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AHP and CLD as Pre-Research Tools for Strategic ESG-Based **Competency Models: A Resource-Based View in Action**

Eko Tama Putra Saratian¹, Taufik Akbar², Suparno³, Saparuddin Mukhtar⁴

¹Universitas Mercu Buana ^{2,3,4}Universitas Negeri Jakarta

eko.tama@mercubuana.ac.id

Abstract

This study proposes an integrated pre-research framework using the Analytic Hierarchy Process AHP and Causal Loop Diagrams CLD to model strategic ESG-based competencies within the context of Islamic banking, grounded in the Resource-Based View RBV. As ESG considerations increasingly become critical to organizational performance and competitive advantage, especially for value-driven institutions such as Islamic banks, early-stage modeling is essential for identifying key resources and dynamic interactions. AHP is employed to prioritize critical competencies such as crisis response, ESG integration, and innovation based on expert judgment, while CLD is used to visualize feedback structures linking these competencies to sustainable competitive advantage and strategic business performance. The findings demonstrate how AHP and CLD can complement each other in refining theoretical frameworks by combining quantitative prioritization with qualitative system dynamics. This hybrid approach not only enhances conceptual clarity and model robustness but also serves as a diagnostic foundation before empirical validation. The framework offers significant implications for strategic planning in ESG-sensitive industries, contributing methodologically to RBV applications and practically to ESG adoption in Islamic banking.

Keywords: Analytical Hierarchy Process, Causal Loop Diagrams, Strategic Decision Making, Resource-Based View, Sustainability, Banking Sector

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1. Introduction

increasingly demands environmental, social, and value creation, particularly in dynamic and uncertain governance (ESG) responsibility, sustainability has markets [5][6]. ESG integration can lead to reputational become a strategic element in the management of benefits, improved risk management, and access to Islamic banks. Different from conventional banking capital, enabling firms to outperform competitors in systems, Islamic banking has a foundation of sharia both financial and non-financial dimensions [7]. values that are in line with the principles of sustainable However, ESG adoption also presents significant development, such as justice, social responsibility, and challenges. Firms with limited resources may struggle prohibition of exploitation [1]. The implementation of to meet ESG compliance standards, and the allocation sustainable performance not only improves the image of capital to ESG initiatives may create trade-offs with of Islamic financial institutions but also has a positive short-term impact on long-term financial resilience [2]. Several organizational resistance and limited capabilities may studies have shown that the integration of sustainability constrain ESG-driven transformation [8]. This dual role indicators with the Sustainable Development Goals of ESG as both an enabler and a constraintunderscores (SDGs) strengthens the strategic position of Islamic the necessity for firms to balance strategic intent with banks in facing the global crisis and market operational realities. The resource-based view (RBV) competition [3][4]. In addition, the magasid al-shariah and stakeholder theory offer critical frameworks to approach in evaluating the performance of Islamic understand how ESG can either unlock or limit a firm's banks has been shown to strengthen the legitimacy and strategic potential [2]. social accountability of these institutions [5] Therefore, sustainable performance is no longer just a moral choice, but a strategic necessity to maintain the competitiveness, stability and sustainability of the Islamic financial system globally.

competitive advantage. Organizations that embed ESG principles into their core operations often demonstrate In the era of global financial transformation that enhanced innovation, stakeholder trust, and long-term profitability [**7**][**8**].

Despite the growing emphasis on Environmental, Social, and Governance (ESG) integration in strategic management, the application of the Resource-Based View (RBV) in early-stage modeling remains conceptually underdeveloped. While RBV has been The growing emphasis on Environmental, Social, and widely used to explain sustainable competitive Governance (ESG) standards has reshaped corporate advantage, few studies have rigorously modeled how strategy, positioning ESG not only as a regulatory or ESG-driven capabilities function as strategic resources ethical imperative but as a strategic source of during the formative phases of organizational ESG maturity [5]. This gap becomes especially critical as academic prerequisite but also a strategic step toward early ESG adoption is increasingly viewed not only as a knowledge advancement and scholarly contribution. compliance effort but as a dynamic capability with transformative potential [7]. However, early-stage models tend to emphasize external drivers such as stakeholder pressure or regulatory compliance, neglecting how internal resource configurations evolve to embed ESG within firm strategy [4]. Furthermore, there is a lack of consensus on which ESG-related resources meet the VRIN criteria outlined in the RBV framework [6][7]. As a result, scholars call for the development of formal RBV-ESG integration models that capture this strategic interplay from inception through maturity, enabling a deeper understanding of ESG as both a resource and an organizational capability.

advantages in problem structuring, conceptual modeling before dynamic interrelationships and feedback structures dynamic markets. within complex systems, which is particularly useful in sustainability, ESG, and socio-technical studies [3][5]. When used together, AHP and CLD provide a complementary framework that integrates prioritization logic with system-level insight enhancing conceptual model clarity and empirical readiness. Their synergy not only strengthens theoretical grounding but also ensures that empirical research is anchored in a wellstructured diagnostic phase.

objectives is foundational to the integrity, relevance, managerial actions involved in structuring, bundling, and overall success of any scholarly investigation. A and leveraging resources to optimize organizational robust research question serves as the compass that outcomes [12]. In the banking sector, where operational directs the scope, design, and analytical trajectory of a resilience and strategic alignment are vital, structured study, ensuring that research efforts remain purposeful resource orchestration supports transformation by and coherent [8]. Moreover, explicit objectives function aligning human, technological, and knowledge assets as operational milestones, enabling researchers to with business strategy. For instance, Ahmed and systematically test hypotheses, address gaps in colleagues literature, and generate measurable outcomes. When significantly mediates the relationship between aligned with theoretical frameworks well-structured research Yet, methodological rigor, questions can significantly improve the quality and operationalization of RBV in financial services, impact of academic publications. However, many necessitating more standardized constructs early-career researchers struggle with the formulation empirical models to translate resource potential into of focused and researchable questions, leading to measurable performance. Therefore, advancing the poorly scoped studies or ambiguous findings [9]. The theoretical utility of RBV in banking hinges on literature increasingly emphasizes the necessity of integrating it with resource orchestration frameworks integrating problematization and feasibility criteria that support strategic agility, especially under digital such as specificity, significance, and relevance to craft and ESG-driven reforms. research questions that resonate with both academic and practical audiences [10]. In sum, articulating precise research questions and objectives is not only an

The Resource-Based View (RBV) provides a foundational perspective in strategic management by positing that a firm's sustainable competitive advantage stems from the possession and strategic deployment of resources that are valuable, rare, inimitable, and nonsubstitutable (VRIN) [10]. This logic assumes that internal firm-specific resources, when aligned effectively with strategic goals, can yield enduring performance differentials in competitive markets. However, VRIN resources alone are insufficient in volatile environments without the firm's ability to dynamically reconfigure and redeploy them. This gap is addressed by the concept of dynamic capabilities, which enable organizations to integrate, build, and In the early stages of research particularly the pre-reconfigure internal and external competences in empirical phase employing structured decision-support response to environmental change [11]. The interplay tools such as the Analytic Hierarchy Process (AHP) between RBV and dynamic capabilities has prompted and Causal Loop Diagrams (CLD) offers distinct scholars to explore resource orchestration, a theory variable that explains how leaders structure, bundle, and prioritization, and systems understanding. AHP leverage firm resources to generate and renew facilitates rigorous prioritization of criteria based on capabilities over time. Through this lens, strategic expert judgment, ensuring transparent decision-making advantage is not just a function of possessing VRIN where data are scarce or qualitative in nature [5]. This resources, but also of managerial capability in method allows researchers to convert subjective coordinating them through agile orchestration insights into quantifiable weights, thereby supporting mechanisms. These integrative perspectives have empirical reshaped contemporary understandings of capability validation. In parallel, CLD enables the mapping of development, innovation, and firm adaptability in

The Resource-Based View (RBV) emphasizes that sustainable competitive advantage stems from the possession of strategic resources that are valuable, rare, inimitable, and non-substitutable (VRIN). However, in complex sectors such as banking where resources are largely intangible and capabilities evolve dynamically RBV requires operationalization through structured frameworks to be truly effective. This is where resource orchestration becomes critical. Resource Formulating a clear research question and well-defined orchestration extends RBV by highlighting the found that resource orchestration and leadership strategy and resilience in Kenyan banks. ambiguity persists in the

> Environmental, Social, and Governance (ESG) factors have transitioned from being peripheral compliance issues to becoming core strategic drivers that shape

ethical culture, sustainable practices, and governance instrument in modern strategic decision modeling. transparency are harder to replicate and thus can serve as a source of sustained competitive advantage. In fact, ESG dimensions are now frequently embedded into valuation models and strategic decision-making processes, especially in knowledge-intensive sectors, where intangible value creation outweighs physical assets, the integration of ESG into organizational systems enhances dynamic capabilities and reinforces a firm's adaptability to external shocks and regulatory transitions. As ESG performance becomes more material to investors and regulators, firms with strong ESG profiles are increasingly perceived as resilient and future-ready, further validating ESG as a critical intangible and strategic asset.

principles have evolved from peripheral considerations conflicting objectives in strategic contexts [16]. into critical strategic drivers that reshape how firms Moreover, AHP's capacity to incorporate expert define value and competitive advantage. The strategic judgments and integrate stakeholder preferences integration of ESG aligns closely with stakeholder positions it as a reliable method in high-stakes, satisfying the needs and expectations of a broad strategy, resource allocation, and risk management. The oriented organizational legitimacy, and access to sustainable intelligence, further expands its applicability and capital, all of which directly impact corporate resilience effectiveness in addressing modern strategic challenges and innovation. Furthermore, ESG practices foster [16]. strategic differentiation, enabling firms to signal societal commitment to well-being, thereby strengthening brand value and stakeholder loyalty [13]. From a strategic standpoint, ESG is no longer viewed as a cost center but as a platform for stakeholder engagement and value co-creation, with growing evidence linking ESG performance to improved financial and reputational outcomes [14]. Thus, ESG serves not only as a governance framework but also as a mechanism for stakeholder alignment and strategic foresight increasingly volatile business environments.

useful in aligning stakeholder preferences and ranking decision-making enables evaluation, decision-makers AHP capacity to integrate both qualitative judgments and modeling [16]. quantitative data makes it uniquely suitable for synthesizing expert input in early-stage policy and planning decisions. Literature also supports hybrid approaches combining AHP with methods like VIKOR,

competitive positioning and long-term corporate value. TOPSIS, or PROMETHEE to enhance robustness and ESG initiatives increasingly function as intangible sensitivity in multi-criteria prioritization [14]. As assets that contribute to a firm's brand equity, strategic environments grow more uncertain and stakeholder trust, and innovation capacity [13]. Unlike multidimensional, AHP's ability to balance competing tangible resources, ESG-related intangibles such as objectives and stakeholder expectations makes it a core

The Analytic Hierarchy Process (AHP) has become a pivotal tool in strategic decision modeling, particularly effective in managing complexity inherent in multicriteria decision-making environments. AHP enables decision-makers to structure complex problems into a hierarchical framework, facilitating evaluation and prioritization of alternatives through pairwise comparisons [15]. Its strength lies in simplifying the cognitive burden by breaking down intricate strategic problems manageable into subcomponents, thereby enhancing consistency and transparency in decision outcomes. Recent studies underscore AHP's robustness in handling both quantitative and qualitative criteria, providing a flexible Environmental, Social, and Governance (ESG) yet rigorous approach to address uncertainty and theory, which asserts that long-term success depends on complex decision environments such as corporate spectrum of stakeholders not just shareholders. ESG- ongoing advancement in AHP methodologies, strategies enhance stakeholder trust, including hybrid models and integration with artificial

Causal Loop Diagrams (CLDs) have gained significant traction as an effective tool in strategic feedback modeling by visually representing the dynamic interdependencies among variables within complex systems. CLDs enable decision-makers to map out feedback loops that capture cause-and-effect relationships, helping to reveal how changes in one variable propagate throughout the system over time [15]. This visual approach facilitates a deeper understanding of system behavior by highlighting reinforcing and balancing feedback mechanisms, which are crucial for anticipating unintended consequences The Analytic Hierarchy Process (AHP) has emerged as and designing robust strategies [16]. Recent research a widely accepted decision-support tool in strategic emphasizes CLDs' strength in simplifying the modeling, particularly when dealing with complex, complexity of strategic environments by making multi-criteria environments. Its structured pairwise interrelations explicit, thus improving communication comparison and prioritization logic are particularly among stakeholders and enhancing collaborative processes. Furthermore, strategic alternatives under uncertainty. In strategic integration of CLDs with simulation techniques such as decision-making contexts such as urban development, System Dynamics has expanded their utility, allowing healthcare planning, energy policy, and sustainability for both qualitative and quantitative analyses that to support strategic planning and policy development. The decompose complex problems into hierarchies of evolving methodologies surrounding CLDs continue to criteria and sub-criteria facilitating transparent, bolster their applicability in diverse sectors, reinforcing repeatable, and justifiable outcomes. The method's their role as a foundational tool in strategic feedback

> Causal Loop Diagrams (CLDs) serve as a powerful analytical tool in strategic feedback modeling, especially in the context of dynamic sustainability strategies. By visually capturing the complex feedback

identify leverage points and potential unintended development. consequences within sustainability systems, facilitating adaptive management and policy formulation. Recent studies highlight how CLDs contribute to dynamic strategy development by modeling how interventions impact long-term sustainability goals, accommodating nonlinearities and time delays inherent in socioecological systems. Furthermore, integrating CLDs with simulation tools like System Dynamics enhances analysis, supporting organizations and governments in designing resilient and flexible sustainability strategies that respond to changing conditions and stakeholder feedback [14]. These advances underscore the growing relevance of CLDs in enabling strategic foresight and learning within complex sustainability transitions.

2. Research Method

This study employs an exploratory qualitative research design as a pre-research phase aimed at gaining an indepth understanding of the phenomenon under investigation. Exploratory qualitative research is particularly effective when the subject matter is complex or not yet well-defined, allowing for the discovery of patterns, themes, and insights that can guide further investigation [17]. Through open-ended interviews, focus groups, and thematic analysis, this The methodology incorporates expert pairwise

This study employs a mixed-method research design that integrates expert judgment for the Analytic Hierarchy Process (AHP) and systems thinking principles for developing Causal Loop Diagrams (CLD). Expert judgment is crucial in AHP as it involves structured pairwise comparisons based on the insights and experience of domain specialists, ensuring that the criteria weights and priorities reflect informed and contextually relevant evaluations [21]. To complement this, systems thinking underpins the The construction of the Causal Loop Diagram (CLD) in feedback complex loops combined use of expert knowledge and systems dynamic

environmental, social, and integrated approach to improve decision support economic variables, CLDs enable decision-makers to systems by capturing both quantitative priorities and understand the interconnected and evolving nature of qualitative systemic insights, thereby fostering sustainability challenges. The use of CLDs helps comprehensive understanding and robust strategy

> The development of the Analytic Hierarchy Process (AHP) model in this study follows a structured hierarchical approach, which organizes the decision problem into three levels: goal, criteria, and subcriteria. This hierarchical structuring is fundamental to AHP, as it decomposes complex decisions into manageable components, enabling evaluation and prioritization. At the top of the hierarchy is the overarching goal, which guides the decisionmaking focus. This is followed by the criteria level, representing the key factors influencing the decision, and further refined into sub-criteria that capture more specific aspects within each criterion. Structuring the hierarchy in this way facilitates precise pairwise comparisons and enhances the consistency of expert judgments. Recent advancements emphasize the importance of carefully defining sub-criteria to reflect nuanced stakeholder perspectives and improve the model's sensitivity and accuracy in capturing realworld complexities. This hierarchical development is supported by software tools that assist in organizing criteria, computing weights, and aggregating results, thereby ensuring a rigorous and transparent decisionmaking process.

approach facilitates rich data collection and comparison as a core technique in the Analytic interpretation from participants' perspectives, which is Hierarchy Process (AHP) to quantify the relative critical for building foundational knowledge [18]. importance of criteria and alternatives. Experts provide advances in qualitative methodologies judgments by comparing elements in pairs, expressing emphasize the iterative nature of exploratory research, their preferences on a scale, which allows for a highlighting its role in refining research questions and structured and systematic evaluation process [17]. This informing subsequent quantitative or mixed-method method captures subjective expert knowledge while studies [19]. Additionally, the use of digital tools and minimizing cognitive overload by focusing on simpler software for qualitative data management has enhanced binary comparisons. To ensure the reliability and the rigor and transparency of exploratory studies, validity of these judgments, the consistency ratio (CR) contributing to more reliable and valid findings [20]. is calculated, measuring the logical coherence of the Overall, the exploratory qualitative pre-research phase pairwise comparison matrix. A CR value of less than serves as a crucial step in ensuring the relevance and 0.10 is generally accepted as indicating satisfactory contextual appropriateness of the main research design. consistency, meaning that the expert judgments are reliable and the results can be confidently used in decision-making. Recent studies have proposed enhanced algorithms and software tools to facilitate the calculation and interpretation of the consistency ratio, further improving the robustness of the AHP methodology. This combination of expert input and consistency assessment forms the foundation for credible and transparent multi-criteria decision analysis.

construction of CLDs by enabling the visualization and this study involves systematically mapping the causal and relationships among key strategic variables, including interdependencies among system variables [22]. The Environmental, Social, and Governance (ESG) factors, capabilities, sustainable thinking enhances the rigor and validity of strategic advantage (SCA), and strategic business performance modeling, particularly when addressing multifaceted (SBP). This process begins with identifying relevant problems with dynamic and interconnected factors, variables through literature review and expert Recent methodological advances advocate for this consultation, followed by delineating the directional influences and feedback loops that illustrate how these most elements interact dynamically. The CLD serves as a effectiveness. The weighted rankings guide decisionqualitative tool to capture the complexity and makers in allocating limited resources toward areas interdependencies within the system, enabling with the highest impact, such as crisis response visualization of reinforcing and balancing loops that capabilities, ESG initiatives, and innovation efforts. affect long-term strategic outcomes [22]. By explicitly This targeted allocation supports optimal utilization of mapping these relationships, the study uncovers financial, human, and technological resources, ensuring leverage points for intervention and supports a holistic alignment with strategic objectives and enhancing understanding of how ESG initiatives and dynamic competitive positioning. Moreover, the prioritization capabilities collectively drive SCA and SBP. Recent framework aids in balancing short-term operational methodological advancements recommend iterative demands refinement of CLDs with stakeholder involvement to facilitating adaptive and resilient resource management. ensure accuracy and relevance, as well as integration The robustness of these recommendations is reinforced

The construction of the Causal Loop Diagram (CLD) in this study involves a detailed identification of key feedback loops, time delays, and reinforcing factors that characterize the dynamic behavior of the system under investigation. Feedback loops are mapped by analyzing how variables influence one another in The constructed Causal Loop Diagram (CLD) cyclical patterns, either reinforcing (positive feedback) identified core reinforcing and balancing feedback or balancing (negative feedback), which drive system loops that elucidate how Environmental, Social, and behavior over time. Time delays are explicitly Governance (ESG) practices influence Strategic incorporated to capture the lag between cause and Business Performance (SBP) through Sustainable effect, an essential feature for accurately modeling real- Competitive Advantage (SCA). The reinforcing loop world processes and avoiding premature conclusions. highlights a positive feedback mechanism where strong Reinforcing factors, which amplify changes within the ESG adoption enhances SCA by building reputation, system, are identified through expert consultation and operational efficiencies, and stakeholder trust, which in literature synthesis to understand their impact on turn improves SBP outcomes such as profitability and system growth or decline. This systematic approach to market position. Conversely, balancing loops reveal CLD understanding of complex system dynamics and moderate informs strategic decision-making by highlighting overextension and ensuring sustainable growth. These leverage points and potential unintended consequences. feedback structures underscore the dynamic interplay Recent advancements emphasize iterative validation of where ESG initiatives act as catalysts for long-term feedback structures with stakeholders to enhance model competitive advantage, thereby continuously driving accuracy and applicability in diverse contexts [22].

3. Results and Discussion

The AHP prioritization results revealed a clear ranking of key resource competencies critical for strategic advantage, with crisis response, ESG adoption, and innovation emerging as the most influential factors. Crisis response was ranked highest, reflecting its immediate impact on organizational resilience and ability to navigate uncertainties effectively. ESG adoption followed closely, underscoring the growing importance of sustainable and ethical practices in driving long-term competitiveness and stakeholder trust. Innovation was also prioritized significantly, highlighting its role in enabling adaptability and continuous value creation in dynamic markets. The consistency ratio for the pairwise comparison matrix was below the accepted threshold, confirming the reliability of expert judgments. These outcomes provide actionable insights for resource allocation and strategic focus, emphasizing competencies that align with contemporary challenges and sustainability imperatives.

The AHP prioritization outcomes provide critical complex system behavior, ultimately fostering resilient implications for strategic resource allocation by and sustainable growth. identifying which competencies and factors warrant the

investment to maximize with long-term sustainability with simulation models for enhanced strategic analysis. by the consistency ratio metrics, validating expert consensus and reinforcing confidence in prioritization results. Overall, the AHP-driven insights enable organizations to make informed, transparent, and strategic decisions about resource distribution under conditions of complexity and uncertainty.

construction supports a comprehensive regulatory pressures and resource constraints that **ESG** implementation, improved business performance. The analysis aligns with recent findings emphasizing the importance of integrating sustainability into core strategic frameworks to foster resilient and adaptive organizations.

> Simulation of the Causal Loop Diagram (CLD) provided valuable insights into strategic leverage points within the system, revealing critical variables where yield targeted interventions can significant improvements in organizational outcomes. modeling the dynamic interactions and feedback loops among variables such as ESG practices, dynamic capabilities, and strategic business performance, the simulation identified leverage points that amplify positive reinforcing loops and mitigate balancing constraints. For instance, enhancing investment in ESG initiatives was found to accelerate sustainable competitive advantage development, creating a virtuous cycle that boosts long-term performance. Additionally, the simulation highlighted time delays in capabilitybuilding processes, suggesting that early and sustained efforts are essential to avoid performance bottlenecks. These insights enable decision-makers to prioritize resources and design adaptive strategies that align with

through the lens of the Resource-Based View (RBV), captured in the CLD highlight how ESG initiatives which emphasizes the role of unique, valuable, and reinforce sustainable competitive advantage and longinimitable resources in achieving sustained competitive term financial performance, supporting the dual advantage. The prioritization of competencies such as mandate of profitability and ethical responsibility crisis response, ESG adoption, and innovation aligns central to Islamic finance. This integrated approach with RBV's assertion that firms must leverage internal provides Islamic banks with robust tools to navigate the strengths to outperform competitors in dynamic complexities of ESG adoption while aligning strategic environments. The identified feedback loops in the decisions with their foundational values, ultimately CLD further reinforce the RBV by illustrating how contributing to resilient and responsible banking strategic resources and capabilities interact dynamically practices. to generate and sustain superior business performance over time. In particular, ESG practices emerge as strategic assets that enhance reputation and stakeholder engagement, fitting the RBV criteria of resources that are valuable, rare, and difficult to imitate. These insights support the argument that integrating sustainability within the core resource base not only drives competitive advantage but also builds organizational resilience and adaptability in uncertain markets. Consequently, this study extends RBV theory by incorporating system dynamics perspectives, highlighting the importance of feedback mechanisms in resource deployment and strategic value creation.

and Causal Loop Diagrams (CLD) significantly assets and capabilities are optimally deployed to enhances early theory structuring by combining support strategic priorities, especially in complex quantitative prioritization with qualitative system environments where balancing short-term demands dynamics visualization. AHP provides a systematic with long-term sustainability is challenging. Integrating method for capturing expert judgments and quantifying these elements creates a cohesive strategic framework the relative importance of variables, which helps to that facilitates adaptive leadership, strengthens clarify and rank key constructs in the initial theory stakeholder relationships, and optimizes resource development stage. Meanwhile, CLD complements this utilization, by mapping the complex interdependencies and resilience and performance in dynamic markets. feedback loops among these variables, offering a holistic view of dynamic relationships that are often overlooked in traditional linear models. This synergy This research makes a substantial contribution by allows researchers to iteratively refine theoretical developing a novel mixed-method framework that frameworks, identifying critical leverage points and integrates Analytical Hierarchy Process (AHP) and feedback mechanisms that underpin system behavior. Causal Loop Diagrams (CLD) to enhance strategic Furthermore, the AHP-CLD approach supports the decision-making and theory development within validation of theoretical assumptions by ensuring complex organizational contexts. By combining consistency and comprehensiveness, thereby reducing quantitative prioritization with dynamic system ambiguity and enhancing the robustness of emerging visualization, the study addresses critical gaps in theories. Overall, this combined methodology existing models, particularly within Resource-Based represents a powerful tool for advancing theory View (RBV) and ESG-focused strategies, offering a development in complex strategic and sustainability more holistic and actionable approach. The findings contexts, bridging quantitative rigor with dynamic provide both theoretical advancement and practical complexity.

The relevance of this study's findings to Islamic banks pursuing ESG-driven strategies is particularly significant, as these institutions inherently emphasize ethical, social, and environmental considerations aligned with Shariah principles. Islamic banks are uniquely positioned to integrate ESG criteria into their strategic frameworks, enhancing both compliance and competitive advantage in increasingly sustainabilityconscious markets. The application of AHP and CLD methodologies facilitates the identification and prioritization of ESG factors most critical to Islamic banking performance, such as social justice, environmental stewardship, and governance

The findings of this study can be effectively interpreted transparency. Moreover, the dynamic feedback loops

The study's findings underscore several strategic implications crucial for effective organizational management, particularly in the areas of leadership focus, stakeholder mapping, and resource alignment. Leadership plays a pivotal role in driving ESG initiatives and sustaining competitive advantage by fostering a culture of innovation and ethical responsibility, which enhances decision-making quality and organizational agility. Effective stakeholder mapping is essential to identify and prioritize key internal and external actors whose interests and influence can impact strategic outcomes, enabling more targeted engagement and collaborative value creation. The integration of Analytical Hierarchy Process (AHP) Furthermore, resource alignment ensures that critical ultimately enhancing

4. Conclusion

tools for managers, especially in the banking sector, to better align resources, engage stakeholders, and navigate the dynamic interactions inherent in sustainability initiatives. Moreover, the methodological innovation of using AHP-CLD as a pre-modeling step prior to empirical validation reinforces model robustness and clarity, paving the way for more precise and reliable future research. Overall, this study contributes to bridging the gap between theory and practice by delivering an integrative framework that supports both rigorous academic inquiry and effective managerial decision-making in complex, evolving environments. The integration of Analytical Hierarchy Process (AHP) and Causal Loop Diagrams (CLD) offers a powerful bridge between conceptual theory and of strategic research frameworks. By enabling systematic prioritization of key variables through AHP and capturing their dynamic interrelationships with CLD, this combined approach facilitates clearer theory structuring before advancing to quantitative testing [6] Tan, Y., & Zhu, Z. (2022). The Effect Of ESG Rating Events On methods such as Structural Equation Modeling (SEM). This methodological innovation addresses common challenges in model development, such as variable selection and complexity management, thereby improving construct validity and reducing model misspecification risks. Moreover, the AHP-CLD framework supports scholars and practitioners in translating abstract theoretical concepts into actionable insights, fostering more robust and contextually grounded empirical studies. Overall, this approach represents a significant advancement in bridging the gap between theory and practice, promoting more effective and reliable strategic decision-making in [9] Su, X., Wang, S., & Li, F. (2023). The Impact of Digital dynamic environments. Future research should focus on empirical testing of the proposed framework using advanced quantitative techniques such as Structural Equation Modeling (SEM) and Partial Least Squares (PLS) to validate the relationships and constructs identified through the AHP-CLD approach. These methods can provide robust statistical evidence of model fit and predictive power, thereby enhancing the generalizability and reliability of the theoretical propositions. Additionally, comparative case studies across diverse organizational contexts and industries can offer valuable insights into contextual factors [12]Cronje, J. C. (2020). Designing Questions For Research Design influencing the framework's applicability effectiveness, enabling refinement and adaptation to environments. Such mixed-method investigations will strengthen the empirical foundation of the integrated framework, support theory refinement, and guide practitioners in tailoring strategic decisionmaking tools to complex, dynamic settings. Together, $these \quad future \quad directions \quad promise \quad to \quad advance \quad both \quad \ \ [14]Liu,\ Z.,\ Zheng,\ R.,\ Qiu,\ Z.,\ \&\ Jiang,\ X.\ (2022).\ Stakeholders\ and \ All \ All$ academic rigor and practical relevance in sustainability and strategic management research.

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