

Ratio Analysis Approach on Quality of Employees

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In the field of finance and accounting, ratio analyses have become the preliminary concentration prior to progressing to any advanced discussion. The same is true for numerous studies on quality of employees. It may be relatively safe to say that the true connections between the two, if any, may have received minimal attention. Based on the perspective of the knowledge-based theory of the firm, this paper attempts to study the connection between the quality of employees and ratio analysis. Employees are seen as an increasingly important factor in handling the future market uncertainties and minimizing the organizations' potential downturns. In preliminary literature, qualitative studies have been undertaken concerning the theory of the firm, including its development, as well as its implications to supply chain management, consumer behavior and customer satisfaction. For the purpose of the study, the quality of employees is measured only on basis of employees' skills and abilities, and the ratio analyses are also limited to growth ratios (sales growth, net profit growth, and cost reduction). It is expected that the higher the quality of employees, the higher the growth ratios of any given firm. A cluster sampling method is used in this study to note the characteristics of small enterprises in certain locations. Aside from the qualitative analyses, which are based on interviews and field observations, a combination of statistical software packages are used as tools toward performing quantitative analysis. Research is conducted by gathering data from primary and secondary sources in service industries in Jakarta and Bandung. As stated, it is expected that such studies would reveal the significance of connections between quality of employees and ratio analysis. It is expected that such issues are mostly true for small/micro businesses, perhaps.

Introduction

Management of human resources has become the central focus in management practices for years. The reason is relatively simple as the firm's human resources play a fundamental role in ensuring firm's daily operational activities, and thus, firm's viability in years to come. Using the perspective on the knowledge-based theory of the firm (Anantadjaya, 2009a, and Anantadjaya et al., 2010), this paper attempts to perform ratio analysis on the quality of human resources inside organizations.

Human resources represent the 'breath and blood' of organizations. Many firms have seen substantial growth given the quality of human resources. Ironically, it is also undeniable that large corporations have seen substantial slide, including the required step on filing for bankruptcy,

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regardless of the superb quality of human resources. The recent global crises have certainly shown such drastic slides. Figure 1 suggests that human resources represent human capital for firms that can contribute onto the overall organizational performance, and value creation. This is an evidence that the pool of human resources is seen as an increasingly important resource¹ in grasping market opportunities, combating uncertainties and minimizing firm's shortcomings.

Theoretical References

Definition and Scope of Intangible Assets

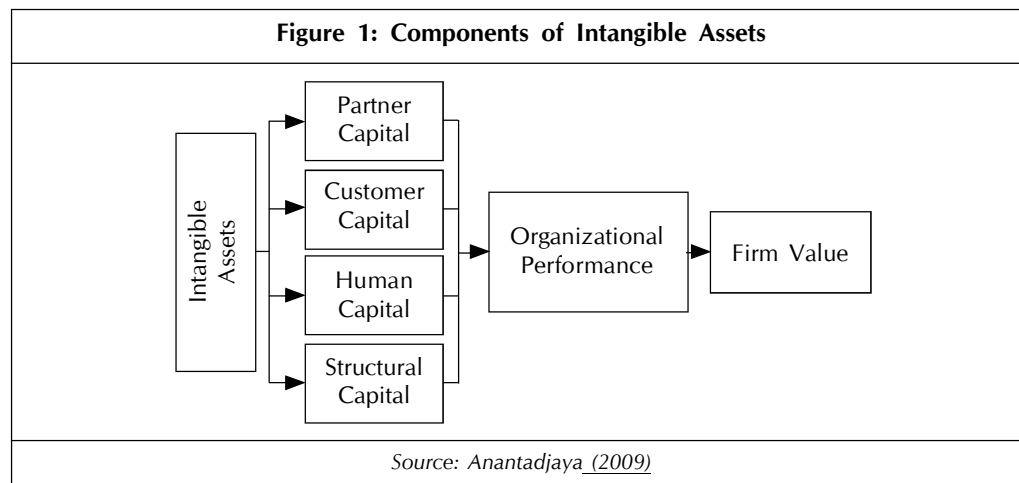
The word 'intangible' basically refers to the inability of being defined or determined with certainty. Thus, 'intangible assets' refer to the undefined, undetermined, or non-physical objects with potential to generate future profits (Colombo and Grilli, 2005; and Anantadjaya, 2009a and 2009b). Unlike products, which are usually considered tangible, intangible assets lack formation and shape, which makes them relatively impossible for anybody to adjudge. Services certainly fall under this category.

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Looking from the point of view of managerial practices, intangible assets, or known as intellectual capital, can be divided into four different forms as per the organizational competitive base (Stewart, 2005; and Anantadjaya, 2009a and 2009b) (see Figure 1):

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1. Human Capital (HC) concerns skills, talents, capabilities, and expertise to perform any type of activities in any organization. This appears to be the main driving force of organizational competitive base since all other types of capitals require the presence of human resources, and thus, human capital as well, prior to the actual start-up and development.



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2009a or 2009b
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¹ The preliminary studies on firm's resources were initiated by Edith Penrose (Anantadjaya, 2009a), who initially researched the internal management processes and practices. The management processes and practices heavily influenced the organization-wide behaviors. Such behaviors lead firms into dynamic interactions with other firms, while attempting to improve the creative thinking of management. Acquiring additional resources from external sources may be one sign of outcome from the dynamic interaction and creative thinking of management. Thus, firms are no longer constrained to only a bunch of resources on-hand.

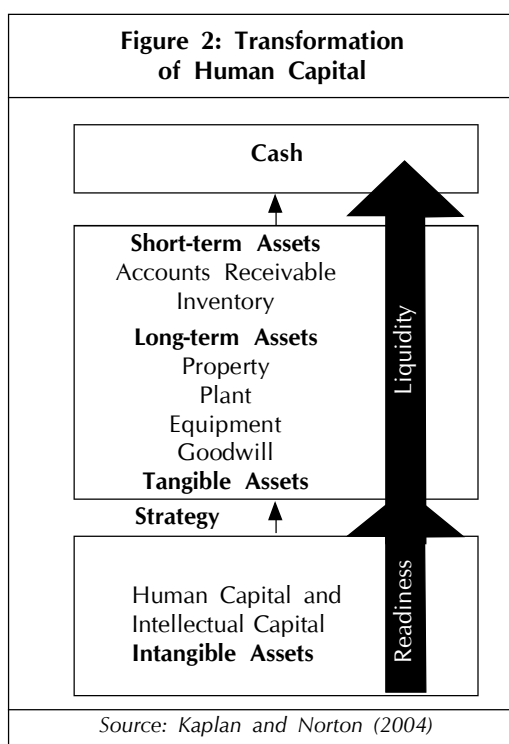
2. Structural Capital (SC) concerns systems, procedures, policies, and rules in any organization, which allow the effective utilization of HC in creating organization-wide information systems as well as managerial competences. SC also includes shared vision and mission, availability of qualified leaders at all levels to mobilize the organization toward strategies, alignment of goals and incentives with the strategy at all organizational level, and the sharing of knowledge and staff assets with strategic potential.
3. Customer Capital (CC) consists of customer relationships in any organization, which allow effective utilization of HC in creating the necessary customers own version of SC,² in the form of database to establish the customer relationship management, while recognizing to whom the products and services are sold to.
4. Partner Capital (PC) consists of other individuals and/or other institutions with whom a particular organization is establishing cooperative agreements. It means that organizations should have strategic partners in dealing with operational activities

while maintaining cutting-edge position in the marketplaces (Colombo and Grilli, 2005; and Anantadjaya, 2009a). This type of resources denotes strategic value-creation for organizations.

The above explanation provides evidence that there has been a major shift in the organizational use on revenue building. Earlier organizations used to focus on the more liquid assets, which can be turned into cash within a relatively short-term. Today, more organizations focus on building long-term assets as a part of the firm's strategy in winning the market.

The illustration in Figure 2 shows the steps to transform intangible assets into cash via direct support of the firm's strategy,³ and the growth of revenues and/or cost reduction, due to increased productivity. It is evident that the ability and competences of human resources serve as a driver of firm's future cash

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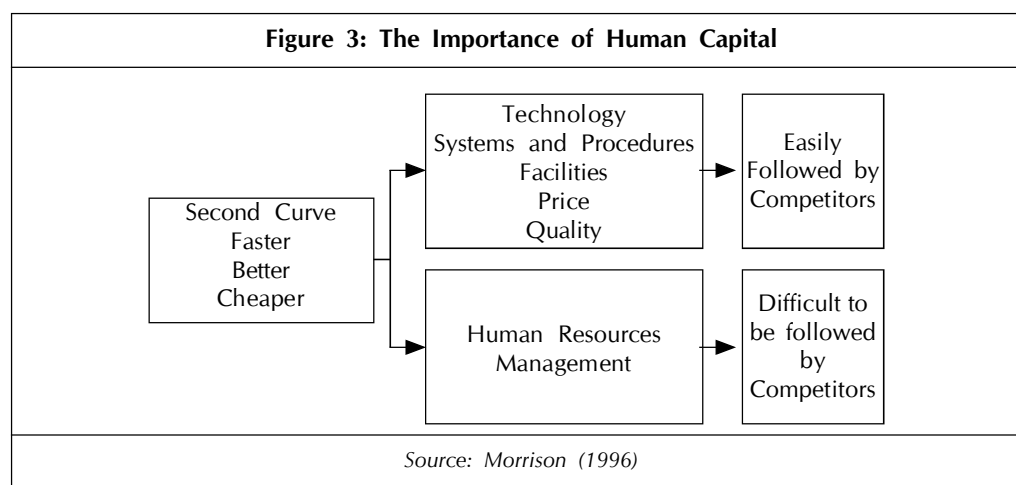


² This can take various forms, such as a complete database to establish customer relationship management, customer research, websites, and e-commerce, perhaps.

³ At least, two firm's strategies are worth noting—revenue growth and cost reduction. Such strategies can be achieved via a higher level of productivity. A higher level of productivity is the result of higher human resources capabilities. In this paper, such human resources capabilities are referred to as human capital, or intellectual capital (Kaplan and Norton, 2004).

inflows, though the impact may well be in long-term. The actual use of property, plant and equipment, and the efficient use of space in the warehouses portray the need of sophisticated intelligence of the firm's personnel in calculating the available space. Operating computer software to assist the accurate measurements is also another factor that requires sufficiently high level of personnel competences. A computer unit may be seen as a mere machine to perform data entry. However, for more experienced staffs, who may have mastered the use of a computer, may well be using it to produce many other outputs.

Hence, it is evident that the components⁴ of intangible assets should be in-place to support the ultimate value creation for firms. Lacking on any of the components of intangible assets may diminish organizational competitiveness. Hence, strengthening the components of intangible assets will provide significant boost to the organizational performance in years to come. This is simply due to the difficulties in copying or duplicating the intangible assets by the competitors (Morrison, 1996).



The illustration in Figure 3 on the importance of human resources, by Morrison (1996), indicates that many aspects within a firm are considered to be easily followed, and copied by the competitors. Such aspects will provide solid grasp in maintaining existence in marketplaces. High-technologies, for example, can sure be instantly copied by competitors, by simply purchasing the available high-tech assets in the market. Friendly-facilities with handicapped access and the updated safety measures can also be easily copied by the competitors. On the other hand, investments toward firms' human resources create huge barriers for competitors, as such investments have the potential to enhance the firms' value creation (Colombo and Grilli, 2005; Florackis, 2005; Anantadjaya and Nawangwulan, 2006; Anantadjaya, 2007, Anantadjaya *et al.*, 2007; Brahmabhatt and Hu, 2007; and Richieri *et al.*, 2008).

The illustrations show evidences that the role of human resources directs future success (Morrison, 1996; Kaplan and Norton, 2004; and Colombo and Grilli, 2005). An increased

⁴ According to Anantadjaya (2009a and 2009b), there are four components, which make-up the firm's intangible assets, whereas Kaplan and Norton (2004) indicate three components.

level of employees' skills is of major importance in many economic activities (Anantadjaya, 2009a). It appears that the more firms try to enhance the quality of its human resources, the more successful the firms become. This is simply due to the improvement of existing skills, or attainment of new skills to perform existing tasks better or to perform new tasks. This contributes to superior performance (Anantadjaya, 2009a). In short, objectives in human capital must be aligned with objectives of internal processes, and integrated with each other. It means that the human capital should build upon the capabilities created in other intangible and tangible assets, rather than creating independent capabilities with no synergies between human capital and other components.

Measuring Human Capital

It appears rather intimidating to measure human resources of organizations, other than merely calculating the total number of them in any given firm. Most practices apply the amount of money spent in developing human resources to the firm's bottom-line. Though such practices seem to be common and widely acceptable, it may not provide the overall picture of the bottom-line. Measuring human capital should be based on how well the human capital is aligned and integrated to the firm's strategy (Kaplan and Norton, 2004; Colombo and Grilli, 2005; Florackis, 2005; Stewart, 2005; Sangkala, 2006; Richieri *et al.*, 2008; and Anantadjaya, 2009a), but not by how much the firm has spent to develop those human resources (Kaplan and Norton, 2004). If the improvements of human capital are aligned and integrated with the firm's strategy, it would be able to create much greater value. Similarly, if the development of human capital is not aligned and integrated with the firm's strategy, it would be able to create value, regardless of the total costs incurred on training and development programs that the firm has engaged in. Popular measurements include the following, but are not limited to them: productivity, Total Quality Management (TQM), market value, accounting value ratio, Tobin's Q ratio, real options, intangibles asset monitor, knowledge capital value, Enterprise Value Added (EVA), Return on Capital Employed⁵ (ROCE), Return on Equity⁶ (ROE), Return on Assets⁷ (ROA), Return on Sales⁸ (ROS), Return on Investment⁹ (ROI), Inventory Turnover¹⁰ (ITO), human resource costing and accounting, and many others (Richieri *et al.*, 2008).

To really know the value of the human capital of a particular firm is considered to be troublesome. This is the reason why accounting records are mostly used to reveal the various values with respect to human capital. Productivity is a common measure of human resources. The comparison between inputs and outputs is beneficial to note the workers' level of productivity. The lesser amount of inputs relative to the higher amount of outputs indicates a much higher level of productivity. This is certainly what is expected by most firms.

⁵ ROCE equals to $EBIT/(TA-CL)$, or $EBIT/(FA+WC)$, where TA refers to total assets, CL refers to current liabilities, FA refers to fixed assets, and WC refers to working capital.

⁶ ROE equals to NI/TE , where NI refers to net income, and TE refers to total equity.

⁷ ROA equals to NI/TA , where NI refers to net income, and TA refers to total assets.

⁸ ROS equals to NI/TS , where NI refers to net income, and TS refers to total sales.

⁹ ROI equals to NI/TI , where NI refers to net income, and TI refers to total investment.

¹⁰ ITO equals to $COGS/Average\ Inventory$, where COGS refers to cost of goods sold, and average inventory refers to the average between beginning and ending inventory.

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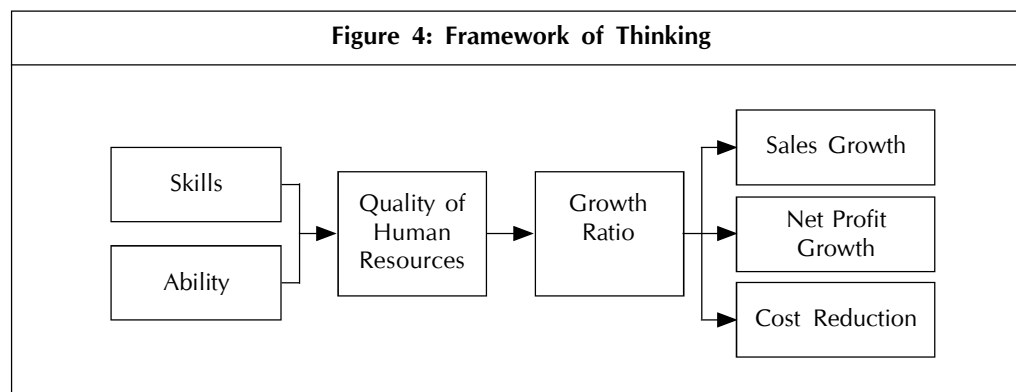
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Though the previous measurements appear decent, this paper aims to gauge the quality of employees based only on the perspective of growth ratio, namely, sales growth, net profit growth, and cost reduction. Since small/micro businesses are the focus of this study, financial measurements from such organizations are represented in daily average over a minimum of 6-month period, up to July 2010. The main reason for this is the simplicity of such organizations' financial records. Complete financial records to reflect the accurate accounting principles are rarely incorporated. Nevertheless, it is expected that those financial data are sufficient to address the growth ratio of the quality of human resources.

Research Model

The framework of thinking in this study is illustrated in [Figure 4](#). The figure illustrates that the quality of human resources is crucial in enhancement of the organizational growth ratio. It is expected that as the quality of human resources improves, the organizational growth ratio increases.

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Research Methodology

The cluster sampling method is used in this study to note the characteristics of the small/micro businesses in certain locations and particular industries. Research is conducted by gathering data from primary and secondary sources in service industries in Jakarta and Bandung. Variables chosen in this study are: skills, ability, sales growth, net profit growth, and cost reduction.

Results and Discussion

Based on the previous studies by Yogaswara *et al.* (2005 and 2006), the original sample consists of only 50 respondents, whose businesses are still relatively young, and operate in the service industries in Jakarta and Bandung. The products/services of these establishments range from bakery/cakes, hairdresser/barbershop, laundry/dry cleaning, delivery/courier services, copy center, computer/internet rentals, cellular phone vouchers, garment, textile and tutorial center for computer and language training. For the purpose of this study, more respondents are added to broaden the coverage.

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Out of a total of 150 additional questionnaires distributed, only 118 questionnaires were usable, mainly due to lack of financial information and misunderstanding of various questions,

which resulted in incomplete responses. This represents 78.67% rate of response. With these 118 additional questionnaires, the total usable questionnaires in this study are 168 respondents. There were no significant differences in the demography or responses regardless of the city. Thus, despite the specificity of the business forms of the respondents, as mentioned above, their responses were combined.

The summary of respondents' characteristics is as follows: (a) About 62% of respondents were male; (b) About 52% of respondents were at least 36 years old; (c) About 57% of respondents live in Jakarta; (d) About 43% of respondents had set up hairdresser/barbershop, 22% learning center, 16% copy center, 8% bakery/cakes, and the remaining 11% other business forms; (e) About 40% of respondents are staff; and (f) About 52% of respondents claimed that their individual monthly expenses are at least Rp. 3 mn.

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The following is the summary of respondents' financial measurements: (a) The respondents' daily average sales were about Rp. 261,000; (b) The respondents' daily average operating expenses were about Rp. 88,000; (c) The respondents' monthly average net income was about Rp. 1.5 mn; (d) The respondents' monthly average sales growth rate was about 1.54%; (e) The respondents' monthly average net income growth was about 0.56%; and (f) The respondents' monthly average cost reduction was about -55.95%.

A total of 200 respondents¹¹ were distributed a set of questionnaires concerning their personal information and other financial measures, as mentioned above. The case processing summary (see Table 1) indicates that all 168 cases are considered valid. The variables are measured using the 5-point Likert's scale. The available data are verified using a reliability statistic, which indicates a convincing 83% reliability (see Table 2). This indicates that ~~the data~~ are sufficiently reliable for further processing. Standardized Z-scores are used in further analysis due to large variations in the dataset.

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		N	%
Cases	Valid	168	100.0
	Excluded ^a	0	0.0
	Total	168	100.0
Note: ^a List-wise deletion based on all variables in the procedure.			
<i>Source: SPSS Student Version</i>			

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From Table 3, it is apparent that the values of ratio do not show a relatively high correlation. In fact, there are two variables whose correlations are less than the minimum standard value, and one variable with a marginal 'passing rate' of the suggested minimum value of 0.250. Nonetheless, since those values reflect the true conditions of the small/micro businesses, these two variables are maintained for further analysis. One prominent reason of doing so is simply the fact that these small/micro businesses do not follow the practice of

Cronbach's Alpha	Cronbach's Alpha Based on Standardized Items	No. of Items
0.233	0.843	9
<i>Source: SPSS Student Version</i>		

¹¹ Fifty respondents from the first study, and an additional of 150 respondents from the second study.

accounting standards in recording their transactions. Their records are mostly based on daily transactions of either cash-in or cash-out. On the other hand, the measurements of quality of employees show satisfactory correlations.

Referring to Table 3, in relation to the quality of employees, the correlation table provides few notable points:

- The indicator ‘training’ influences 72% quality of employees. This is to say that mostly the respondents agree that training influences quality of employees. However, this may be easier said than done. During a much deeper informal interview with

Table 3: Total-Item Statistics

	Scale Mean If Item Deleted	Scale Variance If Item Deleted	Corrected Item-Total Correlation	Squared Multiple Correlation	Cronbach's Alpha If Item Deleted	Correlation ≥ 0.250
ZT	0.0060	60.697	0.720	0.754	0.807	Yes
ZB	0.0067	59.140	0.830	0.851	0.800	Yes
ZREC	0.0060	59.171	0.828	0.841	0.800	Yes
ZED	0.0065	59.864	0.779	0.811	0.803	Yes
ZSAL	0.0045	60.849	0.710	0.779	0.807	Yes
ZPOS	0.0036	62.764	0.578	0.629	0.815	Yes
ZSG	0.0065	73.492	-0.192	0.059	0.853	No
ZNIG	0.0070	72.872	0.333	0.035	0.851	Yes (Marginal)
ZCR	0.0064	72.492	-0.234	0.181	0.850	No

Source: SPSS Student Version

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the respondents, it was revealed that training may not be feasible for small/micro businesses since any kind of training involves quite a large sum of financial constraints.

- The indicator ‘bonus/incentives’ influence 83% quality of employees. Similar to the above explanation, most of the respondents agree that the amount of bonus/incentives relates strongly to the quality of employees. As the amount of potential bonus/incentives increases, qualified employees have a tendency to go for the extra miles attempting to receive the maximum amount of bonus/incentives. The majority of small/micro businesses perform their daily activities using this bonus/incentive scheme to lure the employees into performing at their best capacity.
- The indicator ‘recognition’ influences 83% quality of employees. Most respondents agree that the amount and/or frequency of recognition relate strongly to the quality of employees. This goes both ways. As more recognition is extended to employees, their quality of work increases. Likewise, only top quality employees are likely to receive frequent recognition. The compactness of small/micro businesses provides

an excellent opportunity to closely monitor the employees.

- The indicator 'education' influences 78% quality of employees. Most respondents agree that the length of education relates strongly to the quality of employees. Nonetheless, the informal interview with practitioners of small/micro businesses, revealed that though education is certainly important and has the potential to improve the quality of employees, small/micro businesses may decide to overlook the level of one's educational background and search for low-skilled laborers. This is pertinent to the scope of work and responsibilities in small/micro businesses. Small/micro businesses have the tendency to search for people who are simply willing and are able to work, instead of their formal academic degrees. This indicator mirrors closely the training indicator mentioned above.
- The indicator 'salary' influences 71% quality of employees. This indicator is similar to bonus/incentives mentioned earlier. Most respondents agree that the amount of wage/salary relates strongly to the quality of employees. As qualifications of individuals increase, the amount of potential wages/salaries increases. Hence, the rate of wage/salary portrays the quality of employees. The majority of small/micro businesses operate their daily activities using this wage/salary scheme as a basic portion to the total compensation package. It is expected that such a scheme would push employees into working harder and diligently. Small/micro businesses seldom use a full salary package without incorporating portions of bonus/incentives.
- The indicator 'position' influences 58% quality of employees. Though position may often be regarded as one of the major indicators for large organizations, positions in small/micro businesses do not necessarily represent any significance of one's quality. Often, positions in small/micro businesses are only a mere formality, to be used only as a requirement in business licensing procedures. If there are positions held by other than family members, those individuals are appointed based on seniority, and not on quality.
- The indicator 'sales growth' influences –19% quality of employees. This indicator fails to provide evidence on the quality of employees. Generally, it is expected as the quality of employee increases, small/micro businesses experience higher sales growth. Unfortunately, financial data from the small/micro businesses did not support the initial expectation. Informal interview with practitioners of small/micro businesses revealed that, they believe that they were experiencing sales growth due to experience. They were able to see more customers, sold more products/services, have extra money to purchase stocks, including stocking-up more inventory. However, the financial data failed to conform to such claims. In fact, the financial data revealed that as the quality of employee increases, the sales growth slides down by 19%.
- The indicator 'net income growth' influences 33% quality of employees. Contrary to the explanation above, the result indicates that as quality of employee increases,

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the possibility of small/micro businesses to generate net income swells. Interview sessions revealed that this was simply due to the employee's experience in performing the prediction and management of inventory for the future operation.

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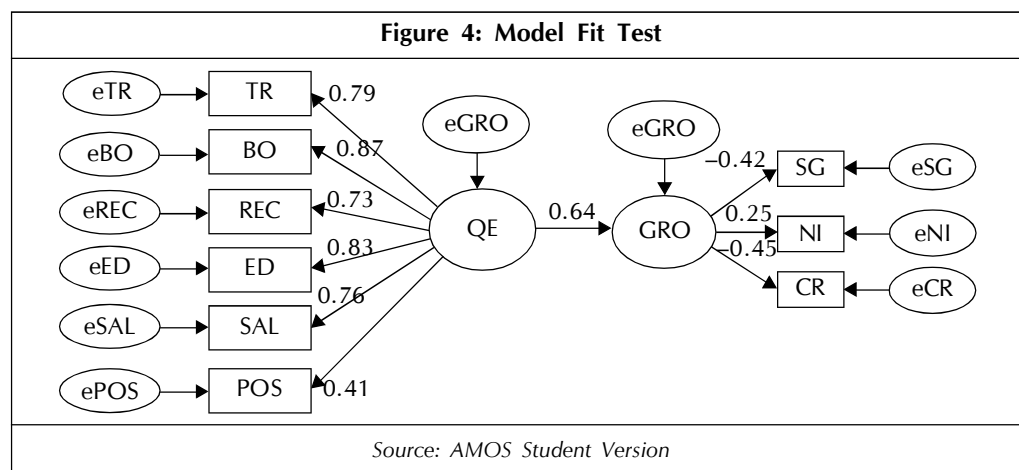
- The indicator 'cost reduction' influences -23% quality of employees. Again, in contrary to the previous indicator, as the quality of employee increases, small/micro businesses experience higher cost of production. Interview sessions revealed that as qualified employees flock into small/micro businesses, the general working requirements and specifications heighten. Examples of the general working requirements and specifications are: more advanced tools and equipment, better/powerful computers, better printers, faster internet access, as well as superior administration systems and filling. Further, the level of wages and salaries may have been the ultimate driver that cause cost reduction to be negatively impacted by the quality of employees. Undoubtedly, more qualified individuals seek for better compensation packages.

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Figure 4 shows the research model and the relationship among variables. Although not all values follow the prescribed model fit test, at least this model is able to bring up initial perspective of ratio measurements on quality of employees in small/micro businesses. As shown in the illustration of a structural model, the relationship among variables appears to support the preliminary findings. In terms of quality of employees, all variables chosen have shown relatively strong and positive correlation. For the growth ratio, however, net income growth is the only one with a positive correlation, whereas sales growth and cost reduction have negative correlations. These indicate that net income is aligned with the quality of employees. Ironically, sales growth and cost reduction are negatively correlated with the quality of employees.

As indicated before, the negative values of sales growth and cost reduction are in contradiction with the expectation and the theory. Based on the interview sessions, one possible explanation for this phenomenon is that the required work and scope of responsibilities in small/micro businesses may not require high-quality employees. This may pose as the biggest

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drawback on the measurements used. Also, since the small/micro businesses do not have sophisticated financial records to be fitted in the calculations on ratio analysis, this may also be the source of the issue that resulted in such negative relationships.

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Table 4 provides the model fit criteria for the structural model presented above. As shown, the values are relatively marginal for the model to be considered as best fit. Nonetheless, due to the difficulties in compiling the financial records of the small/micro businesses, this opens doors to the underlying issues in organizational performance, both from the perspective of employees' performance measurements, and organizations' objective performance accomplishments.

Table 4: Model Fit Test					
Model	RMSEA	CFI	TLI	NFI	PNFI
Default Model	0.219	0.625	0.651	0.702	0.731
Saturated Model		1.000		1.000	0.000
Independence Model	0.355	0.000	0.000	0.000	0.000
<i>Source: AMOS Student Version, Modified</i>					

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Conclusion

Statistical tests and results above provide evidence that a number of variables are significant in shaping the quality of employees and its relationship with growth ratio. This study can safely conclude that quality of employees statistically impacts the growth ratios. Though such results may have to be tested further to apply across the board, particularly into bigger marketplaces, it fulfills the preliminary objective of inspiring factors to focus on to boost the organizational growth ratios. This is particularly true, at least, for small/micro businesses in Jakarta and Bandung. If such results were assumed to be acceptable in general, for instance, it would have been safe to claim that the quality of employees impacts positively net income growth, but negatively sales growth and cost reduction. Hence, if organizations would like to ensure high performance level to create value, organizations must adhere to the influencing factors mentioned above. This includes better financial recording to ease up the process in ratio calculations.

However, it should be noted that this study has some deficiencies. The limitations of this study are:

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- Referring to the scope of intangible assets, as discussed above, this paper focuses only on the human capital aspect of the intangible assets. This paper defines 'human capital' to represent human resources, or employees, in organizations.
- It focuses only on the growth ratio, such as sales growth, net profit growth, and cost reduction.
- It focuses on small/micro businesses, whose financial records are relatively basic, and do not necessarily follow the prevailing accounting standards.
- It focuses only on two cities in Indonesia, Jakarta and Bandung.
- Finally, it focuses only on a handful of respondents, based on a non-probability

cluster sampling method.

Thus, future studies may have to concentrate more on larger population, including more small/micro businesses, covering more cities and towns, and attempting to test more measures of quality of employees, including more financial ratios. This would enable the model to be applied in general. Also, additional variables such as price level, numbers of years the organization has been in business, the availability of business licenses, external funding, number of family members and non-family members in the organizations, etc., should be incorporated in the study. The suggested variables may eventually enrich the study on the level of quality of employees. ■

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