Knowledge Sharing Behavior Factors of Public Sector Employees in Jambi City, Indonesia

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Abstract

The purpose of this research is to evaluate the individual, organizational and technological factors that influence knowledge sharing behavior among public sector employees in Jambi City. This is a survey and explanatory research with questionnaires used to obtain data from 86 employees in Jambi's public sector and analyzed using factor analysis. The results showed that individual, organizational, and technological factors, such as awareness and altruism, organizational rewards, and IT application usage, respectively, have a significant effect on knowledge sharing. This is opposed to self-efficacy and top management support.

Keywords: Knowledge Sharing; Knowledge Sharing Behavior Factors; Public Sector Employees; Jambi City

Abstrak

Penelitian ini bertujuan untuk mengevaluasi faktor faktor yang berpengaruh terhadap *knowledge sharing*, faktor faktor tersebut yaitu faktor individu, faktor organisasi dan faktor teknologi. Penelitian ini berjenis penelitian survei dengan tujuan eksplanatif, sampel yaitu sebanyak 86 orang pegawai yang bekerja pada sektor publik di Kota Jambi, pengumpulan data menggunakan kuesioner dan data diolah dengan analisis faktor. Hasil dari penelitian ini menjelaskan bahwa terdapat faktor individu yaitu *awareness* dan *altruism*, faktor organisasi yaitu *organizational rewards*, faktor tenologi yaitu *IT application usage* berpengaruh signifikan terhadap *knowledge sharing* sedangkan *knowedge self-efficacy* dan *top management support* tidak berpengaruh signifikan terhadap *knowledge sharing*.

Kata kunci: Knowledge Sharing; Faktor Yang Mempengaruhi Perilaku Knowledge Sharing; Pegawai Sektor Publik; Kota Jambi

INTRODUCTION

Knowledge is the best strategic asset needed by organizations in accordance with the inception of the digital era 4.0. According to Novak (2017), organizations have a greater percentage of success in the future by doing investment in knowledge. Similarly, studies related to knowledge have been widely conducted (Afsar et al., 2019; Asbari et al., 2019; Irawan et al., 2018; Nguyen et al., 2020; Yu et al., 2013) because it is closely related to the innovation process in private and public organizations.

Asbari et al. (2019) stated that knowledge is divided into two types, namely tacit and explicit. Tacit knowledge is obtained from individual experience while explicit knowledge is documented, such as procedures, literature, etc. These pieces of knowledge need to be properly utilized and managed by an organization through management. knowledge The importance of implementing knowledge management in an organization is to make the organization better and more focused. This process also leads to creating and distributing knowledge among individuals through an effective process known as knowledge sharing (Ngah and Ibrahim, 2010).

According to Wu et al. (2012), knowledge sharing is the exchange of knowledge, experience, and information between individuals in an organization. It can also be defined as the process of tacit and explicit communication between individuals. Organizations that apply knowledge sharing are superior and competitive. Therefore, it is the essence of knowledge management.

Several factors influence the knowledge sharing process, such as individual, organizational and technological factors (Wu et al., 2012). The individual factors are related to individual attitudes, beliefs, and feelings, while organizational factor is closely related to the working environment. Technological factor is related to the supporting equipment for the creation of the knowledge sharing process.

Previous studies carried out by Noor & Salim (2011) and Yusof & Ismail (2010) focused on individual factor as a factor influencing knowledge sharing. In addition, several other studies have also tried to determine other factors that influence knowledge sharing, such as organizational factors (Kuzu and Özilhan, 2015; Wu et al., 2012). Therefore, this study analyzes these three factors and determines those that are included in the individual, organizational and technological aspects with a significant effect on increasing knowledge sharing behavior.

The framework in this study is as follows:

Wu et al. (2012) stated that the numerous factors influencing the knowledge sharing process are divided into individual, organizational, and technological factors. This is in line with the research carried out by Noor and Salim (2011), which stated that individual factors consist of awareness, altruism, and personality, organizational factors include trust among employees, social networks, organization rewards, office layouts, and work processes, while technological factors include IT application usage, end-user focus, and ICT Infrastructure. However, research carried out by Kanaan et al. (2013) stated that individual factors consist of altruism and self-efficacy, organizational factors include organization rewards and top management supports, while technological factor is only IT application usage.

In this study, the factors proposed to measure individual factors are awareness, altruism, and knowledge self-Organizational factors efficacy. are organizational rewards and top management support, while technology factors are IT application usage and enduser focus. The following is an explanation of each factor.

a. *Awareness.* This is associated with the importance of sharing knowledge with individuals in order to make work easier (Noor and Salim, 2011; Yusof and Ismail, 2010).

b. *Altruism*. Altruism is a situation where individuals feel happy to help others. This motivates them to volunteer in providing knowledge to others (Kanaan et al., 2013; Yusof and Ismail, 2010).

c. *Knowledge Self efficacy*. It is an individual condition with the belief that knowledge can solve problems at work.

d. Organizational rewards. Organizational reward is a condition in which an organization forms the behavior of its employees by providing rewards, such as promotions, bonuses, etc (Kuzu and Özilhan, 2015; Wu et al., 2012).

e. *Top management supports*. It is a situation where a culture of knowledge sharing is supported by top management (Kanaan et al., 2013).

f. *IT Application usage*. IT application usage is a situation where information technology increases the speed of searching and retrieving data to support knowledge for easy completion of work.

g. *End-user focus*. It encourages individuals to use information technology.

Based on the explanation above, the framework in this study is shown in Figure 1.





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METHODS

This is a survey and explanatory research that determines individual, organizational, and technological factors on knowledge sharing behavior. Data were collected by distributing closed questionnaires containing statements on the factors being studied to 86 purposively selected employees in the public sector in Jambi City. The data were further processed using the help of SPSS Ver.22.

RESULTS AND DISCUSSION

The following table is a statistical descriptive test result on knowledge sharing factor analyzed using the mean value.

Table 1. Statistical Descriptive TestResults on Knowledge Sharing Factor

Mean	Std. Dev
4,493	1,056
4,668	1,275
4,265	1,366
4,662	1,343
4,319	1,167
4,887	1,021
4,329	1,097
	4,493 4,668 4,265 4,662 4,319 4,887

Sources: processed by researchers, 2020

Table 1 shows that the largest and lowest mean results are IT application usage and knowledge self-efficacy with values of 4.887 and 4.265.

Table 2. Correlational Matrix Test Resultson Knowledge Sharing Factors

Factor	Correlation	Sig	
Awareness	0,023	< 0,05	
Altruism	0,017	< 0,05	
Knowledge Self efficacy	0,061	> 0,05	
Organizational rewards	0,044	< 0,05	
Top management supports	0,083	> 0,05	
IT Application usage	0,027	< 0,05	
End user focus	0,035	< 0,05	
Sources: processed by researchers, 2020			

Sources: processed by researchers, 2020

The correlational matrix test results show several factors with an insignificant effect on knowledge sharing, such as self-efficacy and top management support, with correlation values of 0.061 and 0.083 (greater than 0.05).

Table 2. Anti-Image Matrices Test Resulton Knowledge Sharing Factor

Factor	MSA
Awareness	0,815
Altruism	0,875
Knowledge Self efficacy	0,723
Organizational rewards	0,854
Top management	0,796
supports	
IT Application usage	0,913
End-user focus	0,804
Sources: processed by researchers	2020

Sources: processed by researchers, 2020

The anti-image matrices table shows that the factor that greatly influences knowledge sharing is IT application usage. This is the existence of information technology that supports the speed of information and knowledge retrieval with a Measurement of Sampling Adequacy (MSA) value of 0.913, while the smallest influencing factor is self-efficacy.

The factor analysis results show that several factors tend to be low and do not have a significant effect on knowledge sharing, such as self-efficacy. This is because of the individual or employee believes that the knowledge and information they possess is more useful than others. Furthermore, this analysis is influenced by several factors, such as the country's culture or the organization's environment. Another factor that tends to be low is top management supports. Meanwhile, other factors such as awareness, altruism, organizational rewards, IT application usage, and enduser focus have a significant effect on knowledge sharing. The continuous increase in the availability of these factors leads to a rise in knowledge sharing behavior among public sector employees in Jambi. This research is in line with the previous studies carried out by Holste & Fields (2010), Ismail & Yusof (2010), Kanaan et al. (2013), and Noor & Salim (2011).

This study proved that not all factors included in the individual, organizational, or technological categories had a significant effect on knowledge sharing behavior. However, several factors tend to be low and do not affect the knowledge sharing behavior process. This is because they are also influenced by other factors, such as the community's culture, as well as the internal and external environment of the organization.

CONCLUSION

In conclusion, individual, organizational and technological factors such as awareness, altruism. organizational rewards, and IT application usage have a significant effect on knowledge sharing. The more these factors increase, the greater the knowledge shared among public sector employees in Jambi. Furthermore, this study also found that knowledge selfefficacy and top management support tend to be low and had no significant effect on knowledge sharing. Therefore, further research is recommended to determine the cultural and organizational environmental factors.

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