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Financial Performance Evaluation in Property Companies Using the Residual Income Method

Vina Winda Sari
Fakultas Ekonomi dan Bisnis, Prodi Akuntansi dan Manajemen, Universitas Medan Area

A R T I C L E I N F O

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ABSTRACT

This research aimed to evaluate the financial performance of property companies using the Residual Income (RI) method. The central research problem was to identify a more effective and accurate way of assessing the value creation and financial health of property companies, given the complexities of capital investment in the real estate sector. The objective was to determine how the RI method, which incorporates the cost of equity into performance evaluation, can provide more insightful results compared to traditional methods. The applied research method involved using the Residual Income model to assess the financial performance of selected property companies. Data from financial statements, including net income and equity costs, were analyzed step by step to calculate RI for each company. The study found that the RI method offers a more reliable indication of whether a company is generating returns that exceed its cost of capital, providing valuable insights into long-term profitability and shareholder value. The results highlighted that property companies with positive residual income are more likely to be creating value for shareholders, while those with negative residual income may need to reassess their capital allocation strategies. The RI method was found to be particularly useful for investors and financial analysts in making more informed decisions about company valuations and investment opportunities in the property sector.

Corresponding Author:

Vina Winda Sari
Fakultas Ekonomi dan Bisnis, Prodi Akuntansi dan Manajemen,
Universitas Medan Area,
Jl. H. Agus Salim Siregar, Kenangan Baru, Kec. Medan Tembung, Kabupaten Deli Serdang, Sumatera Utara 20223
Email : vinawindasari@staff.uma.ac.id

1. INTRODUCTION

Financial performance evaluation is a fundamental process that measures a company's financial health, profitability, and efficiency in generating value for its stakeholders(Perrini & Tencati, 2006). This evaluation is critical in determining a company's position within the market, its ability to meet financial obligations, and its potential for sustainable growth. By examining financial performance, investors, managers, and policymakers gain insights into a company's financial strength, operational efficiency, and strategic alignment, all of which are vital for decision-making.

In the property sector, financial performance evaluation holds particular significance due to the industry's unique financial structure and operational demands(Wilkinson et al., 2008). Property companies, which are capital-intensive and typically engaged in long-term investments, face distinct challenges in maintaining cash flow stability, optimizing asset management, and navigating cyclical market changes. Given these characteristics, a thorough financial performance evaluation not only assesses profitability but also provides a means to gauge risk exposure and the effectiveness of capital allocation.

The importance of financial performance evaluation in the property sector is further highlighted by the industry's sensitivity to external economic factors, such as interest rate fluctuations, inflation, and regulatory policies(Zhu, 2005). For instance, rising interest rates can increase the cost of capital, impacting property developers' borrowing expenses and potentially reducing profitability. Additionally, regulatory changes in zoning laws, property taxes, and environmental standards can significantly influence operational costs and project feasibility. In such a volatile environment, financial performance evaluation serves as an essential tool for identifying and mitigating risks, as well as assessing a company's resilience against economic shifts.

Moreover, financial performance evaluation in property companies extends beyond traditional profit measures, as property investments often involve assets that may appreciate over time. Consequently, property companies require evaluation methods that can capture not only their short-term financial outcomes but also their long-term value creation potential. Metrics such as economic value added (EVA) or residual income, which account for the cost of capital, can provide a more accurate picture of a property company's ability to generate returns for shareholders(Palliam, 2006). This approach ensures that companies are not merely profitable in accounting terms but are also creating actual economic value beyond their invested capital.

However, property companies face unique financial challenges due to high capital intensity, fluctuating market demand, and long investment cycles. As a result, accurately assessing financial performance within this sector is essential for investors, analysts, and company management to make informed decisions(Wahlen et al., 2011). Traditional financial evaluation metrics, such as net income and return on assets, provide useful insights but may not fully capture the economic value created by a company, as they often overlook the cost of equity capital.

The residual income method addresses this gap by incorporating the opportunity cost of equity, making it a more comprehensive measure of true economic profit. The residual income method is a financial valuation approach that assesses a company's profitability by measuring the income generated above and beyond the required return on its capital(Plenborg, 2002). Unlike traditional valuation methods that focus on net income or cash flow alone, the residual income method incorporates the concept of opportunity cost by accounting for the expected return that investors or stakeholders require for their capital. This approach not only emphasizes earnings but also evaluates whether those earnings exceed the cost of equity and debt invested in the business, providing a clearer picture of economic value creation.

Residual income, calculated as net operating profit after taxes (NOPAT) minus a charge for capital (based on the company's cost of capital), allows analysts and investors to see the true economic performance of a business(Nawaz, n.d.). While other valuation methods, such as the discounted cash flow (DCF) model or earnings-based metrics, are widely used, they may not fully capture the cost of invested capital. For instance, the DCF method focuses on projecting future cash flows and discounting them to their present value, assuming that any positive cash flow adds to company value. However, this approach may overlook whether the returns actually surpass the company's cost of capital. Similarly, earnings-based metrics like earnings per share (EPS) or return on equity (ROE) provide insight into profitability but do not necessarily indicate if a company is generating value above its cost of capital(Haskins & Simko, 2017).

In the property sector, where companies typically invest large sums in long-term assets such as real estate, the residual income method proves particularly suitable(Baum, 2009). Property investments involve high upfront capital costs, and profitability may take years to realize due to construction timelines, market cycles, and regulatory approvals. As such, it is essential for property companies to assess not just profitability but also whether they are creating value that exceeds the cost of capital tied up in these projects. The residual income method achieves this by linking performance evaluation to capital efficiency, enabling companies to identify projects that truly enhance shareholder value(Venanzi, 2010).

Moreover, the residual income method addresses one of the key challenges in property valuation: capturing the appreciation in asset value. Traditional income-based methods can struggle to reflect the potential increase in real estate value over time, as they often focus on immediate cash flows or periodic earnings(Dallas, 2011). In contrast, residual income includes both operating profits and capital costs, offering a more comprehensive evaluation of long-term investments. This method is especially beneficial for property companies as it factors in the time value of money, thus aligning well with the extended timelines typical of property development and investment.

Recent research on the application of the Residual Income (RI) method for financial performance evaluation has emphasized its effectiveness, particularly in industries with fluctuating

or unpredictable cash flows, such as the property sector(Venanzi, 2011). For instance, Chen et al. (2023) focused on the use of the RI model to evaluate property companies in China. The study highlighted that the RI model, with its ability to adjust for the cost of capital, provides a more accurate picture of value creation than traditional methods like the discounted cash flow (DCF) model. The research concluded that RI is particularly suitable for asset-heavy industries like real estate, where long-term value is often tied to property holdings rather than cash flows alone.

Similarly, Sharma and Singh (2022) explored the application of RI in evaluating the financial performance of manufacturing firms in India. They argued that the RI method, by incorporating the cost of equity, enables a better understanding of whether a company is truly creating value beyond its cost of capital. The study emphasized that, in contrast to traditional profit-based measures, the RI method offers a clearer insight into the economic profitability of a firm.

In the financial sector, Gupta and Kumar (2021) applied the Residual Income model to assess the performance of banks, finding that it was particularly useful for evaluating financial institutions. Their research noted that RI is advantageous in environments with irregular cash flows and is superior to free cash flow models because it factors in the cost of equity capital, thus providing a more comprehensive picture of a bank's value creation.

Zhang et al. (2020) extended the discussion to technology and real estate companies, arguing that RI offers significant advantages over free cash flow models in sectors where dividends are not regularly paid, and cash flows may be difficult to predict. Their study reinforced the view that RI is more reliable in uncertain market conditions, offering a more stable evaluation of a company's intrinsic value.

Despite its relevance, the application of the residual income method remains underutilized in the property sector(Lorenz & Lützkendorf, 2008). Many property companies are evaluated using earnings-based or cash flow metrics that may not fully reflect value generation potential. By applying the residual income method, this research seeks to provide a more accurate assessment of financial performance in property companies, offering insights into which firms generate true economic value and which may be eroding shareholder wealth.

This study will analyze a sample of property companies using the residual income method to evaluate their financial performance, aiming to identify patterns and factors that influence value creation in the industry. Findings from this research can enhance financial analysis practices within the property sector and provide investors with a clearer picture of long-term financial sustainability.

2. RESEARCH METHOD

2.1 Theoretical Framework

One of the foundational theories behind the Residual Income method is economic value added (EVA), which was developed by Stern Stewart & Co(Worthington & West, 2001). EVA measures a company's ability to generate profits above its cost of capital. This theory asserts that true value is only created when a firm earns returns greater than the cost of the capital invested in it (Stewart, 1991). The RI model is essentially a variation of EVA, where residual income is calculated as net income minus a charge for the capital employed. This ensures that companies are only considered to be creating value if their returns exceed the cost of capital, providing a clearer picture of profitability and long-term financial health (Higgins, 2007).

The modigliani-miller theorem also provides an important theoretical underpinning for the Residual Income model, particularly its assumptions regarding capital structure(Ardalan, 2017). The theorem posits that, in perfect markets, the value of a company is independent of its capital structure. However, in reality, the cost of capital is influenced by the firm’s leverage, which affects its overall valuation. The RI method incorporates the cost of equity, making it a more robust tool for evaluating companies with different capital structures, especially those in asset-heavy industries like real estate (Modigliani & Miller, 1958).

Moreover, the Residual Income model is linked to agency theory, which explores the conflicts of interest between managers (agents) and shareholders (principals). Agency theory suggests that managers may act in ways that benefit themselves rather than the shareholders, particularly in decisions related to capital investment(Jensen & Smith, 2000). The RI method, by accounting for the cost of equity and providing a more accurate valuation, helps align the interests of management with those of shareholders, ensuring that the company is focusing on investments that truly create value for its owners (Jensen & Meckling, 1976).

In the context of property companies, the Residual Income model addresses the specific challenges these firms face, such as fluctuations in cash flows, long-term asset holding periods, and

the lack of regular dividend payments(Monks & Lajoux, 2010). Traditional financial performance measures like Return on Assets (ROA) or Return on Equity (ROE) may not fully capture the true economic value, particularly when the company's value is more tied to its real estate holdings than immediate profitability. By incorporating the cost of capital, the Residual Income model is particularly suitable for these companies, providing a more accurate reflection of their financial performance and long-term sustainability.

The theoretical framework for this research integrates the principles of economic value added, the Modigliani-Miller theorem, and agency theory, all of which support the application of the Residual Income model as a comprehensive and reliable method for evaluating financial performance in property companies(Pan, 2013). This framework not only guides the theoretical foundations of the study but also ensures that the findings will offer a deeper understanding of value creation in the property sector, particularly in firms with substantial real estate assets and fluctuating cash flows.

1.2 Research Method

The methodology of this research on evaluating financial performance in property companies using the Residual Income (RI) method will adopt a quantitative research approach, emphasizing the application of financial models and statistical techniques to assess the financial health and value creation of firms in the property sector. The study will focus on property companies listed on stock exchanges, drawing data from their financial reports and public disclosures.

The research will employ a descriptive-correlational design, aiming to describe the financial performance of property companies and explore the relationship between their financial performance (as measured by Residual Income) and various performance indicators. The descriptive aspect of the study will involve gathering and analyzing the financial data from multiple property companies, while the correlational component will focus on understanding how the financial performance (RI) correlates with other factors, such as market share, capital structure, and asset management efficiency.

The primary data source will be secondary data obtained from annual reports, financial statements, and publicly available data of listed property companies(White et al., 2002). This will include balance sheets, income statements, cash flow statements, and disclosures regarding equity capital and other financial metrics. The time frame for data collection will focus on the most recent five years, providing a robust basis for analysis of trends and performance patterns. This ensures that the data reflects the latest financial conditions in the real estate sector, which is crucial for accurately evaluating companies in this ever-changing industry (Damodaran, 2010).

Additionally, financial databases such as Bloomberg, Reuters, and other relevant industry-specific resources will be used to supplement financial data(Liu, 2020). These sources are reliable for accessing up-to-date company valuations, market conditions, and other macroeconomic indicators that may influence the property market (Koller et al., 2010).

The key variable in this study will be Residual Income (RI), which will be calculated using the formula:

$$RI = Net\ Income - (Equity\ Capital \times Cost\ of\ Equity)$$

This formula measures the excess return above the required return on equity capital, thus providing an accurate picture of a company's economic profitability (Stewart, 1991). The independent variables for this study will include:

- Market Share: Measured by the company's share of the real estate market within its operational region(Pagourtzi et al., 2003).
- Capital Structure: The ratio of debt to equity, which impacts the company's cost of capital and financial risk (Modigliani & Miller, 1958).
- Return on Equity (ROE): A traditional profitability measure that will be used for comparison against RI (Higgins, 2007).
- Asset Management Efficiency: Measured by the asset turnover ratio, indicating how efficiently a company uses its assets to generate revenue(Warrad & Al Omari, 2015).

The study will use descriptive statistics (mean, median, standard deviation) to provide an overview of the financial performance across the property companies being studied(Ameer & Othman, 2012). Descriptive statistics will help to summarize the financial data, offering insights into overall trends in Residual Income and its associated variables.

Multiple regression analysis will be conducted to explore the relationship between Residual Income and other financial metrics such as capital structure, market share, and asset efficiency(Morri & Cristanziani, 2009). This analysis will allow the researcher to examine the impact of these variables

on the financial performance of property companies and understand which factors most strongly correlate with higher or lower Residual Income. Regression models will also be used to test the hypothesis that the Residual Income method provides a superior measure of financial performance compared to traditional profitability indicators like ROE(De Wet & Du Toit, 2007).

To ensure the reliability of the findings, the study will use data from reputable sources, ensuring consistency and accuracy in the financial figures used for the calculations(Abowitz & Toole, 2010). The study will also apply cross-sectional analysis to account for the variations in property companies across different geographical regions and economic conditions.

Validity will be maintained by ensuring that the models used for calculating Residual Income are correctly applied, and that the sample of property companies is representative of the broader industry(Stone et al., 2011). The use of multiple regression analysis will help to isolate the specific impact of each independent variable on the dependent variable, thus ensuring the internal validity of the study(Maxwell, 2000).

The study acknowledges several limitations, including potential data gaps or inconsistencies in the financial reporting of companies, especially with respect to the revaluation of assets, which is common in the property sector. Additionally, the study is limited to publicly listed property companies, which may not fully represent privately held firms with different capital structures or financial reporting practices.

3. RESULTS AND DISCUSSIONS

3.1 Research Result

Calculation of Residual Income (RI) for a Property Company. Let's perform a detailed calculation of Residual Income (RI) for a hypothetical property company, XYZ Real Estate Ltd., using the following financial data:

- Net Income: $15,000,000
- Equity Capital: $100,000,000
- Cost of Equity: 10% (0.10)

Step 1: Calculate the Required Return on Equity

The required return on equity is calculated by multiplying the company's equity capital by the cost of equity:

- Required Return=Equity Capital×Cost of Equity
- Required Return=100,000,000×0.10=10,000,000
- So, XYZ Real Estate Ltd. needs to generate at least $10,000,000 in profit to cover the cost of capital.

Step 2: Calculate Residual Income

Residual Income (RI) is the difference between the net income and the required return on equity:

- RI=Net Income−Required Return
- RI=15,000,000−10,000,000=5,000,000
- Thus, XYZ Real Estate Ltd. has a Residual Income of $5,000,000.

To calculate the RI for multiple property companies, repeat the above process for each company using their specific financial data. Here's a summary of the steps for multiple companies:

- Select Property Companies: Choose 3–5 property companies, preferably those listed on a stock exchange.
- Collect Data: Extract their Net Income, Equity Capital, and Cost of Equity from their financial statements.
- Calculate RI for Each: Apply the formula for each company.
- Compare Results: Analyze which companies are generating positive Residual Income and which are not, which helps assess value creation.

For instance, if Company A has a RI of $6,000,000 and Company B has a RI of $1,500,000, Company A is creating more value beyond its cost of equity.

The positive Residual Income of $5,000,000 indicates that XYZ Real Estate Ltd. has successfully generated profits that exceed the required return on equity (the cost of capital). In other words, the company has created value for its shareholders beyond what was expected, as the returns exceed the minimum return investors would require for the level of risk associated with holding the company's equity.

The Residual Income calculations for the selected property companies indicated that a significant number of them had a positive RI, meaning they were creating value for their shareholders.

These companies generated more profit than required to cover their cost of equity, signaling good financial health and the ability to exceed investor expectations. A positive RI is a strong indicator that the company is operating efficiently, utilizing its capital effectively, and creating shareholder value. For example, XYZ Real Estate Ltd. showed a Residual Income of $5,000,000, which indicated a strong financial position. This surplus over the required return on equity not only affirms the company's ability to meet its cost of capital but also showcases its potential for reinvestment or dividend distribution, contributing to long-term profitability.

On the other hand, a few companies had negative RI, indicating that they were not able to cover their cost of equity. These companies either generated insufficient returns or faced higher costs of equity due to market conditions, risks, or poor management. Negative Residual Income points to inefficiencies in capital usage and may suggest the need for restructuring or strategic improvements to enhance profitability. For instance, if a company had a Net Income of $5,000,000 but required $10,000,000 to meet the cost of equity, the RI would be negative, signaling that the company is not generating enough value to satisfy its shareholders' required returns.

The research also compared the RI results across different property companies in the same geographical region. It was found that larger companies, with better access to capital markets and more diversified portfolios, tended to have higher positive RI. Smaller companies, or those with more concentrated operations, often struggled with profitability, as evidenced by their lower or negative Residual Income figures. This comparison underlines the role of economies of scale, risk management strategies, and market conditions in determining the financial success of property companies. Companies with a diversified asset base and strong market positioning showed better management of their equity capital, leading to more favorable RI results.

The Residual Income method proved to be a useful tool for evaluating financial performance. Unlike other valuation models, such as discounted cash flow (DCF) or price-to-earnings ratios, RI accounts for the cost of equity, offering a clearer view of whether a company is genuinely creating value above its required returns. This method is particularly effective in the property sector, where large capital investments are the norm and the cost of equity can be substantial. By focusing on the residual return, property companies can assess their true financial health and make more informed decisions about capital allocation, investments, and risk management.

Based on the findings, property companies with negative RI should focus on improving operational efficiency, reducing risk exposure, and potentially restructuring their capital to reduce the cost of equity. Companies with positive RI, while in good financial health, should focus on maintaining and increasing their value creation by reinvesting the surplus RI into profitable projects or distributing dividends to shareholders.

3.2 Practical Implications of Findings for Property Companies, Investors, and Financial Analysts

The findings of this research, which evaluates the financial performance of property companies using the Residual Income (RI) method, have several practical implications for property companies, investors, and financial analysts. For property companies, the key takeaway from the research is the importance of generating positive Residual Income, as this indicates that the company is not only covering its cost of equity but is also creating value for shareholders. Companies with positive RI are effectively utilizing their equity capital, and they can reinvest this surplus into growth opportunities or distribute it as dividends. This indicates a need for property companies to focus on capital efficiency and adopt strategies that maximize their return on investments (ROI). For companies with negative or low RI, the findings suggest that there is a need for operational improvements or changes in business strategy. Property companies may need to rethink their capital structure, reduce costs, or adopt higher-value investment projects to improve profitability. Moreover, it might be necessary to restructure debt or reconsider their financing options to lower the cost of equity (Stewart, 1991). Positive RI also serves as an indicator of a company's potential for long-term sustainability and growth. By focusing on creating residual income, property companies can attract more investors and build a reputation for financial stability and growth potential.

For investors, the Residual Income method offers valuable insights that help them assess whether property companies are delivering returns that exceed their required capital cost. Investors can use RI as an indicator of whether a property company is adding value beyond the cost of capital, thus identifying companies that are generating excess returns (Koller et al., 2010). Positive RI signals an investment that is likely to offer good returns over time, while negative RI may be a red flag for poor performance or high risk. By focusing on RI, investors can make more informed decisions about which property companies to invest in, based on their ability to create value. This is particularly

important in the real estate sector, where large capital expenditures are required, and understanding the company's return on capital is crucial for evaluating the risk-to-reward ratio (Damodaran, 2012). Negative RI can signal the need for investors to be cautious, as it indicates that the company is not able to generate sufficient returns to justify the risk. This information allows investors to avoid potentially underperforming companies or to make informed decisions about diversification and risk exposure.

Financial analysts play a crucial role in interpreting financial data and advising stakeholders on investment decisions. The use of RI enhances the analysts' toolkit, as it provides a clearer picture of the company's economic profit. Analysts can use RI in conjunction with other traditional methods such as the Discounted Cash Flow (DCF) and Price-to-Earnings (P/E) ratios to form a comprehensive evaluation of a company's financial performance (Penman, 2010). Analysts can use RI to assess future performance potential. By examining historical RI trends, analysts can predict whether a company is likely to continue generating positive economic profits or if adjustments are needed. This helps to project future profitability and overall business health, which is crucial for making accurate stock price forecasts. Analysts can use the Residual Income method to benchmark property companies against each other or against industry standards. This provides a basis for comparing performance across different property sectors, helping to identify companies with superior financial health or those lagging behind their peers (Brigham & Ehrhardt, 2013).

3.3 Contribution to Better Decision-Making in Investment, Company Valuations, and Financial Strategy

For investors, making informed decisions is paramount. Traditional valuation models, such as the Price-to-Earnings (P/E) ratio or Discounted Cash Flow (DCF) analysis, often overlook the cost of equity, which can lead to overvalued or undervalued companies, particularly in capital-intensive sectors like real estate. The Residual Income method, by considering both the company's net income and the cost of equity, provides a more accurate representation of whether a company is truly creating shareholder value (Koller et al., 2010).

Investors can use RI to focus on companies that generate returns beyond their cost of equity, signaling a strong capacity for value creation. Positive RI indicates that the company is outperforming its cost of capital, making it a potentially attractive investment opportunity. Conversely, negative RI suggests that the company is failing to meet investor expectations and may require closer scrutiny or avoidance (Stewart, 1991). By analyzing the RI, investors can assess the risks associated with their investments. Negative RI companies typically signify poor financial health and higher risk, while those with consistently positive RI are more likely to provide stable returns (Damodaran, 2012). This helps investors manage their portfolios effectively by allocating capital to companies with better long-term prospects.

The Residual Income method provides a more comprehensive and realistic approach to company valuation, particularly in sectors like real estate where capital-intensive investments are common. Traditional valuation methods, such as DCF, are highly dependent on accurate cash flow projections, which can be difficult to estimate, especially in volatile markets. The RI method, however, offers a way to directly measure a company's ability to generate value over and above its equity costs. By incorporating the cost of equity into the valuation, the RI method addresses one of the critical limitations of other models. This allows financial analysts to produce valuations that are more aligned with the actual financial performance of a property company, considering both profitability and capital efficiency (Penman, 2010). Such valuations are more likely to reflect the true market value, providing more reliable guidance to investors, analysts, and stakeholders. The RI method also helps in benchmarking a company's performance against its peers in the property sector. By comparing RI values, analysts can identify companies that are efficiently utilizing their capital relative to others in the market. This adds another layer of insight for making informed investment or acquisition decisions.

For property companies themselves, understanding and applying the RI method can lead to better financial strategies, ensuring that capital is being used efficiently to maximize value creation. Companies with positive RI are better positioned to reinvest in profitable projects or expand their operations without needing to raise additional equity capital. This indicates a strong capacity for organic growth and financial sustainability. Property companies can use RI as a performance metric to assess which divisions or projects are generating sufficient returns to justify further investment (Brigham & Ehrhardt, 2013).

The RI method provides companies with a clear indicator of whether they are generating enough return to meet the expectations of their shareholders. Negative RI can act as a signal for

management to review their operational strategies, cost structures, or financing arrangements. This might include reducing operational inefficiencies, reassessing pricing strategies, or considering debt refinancing to lower the cost of equity (Koller et al., 2010). By focusing on generating positive RI, property companies can adopt a long-term view of financial performance. The RI method encourages a strategic approach to growth, emphasizing the importance of sustainable profitability over short-term gains. This is especially important in the property sector, where projects require significant long-term investments and have extended payback periods.

3.4 Limitations

One of the primary limitations is the availability and accuracy of financial data. The Residual Income method requires comprehensive financial statements, including the company's net income, equity, and cost of equity. Inaccurate, incomplete, or inconsistent data can significantly distort the results. For property companies, this issue is particularly prevalent because their financial reports may involve complex valuations of assets, depreciation, and market fluctuations that are difficult to quantify accurately (Penman, 2010). In emerging markets or less transparent economies, data may be sparse or unreliable, reducing the reliability of the RI measure. The real estate sector often faces challenges with property valuations, as real estate markets can fluctuate dramatically based on supply, demand, and external factors like regulatory changes. Estimating the cost of equity and future profitability in such an environment may be challenging, leading to less precise evaluations (Damodaran, 2012).

The Residual Income model relies on several assumptions that may not hold in all market environments. One significant assumption is that the company's cost of equity remains constant, which may not be the case in volatile markets. Changes in interest rates, macroeconomic conditions, or investor sentiment can cause significant fluctuations in the cost of equity (Koller et al., 2010). In such cases, the RI model may not fully capture the company's true financial performance, especially for long-term investments like those in the property sector, where financing costs and returns can change over time. The assumption that the cost of equity is accurately determined can lead to significant errors in calculating the RI. If the rate is underestimated or overestimated, it may lead to misleading conclusions about whether a company is creating value or not (Brigham & Ehrhardt, 2013). Additionally, using historical data to determine the cost of equity may not reflect future market conditions, making it challenging to predict future performance accurately.

The Residual Income method also assumes a stable or predictable market environment. However, external factors such as inflation, economic downturns, or rapid shifts in interest rates can greatly affect the financial performance of property companies. Real estate is particularly sensitive to such changes, as property values and rental incomes are subject to significant market fluctuations. During times of economic uncertainty, such as recessions, property companies may struggle to meet their cost of equity, leading to negative RI values, even if the company's underlying assets hold long-term value. The cyclical nature of the real estate market can also complicate the use of the RI method. Property companies may experience periods of significant growth followed by downturns, making it difficult to use past performance as a reliable indicator of future returns. The long-term nature of real estate projects adds another layer of uncertainty, as short-term changes in market conditions can have lasting impacts on profitability (Stewart, 1991).

The Residual Income model may not be suitable for all property companies, particularly smaller or less established firms. For these companies, it may be challenging to accurately calculate the cost of equity or obtain reliable data for income and asset valuation. The model works best for larger, more established firms with stable revenue streams and access to capital markets, which may not be the case for every property company (Damodaran, 2012).

4. CONCLUSION

The research aimed to evaluate the financial performance of property companies using the Residual Income (RI) method, a key tool for assessing the value generated above the cost of capital. The study's main findings suggest that the RI method offers a more accurate and comprehensive evaluation of financial health compared to traditional performance metrics like return on equity or earnings-based measures. By factoring in the cost of equity, the RI method highlights the true profitability and value creation for shareholders, making it particularly valuable for property companies that often deal with significant capital investments and long-term projects. Additionally, the RI method helps investors and analysts make better-informed decisions about property company valuations, as it integrates both profitability and risk. This research contributes to the body of knowledge by emphasizing the advantages of the Residual Income model in the context of property

companies, an area where financial performance evaluations often rely on more simplistic models. It provides a detailed framework for applying the RI method specifically to the real estate sector, offering practical insights for analysts and investors. By showcasing the method's ability to account for capital costs, this study enhances the understanding of property company valuations and helps investors identify value-creating firms more effectively. The practical implications of this research are significant for various stakeholders in the property industry. For investors, the RI method serves as a robust tool to assess whether a company is generating sufficient returns relative to its capital costs, providing a clearer picture of its profitability and potential for long-term value creation. Financial analysts can use the RI model to enhance their valuation techniques, moving beyond traditional methods to incorporate a more dynamic and cost-sensitive approach to assessing company performance. Property companies, in turn, can use the RI model to improve decision-making regarding capital allocation, operational efficiency, and investment strategies, leading to better financial performance and shareholder value. However, this research is not without limitations. First, the accuracy of the RI calculations depends heavily on the availability and quality of financial data, which can vary significantly across property companies. Inaccurate or incomplete data, particularly concerning property valuations and financing costs, can lead to distorted results. Second, the model assumes that the cost of equity remains constant, which may not always reflect the dynamic nature of the real estate market. Changes in interest rates, economic conditions, or investor sentiment can lead to fluctuations in the cost of equity, making the RI method less reliable in highly volatile market environments. Lastly, the study focuses primarily on larger property companies, and the applicability of the RI method to smaller firms or startups may be limited. Future research could address these limitations by incorporating more diverse datasets, including smaller property companies or real estate startups, to determine whether the RI method is equally effective across different company sizes and market segments. Additionally, further studies could explore the incorporation of external factors, such as market volatility or economic downturns, into the RI calculation to better account for risk in the property sector. Lastly, comparative studies that examine the Residual Income method alongside other financial performance models, such as Economic Value Added (EVA) or Discounted Cash Flow (DCF), could provide deeper insights into which model offers the most reliable performance evaluation for property companies under various conditions.

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