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Abstract—A business environment with high competition requires higher efficiency, not just operating efficiency but also the funding efficiency. One of the causes of funding inefficiency is the high cost of debt as a result of earnings management practices that can reduce investor confidence in the company's financial statements. The practice of earnings management has attracted practitioners, researchers, and regulators by developing various detecting models and developing standards such as International Financial Reporting Standard (IFRS). To analyze the effect of earnings management on cost of debt, this study uses three approaches: competing-component model, business model, and discretionary revenue model. The approach used is to review the capability of the linear regression model that is formed and to perform comparative analysis among the regression models formed by data from manufacturing companies listed in the Indonesia Stock Exchange for the years 2007-2011 as data before the IFRS implementation and 2012-2015 for data after the IFRS implementation. Based on the results of data processing obtained evidence that earnings management negatively affect the cost of debt using the three approaches but the model formed with business model approach has stronger than the regression equation formed with other models. When compared to the period before and after the implementation of IFRS, seen earnings management practices have decreased and the effect on the cost of debt becomes smaller.

Keywords—Earning Management; Cost of Debt; IFRS

I. INTRODUCTION

At this time there is increased intensity of competition between companies. The main cause of the increase in competition is because competition has occurred not only within a country but also between countries. Regulatory
Introduction

Information asymmetry is a significant issue in financial markets, as it refers to the difference in the quality of information available to different parties. This research examines whether the implementation of International Financial Reporting Standards (IFRS) in Indonesia can reduce information asymmetry.

The study aims to determine whether IFRS implementation led to a reduction in information asymmetry in Indonesia, based on the theory that the actions taken by management in order to improve the quality of information can reflect risk, where low earning quality is a high risk of default.

Methods

The study conducted a literature review and analyzed data from various sources to determine the impact of IFRS implementation on information asymmetry in Indonesia. The results are consistent with previous studies concluding that the Indonesian capital market is not efficient.

Results

The results of this study indicate that Indonesia is ranked in the last of 34 countries studied in the informative earnings accounting (earning opacity). These results reinforce the notion that there is a high probability of CoD as a result of high investment risk within the company. The risk in this case is the risk as a result of the quality of information published by the company. The company does not provide information that enables investors to forecast the beliefs about the future of the company so that investors increase the CoD as compensation for the risk of unclear information.

Discussion

Earning Management (EM) activity is theoretically one of the causes of the lack of informativeness of financial statements. This is still a debate because some research concludes that EM improves the quality of information.

The results of this study support the theory that the actions taken by management in order to improve the quality of information can reflect risk, where low earning quality is a high risk of default.

Conclusion

The implementation of IFRS in Indonesia could reduce information asymmetry and improve the reliability of financial statements in predicting future circumstances.
2. Credit Rating (Bond Rating) although not used directly as a proxy of CoD, but credit rating is often used as an illustration of the condition of the debt because the rational credit rating greatly affect interest rates. A good rating will make CoD relatively smaller and vice versa. Credit Rating is a credit rating of a company issued by a rating agency. Some studies that use credit ratings such as (12) using the S & P credit rating, (21) uses ratings from various sources available in the Compustat database, (13) using The Taiwan Corporate Credit Risk Index (TCRI).

B. Earning Management (EM)

Performance measurement is one of the most important aspects of successful enterprise management. Regarding performance measurement, profit becomes the most important part that is often used as the basis of assessment. This perspective drives profit into an object laden with interests. Profit informativity becomes one of the readers request financial statements in order to conduct an assessment of future profits and risks associated with the company. There is a considerable amount of empirical research related to the association between earnings and stock prices. Research (18) shows that the relationship between earnings and stock prices is higher than other estimates in financial statements such as sales, cash flow, inventory turnover, and so on.

The second role of accounting is related to company management. This arises in tandem with a clear separation between the owner of the company (shareholder) and management especially for the open company. Agency theory explains that along with the separation of the function in which management has a personal interest, the conformity between the company's objectives and the owner's goals can not be guaranteed. The financial statements, especially the calculation of profit into one of the gauges how management performs its functions as an agent of the owner. Based on that (22) states that one of the functions of the financial statements is to limit management to act in the interests of management.

The definition of Earning Management (EM) varies considerably depending on the underlying perspectives of the expert trying to define the definition. Some of these meanings are negative while others are positive. The notion is complementary, so it is difficult to make a complete definition and cover all aspects of EM. In general, the definition of EM can be divided into three groups: the definition that views the EM as a bad action (a negative point of view), a definition that views EM as an action that aims to increase firm value (positive), and a neutral definition.

From a negative point of view of the EM, it can be said that EM is an action that uses various mechanisms aimed at misinterpreting the financial statements in interpreting the financial statements for management purposes. This will reduce the transparency and informativeness of the financial statements. In this sense EM is an action that should not be done and will be a loss or cost to investors. On the other hand, some experts view EM as an action that can increase the value of the company. This understanding explains that EM is an opportunity the manager conveys her expectations through the information she has about future cash flow. The assumption that management did EM to share private information to the public was also submitted by (23).

Differences in outlook on EM are also evident from studies conducted within the EM area. The study, which tends to be in the opportunistic earning management type, concludes that EM is driven by management's desire to obtain higher (24), avoiding loss reporting and profit decline (25) and other research. The EM action in this negative perspective is carried out by management by making decisions that alter the financial statement information so that the published report describes the company in a condition consistent with the expectations of external parties in which the conditions tend to benefit. In this perspective, earnings management has violated the purpose of financial reporting to be present useful information in decision-making of interested parties.

C. Implementation of International Financial Reporting Standard (IFRS)

The development of business that leads to globalization has pushed the need for reporting standards so that the financial statements generated by the company can be understood globally. The issue of standardization is a major concern that encourages accounting stakeholders to seek a breakthrough to achieve that goal. After attempting various mechanisms, adoption and harmonization of International Financial Reporting Standards (IFRS) became the way forward to encourage the standardization of financial statements.

Gatsios (10) states that IFRS is a set of accounting standards issued by the International Accounting Standards Board (IASB) aimed at producing a high quality typical model for international accounting standards to provide information to users of financial statements. Ball (26) states clearly that the presentation of financial statements based on IFRS will make the financial statements more reliable by investors because it is easy to understand so as to reduce information asymmetry. Lee (27) expressed a similar opinion that international standards will increase disclosure of information that reduces information asymmetry and thus reduces risk.

In addition to standardization issues, IFRS leads to the improvement of the quality of the company's financial statements. Epstein (28) say that IFRS requires a high standard, transparency, and capability compared with other financial statements to help investors in global markets and other financial statement users. Turkey (8) emphasizes one of the benefits of IFRS's focus on the fair value concept by saying that the concept of fair value facilitates investors who need the most up-to-date information in their decision-making as they understand the company's last condition for cash forecasting. The two opinions above conclude that IFRS implementation will improve the quality of financial statement information.

Based on the above, theoretically can be said that the implementation of IFRS can encourage the reliability of financial statements because the information presented more informative and updated. Conceptually this will reduce information asymmetry sourced from information differences that are known by management than information that can be
obtained by investors including one of the financial statement information. This theoretical concept has encouraged various studies to test these allegations.

Several studies focused on examining the impact of IFRS implementation on the company. Li's research (29) and (30) show that the implementation of IFRS encourages a decrease in the cost of equity borne by the firm. Different results are shown by Gao (7) that disclosure of new information presented as a result of IFRS implementation can not improve investors' predictive capabilities.

Turkish Research (8) states that IFRS implementation contains key factors that can reduce information asymmetry, thus lowering the cost of equity. Mohammadrezaei (9) conducted a literature study and concluded that the majority of research concludes that IFRS implementation reduces information asymmetry which reduces cost of equity but still recognizes that some research has led to different conclusions.

III. CONCEPTUAL FRAMEWORK

A. Effect of Earnings Management on Cost of Debt

Earning management actions by management by utilizing their access to discretionary accruals will degrade the quality of information so as to enhance information asymmetry. The results of (31) specifically give conclusions that make a significant contribution in the formation of this research is that earning management gives a positive influence on cost of equity either directly or through information asymmetry. Other studies (32), (33), and (34) yield the same conclusion that earning management has a positive effect on cost of equity. Bhattacharya (1) also provides a complete picture of the overall aspects of earning management that make financial reports less informative. Research Miller and Martinez (35) who examines the relationship of earning management with debt concluded the negative effect of earnings management on credit rating, which means earning management has a positive effect on cost of debt. The study is in line with (36) who found empirical evidence that rating agencies will lower credit ratings if it detects management earning management.

However, (37) needs to be considered because it gives different results while conducting research with span of up to 30 years with the number of samples reached 6,076 companies actually resulted in the conclusion that there is no effect of income smoothing one way from earning management to cost of equity. Arya (38) who also conducts research in the United States finds the fact that earning management actions by managers do not always adversely affect investors. Fattouh (39), which examines the relationship of earning management with debt concluded the negative effect of earnings management on credit rating, which means earning management has a positive effect on cost of debt. This study is in line with (36) who found empirical evidence that rating agencies will lower credit ratings if it detects management earning management.


Implementation of International Financial Reporting Standard (IFRS) will be used as a subset variable forming sample. This means that the researchers suspect there will be differences in influence between variables studied before and after the implementation of IFRS. This is driven by the IFRS development concept that seeks to reduce information asymmetry [(26), (27), (28)]. The decrease in information asymmetry is derived from improving the quality of information and more complete disclosure. Not only have an effect on information asymmetry, but IFRS implementation based on various empirical studies is also able to decrease cost of equity and cost of debt (29,30).

The separation of this sub-sample is also very much in line with the results of (9) and (8) that there are significant differences in accounting practice in the areas studied in each of these studies. Due to the compatibility between these various empirical studies with the objective of IFRS implementation to reduce information asymmetry then this research will conduct multigroup procedure to obtain empirical evidence that implementation IFRS gives a difference for the influence between the variables studied. This procedure will be performed for all pathways to and from the information asymmetry variable.

IV. METHODOLOGY

This study was conducted on manufacturing companies listed on the Indonesia Stock Exchange during the period of observation 2007 to 2016. The sample companies were selected as many as 129 companies with the number of observed financial statements of 1,161 10-year financial statements. The CoD measurements in this study will follow the measurements used by various studies such as (14), (40), (16), (15), and others. The formula used is:

\[
\text{CoD} = \frac{\text{Interest Expense}}{\text{Average Interest Bearing Note}} \times 100\%
\]

Approach measurement of Earning Management (EM) will use approach built by (41) that is Business Model, that is as follows:

\[
TA_{t} = \left( \beta_{0} + \beta_{1} \Delta \text{REV}_{t-1} + \beta_{2} \Delta \text{PE}_{t-1} \right) + \beta_{3} \text{ROA}_{t-1} + \beta_{4} \text{NCW}_{t-1} - \beta_{5} \text{NCWC}_{t-1} + \beta_{6} \text{LE}_{t} + \beta_{7}
\]

<table>
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<th>Coefficient</th>
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<td>( \beta_{0} )</td>
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</tr>
<tr>
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</tr>
<tr>
<td>( \beta_{2} )</td>
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</tr>
<tr>
<td>( \beta_{7} )</td>
<td>0.003</td>
</tr>
</tbody>
</table>

Approach measurement of Credit Rating (CR) will use approach (42) that is Business Model, that is as follows:

\[
\text{CR} = \beta_{0} + \beta_{1} \text{REV}_{t-1} + \beta_{2} \text{PE}_{t-1} + \beta_{3} \text{ROA}_{t-1} + \beta_{4} \text{NCW}_{t-1} - \beta_{5} \text{NCWC}_{t-1} + \beta_{6} \text{LE}_{t} + \beta_{7}
\]
Advances in Economics, Business and Management Research (AEBMR), volume 46

TC_i,t : Total Accrual perusahaan i pada period t
INT : Intercept atau konstanta
ΔREV_i,t : Perubahan dalam penjualan.
PPE_i,t : Property, Plant, and Equipment perusahaan i pada periode t
A_{i,t-1} : Total Asset perusahaan i pada periode t-1.
ROA_{i,t-1} : Return on Asset (ROA) perusahaan i pada periode t-1
NCWC_{i,t-1} : Non Cash Working Capital (NCWC) (Aktiva lancar dikeluarkan dari hutan lancar dengan mengeluarkan proporsi hutang jangka panjang yang akan jatuh tempo dank as) yang dideflasikan dengan asset periode sebelumnya

\[
\text{NCWC}_{i,t-1} = \frac{1}{3} \sum_{k=2}^{4} \text{NCWC}_{i,t-k}
\]

Dep : Depreciation rate (Beban depresiasi dibagi PPE)

Hypothesis testing will be used with regression analysis whereas to see the effect of IFRS implementation will use multigroup analysis (42).

V. DISCUSSION

This research is a preliminary research so that the developed model is relatively simple. The focus of this research is related to earnings management, debt costs, and IFRS implementation. Before conducting further analysis, a descriptive analysis of these variables is performed. This is done to obtain more complete framework for the next stage of analysis.

Earnings management practices decreased slightly after IFRS implementation. This is evident from the declining discretionary accrual value calculated using the business model (41). The decrease in value is particularly evident during grouping of samples before and after the implementation of IFRS. The IFRS implementation period prior to 2012 has a higher average value of discretionary accruals over the next period. Although it cannot be said that this is really an impact of IFRS implementation, it is in line with one of the objectives of IFRS implementation that wants to reduce information asymmetry that increases investment risk.

On the other hand, the value of Cost of Debt (CoD) also decreased in the period after IFRS implementation. In this case, there is indeed potential for inaccurate analysis because the interest rate trend has decreased along with the Indonesian economy leading to low-interest rates. To minimize analysis error, a comparison analysis of the BI rate difference with the average of debt interest rate before and after IFRS implementation will be conducted. Based on this, there was a decrease of 5.5% to 4.6% from before and after IFRS impedation. The smaller value of the difference indicates that the risk premium demanded by the investor against the uncertainty that will be incurred by the decline. This means investors are increasingly able to pass rational estimates of the risks associated with their investments.

In the analysis of earnings management relationship to the cost of debt obtained data test results indicate that earnings management significantly influence the cost of debt with a significance value of 0.032. It means that overall both before and after the implementation of IFRS there is influence of earnings management to the cost of debt. Furthermore, to find out whether there are differences in the relationship pattern between the two variables after the application of IFRS, multigroup testing where the regression coefficients for the regression analysis before and after the IFRS implementation test the difference. Based on the multigroup analysis, it can be concluded that there is a difference of influence of earnings management to the cost of debt before and after the ban IFRS. This is in line with previous research that has been summarized by Mohammaderazei (9).

VI. CONCLUSION

Based on the results and discussions that have been submitted earlier, it can be concluded that the implementation of IFRS has an impact on declining earnings management practices undertaken by the management of manufacturing companies. This also has an impact on the decline in the value of Cost of Debt which means the risk premiums imposed on investment activity decreased. On the other hand the effect of earnings management on cost of debt changes before and after the implementation of IFRS.

References