reporting frameworks. Recent developments focus on aligning blue carbon accounting with international standards, such as those set by the Intergovernmental Panel on Climate Change (IPCC).

5. Sustainability Reporting Tools

Organizations increasingly adopt sustainability reporting frameworks, such as the Global Reporting Initiative (GRI) and Integrated Reporting (IR), to align financial reporting with environmental, social, and governance (ESG) criteria (Bais et al., 2024). Marine conservation projects can benefit from these frameworks by integrating environmental impact metrics into their financial disclosures.

Research Gap

Despite these advancements, a significant gap exists in the tailored application of digital accounting tools for marine conservation projects. Current systems often lack the specificity needed to address the sector's unique challenges, such as monitoring ecosystem restoration expenditures, managing multi-source funding, and aligning with blue carbon credit protocols. This research seeks to bridge this gap by developing a comprehensive digital accounting framework specifically designed to enhance the financial transparency, accountability, and efficiency of marine conservation initiatives.

LITERATURE REVIEW

Stakeholder Theory

Proposed by Freeman (1984), Stakeholder Theory emphasizes that organizations are accountable not only to shareholders but also to a broader network of stakeholders.

Marine conservation projects inherently involve diverse stakeholders, including governmental agencies, non-governmental organizations (NGOs), local communities, private investors, and international donors (Bennett

et al., 2017). Effective financial reporting in this context requires systems that address the information needs and expectations of these stakeholders.

Application in Marine Conservation Financial Reporting:

- Stakeholders demand transparency in the allocation and utilization of funds to ensure trust and credibility.
- Digital accounting technologies, such as blockchain, can enhance transparency by creating immutable records of transactions, providing stakeholders with verifiable data on how funds are managed.
- Tools like dashboards and real-time reporting platforms enable stakeholder engagement by providing easily accessible and comprehensible financial reports.

Relevant Studies:

- Chen et al. (2020) explored blockchain's role in fostering transparency and trust in environmental projects, highlighting its potential to meet stakeholder demands.
- Michelin et al. (2015) linked stakeholder pressure to improvements in sustainability reporting, which aligns with the principles of accountability in marine conservation projects.

Institutional Theory

Institutional Theory, as articulated by DiMaggio and Powell (1983), examines how organizations conform to societal norms, regulations, and industry standards to gain legitimacy.

Marine conservation projects operate in a highly regulated environment, often requiring compliance with international standards, such as the United Nations Sustainable Development Goals (SDGs) and environmental accounting frameworks like the Global Reporting Initiative (GRI) (Kopnina et al., 2024).

Application in Marine Conservation Financial Reporting:

- Organizations managing marine conservation projects must adhere to these norms to secure funding, maintain credibility, and achieve regulatory compliance.
- Digital accounting systems can streamline compliance by automating reporting processes aligned with regulatory frameworks and standards.
- The integration of sustainability metrics, such as carbon sequestration data, into financial reporting reflects adherence to evolving institutional pressures.

Relevant Studies:

- Bebbington and Larrinaga (2014) emphasized the role of sustainability reporting in aligning organizational practices with institutional expectations.
- Meyer and Rowan (1977) highlighted the importance of conforming to institutionalized rules to gain legitimacy, which is increasingly relevant in environmental reporting.

Resource-Based View (RBV)

The Resource-Based View, introduced by Barney (1991), suggests that an organization's competitive advantage stems from the resources it controls, particularly those that are valuable, rare, inimitable, and non-substitutable (VRIN).

Digital accounting technologies represent a critical resource for organizations involved in marine conservation projects (Klymenko et al., 2021). By leveraging these technologies, organizations can gain a strategic advantage in managing complex financial processes and enhancing operational efficiency.

Application in Marine Conservation Financial Reporting:

- Advanced digital tools, such as AI-driven analytics and cloud-based accounting systems, are valuable resources that provide accuracy, scalability, and real-time insights.
- The ability to integrate ecological data (e.g., blue carbon metrics) into financial reports differentiates organizations that adopt these technologies from their counterparts.
- Investing in robust digital accounting frameworks positions organizations as leaders in sustainability and innovation, increasing their appeal to donors and investors.

Relevant Studies:

- Hart and Dowell (2011) extended RBV to include natural resources, emphasizing how organizations can use environmental management systems for competitive advantage.
- Cao et al. (2021) demonstrated the impact of digital transformation on organizational performance, highlighting the strategic role of digital tools in managing complex projects.

Summary of Theoretical Integration

Stakeholder Theory underscores the need for transparency and accountability to build trust among diverse stakeholders. Institutional Theory highlights the importance of aligning with regulatory and societal expectations to maintain legitimacy. Resource-Based View emphasizes the strategic value of digital technologies in achieving superior performance and differentiation (Renaldo, Junaedi, Suhardjo, Veronica, et al., 2024).

METHODOLOGY

Research Design

This study employs a qualitative research methodology to develop a digital accounting framework tailored for the financial reporting of marine conservation projects (Creswell & Creswell, 2018; Sekaran & Bougie, 2016). The methodology focuses on understanding stakeholder needs, analyzing best practices, and identifying technological requirements for effective financial management in the marine conservation sector.

The research adopts a case study approach, enabling an in-depth exploration of financial reporting practices in marine conservation projects. By analyzing multiple cases, the study will identify common challenges, opportunities, and innovative practices that inform the proposed framework.

Data Collection Methods

To ensure a comprehensive understanding of the topic, the study will employ the following qualitative data collection techniques:

1. Semi-Structured Interviews

- Participants: Key stakeholders, including project managers, financial officers, donors, government officials, and technology experts involved in marine conservation projects.
- Focus: Understanding financial reporting challenges, stakeholder expectations, and perceptions of digital accounting technologies.
- Sample Size: Approximately 15–20 participants selected through purposive sampling.

2. Document Analysis

- Sources: Financial reports, sustainability reports, blue carbon credit documents, and regulatory guidelines related to marine conservation projects.
- Focus: Identifying gaps in current reporting practices and analyzing compliance with international standards such as SDGs and GRI.

3. Observations

- Scope: Observing the financial management processes of selected marine conservation projects to understand operational challenges and the integration of digital tools.
- Setting: On-site or virtual observations of project teams managing funds and reporting processes.

Data Analysis

The collected data will be analyzed using thematic analysis to identify patterns, themes, and insights related to the development of the digital accounting framework. The process involves:

- Data Familiarization: Transcribing interviews, reviewing documents, and organizing observation notes.
- Coding: Assigning codes to data segments that reflect challenges, needs, and best practices in financial reporting.
- Theme Development: Grouping codes into broader themes, such as stakeholder transparency, compliance challenges, and technological requirements.

- Interpretation: Synthesizing themes to derive insights for designing the digital accounting framework.

Validation Techniques

To enhance the credibility and trustworthiness of the findings, the study will use:

- Triangulation: Cross-verifying data from interviews, documents, and observations to ensure consistency.
- Member Checking: Sharing preliminary findings with participants to confirm accuracy and validity.
- Peer Review: Seeking feedback from experts in digital accounting and marine conservation to refine the framework.

Ethical Considerations

The study adheres to ethical research standards by:

- Obtaining Informed Consent: Participants will be fully informed about the study's purpose, methods, and confidentiality measures before agreeing to participate.
- Ensuring Confidentiality: Personal data and sensitive information will be anonymized and securely stored.
- Voluntary Participation: Participants will have the right to withdraw at any stage of the research without consequences.

RESULTS AND DISCUSSION

Results

Financial Reporting Challenges in Marine Conservation Projects

Themes identified:

- Lack of Standardized Reporting Practices: Participants highlighted inconsistencies in financial reporting formats, which hinder comparability and transparency across projects.
- Stakeholder Expectations for Transparency: Donors and local communities expect detailed and timely financial updates, yet many projects lack the digital tools necessary to meet these demands.
- Complexity of Compliance: Marine conservation projects face significant challenges in aligning their reporting with international frameworks such as the Global Reporting Initiative (GRI) and the United Nations Sustainable Development Goals (SDGs).

Opportunities for Digital Integration

Themes identified:

- Potential of Blockchain Technology: Participants suggested that blockchain could improve transparency and accountability by providing immutable financial records.
- Automation for Regulatory Compliance: Digital tools such as AI-based analytics and cloud systems can streamline compliance with environmental accounting standards.
- Integration of Ecological Metrics: Several stakeholders emphasized the importance of incorporating blue carbon data and biodiversity impact metrics into financial reports.

Stakeholder-Centric Needs

Themes identified:

- User-Friendly Reporting Tools: Stakeholders prefer intuitive dashboards and real-time access to financial data.
- Customization for Local Contexts: Financial frameworks need to accommodate the unique economic and ecological contexts of each marine conservation project.
- Enhanced Collaboration: Digital platforms that enable multi-stakeholder engagement were identified as critical for fostering trust and joint decision-making.

Discussion

Stakeholder Theory

The results confirm the centrality of stakeholder expectations in shaping financial reporting practices. The demand for transparency, real-time updates, and stakeholder-specific customization aligns with the theory's emphasis on addressing diverse stakeholder interests.

Linkage to results:

- The integration of blockchain technology directly addresses stakeholders' demand for transparency by providing immutable and accessible records.
- Real-time reporting dashboards align with stakeholder needs for continuous engagement and trust-building.

Implication for the framework is the proposed digital accounting framework must prioritize transparency and user-friendliness to satisfy stakeholders, ensuring that information is accessible and tailored to their needs.

Institutional Theory

The findings highlight the importance of compliance with regulatory and institutional standards, such as SDGs and GRI. Institutional Theory underscores that organizations gain legitimacy by aligning their practices with such frameworks.

Linkage to results:

- The complexity of compliance identified in the results reflects institutional pressures to conform to global standards.
- Automation of compliance processes through AI and other digital tools demonstrates how organizations can address these institutional demands effectively.

Implication for the framework is the framework should include automated compliance modules that facilitate adherence to international standards, reducing administrative burdens and ensuring legitimacy.

Resource-Based View (RBV)

The adoption of digital accounting technologies is a strategic resource that can enhance organizational performance and differentiation. This aligns with RBV's focus on leveraging unique resources to gain a competitive edge.

Linkage to results:

- Blockchain and AI-based tools represent valuable, rare, and inimitable resources that improve operational efficiency and reporting quality.
- Integrating ecological data, such as blue carbon metrics, into financial reports is a novel capability that sets organizations apart.

Implication for the Framework

The digital accounting framework should integrate advanced technologies, positioning organizations as leaders in marine conservation and financial management innovation.

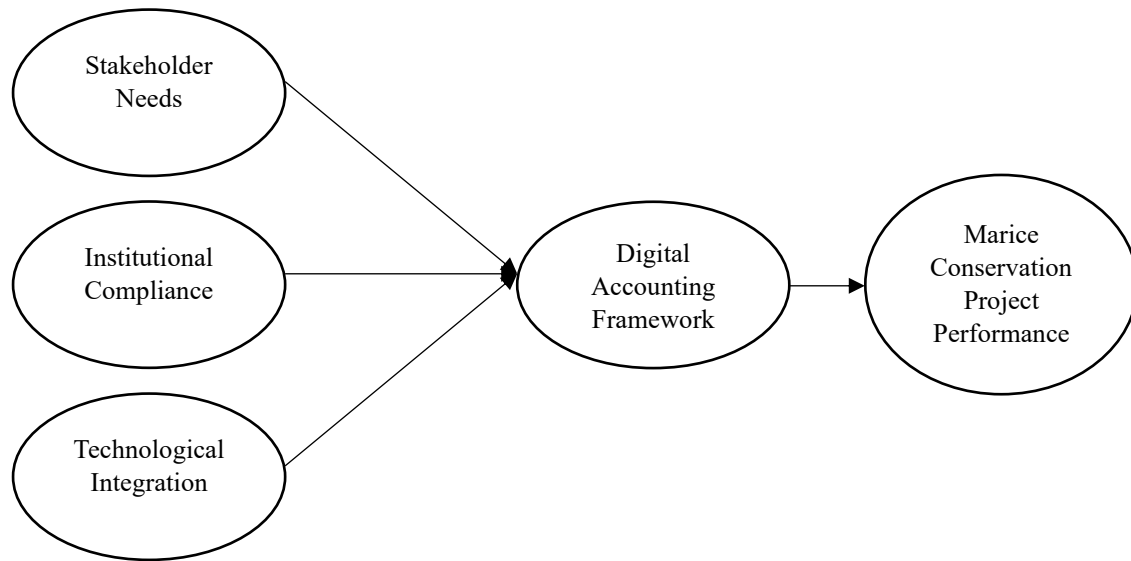


Figure 1. Digital Accounting Framework

This framework illustrates how various factors contribute to the development of a Digital Accounting Framework, which in turn enhances Marine Conservation Project Performance. The model consists of three key antecedents that influence the digital accounting framework:

1. Stakeholder Needs

- Marine conservation projects involve multiple stakeholders, including governments, NGOs, donors, and local communities (White et al., 2022).
- These stakeholders demand transparency, accountability, and efficient financial reporting to track funding and project outcomes.
- The digital accounting framework must address these needs to ensure trust and compliance.

2. Institutional Compliance

- Marine conservation initiatives are subject to international environmental regulations, grant requirements, and sustainability reporting standards (Richard, 2024).
- A digital accounting system must ensure compliance with these regulatory frameworks, facilitating standardized reporting and audits.

3. Technological Integration

- The adoption of digital tools such as blockchain for transparency, AI for predictive financial analysis, and cloud computing for real-time reporting enhances the efficiency and accuracy of financial tracking.
- These technologies enable automation, fraud prevention, and integration of environmental metrics like blue carbon credit accounting into financial reports.

Digital Accounting Framework

This is the central component of the model, serving as a structured system that integrates stakeholder demands, regulatory requirements, and digital technologies to enhance financial reporting for marine conservation projects. It enables real-time tracking of funds, ensures compliance, and facilitates transparent reporting.

Impact on Marine Conservation Project Performance

A well-implemented digital accounting framework enhances project performance by:

- Improving financial transparency and accountability.
- Ensuring efficient allocation and tracking of funds for ecosystem restoration.

- Strengthening compliance with international environmental regulations and grant requirements.
- Enhancing stakeholder confidence and engagement in marine conservation efforts.

CONCLUSION

Conclusion

This study presents a comprehensive digital accounting framework tailored for marine conservation projects. By integrating stakeholder needs, institutional compliance, and advanced technological tools, the framework addresses key challenges such as transparency, regulatory adherence, and financial efficiency. The adoption of this framework can enhance accountability and operational effectiveness while supporting marine conservation goals.

Implications

For practical implications, organizations managing marine conservation projects can utilize the framework to streamline financial reporting and integrate ecological metrics, thereby improving transparency and trust among stakeholders. Automation and digital tools reduce the complexity of compliance, enabling organizations to focus resources on conservation efforts.

For theoretical implications, this study bridges the gap between stakeholder theory, institutional theory, and the resource-based view (RBV) in the context of marine conservation. It demonstrates the strategic importance of digital accounting in achieving sustainable outcomes.

Limitations

The framework is designed specifically for marine conservation projects, which may limit its applicability to other sectors. The integration of ecological metrics such as blue carbon requires robust data, which may not always be accessible. Implementation depends on access to advanced technologies like blockchain and AI, which might not be feasible for smaller organizations.

Recommendations

For practitioners, adopt pilot programs to test the feasibility of the framework in specific marine conservation projects. Invest in training for staff to effectively use digital accounting tools.

For policymakers, provide subsidies or grants to encourage the adoption of digital accounting technologies in conservation efforts. Develop standardized guidelines for integrating financial and ecological metrics.

Future Research

Future research can do cross-sector applicability like explore how the framework can be adapted for other conservation initiatives, such as forestry or freshwater ecosystems (Renaldo, Suhardjo, et al., 2024). To impact evaluation, conduct longitudinal studies to evaluate the long-term impact of the framework on financial performance and conservation outcomes. To technological innovations, investigate emerging technologies, such as the Internet of Things (IoT) and machine learning, for further enhancement of the framework. For stakeholder perceptions, analyze how stakeholders, including donors and local communities, perceive the integration of digital accounting in conservation projects.

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