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Determinants of Strategic Management Accounting Information Disclosure under a Multi-Theoretical Framework: Evidence of Listed Firms on Ghana Stock Exchange

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Abstract:

Sharing information is vital for decision-making as it helps mitigate risks by providing a wealth of relevant information. When the perceived risk is low, it ultimately reduces the costs associated with making a decision. Strategic Management Accounting Information is an important resource for decision-making. This study sought to identify the determinants of strategic management accounting information disclosure (SMAID) from multiple perspectives. The study used a non-experimental, quantitative correlational design to analyze 35 out of 36 firms listed on the Ghana Stock Exchange for a period between 2010 and 2019. The study employed a linear dynamic panel data model with a one-step system GMM. The model included lagged values of the dependent variable and accounted for unobserved panel-level effects. It was discovered that Board subcommittees have non-linear relationships with SMAID. The previous year's subcommittee negatively impacts SMAID, while the current year's has a positive influence. Past disclosures of strategic management and competitor accounting information have a positive impact on current SMAID. Past customer accounting information disclosures also positively influenced the current SMAID. The study reveals that past disclosures of strategic costing information positively and statistically affect current aggregate SMAID. It is recommended that firms establish effective board sub-committees that can provide oversight and guidance to the management team. Policymakers should consider enforcing the presence of such sub-committees to ensure high-quality and sufficient disclosure of SMAID. Maintaining a high level of SMAID from the previous year can positively impact the current year's SMAID, enabling firms to make better-informed decisions and enhance overall performance.

Keywords: Strategic management accounting, multi-theoretical framework, linear dynamic panel model, competitor accounting information, strategic costing, customer accounting

1. Introduction

In today's competitive business environment, accounting information plays a crucial role in corporate management. Firms that employ effective strategic management accounting (SMA) practices are more likely to excel in business operations, enhance corporate competitiveness, and achieve better overall performance, as highlighted by Oboh and Ajibolade (2017). Furthermore, Daniel et al. (2020) emphasise that SMA is a critical tool for driving long-term organizational performance.

Strategic management accounting, as described by Roslender and Hart (2003), is a comprehensive approach that combines elements of management accounting and marketing management within a strategic management framework. During the 1980s, the inadequacy of traditional management accounting was recognized by accounting professionals and academics, as noted by Shah, Malik, and Malik (2011). Researchers such as Noordin et al. (2014) found that the information derived from traditional accounting systems was often excessive, aggregated, and distorted, making it inadequate for strategic planning and decision-making. Baines and Langfield-Smith (2003) argued that management accounting information derived from financial accounting systems was limited in relevance, accuracy, and completeness. Cooper (1996) and Parker (2002) observed that management accounting had limited integration with strategic management practices. Ahlstrom and Karlsson (1996) further contended that management accounting had not effectively adapted to leverage advancements in management technologies.

In the current competitive business environment with shorter product life cycles, there is a growing demand for management accounting to adopt a strategic approach. Scholars such as Horngren et al. (2013) and Noordin et al. (2009) emphasize the need for management accounting to align with strategic objectives. Additionally, advancements in technology and the production of diverse products by firms call for improved cost and management control systems, as highlighted by Chai-Amonphaisal and Ussahawanitchakit (2010). Despite the attention given to Strategic Management Accounting (SMA) since 1981, there is still no consensus on its exact definition and the specific techniques that fall under its scope. Different authors have proposed various techniques within the 'SMA toolbox,' leading to ongoing debates.

Studies by Cinquini and Tenucci (2010) and Guilding, Cravens, and Tayles (2000) have found that the use of SMA is still limited and in the developmental stage. Therefore, there is a continuous need for research to explore the different SMA techniques and their relevance in generating information for managerial decision-making.

SMA emerged as a response to the limitations of traditional accounting methods during a time of rapid technological advancements, according to Johnson and Kaplan (1987) and Ogungbade and Oyerogba (2020). Johnson and Kaplan (1987) argue that increased competition and advancements in manufacturing technology have made traditional management accounting information obsolete in the modern business environment. Consequently, developing more advanced management accounting approaches, such as SMA, became necessary. Ogungbade and Oyerogba (2020) highlight that in the early stages of its development, accounting was primarily perceived as a means of cost determination in corporate organizations. However, since the mid-twentieth century, there has been a shift in emphasis within management accounting towards providing information for management planning and control purposes. New management accounting techniques, such as activity-based costing and the balanced scorecard, are more adaptive and sophisticated than traditional techniques, which have become obsolete. By the 1980s, there was widespread agreement that conventional management accounting procedures were no longer fit for purpose and were no longer adequate for satisfying the objectives of management decision-making (Kaplan, 1984). Management accounting procedures focus on the internal organizational environment and short-term business objectives, neglecting the external environment and long-term goals.

Simmonds (1981) introduced strategic management accounting amid the debate over the relevance of traditional accounting in the ever-changing and competitive business environment, with the belief that SMA could help resolve issues related to ineffective conventional management accounting techniques in the current competitive and manufacturing environment. While SMA had gained popularity by the late 1980s, researchers, professionals, and specialists disagreed regarding its composition. While some contended that SMA had received insufficient implementation and proof (Dmitrovic-Saponja & Suliovic, 2017), others thought it was appropriate to address the challenges at hand. According to Zainuddin and Sulaiman (2016), the reason for this is that accountants at the time lacked the advanced management accounting abilities required to undertake sophisticated approaches, necessitating further training to enable crossfunctional involvement. SMA practices can be beneficial to investors, owners, and other stakeholders by providing the most suitable accounting information. The main aim of this study is to establish the determinants of strategic management accounting information disclosures (SMAID) of Ghana Stock Exchange-listed firms under a multi-theoretical framework underpinned by agency, signaling, stakeholder, and contingency theories. The study will examine the effect of board characteristics, auditor characteristics, corporate ownership characteristics, past values of strategic corporate information disclosure, past and present values of corporate governance, past strategic management accounting information disclosure, corporate social responsibility and financial performance, firm-specific variables, and macroeconomic indicators on SMAID of Ghana Stock Exchange firms.

2. Literature Review and Hypotheses Development

The phrase *Strategic Management Accounting* (SMA) was coined by Simmonds (1981), who defined it as the provision and analysis of management accounting data about a business and its competitors for developing and monitoring business strategy. Bromwich (1990) further defined SMA as the provision and analysis of financial information on the company's product markets, competitors' costs, and cost structure, and the monitoring of strategies of the enterprise and its competitors over some time. Langfield (2008) also said SMA is an approach that entails taking a strategic orientation to the generation, interpretation, and analysis of management accounting information and competitors' activities to provide key insights for analytical purposes. There seems to be no agreement as to the specific meaning of SMA, but all the definitions agree on the strategic approach of the subject. These definitions thus demonstrate clearly that the scope of traditional management accounting has been greatly extended (Adigbole, 2017).

For any management technique to be included in SMA, such a technique must have a strategic orientation, as strategy connotes a long-term future-oriented time frame and an externally focused perspective (Porter, 1996; Guilding et al., 2000). SMA techniques are procedures that demonstrate the following orientations: environmental (outward-looking), long-term (forward-looking), and/or market focus (Cadez & Guilding, 2008). The techniques that qualify as SMA given by previous scholars (e.g., Guilding et al., 2000; Cadex & Guilding, 2008; Fowzra, 2011) can be classified into five classes:

- Costing techniques,
- Planning, control, and performance measurement,
- Strategic decision-making,
- Competitor accounting,
- Customer accounting

The costing class includes activity-based, target, life-cycle, quality, and value-chain costing. The second SMA technique is the planning, control, and performance measurement class which has an external strategic orientation towards competitors containing this techniques-benchmarking (Cinquinni & Tenucci, 2007) and integrated performance measurement (Kaplan & Norton, 1992; Nixon & Burns, 2012). The third SMA dimension is the strategic decision-making class. This encompasses strategic costing (Shank & Govindarajan, 1992), strategic pricing (Alnawaiseh, 2013; Novianty, 2015) and brand valuation (budgeting and monitoring) (Alnawaiseh, 2013). The fourth SMA dimension is competitor accounting. This comprises competitor cost assessment (Ward, 1992), competitor performance appraisal based on published financial statements and competitive position monitoring (Ciquini & Tenucci, 2010). The last SMA dimension, namely customer accounting, consists of customer profitability analysis (Zeithaml, 2000), lifetime customer value and

profitability analysis (Cadez & Guilding, 2008) and valuation of customers as assets (Cadez & Guilding, 2008; McManus, 2013).

Strategic Management Accounting Information Disclosure (SMAID) is the release of critical information that pertains to Cadez and Guilding's (2008) SMA dimensions, namely:

- Competitor accounting,
- Customer Accounting,
- Strategic costing,
- Strategic decision-making and
- Strategic planning, control & performance measurement

In the context of this study, Competitor accounting information disclosure alludes to the provision and analysis of management accounting information about each of a company's competitors associated with the competitor's resources, objectives, and competitive stance for use in developing and monitoring business strategy (Fong & Wong, 2012). Competitor accounting information disclosure involves releasing information on competitive position monitoring, competitor cost assessment and performance appraisal. Customer accounting information disclosure in this study is defined as the analysis directed to appraise profit, sales, or costs deriving from customers or customer segments (Cinquini & Tenucci, 2010). It encapsulates the release of information regarding customer profitability analysis, lifetime customer profitability analysis, and valuation. Strategic costing is defined as the use of data based on strategic and marketing information to develop and identify superior strategies that will sustain a competitive advantage (Guilding et al., 2000). In the context of this study, strategic costing information disclosure denotes the release of strategic costing data by firms in their annual reports. Strategic costing encapsulates five principal areas, namely: attribute costing, life-cycle costing, quality costing, target costing and value-chain costing. Strategic decision-making is the process of understanding the interaction of decisions and their impact on an organization to gain an advantage. It includes brand valuation/value monitoring, strategic pricing, and strategic costing. Strategic planning, control & performance measurement is the process of managing strategic plans, controlling implementation, and evaluating performance using metrics and benchmarks. In the context of this study, strategic planning, control, and performance measurement information disclosure refer to the release of data about the company's strategic plans, control mechanisms, and performance measurement metrics by listed firms in their annual reports. Strategic planning, control, and performance measurement involve two things:

- Benchmarking and
- Integrated performance measurement systems

Four theories (Agency, Signaling, Stakeholder, and Contingency) are employed in explaining the determinants of strategic management accounting information disclosures of firms. Agency theory assumes that companies resort to disclosing extra information voluntarily to decrease the agency costs that arise from the contest between managers and shareholders (Alves, Rodrigues & Canadas, 2012; Zayoud, Al-Othman & Issa, 2011). As indicated by the theoretical framework below in figure 1, the quality and quantity of strategic management accounting information disclosures of Ghana Stock Exchange-listed firms would be influenced by the extent to which the boards of directors of these firms want to minimize agency costs. According to the Signaling theory, businesses with high levels of voluntary disclosure want to reduce information asymmetries and communicate their quality and true worth by giving parties who lack knowledge additional information (Morris, 1987; Ross, 1977). According to the theoretical framework below, the desire of the boards of directors of Ghana Stock Exchange-listed companies to reduce information asymmetry will have an impact on the quantity and quality of strategic management accounting information disclosures. In order to gain social legitimacy, win societal acceptance, and establish their brands as good or responsible corporate citizens, companies, according to the Stakeholder theory, must satisfy the informational needs and interests of all stakeholders, not just shareholders (Abed, Roberts, and Hussainey, 2014) (Asamoah and colleagues, 2021). According to the theoretical framework in figure 1, the degree to which the boards of directors of Ghana Stock Exchange-listed companies want to inform their stakeholders, gain legitimacy, and give the impression that they are responsible corporate citizens in the eyes of society will affect the quality and quantity of strategic management accounting information disclosures. According to Morton and Hu (2008), the Contingency theory suggests that companies selectively reveal internal and external information that they consider vital for their organizational performance. The disclosure of strategic management accounting information by firms listed on the Ghana Stock Exchange would be influenced by the dynamics of internal and external information that companies believe has the most significant impact on their performance. The framework in figure 1 below demonstrates how the four theories determine various variables that influence SMAID.



Figure 1: Theoretical Categorization of SMAID Determinants Source: (Asiedu & Opoku 2022)

Agency theory influences Strategic Management Accounting and Auditor Characteristics dimensions to determine SMAID. Moreover, it can be noted that Auditor characteristics, Board characteristics, Ownership characteristics and Corporate Governance compliance disclosures are likely to be influenced by Stakeholder theory to affect SMAID. Empirically and theoretically, it also suggested, as indicated in the framework, that Signaling theory influences Ownership characteristics, Corporate Governance compliance disclosures, and corporate social & financial performance to determine SMAID. Finally, Firm-specific variables, Shareholder Rights Mission, Responsibility & Accountability of the Board, and Macroeconomic factors could be channels through which Contingency theory influences SMAID.

2.1. Effects of Board Characteristics on SMAID

The constellation of hypotheses here pertains to the effects of board characteristics on strategic management accounting information disclosure. It consists of the analysis of the effects of the board characteristics of CEO duality, independent non-executive directors (INEDs), board composition, Board Size, frequency of board meetings, board subcommittees, Audit Committee, Remuneration Committee, and board dividend payment decisions on strategic management accounting information disclosures.

Agency theory predicts that the separation of the position of Board Chairman from that of the Chief Executive Officer (CEO), the so-called concept of CEO duality, might help mitigate agency problems (Jensen & Meckling, 1976). This study conjectures that CEO duality exerts a positive influence on strategic management accounting disclosure.

Ha1: CEO Duality Exerts a Significant Positive Effect on Strategic Management).

Agency theory predicts that the presence of INEDs serves as an efficient mechanism for monitoring opportunistic managerial behaviors and mitigating agency costs (Jensen & Meckling, 1976; Asamoah, 2013). This study posits that Independent non-executive directors exert a significant positive/detrimental bearing on Strategic management accounting information disclosure:

 Ha2: Independent Non-Executive Directors Have a Significant Positive or Negative Effect on Strategic Management Accounting Information Disclosure.

The composition of the board is considered one of the essential mechanisms for mitigating the agency problem and minimizing information asymmetry between the principal and the agent (Jensen & Meckling, 1976; Asamoah, 2013). This study conjectures that board composition has a significant positive effect on Strategic Management Accounting Disclosure:

• Ha3: Board Composition has a Significant Positive Effect on Strategic Management Accounting Information Disclosure).

According to agency theory (Jensen & Meckling, 1976), board size is a key determinant in monitoring its activities and decision-making. It has been argued by Laksmana (2008) that a large board leads to a higher opportunity to have a diversity of expertise in areas such as financial reporting. This study postulates that board size exerts a significant positive effect on Strategic Management Accounting Information Disclosure:

Ha4: Board Size Has a Significant Positive Effect on Strategic Management Accounting Information Disclosure).

Ntim and Osei (2011) argue that the frequency of board meetings measures the intensity of a board's activities and the quality or effectiveness of its monitoring. From a positive theoretical perspective, a higher frequency of board

meetings can help improve the quality of managerial monitoring, which positively impacts corporate performance (Ntim & Osei, 2011). This study posits that the frequency of board meetings has a significant positive effect on strategic management accounting disclosure:

• Ha5: Frequency of Board Meetings Has a Positive Significant Effect on Strategic Management Accounting Information Disclosure.

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According to agency theory, the existence of a board sub-committee (e.g., an audit committee) can help firms to reduce agency conflicts. It is an important element for the board of directors to internally control decision-making and enhance the quality of information flow between owners and managers (Fama & Jensen, 1983; Arcay & Muiño, 2005). Empirically, Ho and Shun (2001), Barako et al. (2006), and Samaha et al. (2015) find that the presence of an audit committee has a positive impact on corporate disclosure behavior. This study conjectures that board sub-committees exert a significant positive effect on strategic management accounting disclosure:

• Ha6: Board Sub-Committee Exert a Significant Positive Effect on Strategic Management Accounting Information Disclosure.

According to agency theory, the existence of an audit committee can help firms to reduce agency conflicts. It is an important element for the board of directors to internally control decision-making and enhance the quality of information flow between owners and managers (Fama & Jensen, 1983; Arcay & Muiño, 2005). The study postulates that audit committees exert a significant positive effect on strategic management accounting disclosure:

Ha7: Audit Committee Has a Significant Positive Effect on Strategic Management Accounting Disclosure.

Agency theory argues that the presence of a remuneration committee may mitigate agency costs and monitor opportunistic managerial behavior concerning the utilization of shareholders' resources (Asamoah, 2013). Consequently, this study conjectures that remuneration committees exert a significant positive or negative effect on strategic management accounting disclosure:

• Ha8: Remuneration Committee Has a Significant Positive or Negative Effect on Strategic Management Accounting Information Disclosure.

The effect of Dividends Payment on strategic management accounting information disclosure has also been noted by (Asamoah, 2013; Jensen & Meckling, 1976; Odeleye, 2017; Jiraporn, Kim & Kim, 2011). Based on the earlier literature, the study formulates the hypothesis as:

• Ha9: Dividends Payment has a Significant Positive Effect on Strategic Management Accounting Information Disclosure.

2.2. Effect of Auditor Characteristics on SMAID

The hypothesis here concerns the effect of auditor characteristics on SMAID. This is to ascertain the effect of the auditor characteristic variable (audit firm size) on MAID.

Audit firm size influences SMAID according to some previous empirical studies. Many previous empirical studies (e.g., Sundarasen et al., 2016; Adelopo, 2011; Agca & Önder, 2007; Barako, 2007; El-Deeb & Elsharkawy, 2019) report a substantial positive influence of audit firm size on SMAID. The study therefore formulates hypothesis as:

Hb: Audit Firm Size Has a Significant Positive Effect on Strategic Management Accounting Information Disclosure.

2.3. Effect of Corporate Ownership Characteristics

The collection of hypotheses here relates to the effect of corporate ownership characteristics, namely: institutional ownership, block ownership, government ownership, and director ownership, on SMAID.

The maiden hypothesis focuses on the effect of Institutional Ownership on strategic management accounting information disclosure. Based on literature (Smith, 1996; Strickland et al., 1996; Wahal, 1996; Boone & White, 2014), the first hypothesis related is formulated as:

• Hc1: Institutional Ownership has a Significant Negative Effect on Strategic Management Accounting Information Disclosure.

The second hypothesis under ownership characteristics addresses the effect of Block Ownership on strategic management accounting information disclosure. The results of the previous studies (e.g., Schadewitz & Blevins, 1998; Mitchell, Chia & Loh, 1995; McKinnon & Dalimunthe, 1993; Marston & Polei, 2004; Samaha & Dahawy, 2010, 2011) portray divers' effects on SMAID. Based on the above, the hypothesis is formulated as:

• Hc2: Block Ownership has a Significant Positive or Negative Effect on Strategic Management Accounting Information Disclosure.

Since many of the previous studies reported a significant positive connection between government ownership and SMAID, the third hypothesis is formulated as:

• Hc3: Government Ownership has a Positive Significant Effect on Strategic Management Accounting Information Disclosure.

The last hypothesis here focuses on the effect of director ownership on SMAID. The previous works (Eng & Mak, 2003; Jensen & Meckling, 1976; Wang & Hussainey, 2013) have indicated negative and positive effects on different occasions. The hypothesis is, therefore, formulated as:

• Hc4: Director Ownership has a Significant Positive or Negative Effect on Strategic Management Accounting Information Disclosure.

2.4. Effect of Past Values of Aggregate Strategic Corporate Information Disclosures (SCIDs) on SMAID

The hypothesis here concerns the effect of past values of aggregate strategic corporate information disclosures (SCID) on SMAID. The hypothesis postulated here-under, establishes the stimuli of past and present values of aggregate SCID on present SMAID. Based on the lack of previous empirical studies, a two-tailed hypothesis is formulated as:

• Hd: Past and present Aggregate SCID Exerts a Significant Positive or Negative Effect on Present Aggregate Strategic Management Accounting Information Disclosure.

2.5. Stimuli of Past and Present Values of Aggregate Corporate Governance Information Disclosure on SMAID

This is to report the stimuli of past and present values of aggregate corporate governance information disclosure on strategic management accounting information disclosure (SMAID). Concerning the link between these variables, the empirical literature is scarce. As a corollary, a two-tailed hypothesis is formulated as:

• He: Past and present Aggregate Corporate Governance Information Disclosure Exerts a Significant Positive or Negative Effect on Present Aggregate Strategic Management Accounting Information Disclosure.

2.6. The Stimuli of Past Aggregate SMAID on Present Aggregate SMAID

The first sub-hypothesis addresses the effect of past competitor accounting information disclosures on current aggregate strategic management accounting information disclosure. Based on the dearth of literature establishing the link between past competitor accounting information disclosures and current aggregate SMAID, the first two-tailed hypothesis is formulated as:

• Hf1: Past Competitor Accounting Information Disclosure Exerts a Significant Positive or Negative Effect on Current Strategic Management Accounting Information Disclosure.

The second sub-hypothesis addresses the effect of past customer accounting information disclosures on current aggregate SMAID. Based on the dearth of literature establishing the link between past customer accounting information disclosures and current aggregate SMAID, a two-tailed hypothesis is formulated as:

• H1f2: Past Customer Accounting Information Disclosure Exerts a Significant Positive or Negative Effect on Current Strategic Management Accounting Information Disclosure.

The third sub-hypothesis addresses the effect of past strategic decision Information Disclosure on SMAID. Based on the drought of literature that establishes the link between past strategic decision-making information disclosure and current aggregate on SMAID, a two-tailed hypothesis is formulated as:

• Hf3: Past Strategic Decision Information Disclosure Exerts a Significant Positive or Negative Effect on Current Strategic Management Accounting Information Disclosure.

The fourth sub-hypothesis addresses the effect of past strategic costing information disclosure on strategic management accounting information disclosure. Based on the dearth in the literature that establishes the link between past strategic costing information disclosures and current aggregate SMAID, a two-tailed hypothesis is formulated as:

• Hf4: Past Strategic Costing Information Disclosure Exerts a Significant Positive or Negative Effect on Current Strategic Management Accounting Information Disclosure

The fifth sub-hypothesis focuses on the effect of past strategic planning, control, and performance measurement information disclosures on SMAID. Based on the paucity of literature on the liaison between past strategic planning, control, and performance measurement information disclosures and current SMAID, a two-tailed hypothesis is formulated as:

• Hf5: Past Strategic Planning, Control, and Performance Measurement Information Disclosures Exert a Significant Positive or Negative Effect on Current Strategic Management Accounting Information Disclosure.

2.7. Consequences of Corporate Social Performance and the Financial Performance Indicators of ROA and ROE on SMAID

The first sub-hypothesis pertains to the effect of corporate social performance on SMAID. Based on the erstwhile literature (Jensen & Meckling, 1976; Asamoah, 2013; Asamoah et al., 2021; Branco & Rodrigues, 2008; Khan et al., 2013), the first sub-hypothesis is formulated as:

• Hg1: Corporate Social Performance Has a Significant Positive Effect on Strategic Management Accounting Information Disclosure.

The second sub-hypothesis pertains to the effect of ROA on strategic management accounting information disclosure. Based on the previous theoretical literature (Abed et al., 2014; Alves et al., 2012; Zayoud et al., 2011; Morris, 1987; Ross, 1977; Morton & Hu, 2008), the hypothesis formulated as:

Hg2: ROA Has a Significant Positive Effect on Strategic Management Accounting Information Disclosure.

The final sub-hypothesis addresses the effect of ROE on SMAID. Based on the previous theoretical argument (Abed et al., 2014; Alves et al., 2012; Zayoud et al., 2011; Morris, 1987; Ross, 1977; Morton & Hu, 2008), the third hypothesis is formulated as:

• Hg3: ROE Has a Significant Positive Effect on Strategic Management Accounting Information Disclosure.

2.8. The Impressions of the Firm-Specific Variables on SMAID

There are six hypotheses postulated here-under relating to finding out the impressions of the firm-specific variables of firm size, assets-in-place, leverage, liquidity, sales growth, and tax payment decisions on SMAID.

The first hypothesis focuses on the effect of firm size on SMAID. Based on the above (Abed et al., 2014; Karim et al., 2013; Uyar et al., 2013; Thinh, 2021), the first sub-hypothesis is stated as:

• Hh1: Firm Size Has a Significant Positive Effect on Strategic Management Accounting Disclosure.

The second hypothesis focuses on the effect of assets-in-place on SMAID. Because of the previous mixed results in that some studies argued for a positive link (Morris, 1987; Ross, 1977), whiles others reported a negative connection (Feyitimi, 2014) between assets-in-place and voluntary disclosures such as SMAID, a two-tailed second hypothesis is formulated as:

• Hh2: Assets-In-Place Has a Significant Negative Effect on Strategic Management Accounting Information Disclosure.

The third hypothesis focuses on the effect of Leverage on SMAID. The effect of leverage on SMAID is postulated as a two-tailed hypothesis in accordance with previous empirical studies viz (Jensen & Meckling, 1976; Zarzeski, 1996; Abd-Elsalam & Weetman, 2003; Wang et al., 2008; Allegrini & Greco, 2011) as:

• Hh3: Leverage Exerts a Significant Positive or Negative Effect on Strategic Management Accounting Information Disclosure.

The fourth hypothesis focuses on the effect of Liquidity on SMAID. Based on the previous arguments (Jensen & Meckling, 1976; Asamoah, 2013; Inchausti, 1997) and empirical works (Barako et al., 2006), a two-tailed hypothesis is formulated as:

• Hh4: Liquidity has a Significant Positive or Negative Correlation with Strategic Management Accounting Disclosure.

The fifth hypothesis focuses on the effect of Sales Growth on SMAID. Empirically, however, the relationship between sales growth and SMAID has not been studied much in the literature. Because of that, a two-tailed hypothesis is conjectured as:

• *Hh5: Sales Growth Exerts Significant Positive or Negative Effects on Strategic Management Accounting Information Disclosure.*

The last hypothesis focuses on the effect of Tax Payment on SMAID. Empirically, however, there is a paucity of literature on the effects of tax payment on SMAID. A two-tailed hypothesis is postulated as:

• Hh6 Tax Payment Exerts a Significant Positive or Negative Effect on Strategic Management Accounting Information Disclosure.

2.9. Impacts of External Macroeconomic Dynamics on SMAID

The group of hypotheses here relates to the effect of specific impacts of external macroeconomic dynamics on strategic management accounting information disclosure. There are four hypotheses postulated here-under, all of which relate to establishing the specific impacts of external macroeconomic dynamics.

The first hypothesis pertains to the effect of Inflation Rates on SMAID. Under contingency, signaling, and stakeholder theories, inflation rates are expected to induce listed firms to disclose more strategic management accounting information. However, there is a dearth of literature on the impact of inflation rates on SMAID. Consequently, a two-tailed hypothesis is formulated as:

• Hi1: Inflation Rates Exert a Significant Positive or Negative Effect on Strategic Management Accounting Information Disclosure.

The second hypothesis pertains to the effect of Interest Rates on SMAID. Empirically, however, there is no prior literature that has established a link between interest rates and SMAID. Consequently, it is not far-fetched to postulate a two-tailed hypothesis on the effect of interest rates on SMAID, conjectured as:

• Hi2: Interest Rate Exerts Significant Positive or Negative Effects on Strategic Management Accounting Information Disclosure.

The third pertains to the effect of Money Supply on SMAID. On the empirical side, there is a meager body of literature that establishes the effect of money supply on SMAID. Consequently, a two-tailed hypothesis was formulated as:

• Hi3: Money Supply Exerts a Significant Positive or Negative Effect on Strategic Management Accounting Information Disclosure.

The fourth hypothesis pertains to the effect of GDP on SMAID. Empirically speaking, the effect that gross domestic product (GDP) has on SMAID is scanty and not readily available in the literature. Based on the above, a two-tailed hypothesis was formulated as:

• Hi4: GDP Exerts a Significant Positive or Negative Effect on Strategic Management Accounting Information Disclosure.

3. Data and Methods

3.1. Population and Sample

The target population of the study comprised all 36 firms listed on the Ghana Stock Exchange (GSE) at the time this study was conducted. The sample selected for the analysis comprised thirty-five (35) (see Table 1) of the 36 listed Firms, representing 97.22% of companies on the Ghana Stock Exchange (GSE). Dannex Ayrton Starwin Limited, a pharmaceutical company, was excluded as its financial reports for the study period (2010-2019) were not readily available. Therefore, it was excluded from the analysis. The minimum sample size that yields a representative sample for proportions was computed using Yamane's (1973) simplified formula:

$$n = \frac{N}{1+N(e)^2}$$

Using the conventional precision level of e=0.05 or 5%, the minimum sample size of approximately 33 listed firms. However, this study used an actual sample size of 35 firms, thus increasing the minimum sample size by two and yielding a

highly representative that represents 97.22% of the total population of 36 companies quoted on the Ghana Stock Exchange (GSE).

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3.2. Instrumentation

Strategic management accounting information disclosure (SMAID) is measured in this study by developing a disclosure index based on Cadez and Guilding's (2008) five dimensions of SMA, namely, competitor accounting, customer accounting, strategic decision-making, strategic costing, and strategic planning, control, and performance measurement. The SMAID measurement instrument, accordingly, has five parts. The total score obtainable on SMAID for each firm equals the sum of the scores obtained under competitor accounting, customer accounting, strategic costing, strategic decision-making, and strategic planning, control, and performance measurement.

3.3. Model Specification

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Linear dynamic panel data model is applied in this study. Linear dynamic panel-data (LDP) models include lags of the dependent variable as covariates and contain unobserved panel-level effects, fixed or random. The LDP model fits a dynamic panel-data model by using the Arellano–Bond (1991) or the Arellano–Bover/Blundell–Bond (1995, 1998) estimator. The Arellano–Bond estimator is designed for datasets with many panels and few periods, and it requires that there be no autocorrelation in the idiosyncratic errors. Consider the dynamics panel-data model:

Where: $\{i = 1, ..., N\}; t = \{1, ..., T_i\}$

 $\alpha_j, \dots, \alpha_p$ are *p* parameters to be estimated X_{it} is a $1 \times k_1$ vector of strictly exogenous covariates

 $\beta_1 = k_1 \times 1$ vector of parameters to be estimated

 w_{it} is a 1 × k_2 vector of predetermined covariates

 $\beta_2 = k_2 \times 1$ vector of parameters to be estimated

 v_i are the panel-level effects (which may be correlated with X_{it} or w_{it}) and

 ϵ_{it} are independently and identically distributed (*i*. *i*. *d*) or come from a low-order moving-average process, with variance σ_{ϵ}^2 .

Windmeijer (2005) derived a bias-corrected robust estimator for two-step VCEs from GMM estimators known as the WC-robust estimator.

However, the WC-robust two-step estimator requires the variance-covariance matrix of the two-step estimator to be full rank. As this is not the case in this study's panel data set, the one-step system GMM estimator is applied since its variance-covariance matrix provides correct coverage. Blundell and Bond proposed a system GMM estimator in which the moment conditions of the first difference GMM and level GMM are used jointly to avoid weak instruments and improve the efficiency of the estimator. The moment conditions used in constructing the system GMM estimator are given by:

Using equation (2) above, the one-step system GMM estimator is calculated as:

$$\hat{\varphi}^{s} = (y_{-1}^{s'}H^{s}W_{G}^{s}H^{s'}y_{-1}^{s})^{-1}y_{-1}^{s'}H^{s}W_{G}^{s}H^{s'}y^{s}\dots\dots(4)$$

we $y_{-1}^{s} = \left[(\Delta y_{1,-1}^{\prime}, y_{1,-1}^{\prime}), \dots, (\Delta y_{N,-1}^{\prime}, y_{N,-1}^{\prime}) \right]^{\prime}, y^{s} = \left[(\Delta y_{1}^{\prime}, y_{1}^{\prime}), \dots, (\Delta y_{N}^{\prime}, y_{N}^{\prime}) \right]^{\prime}, H^{s} = \left(H_{1}^{s'}, \dots, H_{N}^{s'} \right)^{\prime}, \text{ and}$

In ascertaining the determinants of SMAID of listed firms, it was assumed that the processes leading to the arrival of these variables may be dynamic such that current values could be affected by past realizations. Secondly, this study does not assume that there are no significant individual differences among the listed firms, a presumption that would have warranted the use of the fixed effects model. Rather, this study asserts that each listed firm is unique, especially when it comes to the dynamics that influence their SMAID. Consequently, this study rules out the fixed effects assumption in favor of the panel setup, where variation over time can be used to identify parameters. Thirdly, this study contends that the variables may be endogenous in the sense of their current realizations being influenced by their past values. Fourthly, this analysis also assumes that the idiosyncratic disturbances in the dynamic panel econometric model may have individual-specific patterns of heteroskedasticity and serial correlation, with these idiosyncratic disturbances being uncorrelated

across individuals. Fifthly, it is assumed in this analysis that some regressors can be predetermined but not strictly exogenous; that is, independent of current disturbances, as some regressors could be influenced by past ones. This justifies why lagged dependent variables are inculcated in the empirical econometric models. Finally, the use of the dynamic panel model deploying the one-step system GMM is very applicable in this analysis since the number of periods of available data, *T*, which is from 2010 to 2019 (10 years), is very small compared to the number of panels (35 GSE-listed firms), creating the situation of "small T, large N" panel data set.

3.4. Estimation Approach

The empirical model specified to help ascertain the determinants of strategic management accounting information disclosure (SMAID) among listed firms on Ghana Stock Exchange as depicted in equation 7 below.

 $SMAID_{it}$ = Dependent variable referring to the aggregate values of the current strategic management information disclosure index

 w_{it} = Vector of predetermined covariates defined as: $COMPETACCT_{it-1}$ = Past values of competitor accounting information disclosure *CUSTOMACCT*_{*it*-1} = Past values of customer accounting information disclosure $STRATCOSTING_{it-1}$ = Past values of strategic costing information disclosure STRATDECIMAKING_{it-1}= Past values of strategic decision-making information disclosure $SPCPM_{it-1}$ = Past values of strategic planning, control, and performance measurement information disclosure *X_{it}* = Vector of strictly exogenous covariates defined as: CGID_{it, it-1} = present and past values of corporate governance information disclosure index SCID_{it, it-1}= Present and past values of strategic corporate information disclosure index ROA_{it} it -1 = Present and past values of return on assets $ROE_{it, it-1}$, = Present and past values of return on equity $SIZE_{it}$ it = Present and past value of firm size $LEV_{it, it-1}$ = Present and past values of firm leverage LIQ_{it} it_{-1} = Present and past values of firm liquidity $SALESGROWTH_{it, it-1}$ = Present and past values of sales growth $ASSETSINPLACE_{it, it-1}$ = Present and past values of assets-in-place $TAX_{it, it-1}$ = Present and past values of corporate tax payment information disclosure CSRINDEX_{it, it-1} = Present and past values of aggregate corporate social responsibility disclosure index *INFR*_{*it*, *it*-1} = Present and past values of inflation rates INTR_{it. it-1} = Present and past values of interest rates $MS_{it, it-1}$ = Present and past values of money supply GDP_{it} it-1 = Present and past values of gross domestic product DIV_{it. it-1} = Present and past values of the dividend payment information disclosures *CEODUAL*_{it. it-1} = Present and values of CEO duality situation INDDIRECTOR_{it. it-1} = Present and past values of independent, non-executive directors $BCOMP_{it, it-1}$ = Present and past values of board composition $BSIZE_{it}$ it = Present and past values of board size $BFREQMEET_{it, it-1}$ = Present and past values of frequency of board meetings BSUBCOMTE_{it it-1} = Present and past values of board sub-committees DIRECTOROWNER_{it, it-1} = Present and past values of director ownership GOVTOWNER_{it it-1} = Present and past values of government ownership INSTIOWNER_{it, it-1} = Present and past values of institutional ownership BLOCKOWNER_{it. it-1} = Present and past values of block ownership AUDITFIRMSIZE_{it. it-1} = Present and past values of audit firm size $AUDITCMTTEE_{it}$ it = Present and past values of the audit committee $REMUCMTTEE_{it, it-1}$ = Present and past values of the remuneration committee SMAID_{i,t-i}= Endogenous covariates (lagged values of Strategic Management Accounting Information Disclosure $\alpha_1, \dots \alpha_p$ are parameters to be estimated $\beta_{1,i} = m \times 1$ Vector of parameters to be estimated $\beta_{2,i}$ = n × 1 vector of parameters to be estimated $v_i = panel - level effects$ (Which may be correlated with X_{it} and w_{it}) ϵ_{it} = i.i.d. or comes from a lower-order moving average process, with variance σ_{ϵ}^2 .

4. Results and Discussions

4.1. Regression Analysis

Feasible Least Squares (FLS) approximation and the random effects (RE) algorithm were used simultaneously with the primary estimator (Linear dynamic panel (LDP) parameter estimator) to establish the effect of the variables on SMAID. This serves as a robustness test of the primary estimator.

<u>4.1.1. Effects of Board Characteristics and Board Dividend Payment Decisions on Strategic Management Accounting</u> <u>Information Disclosures</u>

4.1.1.1. Effect of CEO Duality on SMAID

The fallouts from the parameter estimators establish that the veritable effect of the previous year's CEO duality is negatively insignificant on the present aggregate SMAID ($\beta_{LDP, 2,17} = -.0150787$; p>0.05; $\beta_{FLS, 2,17} = -.0163366$; p>0.05; $\beta_{RE, 2,17} = -.0163366$; p>0.05). Moreover, the effect of the present period's CEO duality on present aggregate SMAID is negatively miniature at the 95% confidence level ($\beta_{LDP, 2,17} = .0192735$; p>0.05; $\beta_{FLS, 2,17} = -.001476$; p>0.05; $\beta_{RE, 2,17} = -.001476$; p>0.05) (See tables 1, 3 & 4 in the Appendix). Contingent upon the above finding, the first hypothesis that *Ha1: CEO Duality Exerts a Significant Positive Effect on Strategic Management Accounting Information Disclosure* is rejected.

Arunruangsirilert and Chonglerttham (2017), who explored the relationships between corporate governance characteristics and strategic management accounting (SMA) in Thailand, observed that CEO duality had a positive effect on SMAID. The apparent dichotomy between this study's finding of a negatively insignificant bearing of CEO duality on SMAID, as opposed to Arunruangsirilert and Chonglerttham's (2017) observation, might be purely due to contextual factors. Moreover, the finding is consistent with previous studies, such as Cheng and Courtenay (2006), who found that CEO duality does not significantly affect SMAID in Australian firms. However, it contradicts studies such as Al-Matari et al. (2014), who found that CEO duality negatively affects SMAID in Oman.

The finding that CEO duality has a small negative effect on SMAID suggests that it does not significantly impact the quality and quantity of information released by Ghana Stock Exchange-listed firms in their annual reports. This means that companies with CEO duality can still provide stakeholders with high-quality SMAID, which can be useful in their decision-making. Policymakers can use the finding to encourage firms to provide more SMAID, regardless of their CEO duality status. Additionally, they can recommend that firms implement measures to ensure their CEOs are not overly dominant in decision-making processes, which can affect SMAID quality.

4.1.1.2. Effect of Independent, Non-Executive Directors (INEDs) on SMAID

There is a positive, non-substantial impact of the current number of independent, non-executive directors on the present aggregate SMAID ($\beta_{LDP,2,18} = .0013037$; p>0.05; $\beta_{FLS, 2,18} = -.0017245$; p>0.05; $\beta_{RE. 2,18} = -.0017245$; p>0.05). The previous year's number of independent and non-executive directors exhibits an insignificant positive impact on the current aggregate SMAID ($\beta_{LDP, 2,18} = .0056509$; p>0.05; $\beta_{FLS, 2,18} = .003572$; p>0.05; $\beta_{RE, 2,18} = .003572$; p>0.05) (See tables 1, 3 & 4 in the Appendix). Based on the above result, the second hypothesis, which states: *Ha2: Independent Non-Executive Directors Have a Significant Positive or Negative Effect on Strategic Management Accounting Information Disclosure*, is partly confirmed.

This study disagrees with Hassan and Lahyani (2020), which found a negative link between independent nonexecutive directors (INEDs) and voluntary disclosures. The observed difference between this study's findings and that of Hassan and Lahyani (2020) might be due to the number of listed firms employed and the fact that they used non-financial listed firms whilst this paper adopted listed firms on the Ghana Stock Exchange. Also, contextual differences might be a factor. However, the study's findings are consistent with previous studies that have found a positive but inconsequential relationship between the appointment of INEDs and SMAID (e.g., Adomako et al., 2017; Agyei-Mensah & Owusu-Ansah, 2011).

The findings of the study suggest that the presence of INEDs may not have a significant impact on SMAID. Therefore, companies may need to reconsider the appointment of INEDs and assess their role and effectiveness in ensuring transparency and accountability. Companies should implement other measures, such as strengthening internal control systems, enhancing the competence of the audit committee, and encouraging the participation of stakeholders in the decision-making process. The results also suggest that regulators and policymakers need to review and evaluate the effectiveness of the current regulations and guidelines concerning the appointment of INEDs in Ghana. Policymakers should modify the current regulations to ensure that the appointment of INEDs is not a mere formality but a meaningful contribution to corporate governance practices.

4.1.1.3. Effect of Board Composition on SMAID

The impact of the current period's board composition on the present aggregate SMAID is negative and nonsubstantial at the 95% confidence level ($\beta_{LDP,2,19} = -.0006036$; p>0.05; $\beta_{FLS, 2,19} = .0403828$; p>0.05; $\beta_{RE, 2,19} =$.0403828; p>0.05). The effect of the previous year's board composition on the present aggregate SMAID is negative and non-substantial at the 95% confidence level ($\beta_{LDP, 2,19} = -.0612486$; p>0.05; $\beta_{FLS, 2,19} = -.0626934$; p>0.05; $\beta_{RE, 2,19} =$ -.0626934; p>0.05) (See tables 1, 3 & 4 in the Appendix). Depending on this finding, the third hypothesis, which states that *Ha3: Board Composition has a Significant Positive Effect on Strategic Management Accounting Information Disclosure* is rejected. Empirically, the above finding opposes an earlier work performed by Okougbo and Adebimpe (2011), who examined the association between corporate governance, company attributes, and voluntary disclosures among Nigerian listed companies. The apparent disparity between this study's finding of a negative non-significant influence and that of Okougbo and Adebimpe (2011) of a positive effect of board composition on SMAID is the number of listed companies and probably the methodology adopted. Besides, the findings of this study are consistent with previous studies that have found a limited impact of board composition on SMAID (e.g., Adomako et al., 2017; Agyei-Mensah & Owusu-Ansah, 2011). These studies suggest that other factors, such as the involvement of management in the disclosure process and the quality of communication with stakeholders, are more important in enhancing the quality and quantity of SMAID.

The above finding of the study has practical implications for the management of firms listed on the Ghana Stock Exchange. The limited impact of board composition on SMAID suggests that firms should not solely rely on the board of directors to improve the quality and quantity of information disclosed in their annual reports. Instead, firms should adopt other measures to enhance the quality of SMAID, such as increasing the involvement of management in the disclosure process and engaging in open communication with stakeholders. The study's results have significant policy implications for regulators and policymakers also. The limited impact of board composition on SMAID suggests that regulatory efforts to improve SMAID should not solely focus on board composition. Instead, regulators should consider other factors, such as the involvement of management in the disclosure process and the quality of communication with stakeholders, when designing disclosure policies.

4.1.1.4. Effect of Board Size on SMAID

The effect of board size on present aggregate SMAID is positively non-substantial for the current board size at the 95% confidence level ($\beta_{LDP, 2,20} = .0008987$; p>0.05; $\beta_{FLS, 2,20} = .0026521$; p>0.05; $\beta_{RE, 2,20} = .0026521$; p>0.05). The impact of board size on present aggregate SMAID is negatively insignificant for the previous year's board size at the 95% confidence level ($\beta_{LDP, 2,20} = -.0008418$; p>0.05; $\beta_{FLS, 2,20} = -.0012436$; p>0.05; $\beta_{2,20} = -.0012436$; p>0.05) (See tables 1, 3 & 4 in the Appendix). Contingent on this result, the fourth hypothesis, which states that *Ha4: Board Size Has a Significant Positive Effect on Strategic Management Accounting Information Disclosure* is partially confirmed concerning the current period's board size and partly disconfirmed for the previous year's board size.

The study partially agrees with the investigation of Honggowati et al. (2017), who empirically examined the extent of corporate governance and voluntary disclosure by listed firms in Malaysia. The results suggested a significantly positive association between board size and SMAID. However, this study's finding of a negatively insignificant effect of the previous year's board size on SMAID disagrees with the investigation of Honggowati et al. (2017). Also, El-Deeb and Elsharkawy (2019) tested the impact of the corporate governance mechanisms related to the board characteristics on the forward-looking disclosures of companies listed in the Egyptian stock market. The study results revealed that board size had a positive effect on strategic management accounting disclosure. This work (El-Deeb & Elsharkawy, 2019) partly agrees with the current study's finding of a positive non-substantial effect of the current year's board size on SMAID.

Moreover, the findings of this study are consistent with previous research that has found a positive but nonsubstantial relationship between board size and SMAID (e.g., Adomako et al., 2017; Agyei-Mensah & Owusu-Ansah, 2011). However, the results contradict other studies that have found a significant positive relationship between board size and SMAID (e.g., Chen et al., 2010; Mohebi & Poursaeedi, 2016).

The finding of this study suggests that increasing board size may not necessarily lead to improved SMAID in the short-term. However, firms may benefit from having a diverse set of directors on the board, with varying levels of expertise and experience, as this may positively influence SMAID in the long term. From a policy perspective, GSE-listed firms must maintain an "optimal board size" that would enhance SMAID. However, this also requires that further scientific studies are conducted to establish the 'minimum board size' that listed firms in a particular industry should maintain to maximize SMAID.

4.1.1.5. Effect of Frequency of Board Meetings on SMAID

The effect of the current year's frequency of board meetings on present aggregate SMAID is positive and significant at the 90% and 95% confidence levels ($\beta_{LDP, 2,21} = .0025075$; p<0.05; $\beta_{FLS, 2,21} = .0027545$; p<0.05; $\beta_{RE, 2,21} = .0027545$; p<0.10). The influence of the previous period's frequency of board meetings on present aggregate SMAID is negative and substantial at the 90% and 95% confidence levels ($\beta_{LDP, 2,21} = -.004318$; p<0.05; $\beta_{FLS,2,21} = -.0042808$; p<0.05; $\beta_{RE,2,21} = -.0042808$; p<0.05). (See tables 1, 3 & 4 in the Appendix). Contingent to the above findings, the fifth hypothesis shows that *Ha5: Frequency of Board Meetings Has a Positive Significant Effect on Strategic Management Accounting Information Disclosure* is fully confirmed for the current year and partially disconfirmed for the previous year.

The findings of Laksmana (2008) partially agree with this study's result of the significant positive effect of the frequency of board meetings in the current year on SMAID. However, this study's finding of a significant negative influence of the frequency of board meetings in the previous year on SMAID partially rejects the work of Laksmana (2008) as he found a significant positive link between the frequency of board meetings and SMAID. Ntim and Osei (2011) argue that the frequency of board meetings measures the intensity of a board's activities and the quality or effectiveness of its monitoring. From an agency's theoretical perspective, a higher frequency of board meetings can help to improve the quality of managerial monitoring, which in turn has a positive impact on corporate performance (Ntim & Osei, 2011). However, Alhazaimeh et al. (2014) find that there is no significant relationship between the frequency of meetings of the board and voluntary disclosure. Alhazaimeh et al. (2014) partially agree with the current study's outcome of a substantial negative effect on the frequency of board meetings in the current year and a positive, relevant effect in the previous year.

The findings suggest that firms may need to pay attention to the frequency of their board meetings to enhance the quality and quantity of their SMAID. Increasing the frequency of meetings could potentially lead to a higher level of SMAID disclosure in the current year. On the other hand, a decrease in the frequency of meetings may result in a lower level of SMAID disclosure in the following year. From a policy perspective, there is a need for the boards of the GSE-listed to maintain an "optimal frequency of board meetings" that would maximize SMAID. However, this would require that future studies ascertain the "minimum number of board meetings" that would maximize the SMAID of firms. Moreover, regulators and policymakers should consider the impact of the frequency of board meetings on SMAID disclosure when formulating governance policies. Encouraging firms to hold regular board meetings may lead to increased transparency and accountability, which could have a positive impact on the overall quality of financial reporting.

4.1.1.6. Effect of Board Sub-Committees on SMAID

Amalgamating the results, we conclude that the veritable impression of the existence of board subcommittees on present aggregate SMAID may exhibit some non-linearities, with the previous year's board sub-committees' existence exerting a substantial negative effect ($\beta_{LDP,2,22} = -.1032271$; p<0.05; $\beta_{FLS,2,22} = -.0785279$; p<0.05; $\beta_{RE,2,22} = -.0785279$; p<0.05) and the current year's board subcommittee demonstrating a significant positive influence of present SMAID at the 95% confidence level ($\beta_{LDP,2,22} = .1410522$; p<0.05; $\beta_{FLS,2,22} = .0944691$; p<0.05; $\beta_{RE,2,22} = .0944691$; p<0.05). (See tables 1, 3 & 4 in the Appendix). Reliant on this result, the sixth hypothesis that is, *Ha6: Board Sub-Committee Exert a Significant Positive Effect on Strategic Management Accounting Information Disclosure*, is fully confirmed for the current year's board sub-committee.

Boubaker & Hamrouni (2013) studied the effect of corporate governance practices on the extent of voluntary disclosure in France. The results revealed that board sub-committees had a positive effect on SMAID. This agrees with this study's findings of a significant positive influence of the current year's board sub-committee on SMAID. However, this study's finding of a substantial negative effect of the previous year's board sub-committee on SMAID partially disconfirms the work of Boubaker & Hamrouni (2013), who found a positive influence of the board sub-committee on SMAID. Additionally, the study's findings are consistent with previous research that has examined the impact of board sub-committees on SMAID. For example, Muttakin et al. (2016) found that board sub-committees positively influence the level of SMAID disclosure. The study also contributes to the literature by highlighting the non-linear impact of board sub-committees on SMAID. Moreover, this study's finding of the previous year's board subcommittees' existence exerting a substantial negative effect on SMAID also agrees with other previous studies (Alhazaimeh et al., 2014; Aljifri et al., 2014).

The study highlights the importance of having an effective board sub-committee in place to enhance the quality and quantity of SMAID released by firms. Firms should ensure that their board sub-committees are structured effectively to enable them to provide the necessary oversight and guidance to the management team. The study's finding has significant policy implications for regulators and policymakers.

4.1.1.7. Effects of Audit Committees on SMAID

Conjoining the results, we conclude that the true effect of the existence of audit committees on present aggregate SMAID may exhibit some momentous non-linearities, with the previous year's audit sub-committee's existence exerting a substantial positive effect ($\beta_{LDP,2,28} = .0927605$; p > 0.05; $\beta_{FLS,2,28} = .0994955$; p < 0.05; $\beta_{RE,2,28} = .0994955$; p < 0.05) and the current year's audit committee demonstrating a significant negative influence of present SMAID at the 95% confidence level ($\beta_{LDP,2,28} = -.1360019$; p < 0.05; $\beta_{FLS,2,28} = -.0913768$; p < 0.05; $\beta_{RE,2,28} = -.0913768$; p < 0.05). (See tables 1, 3 & 4 in the Appendix). Contingent to the above, the seventh hypothesis, which states that, *Ha7: Audit Committee Has a Significant Positive Effect on Strategic Management Accounting Disclosure*, is fully confirmed for the previous year's audit committee and partially confirmed for the current year's audit committee.

This study's outcome, which shows a significant positive effect of the previous year's audit committee on SMAID, partly agrees with Samaha et al. (2015), who applied meta-analysis to a sample of 64 empirical studies to identify the potential moderators of the relationship between the board, audit committee characteristics, and voluntary disclosure. The results showed that the audit committee had a positive effect on Strategic Management Accounting Disclosure.

Also, in a more recent study, Loi, Duc, and Hung (2021) explored the relationships between three important components: Corporate Governance, Audit Committee, and Strategic Management Accounting. The results revealed a positive relationship between audit committees and strategic management accounting. This study partly agrees with the significant positive effect of the previous year's audit committee on SMAID and partly disconfirms the significant negative influence of the current year's audit committee has a positive impact on corporate disclosure behavior. This also partially confirms the significant positive influence of the previous year's audit committee has a positive impact on corporate disclosure behavior. This also partially confirms the significant positive influence of the previous year's audit committee hand, others do not find such an association (Alhazaimeh et al., 2014; Aljifri et al., 2014).

The study's results indicate that companies should carefully consider the composition and activities of their audit committees, as these factors may affect SMAID. Companies may need to review their audit committees' performance, their activities, and the timing of their meetings to determine how they can best improve their SMAID practices. Regulators and policymakers should consider the role of audit committees in promoting SMAID practices. They may need to develop guidelines and best practices for audit committees to ensure that they are functioning effectively and efficiently in promoting SMAID. Moreover, Audit committees should continue to exercise their discretionary powers when it comes to the quality and quantity of SMAID and operates within the pre-determined threshold that would enhance organisational success.

4.1.1.8. Effect of Remuneration Committees on SMAID

Linking the results, we again conclude that the true effect of the existence of remuneration committees on present aggregate SMAID may exhibit some inconsequential non-linearities, with the previous year's remuneration committee's existence exerting a non-substantial negative effect ($\beta_{LDP,2,29} = .0122407$; p>0.05; $\beta_{FLS,2,29} = .0283143$; p>0.05; $\beta_{RE,2,29} = -.0283143$; p>0.05) and the current year's remuneration committee demonstrating an immaterial positive influence of present SMAID at the 95% confidence level ($\beta_{LDP,2,29} = .012907$; p>0.05; $\beta_{FLS,2,29} = .024212$; p>0.05; $\beta_{RE,2,29} = .024212$; p>0.05). (See tables 1, 3 & 4 in the Appendix). Dependent on the above result, the eighth hypothesis, that is, *Ha8: Remuneration Committee Has a Significant Positive or Negative Effect on Strategic Management Accounting Information Disclosure*, is partially confirmed for both current years and the previous year's remuneration committee.

Previous studies have investigated the impact of various governance mechanisms on SMAID; for instance, a study by Singh and Davidson (2019) found that board diversity positively influences SMAID. Another study by Abdelsalam et al. (2013) found that the existence of audit committees enhances the quality of financial reporting. However, there is limited research on the impact of remuneration committees on SMAID, making this study a valuable contribution to the literature.

The findings suggest that the presence of a remuneration committee may have a positive effect on SMAID in the current year but not in the previous year. Companies should consider the role of remuneration committees in enhancing SMAID and ensure that they are adequately constituted with members who possess the relevant expertise. The results of the study have significant policy implications for regulators and policymakers. Regulators should consider requiring companies to have remuneration committees that are adequately constituted and can positively impact SMAID. Policymakers should also focus on providing the necessary resources and training to remuneration committee members to enable them to carry out their roles effectively.

4.1.1.9. Effect of Board Dividend Payment Decisions on SMAID

Combining the results, we again conclude that the true effect of the existence of remuneration committees on present aggregate SMAID may exhibit some paltry non-linearities, with the previous year's board dividend payment decisions exerting a non-substantial positive effect ($\beta_{LDP,2,16} = .0004916$; p>0.05; $\beta_{FLS,2,16} = .0084343$; p>0.05; $\beta_{RE,2,16} = .0084343$; p>0.05) and the current year's board dividend payment decisions demonstrating an unimportant negative influence of present SMAID at the 95% confidence level ($\beta_{LDP,2,16} = .0158174$; p<0.10; $\beta_{FLS,2,16} = -.0050023$; p>0.05; $\beta_{RE,2,16} = -.0050023$; p>0.05) (See tables 1, 3 & 4 in the Appendix). Contingent to the above finding, the final hypothesis, which states that *Ha9: Dividends Payment has a Significant Positive Effect on Strategic Management Accounting Information Disclosure* is partly confirmed for the previous year's board dividend payment decisions and concerning the current year's board dividend payment decisions and concerning the current year's board dividend payment decisions and concerning the current year's board dividend payment decisions and concerning the current year's board dividend payment decisions, is fully rejected.

This study's result of a positively non-substantial influence between the previous year's board dividend payment and SMAID partially agrees with Jiraporn, Kim & Kim (2011), who investigated how a firm's overall quality of corporate governance affects its dividend policy. The study reported a positive correlation between dividends payment and strategic management accounting information disclosures.

However, this study's outcome of an unimportant negative influence of the current year's board dividend payment on SMAID rejects the positive influence discovered by Jiraporn, Kim & Kim (2011) on the link between dividend payments and strategic management accounting information disclosures. The observed difference might be a result of methodology. Moreover, the finding that dividend payment has a limited impact on SMAID is consistent with previous studies. For example, De George et al. (1999) found that dividend payment has a weak positive effect on information disclosure. Furthermore, the study supports previous research that highlights the importance of board sub-committees, audit committees, and remuneration committees in enhancing SMAID (Chen et al., 2010; Vafeas, 1999). However, the study contributes to the literature by examining the non-linear effect of dividend payment on SMAID.

This study's finding stated above suggests that the board's dividend payment decisions have a limited impact on SMAID. Therefore, companies should not rely solely on dividends to enhance their SMAID. Instead, they should focus on other factors that have a more substantial influence on SMAID, such as board sub-committees, audit committees, and remuneration committees. This finding can help companies to allocate their resources effectively and prioritize their efforts to improve SMAID. The study provides useful insights for policymakers and regulators to improve the disclosure practices of companies. Policymakers should consider mandating companies to disclose information related to their board sub-committees, audit committees, and remuneration committees.

4.1.2. Effect of Auditor Characteristic Variable (Audit Firm Size) on SMAID

Combining the results, we conclude that the true effect of the existence of the audit firm's size (past and current) on present aggregate SMAID may exhibit some insignificant non-linearities, with the previous year's audit firm size exerting a non-substantial negative effect ($\beta_{LDP,2,27} = -.0009585$; p>0.05; $\beta_{FLS,2,27} = -.0043639$; p>0.05; $\beta_{RE,2,27} = -.0043639$; p>0.05) and the current year's audit firm size demonstrating an insignificant positive influence of present SMAID at the 95% confidence level ($\beta_{LDP,2,27} = .0065903$; p>0.05; $\beta_{FLS,2,27} = .0129665$; p>0.05; $\beta_{RE,2,27} = .0129665$; p>0.05). (See tables 1, 3 & 4 in the Appendix). Reliant on the above results, the hypothesis, that is, *Hb: Audit Firm Size Has a Significant Positive Effect on Strategic Management Accounting Information Disclosure*, is partly confirmed for the current year and fully rejected for the previous year.

This study's result of a positively non-substantial bearing of the current year's audit firm size on SMAID partly agrees with El-Deeb & Elsharkawy (2019), who sought to empirically test the impact of the corporate governance mechanisms related to the board characteristics on the forward-looking disclosures. The study results revealed that audit

firm size had a positive effect on strategic management accounting disclosure. Besides, the results of El-Deeb & Elsharkawy (2019) disagree with the findings of this study that exposes an insignificant negative influence of the previous year's audit firm size on SMAID. The apparent difference between this study's finding of an insignificant negative impact between the previous year's audit firm size and SMAID and that of El-Deeb & Elsharkawy (2019) 's outcome of a positive effect may be due to contextual parameters. Also, Abdel-Fattah (2008) asserts that companies audited by an international big audit firm will disclose more information voluntarily. Moreover, the study's findings are consistent with previous research that has shown a non-linear relationship between auditor size and financial disclosures (DeFond & Park, 1997; Vafeas, 1999). By contrast, other studies indicate insignificant positive influence (Lu & Abeysekera, 2014; Lim et al., 2008), which completely agrees with the irrelevant beneficial effect of the current year's audit firm size on SMAID in this study, while an insignificant negative relationship (Ling & Sultana, 2015; Alotaibi & Hussainey, 2016) also totally agrees with the insignificant adverse link of previous year's audit firm size on SMAID in this study.

This study's findings provide useful insights for firms and audit firms in making strategic decisions about the disclosure of information. Firms should consider the potential impact of audit firm size on SMAID when selecting an audit firm, and audit firms should be aware of the importance of their size to clients and how it may affect the information disclosed. From a policy perspective, shareholders need to demand more accountability from the board regarding the size of the audit firms, more effective. There is also the need for listed firms to consider giving room for smaller audit firms to also audit the financial statements of the GSE-listed firms to bring in competition and assure a high level of auditor efficiency, especially concerning enhancing the quality and quantity of SMAID of the listed firms. Besides, the findings may also have implications for policymakers who regulate the accounting profession. Regulators should consider the potential impact of audit firm size on the quality and extent of disclosure of strategic management accounting information by firms.

4.1.3. Effect of Corporate Ownership Characteristics on SMAID

The third objective identified specific influences of the corporate ownership characteristics on SMAID.

4.1.3.1. Effect of Institutional Ownership on SMAID

Merging the results, we conclude that the true effect of institutional ownership (past and current) on present aggregate SMAID may exhibit some trifling non-linearities, with the previous year's institutional ownership structure exerting a non-substantial negative effect ($\beta_{LDP,2,25} = -.0050915$; p>0.05; $\beta_{FLS,2,25} = -.0276132$; p>0.05; $\beta_{RE,2,25} = -.0276132$; p>0.05) and the current year's ownership structure demonstrating a non-significant positive influence of present SMAID at the 95% confidence level ($\beta_{LDP,2,25} = .0651328$; p<0.05; $\beta_{FLS,2,25} = .0549445$; p>0.05; $\beta_{RE,2,25} = .0549445$; p>0.05) (See tables 1, 3 & 4 in the Appendix). Based on this result, the maiden ownership characteristics hypothesis, that is, *Hc1: Institutional Ownership has a Significant Negative Effect on Strategic Management Accounting Information Disclosure*, is partially confirmed for the previous year and rejected for the current year.

This study's outcome of a negative non-substantial effect of the previous year's institutional ownership on SMAID partly agrees with a note-worthy study conducted by Boone and White (2014), who examined the effects of institutional ownership on firms' information and trading environments using the annual Russell 1000/2000 index reconstitution. The study revealed that institutional ownership had a negative correlation with SMAID. However, the study of Boone and White (2014), who found a negative correlation between institutional ownership and SMAID, partly disagrees with the findings of this study which states an insignificant positive influence of the current year's institutional ownership on SMAID. The observed difference between this study's results and that of Boone and White (2014) might be due to the type of data employed. Whiles this study used listed firms on the GSE, Boone and White (2014) adopted the annual Russell 1000/2000 index reconstitution.

The findings of this current study suggest that firms with higher levels of institutional ownership may not be motivated to disclose strategic management accounting information, especially in the previous year. However, for the current year, firms with higher levels of institutional ownership may be motivated to disclose SMAID. Managers can use this information to develop strategies that balance the interests of institutional owners and other stakeholders. From a policy perspective, GSE-listed firms need to maintain an optimal level of institutional ownership that would maximize strategic management accounting information disclosed in their annual reports. Regulators should develop policies that encourage institutional owners to play a more active role in corporate governance.

4.1.3.2. Effect of Block Ownership on SMAID

Uniting the results, we conclude that the true effect of block ownership (past and current) on present aggregate SMAID may exhibit some insignificant non-linearities, with the previous year's block ownership structure exerting a non-substantial positive effect ($\beta_{LDP,2,26} = .0148461$; p>0.05; $\beta_{FLS,2,26} = .0137784$; p>0.05; $\beta_{RE,2,26} = .0137784$; p>0.05) and the current year's ownership structure demonstrating a non-significant negative influence of present SMAID at the 95% confidence level ($\beta_{LDP,2,26} = -.0484819$;p>0.05; $\beta_{FLS,2,26} = -.0363581$; p>0.05; $\beta_{RE, 2,26} = -.0363581$; p>0.05). (See tables 1, 3 & 4 in the Appendix).

Dependent on the above outcome, the second hypothesis, which is formulated as *Hc2: Block Ownership Has a Significant Positive or Negative Effect on Strategic Management Accounting Information Disclosure*, is partly confirmed for both the current year and the previous year.

This study's result of an adverse non-substantial influence of the current year's block ownership on SMAID partly agrees with the presence of a negative relationship between block-holder ownership and disclosure in developed

countries such as Finland (Schadewitz & Blevins, 1998), Australia (Mitchell, Chia & Loh, 1995; McKinnon & Dalimunthe, 1993), and Germany (Marston & Polei, 2004). In an Egyptian context, the findings of Samaha and Dahawy (2011) suggest a negative effect of block-holder ownership on voluntary corporate disclosures. The findings of this study are consistent with previous research that has shown a positive relationship between block ownership and disclosure of strategic management accounting information (e.g., Wang & Zang, 2009). Moreso, this study's results of a negative non-substantial effect of the current year's block ownership on SMAID partly disagree with the work of Honggowati et al. (2019), who found a positive relation with SMAID. The apparent dichotomy is, however, contextual since this current study was conducted in Ghana (Africa) and that of Honggowati et al. (2019) was done in Indonesia (Asia).

The findings suggest that companies with higher block ownership may disclose more strategic management accounting information. This information can be useful for investors, analysts, and other stakeholders in making investment decisions. Additionally, companies may consider implementing policies to encourage block ownership, which may help to increase transparency and disclosure. From a policy perspective, GSE-listed firms need to maintain an optimal level of block ownership that would significantly enhance SMAID in both the previous and current periods but also requires another investigation to establish this optimal block ownership level. Regulators may consider policies to encourage block ownership and institutional ownership, which may lead to greater disclosure of strategic management accounting information.

4.1.3.3. Effect of Government Ownership on SMAID

Linking the results, it is concluded that the true effect of government ownership on present aggregate SMAID may exhibit some inconsequential non-linearities, with the previous year's government ownership structure exerting a non-substantial positive effect ($\beta_{LDP,2,24} = -.0666641$; p>0.05; $\beta_{FLS,2,24} = .0036504$; p>0.05; $\beta_{RE,2,24} = .0036504$; p>0.05) and the current year's ownership structure demonstrating a non-significant negative influence of present SMAID at the 95% confidence level ($\beta_{LDP,2,24} = .0476344$; p>0.05; $\beta_{FLS,2,24} = .0040454$; p>0.05; $\beta_{RE,2,24} = -.0040454$; p>0.05). (See tables 1, 3 & 4 in the Appendix). Contingent to the above results, the third hypothesis states; *Hc3 Government Ownership has a Positive Significant Effect on Strategic Management Accounting Information Disclosure* is partly confirmed for the previous year but fully rejected for the current year.

This study's result of an irrelevant positive influence of the previous year's government ownership on SMAID partly agrees with Alhazaimeh et al. (2014), Ntim et al. (2012), and Khan et al. (2013) as they reported a positive association between the government ownership and voluntary disclosure. Also, Honggowati et al. (2019) sought to measure the extent of Strategic Management Accounting (SMA) disclosure and the impact of ownership structure (managerial ownership, foreign ownership, government ownership) and firm characteristics (firm size, leverage, profitability) on SMA practices in annual reports of Indonesia manufacturing companies. The findings revealed that government ownership has a positive relation with SMAID. This result partially agrees with the insignificant positive influence of the previous year's government ownership on SMAID in this current study. However, this study's result of a negative non-substantial effect of the current year's government ownership on SMAID partially disagrees with that of Honggowati et al. (2019), who found a positive link between government ownership and SMAID.

Furthermore, Ghazali and Weetman (2006) find an insignificant association which also partly agrees with the current study's result in both the current and previous years' government ownership of SMAID, while Ebrahim and Fattah (2015) report a negative association between government ownership and voluntary disclosure which partially agrees with this study's findings.

Managers need to carefully assess the impact of government ownership on SMAID before making decisions. GSElisted firms need to maintain a minimum threshold of government ownership that would significantly maximize SMAID disclosures in both the previous and current periods. Unfortunately, this minimum threshold also requires another investigation to establish. Policymakers need to recognize that government ownership can have an impact on SMAID. Therefore, they need to ensure that government-owned firms disclose relevant strategic management accounting information to ensure transparency and accountability.

4.1.3.4. Effect of Director Ownership on SMAID

Coalescing the results, it is concluded that the true effect of government ownership on present aggregate SMAID may exhibit some, albeit non-substantial non-linearities, with the previous year's government ownership structure exerting a non-substantial positive effect ($\beta_{LDP,2,23} = .0203289$; p>0.05; $\beta_{FLS,2,23} = .0208611$; p>0.05; $\beta_{RE,2,23} = .0208611$; p>0.05) and the current year's ownership structure demonstrating an inconsequential negative influence of present SMAID at the 95% confidence level ($\beta_{LDP,2,23} = -.0075031$; p>0.05; $\beta_{FLS,2,23} = -.0156345$; p>0.05; $\beta_{2,23} = -.0156345$; p>0.05). (See tables 1, 3 & 4 in the Appendix). Reliant on the above result, the fourth hypothesis, that is, *Hc4: Director Ownership has a Significant Positive or Negative Effect on Strategic Management Accounting Information Disclosure*, is partially confirmed for both the previous year and the current year.

This study's finding of the current year's director ownership demonstrating a non-substantial negative influence partially agree with Eng and Mak (2003) and Wang and Hussainey (2013) as they both found a negative association between director ownership and voluntary corporate disclosure. Previous research has provided some evidence that director ownership can have both positive and negative effects on SMAID. Amran et al. (2013) found that board ownership has a positive relationship with SMAID, which implies that directors with a higher ownership stake in the company are more likely to disclose information to shareholders. However, other studies have shown that director ownership may not

necessarily result in greater transparency or more accurate disclosure (Agyei-Mensah & Owusu-Ansah, 2019; Liu et al., 2021).

The practical implications of these findings suggest that corporate governance practices, such as direct ownership, may have a subtle impact on SMAID. Companies should, therefore, take a holistic approach to corporate governance by considering not only director ownership but also other factors such as board independence, CEO duality, and shareholder activism. Companies with high director ownership may be more likely to disclose information to shareholders, but they should also ensure that such information is accurate, timely, and relevant to the needs of stakeholders. Regulators should also encourage companies to implement effective monitoring and control mechanisms to prevent conflicts of interest arising from high director ownership. Companies with high director ownership should be required to provide greater transparency on the nature and extent of their ownership and their decision-making processes to ensure that they are accountable to all stakeholders.

4.1.4. Effect of Past and Present Aggregate Strategic Corporate Information Disclosures on Present SMAID

The fourth objective was to analyze the stimuli of past and present values of aggregate strategic corporate information disclosures (SCID) on present strategic management accounting information disclosures.

The effect of past SCID levels on present aggregate SMAID is negatively non-substantial at the 95% confidence level ($\beta_{LDP,2,2} = .0286546$; p>0.05; $\beta_{FLS,2,2} = .0201926$; p>0.05; ($\beta_{RE,2,2} = -.0201926$; p>0.05). On the other hand, the current aggregate strategic corporate information disclosure level (SCIDL0) exerts a significant positive effect on the present aggregate SMAID ($\beta_{LDP,2,2} = .0892429$; p<0.10; $\beta_{FLS,2,2} = .0900222$; p<0.05; $\beta_{RE,2,2} = .0900222$; p<0.05). (See tables 1, 3 & 4 in the Appendix). Contingent to the above findings, hypothesis *Hd: Past and present Aggregate SCID Exerts a Significant Positive or Negative Effect on Present Aggregate Strategic Management Accounting Information Disclosure* is partly confirmed for past SCID and fully confirmed for present SCID.

The finding that current SCID levels have a positive effect on SMAID is consistent with Chenhall & Zuhair (2017). Moreover, the finding that past SCID levels do not have a significant effect on SMAID is in line with prior studies that suggest that historical information is less relevant in the current context (Langfield-Smith, 2018).

Companies should prioritize the disclosure of relevant and timely information to facilitate better decision-making. Secondly, the lack of a significant effect of past SCID levels on SMAID indicates that organizations should focus on providing current information to their stakeholders. Managers should consider the type of information disclosed and ensure that it aligns with the company's strategic goals. The findings of this study highlight the need for regulations that mandate the disclosure of relevant and timely information to promote transparency and accountability. It emphasizes the importance of aligning information disclosure policies with the strategic goals of the organization. Policymakers should recognize the limited value of historical information and focus on promoting the disclosure of current information that is more relevant to decision-making.

4.1.5. Effect of Past and Present Aggregate Corporate Governance Information Disclosures on Present SMAID

The fifth objective of the study scrutinises the stimuli of past and present values of aggregate corporate governance information disclosure (CGID) on present (SMAID). The results indicate that the effect of past CGIG levels on present aggregate SMAID is negatively non-substantial at the 95% confidence level ($\beta_{LDP,2,1} = .0088115$; p>0.05; $\beta_{FLS,2,1} = -.1842844$; p>0.05; $\beta_{RE,2,1} = -.1842844$; p>0.05), whereas the effect of present CGID levels on current aggregate SMAID may be positively non-substantial ($\beta_{LDP,2,1} = .035763$; p>0.05; $\beta_{FLS,2,1} = .2273819$; p>0.05; $\beta_{RE,2,1} = .2273819$; p>0.05) (See tables 1, 3 & 4 in the Appendix). Contingent to the above results, the hypothesis is, *He: Past and Present Aggregate Corporate Governance Information Disclosure Exerts a Significant Positive or Negative Effect on Present Aggregate Strategic Management Accounting Information Disclosure* is partially confirmed for both present CGID and past CGID.

Prior research has highlighted the importance of corporate governance information disclosure in enhancing the transparency and accountability of companies. Studies by Ahmed and Courtis (1999) and Xie et al. (2003) found a positive association between corporate governance disclosure and firm performance. Similarly, research by Chen et al. (2008) and Chi et al. (2009) found that corporate governance disclosure enhances investor confidence and reduces information asymmetry. The present study's findings contribute to this body of research by examining the impact of past and present aggregate CGID on present SMAID.

The findings of this present study suggest that companies should focus on improving their present CGID levels to enhance their current aggregate SMAID. This may involve adopting measures such as strengthening board oversight, improving internal controls, and enhancing transparency in financial reporting. On the other hand, the non-significant effect of past CGID levels on present SMAID suggests that companies need to ensure that their CGID practices are up-todate and relevant to the current business environment. The non-significant effect of past CGID levels on present SMAID suggests that regulators need to ensure that disclosure requirements remain relevant and up to date. The positive but nonsignificant effect of present CGID levels on current aggregate SMAID suggests that policymakers should encourage companies to adopt best practices in corporate governance disclosure.

4.1.6. Influences of Past Aggregate SMAID and Its Dimensions of Present Aggregate SMAID

The sixth specific objective was to establish the effects of past aggregate SMAID and their dimensions, namely,

- Competitor accounting,
- Customer accounting
- Strategic costing,

- Strategic decision-making, and
- Strategic planning, control, and performance measurement, on present strategic management accounting information disclosures.

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4.1.6.1. Effect of Past Aggregate SMAID on Present SMAID

The results conclusively demonstrate that past aggregate strategic management accounting information disclosure exerts a significant positive influence on current aggregate SMAID ($\alpha_{LDP,1}$ =.3260404; p < 0.05; $\alpha_{FLS,1}$ = .3722122; p < 0.05; $\alpha_{RE,1}$ = .3722122; p < 0.05) (See tables 1, 3 & 4 in the Appendix). Based on this result, the hypothesis: *Hf1: Past Aggregate SMAID Exerts a Significant Positive or Negative Effect on Present Aggregate Strategic Management Accounting Information Disclosure* is partly confirmed.

Liu et al. (2017) found that corporate governance disclosure enhances SMAID. In addition, Li et al. (2019) found that environmental disclosure positively influences SMAID. However, there are no previous studies that have documented the influence of past SMAID on present SMAID. The present study contributes to this body of research by examining the impact of past aggregate SMAID on present SMAID.

By maintaining a high level of SMAID in the previous year, firms can positively influence their current year's SMAID. This can help firms to make more informed decisions and improve their overall performance. Policymakers should encourage firms to maintain a high level of SMAID to improve their decision-making processes and overall performance.

4.1.6.2. Effect of Past Competitor Accounting Information Disclosures on Current Aggregate SMAID

The results show that past competitor accounting information disclosures of firms listed on the GSE exert a significant positive effect on current aggregate SMAID ($\beta_{LDP,1,1} = .0446505; p > 0.05; \beta_{FLS,1,1} = .0598114; p < 0.05; \beta_{RE,1,1} = .0598114; p < 0.05$) (See tables 1, 3 & 4 in the Appendix). Reliant on the above result, the second hypothesis, that is, *Hf2: Past Competitor Accounting Information Disclosure Exerts a Significant Positive or Negative Effect on Current Strategic Management Accounting Information Disclosure*, is partially confirmed.

Studies have found that corporate governance disclosure enhances investor confidence and reduces information asymmetry (Chen et al., 2008) and that environmental disclosure positively influences SMAID (Li et al., 2019). The present study contributes to this body of research by examining the impact of past competitor accounting information disclosures on current aggregate SMAID.

The results suggest that firms should pay close attention to their competitor's accounting information disclosures and use this information to make strategic decisions. For example, a firm may identify areas where its competitors are outperforming it and use this information to improve its performance. Firms may use competitor accounting information disclosures to identify new markets or investment opportunities. Regulatory bodies may consider implementing policies that require firms to disclose more detailed accounting information, including competitor information. This would enable stakeholders to make better-informed decisions and improve market efficiency.

4.1.6.3. Effect of Past Customer Accounting Information Disclosures on Current Aggregate SMAID

The regression outcomes demonstrate a significant positive effect of past customer accounting information disclosures on the current aggregate SMAID of firms listed on the GSE ($\beta_{LDP,1,2}$ =.1112756;p < 0.05; $\beta_{FLS,1,2}$ = .1299749; p < 0.05; $\beta_{RE,1,2}$ = .1299749; p < 0.05) (See tables 1, 3 & 4 in the Appendix). Based on this result, the third hypothesis, that is, *Hf3: Past Customer Accounting Information Disclosure Exerts a Significant Positive or Negative Effect on Current Strategic Management Accounting Information Disclosure*, is partially confirmed.

Kim and Lee (2019) found that customer satisfaction positively influences SMAID. Moreover, Lee et al. (2020) found that customer complaints can also influence SMAID. These studies suggest that customer-related information can play a vital role in shaping SMAID.

By disclosing information about their customers, firms can enhance their SMAID, which can, in turn, help them make better decisions and improve their performance. Moreover, by providing more information about their customers, firms can increase the transparency of their operations, which can improve the trust and confidence of their stakeholders. Regulators and policymakers should encourage firms to disclose more information about their customers, as this can help improve the transparency and efficiency of the market. Moreover, policymakers should consider the impact of customer-related information on SMAID when designing policies related to accounting information disclosure.

4.1.6.4. Effect of Past Strategic Costing Information Disclosure on Current Aggregate SMAID

Based on the results, it is concluded that past strategic costing information disclosures demonstrate a positive and statistically significant influence on the current aggregate SMAID ($\beta_{LDP,1,4} = .136033$; p > 0.05; $\beta_{FLS,1,4} = .2285639$; $\beta_{RE,1,4} = .2285639$; p < 0.05). (See tables 1, 3, & 4 in the Appendix). Dependent on the above outcome, the fourth hypothesis, that is, *Hf4: Past Strategic Costing Information Disclosure Exerts a Significant Positive or Negative Effect on Current Strategic Management Accounting Information Disclosure*, is partly confirmed.

There is a dearth of literature establishing the link between past strategic costing information disclosures and current aggregate SMAID. Hence, this study's finding of a positively significant effect of past strategic costing information disclosure on the current aggregate SMAID fills the empirical pothole in this area of SMAID research.

The practical implication of this finding is that companies should increase their strategic costing information disclosure as it can positively impact their current aggregate SMAID. Companies that do not disclose strategic costing

information may lag in their SMAID disclosures and may miss out on the potential benefits of SMAID. Thus, the findings of this study suggest that strategic costing information should be an essential component of SMAID disclosures for firms. Regulatory bodies should encourage companies to disclose strategic costing information to promote better SMAID practices. Regulatory bodies could also provide guidelines for firms on how to disclose strategic costing information effectively. By promoting the disclosure of strategic costing information, regulatory bodies can improve the quality of SMAID disclosures and help companies make better strategic decisions.

4.1.6.5. Effect of Past Strategic Decision-Making Information Disclosures on Current Aggregate SMAID

The regression results demonstrate a non-significant positive effect of past strategic decision-making information disclosures on the current aggregate SMAID of firms listed on the GSE ($\beta_{LDP,1,3} = .0237813$; p > 0.05; $\beta_{FLS,1,3} = .0300908$; p > 0.05; $\beta_{RE,1,3} = .0300908$; p > 0.05; $\beta_{RE,1,3} = .0300908$; p < 0.05). (See tables 1, 3 & 4 in the Appendix). Contingent to this result, the fifth hypothesis, *Hf5: Past Strategic Decision Information Disclosure Exerts a Significant Positive or Negative Effect on Current Strategic Management Accounting Information Disclosure*, is partly confirmed.

Previous studies have shown mixed results on the impact of strategic decision-making information on SMAID. Chen and Roberts (2010) found that strategic decision-making information had a significant impact on SMAID. However, studies by Chong and Eggleton (2012) and Subramaniam et al. (2012) found no significant relationship between strategic decision-making information and SMAID.

GSE-listed companies need to consider the timing and relevance of strategic decision-making information disclosure. Although the study found a non-significant positive effect on current aggregate SMAID, organizations should still consider disclosing relevant strategic decision-making information to improve their decision-making and enhance performance. Organizations should also evaluate the effectiveness of their disclosure policies and assess the impact of their past disclosures on current SMAID. Regulators should consider the impact of strategic decision-making information disclosure on SMAID. The study's findings suggest that the impact of past strategic decision-making information disclosure on current SMAID is non-significant. However, regulators should still encourage organizations to disclose relevant strategic decision-making information to enhance transparency, accountability, and decision-making. Regulators should also guide the timing and relevance of strategic decision-making information disclosure.

4.1.6.6. Effect of Past Strategic Planning, Control, and Performance Measurement Information Disclosures on Current Aggregate SMAID

The regression fallouts demonstrate a positive but statistically insignificant influence of past strategic planning, control, and performance measurement (SPCPML1) ($\beta_{LDP,1,5} = .0078973$; p > 0.05; $\beta_{FLS,1,5} = .0475917$; p > 0.05; $\beta_{RE,1,5} = .0475917$; p > 0.05) (See tables 1, 3 & 4 in the Appendix). Based on this outcome, the hypothesis, *Hf6: Past Strategic Planning, Control, and Performance Measurement Information Disclosures Exert a Significant Positive or Negative Effect on Current Strategic Management Accounting Information Disclosure*, is partially confirmed.

Chong and Eggleton (2012) found a positive and significant relationship between strategic planning information disclosure and SMAID. Similarly, Subramaniam et al. (2012) found a significant relationship between performance measurement information disclosure and SMAID. However, the present study found that the effect of past strategic planning, control, and performance measurement information disclosures on current aggregate SMAID is positive but statistically insignificant. Hence, this study's outcome is a positively minuscule bearing of past strategic planning, control, and performance measurement information disclosure and present aggregate SMAID. This, therefore, fills the empirical lacuna in this area of research.

The present study's finding suggests that disclosure of past strategic planning, control, and performance measurement information has limited practical implications for current SMAID. Managers can still benefit from disclosing this information for transparency and accountability, but they should not expect a significant impact on the current SMAID. Therefore, managers should focus on other strategies to improve their SMAID, such as increasing the accuracy and relevance of disclosed information, providing timely updates, and improving communication channels. The above findings have policy implications for GSE-listed companies, auditors, and regulators. Companies quoted on the GSE should consider the limited impact of past strategic planning, control, and performance measurement information disclosure on current SMAID when formulating disclosure policies.

4.1.7. Effects of Corporate Social Performance and Financial Performance Indicators on SMAID

The seventh objective of the study was to establish the consequences of corporate social performance and the financial performance indicators of ROA and ROE on strategic management accounting information disclosures.

4.1.7.1. Effect of Corporate Social Performance on SMAID

The effect of corporate social performance information disclosure level on present aggregate SMAID is positively insignificant for the current period ($\beta_{LDP,2,11} = -.0008682$; p>0.05; ($\beta_{FLS,2,11} = .034879$; p>0.05; $\beta_{RE,2,11} = .034879$; p>0.05) and negatively non-substantial for the previous year at the 95% confidence level ($\beta_{LDP,2,11} = -.0011549$; p>0.05; ($\beta_{FLS,2,11} = -.0350361$; p>0.05; ($\beta_{RE,2,11} = -.0350361$; p>0.05) (See tables 1, 3 & 4 in the Appendix). Depending on the above result, hypothesis *Hg1: Corporate Social Performance Has a Significant Positive Effect on Strategic Management Accounting Information Disclosure* is partially confirmed for the current period and fully rejected for the previous period.

Previous studies have explored the relationship between corporate social performance (CSP) and financial performance (Margolis & Walsh, 2003; Orlitzky et al., 2003) and have suggested that CSP can have a positive impact on

financial performance. However, the relationship between CSP and SMAID has received less attention. Some studies suggest that CSP can have a positive effect on SMAID (Adeyemi et al., 2017; Mirza & Zaman, 2019), while others have found no significant relationship (Huang et al., 2015; Ahmad et al., 2021). The present study adds to this literature by providing new insights into the effect of CSP on SMAID. Although the effect of CSP on SMAID was found to be insignificant for the current period, the negative effect found for the previous year suggests that firms need to be careful in their CSP reporting. This is particularly important given the increasing importance of CSP to stakeholders. Firms that engage in socially responsible practices need to ensure that their reporting is accurate and reliable, as inaccurate or misleading information can damage their reputation and lead to legal and regulatory consequences. Regulators and standard-setting bodies need to ensure that reporting requirements for CSP are clear and consistent to facilitate accurate and reliable reporting. Moreover, policymakers need to consider the impact of CSP reporting on SMAID, as firms may be incentivized to engage in CSP reporting for strategic reasons rather than a genuine commitment to social responsibility.

4.1.7.2. Effect of ROA and ROE on SMAID

The effect of both the present period's ROA ($\beta_{LDP,2,3} = -.0463033$; p>0.05; $\beta_{RE,2,3} = -.0500542$; p>0.05; $\beta_{FLS,2,3} = -.0500542$; p<0.10) and the previous year's ROA ($\beta_{LDP,2,3} = -.0239728$; p>0.05; $\beta_{FLS,2,3} = -.0379493$; p>0.05; $\beta_{RE,2,3} = -.0379493$; p>0.05) on present aggregate SMAID are negatively non-substantial at the 95% confidence level (See tables 1, 3 & 4 in the Appendix). Owing to the above finding, hypothesis, *Hg2: ROA Has a Significant Positive Effect on SMAID*, is fully rejected for both previous and past years.

Conversely, the effect of ROE on present aggregate SMAID is negatively non-substantial for the current period's ROE and positively insignificant for the previous year's ROE ($\beta_{LDP,2,4} = -.0038985$; p<0.10; $\beta_{FLS,2,4} = -.0022118$; p>0.05; $\beta_{RE,2,4} = -.0022118$; p>0.05) and positively insignificant for the previous year's ROE ($\beta_{LDP,2,4} = .0039426$; p<0.10; $\beta_{FLS,2,4} = 0019892$; p>0.05; $\beta_{RE,2,4} = .0019892$; p>0.05) at the 95% confidence level. (See tables 1, 3 & 4 in the Appendix). Contingent to the above result, hypothesis *Hg3: ROE Has a Significant Positive Effect on Strategic Management Accounting Information Disclosure* is partially confirmed for the previous year and fully rejected for the current period.

Margolis and Walsh (2003) found that firms with higher financial performance tend to disclose less SMAID. Orlitzky et al. (2003) also found a negative relationship between financial performance and environmental performance disclosure. However, other studies have reported positive relationships between financial performance and SMAID (Adeyemi et al., 2017; Mirza & Zaman, 2019). The inconsistent results could be attributed to methodological differences, sample size, and context.

Managers need to be aware that higher financial performance does not necessarily lead to increased SMAID. Instead, they should focus on providing relevant and reliable information that meets stakeholders' needs. Investors and other stakeholders should not rely solely on financial performance indicators to assess the quality of the company's SMAID. They should also consider other factors, such as the quality of disclosures and the company's commitment to social responsibility. Regulators should encourage companies to provide more relevant and reliable information through mandatory disclosure requirements. Policymakers should also consider the role of financial performance indicators in promoting SMAID and whether they should be used as a basis for incentives or penalties.

4.1.8. Effects of Firm-Specific Variables on SMAID

The eighth objective of the study was to analyze the impressions of the firm-specific variables of firm size, assetsin-place, leverage, liquidity, sales growth, and tax payment decisions on MAID.

4.1.8.1. Effect of Firm Size on SMAID

Accordingly, we deduce that the true effect of firm size on present aggregate SMAID is mixed, with the previous year's size exerting an insignificant positive effect ($\beta_{LDP,2,5} = -.0001889$; p>0.05; $\beta_{FLS,2,5} = .0018147$; p>0.05; $\beta_{RE,2,5} = .0018147$; p>0.05) and the current year's size expressing a non-substantial negative impact ($\beta_{LDP,2,5} = -.0001246$; p>0.05; $\beta_{FLS,2,5} = -.0018293$; p>0.05; $\beta_{RE,2,5} = -.0018293$; p>0.05). (See tables 1, 3 & 4 in the Appendix). Owing to the above result, hypothesis *Hh1: Firm Size Has a Significant Positive Effect on Strategic Management Accounting Disclosure* is partially confirmed for the previous year and rejected for the current year.

This study's results of a positively non-substantial influence of the previous year's firm size on SMAID partly agree with Karim, Pinsker, and Robin (2013). Their study revealed that there was a positive link between SMAID and firm size. Their findings completely disagree with the current study's result, which demonstrates a non-substantial negative impact of the current year's firm size on the present aggregate SMAID. In another study, Uyar, Kilic, and Bayyurt (2013) investigated the factors that impact voluntary information disclosure levels of Turkish manufacturing companies listed in the Istanbul Stock Exchange (ISE). The study findings revealed that firm size had a direct relationship with strategic management accounting information disclosures. This study's result partially agrees with the current study's finding of an immaterial positive link between the previous year's firm size and SMAID. This study's outcome of an insignificant positive effect of the previous year's firm size on SMAID partially agrees with Thinh (2021), who researched the impact of firm characteristics on voluntary disclosure. The findings revealed a positive correlation between firm size and strategic management accounting disclosures. Nonetheless, the findings of Thinh (2021), which state a positive association between firm size and SMAID, fully disagree with this study's finding of a negative non-substantial bearing of the current year's firm size on SMIAD.

Managers should be aware that the effect of firm size on SMAID may vary depending on the period considered. Therefore, they need to assess the appropriateness of their disclosure policies and practices periodically. Policymakers should consider the potential impact of firm size on SMAID when developing regulations and guidelines aimed at improving corporate disclosure practices. The findings suggest that regulators need to be cautious when designing disclosure regulations that are based solely on firm size. Instead, they should consider other factors that may influence SMAID, such as industry, ownership structure, and corporate governance mechanisms.

4.1.8.2. Effect of Assets-in-place on SMAID

The effect of assets-in-place on present aggregate SMAID is negatively non-substantial for both the previous period's assets-in-place ($\beta_{LDP,2,9} = -.0161347$; p<0.10; $\beta_{FLS,2,9} = -.0103605$; p>0.05; $\beta_{RE,2,9} = -.0103605$; p>0.05) and current year's assets-in-place at the 95% confidence level ($\beta_{LDP,2,9} = -.0123118$; p>0.05; $\beta_{FLS,2,9} = -.0015645$; p>0.05) (See tables 1, 3 & 4 in the Appendix). Contingent on this outcome hypothesis *Hh2: Assets-In-Place Has a Significant Negative Effect on Strategic Management Accounting Information Disclosure* is partially confirmed for both the previous year and the current year.

This study's outcome of a negative non-substantial influence of assets-in-place for both previous and current years' on SMAID partially agrees with Feyitimi (2014), whose study revealed that assets-in-place hurt strategic management accounting information disclosures. Moreover, the negative effect of assets-in-place on SMAID reported in this study is consistent with previous research. Linsley and Shrives (2006) found that firms with higher levels of tangible assets are less likely to disclose SMAID. Furthermore, Albu et al. (2015) observed that companies with high fixed assets tend to disclose less SMAID. These findings suggest that the level of assets-in-place has a negative impact on the extent of SMAID disclosure.

Managers must understand that a high level of assets-in-place may not necessarily reflect the company's financial performance. Therefore, they should provide sufficient SMAID to communicate the company's performance accurately to stakeholders. Conversely, stakeholders should not solely rely on the level of assets-in-place when evaluating the financial performance of a company. They should seek more SMAIDs to make informed decisions. Regulators should consider the level of assets-in-place when setting disclosure requirements for firms. They should ensure that firms with high levels of assets-in-place provide sufficient SMAID to enable stakeholders to make informed decisions. This approach will enhance the transparency and accountability of firms and promote the efficient allocation of resources.

4.1.8.3. Effect of Leverage on SMAID

The effect of firm leverage on present aggregate SMAID is positively insignificant for the current firm leverage ($\beta_{LDP,2,6} = .000154$; p>0.05; $\beta_{FLS,2,6} = .0000624$; p>0.05; $\beta_{RE,2,6} = .0000624$; p>0.05) and negatively non-substantial for the previous year's firm leverage at 95% confidence level ($\beta_{LDP,2,6} = -.0001027$; p>0.05; $\beta_{FLS,2,6} = -.0001401$; p>0.05; $\beta_{RE,2,6} = -.0001401$; p>0.05). (See tables 1, 3, & 4 in the Appendix). Depending on the above result, *hypothesis Hh3: Leverage Exerts a Significant Positive or Negative Effect on Strategic Management Accounting Information Disclosure* is partially confirmed for both the current year and the previous year.

Several studies have investigated the relationship between leverage and SMAID, and the findings have been mixed. For example, Ghozali et al. (2018) found that leverage has a positive effect on SMAID, while Elsayed et al. (2019) found that leverage hurts SMAID. This suggests that the relationship between leverage and SMAID is complex and requires further investigation. Moreover, this study's finding of an adverse irrelevant bearing of the previous year's leverage on SMAID partly agrees with some previous studies (e.g., Zarzeski, 1996; Abd-Elsalam & Weetman, 2003) which support a negative relationship between the level of debt and disclosure practices. Besides, others (e.g., Wang et al., 2008; Allegrini & Greco, 2011) who also predict a positive relation between debt and voluntary disclosure show a partial agreement with this study's outcome of a beneficial non-substantial influence between firm leverage for the current period on SMAID.

For managers, the study suggests that leverage should not be considered a significant factor in determining the level of SMAID. Instead, they should focus on other factors such as firm size, industry, and profitability. For investors, the study suggests that they should not rely solely on leverage to assess the level of SMAID in a firm. Instead, they should consider other factors such as transparency, accountability, and governance. For regulators, the study suggests that they should not impose strict regulations on the level of SMAID based on leverage. Instead, they should consider other factors, such as the nature of the industry and the level of competition. The study suggests that leverage should not be used as the sole determinant for imposing regulations on SMAID. Instead, policymakers and regulators should consider other factors, such as the nature of the industry and the level of competition.

4.1.8.4. Effect of Liquidity on SMAID

The effect of firm liquidity on present aggregate SMAID is negatively non-substantial for both the previous year's firm liquidity level ($\beta_{LDP,2,7} = .0004467$; p>0.05; $\beta_{FLS,2,7} = -.0000869$; p>0.05; $\beta_{RE,2,7} = -.0000869$; p>0.05) and the current year's firm liquidity level at the 95% confidence level ($\beta_{LDP,2,7} = -.0004037$; p>0.05; $\beta_{FLS,2,7} = -.0002045$; p>0.05) (See tables 1, 3 & 4 in the Appendix). Contingent to the above result, hypothesis *Hh4: Liquidity has a Significant Positive or Negative Correlation with Strategic Management Accounting Disclosure* is partly confirmed for both the current year and the previous year.

Previous studies have examined the relationship between liquidity and SMAID. Rahaman et al. (2019) found a positive relationship between liquidity and SMAID in Bangladesh. Similarly, Okafor and Ezejiofor (2021) found a positive relationship between liquidity and SMAID in Nigeria. However, the current research contradicts these findings and suggests that the effect of liquidity on SMAID may be minimal. Moreover, this study's result of an adversely immaterial effect between liquidity for both the current year and the previous year partly agrees with Barako et al. (2006) as they

investigated the extent to which corporate governance attributes, ownership structure, and company characteristics influence voluntary disclosure practices. The findings revealed a negative correlation between liquidity and strategic management accounting information disclosures.

The study's findings have practical implications for firms and their managers. Managers need to be aware that the level of SMAID may not be significantly affected by their liquidity level. This implies that they may need to focus on other factors that affect SMAID, such as the level of competition in their industry or the level of stakeholder pressure. Secondly, managers may need to consider other strategies to improve their liquidity rather than focusing solely on SMAID. The findings suggest that policies aimed at improving the level of SMAID may not have a significant impact on the liquidity level of firms. Therefore, policymakers may need to consider other factors that affect liquidity when designing regulations aimed at improving the financial health of firms.

4.1.8.5. Effect of Sales Growth on SMAID

The effect of sales growth on present aggregate SMAID is negatively non-substantial for both the previous year's sales growth ($\beta_{2,8} = .0025922$; p>0.05; $\beta_{2,8} = -.000869$; p>0.05; $\beta_{2,8} = -.0004739$; p>0.05) and current year's sales growth ($\beta_{2,8} = .0000721$; p>0.05; $\beta_{2,7} = .0008982$; p>0.05; $\beta_{2,8} = .0008982$; p>0.05) at the 95% confidence level (See tables 1, 3 & 4 in the Appendix). Reliant on the above, hypothesis *Hh5: Sales Growth Exerts Significant Positive or Negative Effects on Strategic Management Accounting Information Disclosure* is partially confirmed for the current year and the previous year.

The findings of this study are consistent with some previous studies. Chen and Roberts (2010) found that the relationship between sales growth and SMAID is not significant, while Lu and Su (2016) found that sales growth has a negative effect on SMAID. However, some studies have found a positive relationship between sales growth and SMAID. For instance, Cheng et al. (2014) found that sales growth has a positive effect on SMAID. These conflicting results suggest that there is a need for further research to clarify the relationship between sales growth and SMAID.

Managers need to understand that increasing sales growth does not necessarily lead to an increase in SMAID. This means that managers should not focus solely on sales growth but also on other factors that may influence SMAID. Managers should consider the needs of stakeholders and the potential risks associated with their decisions when deciding what information to disclose. The above results of this study also have implications for policymakers. Policymakers should encourage firms to disclose more information to stakeholders, especially when they are experiencing high levels of sales growth. This can help to mitigate the negative effects of sales growth on SMAID. In addition, policymakers should consider developing regulations to ensure that firms disclose relevant information to stakeholders.

4.1.8.6. Effect of Tax Payment Decisions on SMAID

The true effect of tax payment decisions on present aggregate SMAID is negatively non-substantial for the current year's tax payment decision ($\beta_{LDP,2,10} = -.0173849$; p>0.05; $\beta_{FLS,2,10} = -.0061334$; p>0.05; $\beta_{RE,2,10} = -.0061334$; p<0.10) and negatively significant for the previous year's tax payment decision at the 95% confidence level ($\beta_{LDP,2,10} = -.0102488$; p>0.05; $\beta_{FLS,2,10} = -.0065687$; p<0.10; $\beta_{RE,2,10} = -.0065687$; p<0.10) (See tables 1, 3 & 4 in the Appendix). Based on the above results, the hypothesis *Hh6: Tax Payment Decisions Exert a Significant Positive or Negative Effect on Present Strategic Management Accounting Information Disclosure* is partially confirmed.

Previous research has explored the relationship between tax payment decisions and corporate disclosures. For example, Li et al. (2020) found that firms with higher tax aggressiveness tend to have lower disclosure quality. Similarly, Mcgee et al. (2017) found that firms with a history of tax avoidance tend to provide less transparent disclosures. Our study contributes to this literature by examining the impact of tax payment decisions specifically on SMAID.

The above findings of this study have practical implications for firms and managers. Specifically, managers should be aware that their tax payment decisions may have a negative impact on SMAID. This is particularly important for firms that are concerned with maintaining a positive reputation and building trust with stakeholders, as disclosure of relevant information is crucial for building such relationships. Policymakers may need to consider the potential negative impact of tax payment decisions on SMAID when designing tax policies and regulations. Policymakers can promote transparency and build trust with stakeholders by incentivizing firms to disclose relevant information regarding their tax payment decisions.

4.1.9. Influences of External Macroeconomic Dynamics on SMAID

The ninth and final objective of this study was to examine the specific impacts of external macroeconomic dynamics (inflation rates, interest rates, money supply, and gross domestic product) on SMAID.

4.1.9.1. Effects of Inflation Rates on SMAID

Because the current year's inflation was eliminated from the dynamic panel, the influence of present inflation rates on the present aggregate SMAID¹ could not be ascertained. However, conjoin results lead us to conclude that the effect of inflation rates on present aggregate SMAID is negatively non-substantial for both the current period's inflation rates ($\beta_{FLS,2,12} = -.0052577$; p>0.05; $\beta_{RE,2,12} = -.0052577$; p>0.05) and the previous year's inflation rates at the 95% confidence level ($\beta_{LDP,2,12} = -.0034658$; p>0.05; $\beta_{FLS,2,12} = -.0033967$; p>0.05; $\beta_{RE,2,12} = -.0033967$; p>0.10). (See tables 1, 3 & 4 in the Appendix). Based on the outcome mentioned above, hypothesis *H1i: Inflation Rates Exert a Significant Positive or Negative Effect on Strategic Management Accounting Information Disclosure* is partially confirmed.

¹ Current year inflation (INFRL0) was eliminated from the dynamic panel model due to collinearity hence there was not STATA output.

This current study's findings are consistent with some previous research studies. A study by Fathi and Yousefikhah (2015) investigated the impact of inflation on the quality of financial reporting. The study found that inflation does not significantly affect the quality of financial reporting. Similarly, a study by Al-Asqah and Al-Sharairi (2018) examined the effect of inflation on financial performance. The study found that inflation has a non-significant impact on financial performance.

The above findings have practical implications for businesses, particularly those operating in high-inflation economies. The results suggest that inflation rates do not significantly affect SMAID. Businesses should not base their strategic decision-making solely on inflation rates. Instead, businesses should consider other factors, such as market trends, consumer preferences, and technological advancements. Governments and regulatory bodies should focus on other factors that affect SMAID, such as tax policies, environmental regulations, and labor laws.

4.1.9.2. Effects of Interest Rates on SMAID

The true effect of interest rates on present aggregate SMAID is positively non-substantial for both the current year's interest rates ($\beta_{LDP,2,13} = -.0017379$; p>0.05; $\beta_{FLS,2,13} = .0016375$; p>0.05; $\beta_{RE,2,13} = .0016375$; p>0.05) and the previous year's interest rates at the 95% confidence level ($\beta_{LDP,2,13} = .0045662$; p>0.05; $\beta_{FLS,2,13} = .0057008$; p>0.05). (See tables 1, 3 & 4 in the Appendix). Based on this outcome, hypothesis *H12: Interest Rate Exerts Significant Positive or Negative Effects on Strategic Management Accounting Information Disclosure* is partly confirmed for both the current year and the previous year.

Previous research has also examined the effect of interest rates on accounting information. A study by Basu and Waymire (2006) found that changes in interest rates have a significant effect on the value relevance of earnings. Similarly, a study by Shijin et al. (2020) found that changes in interest rates affect the financial performance of firms in the Chinese banking sector. These findings are consistent with the current study, which also found a relationship between interest rates and accounting information.

Managers should make informed decisions about when to disclose accounting information to stakeholders. If interest rates are high, managers may want to disclose information earlier to take advantage of favourable market conditions. Investors can also use the information to make informed decisions about when to invest in a company. If a company has a history of disclosing accounting information when interest rates are low, investors may want to invest in the company during those periods. Regulators (e.g., SEC of Ghana) should develop policies that encourage companies to disclose accounting information promptly by providing incentives for companies to disclose information when interest rates are low to ensure that investors have access to timely and accurate information.

4.1.9.3. Effects of Money Supply on SMAID

The effect of money on present aggregate SMAID is positively non-substantial for the current year's money supply ($\beta_{LDP,2,14} = .0036754$; p>0.05; $\beta_{FLS,2,14} = .0000757$; p>0.05; $\beta_{RE,2,14} = .0000757$; p>0.05) and negatively insignificant for the previous year's money supply at the 95% confidence level ($\beta_{LDP,2,14} = -.0024683$; p>0.05; $\beta_{FLS,2,14} = -.0029486$; p>0.05; $\beta_{RE,2,14} = -.0029486$; p>0.05) (See tables 1, 3 & 4 in the Appendix). Contingent on this result, hypothesis *H13: Money Supply Exerts a Significant Positive or Negative Effect on Strategic Management Accounting Information Disclosure* is partially confirmed for both the current year and the previous year.

There is a scarcity of previous empirical works on this subject. Therefore, this study's outcome that the effect of money supply on present aggregate SMAID is positively non-substantial for the current year's money supply and negatively insignificant for the previous year's money supply contributes to the empirical literature.

The study suggests that firms need to pay attention to the money supply and its impact on SMAID. Firms should consider the effect of the current year's money supply when disclosing financial information to stakeholders. Managers need to be aware of the impact of money supply on SMAID when making financial decisions. The study's findings suggest that the previous year's money supply does not significantly affect SMAID, indicating that firms should focus more on current money supply levels. Policymakers need to consider the impact of macroeconomic variables on firms' financial reporting practices. Regulators need to provide clear guidelines on the disclosure of financial information under different macroeconomic conditions.

4.1.9.4. Effects of Gross Domestic Product on SMAID

Due to the problem of perfect collinearity, the dynamic panel model, FLS estimation, and random effects algorithm could not compute the effect of the past gross domestic product on the present aggregate SMAID². Consequently, it is concluded that the effect of gross domestic product (GDPL0) on present aggregate SMAID is negatively non-substantial for the current year's GDP ($\beta_{LDP,2,15} = -.00088$; p>0.05; $\beta_{FLS,2,15} = -.0018236$; p>0.05; $\beta_{RE,2,15} = -.0018236$; p>0.05). (See tables 1, 3 & 4 in the Appendix). Contingent on this result, hypothesis *H14: GDP Exerts a Significant Positive or Negative Effect on Strategic Management Accounting Information Disclosure* is partially confirmed for the current year.

Previous studies have shown mixed results on the impact of GDP on SMAID. Basu and Waymire (2006) found that GDP has a positive impact on SMAID, while Fathi and Yousefikhah (2015) found that GDP hurts SMAID. Therefore, the findings of this study add to the existing literature by showing that the effect of GDP on SMAID is insignificant for the current year.

² Figures for previous year's Gross Domestic Product (GDPL1) were eliminated from the analysis due to collinearity.

Practically, this finding suggests that organizations need not prioritize GDP as a factor that affects SMAID in the current year. However, it is essential to note that GDP is a critical indicator of a country's economic performance and may have an impact on SMAID in the long run. Therefore, organizations should monitor the GDP trend and adjust their SMAID disclosure strategy accordingly. From a policy perspective, governments can leverage this finding to encourage organizations to disclose relevant SMAID information. Governments can promote policies that encourage organizations to disclose non-financial information that may be relevant to stakeholders. For instance, policies that promote environmental sustainability reporting or social responsibility reporting can improve the relevance and usefulness of SMAID information to stakeholders.

5. Conclusions, Limitations, and Recommendations

The findings discovered from this study support our conclusion that the determinants of strategic management accounting information disclosure are multi-theoretic in nature. This must be acknowledged and factored into decision-making. Since information disclosure and its availability enhances effective decision-making, the multi-theoretic nature of information disclosure determinants must be acknowledged and factored into management decision-making. While some theoretical factors have a positive influence on information disclosure, others influence the disclosure negatively. Also, it has been discovered that some determinants exhibit a negative influence for their lags even though their effect on the current year suggests a positive one. This suggests a non-linear nature of the relationship. This study did not comprehensively study the non-linearity relationships of the variables. Future studies must utilise non-linear analytical tools to assess the effect of influence. Based on the limitations of this study, it is recommended that future research should:

- Investigate the moderating effects of industry type on the relationship between the determinants of strategic management accounting information disclosures and the level of disclosures.
- Examine the effect of CEO turnover on strategic management accounting information disclosures and how it interacts with other determinants such as board composition and ownership structure.
- Conduct a comparative analysis of strategic management accounting information disclosures between firms listed on the Ghana Stock Exchange and those listed on other stock exchanges in Africa or around the world.
- Investigate the effect of regulatory changes and reforms on strategic management accounting information disclosures among Ghana Stock Exchange-listed firms.
- Conduct a longitudinal study to examine how the level of strategic management accounting information disclosures among Ghana Stock Exchange-listed firms has changed over time.
- Explore the role of cultural and societal factors in shaping the determinants of strategic management accounting information disclosures among Ghana Stock Exchange-listed firms.
- Investigate the effect of the level of strategic management accounting information disclosures on firm value and how this varies across different ownership structures, industry types, and firm sizes.
- Examine the impact of environmental, social, and governance (ESG) factors on the determinants of strategic management accounting information disclosures among Ghana Stock Exchange-listed firms.
- Investigate the effect of technological innovation and digitization on strategic management accounting information disclosures among Ghana Stock Exchange-listed firms.

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Dynamic panel-data estimation Number of obs = 250								
Group variable: id		Number of g	roups =	33				
Time variable: Year	Time variable: YearObs per group; $min = 2$ $avg = 7.575758$ $max = 8$							
Number of instruments	= 213	Wald chi2(3	2) = 515	7.93				
Prob > chi2 = 0.00	00							
One-step results (Std. Err. adjusted for clustering on id)								
		Robust						
SMAID	Coef.	Std. Err.	Z	P> z	[95% Cont	f. Interval]		
SMAID								
L2.	.3260404	.0547381	5.96	0.000*	.2187557	.4333251		
COMPETACCT								
L1.	.0446505	.0402188	1.11	0.267	0341769	.1234779		
CUSTOMACCT								
L1.	.1112756	.0420751	2.64	0.008*	.0288098	.1937413		
STRATDECIMAKING								
L1.	.0237813	.0403955	0.59	0.556	0553924	.1029551		
STRATCOSTING								
L1.	.136033	.0953016	1.43	0.153	0507548	.3228208		
SPCPM								
L1.	.0078973	.0437831	0.18	0.857	0779159	.0937105		
CGDI								
LO	.035763	.3360737	0.11	0.915	6229293	.6944553		
L1.	.0088115	.3494975	0.03	0.980	6761909	.6938139		
SCID								
LO	.0892429	.0525797	1.70	0.090**	0138113	.1922972		
L1.	.0286546	.0262012	1.09	0.274	0226988	.0800081		
ROA								
LO	0463033	.0339245	-1.36	0.172	1127942	.0201875		
L1.	0239728	.029314	-0.82	0.413	0814271	.0334816		
ROE								
LO	0038985	.0022875	-1.70	0.088**	0083819	.0005849		
L1.	.0039426	.0022198	1.78	0.076**	0004081	.0082933		
SIZE								
LO	0001246	.0018155	-0.07	0.945	0036828	.0034337		
L1.	0001889	.0018843	-0.10	0.920	0038821	.0035042		
LEV			0.10	0.720				
L0	.000154	.0002738	0.56	0.574	0003825	.0006906		
L1.	0001027	.0001264	-0.81	0.416	0003504	.000145		
LIO			0.01	0.120				
L0	0004037	.0011619	-0.35	0.728	002681	.0018737		
 I 1	0004467	.0007255	0.62	0.538	0009752	.0018686		

Appendix

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SALESGROWTH						
LO	.0000721	.0047306	0.02	0.988	0091997	.0093438
L1.	.0025922	.0022754	1.14	0.255	0018676	.0070519
ASSETSINPLACE						
LO	0123118	.0136361	-0.90	0.367	0390382	.0144145
L1.	0161347	.0091483	-1.76	0.078**	034065	.0017957
TAX						
LO	0173849	.0166598	-1.04	0.297	0500375	.0152676
L1.	0102488	.0086484	-1.19	0.236	0271994	.0067017
CSRINDEX						
LO	0008682	.0378654	-0.02	0.982	0750829	.0733466
L1.	0011549	.0374151	-0.03	0.975	0744872	.0721773
INFR						
L1.	0034658	.0040989	-0.85	0.398	0114996	.0045679
INTR			0.00	0.070	.0117770	10010075
LO	0017379	.00204	-0.85	0.394	0057361	.0022604
L1.	.0045662	.0042771	1.07	0.286	0038168	.0129493
MS			/			
LO	.0036754	.0024975	1.47	0.141	0012195	.0085704
L1.	0024683	.0027835	-0.89	0.375	0079239	.0029874
GDP(L0)	00088	.0006611	-1.33	0.183	0021758	.0004158
DIV			1.00	01200		10001100
LO	0158174	0084223	1 88	0.060**	- 00069	0323248
L1	0004916	0082759	0.06	0.953	- 0157288	016712
CEODUAL	.0001910	.0002733	0.00	0.955	.0157200	.010/12
LO	- 0150787	0297852	-0.51	0.613	- 0734567	0432993
L1	0192735	0155288	1 24	0.015	- 0111623	0497093
	.0172755	.0135200	1.2 1	0.215	.0111025	.0177075
IO	0013037	0051131	0.25	0 799	- 0087177	0113252
I1	0056509	0050661	1 1 2	0.265	- 0042785	0155803
	.0030307	.0050001	1.12	0.203	.0012703	.0135005
LO	- 0006036	0468972	-0.01	0 9 9 0	- 0925203	0913132
L1	- 0612486	0476839	-1 28	0.199	- 1547073	03221
BSIZE	.0012100	.0170007	1.20	0.177	.151/0/5	.05221
LO	0008987	002047	0.44	0.661	- 0031133	0049108
L1	- 0008418	0018378	-0.46	0.647	- 0044439	0027603
BFREOMEET	10000110	10010070	0.10	01017	10011107	1002/000
LO	0025075	0011829	2.12	0.034*	000189	004826
L1	- 004318	0007986	-5 41	0.000*	- 0058832	- 0027528
BSUBCOMTTE	.001510	.0007.900	5.11	0.000	.0030032	.0027520
LO	1410522	0635773	2.22	0.027*	016443	2656614
L1	- 1032271	0518574	-1 99	0.047*	- 2048657	- 0015885
DIRECTOROWNER	.1052271	.0510571	1.77	0.017	.2010037	.0015005
LO	- 0075031	0162387	-0.46	0.644	- 0393303	0243242
L1	0203289	0186731	1 09	0.276	- 0162697	0569275
GOVTOWNER	.0203203	.0100751	1.0 9	0.270	.0102077	.0007275
LO	0476344	0514237	0.93	0 354	- 0531542	1484229
L1	- 0666641	0474487	-1 40	0.160	- 1596619	0263336
INSTIOWNER			2.10	0.200		
LO	0651328	0211136	3.08	0.002*	0237509	1065147
I.1	0050915	.0256635	-0.20	0.843	055391	.045208
BLOCKOWNER		10200000	0.20	0.010		10 10 200
LO	0484819	.0296032	-1 64	0 1 0 1	1065031	.0095393
I.1	.0148461	.0355133	0.42	0.676	0547587	.0844509
AUDITFIRMSIZE		10000100	0.14	0.070		10011007
LO	0065903	0200927	0 33	0 743	- 0327906	0459713
I.1	- 0009585	0191805	-0.05	0.960	- 0385516	0366346
AUDITCMTFF	.0007505	.01/1005	0.00	0.900	.0000010	.0000010
LU	- 1360019	0626654	-217	0.030*	- 2588239	- 01318
I.1	0927605	0644085	1 44	0.050	- 0334779	218999
<u>лт.</u>	.0727005	.0011005	1.77	0.130	.0337777	.210777

REMUCMTEE						
LO	.012907	.0309705	0.42	0.677	0477941	.0736082
L1.	.0122407	.0289062	0.42	0.672	0444145	.0688959
_cons	.0759351	.1291916	0.59	0.557	1772758	.329146

Table 1: Linear Dynamic Panel-Data Estimation

(Estimation Results on Determinants of Strategic Management Accounting Information Disclosure) Note: note: L2.SMAID dropped from dgmmiv() because of collinearity; LD.SMAID dropped from lgmmiv() because of collinearity. Also, L.SMAID, INFR, and LD.GDP dropped because of collinearity.

Instruments for differenced equation: GMM-type: L(2/.).LD.STRATDECIMAKING L(2/.).LD.COMPETACCT L(2/.).L.COMPETACCT L(2/.).LD.STRATDECIMAKING L(2/.).L.STRATDECIMAKING L(2/.).LD.STRATCOSTING L(2/.).LD.STRATCOSTING L(2/.).LD.SPCPM L(2/.).L.SPCPM L(2/.).LD.SCID L(2/.).L.SCID L(2/.).LD.CGDI L(2/.).L.CGDI Instruments for the level equation: GMM-type: L2D.COMPETACCT L2D.CUSTOMACCT L2D.STRATDECIMAKING L2D.STRATCOSTING Instruments for the level equation: GMM-type: L2D.COMPETACCT L2D.CUSTOMACCT L2D.STRATDECIMAKING L2D.STRATCOSTING Instruments for the level equation: GMM-type: L2D.COMPETACCT L2D.CUSTOMACCT L2D.STRATDECIMAKING L2D.STRATCOSTING Instruments for the level equation: GMM-type: L2D.COMPETACCT L2D.CUSTOMACCT L2D.STRATDECIMAKING L2D.STRATCOSTING Instruments for the level equation: GMM-type: L2D.COMPETACCT L2D.CUSTOMACCT L2D.STRATDECIMAKING L2D.STRATCOSTING Instruments for the level equation: GMM-type: L2D.COMPETACCT L2D.CUSTOMACCT L2D.STRATDECIMAKING L2D.STRATCOSTING Instruments for the level equation: GMM-type: L2D.COMPETACCT L2D.CUSTOMACCT L2D.STRATDECIMAKING L2D.STRATCOSTING Instruments for the level equation: GMM-type: L2D.COMPETACCT L2D.CUSTOMACCT L2D.STRATDECIMAKING L2D.STRATCOSTING Instruments for the level equation: GMM-type: L2D.COMPETACCT L2D.CUSTOMACCT L2D.STRATDECIMAKING L2D.STRATCOSTING Instruments for the level equation: GMM-type: L2D.COMPETACCT L2D.CUSTOMACCT L2D.STRATDECIMAKING L2D.STRATCOSTING Instruments for the level equation: GMM-type: L2

L2D.SPCPM L2D.SCID L2D.CGDI

Standard: _cons*P-values are significant at 1% and 5% levels. **P-values significant at 10% level.

Order	Z	Prob>z
1	-2.8875	0.0039*
2	0.94627	0.3440

Table 2: Arellano-Bond Test for Zero Autocorrelation in First-Differences Errors Strategic Management Accounting Corporate Information Disclosure Dynamic Panel-Data Regression H_0: No autocorrelation

P-values are significant at 1% and 5% and 10% level

Coefficients: generalized least squares						
Panels: homosked	astic					
Correlation: no autoo	correlation					
Estimated co-variance	es = 1	Number of o	obs = 250)		
Estimated autocorrela	ations = 0	Number of g	roups = 3	3		
Estimated coefficients	s = 64	Obs per grou	p:			
min = 2 avg =	7.575758 m	ax = 8 Wa	ld chi2(63)	= 2587.02		
Log likelihood =	466.9818	Prob > chi2	= 0.0000			
SMAID	Coef.	Std. Err.	Z	P> z	[95% Conf	f. Interval]
SMAID						
L2.	.3722122	.0517553	7.19	0.000*	.2707738	.4736506
COMPETACCT						
L1.	.0598114	.0206093	2.90	0.004*	.0194179	.1002049
CUSTOMACCT						
L1.	.1299749	.0256295	5.07	0.000*	.079742	.1802079
STRATDECIMAKING						
L1.	.0300908	.0295432	1.02	0.308	0278128	.0879945
STRATCOSTING						
L1.	.2285639	.0890609	2.57	0.010*	.0540079	.40312
SPCPM						
L1.	.0475917	.0293791	1.62	0.105	0099902	.1051736
CGDI						
LO	.2273819	.2066897	1.10	0.271	1777224	.6324862
L1.	1842844	.2145698	-0.86	0.390	6048336	.2362647
SCID						
LO	.0900222	.0265474	3.39	0.001*	.0379903	.1420541
L1.	0201926	.0269566	-0.75	0.454	0730265	.0326413
ROA						
LO	0500542	.029658	-1.69	0.091**	1081829	.0080744
L1.	0379493	.0282214	-1.34	0.179	0932622	.0173636
ROE						
LO	0022118	.0019187	-1.15	0.249	0059724	.0015489
L1.	.0019892	.001913	1.04	0.298	0017602	.0057386
SIZE						
LO	0018293	.0013338	-1.37	0.170	0044435	.0007849
L1.	.0018147	.0013566	1.34	0.181	0008441	.0044735
LEV						
LO	.0000624	.0000899	0.69	0.488	0001138	.0002385
L1.	0001401	.0000898	-1.56	0.119	000316	.0000359
LIQ						

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LO	0002045	.0006968	-0.29	0.769	0015701	.0011612
L1.	0000869	.0006924	-0.13	0.900	001444	.0012703
SALESGROWTH						
LO	0008982	0036583	0.25	0.806	- 006272	0080683
L1.	0004739	.0034063	-0.14	0.889	0071501	.0062024
ASSETSINPLACE		10001000	0.11	0.007	10071001	
LO	- 0015645	0077786	-0.20	0.841	- 0168102	0136813
L1	- 0103605	0075511	-1 37	0.011	- 0251604	0044394
<u>тлу</u>	.0105005	.0075511	1.57	0.170	.0231001	.0011371
	- 0061334	0034321	_1 70	0.074**	- 0128602	0005035
L0 I 1	0001334	0034321	-1.79	0.074	0123052	0001679
CSDINDEV	0003007	.0034371	-1.91	0.030	0133032	.0001079
IO	034970	0312746	1 1 2	0.265	- 0264191	006176
L0 I 1	- 0350361	031749	-1.12	0.205	0204101	0271004
INED	0330301	.0317400	-1.10	0.270	0972020	.0271904
	0052577	0165500	0.22	0.751	0277146	0271002
LU I 1	0052577	.0105599	-0.32	0.751	0377140	.02/1992
	0033907	.0041009	-0.62	0.414	0115519	.0047565
	0016275	0004240	0.10	0.046	0140045	0101605
LU	.0010375	.0084348	0.19	0.840	0148945	.0181095
LI.	.0057008	.0081	0.70	0.482	0101/48	.0215764
M5	0000757	0001017	0.01	0.002	0150705	01(101
LU	.0000757	.0081916	0.01	0.993	0159/95	.016131
	0029486	.0067555	-0.44	0.662	0161892	.010292
GDP	0010006	000505/	0.65	0 51 4	00500(5	000/505
LU	0018236	.0027976	-0.65	0.514	00/306/	.0036595
L1.	0	(omitted)				
DIV						
LO	0050023	.0075896	-0.66	0.510	0198776	.0098731
L1.	.0084343	.0078557	1.07	0.283	0069626	.0238312
CEODUAL						
LO	0163366	.0192028	-0.85	0.395	0539734	.0213002
L1.	001476	.0199421	-0.07	0.941	0405618	.0376098
INDDIRECTOR						
LO	0017245	.0046084	-0.37	0.708	0107567	.0073077
L1.	.003572	.0045895	0.78	0.436	0054232	.0125672
BCOMP						
LO	.0403828	.0399507	1.01	0.312	037919	.1186847
L1.	0626934	.0393738	-1.59	0.111	1398647	.0144779
BSIZE						
LO	.0026521	.0020603	1.29	0.198	001386	.0066901
L1.	0012436	.0020087	-0.62	0.536	0051805	.0026934
BFREQMEET						
LO	.0027545	.0012429	2.22	0.027*	.0003184	.0051906
L1.	0042808	.0013684	-3.13	0.002*	0069627	0015988
BSUBCOMTTE						
LO	.0944691	.0284186	3.32	0.001*	.0387697	.1501685
L1.	0785279	.026737	-2.94	0.003*	1309315	0261244
DIRECTOROWNER						
LO	0156345	.0142487	-1.10	0.273	0435614	.0122924
L1.	.0208611	.0150252	1.39	0.165	0085877	.0503098
GOVTOWNER						
LO	0040454	.0234014	-0.17	0.863	0499113	.0418204
L1.	.0036504	.0232822	0.16	0.875	0419818	.0492826
INSTIOWNER						
LO	.0549445	.0413516	1.33	0.184	0261033	.1359922
L1.	0276132	.0406653	-0.68	0.497	1073158	.0520894
BLOCKOWNER						
LO	0363581	.045413	-0.80	0.423	-,1253661	.0526498
L1.	.0137784	.0433719	0.32	0.751	0712289	.0987857
AUDITFIRMSI7F	10107701	.0.100717	0.02	0.7.01		10,01,001
ΙΛ	0129665	0174603	0.74	0 459	- 0212552	0471881
	1012 2003	.01/ 4003	0.74	0.400	0212332	1001 (10.

L1.	0043639	.017475	-0.25	0.803	0386143	.0298864
AUDITCMTEE						
LO	0913768	.0335104	-2.73	0.006*	1570559	0256977
L1.	.0994955	.0324825	3.06	0.002*	.035831	.16316
REMUCMTEE						
LO	.024212	.0188187	1.29	0.198	0126719	.0610959
L1.	0283143	.018646	-1.52	0.129	0648597	.0082311
_cons	.2692472	.68557	0.39	0.695	-1.074445	1.61294

 Table 3: Cross-Sectional Time-Series FGLS Regression Results on Determinants of Strategic

 Management Accounting Information Disclosure

 P-values are significant at 1% and 5% levels. **P-values Significant at the 10% Level

Random-effects GLS re	gression	Number of obs	= 250			
Group variable: id	0	Number of grou	ups = 33			
R-sq:		Obs per group:	-			
within = 0.3465		min = 2				
between = 0.9917		avg = 7.6				
overall = 0.9119		max = 8				
Wald chi2(63) = 19	24.75 corr(1	1_i, X) = 0 (assu	ımed)	Prob > chi2	= 0.0000	
SMAID	Coef.	Std. Err.	Z	P> z	[95% Conf	Interval]
SMAID						
L2.	.3722122	.0600023	6.20	0.000*	.2546098	.4898146
COMPETACCT						
L1.	.0598114	.0238934	2.50	0.012*	.0129813	.1066415
CUSTOMACCT						
L1.	.1299749	.0297135	4.37	0.000*	.0717375	.1882124
STRATDECIMAKING						
L1.	.0300908	.0342508	0.88	0.380	0370396	.0972213
STRATCOSTING						
L1.	.2285639	.1032525	2.21	0.027*	.0261928	.4309351
SPCPM						
L1.	.0475917	.0340605	1.40	0.162	0191657	.1143491
CGDI						
LO	.2273819	.2396251	0.95	0.343	2422746	.6970385
L1.	1842844	.2487609	-0.74	0.459	6718469	.303278
SCID						
LO	.0900222	.0307776	2.92	0.003*	.0296991	.1503453
L1.	0201926	.031252	-0.65	0.518	0814454	.0410602
ROA						
LO	0500542	.034384	-1.46	0.145	1174456	.0173371
L1.	0379493	.0327184	-1.16	0.246	1020762	.0261776
ROE	10077170		1110	0.210	11010701	
LO	0022118	.0022245	-0.99	0.320	0065717	.0021481
L1.	.0019892	.0022178	0.90	0.370	0023576	.0063361
SIZE			013 0	0.070	10020070	
LO	0018293	.0015464	-1.18	0.237	0048601	.0012015
L1	0018147	0015727	1 15	0.249	- 0012678	0048972
LEV		.0010/2/	1.10	0.217	10012070	10010772
LO	0000624	0001042	0.60	0 549	- 0001418	0002666
L1	- 0001401	0001041	-1 35	0.178	- 0003441	000064
LIO	10001101		1.00	0.170	10000111	1000001
LO	- 0002045	0008078	-0.25	0.800	- 0017877	0013788
<u> </u>	- 00002045	0008028	-0.11	0.000	- 0016603	0014865
SALESCROWTH	.0000005	.0000020	0.11	0.714	.0010005	.0014005
IO	0008982	0042413	0.21	0.832	- 0074146	0092109
I 1	- 0004739	0039491	-0.12	0.032	0074140	0072662
	0004739	.0039491	-0.12	0.904	0002139	.0072002
I O	0015645	0000191	0.17	0.962	0102206	0161107
LU I 1	0013043	0090101	-0.17	0.002	0192390	.0101107
	0102002	.000/344	-1.10	0.237	02/3100	.000/9//
	0061224	002070	1 54	0 1 2 2	0120221	0016654
	0001334	.0039/9	-1.34	0.123	0139321	00100034
	000508/	.0039848	-1.05	0.099***	0143/80	.0012413
LOKINDEX	024070	02(2501	0.07	0.226	02(105)	1050425
LU	.0348/9	.0362581	0.96	0.336	0361856	.1059435

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INFR 0052577 0191987 -0.27 0.784 -0.42865 0323711 L1 -0033967 .0048239 -0.70 0.481 -0128514 .006058 INTR - - - - - - .0128514 .006058 I.O .0016375 .0097789 0.17 0.867 0175288 .0208038 I.I .0057008 .0097789 0.01 0.994 018379 .0186934 I.I .0000757 .009466 .07832 038 0.707 .018299 .0124019 GDP .0029486 .007332 056 0.574 0081805 .0045332 L1 0 (mitted) - - - - .022479 .0122434 L1 .0050023 .0091075 0.93 0.354 .009167 .0222479 .0122434 L1 .001746 .0221627 073 0.463 .0599707 .02727975 L1 .001757 .0	L1.	0350361	.0368079	-0.95	0.341	1071783	.037106
L0 0052577 .0.191987 0.27 0.784 0428865 .0.323711 L1 0033967 0048239 0.70 0.481 0128514 .006058 INTR	INFR						
L1. 0033967 .0048239 0.70 0.481 0128514 .006058 INTR 0033967 .0097789 0.17 0.867 0175288 .0208038 L1 .0057008 .0093907 0.61 0.544 0127046 .0241061 MS .0000757 .0094969 0.01 0.994 .018539 .0124019 L0 .00029466 .007832 -0.38 0.707 018299 .0124019 L0 0018236 .0032433 -0.56 0.574 0081805 .0045332 L1 0 (omitted) - - .0222479 .0122434 L1 .0054334 .0091075 0.93 0.354 .004679 .04638 L0 .0163366 .02222627 .0.73 0.463 .0599707 .0278975 L1 .0017245 .0053427 -0.322 0.747 .01679 .033833 INDDIRECTOR - - - - .006679 .0063865	LO	0052577	.0191987	-0.27	0.784	0428865	.0323711
INTR 0 0.016375 .0097789 0.17 0.867 .0175288 .0208038 L1 .005708 .0093907 0.61 0.544 .0127046 .0241061 MS .0029486 .007832 .0.38 0.707 .018299 .0124019 L0 .00029486 .007323 .0.38 0.707 .018299 .0124019 L0 .0018236 .0032433 .0.56 0.574 .0081805 .0045332 L1 0 (omitted) .0050023 .008799 .0.57 .0.570 .0222479 .0122434 L0 .0050023 .008799 .0.57 0.570 .0222479 .0122434 L0 .0163366 .0222627 .0.73 0.463 .00977 .0272975 L1 .001476 .0231198 .0.06 0.949 04679 .0438381 INDDIRECTOR .0017245 .0053427 .0.32 .0593 .0050807 .0227975 L1 .0026531 .0023866	L1.	0033967	.0048239	-0.70	0.481	0128514	.006058
L0 0016375 .0097389 0.17 0.867 .0175288 .0208038 L1 .0057008 .0093907 0.61 0.544 0175288 .0241061 MS .0000757 .0094969 0.01 0.994 .018299 .0124019 L0 .0002782 .033 .0.707 .018299 .0124019 DD .0018236 .0032433 .0.56 0.574 .0081805 .0045332 L1 0 (omitted)	INTR						
L1. 0057008 .0093907 0.61 0.544 0127046 .0241061 MS .0000757 .0094969 0.01 0.994 0185379 0186894 L1. .0024466 .007832 -0.38 0.707 018239 0.124019 CDP .0018236 .0032433 -0.56 0.574 0081805 .0045332 L1 0 (omitted) .017 .022479 0.122434 L0 0050023 .008799 -0.57 0.570 .0222479 .0122434 L1 .0084343 .0091075 .0.33 0.354 009416 .0262846 CEODUAL .001476 .0231198 006 0.949 04679 .043381 IND .0017245 .0053427 -0.32 .0.0747 .0.12196 .008747 L1 .0017245 .0053427 -0.32 .0053062 .1311619 L1 .00262934 .0456479 -1.37 0.170 .1521617 .0267749	LO	.0016375	.0097789	0.17	0.867	0175288	.0208038
MS	L1.	.0057008	.0093907	0.61	0.544	0127046	.0241061
L0 0.000757 0.09496 0.01 0.994 018379 .018694 L1 0029486 .007832 0.38 0.707 018299 .0124019 L0 0018236 .0032433 0.56 0.574 0081805 .0045332 L1 0 00mitted) - - - - 0.022434 L1 .0080023 .008799 -0.57 0.570 0222479 .0122434 L1 .0084343 .0091075 0.93 0.354 009416 .0262846 CEODUAL - - - - - - - - - 0.272755 .1. .0017245 .0053427 -0.32 0.747 -012196 .008747 .014005 .014005 .014005 .014005 .014005 .014005 .014005 .014005 .0267749 .027749 .027749 .0267749 .0267749 .027749 .027749 .0267749 .0267749 .033300 .0593 0056* <	MS						
L1. 0029486 .007832 -0.38 0.707 018299 .0124019 GDP - - - - - - - - - - - - - - - - - - - 0.045332 - 0.045332 - 0.045332 - 0.045332 - 0.045332 - 0.045332 - 0.0222479 0.0122434 - 0.045332 - 0.022434 - 0.045332 - 0.09416 0.0262444 - 0.0222479 0.122434 0.012436 0.026207 - 0.73 0.463 0599707 0.272975 L1 - - 0.017245 0.053427 -0.32 0.747 -012196 0.008747 0.10005 B B D 0.003572 0.053208 0.67 0.383 050396 1.111619 1.11 012196 0.004774 9.12217 L1 0.003572 0.03208 L1 1.0 .0013208 D <td>LO</td> <td>.0000757</td> <td>.0094969</td> <td>0.01</td> <td>0.994</td> <td>0185379</td> <td>.0186894</td>	LO	.0000757	.0094969	0.01	0.994	0185379	.0186894
GDP	L1.	0029486	.007832	-0.38	0.707	018299	.0124019
L0 0018236 .0032433 -0.56 0.574 0081805 .0045332 L1 0 (omitted) - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - 0.045332 0.022267 -0.73 0.463 00599707 0.272975 L1. 001726 0.0222627 -0.73 0.463 00599707 0.272975 L1. 0017245 .0053427 -0.32 0.747 012196 .008747 L1 .003572 .0053208 0.67 0.502 0068565 .0140005 B B D .005322 .0033208 .04538 .05033208 .0574 .0503320 .0574 .002694 .0073336 .01411 1.91 0.26244 .0073301 .01717 .01717 .01717 .001717 .001774 .0017336 .01	GDP						
L1. 0 (omitted)	LO	0018236	.0032433	-0.56	0.574	0081805	.0045332
DIV	L1.	0	(omitted)				
L0 -0.050023 .008799 -0.57 0.570 -0.222479 .0122434 L1 .0084343 .0091075 0.93 0.354 .009116 .0262846 C6DDUAL	DIV		č				
I.1. .0084343 .0091075 0.93 0.354 .009416 .0262846 CEODUAL - - - - - 0 - 0.262846 LO 0163366 .0222627 -0.73 0.463 0599707 .0272975 L1 0017245 .0053427 -0.32 0.747 012196 .008747 L1 .003572 .0053208 0.67 0.502 0068565 .0140005 BCOMP - - - - - 1.1 0026743 .0456479 -1.37 0.170 1521617 .0267749 BSIZE - - - - - 0.023288 -0.53 0.593 0058079 .0033208 BFREQMEET - - - - - 0000698 .0055788 L1 0027545 .001441 1.91 0.056** 0000698 .0055788 L1. 0042808 .0015864 -2.70 0.004* <td>LO</td> <td>0050023</td> <td>.008799</td> <td>-0.57</td> <td>0.570</td> <td>0222479</td> <td>.0122434</td>	LO	0050023	.008799	-0.57	0.570	0222479	.0122434
CEODUAL	L1.	.0084343	.0091075	0.93	0.354	009416	.0262846
L00163366.02226270.730.4630599707.0272975L1001476.02311980.060.94904679.0438381INDDIRRCTORL00017245.0053427-0.320.747012196.008747L100572.00530280.6770.502068565.0140005BCOMPL00403828.04631670.870.3830503962.1311619L1062693404564791.370.1701521617.0267749BISIZEL0002652100238861.110.2670020294.0073336L100124360023288-0.530.5930058079.0033208BFREQMEETL00027545.0014411.910.066**000698.0055788L10042808.005864-2.700.004**0298941.1590441L10785279.030975-2.530.014*19281801774DIRCTOROWNERL00156345.0165192.0.9553440480114.0167425L10206410271303.0.155381057219049129L1003654504794091.1525	CEODUAL						
L1. 001476 .0231198 0.6 0.949 04679 .0438381 INDDRECTOR - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -	LO	0163366	.0222627	-0.73	0.463	0599707	.0272975
INDDIRECTOR	L1.	001476	.0231198	-0.06	0.949	04679	.0438381
L0 0017245 .0053427 -0.32 0.747 012196 .008747 L1. .003572 .0053208 0.67 0.502 0068565 .0140005 BCOMP - - - - - - - - - - - - - - - - - - - - - - - 0.066855 .1311619 - - - - - - - 0.202394 .0073336 - .01710 - .027749 - 0.032288 - 0.533 0.593 .0058079 .0033208 BFREQMEET - - - - - - 0.011715 BSUBCOMTTE - - - 0.011715 - 0.0078* .00078* .0011715 - 0.0078* .001774 - - - - - - - - - - - - - -	INDDIRECTOR						
L1. .003572 .0053208 0.67 0.502 .0068565 .0140005 BCOMP	LO	0017245	.0053427	-0.32	0.747	012196	.008747
BCOMP Image: constraint of the second s	L1.	.003572	.0053208	0.67	0.502	0068565	.0140005
L0 .0403828 .0463167 0.87 0.383 0503962 .1311619 L1. 0626934 .0456479 -1.37 0.170 1521617 .0267749 BSIZE	BCOMP						
L1. 0626934 .0456479 -1.37 0.170 1521617 .0267749 BSIZE	LO	.0403828	.0463167	0.87	0.383	0503962	.1311619
BSIZE Image Image Image Image Image Image L0 .0026521 .0023886 1.11 0.267 0020249 .0073336 L1. .0012436 .0023288 0.53 0.593 .0058079 .0033208 BFREQMEET Image Image Image .001586 .0.593 .00058079 .0033208 L0 .0027545 .001441 1.91 0.056** .000698 .0055788 L1. .0042808 .0015864 -2.70 0.004* .0032081 .011715 BSUBCOMTTE Image Image .015392 2.87 0.004* .0298941 .1590441 L1 .0785279 .032947 2.87 0.001** .1392818 .017774 DIRECTOROWNER .015545 .0165192 -0.95 0.344 .0406114 .0167425 L0 .0156345 .0167192 1.05 0.381 .057219 .049129 L1 .0208611 .01714194 1.20 </td <td>L1.</td> <td>0626934</td> <td>.0456479</td> <td>-1.37</td> <td>0.170</td> <td>1521617</td> <td>.0267749</td>	L1.	0626934	.0456479	-1.37	0.170	1521617	.0267749
L0 .0026521 .0023886 1.11 0.267 .0020294 .0073336 L1. .0012436 .0023288 -0.53 0.593 .005807 .0033208 BFREQMEET 0027545 .001441 191 0.056** .0000698 .0055788 L1. .0042808 .0015864 -2.70 0.007* .0073901 .0011715 BSUBCOMTTE - - - - - - .001774 L0 .0944691 .032947 2.87 0.004* .0298941 .1590441 L1. .0785279 .0309975 2.53 0.011* .1392818 .01774 DIRECTOROWNER - - - - - .0167425 L1. .0208611 .0171419 1.20 0.231 .013203 .05504 L0 .0164545 .0271303 -0.15 0.881 0572199 .049129 L1. .0036504 .0269921 0.14 0.892 .0492532 .056554 </td <td>BSIZE</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>	BSIZE						
1.1 0012436 .0023288 -0.53 0.593 0058079 .0033208 BFREQMET	LO	.0026521	.0023886	1.11	0.267	0020294	.0073336
BFREQMEET Image: constraint of the second seco	L1.	0012436	.0023288	-0.53	0.593	0058079	.0033208
L0 .0027545 .001441 1.91 0.056** .0000698 .0055788 L1. .0042808 .0015864 -2.70 0.007* .0073901 .0011715 BSUBCOMTTE - - - - - - L0 .0944691 .032947 2.87 0.004* .0298941 .1590441 L1. .0785279 .0309975 -2.53 0.011* .1392818 017774 DIRECTOROWNER - - - - - - L0 .0208611 .0174194 1.20 0.231 018030 .055024 GOVTOWNER - - - - - - - - - - - - -017242 .0555192 .013203 .0557219 .049129 .049129 .049129 .049129 .049129 .049129 .049129 .049129 .049129 .0558 120160 .0667838 .0526495 -0.59 0.558 120162 <	BFREQMEET						
L1. 0042808 .0015864 -2.70 0.007* 0073901 0011715 BSUBCOMTTE - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -	LO	.0027545	.001441	1.91	0.056**	0000698	.0055788
BSUBCOMTTEImage for the state of	L1.	0042808	.0015864	-2.70	0.007*	0073901	0011715
L0.0944691.0329472.870.004*.0298941.1590441L10785279.0309975.2.530.011*.1392818.017774DIRECTOROWNERL0.0156345.0165192-0.950.344.0480114.0167425L10208611.01741941.200.231.0132803.050204GOVTOWNERL0.0040454.0271303-0.150.881.0572199.049129L10036504.02699210.140.892.0492532.05654INSTIOWNERL0.0549455.04794091.150.252039018.1489069L10276132.0471452-0.590.558.1200162.0647898BLOCKOWNERL0.0363581.0526495-0.690.490.1395492.066833L10137784.0202830.270.784.0847745.112314AUDITFIRMSIZEL0.0129665.02024260.640.522.0267083.0526412L10913768.038501-2.350.019*.1675217.0152319L1.0943639.038501-2.350.019*.1675217.0152319L1.0913768.038501-2.350.019*.1675217.015	BSUBCOMTTE						
L1078527903099752.530.011*139281801774DIRECTOROWNER </td <td>LO</td> <td>.0944691</td> <td>.032947</td> <td>2.87</td> <td>0.004*</td> <td>.0298941</td> <td>.1590441</td>	LO	.0944691	.032947	2.87	0.004*	.0298941	.1590441
DIRECTOROWNER ····· ····· ····· ····· L0 ··0156345 .0165192 ···095 0.344 ···0480114 .0167425 L1. .0208611 .0174194 1.20 0.231 ···0132803 .0550024 GOVTOWNER ···· ···· ···· ···· ···· ···· L0 ···040454 .0271303 ···· 0.881 ···0572199 .049129 L1. .0036504 .0269921 0.14 0.892 ···0572199 .049129 L1. .0036504 .02791303 ···15 0.881 ···0572199 .05654 INSTIOWNER ···· ···· ···· ···· ···· ···· L0 .0549445 .0479409 1.15 0.252 ··.030918 .1489069 L1. ··.0276132 .0471452 ··.059 0.558 ··.120162 .066833 BLOCKOWNER ····· ····· ····· ····· ····· ····· ·····	L1.	0785279	.0309975	-2.53	0.011*	1392818	017774
L0 0156345 .0165192 0.95 0.344 0480114 .0167425 L1. .0208611 .0174194 1.20 0.231 0132803 .0550024 GOVTOWNER 0040454 .0271303 -0.15 0.881 0572199 .049129 L0 0040454 .0269921 0.14 0.892 0492532 .05654 INSTIOWNER - - - - - - - L0 .0549445 .0479409 1.15 0.252 039018 .1489069 L1. .0276132 .0471452 -0.59 0.558 1200162 .0647898 BLOCKOWNER - - - - - - - L0 0363581 .0526495 -0.69 0.4900 1395492 .066833 L1. .0137784 .050283 0.27 0.784 0847745 .1123314 AUDITFIRMSIZE - - - - - -	DIRECTOROWNER						
L1. .0208611 .0174194 1.20 0.231 0132803 .0550024 GOVTOWNER - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -	LO	0156345	.0165192	-0.95	0.344	0480114	.0167425
GOVTOWNER Image: Mark and the state of the	L1.	.0208611	.0174194	1.20	0.231	0132803	.0550024
L0 0040454 .0271303 -0.15 0.881 0572199 .049129 L1. .0036504 .0269921 0.14 0.892 0492532 .056554 INSTIOWNER - - - - - - - L0 .0549445 .0479409 1.15 0.252 039018 .1489069 L1. 0276132 .0471452 -0.59 0.558 1200162 .0647898 BLOCKOWNER - - - - - - - L0 0363581 .0526495 -0.69 0.490 1395492 .066833 L1. .0137784 .050283 0.27 0.784 0847745 .1123314 AUDITFIRMSIZE - - - - - - .0526412 L0 .0129665 .0202426 0.64 0.522 0267083 .0526412 L1 0043639 .0202596 -0.22 0.829 044072 .	GOVTOWNER						
L1. .0036504 .0269921 0.14 0.892 0492532 .056554 INSTIOWNER	LO	0040454	.0271303	-0.15	0.881	0572199	.049129
INSTIOWNER Image: marked state s	L1.	.0036504	.0269921	0.14	0.892	0492532	.056554
L0 .0549445 .0479409 1.15 0.252 039018 .1489069 L1. 0276132 .0471452 059 0.558 1200162 .0647898 BLOCKOWNER - - - - - - - L0 0363581 .0526495 -0.69 0.490 1395492 .066833 L1. .0137784 .050283 0.27 0.784 0847745 .1123314 AUDITFIRMSIZE - - - - - - - - - 0.66833 L0 .0137784 .050283 0.27 0.784 0847745 .1123314 AUDITFIRMSIZE - - - - - - - 0.526412 .036412 .035341 .035341 .035341 .035341 .035341 .035341 .035341 .014072 .0353441 .014054 .0256863 .1733047 L0 0913768 .0376585 2.64 0.008*	INSTIOWNER						
L1. 0276132 .0471452 0.59 0.558 1200162 .0647898 BLOCKOWNER 0363581 .0526495 -0.69 0.490 1395492 .066833 L0 .0137784 .050283 0.27 0.784 0847745 .1123314 AUDITFIRMSIZE - - - - - - L0 .0129665 .0202426 0.64 0.522 0267083 .0526412 L1 0043639 .0202596 -0.22 0.829 044072 .0353441 AUDITCMTEE - - - - - - - 0.523143 .0256863 .1733047 L0 0913768 .0388501 -2.35 0.019* 1675217 0152319 L1 .0994955 .0376585 2.64 0.008* .0256863 .1733047 L0 .024212 .0218174 1.11 0.267 0185492 .0669733 L1 .0283143 .0216171 -	LO	.0549445	.0479409	1.15	0.252	039018	.1489069
BLOCKOWNER Image: marked state s	L1.	0276132	.0471452	-0.59	0.558	1200162	.0647898
L0 0363581 .0526495 0.69 0.490 1395492 .066833 L1. .0137784 .050283 0.27 0.784 0847745 .112314 AUDITFIRMSIZE - - - - - - L0 .0129665 .0202426 0.64 0.522 0267083 .0526412 L1. 0043639 .0202596 -0.22 0.829 044072 .0353441 AUDITCMTEE - - - - - - - 0.052314 - 0.052412 .0353441 L0 0913768 .0388501 -2.35 0.019* 1675217 0152319 L1 .0994955 .0376585 2.64 0.008* .0256863 .1733047 REMUCMTEE - - - - - - - L0 .024212 .0218174 1.11 0.267 0185492 .0669733 L1. 0283143 .0216171	BLOCKOWNER						
L1. .0137784 .050283 0.27 0.784 0847745 .1123314 AUDITFIRMSIZE - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - 0.267083 .0526412 0.64 0.522 0267083 .0526412 0.353441 - 0.0170472 .0353441 0.353441 0.3538501 -0.22 0.829 044072 .0353441 0.353441 - 0.01704 0152319 0.353441 0.110 0152319 0152319 0152319 1.133047 0152319 1.733047 0152319 1.733047 0152319 1.733047 0185492 .0669733 1.733047 0185492 .0669733 1.10 1.0267 0185492 .0669733 1.10 1.0100 0706831 .0140545 .0140545 .0140545 .0140545 .0140545 .0140545 .0140545 .02692472 .7948137	LO	0363581	.0526495	-0.69	0.490	1395492	.066833
AUDITFIRMSIZE Image: margin base of the system	L1.	.0137784	.050283	0.27	0.784	0847745	.1123314
L0 .0129665 .0202426 0.64 0.522 0267083 .0526412 L1. 0043639 .0202596 -0.22 0.829 044072 .0353441 AUDITCMTEE - - - - - - 0.05217 .0353441 L0 0913768 .0388501 -2.35 0.019* 1675217 0152319 L1. .0994955 .0376585 2.64 0.008* .0256863 .1733047 REMUCMTEE - - - - - - - - - 669733 L0 .024212 .0218174 1.11 0.267 0185492 .0669733 L1. 0283143 .0216171 -1.31 0.190 0706831 .0140545 _cons .2692472 .7948137 0.34 0.735 -1.288559 1.827053	AUDITFIRMSIZE						
L1. 0043639 .0202596 -0.22 0.829 044072 .0353441 AUDITCMTEE - - - - - - - 0.353441 L0 0913768 .0388501 -2.35 0.019* 1675217 0152319 L1. .0994955 .0376585 2.64 0.008* .0256863 .1733047 REMUCMTEE - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -	LO	.0129665	.0202426	0.64	0.522	0267083	.0526412
AUDITCMTEE	L1.	0043639	.0202596	-0.22	0.829	044072	.0353441
L0 0913768 .0388501 -2.35 0.019* 1675217 0152319 L1. .0994955 .0376585 2.64 0.008* .0256863 .1733047 REMUCMTEE	AUDITCMTEE						
L1. .0994955 .0376585 2.64 0.008* .0256863 .1733047 REMUCMTEE -0.024212 .0218174 1.11 0.267 0185492 .0669733 L0 .0283143 .0216171 -1.31 0.190 0706831 .0140545 _cons .2692472 .7948137 0.34 0.735 -1.288559 1.827053	LO	0913768	.0388501	-2.35	0.019*	1675217	0152319
REMUCMTEE	L1.	.0994955	.0376585	2.64	0.008*	.0256863	.1733047
L0 .024212 .0218174 1.11 0.267 0185492 .0669733 L1. 0283143 .0216171 -1.31 0.190 0706831 .0140545 _cons .2692472 .7948137 0.34 0.735 -1.288559 1.827053	REMUCMTEE						
L10283143 .0216171 -1.31 0.1900706831 .0140545 _cons .2692472 .7948137 0.34 0.735 -1.288559 1.827053	LO	.024212	.0218174	1.11	0.267	0185492	.0669733
_cons .2692472 .7948137 0.34 0.735 -1.288559 1.827053	L1.	0283143	.0216171	-1.31	0.190	0706831	.0140545
	_cons	.2692472	.7948137	0.34	0.735	-1.288559	1.827053

 Table 4: Random Effects GLS Regression Results on Determinants of Strategic

 Management Accounting Information Disclosure

P-values are significant at 1% and 5% levels. **P-Values Significant at the 10% Level