

User Competency and Its Effect of Accounting Information System Implementation

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Abstract: - The application of good governance is an obligation in preparing Local Government Financial Reports. From the results of the audit opinion from the Supreme Audit Agency, there are several findings that explain that not all local governments can prepare financial statements in accordance with the Government Accounting Standards specified. The purpose of this study is to examine the effect of Apparatus Competence (skills and knowledge) on the quality of accounting information systems. This research was conducted at the Regional Government in the city of Banjar Patroman, West Java Province, Indonesia. Data are primary data collected through questionnaires. Data is processed using Partial Least Square. The results of this study indicate that Apparatus Competencies (skills and knowledge) influence the accounting information system. The results of data processing for apparatus skills show that the path coefficient value is 0.063, which explains that for each standard deviation of one point in the skill score will result in an increase in the accounting information system score for the standard deviation of 0.063 points. This means that improving skills will contribute positively to the quality of accounting information systems. The path coefficient for employee knowledge is 0.381, which explains that for every one standard deviation point in the knowledge score will result in an increase in the accounting information system score for the standard deviation of 0.381 points. This means that increasing knowledge will contribute positively to the quality of accounting information systems.

Key-Words: Skills, Knowledge, Accounting Information Systems, Competency

1 Introduction

Some experts claim that the accounting standards cannot be applied in a company, caused by several issues, internally or externally. Internal factor such as the limited knowledge of accounting personnel, integrity of the personnel (process and/or data manipulation for personal gain) [1]. This fact is supported by later research which finds the quality of financial statements for the regional areas in Indonesia are still poor, and this is caused by the quality of the human resource [2]. Later research found that when the government compiling accrual-based financial report, not all the personnel involved came from accounting background [3]. Competency is a knowledge that can be proven, and consists of skills and behavior which can improve performance [4]. Competency is associated with skills, knowledge, abilities and personal characteristics

which enable employee to work successfully [5]. The competency is a worker characteristic which underlying successful performance or behavior at the workplace [6].

Every information system requires competence person who uses the system, or called user [7]. The most important factor to successful information system is the availability of resource, including human resource and the knowledge of the system [8]. Accounting knowledge of manager and system owner influence greatly to the success of available accounting information system implementation [9]. Analysis unit for this research is the city of Banjar Patroman, West Java. The reason for this city is chosen as analysis unit based on the statement of the statement of the Major, UU which explained that the city still needed improvement of human resources in official environment [10]. This statement was based

by complains by the citizens for poor public services.

Every people who interacts with the system can be stated as user [11]. Another view user as every people who use the system [8]. These statements then confirmed by Wiegers, who define user as persons who interact and use the system [12]. Competence refers to basic characteristic which describes behavior pattern, personal characteristic which is unique, self-concept, value, knowledge or expertise which leads to superior performance at the workplace [13].

Broader definition of competency is connected with skills, knowledge, abilities and personal characteristics which enable an employee to be successful in the workplace [5]. Dessler expressed that competency is expression of knowledge and skill, which can increase work performance. Competency involves knowledge, experience, skills and access to information and practice experience to work more practical [14].

Competency can be measured by knowledge, skill, capability, behavior and characteristic [15]. With that definition, we can ensure that competency is related to employee's skill, behavior, and capability to perform certain task or organizational function. Other definition of suggest that user competency is a basic individual character which has casual interaction to effectivity and excellence in certain work environment [7] [8] [12] [13] [4] [14].

Accounting information system has two interconnected purpose, the first one is to provide meaningful information to its user and to support decision making. Other purpose is to facilitate monitoring or decision making [16]. Effective information system will provide accurate, on time and relevant information to its user [17]. This information should be error free, available when it is needed. This information should also be useful for certain required type of work and decision.

In business environment, competency affect to advantageous business competitiveness [18]. Information system requires competence personnel [7]. People, or in this case, user, is an important element to successful of all information system [19]. Competent user, with their skill and experience to manage technical elements and information system

behavior is very important to the successful implementation of information system [19].

Information system requires competent personnel [7]. Manager and technical staff with information system competence will be needed to conduct planning and implementation of the system [20]. Keil revealed in his research some reason why some of information system implementation are failed: the lack of top managerial commitment, the lack of competency of new technology, the lack of commitment to the system [21].

Competency influence the quality of managerial accounting information system [22]. Competency can be defined as basic character which include knowledge and skill to be used by a manager in conducting his/her job, resulting in superior performance [23], and affect to the success and efficiency of managerial accounting information system to achieve company goals [24].

Generally, to be involved in a business system, human resource competency is highly required. Human resource competency consists of knowledge, skill and capability [23]. Result from research conducted at several Indian company show that technical competency of human resource is influencing factor to the success of ERP system implementation [25]. Another research show that competency of accountants and managers are important factors in the implementation of the accounting information system [26].

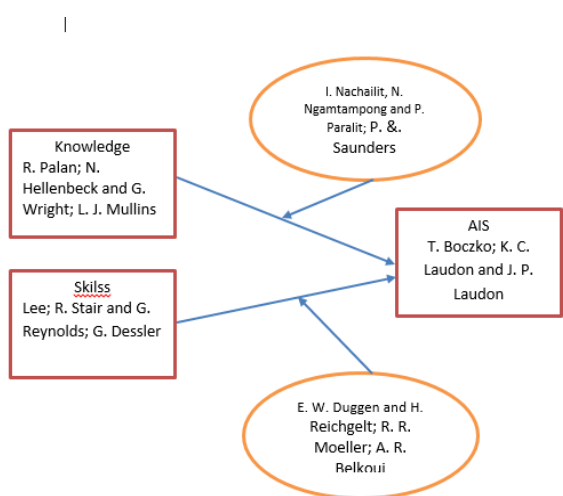
Other research show that competency of managerial team affect to the effectiveness of accounting process [27]. Furthermore, he explained the effectiveness of strategic accounting management will produce information of daily operational activities, which support the growth of the company, and provide insight of the company's future. Strategic management accounting is a part of managerial accounting information system; therefore managerial team competency will effect to the implementation of managerial accounting information system. This research was conducted to hotel industry in Thailand.

Along with the research above, Teyes conducted research to 119 telecommunications, manufacture, broadcasting and banking corporations in Malaysia. The result show that the implementation of accounting information system involves competency

[28]. Similar results are shown in Campanale’s research, which conducted at several health service units. The result explained that competency of the manager contribute to managerial accounting information system development and its implementation [29].

According to the description above, we can assume that competency will influence to the effectiveness/success/quality of accounting information system. Based on the prior discussion, the conceptual model / conceptual framework is shown in figure below:

Figure 1. Conceptual Framework



The proposed hypothesis in this study are:

Hypothesis 1:

The knowledge influence the quality of accounting information systems

Hypothesis 2:

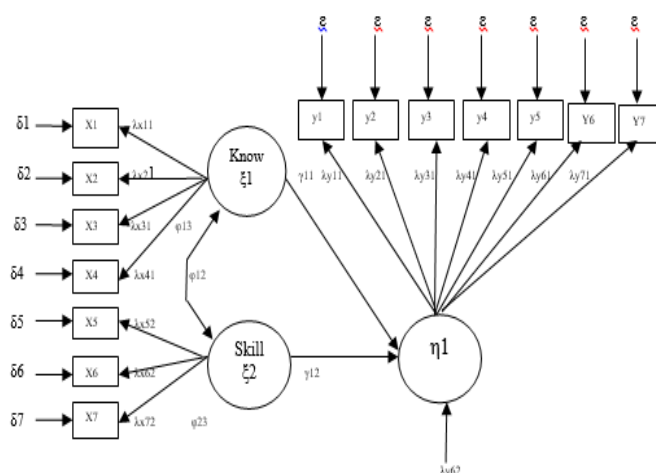
The skills influence the quality of accounting information systems

2 Research Methodology

The purpose of this research is to determine the effect of user competency (knowledge and skill) to the quality of information system. This study is a verify and explanatory research, since this research aims to list factors and how much those factors effect a variable by testing the hypothesis. Research unit for this research is local government at Banjar, West Java. This research uses rule of thumb as the sampling method. Respondents of this research are

49 people. Data is then analyzed with Partial Least Square (PLS) method. This method does not base on assumption, and the data cannot be normally distributed. Data scale should be various, with sample size between 30-50. Measurement and structural models can be seen in the figure below :

Figure 2. Structural Model



3 Results and Discussion

The purpose of this research is to determine the effect of user competency (knowledge and skill) to the quality of information system. This study is a verify and explanatory research, since this research aims to list factors and how much those factors effect a variable by testing the hypothesis. The demographic data of respondents are listed in the following table:

Table 1. The demographic data of respondents

Gender	Male	Female	
	63.83%	36.17%	
Education	Diploma	Bachelor	Master
	23.40%	46.81%	29.79%
Experience	<5 years	5-10 years	>10 years
	10.64%	46.81%	42.55%

Respondents in this study amounted to 63.83% were male. The most recent education for most respondents was undergraduate, while the tenure in

the current field (area of regional financial management) is between 5-10 years of service.

3.1. Structural Testing Models

Table 2. The Average Variance Extracted (AVE) and Composite Reliability

Variabel	AVE	CR
AIS	0.923	0.973
Skills	0.575	0.903
Knowledge	0.782	0.915

Source: the data was reprocessed

Based on Table 2, all indicators result in AVE more than 0.5, which means all indicators have acceptable convergence validity. All CR value for all indicators are above 0.7, which shows acceptable internal consistency.

Table 3 : Evaluation of Structural Model

No	Variable		Coefficient Effect				
	Exogenous	endogenous	(O)	(STDEV)	T-stat (O/STDEV)	P-value	Sig
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
1	Skills	AIS	0.063	0.081	8.740	0.00	Sig
2	Know	AIS	0.381	0.077	8.781	0.00	Sig

Source: the data was reprocessed

Based on table 3 the hypothesis can be arranged as follows:

1. The effect of competency skill o accounting information system. Statistical hypothesis:

$H_0 : \gamma_{11} = 0$ Skill does not effect to accounting information system

$H_1 : \gamma_{11} \neq 0$ skill does effect to accounting information system

Statistic test conducted with: Measurement and structural models can be seen in the figure below
 Measurement and structural models can be seen in the figure below

$$t = \frac{\hat{\gamma}_{11}}{SE(\hat{\gamma}_{11})}$$

Criteria: reject P-values if significance level less than 0.05. Table 2 shows that p-value 0.0, thus the hypothesis is rejected. It can be concluded that skill does effect to accounting information system, at 5%

significance level. Path coefficient is 0.063, which explains that for every one-point standard deviation in skill score will result in the increase of the accounting information system score for 0.063-point standard deviation. This means that the increase in skill will contribute positively to the quality of the accounting information system.

2. The effect of knowledge to accounting information system Statistical hypothesis:

$H_0 : \gamma_{21} = 0$ Knowledge does not effect to accounting information system

$H_1 : \gamma_{21} \neq 0$ Knowledge does effect to accounting information system.

Statistic test conducted with:

$$t = \frac{\hat{\gamma}_{2.1}}{SE(\hat{\gamma}_{2.1})}$$

Criteria: reject P-values if significance level less than 0.05. Table 2 shows that p-value 0.0, thus the hypothesis is rejected. It can be concluded that knowledge does effect to accounting information system, at 5% significance level.

Path coefficient is 0.381, which explains that for every one-point standard deviation in knowledge score will result in the increase of the accounting information system score for 0.381-point standard deviation. This means that the increase in knowledge will contribute positively to the quality of the accounting information system.

4 Conclusion

Accounting information system implementation will be better if the user equipped with appropriate competency. User competency can be derived to skill and knowledge. Better skill and knowledge of accounting information system leads to smoother and better implementation of the system. This research uses SEM PLS. The result shows that user competency (skill and knowledge) effects the quality of the accounting information system implementation, at 5% significance level or it can be explained that

1. With 5% significance level, skill positively effects the quality of accounting information system,
2. With 5% significance level, knowledge positively effects the quality of accounting information system.

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