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# The Role of Financial Accounting in Measuring the Impact of ESG **Disclosure on Firm Value**

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### **Abstract**

This study examines the mediating role of financial accounting in the relationship between ESG disclosure and firm value. The sample consists of 82 firm-year observations from non-financial companies listed on the Indonesia Stock Exchange (IDX) between 2018 and 2023. Firm value is measured using Tobin's Q, Price-to-Book Value, and Market-to-Book Ratio. ESG disclosure is assessed using Bloomberg/Refinitiv ESG scores and Global Reporting Initiative (GRI)-based content analysis. Financial accounting is proxied by earnings quality, value relevance, timeliness, and conservatism. Data were analyzed using Partial Least Squares Structural Equation Modeling (PLS-SEM) with SmartPLS software. The results show that ESG disclosure has a significant positive effect on both financial accounting and firm value. Financial accounting also has a significant positive effect on firm value and mediates the ESG-firm value relationship. The findings confirm that ESG disclosure contributes to firm valuation when accompanied by credible financial accounting practices. This study contributes to the sustainable finance literature by identifying the role of financial accounting as a mediator and provides practical insights for managers and regulators to strengthen integrated reporting practices.

Keywords: Firm Value, ESG Disclosure, Financial Accounting, PLS-SEM, Integrated Reporting.

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### 1. Introduction

perception of a company's performance, risk profile, Authority (Otoritas Jasa Keuangan OJK) mandates and long-term prospects. In capital markets, it sustainability embodies the discounted value of expected future cash underscoring ESG disclosure as a matter of strategic flows as filtered through investor beliefs about growth, compliance and competitive positioning in the capital risk, and governance quality. Traditionally, firm value market ecosystem. For Indonesian firms especially nonhas been gauged using market-based indicators such as financial issuers that interact directly or indirectly with Tobin's Q, Price-to-Book Value (PBV), and the environmental and social externalities ESG disclosure Market-to-Book Ratio [1] [2]. These metrics is increasingly intertwined with access to capital, cost operationalize how markets capitalize a company's of capital, and valuation multiples. assets and equity base: Tobin's Q approximates the ratio of market value to replacement cost of assets; PBV and the Market-to-Book Ratio convey how far market expectations deviate from accounting book which themselves embed managerial accounting choices. Because they aggregate market participants' expectations, such indicators are sensitive not only to the firm's realized financial outcomes but also to signals about future strategic posture, risk management, and reputation.

of research and practice suggests that non-financial turn, influencing firm value [3] [20]. ESG disclosure specific (what, how much, and how credibly companies unconditional. communicate about sustainability activities and impacts) has thus become an important dimension of corporate reporting globally as investors, regulators, and a broader set of stakeholders demand greater

transparency and decision-useful sustainability information [4] [8]. In Indonesia, this momentum is Firm value is a critical indicator reflecting investor reinforced institutionally: the Financial Services reporting for listed

Nevertheless, prior empirical evidence remains mixed. A segment of the literature documents a positive association between ESG disclosure or performance and firm value, arguing that transparency and strong sustainability practices can reduce information asymmetry, enhance legitimacy, stabilize cash flows, and deepen investor trust [24] [25]. Conversely, other studies report insignificant or even negative effects, highlighting implementation costs, greenwashing concerns, measurement noise in ESG ratings, and the Over the past decade, a large and fast-growing stream possibility that sustainability investment may trade off with short-term financial performance in certain factors particularly Environmental, Social, and contexts [4] [19]. These inconsistencies signal that the Governance (ESG) practices play an increasingly link between ESG disclosure and firm value may be significant role in shaping those expectations and, in contingent on intermediate mechanisms and firmconditions, rather than universal

> A particularly salient mechanism is financial accounting. High-quality financial reporting reliable, relevant, timely, and appropriately conservative can

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investors view ESG information through the lens of usefulness and comparability. financial statements, then the quality of those statements may be a key transmission channel through which ESG disclosure affects valuation. Put differently, This study adopts a quantitative, causal design using the capital market is more likely to reward ESG secondary data from companies' annual reports and information when it is embedded within a robust sustainability reports. The research object comprises financial reporting infrastructure that reduces noise, non-financial firms listed on the Indonesia Stock opportunism, and uncertainty around performance Exchange (IDX) during 2018-2023, while the broader measurement.

This study draws on stakeholder theory and legitimacy theory to structure this argument. Stakeholder theory posits that firms must address the needs and expectations of multiple stakeholder groups to ensure long-term sustainability and value creation; ESG disclosure serves as visible evidence of responsiveness and accountability to those stakeholders [10]. Legitimacy theory suggests that firms disclose ESG information in part to align with societal norms and secure a "license to operate." In this view, disclosure is a tool to maintain or restore social legitimacy which, when effective, can translate into reduced political and regulatory costs, improved stakeholder relations, and ultimately higher firm value [5] [11]. Financial accounting interacts with both theories by reinforcing the firm relative to its accounting base. Specifically, the credibility of the narrative firms present: it embeds Tobin's Q, Price-to-Book Value (PBV), and the performance indicators, and disciplines managerial while closely related, differ in sensitivity to accounting claims through recognition, measurement, assurance conventions that investors understand.

Against this conceptual backdrop, the present research focuses on non-financial firms listed on the Indonesia Stock Exchange (IDX) over 2018-2023. Indonesia is an instructive emerging-market setting with evolving sustainability regulations (including OJK mandates), varying ESG reporting maturity across industriese.g., "sensitive" sectors such as energy or materials ofte n face higher scrutiny [14], and a growing base of ESG Disclosure (ESG). ESG disclosure is assessed The primary objective is to test whether financial clarify a plausible pathway that reconciles mixed prior due to scope and methodology [4] [12]. For the PLSquality financial reporting.

The study's contributions are twofold. Theoretically, it extends the ESG value literature in emerging markets by articulating and testing a mediation model rooted in stakeholder and legitimacy logics, augmented by capital-market consequences of financial reporting [8], Financial ESG and financial accounting are aligned can enhance properties:

enhance the credibility and interpretability of ESG with financial impacts. For regulators, it implies disclosure, thereby strengthening investor trust and the harmonizing sustainability disclosure standards with capital market's processing of sustainability signals. If financial accounting frameworks to improve decision

# 2. Research Design

population includes all non-financial listed issuers. The sample was selected using purposive sampling with explicit criteria: (i) firms consistently listed throughout the observation period; (ii) firms that published annual and/or sustainability reports containing information; and (iii) firms with complete financial data required to compute firm value and financial accounting proxies. Applying these criteria yielded 82 firm-year observations that met the inclusion thresholds and were retained for analysis.

Constructs and Measures. The study employs three main latent constructs, each measured reflectively with multiple indicators commonly used in the literature: Firm Value (FV). Firm value is proxied by marketbased indicators that capture how capital markets price within formal reporting systems, aligns Market-to-Book Ratio are used [1] [2]. These measures, and choices and market conditions. Tobin's O emphasizes the relationship between market capitalization and the replacement cost (or book proxy) of assets, often interpreted as a forward-looking growth and intangible capital premium. PBV and Market-to-Book provide complementary lenses on valuation relative to book equity. The indicators are standardized comparability and specified as reflective indicators of a firm-value latent variable.

institutional investors attentive to sustainability risks. using either Bloomberg/Refinitiv ESG scores or a Global Reporting Initiative (GRI)-based content accounting mediates the effect of ESG disclosure on analysis score, depending on data availability [12], firm value. By explicitly modeling financial accounting [22]. Both sources aim to quantify the breadth and quality as a mediating construct, the study aims to quality of ESG disclosure, though ratings can diverge findings namely, that ESG disclosure contributes to SEM specification, three indicators (ESG1-ESG3) firm value more strongly when paired with higher- represent the ESG disclosure construct, capturing consistency across data sources or content dimensions (e.g., environmental, social, governance sub-scores or GRI coverage clusters). Scores are suitably scaled so higher values indicate more extensive or higher-quality disclosure.

Accounting Quality (FA). [9]. Practically, it offers managers and regulators accounting quality is conceptualized as the decisionevidence that strengthening integrated reporting where usefulness of financial reporting along four canonical earnings quality, value the credibility of sustainability communication and, in timeliness, and conservatism. Earnings quality reflects turn, valuation. For managers, this means building the extent to which accruals map onto cash flows; value reporting processes that connect sustainability KPIs relevance indicates the association between accounting promptly accounting numbers reflect underlying paths [13]. The mediation test focuses on the economic events; conservatism captures asymmetric significance and magnitude of the indirect effect (ESG FA4) operationalize these facets in standardized form full given the significance of the direct path. so that higher scores denote higher quality across each dimension. While each property can be estimated via distinct models (e.g., accruals quality models for earnings quality; returns-earnings association for timeliness; asymmetric timeliness/baseline conservatism), this study follows a measurement approach suited for latent variable modeling in PLS-SEM, treating FA as a reflective construct summarized by these indicators.

(Bloomberg/Refinitiv) when available; in parallel, GRI- considered to ensure that findings are not artifacts of based content analysis is performed where necessary to measurement decisions. However, given the study's ensure coverage. The content analysis maps report focus on mediation and the defined sample, the primary items to GRI themes and indicators, applying a emphasis remains on the hypothesized pathway rather consistent coding protocol to yield a numeric disclosure than exhaustive robustness exploration. score. Financial accounting quality indicators are computed from annual report data using established transformations (e.g., scaling by total assets or shares outstanding as appropriate) to ensure comparability across firms and time. Firm value measures are computed using year-end market and book values per standard definitions.

Equation Modeling (PLS-SEM) is used, implemented transparency and comparability with prior work in with SmartPLS 4. PLS-SEM is appropriate for this ESG-accounting research [22] [27]. study for several reasons. First, it supports predictionoriented modeling with complex constructs measured by multiple indicators, which aligns with the study's Measurement model on the Table 1. interest in mediating mechanisms and predictive relevance. Second, it places minimal distributional assumptions on data, which is useful given the smallto-moderate sample size (82 firm-years) and the potential non-normality of market-based variables. Third, PLS-SEM provides robust tools for evaluating both the measurement model (outer model) and the structural model (inner model), including mediation via bootstrapping [13].

Evaluation Criteria. The measurement model is evaluated for convergent validity and discriminant structural model is then evaluated using R2 (earnings is employed to generate t-values, p-values, and bias- reflect a common latent valuation dimension. Next

numbers and market values; timeliness measures how corrected confidence intervals for direct and indirect recognition of losses over gains. Four indicators (FA1-  $\rightarrow$  FA  $\rightarrow$  FV), and on whether mediation is partial or

Assumptions and Robustness Considerations. While the PLS-SEM framework is well suited to the study's aims, several standard assumptions are acknowledged: (i) indicators are reflective and expected to covary due to the latent construct; (ii) collinearity among exogenous constructs is within acceptable limits (assessed via VIF in practice); (iii) relationships are linear at the latent level; and (iv) missing data are minimal or handled appropriately. Where feasible, sensitivity checks (e.g., Data and Coding Procedures, ESG disclosure scores are comparing results across ESG data sources, testing from standardized provider datasets alternative scaling choices for indicators) are

Ethical and Reporting Considerations. The study uses publicly available secondary data (annual and sustainability reports, market data). Measurement and coding procedures are documented to ensure replicability, particularly for the GRI-based content analysis. Statistical decisions (indicator retention, transformation, and bootstrapping parameters) follow Analytical Method. Partial Least Squares Structural established PLS-SEM guidelines [13] to maintain

# 3. Results and Discussion

Table 1. Outer Loadings

Construct	Indicator	Loading	Result
ESG Disclosure	ESG1	0.812	Valid
	ESG2	0.845	Valid
	ESG3	0.879	Valid
Financial Accounting	FA1	0.801	Valid
	FA2	0.826	Valid
	FA3	0.794	Valid
	FA4	0.768	Valid
Firm Value	FV1	0.832	Valid
	FV2	0.814	Valid
	FV3	0.799	Valid

validity, alongside internal consistency reliability. All indicators exceed the 0.70 benchmark, confirming Convergent validity is assessed via indicator outer convergent validity. Practically, these loadings indicate loadings (target >0.70) and Average Variance Extracted that each indicator contributes substantively to its (AVE >0.50). Reliability is assessed using Cronbach's respective latent variable. For ESG disclosure, loadings Alpha and Composite Reliability (CR), with thresholds between 0.812 and 0.879 suggest that different sources >0.70. Discriminant validity is examined using the or sub-dimensions (e.g., environmental, social, HTMT criterion, targeting values below 0.85 to governance) cohere into a single disclosure construct. indicate adequate separation among constructs. The For financial accounting quality, the four indicators quality, value relevance, (explanatory power of endogenous constructs), f2 conservatism) load strongly, indicating that they share (effect sizes of exogenous constructs on endogenous common variance attributable to an underlying quality constructs), and Q2 (predictive relevance based on construct while preserving unique variance related to blindfolding). To test hypotheses and the mediating each property. For firm value, the three valuation effect, bootstrapping with 5,000 resamples at  $\alpha = 0.05$  indicators (Tobin's Q, PBV, Market-to-Book) likewise Reliability and validity on Table 2.

Table 2. Reliability and Validity

Construct	Cronbach's Alpha	CR	AVE	Result
ESG	0.841	0.897	0.743	Reliable
Disclosure				& Valid
Financial	0.872	0.908	0.668	Reliable
Accounting				& Valid

Cronbach's Alpha and Composite Reliability (CR) for both constructs exceed 0.70, signaling strong internal consistency. AVE values exceed 0.50 (0.743 for ESG and 0.668 for FA), indicating that each latent variable explains more than half of the variance in its indicators another hallmark of convergent validity. Although not Finally, the indirect effect of ESG disclosure on firm tabulated here, discriminant validity (assessed via value via financial accounting is significant and HTMT) was within acceptable thresholds (HTMT< positive ( $\beta = 0.168$ , p = 0.003). This mediation result 0.85), supporting the distinctness of ESG disclosure, implies that a meaningful portion of ESG's valuation financial accounting quality, and firm value constructs. impact operates through the enhancement of financial Together, these results confirm that the measurement reporting quality. In other words, ESG disclosure not model is sound and suitable for testing the structural only signals sustainability but also concurrently relationships. Structural model on the Table 3.

Table 3. Path Coefficients

Path	В	T- Value	P- Value	Result
$ESG \rightarrow FV$	0.312	3.412	0.001	Supported
$ESG \rightarrow FA$	0.431	5.127	0.000	Supported
$FA \rightarrow FV$	0.389	4.082	0.000	Supported
$ESG \rightarrow FA \rightarrow$	0.168	2.945	0.003	Mediation
FV				

The R<sup>2</sup> for FA is 0.372 (moderate), and for FV is 0.465 (moderate-to-strong). Q<sup>2</sup> values confirmed predictive relevance. The structural model results support all hypothesized relationships. First, ESG disclosure directly and positively affects firm value ( $\beta = 0.312$ , p = 0.001). This coefficient indicates that, holding other modeled effects constant, a one-standard-deviation increase in ESG disclosure is associated with roughly a 0.31 standard-deviation increase in the latent firm value construct. This is consistent with the idea that transparent sustainability practices can reduce information asymmetry, improve reputational capital, and signal superior management quality channels through which investors may justify higher valuation multiples [21] [23].

Second, ESG disclosure positively affects financial accounting quality ( $\beta = 0.431$ , p < 0.001). This suggests that firms with more extensive or higher-quality ESG disclosure also tend to exhibit higher-quality financial reporting more reliable earnings, more value-relevant accounting numbers, greater timeliness, and appropriate conservatism. This finding aligns with arguments that sustainability practices and integrated reporting foster stronger internal controls, better data governance, and clearer performance measurement frameworks, which "spill over" into financial reporting quality [2] [27]. In practice, companies that invest in sustainability reporting infrastructure (metrics definitions, audit trails, assurance, cross-functional finance–ESG collaboration) are likely to improve the discipline and credibility of financial reporting processes as well.

firm value ( $\beta = 0.389, p < 0.001$ ). This path underscores the capital-market benefits of high-quality financial reporting. When earnings map more closely to cash \_ flows (high earnings quality), when accounting numbers are more strongly associated with market values (value relevance), when recognition is timely and sufficiently conservative, investors face lower estimation risk and are more willing to pay higher prices relative to book values. In an emerging market context, where information frictions can be more acute, the incremental value of reliable financial statements may be especially pronounced.

strengthens the financial reporting environment; investors appear to reward this combination by capitalizing expected cash flows more favorably. Because the direct effect (ESG→FV) remains significant alongside the indirect effect (ESG  $\rightarrow$  FA  $\rightarrow$ FV), the pattern is consistent with partial mediation: ESG disclosure affects firm value both directly (e.g., via legitimacy, stakeholder relations, and risk management channels) and indirectly through its positive association with financial accounting quality.

Discussion in Light of Prior Literature. The positive  $ESG \rightarrow FV$  relationship corroborates findings that ESG performance or disclosure can enhance value by lowering the cost of capital, mitigating downside risk, and expanding the investor base [6] [17] [18]. It also with stakeholder theory's assertion responsiveness to stakeholder concerns builds durable competitive advantage [10]. The significance of ESG  $\rightarrow$  FA and FA  $\rightarrow$  FV extends this narrative: sustainability practices encourage better data collection, internal controls, and governance, which in turn improve financial reporting properties; investors perceive and price these properties favorably. The documented mediation suggests that part of "what makes ESG pay" is its institutionalization within the firm's reporting architecture, not merely the volume of disclosure. This aligns with legitimacy theory: embedding ESG into formal, auditable systems enhances legitimacy by making claims verifiable and comparable, which markets reward [5] [11].

These results also help reconcile mixed evidence in the literature. Where studies find null or negative ESGvalue relations, one possibility is that ESG efforts are decoupled from financial accounting infrastructure, creating noise and skepticism among investors [7] [19]. ESG messaging without commensurate financial reporting discipline may be discounted as boilerplate or greenwashing, especially if disclosure lacks specificity, assurance, or linkage to financial outcomes. Conversely, when ESG is integrated into the reporting Third, financial accounting quality positively affects system (linking sustainability KPIs to cash-flow drivers, implementing materiality assessments, ensuring external assurance), investors are better able to incorporate ESG information into valuation models-raising the likelihood of a positive market response [26].

Contextual Nuances for Indonesia and Emerging Markets. In Indonesia's regulatory context, OJK's sustainability reporting mandate creates a floor for disclosure while leaving room for variation in quality integration depth. Industries with higher environmental and social externalities (sensitive industries) often develop stronger ESG processes and disclosures under stakeholder and regulatory pressure [14] [15]; in such settings, the mediating role of financial accounting may be particularly salient, as the credibility of ESG claims is under sustained scrutiny. At the same time, emerging-market issuers can face constraints in reporting capabilities and assurance markets, making the build-out of ESG-financial integration a gradual process. The positive ESG  $\rightarrow$  FA coefficient indicates that, within the Indonesian sample, firms investing in ESG disclosure tend, on average, to improve accounting quality along key dimensions-a promising signal for regulators and investors [16].

#### 4. Conclusion

This study concludes that ESG disclosure positively affects firm value directly and indirectly through financial accounting. ESG disclosure improves financial accounting quality, while financial accounting enhances firm value. Thus, financial accounting mediates the ESG-firm value relationship, serving as a key mechanism to translate sustainability into economic value. The study contributes to theory by expanding stakeholder and legitimacy theories in the ESG value nexus and to practice by recommending that managers integrate ESG into financial reporting to market credibility. Regulators harmonize sustainability disclosure standards with financial accounting frameworks. Limitations include the small sample size and reliance on secondary data. Future studies could examine moderating factors or conduct cross-country analyses.

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