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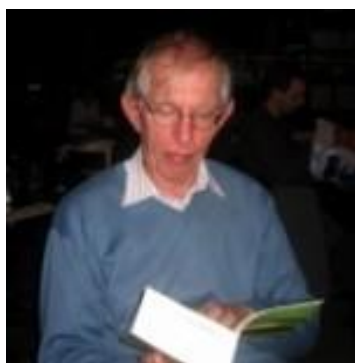
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Atlantis Press was founded in 2006 by Zeger Karssen. Zeger graduated in both philosophy and Artificial Intelligence at the University of Amsterdam. Since then he has gained extended experience in scientific research, publishing and internet-technology. Earlier occupations include work as senior researcher in Artificial Intelligence for the University of Amsterdam and for a private lab in Paris. Since 2000, he has worked as scientific publisher for a major publishing house (Elsevier) where he created 4 new scientific journals and 2 major book series, and managed a portfolio of 15 internationally renowned journals in the field of Artificial Intelligence. Zeger also regularly works as advisor to the European Commission regarding scientific publishing and the creation of electronic content in general. Zeger manages Atlantis Press from its offices in Paris, France and Amsterdam, the Netherlands. Zeger also operates as publisher in the field of artificial intelligence.



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Arjen Sevenster studied mathematics at Leiden University, the Netherlands. After a five-year stay in Japan, Arjen joined Elsevier, where for some two decades he has been responsible for the mathematics and computer science programme, including Elsevier's world-class book series in mathematics. Arjen retired as a publisher at Elsevier in 2006 and is now working as a freelance publisher for Atlantis Press where he is in charge of the mathematics and theoretical computer science book programmes.



Diane Wang

Diane Wang has many years of experience in STM publishing, especially in the open access area in China. As the first employee in Asia of BioMed Central (BMC), the leading Open Access Publisher, she built BMC's China operation from scratch and facilitated successful business developments for BMC in China. She managed BMC's commercial team which broadly covered marketing, public relations, institutional sales and author services. Her role with BMC expanded to include SpringerOpen, and later to Springer Nature's entire Open Access portfolio with over 500 OA journals. Diane is now managing the China operations of Atlantis Press.



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Christian Ngô studied at the “Ecole normale supérieure de Saint Cloud”. He obtained the “aggregation in chemistry” in 1971 and received a doctorate in nuclear physics in 1975. After nearly 20 years in fundamental research at the Orsay University and at the CEA in the field of heavy ion nuclear physics, and approximately 200 publications, he moved to applied physics in 1991. Over the next five years he was appointed as the manager of a laboratory at the CEA/ LETI and took 3 patents before becoming deputy director of strategy and evaluation of the CEA in charge of scientific evaluation. Since 2000, he became successively advisor of the CEO of the CEA, scientific director of the direction of technological research and the CEA delegate director. Between 2003 and 2007 he served as executive general manager of ECRIN and, until 2008, as scientific director of the high commissioner of atomic energy. Christian Ngô is also the author or co-author of a dozen books in different fields of physics. In the last decade he gave about two hundred conferences on energy to a wide audience, and participated from time to time on radio and television programs on energy and environment. He has also been involved as an expert in several works of the OPECST (Parliamentary Office of Science and Technology Options). Christian's editorial responsibilities include the fields of nanotechnology, energy and material sciences.



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Laura Malone holds degrees in English Language, Literature and Music from the University of New York, and in Computer Languages & Programming, from the Chubb Insititue. She has worked as a Scientific Editor, Copy Writer, English Language Teacher and Tutor, and operated a successful travel company in Europe. She now lives in Paris, France, and is part of the production team at Atlantis Press.



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After a degree in Art History, Debora graduated in Sciences and Technologies of Information and Communication at the Free University of Brussels. Since then she has been working as a freelance translator, copy editor and IT advisor. In 2017, she has founded a small publishing company specialized in artist books. Since 2016, she has been working for Atlantis Press where she manages the production of proceedings and books. She also takes care of indexation and archiving and sets up communication strategies for new projects. Recently, she has begun to operate as a journal publisher.

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Prof. Charles Chui

Charles K. Chui, Ph.D. Wisconsin-Madison, is Research Professor of Mathematics of Hong Kong Baptist University and Consulting Professor of Statistics of Stanford University. He is also Curators' Professor Emeritus of the University of Missouri and Distinguished Professor Emeritus of Texas A&M University, where he had joint appointments in 4 departments and two colleges, namely: Department of Mathematics and Department of Statistics (of the College of Science) and Department of Electrical Engineering and Department of Computer Science (of College of Engineering). Charles' current research interest is in the discipline of Computational and Applied Mathematics, with focus on real-world data processing, visualization, and understanding, for such big data areas as: blind source decomposition and feature extractions of time series, medical images, surveillance videos, and highdimensional complex data on certain unknown manifolds of much lower (manifold) dimensions. After spending over two decades of dedicated research in Function Theory, Approximation Theory, Harmonic Analysis, and Computational Mathematics, Charles turned his attention to the applications of mathematics, particularly in solving real-world problems, first by working on medical imaging in collaboration with a team of radiologists and Physicists in MD Anderson Cancer Center (in Houston, Texas), followed by founding his first company in the Silicon Valley in California, based on his expertise in image compression and manipulation.



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Frank van Harmelen (1960) is a professor in Knowledge Representation & Reasoning in the AI department (Faculty of Science) at the Vrije Universiteit Amsterdam. After studying mathematics and computer science in Amsterdam, he moved to the Department of AI in Edinburgh, where he was awarded a PhD in 1989 for his research on meta-level reasoning. While in Edinburgh, he worked with Dr. Peter Jackson on Socrates, a logic-based toolkit for expert systems, and with Prof. Alan Bundy on proof planning for inductive theorem proving. After his PhD research, he moved back to Amsterdam where he worked from 1990 to 1995 in the SWI Department under Prof. Wielinga. He was involved in the REFLECT project on the use of reflection in expert systems, and in the KADS project, where he contributed to the development of the (ML)² language for formally specifying Knowledge-Based Systems. In 1995 he joined the AI research group at the Vrije Universiteit Amsterdam, where he was appointed professor in 2002, and is currently leading the Knowledge Representation and Reasoning Group.



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Peter Hendriks is a senior publishing professional with a broad experience in professional as well as scientific publishing companies. After joining Wolters Kluwer in 1988, Peter worked for over 10 years for financial professionals. In 2000 he joined Kluwer Academic Publishers where he was appointed CEO & President in 2001. KAP was bought by private equity investors and merged with Springer in 2003. Peter was a member of the Springer executive board for more than 10 years. He left Springer Nature in 2016 and is now active as a independent advisor and investor in publishing.



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The Influence Of Personal Factors, Organizational Factors, And Technological Factors In The Use Of CIM Toward Employees Knowledge Sharing In PT. Jalan Tol Lingkar Luar Jakarta (Pt. JLJ)

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Abstract - This study aimed to acknowledge how big is the personal, organization, and technological factors, and moreover to acknowledge how deep is the effect influenced by personal, organization, and technological factors in the use of CIM towards employee's knowledge sharing in PT. Jalan Tol Lingkar Luar Jakarta. The study involved independent and dependent variables. The independent variables used in this study were personal factor, organization factor, and technological factor. While the dependent variables used was knowledge sharing. Research method used in this study was quantitative research and the type of this study were descriptive and causal study. Data analysis technique used were descriptive analysis and multiple linear regression. The descriptive analysis showed that PT. JLJ have big factors on personal, organization, and technological factors, proven by the average point on each factors by 72.24%, 74.77%, 72.98% and also have a high point on sharing knowledge by average 77.11%. Simultaneously, the personal, organization, and technological factors influenced significantly towards knowledge sharing by 45.3%. Partially, only organization factor which have influence towards knowledge sharing by 30.6%.

Keywords: *Personal factor, organization factor, technological factor, knowledge sharing*

I. INTRODUCTION

A. Background

Knowledges are the most useful resources in business today [1]. Kikoski [2] believed that in 21st century, organizational success is depend on knowledges the have and on how they use their knowledges. According to Jennex [2], knowledge management became an approach which enabled organizations to managed information and knowledge in better ways. With knowledge management, organizations would run efficiently, be able to give better service towards customers, more competitive, and always responsive towards changes. The point of the successfulness on knowledge management application is knowledge sharing or knowledge transfer [3;1]. Knowledge sharing, either it's the spontaneous, structured, or

the unstructured one, was a vital thing towards companies' successfulness. According to Rodin et al.[3], the implementation of knowledge management could not be separated from knowledge sharing, where the will of sharing knowledges between individuals were needed and then from this individuals' knowledges would be stored as organization's knowledges. Individualism culture have to be left, information owned by individuals have to be shared to the colleagues in order to achieve organizational development. So that by the existence of knowledges sharing, new ideas are hoped to be created, especially in selling value, product's quality and performance.

With the development of information technology such as the existence of web 2.0, this knowledge sharing activities were not only happened directly (face-to-face) but also could be done through internet usage [4]. Moreover, web 2.0 was said to be a website which enabled the internet users to actively and directly participate in content creating or giving feedbacks from the writing posted by other people. One of the web 2.0 technology based media, which today has already have a lot of users, was weblog (commonly known as blog). It is a web which enabled the users to share their opinions, information, skills, experiences, and also giving feedbacks towards other people's writing. Looking at the technology development happened, PT. JLJ generated a website which facilitating its employees in creating contents or giving feedbacks towards other's writing named Corporate Internal Media or commonly known as CIM.

Wahlross [5] stated that there are few main factors which could affect someone to use weblog as a knowledges sharing media, which are the personal, organizational, and technological factors. Lin [5] have summarized the most unique aspects from those three factors. Based on individual or personal factor, most experts highlighted the importance of benefits expected, faith and experiences in utilizing the

technology, for example, employees were motivated to share their knowledges when they thought it was worth the efforts. Organizational factor was based on management's role and organizational culture. Openness and organizational culture which were supported by the managers would make employees willing to share their knowledges. Next, technological factor was including the organizational Information and Communication Technology (ICT), such as intranet procurement or any other online devices.

With all efforts done by PT. JLJ to motivate its employee in using CIM to share their knowledges, and also because there is no research from PT. JLJ towards CIM as knowledge sharing media, the writer want to know on how the influence of personal, organizational, and technological factors towards CIM for knowledge sharing, this study is titled **“THE INFLUENCE OF PERSONAL FACTORS, ORGANIZATIONAL FACTORS, AND TECHNOLOGICAL FACTORS IN THE USE OF CIM TOWARD EMPLOYEES KNOWLEDGE SHARING”**.

B. Objectives

According with the problems' definition, so the study about **“THE INFLUENCE OF PERSONAL FACTORS, ORGANIZATIONAL FACTORS, AND TECHNOLOGICAL FACTORS IN THE USE OF CIM TOWARD EMPLOYEES KNOWLEDGE SHARING”** is aiming to:

- 1) *Define Personal Factor towards CIM usage for Knowledge Sharing.*
- 2) *Define Organizational Factor towards CIM usage for Knowledge Sharing.*
- 3) *Define Technological Factor towards CIM usage for Knowledge Sharing.*
- 4) *Define Knowledge Sharing of PT. JLJ's employee by using CIM.*
- 5) *Define the influence of personal, organizational, and technological factors in CIM usage towards Knowledge Sharing.*

II. LITERATURE STUDY

A. Knowledge

Drucker [6] defined knowledge as information which change something or someone. It happened when the information become basic before taking actions, or when the information enabled someone or institutions to take different actions, more effective than the actions before. Davidson and Voss [6] stated that, in fact, managing knowledge is a way for organizations to manage their employees and how long they spent time to use information technology. According Rusli [7] knowledge is information that is contextual, relevant, and applicable, or information that can be used. Islam and Khan [8] define knowledge is the product of information. When information is analyzed, processed and placed in context, it becomes knowledge. Alavi and Leidner [8] define This knowledge as information possessed in the mind of

individuals. Drucker [9] states knowledge has been characterized as the “only meaningful resource”.

B. Knowledge Sharing

Tobing [6] explained that knowledge sharing / transfer is a wide opportunities' creation to learn towards each organization members so it could improve its competencies independently. According to Lin [1] knowledge sharing culture could be defined as social interaction which involved knowledge, experiences and skills exchange between employees for each departments in organization. Hoof and Ridder [1] defined various knowledge as individual process in exchanging their knowledge (tacit and explicit) and integrated to create new knowledges. According to Sharrat & Ushoro [8] the term ‘Knowledge Sharing (KS)’ implied giving and accepting information which is framed in context with knowledges regarding sources. Davenport and Prusak [10] define Sharing knowledge is one of the processes in KM.

Hooff and Ridder [4] defined that “Knowledge Sharing is a process where each individuals exchanging their knowledges (Tacit knowledge and explicit knowledge)”. This definition according to Hooff and Ridder implied that knowledge sharing behavior is consist of bringing (donating knowledge), and getting (collecting knowledge). Donating knowledge is a behavior of communicating intellectual capital owned to others. Collecting knowledge is a behavior to consult with other individuals regarding the intellectual capital owned by others.

C. Factors Which Influenced Someone in Web 2.0 Usage for KS (Knowledge Sharing)

Wahlross [5] stated that there are few main factors which could influence someone to use blog as media for knowledge sharing. The few factors stated are personal factor, organizational factor, and technological factor.

1) Personal Factor

Personal factors are the factors consist of benefit expected and cost, trust issues, experience and skill with technology, and understanding of responsibilities. Benefit as a key factor including personal interest and collective interest. Personal interest are included, for example, daily work facilitation and collective interest refer to usage or contribution towards work environment. On the other side, cost is referring to time and negative effects towards professional's image. Trust is referring to mistrust on social media contents as trusted sources, doubting on others misusing the collective information and doubting on whether or not the information is right or wrong.

2) Organizational Factor

Organizational factor is consist of managerial implication and organizational culture. Managerial implication including responsibilities in giving appropriate training, giving positive feedbacks appreciating contribution, participation, and the existence of guides on how to use social media tools. Organizational culture focusing on feedbacks and appreciating colleagues' contributions, participations, and collaboration

level in and on every business units. Organizational hierarchy level is measured in term of employees' dependency in decision making and dependency in distributing time for new, different works.

3) Technological Factor

Technological factor is referring to social media tools used. The aspects we should be focusing on the technological factor is the ease of use from the social media used.

III. RESEARCH METHODOLOGY

Research methodology used in this study is a quantitative method with the type of method are descriptive and causal. Data analysis technique used were descriptive analysis and multiple linear regression. Descriptive analysis technique used to answer problems number 1, 2, 3, and 4, where to define how strong the personal, organizational, and technological factors, and also knowledge sharing in PT. JLJ. The multiple linear regression were used to define how big is the influence of personal, organizational, and technological factors in CIM usage towards knowledge sharing.

IV. RESULT AND DISCUSSION

A. Responden Characteristic

Respondents characteristic based on gender were dominated by males by 80% and females by 20%. Based on age were dominated by respondents with age ≤ 24 years old by 62%. Based on education, it were dominated by respondents with high school diploma by 61%. Based on the working period, it was dominated by respondents which already worked for 1 – 3 years by 64%.

B. Simultaneous and Partial Hypothesis Test

According to the calculation of hypothesis test, it could be concluded as following.

TABLE I. COEFFICIENT DETERMINATION RESULT

Model Summary^b

Model	R	R Square	Adjusted R Square	Std. Error of the Estimate
1	.673 ^a	.453	.435	.42872

a. Predictors: (Constant), Faktor_Teknologi,

Faktor_Personal, Faktor_Organisasi

b. Dependent Variable: Knowledge_Sharing

According to the table 4.1, it could be seen that the R square was 0.453 = 45.30%. This value showed that the influence of personal factor, organizational factor, and technological factor towards knowledge sharing variable was 45.30% and the rest, 54.70% were influenced by other variables outside this study.

TABLE II. T TEST RESULT

Model	Coefficients ^a			t	Sig.
	Unstandardized Coefficients		Standardized Coefficients		
	B	Std. Error	Beta		
(Constant)	.963	.273		3,524	.001
Faktor_Personal	.145	.100	.138	1,446	.151
Faktor_Organisasi	.434	.093	.475	4,676	.000
Faktor_Teknologi	.143	.083	.163	1,719	.089

a. Dependent Variable: Knowledge_Sharing

According to the table 4.2 above, it could be concluded that t value for each personal, organizational, and technological factor variables were 1.446, 4.676, and 1.719. Organizational factor were valued more than t tables, which is 1.985. It means that only organizational factor which partially gave significant influence towards knowledge sharing. Organizational factor influencing knowledge sharing by 30.6%. From the result, it could be concluded that the linear regression model for this study were $Y=0,963 + 0,145X_1 + 0,434X_2 + 0,143X_3$. This formula explained that if the employees did not have personal, organizational, and technological factor, then the knowledge sharing would be valued 0.936. When personal factor increased, then the knowledge sharing would increase too by 0.145 point. When organizational factor increased, then the knowledge sharing would increase too by 0.434 point. And also, when technological factor increased, then the knowledge sharing would increase too by 0.143 point.

Personal factor (X1), organizational factor (X2), and technological factor (X3) have significant influences simultaneously towards knowledge sharing by 0.453 or 45.3%, while the rest were influenced by other factors outside the variables studied by 0.547 or 54.7%. Partially, only organizational factor (X2) which significantly influencing the knowledge sharing, while personal factor (X1) and technological factor (X3) were not significantly influencing the knowledge sharing. The percentage of personal factor influence towards knowledge sharing was 30.6%.

V. CONCLUSION

According to the test result, the conclusion for this study are following:

- 1) Personal factor on CIM usage towards PT. JLJ's employees was included on high category by 74.24%
- 2) Organizational factor on CIM usage towards PT. JLJ's employees was included on high category by 74.77%
- 3) Technological factor on CIM usage towards PT. JLJ's employees was included on high category by 72.98%
- 4) Knowledge Sharing on CIM usage towards PT. JLJ's employees was included on high category by 77.11%
- 5) According to the simultaneous and partial calculation, Personal factor (X1), organizational factor (X2), and

technological factor (X3) on CIM usage towards knowledge sharing have significant influences, which would be explained as followed:

- Personal factor (X1), organizational factor (X2), and technological factor (X3) have simultaneous significant influences towards knowledge sharing by 0.453 or 45.3% while the rest were influenced by other factors outside this study by 0.547 or 54.7%.
- Partially, only organizational factor (X2) which influenced significantly towards knowledge sharing while personal factor (X1) and technological factor (X3) did not significantly influenced the knowledge sharing. The percentage of personal factor influence towards knowledge sharing was 30.6%

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