EARNINGS MANAGEMENT:
DETERMINANT FACTORS AND STOCK PRICE
IN DEVELOPING MARKET

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Abstract: The aim of this study was to prove whether manager coped its earnings for the purpose of
informative or target opportunistic. Research also investigated whether investment opportunity set
influenced the choice of manager to report as opportunistic to hide performance, or to report earn-
ing more informative concerning with debt, political cost, market share, and earning. Sample of this
research was chosen by using purposive sampling of 350 manufacturing business listed in the Jakarta
Stock Exchange, started from 1997 up to 2002. Structural Equation Modeling (SEM) by using program
of Analysis of Moment Structures (AMOS) was considered as the appropriate statistical technique to
examine pattern relation of formed model. The results showed that earning management conducted
by manager in Developing Market such as Indonesia represented informative earning management
which meant all investors had more own belief in earning reporting, but this research could not
prove that company owning high investment opportunity set tended to conduct informative earning
management.

Key words: earning management, investment opportunity set, debt, political cost, market share

Financial statements as source of information are
used to assess financial position and performance
of the company. It contains balance sheet, income
statement, and statement of equity that made
relies on accrual bases, and statement of cash flow
made on cash bases. Therefore, accrual base of
financial statements give a chance for manager
to modify financial statement in order to produce
expected earning. Generally Accepted Accounting
Principle (GAAP) provides a manager to freely select
accounting methods to be used in preparing financial
statement (Veronica & Bachtiar, 2003). Managerial
selection motivates managerial acts into informative
earning management or opportunistic earning
management (Siregar & Utama, 2008; and Jiraporn
et al., 2008). Managerial selection on earning
management ensures that Investment Opportunity
Set (IOS) affects contractual event, then influences
managerial selection on accounting method to be
used (Chen et al., 2008).

Despite the impossibility of clear ex-post
difference between these two motivations, in long-
term perspective, rational investors compare earning
reporting with actual performance and screen
management’s interpretation of earning reporting. In
one hand, if managers of a certain company specially
concern with an interest of giving information to
investors, then future performance of the company
remains similar to the flow of earning reporting and,
thus, investors feel more confident with earning
reporting. On the other hand, if managers of the company seem motivated to hide information from investors, then future performance of the company differs from earning reporting flow resulting in lack of investors’ trust to earning reporting. These also mean there are different motivations among managers. The company where the investors establish discretionary accrual positively appears having more opportunistic earning management. In other word, motivational difference in the opportunistic earning management causes different economic impact measured by investors’ response to more efficient capital market.

DeAngelo (1988) determines that managers use accrual opportunistically to conceal performance, but it results in negative market reaction. However, Dechow (1994) impresses that accrual based earning produces a privileged measure toward company performance rather than cash flow. Subramaniam (1996) shows that, in average, discretionary and non-discretionary market values remain as part of accrual. These literatures, however, do not explain whether the companies with different characteristic display different opportunistic and informative earning managements. Moreover, researcher investigates company growth, called Investment Opportunity Set, in relative with the behavior of informative and opportunistic earning managements based on research findings of Gul et al., (2003), Riahi-Belkoui (2003), Nuswantara (2004), and Chen et al., (2008) throughout Indonesian companies.

Researcher considers the following premises: firstly, it retests earning management theory by investigating it from investment opportunity set, debt, political cost and market concentration at developing market, especially Indonesian capital market. Research follows previous studies, such as Cahan, 1992; Rajgopal, 1999; Gu, 2002; Gu, et al. 2003; Riahi-Belkoui, 2003, and Chen et al., 2008 conducted at developing countries. Meanwhile, Nuswantara (2004) examines Indonesian market (developing market), but it confines only to the effect of market concentration and debt on earning management, and the results consistence with other researchers although it was conducted in different research objects within Indonesia. This research, however, has been classified into extended replication, particularly replicating research by Gul et al., (2003) and Chen et al., 2008 with some additional new variables obtained from Nuswantara’s research findings (2004), and political cost hypothesis from Cahan (1992). Secondly, researcher would like to understand the effect of investment opportunity set on earning management by relating investment opportunity set with political cost, and using market concentration as main determinant of investment opportunity set and earning management. Thirdly, measuring investment opportunity set in this research extends the research scope wider than Gul et al., (2003), Riahi-Belkoui (2003) and Chen et al., 2008. Lastly, this research examines the effect of each of independent variables against dependent variables simultaneously by conducting Analysis Moment Structure (AMOS) 4.0.

Investigated problems in this research include: (a) are investment opportunity set based on share, investment, and variant contribute to investment opportunity set?, (b) do earning management, investment opportunity set, debt, political cost, market concentration, and earning affect share price?, (c) do they (investment opportunity set, debt, political cost, and market concentration) influence earning management?, (d) do investment opportunity set, debt, political cost, and market concentration give impact on earning?, (e) how does the effect of investment opportunity set on debt?, (f) how does the effect of debt on market concentration?

This research is expected to give the following benefits: (1) Theoretical benefit. Research gives empirical evidence related to contracting theory of Watts & Zimmerman (1986) confirming that IOS affects contractual events and then influences manager’s selection on accounting method to be used. Other empirical evidences related to the relationship between earning management and investment opportunity set from Gul et al. (2003)
and Riahi-Belkoui (2003) asserting that higher IOS companies managing earning more as a tool to transfer valuable relevant private information rather than to hide opportunistically bad performance.

(2) Practical benefit. The practical benefit in this research involves the following: (a) to investors and capital market analysts, it provides a guide for decision making to capital market actors (investors, brokers, and security analysts), and investor candidates in the future, especially when they come to make investment decision; (b) to Indonesian Institute of Accountants (IAI), research provides a way for IAI to become standard setter through the Financial Accounting Standards Board (DSAK) in narrowing the space for management to avoid from unexpected opportunistic earning management against company and interested parties in the company (stakeholders).

CONTRIBUTION OF IOS, INVESTMENT, AND VARIANT TO IOS

Baker (1993) stipulates that proxies need to be developed and improved because every proxy, especially individually used proxy, carries measurement error (Smith & Watts, 1992; Gaver & Gaver, 1993). Bartholomew (1987) opinion quoted by Mahfud (2004) insists that any considerations find necessary to simplify the data through integration of observed variables into composite variables. Observed variables integration into composite variables facilitates the understanding of observed phenomenon and these seem used as description or used in further analysis as regression variables.

THE EFFECT OF EARNING MANAGEMENT, IOS, DEBT, POLITICAL COST, AND MARKET CONCENTRATION, EARNING ON SHARE PRICE

The effect of earning management on share price has been proved in research by Hartono (1998 and 2000); Gul et al., (2003); Ardiati (2003). Earning management smoothes managerial action to communicate private information and, therefore, improves earning capability to reflect company’s economic value. The effect of investment opportunity set (IOS) on share price has been connected to Smith & Watts (1992), Riahi-Belkoui (2001) and Gul et al., (2003) studies. Their findings underline positive relationship between IOS and share price. Smith & Watts (1992) concluded that managers in company with relatively higher ISO produce a wise decision-making because they have better information on investment opportunity set than company’s shareholder.

Through debt hypothesis, company with higher debt forces manager to select an accounting policy shifting future earning toward current earning (Watts & Zimmerman, 1986). Gul et al., moreover, (2003) clarify that debt negatively affects share price because higher debt rate gives more incentives to opportunistic earning management in meeting debt covenant requirement. This argument estimates that higher company debt means lower share price.

Size hypothesis explains that in larger companies, manager considers an accounting policy retaining current earning to have future earning (Watts & Zimmerman, 1986). Company’s size positively affects earning quality, and it seems higher earning quality in larger companies than in smaller one (Gul et al., 2003). Diamond & Verrecchia (1991) cited by Komalasari (2000) declared that larger company with greater risk to investors receives the greatest earning per share (increased share value).

Nuswantara (2004) conducted a research testing the effect of market concentration on share
price. Market concentration positively relates to share price because the company within higher industrial concentration tends to select accounting policy that declines in the future (Nuswantara, 2004). If market share of larger company facilitates a strong position in competition, company signals a better condition in the future to make investors positively reacting toward the company.

Studies on the relationship between earning and share price have been related to Ali (1994), Asyik (1999), Harries (1999), Gunawan (1999), and Candrarin & Tearney (2000). The results indicate a significant positive relationship between earning and share price.

THE EFFECT OF IOS, DEBT, POLITICAL COST, AND MARKET CONCENTRATION ON EARNING MANAGEMENT


Results of Nuswantara (2004), Riahi-Belkoui (2003), and Perez & Hemmen (2009) researches pointed out the negative effect between debt and earning management. This occurs due to too loose creditor monitoring. Slackened monitoring motivates earning management, or in other words, monitoring mechanism does not prevent the company from conducting earning management. However, researches from Chau & Lee (1999), and Gul et al. (2003), find that company debt positively relates to earning management. Debt rate of company results in improving earning management aimed at maintaining good performance in auditor view. Therefore, significant affect occurs between debt and earning management.

Larger company has more complete disclosure that seems accessible to auditor examination than smaller one. This causes more conservative reporting of accounting and earning manipulation (Cahan, 1992; Gul et al. 2003; Nuswantara, 2004). Research's results of Rajgopal (1999), Gu (2002), Gul, et al. (2003), and Nuswantara (2004) confirmed that asset relates negatively to earning management. This argument expects negative relationship between political cost and earning management rate.

Shleifer & Vishny (1997) quoted in Nuswantara (2004) explain that product market competition reduces company profitability. If the company seems inefficient, it reduces company earning. Therefore, a manager of a company with lower profitability manipulates company's earning such that investors still involve their capital within company. If market share of company remains small, company has a weak position in competition and, thus, manipulates company's earning to a better appearance. This argument expects a negative relationship between market concentration and earning management rate.

The company with greater market strength has a chance to conduct earning management. Greater market strength means greater earning management practice, especially if external monitoring condition seems rarely (lower debt).

THE EFFECT OF IOS, DEBT, POLITICAL COST, AND MARKET CONCENTRATION ON EARNING RATE RELEVANCY

Manager uses earning management through IOS to communicate private information credibly to the investors. This makes earning statement more informative on the future of company, and improves
relevancy of earning rate. Therefore, positive impact occurs from investment opportunity set on earning.

Previous research findings, by Watts & Zimmerman (1978) and Zimmerman (1983) and Warfield et al., (1995), clarified that debt negatively affect earning because higher rate of debt gives more incentives to opportunistic earning management in meeting debt covenant requirement.

Larger company has more information than the smaller one. Therefore, new innovation has a great impact on earning of smaller company rather than larger company. Chaney & Jeter (1991) showed in their finding that company size significantly and positively correlates with earning.

Greater marker share means greater earning the company obtains. This argument forecasts the positive effect of market concentration on earning management rate.

THE EFFECT OF IOS ON DEBT

According to Myers’s (1977) argument, company with higher book value ratio appears more optimized if its debt ratio also increases. Myers (1977) emphasized an optimum profit that investors possibly obtain if they face higher bankruptcy risk. Company with higher book value ratio wants higher profit in the future such that the company enjoys optimum profit through tax profit. Result of Chen (2005) research proves that company growth positively relates to company debt.

HYPOTHESIS

$H_1$: Investment Opportunity Set based on share, investment, and variant, contributes to Investment Opportunity Set.

$H_2$: Earning management affects share price.

$H_3$: Investment opportunity set positively affects share price.

$H_4$: Higher company debt adversely affects share price.

$H_5$: Political cost positively affects share price.

$H_6$: Market strength reflected from market concentration positively affects share price.

$H_7$: Higher company earning positively affects share price.

$H_8$: Investment opportunity set positively affects earning management.

$H_9$: Higher debt of company affects earning management.

$H_{10}$: Political cost relates negatively to earning management.

$H_{11}$: Negative impact of market concentration emerges as reflected from market concentration against earning management practice.

$H_{12}$: Positive impact of debt on market strength emerges as reflected from market concentration.

$H_{13}$: Higher investment opportunity set positively affects earning.

$H_{14}$: Higher debt rate negatively affects earning.

$H_{15}$ = Political cost positively affects earning.

$H_{16}$: Market concentration positively affects earning.

$H_{17}$: Positive impact develops from company with higher investment opportunity set on debt rate.

METHOD

Related to the problem characteristic examined, research may be classified as a comparative causal research (Indriantoro & Supomo, 1999). Operational definition and variable measurement have been shown at Table 1.
Table 1. Variable Measurement

<table>
<thead>
<tr>
<th>No</th>
<th>Indicator IOS</th>
<th>Measurement</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Market to book value of equity (MBVE)</td>
<td>MBVE = [Circulated Share x Share Closing Price] : Equity Total</td>
</tr>
<tr>
<td>2</td>
<td>Book to market value of assets (MBVA)</td>
<td>MBVA = [Assets Total – Equity Total + Circulated Share x Share Closing Price] divided by Assets Total</td>
</tr>
<tr>
<td>3</td>
<td>Tobin’s Q (TOBIQ)</td>
<td>Tobin’s Q = {Circulated Share x Share Closing Price + Debt Total + Supply – Current Asset} divided by Assets Total</td>
</tr>
<tr>
<td>4</td>
<td>Earnings to price ratios (PER)</td>
<td>PER = [Share Closing Price per Sheet] : Net Earning per Sheet</td>
</tr>
<tr>
<td>5</td>
<td>Ratio of property, plant, and equipment to firm value of the assets (PPEFVA)</td>
<td>Earnings to price ratios (PER)</td>
</tr>
<tr>
<td>6</td>
<td>Ratio of depreciation to firm value (DFV)</td>
<td>DFV = Assets Total – Equity Total + [Circulated Share x Share Closing Price] divided by Depreciation Cost</td>
</tr>
<tr>
<td>7</td>
<td>Ratio of capital expenditure to book value of assets (CEBVA)</td>
<td>CEBVA = (Fixed Asset Book Value t – Fixed Asset Book Value t–1) : [Assets Total – Equity Total + (Circulated Share x Share Closing Price)]</td>
</tr>
<tr>
<td>8</td>
<td>Ratio of capital expenditure to market of assets (CEMVA)</td>
<td>CEMVA = (Fixed Asset Book Value t – Fixed Asset Book Value t–1) : [Assets Total – Equity Total + (Circulated Share x Share Closing Price)]</td>
</tr>
<tr>
<td>9</td>
<td>Ratio of Investment to Net Sales (INS)</td>
<td>INS = Investment / Net Sales</td>
</tr>
<tr>
<td>10</td>
<td>Systematic Risk (RS)</td>
<td>Fowler &amp; Rorke (1983) Beta Correction</td>
</tr>
<tr>
<td>11</td>
<td>Company size (SIZE)</td>
<td>Total Value Logarithm of company</td>
</tr>
<tr>
<td>12</td>
<td>Market Concentration (KSP)</td>
<td>KSP = (Company Sale / Industrial Sale) x 100 %</td>
</tr>
<tr>
<td>13</td>
<td>Debt (DEBT)</td>
<td>Debt = (Debt Total of company i at period t) : (Assets Total of company i at period t)</td>
</tr>
<tr>
<td>14</td>
<td>Earning</td>
<td>Annual net earning before extraordinary items</td>
</tr>
<tr>
<td>15</td>
<td>Discretionary Accruals (DA)</td>
<td>Jones (1991) modified model</td>
</tr>
<tr>
<td>16</td>
<td>Abnormal Return</td>
<td>Market adjusted model</td>
</tr>
</tbody>
</table>

\[
CAR = \sum_{i=1}^{n} AR_{it}
\]

Exogenous variables in this path coefficient include IOS and KP, while endogenous variables involve DEBT, KSP, DA, EARN and AR, and the structural equation remains as the following:

\[
\begin{align*}
DEBT &= \beta_{13} IOS + \beta_{13} \\
KSP &= \beta_{14} DEBT + \beta_{14} \\
DA &= \beta_{15} IOS + \beta_{16} DEBT + \beta_{17} KP + \beta_{18} KSP + \beta_{15} \\
EARN &= \beta_{19} IOS + \beta_{20} DEBT + \beta_{21} KP + \beta_{22} KSP + \beta_{16} \\
AR &= \beta_{23}DA + \beta_{24}IOS + \beta_{25}KP + \beta_{26} DEBT + \beta_{27}KSP + \beta_{28} EARN + \beta_{17}
\end{align*}
\]

Where:

- DEBT = Debt
- IOS = Investment Opportunity Set
- KSP = Market Concentration
- KP = Political Cost
- DA = Discretionary Accruals
- EARN = Earning
- AR = Return Abnormal Accumulation
- \(\beta_{13}\) to \(\beta_{28}\) = Loading Factor (Standardized Regression Coefficient)
- \(\beta_{13}\) to \(\beta_{17}\) = Error Term

Uni-dimensional of the model should be tested through Structural Equation Modeling (SEM), and its path diagram may be shown at Figure 1.
EMPIRICAL RESULTS

The detail result of confirmatory factorial analysis is shown in Table 2. The result of factorial analysis for the three Investment Opportunity Set proxies shows that all indicators give contribution to Investment Opportunity Set variable with probability lower than 0.05 (5%) and fix model.

**Table 2. Measurement of Investment Opportunity Set Variable**

<table>
<thead>
<tr>
<th>Construct</th>
<th>Loading Factor</th>
<th>CR</th>
<th>Tabel t (α=5%)</th>
<th>Sign</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>IOSp ← IOS</td>
<td>-0.150</td>
<td>3.461</td>
<td>1.98</td>
<td>0.000</td>
<td>Significant</td>
</tr>
<tr>
<td>IOSi ← IOS</td>
<td>0.035</td>
<td>Fix</td>
<td>1.98</td>
<td></td>
<td>Significant</td>
</tr>
</tbody>
</table>

Source: Processed secondary data

Exogenous variables of this path coefficient entail investment opportunity set (IOS) and Political Cost (KP), while endogenous variables comprise to debt (DEBT), market concentration (KSP), earning management (DA), earning (EARN), and abnormal return (AR). Relying on Table 3, the structural equation takes a following form:

\[
\begin{align*}
\text{DEBT} &= 0.330 \text{IOS} + \varepsilon_{13} \\
\text{KSP} &= 0.056 \text{DEBT} + \varepsilon_{14} \\
\text{DA} &= -0.095 \text{IOS} + 0.148 \text{DEBT} - 0.123 \text{KP} \\
&+ 0.080 \text{KSP} + \varepsilon_{15}
\end{align*}
\]
EARN = -0.033 IOS – 0.409 DEBT – 0.066 KP + 0.209 KSP + ε₁₆  
AR = 0.086 DA + 0.539 IOS – 0.543 KP – 0.024 DEBT + 0.299 KSP + 0.177 EARN + ε₁₇

Tabel 3. Test of Causality Effect IOS, Debt, Political Cost, and Market Concentration toward Earnings Management, Earning and Stock Price

<table>
<thead>
<tr>
<th>H Construct</th>
<th>Effect CR</th>
<th>Sign</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>H2 AR &lt;-- DA</td>
<td>0.086 0.086 0.000 0.086 1.648*** 0.099</td>
<td>Significant</td>
<td></td>
</tr>
<tr>
<td>H3 AR &lt;-- IOS</td>
<td>0.539 0.539 -0.035 0.504 Fix 0.754</td>
<td>Not Significant</td>
<td></td>
</tr>
<tr>
<td>H4 AR &lt;-- DEBT</td>
<td>-0.024 -0.024 -0.041 -0.064 -0.313 -4.954* 0.000</td>
<td>Significant</td>
<td></td>
</tr>
<tr>
<td>H5 AR &lt;-- KP</td>
<td>-0.543 -0.543 -0.022 -0.565 3.078* 0.002</td>
<td>Significant</td>
<td></td>
</tr>
<tr>
<td>H6 AR &lt;-- KSP</td>
<td>0.299 0.299 0.044 0.343 2.929* 0.003</td>
<td>Significant</td>
<td></td>
</tr>
<tr>
<td>H7 AR &lt;-- EARN</td>
<td>0.177 0.177 0.000 0.177</td>
<td>Significant</td>
<td></td>
</tr>
<tr>
<td>H8 DA &lt;-- IOS</td>
<td>0.086 0.086 0.000 0.086 1.648*** 0.099</td>
<td>Significant</td>
<td></td>
</tr>
<tr>
<td>H9 DA &lt;-- DEBT</td>
<td>-0.095 -0.095 0.050 -0.045 -1.007 0.314</td>
<td>Not Significant</td>
<td></td>
</tr>
<tr>
<td>H10 DA &lt;-- KP</td>
<td>-0.123 -0.123 0.000 -0.123 -1.076 0.282</td>
<td>Not Significant</td>
<td></td>
</tr>
<tr>
<td>H11 DA &lt;-- KSP</td>
<td>0.080 0.080 0.000 0.080 0.870 0.384</td>
<td>Not Significant</td>
<td></td>
</tr>
<tr>
<td>H12 KSP &lt;-- DEBT</td>
<td>0.056 0.056 0.000 0.056 1.110 0.267</td>
<td>Not Significant</td>
<td></td>
</tr>
<tr>
<td>H13 EARN &lt;-- IOS</td>
<td>-0.033 -0.033 -0.131 -0.164 -0.351 0.726</td>
<td>Not Significant</td>
<td></td>
</tr>
<tr>
<td>H14 EARN &lt;-- DEBT</td>
<td>-0.409 -0.409 -0.131 -0.164 -0.351 0.726</td>
<td>Not Significant</td>
<td></td>
</tr>
<tr>
<td>H15 EARN &lt;-- KP</td>
<td>-0.066 -0.066 0.000 -0.066 -0.592 0.554</td>
<td>Not Significant</td>
<td></td>
</tr>
<tr>
<td>H16 EARN &lt;-- KSP</td>
<td>0.209 0.209 0.000 0.209 2.318** 0.020</td>
<td>Significant</td>
<td></td>
</tr>
<tr>
<td>H17 DEBT &lt;-- IOS</td>
<td>0.330 0.330 0.000 0.330 3.288* 0.001</td>
<td>Significant</td>
<td></td>
</tr>
</tbody>
</table>

* Significant at level 10%, value table t at level 1% = 2.57
** Significant at level 10%, value table t at level 5% = 1.98
*** Significant at level 10%, value table t at level 10% = 1.64

The results show that earning management, political cost, market share, and earning have a significant effect to share price, whereas investment opportunity set does not have a significant effect to share price. Among variables which influence earning management, the debt has a significant effect while other variable (i.e., investment opportunity set, political cost, and market share) do not show significant outcomes. Variable that significantly influencing earning are only debt and market share, while other variable, investment opportunity set and political cost, do not show significant influence.

DISCUSSION

Previous researches, however, never attest statistically that each indicator contributes to Price-based Investment Opportunity Set (IOSp) and Investment-based Investment Opportunity Set (IOSi). The contribution is also developed Price-based Investment Opportunity Set (IOSp), Investment-based Investment Opportunity Set (IOSi), and Variant-based Investment Opportunity Set (IOSv). Research also concerns with confirmatory factor analysis (CFA) proving that Book to Market Value of Assets (MBVA), Tobin's Q (TOBIQ), Price Earning ratios (PER), Ratio of Depreciation to Firm Value (DFV), and Firm Value to Book Value of PPE (VPPE), contributed to Price-based Investment Opportunity Set (IOSp). Ratio of Capital Expenditure to Book Value of Assets (CEBVA), Ratio of Capital Expenditure to Market of Assets (CEMVA), and Investment to Net Sales Ratio (INS) contributed to Investment-based Investment Opportunity Set (IOSp), Investment-based Investment Opportunity Set (IOSi), and Variant-based Investment Opportunity Set (IOSv) contributed to Investment Opportunity Set (IOS) through beyond critical value for all dimensions.

Previous findings showed that earning management negatively influenced share price (Hartono, 1998 and 2000; Gul et al., 2003; and Ardiati, 2003); investment opportunity set (IOS) positively affect share price (Smith & Watts, 1992; Riahi-Belkoui, 2001; and Gul, et al., 2003); debt negatively affects share price (Gul, et al., 2003); political cost positively affects share price (Marwata, 1999; Diamond & Verrecchia, 1991, cited by Komalasari, 2000, and Gul, et al., 2003); market strength reflected from market concentration positively affects share price. Positive impact of investment opportunity set (IOS) variable on earning management has been found from Skinner (1993), Subramanian (1996), Riahi-Belkoui (2003), Gul (2003), Nuswantara (2004), and Chen, et al., (2008). Other findings indicate that debt positively affects earning management (Watts & Zimmerman, 1986, 1990; Nuswantara, 2004); political cost negatively affects earning management (Rajgopal, 1999; Gu, 2002; Riahi Belkeoui, 2003, Gul, et al., 2003; Nuswantara, 2004); and market strength reflected by market concentration negatively affects earning management (Nuswantara, 2004). Smith & Watts (1992) and Gul, et al. (2003) found positive effect of investment opportunity set (IOS) variable on earning, while other researches ascertain that debt negatively affects earning (Barclay & Smith, 1995; Gul, et al., 2003), political cost positively affects earning (Chaney & Jeter, 1992; and Warfield, et al., 1995), market strength reflected by market concentration positively affects earning (Nuswantara, 2004).

In addition to retesting previous research variables, results of this research confirm that earning management (DA), political cost (KP), market concentration (KSP), and earning (EARN) have significant effect on share price (AR), meanwhile investment opportunity set (IOS) does not have significant effect on share price (AR). Among variables affecting earning management (DA), only debt (DEBT) has a significant effect, while other variables (Investment Opportunity Set (IOS), Political Cost (KP), Market concentration (KSP) seem have no significant outcome. Among variables, only debt (DEBT) and market concentration (KSP) appear significantly affect earning (EARN), while others including Investment Opportunity Set (IOS) and Political Cost (KP) does not have significant effect.

Results of research clarify that SEM analysis with 350 observations (5 years in 70 companies) at manufacture companies listing at Jakarta Stock Exchange confers the following result. First, the negative impact occurs from investment opportunity set (IOS) against earning management. It means that managerial behavior to have earning management does not follow with fast company growth. Second, earning management positively affects share price (AR). This evidence describes investor's positive reaction to earning management. It also indicates that earning management conducted by Indonesian managers represents informative earning management. It may be investors seeming more confident to earning reporting though
research cannot give evidence that the company with investment opportunity set (IOS) may choose informative earning management. The result does not comply with estimation that company with higher investment opportunity set (IOS) manages its earning as a tool of private information with value relevant rather than hides opportunistically bad performance.

Third, research fails to support earning management theory. Healy (1985) and DeAngelo (1988) determine that managers consider opportunistically accrual to conceal any performances causing negative reaction of the market. Despite managerial opportunistically use of accrual, market still reacts it positively because market considers this managerial behavior as informative management.

Fourth, research does not agree with Gul, et al., (2003), Riahi-Belkoui (2003) and Jiraporn et al., (2008) findings that higher IOS companies tend to use earning as a tool of expressing value relevant private information rather than concealing opportunistic bad performance. Results of this research prove that when investment opportunity set grows higher, informative earning management becomes relatively more evident than opportunistnic earning management.

CONCLUSION AND SUGGESTION

Conclusion

Research concludes that (a) investment opportunity set based on share, investment, and variant, contributes to investment opportunity set. This result agrees with Bartholomew (1987) quoted in Mahfud (2004) that data simplification comes into consideration by combining observed variables into composite variables; (b) earning management, political cost, market concentration, and earning, provide significant effect on share price, while investment opportunity set does not significantly affect share price; (c) debt does not significantly affect earning management, while other variables (investment opportunity set, political cost, market concentration) seem without significant result; (d) debt and market concentration significantly affect earning, while other variables involving investment opportunity set and political cost do not have significant influence; (e) debt do not have significant effect on market concentration, and (f) investment opportunity set has significantly positive effect on debt.

Suggestion

Further consideration leads this research to suggests that (a) combination model of investment opportunity set still has a chance to add other investment opportunity set proxies, such as ratio of R&D expense to total assets (Smith & Watts, 1992; Gaver & Gaver, 1993; Kallapur & Trombley, 1999; and Hartono, 1998), ratio of R&D expense to sales (Skinner, 1993; and Kallapur & Trombley, 1999), ratio of capital additions to firm value (Smith & Watts, 1992; Kallapur & Trombley, 1999; and Jones & Sharma, 2001), Ratio of capital addition to assets book value (Subekti & Kusuma, 2001; Skinner, 1993; Kallapur & Trombley, 1999), Investment to earning ratio (Hartono, 1998), and Ratio of R&D expense to firm value (Skinner, 1993; Kallapur & Trombley, 1999), and (b) model used in this research may be developed through using interaction of investment opportunity set, debt, political cost, and market concentration, and earning management after considering moderating effect of earning management on share price.

REFERENCES

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