

JIA (Jurnal Ilmiah Akuntansi) • 8 (1), 225-244 • 2023



How Temporary Book Tax Differences Influence Earning Quality? An Integrated Analysis with Investment Opportunity Set and Human Capital

Jacobus Widiatmoko¹, Maria Goreti Kentris Indarti^{1,*}, Luluk Muhimatul Ifada²

¹Faculty of Economics and Business, Universitas Stikubank, Jl. Tri Lomba Juang, Semarang, Jawa Tengah, Indonesia ²Universitas Islam Sultan Agung, Jl. Kaligawe Raya No.Km.4, Semarang, JAwa Tengah, Indonesia

*kentris@edu.unisbank.ac.id

CITATION:

Widiatmoko, Jacobus, Indarti, Maria Goreti Kentris, & Ifada, Luluk Muhimatul (2023). How Temporary Book Tax Differences Influence Earning Quality? An Integrated Analysis with Investment Opportunity Set and Human Capital. *JIA* (Jurnal Ilmiah Akuntansi), 8 (1), 225-244.

ARTICLE HISTORY:

Received:

April 22th, 2023 **Revised:**

June 29th, 2023

Accepted:

August 20th, 2023

DOI: 10.23887/jia.v8i1.60842

Abstract

We examined three variables, including the differences of temporary book tax, investment opportunity sets, and human capital to recognize if any of these variables have different impact on earnings quality. The population use of this research is manufacturing companies listed on the Indonesia Stock Exchange in 2017-2021. Based on the purposive technique, a total of 338 data were obtained. By using ordinary least square technique of analysis, the test results reveal that the differences of temporary book tax have a negative impact on quality of earnings and the investment opportunity set has a positive impact on quality of earnings. Meanwhile, human capital has no impact on quality of earnings. Our study provides insight that the differences of temporary book tax and investment opportunity sets are important information that must be considered by investors in analyzing the quality of company earnings, so that investment provides optimal returns.

Keywords: earnings quality; book tax differences; investment opportunity sets; human capital

INTRODUCTION

Earnings is one of the important information presented in the financial statements. Accounting earnings provides important information that goes beyond cash

flow and is used as a key performance measure by various users (Dechow, 1994; Khajavi et al., 2016), such as investors, regulators, and accounting researchers (Ismail et al., 2021). Earnings is said to be qualified if the earnings can be used by investors to predict abnormal earnings in the incoming (Feltham & Ohlson, 1995). Earnings is considered to have high quality if the earnings is able to as function а tool to predict sustainable earnings. Therefore, earnings will be considered of poor quality if they result from a financial that does reporting process consider sustainable earnings. other words, quality earnings describe the company's real ability to survive in the future. Of the many company decisions based on profit information, it shows quality earnings (Dechow & Dichev, 2002; Krismiaji & Sururi, 2021).

Currently, the quality of financial information. company especially earnings, is still the most important financial problem in capital of developing countries, markets including Indonesia. Accounting profit provides important information about company performance and is the main indicator for users as a basis for decision making (Khajavi et al., 2016; Salehi & Sehat, 2019). Quality profits will have an impact on the quality and accuracy of decision making (Lin et al., 2016). In other words, earnings quality can provide a real picture of the company at this time and an overview of the company's ability to survive in the future. Quality profits

can be proven by the many company decisions made based on profit information (Dechow & Dichev, 2002; Krismiaji & Sururi, 2021).

On the other hand, investors' concerns about earnings quality have increased in recent years, as many international companies announce non-actual earnings and report provisional information as part of company interim reports. This causes investors to be more careful evaluating net income and using this information to determine company value (Hamdan, 2020; Khajavi et al., 2016; Krismiaji & Sururi, 2021). This condition is understandable given the many cases of fraudulent financial reporting by companies. Fraud in financial reporting can occur because an employee intentionally commits a material misstatement, omissions of information in the organization's financial reports, for example, an employee submits a false expense report claiming non-existent personal travel or meals (ACFE, 2022).

The Association of Certified Fraud Examiners (ACFE, 2022) in their Report to the Nations: global study on occupational fraud and abuse reports that there are three primary categories of occupational fraud. One of the three main categories is financial statement fraud by 10% but contributed the largest

loss of \$ 954,000. The phenomenon of fraud in financial statement also occurs in Indonesia. Based on the 2019 Indonesia Fraud Survey report, financial statement fraud in Indonesia reached 22 cases out of 50 cases of misappropriation of state & company assets or wealth. The amounts of losses incurred was 242,260,000,000 out of a total loss of 873,430,000,000 or around 9.2%.

The phenomenon of fraudulent financial reporting indicates a failure in financial reporting, which is the source of information main stakeholders in making decisions. Fraudulent financial statements have attracted the attention of researchers to examine various factors that affect earnings quality. These factors include book tax differences (Abdullaev & Park, 2019; Ashma' & Rahmawati, 2019; Widiatmoko & Indarti, 2019), investment opportunity set (Andriani et al., 2021; Narita & Tagwa, 2020; Widiatmoko & Indarti, 2018) and human capital (Handi et al., 2022; Kalalo & Sofian, 2022; Khajavi et al., 2016; Sowaity, 2022).

Related to earnings, there is a phenomenon of book tax differences, which is the difference between accounting earnings and fiscal income (Chi et al., 2014). Previous studies have shown that tax information in a company's financial statements

provides information about earnings quality (Blaylock et al., 2012) and investors use book tax differentials as a means of assessing earnings quality.

Until now, more research on book tax differences and their effect on earnings quality has been carried out by researchers in developed countries (Fadilah & Wijayanti, 2017; Widiatmoko & Indarti. 2019). It cannot be denied that developing like countries Indonesia have differences from developed countries, both in terms of economy and society 2016). (Waluyo, Some of characteristics of developing countries are weak capital markets, low law enforcement and concentrated corporate ownership. In addition, there are fundamental differences in accounting standards and regulations between developing and developed countries. This condition can lead to information asymmetry, making it difficult for investors to assess company performance and make rational investment decisions (Ismail et al., 2013). Different laws and regulations in each country also allow for different research results (Fadilah 2017). Therefore, & Wijayanti, understanding the relationship between book tax differences and changes in future earnings in the Indonesian context is very important. This understanding will assist users of financial statements in accurately predicting the effects of various book tax differences. For researchers, this understanding will also assist them in interpreting the literature and results of previous studies (Jackson, 2015).

Book tax differences are the difference in magnitude between commercial income and fiscal income. Temporary book tax differences occur due to differences in revenue and expense recognition periods based on accounting standards regulations. The risk arising from the the difference between accounting earnings and fiscal income is the lower the quality of earnings (Noga & Schnader, 2013).

A transaction can be recognized based on accounting standards, but recognized based regulations (Sonnier et al., 2012). This difference is only temporary because it will be identified in the next period. In the end, accounting standards and tax regulations will recognize all transactions, it's just that there is a difference in recognition time between the two. Differences in recognition occur in transactions that include the calculation of compensation for losses, inventory valuation, amortization, depreciation, and accrual and realization.

With this difference in recognition, the company has the

flexibility to use profitable methods to increase its revenue (Abdullaev & Park, 2019). This condition provides an opportunity for management to carry out earnings management as a corporate planning strategy. This action will be responded negatively by the market, so that the value of the earnings response coefficient as a proxy for earnings quality will decrease. Some researchers report the higher the differences of temporary book tax the lower the quality of earnings (Ashma' & Rahmawati, 2019; Widiatmoko & Indarti, 2019). Companies that higher have differences of temporary book tax experience a decrease in the level of quality of earnings. Abdullaev & Park (2019) who tested companies in Korea reported that companies with larger differences in temporary book tax had lower persistence. In contrast, the results of Huang and Wang's (2013) study prove the higher the differences of book tax the higher the quality of earnings.

Investment Opportunity Set (IOS) is an action that may occur on investment occasions in the future that may have an impact on the development of company assets or projects that have a positive net present value. IOS has an important role for companies because IOS is an investment decision in the form of a

combination of assets owned (assets place) and alternative future investments (Murwaningsari & Rachmawati, 2017; S. C. 1977). Companies with high investment opportunities sets have high growth occasion, so they can obtain high returns (profits). The market will respond positively to this, increasing thereby the earnings response coefficient which is a proxy for earnings quality (Andriani et al., 2021; Yasa et al., 2019). Several studies have proven that investment opportunity set owned by a company have positive effect on earnings quality (Andriani et al., 2021; Handi et al., 2022). In contrast, Widiatmoko & Indarti (Widiatmoko & Indarti, 2018) that the investment reported opportunity set has a negative impact on earnings quality. Whereas Indarti et al. (2021), Ashma & Rahmawati (2019) and Yunita & Suprasto (2018) prove that the investment opportunity set has no impact on the quality of earnings.

On the other hand, intellectual capital is the main factor in creating performance long-term and competitive company's advantage. Human capital the main component of intellectual capital, is a combination of the skills, abilities, experience, and expertise of employees obtained through their training and

experience (Ahangar, 2011; Smriti & Das, 2018). Well-managed human capital will create a company's competitive advantage which will influence improving company achievement, so that the market will respond positively. The increase in the earnings response coefficient as a proxy for quality of earnings indicates that the company's earnings quality is getting better. Several studies have proven that intellectual capital which contains human capital has a positive impact on quality of earnings (Kalalo & Sofian, 2022; Khajavi et al., 2016; Sowaity, 2022). However, Handi et al. intellectual (2022)reported that capital has no impact on quality of earnings.

Previous research findings show mixed results regarding the impact of the differences of temporary book tax, investment opportunity sets and human capital on quality of earnings. In addition, more research related to earnings quality has been carried out in developed countries and little has been done in emerging countries (Namazi & Rezaei, 2016). This opens opportunities to further investigate similar issues using a different earnings quality measure, namely the earnings response coefficient. High quality earnings are characterized by several characteristics, namely (1)

sustainable, (2) free from errors and manipulation, (3) informative, (4) an accurate measure of value creation or (5) conservative. The informativeness high-quality earnings measured based on market reactions which are reflected in stock returns on announced earnings information. which is called the earnings response coefficient (Melgarejo, 2019; Nissim, 2021; Widiatmoko & Indarti, 2018). Earnings response coefficient shows the responsiveness of investors to profits announced by companies and is a direct proxy for earnings quality (Bilal et al., 2018; Elsiddig Ahmed, 2020). This study uses data from a long observation period of five years, which is expected to enrich the literature on earnings quality. If the company makes accounting choices that can reduce the accruals reflected in the temporary book tax differences, then the market response will be better. The same thing happens if management has higher investment opportunities and has increasingly superior resources which are reflected in human capital, then the market will respond positively, which means the quality of earnings will be higher. In addition to these three main variables, this research uses two control variables including leverage profitability. The goal is to improve the research model.

LITERATURE REVIEW AND HYPOTHESES DEVELOPMENT Earnings Quality in Agency Theory Perspective

Public companies have high agency costs due to greater dispersion of ownership, separation between owner-managers, and less managerial ownership (Gao et al., 2013; Nissim, 2021; Shen et al., 2019). Managers of public companies are also targeted to capital market pressure to fulfill investors' expected returns and often have sets of equity-based compensation, inducing management to engineer reported earnings. These increased costs and stimuluses can result in greater engineering earnings (Givoly et al., 2010). On the other hand, public company management will be motivated to create strong governance due to the presence of high agency costs. In ownership and regulation are dispersed, public companies have ability to limited communicate privately with stakeholders. Therefore, management used high-quality reporting as a surrogate for insider access (Hope et al., 2013).

Temporary Book-Tax Differences and Quality of Earnings

The concept of agency views that agency frictions occur because managers have the flexibility to determine accounting policy methods that can maximize the interests of managers without thinking about responsibility to shareholders, resulting in agency costs. Temporary differences can furnish information to shareholders about management's flexibility in the accrual process, due to the limited freedom of accounting policy methods allowed in measuring fiscal profit which has an effect on lowering net income (Widiatmoko & Indarti, 2019). As the gap between income based on accounting standards and income according to taxation is greater, there will be an escalated risk of deteriorating quality of earnings (Noga & Schnader, 2013). This is based on the opportunistic nature of humans in agency theory where management has more flexibility in choosing accounting policy which is reflected in temporary differences, including taking advantage of opportunities in the results of differences in Financial Accounting Standards (SAK) and tax regulations, resulting in distortions in the book tax gap (Putri & Sujana, 2018). The logic of thought above is aligned with the inventions of several researchers in Indonesia (Ashma' & Rahmawati, 2019; Waluyo, 2016; Widiatmoko & Indarti, 2019), who reported that differences of temporary book tax have a negative impact on quality of earnings. Abdullaev & Park's (2019) research on Korean KOPSI companies and Huang & Wang (2013) on banking companies in Taiwan also showed the same results. The higher the differences of the temporary book tax, the lower the quality of earnings. According to the logical think above, the hypothesis is formulated as follow:

H₁: The higher the temporary book tax differential, the lower the quality of earnings.

Investment Opportunity Set and Quality of Earnings

Investment opportunity set (IOS) is an investment opportunity owned by a company in the form of a combination of assets and becomes an investment option in the (Indarti et al., 2021; Murwaningsari & Rachmawati, 2017; Myers, According to the perspective of agency theory, investment opportunity sets can be a means to minimize problems that arise in the agency relationship between management and principals investment decisions through management. Companies that have high investment occasions will have high growth in the future, which affects escalated company profits. This condition will be valued positively by the market because companies with high growth occasions will furnish high returns in the future (Al-Gamrh et al., 2020; Handi et al., 2022; Rusdi et al., 2021; Yasa et al., 2019). Several studies have proven companies with that higher investment opportunity sets will also have higher earnings response coefficients. which means that companies have better quality of earnings (Andriani et al., 2021; Handi et al., 2022). According to explanation above, the following hypothesis is formulated.

H₂: Investment opportunity set positively influence on earnings quality.

Human Capital and Earnings Quality

Information asymmetry is a problem that arises in the agency relationship between management and principals (Namazi & Rezaei, 2016). These problems can be minimized through the disclosure of information by companies, including intellectual capital information. Intellectual capital is a non-financial asset that has no physical form but has value to create excellence in the future. Conceptually intellectual includes multidimensional, capital which is a combination of human capital, structural capital relational capital owned by a company (Mention & Bontis, 2013).

Human capital is а combination of the skills, abilities, experience, and expertise of employees obtained through their training and experience (Ahangar, 2011) and is the main component of intellectual capital which is the key to the success of a company. Human capital that is owned and managed properly by the company is the company's main capital to achieve competitive advantage which will have an impact on improving company performance (Bayraktaroglu et al., 2019). Superior quality resources and good company performance will be encouraged by management to disclose it in the annual report, so that investors understand the process of creating company value. Companies quality resources will also tend to reduce the level of earnings manipulation, which means earnings quality increases (Mangena et al., 2010). This good performance will be responded positively by the market, so that the earnings response which is coefficient, a proxy for earnings quality, will increase. Investors will have more confidence in companies with good quality human capital because they can reduce investment risks and achieve returns as expected. Several empirical findings prove that the more quality human capital one has, the higher the quality of reported earnings (Kalalo & Sofian, 2022; Khajavi et al., 2016; Sarea & Alansari, 2016; Sowaity, 2022). Based on the logic of thought and the support of the research results, the following hypothesis is formulated.

H₃: Human capital positively affects quality of earnings.

METHOD

Manufacturing companies listed on the Indonesia Stock Exchange (IDX) in 2017-2021 are the population of this study. The selection of the sample used a purposive sampling method with the following announced audited criteria: 1) financial reports, 2) experienced no loss before or after tax, and 3) had the required data. Based on these criteria, 537 data were obtained. This study uses one dependent variable, namely quality earnings as proxied earnings response coefficient (ERC), three independent variables, including temporary book tax differences (TBTD), investment opportunity set as measured by the ratio of market value to book value of assets (MVBVA) and human capital as measured by value added human capital (VAHU), as well as two control variables, namely profitability as measured by the ratio of return on assets (ROA) and leverage which is measured by the ratio of debt to total assets (DTA). Operational

definitions and variable measurements are presented in Table 1.

The hypotheses in this study were tested using ordinary least squares (OLS) regression with the following equation:

EQ = α + β 1 TBTD + β 2 IOS + β 3HC + β 4LEV + β 5ROA + \in

Where:

EQ : Earnings quality TBTD : Temporary book-tax

differences

IOS : Investment opportunity set

HC: Human capital

LEV : Leverage

ROA : Return on assets.

a : Constant

β : Regression coefficient

€ : Standard Error

RESULTS AND DISCUSSION

Descriptive statistics

Descriptive statistics related to all variables used in this study are presented in Table 2. The earnings response coefficient (ERC) as a proxy for earnings quality has an average value of 0.0156 with a standard of 0.0651. This deviation value expresses that the market response to the company's unexpected profit is The temporary positive. book-tax difference has a minimum value of -0.5103 and a maximum value of 0.5175. This value indicates that the level of accounting earnings is greater than taxable earnings, or vice versa.

Table 1. Operational Definition and Variable Measurement

Variables	Operational definition	Measurement	Reference
Earnings Quality (EQ)	Earnings Response Coefficient can be interpreted as a measure of market response (cumulative abnormal return/CAR) to unexpected earnings (EU) through regression results	$Rit = \frac{P_{it} - P_{it-1}}{P_{it-1}}$ $Rmt = \frac{IHSG_{it} - IHSG_{it-1}}{IHSG_{it-1}}$ $ARit = Rit - Rmt$ $CAR_{t+3,t-3} = \sum_{t-3}^{t+3} AR_{it}$ $UE = \frac{E_{it} - E_{it-1}}{E_{it-1}}$ $CAR_{it} = \alpha + \beta_1 UE + \varepsilon$	Widiatmoko dan Indarti (2018b) Yasa et al. (2019)
Temporary Book-Tax Differences (TBTD)	The difference between taxable income and net income	$TBTD = rac{Total\ Beda\ Temporer}{Rata - Rata\ Total\ Ase}$	Widiatmoko dan Indarti (2019)
Investment Opportunity Set (IOS)	Ratio between market value and book value of assets	MVBVA = Tot Asset — Tot Ekuitas + (J.Saham Beredar × closing pro	Yasa et al. ice) (2019)
Human Capital	The comparison of value added (difference in income/output and all expenses except employee/input expenses) with human capital (employee expenses)	$VAHU = \frac{VA}{HC}$ $VA = OUTPUT - INPUT$	Bayraktaroglu (2019)
Leverage (LEV)	Ratio between the total value of debt and the value of total assets as a percentage of funds by creditors to the company	$LEV = \frac{Total\ Hutang}{Total\ Aset}$	Vidiatmoko dan Indarti (2019)
Profitabilitas (ROA)	The ratio between net income and total assets	$ROA = \frac{Net\ Income}{Total\ Aset}$	Widiatmoko et al. (2020)

Table 2. Descriptive statistics

Variables	N	Minimum	Maximum	Average	Std. Deviation
EQ	338	-0.1341	0.2363	0.0156	0.0651
TBTD	338	-0.5103	0.5175	-0.0050	0.0541
IOS	338	0.3580	18.3979	1.5939	1.7739
HC	338	0.2365	10.9727	2.2539	1.5882
LEV	338	0.0651	4.9011	0.4875	0.3498
ROA	338	0.0003	0.9210	0.0658	0.0959

Note: EQ = earnings quality; TBTD = temporary book tax differences; IOS = investment opportunity set; HC = human capital; LEV = leverage; ROA = return on assets

The average value of -0.0050 demonstrates that the sample firms have higher accounting earnings than

their taxable income. Investment opportunity set has the lowest value 0.3580, the highest value is 18.3979

and the average value is 1.5939. The average value of 1.5939 indicates that on average the sample companies have high investment opportunities. Human capital has the highest value of 10.9727 and the lowest value of 0.2365. The average value of 2.2539 indicates that the resulting value added is 2.2539 times the salary expense issued Leverage has maximum value of 4.9011. minimum value of 0.0651, and an average of 0.4875 with a standard deviation of 0. 0651. The average value of the sample companies has a debt of 48.75% of the total assets owned. The minimum return on assets of the sample companies is 0.0003 indicating that the lowest profit for the sample companies is 0.03% of the total assets owned. The average sample company generates a net profit of 6.58% of its total assets.

Regression Testing Results

Before testing the hypothesis with ordinary least squares regression, tests for the fulfillment of normality and classical assumptions are first performed. The normality testing result in the first stage with a total of 537 data showed a z skewness value of 17.5616 above 1.96 so that the residual errors were not normally distributed. Therefore, it is necessary to transform the data by eliminating

the extreme data (outliers), so that the number of data becomes 338. The Z skewness value of the test after data transformation shows a figure of 1.1875, lower than 1.96 which means the residual error is normally distributed.

Classical assumption testing includes heteroscedasticity, multicollinearity, and autocorrelation. The output of the heteroscedasticity test using Glejser is presented in Table 3. Based on the information in Table 3, it can be detected that the significance value of all predictor and control variables is above 0.05. The results of the multicollinearity test offered in Table 4 show that all independent variables have a variance inflation factor (VIF) value under 10. Table 4 also provides a Durbin Watson score of 2.041, which is between the du value (1.846) and 4du (2.154). Therefore, the regression model can be used in this study there because are no heteroscedasticity, multicollinearity, and autocorrelation problems.

Table 4 presents the results of the ordinary least squares regression test. Based on the information in Table 4, the adjusted R2 value is 0.111. This figure shows that the book tax differences, investment opportunity set, human capital and leverage as well as return on assets

Table 3. Heteroscedasticity Test Results

	Unsta	ndardized	l Coefficients	Standardized		
Model				Coefficients	t	Sig.
	β		Std. Error	β		
TBTD		-0.01	0.041	-0.024	-0.430	0.667
IOS		0.00	0.001	0.085	1.291	0.198
HC		-0.00	0.002	-0.039	-0.572	0.568
LEV		-0.00	0.007	-0.050	-0.873	0.383
ROA		-0.00	0.029	-0.005	-0.076	0.939

Note: Dependent variable: ABSRESID

EQ = earnings quality; TBTD = temporary book tax differences; IOS = investment opportunity set; HC = human capital; LEV = leverage; ROA = return on assets

as control variables can explain the variation in earnings quality by 11.10%. The resting 88.90% is elucidated by else variables not admitted in the research model. The calculated F value of 9,396 is significant at the 5% level indicating that the research model is feasible to use.

Table 4 provides information that the temporary book-tax difference has a negative and significant effect on earnings quality, so the first hypothesis is accepted. The investment opportunity set variable shows a positive influence on earnings quality, so the second hypothesis is accepted.

Meanwhile, human capital shows no positive effect on quality, so the third hypothesis is rejected. The test results on the control variable show that leverage has no influence on quality of earnings. Meanwhile, profitability is proven to be able to improve the quality of company

Table 4. The Results of Regression Test

Model	Unstandardized Coefficients β Std. Error		Standardized Coefficients	t	Sig.	VIF
Constant	0.011	0.008	Ρ	1.368	0.172	
TBTD	-0.167	0.063	-0.139	-2.662	0.008	1.033
IOS	0.013	0.002	0.366	5.897	0.000	1.462
HC	-0.005	0.003	-0.114	-1.795	0.074	1.534
LEV	-0.015	0.010	-0.080	-1.488	0.138	1.083
ROA	0.005	0.045	0.007	0.109	0.913	1.663
DW						2.041
\mathbb{R}^2						0.124
Adjusted R ²						0.111
F_{count}						9.396
Sig. F						0.000

Note: EQ = earnings quality; TBTD = temporary book tax differences; IOS = investment opportunity set; HC = human capital; LEV = leverage; ROA = return on assets

earnings as measured by the earnings response coefficient.

Temporary Book-Tax Differences and Quality of Earnings

The test results show that the higher the temporary book differences, the lower the earnings quality. The findings of this study support agency theory which views that one agency conflict occurs because management uses freedom to choose accounting methods to maximize their interests, without thinking about responsibility to shareholders (Widiatmoko & Indarti, 2019). Temporary book tax differences information can provide to shareholders about management's authority in the accrual process, which has an impact on reducing the quality of earnings. The results of this study indicate that regulators and investors can use the temporary book difference tax as а signal management actions in managing earnings. The higher book tax indicate differences also that companies are managing earnings 2013). (Huang & Wang, This management action will be responded negatively by investors, so that the earnings response coefficient which is a proxy for earnings quality will decrease. This fact supports the results of previous studies which

show that temporary book-tax differences will reduce earnings quality (Narita & Tagwa, 2020; Putri & Sujana, 2018; Widiatmoko & Indarti, 2019). Abdualeva & Park (2019) who conducted research on KOSPI companies in Korea also proved that with high companies book differences have high discretionary accruals values and low persistence.

Investment Opportunity Set and Quality of Earnings

The positive impact of the investment opportunity set on earnings quality indicates that the higher the growth opportunity, the higher the company's quality of earnings. Based on the perspective of agency theory, investment opportunity sets can be a means of minimizing problems that arise in the agency relationship between management and principals through investment decisions by management. Companies with high investment opportunities will have high growth in the future, so that the future earnings will also increase. Expectations for a high rate of return will cause the market to respond positively to unexpected earnings (Handi et al., 2022; Yasa et al., 2019).

The findings of this research are in line with the previous research which prove that companies with

higher investment opportunity sets will also have higher earnings response coefficients, which means that companies have better earnings quality (Andriani et al., 2021; Handi et al., 2022). However, the results of this study contradict the results of the research by Widiatmoko & Indarti (2018), which reports that investment opportunities have a negative effect on earnings quality. Investors are more concerned about announced earnings than investment opportunities. Companies that are growing need funds finance more to their investments. affecting dividends distributed tend to be low.

Human Capital and Earnings Quality

the main resource companies, human capital should be a key factor in creating competitive advantage and competitiveness which will have an impact on improving performance (Mutuc, 2021). condition will cause a positive market reaction, so that the earnings response coefficient increases, which means the quality of ABA also increases. However, the findings of study show different facts, this human capital does not have an impact on improving earnings quality. This condition indicates that the human resources owned by the

company have not been managed optimally. This is evidenced by 232 or 67% of the data from the research sample having a human capital added value (VAHU) below the average of 2.2539, while only 106 (33%) of the data has a value above the average.

This finding of this study contradicts the results of previous research which reported that wellmanaged intellectual capital, especially human capital, will encourage companies to competitive advantage and improve sustainability performance (Herlina et al., 2023; Khajavi et al., 2016; Mutuc, 2021; Sowaity, 2022). The impact of intellectual capital and human capital on profit quality is caused by an increase in the company's financial performance (Mutuc, 2021).

The findings of this study also conflict with agency theory. Good resource ownership and management should encourage management to disclose it in annual reports and the market will respond positively, so that the earnings response coefficient, which is a proxy for earnings quality, will also increase. The findings of this study are in line with the results of research by Handi et al. (2022), who reported that human capital has no effect on earnings quality.

CONCLUSION, IMPLICATION AND LIMITATION

This research investigated the impact of temporary book differences, investment opportunity sets as well as human capital on earnings quality as well as leverage and return on assets as control variables. In accordance with the temporary hypothesis, book tax differences have a negative influence on earnings quality. The higher the book value of tax differences, the lower the earnings quality. findings of this study support the agency theory which states that the functions separation of between management and principal will lead to a conflict of interest between the two parties. The freedom of management accounting recognition using methods according to their interests without considering the interests of shareholders, resulting in agency costs. Temporary differences can be a source of information for principals to assess management in the accrual the because choice of process accounting recognition method for measuring taxable income is limited, which results in a decrease in net income.

This research proves that the higher the investment opportunity owned by the company, the higher the quality of its earnings. The investment

opportunity set describes the company's future growth potential which will impact the quality of reported earnings. When the firm's investment opportunity set is high, the value of the firm will increase because more and more investors are interested in investing in the hope of obtaining a greater return in the future. This condition may lead to the possibility of earnings management practices due to maintaining the stability of the company's growth.

Despite the contributions made, this research has limitations. This research uses human capital which is a part of intellectual capital as a predictor of earnings quality. The results of the study were unable to prove the positive effect of human capital on earnings quality. Therefore, future researchers should explore the intellectual capital and its elements as predictors of earnings quality, so that the results will be more Future researchers comprehensive. also need to consider other measures of earnings quality, such as the level of accruals (earnings management) and accounting conservatism. This research is still limited the manufacturing industry the Indonesia Stock Exchange. Future researchers may consider testing companies listed on capital markets in developing countries so that the results better describe the quality of earnings for these companies.

REFERENCES

- Abdullaev, B., & Park, J. H. (2019). The Effect of Book-Tax D ifference on Earnings Quality: Empirical Evidence from KOSPI companies in Korea. *GLOBAL BUSINESS FINANCE REVIEW*, 24(3), 14–28. https://doi.org/10.17549/gbfr.2019.24.3.14
- ACFE. (2022). Occupational Fraud 2022: A Report to the nations. Association of Certified Fraud Examiners, 1–96. https://legacy.acfe.com/report-to-the-nations/2022/
- Ahangar, R. G. (2011).relationship between intellectual capital and financial performance: empirical An investigation in an Iranian company. African Journal of Business Management, 5(1), 88-95. https://doi.org/10.5897/AJBM1 0.712
- Al-Gamrh, B., Ku Ismail, K. N. I., Ahsan, T., & Alquhaif, A. (2020). Investment opportunities, corporate governance quality, and firm performance in the UAE. *Journal of Accounting in Emerging Economies*, 10(2), 261–276. https://doi.org/10.1108/JAEE-12-2018-0134
- Andriani, B., Nurnajamuddin, M., & Rosvadah, K. (2021).Does Profitability. Firm Size. and Opportunity Investment Set Affect Earnings Quality? Jurnal Akuntansi, 25(1),54–69. https://doi.org/10.24912/ja.v25i 1.724
- Ashma', F. U., & Rahmawati, E. (2019). Pengaruh Persistensi

- Laba. Book Tax Differences. Investment Opportunity Set dan Modal Struktur Terhadap Kualitas dengan Laba Akuntansi Konservatisme Sebagai Variabel Moderasi (Studi Empiris pada Perusahaan Jasa yang Terdaftar di BEI Periode 2015-2017). Reviu Akuntansi Dan Bisnis Indonesia, 3(2), 206-219. https://doi.org/10.18196/rab.03 0246
- Bayraktaroglu, A. E., Calisir, F., & Baskak, M. (2019). Intellectual capital and firm performance: an extended VAIC model. *Journal of Intellectual Capital*, *20*(3), 406–425.

 https://doi.org/10.1108/JIC-12-2017-0184
- Bilal, B., Chen, S., & Komal, B. (2018). Audit committee financial expertise and earnings quality: A meta-analysis. *Journal of Business Research*, 84(November 2017), 253–270. https://doi.org/10.1016/j.jbusre s.2017.11.048
- Blaylock, B., Shevlin, T., & Wilson, R. J. (2012). Tax avoidance, large positive temporary book-tax differences, and earnings persistence. In *Accounting Review* (Vol. 87, Issue 1, pp. 91–120). https://doi.org/10.2308/accr-10158
- Chi, S. S., Pincus, M., & Teoh, S. H. (2014). Mispricing of book-tax differences and the trading behavior of short sellers and insiders. *Accounting Review*, 89(2), 511–543. https://doi.org/10.2308/accr-50644
- Dechow, P. M. (1994). Accounting earnings and cash flows as measures of firm performance: The role of accounting accruals. *Journal of Accounting and Economics*, 18(1), 3–42.

https://doi.org/10.1016/0165-4101(94)90016-7

- Dechow, P. M., & Dichev, I. D. (2002). Quality Earnings: The Accruals Accrual Estimation Errors. *The* Accounting Review, 77(2002), 35– 59.
- Elsiddig Ahmed, I. (2020).The Characteristics **Oualitative** Accounting Information, Earnings Quality, and Islamic Banking Performance: Evidence from the Gulf Banking Sector. International Journal of Financial Studies. 8(2), https://doi.org/10.3390/ijfs8020 030
- Fadilah, N., & Wijayanti, P. (2017).

 Book Tax Differences dan
 Persistensi Laba pada
 Perusahaan Manufaktur. *Jurnal Akuntansi Multiparadigma JAMAL*, 8.

 https://doi.org/10.18202/jamal.2017.08.7053
- Feltham, G. A., & Ohlson, J. A. (1995). Valuation and Clean Surplus Accounting for Operating and Financial Activities. Contemporary Accounting Research, 11(2), 689–731. https://doi.org/10.1111/j.1911-3846.1995.tb00462.x
- Gao, H., Harford, J., & Li, K. (2013).

 Determinants of corporate cash policy: Insights from private firms. *Journal of Financial Economics*, 109(3), 623–639.

 https://doi.org/10.1016/j.jfineco.2013.04.008
- Givoly, D., Hayn, C. K., & Katz, S. P. (2010). Does Public Ownership of Equity Improve Earnings Quality? *The Accounting Review*, 85(1), 195–225. https://doi.org/10.2308/accr.20 10.85.1.195

- Hamdan, A. (2020). The role of the audit committee in improving earnings quality: The case of industrial companies in GCC. *Journal of International Studies*, 13(2), 127–138. https://doi.org/10.14254/2071-8330.2020/13-2/9
- Handi, H., Rahmatika, D. N., & Fanani, B. (2022). Understanding Earnings Response Coefficient from Growth Opportunities, Earnings Persistance, Intellectual Capital: **Empirical** Study from IDX-30 Indexed Companies. Proceedings of the 2nd International Conference on Social Science, Humanities, **Education** Societu and (ICONS Development 2021). 629(Icons 2021), 127-134. https://doi.org/10.2991/assehr. k.220101.020
- Herlina, H., Santosa, E. W. A., Alfitri, D. N., & Nugroho, W. S. (2023). An integrated model to explain earnings quality: financial performance as a intervening. *EconBank: Jurnal of Economics and Banking*, 5(April), 1–12.
- Hope, O.-K., Thomas, W. B., & Vyas, D. (2013). Financial Reporting Quality of U.S. Private and Public Firms. *The Accounting Review*, 88(5), 1715–1742. https://doi.org/10.2308/accr-50494
- Huang, D., & Wang, C. (2013). Book-tax differences and earnings quality for the banking industry: evidence from Taiwan. *Pacific Accounting Review*, *25*(2), 145–164. https://doi.org/10.1108/PAR-12-2011-0052
- Indarti, M. G. K., Widiatmoko, J., Badjuri, A., & Ambarwati, T. (2021). Determinan Konservatisme Akuntansi: Studi Empiris pada Perusahaan

- Manufaktur di Bursa Efek Indonesia. *Jurnal Akuntansi Indonesia*, *10*(2), 161–174. https://doi.org/10.23887/jimat.v13i03.44363
- Ismail, W. A. W., Harymawan, I., Agustia, D., & Kamarudin, K. A. Financial (2021).reporting quality following the corporate governance reforms: conditional conservatism perspective. Journal of Governance and Regulation, 10(2, special issue). 216-225. https://doi.org/10.22495/igrv10 i2siart3
- Ismail, W. A. W., Kamarudin, K. A., Van Zijl, T., & Dunstan, K. (2013). Earnings quality and the adoption of IFRS-based accounting standards: Evidence from an emerging market. Asian Review of Accounting, 21(1), 53–73.

 https://doi.org/10.1108/13217341311316940
- Jackson, M. (2015). Book-tax differences and future earnings changes. *Journal of the American Taxation Association*, *37*(2), 49–73.

 https://doi.org/10.2308/atax-51164
- Kalalo, A. D., & Sofian, S. (2022). Intellectual Capital Affects Earnings Quality with Earnings Management as Intervening Variables. SAR (Soedirman Accounting Review): Journal of Accounting and Business, 07(01), 35–50. https://doi.org/10.32424/1.sar.
- Khajavi, S., Arani, M. H. G., & Nafchi, H. F. (2016). Intellectual capital and earnings quality: a comprehensive investigation. International Journal of Learning and Intellectual Capital, 13(4),

2022.7.1.6749

- 316–337. https://doi.org/10.1504/IJLIC.2 016.079353
- Krismiaji, K., & Sururi, S. (2021). Conservatism, Earnings Quality, and Stock Prices Indonesian Evidence. *Journal of Accounting and Investment*, 22(1), 37–50. https://doi.org/10.18196/jai.v22 i1.9419
- Lin, C. J., Wang, T., & Pan, C. J. (2016). Financial reporting quality and investment decisions for family firms. Asia Pacific Journal of Management, 33(2), 499–532. https://doi.org/10.1007/s10490-015-9438-8
- Mangena, M., Pike, R., & Li, J. (2010). Intellectual Capital Disclosure Practices and Effects on the Cost of Equity Capital: UK Evidence. In *The Institute of Chartered Accountants of Scotland* (First, Issue October).
- Melgarejo, M. (2019). The impact of corporate governance on earnings quality: evidence from Peru. *Journal of Accounting in Emerging Economies*, 9(4), 527–541. https://doi.org/10.1108/JAEE-12-2018-0138
- Mention, A. L., & Bontis, N. (2013). Intellectual capital and performance within the banking sector of Luxembourg and Belgium. *Journal of Intellectual Capital*, 14(2), 286–309. https://doi.org/10.1108/14691931311323896
- Murwaningsari, E., & Rachmawati, S. (2017). The Influence of Capital Intensity and Investment Opportunity Set toward Conservatism with Managerial Ownership as Moderating Variable. Journal of Advanced Management Science, 5(6), 445-

451. https://doi.org/10.18178/joams.
5.6.445-451

Mutuc, E. B. (2021). An integrated model to explain how intellectual capital affects earnings quality: Some evidence from asian emerging economies. Asia-Pacific Social Science Review, 21(2), 202-221. https://www.dlsu.edu.ph/wpcontent/uploads/pdf/research/jo urnals/apssr/2021-June-vol21-2/15-An-Integrated-Model-to-Explain-How-Intellectual-Capital-Affects-Earnings-Quality-Some-Evidence-from-Asian-Emerging-Economies

- Myers, S. C. (1977). Determinants of corporate borrowing. *Journal of Financial Economics*, 5(2), 147–175.

 https://doi.org/10.1016/0304-405X(77)90015-0
- Namazi, M., & Rezaei, G. (2016). The Effects of Earnings Quality Criteria on the Agency Costs: (Evidence from Tehran Stock Exchange Market). Procedia Social and Behavioral Sciences, 230(May), 67–75. https://doi.org/10.1016/j.sbspro.2016.09.009
- Narita, N., & Taqwa, S. (2020). Pengaruh Investment Opportunity Terhadap Set Kualitas Laba Dengan Konservatisme Sebagai Variabel Jurnal Eksplorasi Moderating. 2250-2262. Akuntansi, 2(1),https://doi.org/10.24036/jea.v2i 1.210
- Nissim, D. (2021). Earnings Quality. In Columbia Business School Research Paper: Vol. March 1. https://doi.org/10.2139/ssrn.37 94378
- Noga, T. J., & Schnader, A. L. (2013).

Book-Tax Differences as an Indicator of Financial Distress. *Accounting Horizons*, 27(3), 469–489.

https://doi.org/10.2308/acch-50481

- Putri, N. N. T. A., & Sujana, I. K. (2018).Pengaruh Temporary Book-Tax Differences dan Leverage pada Kualitas Laba Manufaktur Perusahaan yang Terdaftar di BEI. E-Jurnal Akuntansi, 23(2), 1548-1573. https://doi.org/10.24843/EJA.2 018.v23.i02.p28
- Rusdi, D., Kartika, I., & Indriastuti, (2021).Toward Performance in Indonesia: The Good Role of Corporate Investment Governance and Opportunity Set. Jurnal Economia, 17(1),81-90. https://doi.org/10.21831/econo mia.v17i1.35562
- Salehi, M., & Sehat, M. (2019). Debt maturity structure, institutional ownership and accounting conservatism. *Asian Journal of Accounting Research*, 4(1), 35–51. https://doi.org/10.1108/AJAR-05-2018-0001
- Sarea, A. M., & Alansari, S. H. (2016). The relationship between intellectual capital and earnings quality: evidence froSarea, A. M., & Alansari, S. H. (2016). The relationship between intellectual capital and earnings quality: evidence from listed firms in Bahrain Bourse. International Journal. International Journal of Learning and Intellectual Capital, 302. 13(4), https://doi.org/10.1504/IJLIC.2 016.079350
- Shen, Y., Gao, D., Bu, D., Yan, L., & Chen, P. (2019). CEO hometown ties and tax avoidance-evidence from China's listed firms.

- Accounting and Finance, 58(5), 1549–1580. https://doi.org/10.1111/acfi.12442
- Smriti, N., & Das, N. (2018). The impact of intellectual capital on firm performance: a study of Indian firms listed in COSPI. *Journal of Intellectual Capital*, 19(5), 935–964. https://doi.org/10.1108/JIC-11-2017-0156
- Sonnier, B. M., Hennig, C. J., Everett, J. O., & Raabe, W. A. (2012). Reporting of book-tax differences for financial and tax purposes: A case study. *Journal of Accounting Education*, 30(1), 58–79. https://doi.org/10.1016/j.jacced/u.2012.06.009
- Sowaity, S. M. A. (2022). Does Intellectual Capital Efficiency Earnings **Ouality?** Affect Evidence for Jordanian Listed Companies. Open Journal of Accounting, 11(02), 80–109. https://doi.org/10.4236/ojacct.2 022.112006
- Waluyo. (2016). The Relationship Between Book-Tax Differences and Earnings Growth Within Indonesian Manufacturing Firms. Research Journal of Finance and Accounting, 7(18), 127–133. https://iiste.org/Journals/index.php/RJFA/article/view/33300
- Widiatmoko, J., & Indarti, M. G. K. (2019). Book Tax Differences, Operating Cash Flow, Leverage Earning Persistence and Manufacturing Indonesia Companies. Jurnal Dinamika Akuntansi. 11(2),151-159. https://doi.org/10.15294/jda.v1 1i2.20481
- Widiatmoko, J., Indarti, M. G. K., & Agustin, C. A. (2020). Corporate Governance, Growth

- Opportunities dan Konservatisme Akuntansi: Bukti Empirik pada Perusahaan Manufaktur di Bursa Efek Indonesia. *Jurnal Akuntansi Bisnis*, 18(2), 236–249. http://journal.unika.ac.id/index.php/jab/article/view/3522/pdf
- Widiatmoko, J., & Indarti, M. K. (2018). The Determinans Of Earnings Response Coefficient: An Empirical Study For The Real Estate And Property Companies Listed On The Indonesia Stock Exchange. Accounting Analysis Journal, 7(2), 135–143. https://doi.org/10.15294/aaj.v7i2.27321
- Yasa, G. W., Astika, I. B. P., & Widiariani, N. M. A. (2019). The Influence Of Accounting Conservatism, IOS, And Good Corporate Governance On The Earnings Quality. *Jurnal Ilmiah Akuntansi Dan Bisnis*, 14(1), 86–94.
 - $\frac{https://doi.org/10.24843/JIAB.2}{019.v14.i01.p08}$
- Yunita, P. A., & Suprasto, H. B. (2018). Pengaruh Konservatisme Dan Investment Opportunity Set (IOS) Terhadap Kualitas Laba dengan Kepemilikan Manajerial Sebagai Pemoderasi. *E-Jurnal Akuntansi*, 24(3), 1908–1937. https://doi.org/10.24843/eja.20 18.v24.i03.p10