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# A proposed model of the Influence of Personality Trait Dimensions and Trust on Knowledge Sharing

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**Abstract:** To enhance the understanding of the important role of individual factors knowledge the influencing sharing organizations, this study aims at proposing the personality factors that could influence individual's knowledge sharing behavior. Based on the theoretical support derived from the big five personality theory and the social exchange theory, we proposed that the five personality traits dimension namely agreeableness, openness, neuroticism, extraversion and conscientiousness as well as would influence individuals' knowledge sharing behavior. To empirically validate our proposed research model, we suggest that the structural equation modeling using the Amos software could be utilized by future studies that may intend to investigate this proposed research model. Future researchers could improve this proposed model in different cultural context and may also add other individual factors to suite their study objectives.

#### I. INTRODUCTION

In recent years, the concept of knowledge in organizations has become increasingly popular in the literature (Alvesson and Karreman, 2001), with knowledge being acknowledged as a crucial resource for organizational performance and competitive advantage (Wang and Noe, 2010), critical to the long-term sustainability and organizational (Nonaka and Takeuchi, Knowledge as a valuable resource is embodied in individual employees and embedded in organization thus could enable organizations to innovate and compete (Bollinger and Smith, 2001). Individual employees possess a unique

set of knowledge gotten from prior experiences and sources accumulated over the years. This uniqueness of knowledge makes it difficult to imitate and substitute making it to be the most valuable organizational resource (Grant, 1996; Zack, 1999).

In the literature, many studies have examined the influence of individual factors (such as trust, self- efficacy, altruism and so on) on knowledge sharing but studies examining the impact of personality characteristics knowledge sharing have not extensively clarify how these personality characteristics could influence individuals' willingness to share knowledge and their actual knowledge sharing behaviour. Therefore, this study proposes that personality factors could influence people's willingness to share knowledge and their actual knowledge sharing behavior. This study attempt to enhance the understanding of individual factors toward knowledge sharing in the organizations based on the theoretical support derived from the big five personality theory. The study is organized into five sections; the first describes the conceptual issues of knowledge, knowledge management and knowledge sharing, the second section is focused on literature review on related previous study while the rest section is devoted to the research model, proposed methodology and conclusion.

#### II. DEFINITION OF CONCEPTS

#### A. Knowledge

Bratianu and Orzea (2010), believes that knowledge does not have a universal definition. Different researchers define the concept from different perspectives and angles, with several theories to explain it. For example, from the



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science field, Nonaka and Takeuchi (1995) introduced theories to conceptual knowledge. Furthermore, Davenport and Prusak (1998) knowledge value framed as experience, expert insights and contextual information which gives a road map for assessing new information and experience. Tiwana (2000) views knowledge as actionable information available in the exact format, at the exact time, and at the exact place for decision making. In addition, Awad and Ghaziri (2004) offers a definition of knowledge, which is the understanding acquired through experiences or studies; it is "know-how" or a familiarity with how to do something that enables a person to perform a specialized task. It may also be an accumulation of facts, procedural rules or experiences.

Based on the synthesis of these definitions provided by different scholars, we conclude that knowledge could be seen as awareness or understanding of someone or something, such as facts, information, descriptions, or skills, which is gained through experience by perceiving, discovering, education learning to act in a way that achieves the objectives and goals of the individual and organization. By gaining knowledge, individual can have a higher degree of convinced understanding of a subject, which is the ability to make use a piece of information for a particular purpose at the appropriate time. Consequently, knowledge has been accepted as an important resource in an organization which is very unique and comes in different forms.

#### B. Knowledge Management

The field of knowledge management though could be traced to the work of Polanyi, (1958) but it is not until 1990s that much recent interest in organizational knowledge has promoted the field of managing the knowledge to the organization's benefit. Knowledge management which could be simply referred to as the process of identifying and leveraging the collective knowledge in an organization to help the organization compete (Von Krogh 1998)

has now received much attention in the management literature. In general, knowledge management focuses on managing and facilitating knowledge-related activities, such as creation, capture, transformation and the use of knowledge (Lin, 2007).

The definition of knowledge management is still very much complex. Complex in the sense, that they are numerous conflicting definitions of the concept. This could probably due to the fact that the field is multidisciplinary in nature with the combination of approaches from science field, technology field, management, the business world etcetera. For the purpose of this study, we would utilize Becerra-Fernandez et al (2004) definition of knowledge management which is the process of discovering, capturing, sharing, and applying knowledge to enhance, in cost-effective fashion, the impact of knowledge on the unit's goal achieving. To compliment Becerra-Fernandez et al (2004) definition of knowledge management, introducedIpe's (2003)description knowledge management from the business work perspectives which describes knowledge management as a deliberate, systematic business optimization strategy that selects, stores, organizes, distils. packages, communicates information essential to the business of a company in a manner that improves emplovee performance and corporate competitiveness.

#### **C** Knowledge Sharing

Govindarajan (2000)Gupta and described knowledge sharing as the major process of knowledge management which involves the identification, outflow. transmission and inflow of knowledge in terms of activities of transferring or disseminating knowledge from one person, group, organization to another. Furthermore, Bartol and Srivastava (2002) defined the concept of knowledge sharing as involving the sharing of facts, ideas, suggestions and expertise with employees in order to boost organizational performance. Knowledge sharing can place unofficially in the corridors or officially in



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meetings, seminars and presentations (Birchman, 2003). Lee and Al-Hawamdeh (2002) described knowledge sharing as a deliberate act that makes knowledge reusable by other people through transfer in the organization.

Van den Hooffet al (2003) views knowledge sharing as a process where individuals exchange knowledge (tacit or explicit) and together create a new knowledge. Similarly, Rivera-Vazquez *et al.* (2009) describes knowledge sharing as a practice where individuals commonly exchange both tacit and explicit knowledge to jointly create a new knowledge. Knowledge sharing studies is well grounded in theories. In other words, many theories have been used to support knowledge sharing research. For example, based on organizational theory, knowledge is a vital resource of competitive advantage and when effectively put together, it can create or add value organization. to an Based communication theory. knowledge transferred through communications from the source to the receiver (Cummings and Teng, 2003).

In sum, reviewing the literature on knowledge sharing descriptions exposes that there are many ways to understand precisely what knowledge sharing is all about. Therefore, knowledge sharing needs a process of common perspective taking where distinctive individual knowledge is exchanged, evaluated and integrated with that of others within the organization. Knowledge sharing provides the between the individual organization by transferring knowledge that resides in individuals to the organization level where it is converted into economic and competitive value for the organization (Battersby, 2003).

#### III. LITERATURE REVIEW

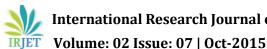
This section is devoted to synthesis some existing literature that are related to this study. A few previous studies on knowledge sharing is examined, followed by a discussion on the big five personality theory which serves as the underpinning theory for this study. Based on

the findings of the literature review, a proposed research model is suggested by this study in order to provide further research direction for future studies.

## A. Previous Studies on Knowledge Sharing

Only studies that examined knowledge sharing using the personality theory is reviewed for the purpose of this study. Gupta (2008) studied the role of personality in knowledge sharing and knowledge acquisition behaviour and found that people with high agreeableness and conscientiousness were more involved in knowledge sharing activities than people with low agreeableness and conscientiousness.

Individuals high on conscientiousness were more involved in knowledge acquisition activities individuals low than conscientiousness. Hsieh et al., (2011) explored the relationship among five factors of personality traits and innovation with the mediating role of knowledge management. Their study revealed that the big five affect organizational innovation individual and performance and it has also an impact on the management. knowledge application of Furthermore, Tehet al. (2011) studied the influence of big five personality factors on knowledge sharing behaviour and found that extraversion and neuroticism are positively related to the attitude towards knowledge sharing. Openness to experience is found to have an inverse relationship with the attitude towards knowledge sharing while subjective norm is positively related to the attitude towards knowledge sharing. Furthermore, they found that attitude towards knowledge sharing subjective norm have significantly relationship with to the intention to share knowledge, which in turn has a significant influences the knowledge sharing behaviour.



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and knowledge sharing by relating three personality traits (agreeableness, conscientious ness and openness) to knowledge sharing. They found significant relationship between the personality traits and knowledge sharing. Also, their findings offered empirical evidence of the impact of enduring individual characteristics on knowledge sharing.

Based on the review of the existing literature on personality and knowledge sharing research area, it was found that the role that personal dispositions play in individual's knowledge sharing behaviour is worth examining in depth. However, previous studies is still lacking in context. Most of the studies did not examine all the five dimensions of the big five personality theory. Also, most of the study is conducted among students. Therefore, this current study would differ in context as it set to examine all the five dimensions of the big five personality traits would provide in depth information on personality factors could influence individuals' willingness to share knowledge and their actual knowledge sharing behaviour.

## B. Theoretical Background: The Big Five Personality Theory

The elements of the big five theory of personality traits was first initiated the original work of McDougall (1932). Personality traits established set of uniqueness tendencies that determines individuals' similarities and differences in thoughts, feelings, and actions (Maddi, 1989). The "Big-Five" theory consist of five dimensions which are developed by the works of two authors Cattell and Kline, (1977) and Eyskenck (1985). These five traits are extroversion, neuroticism, agreeableness. conscientiousness and openness to experience.

Agreeableness personality dimension is denotes that individuals high in agreeableness are helpful, good natured, forgiving, generous, cheerful, courteous and cooperative (Barrick and Mount 1991). Agreeable people are warm, likable, emotionally supportive, and nurturing. In the context of workplace, agreeable

employees show higher levels of interpersonal competence and collaborate effectively when employees need to work jointly (Mount, et al. 1998). Openness dimension encompasses a wide range of characteristics such as being curious, open-minded and artistic (Thomas, 1996). According Moore and Scott Bozionelos (2004), openness consists multiplicity propensity to develop novel ideas, goals and flexibility of thoughts. People with high level of openness tend to be liberal, independent of judgment, possess easygoing attitude and like to undergo both negative and positive experiences which makes them generally more open to others in new learning new things at the workplace. Neuroticism dimension encompasses emotional displays, low self-esteem. anxiousness. depression. tension. shyness. moodiness guilt, irrationality (Benet-Martinez and John 1998; Lepine and Dyne, 2001). Neurotics are individuals characterized by high levels of rigidity, anxiety, and emotional instability with different negative moods such as anxiety, sadness and nervous tension (Benet-Martinez and John 1998). Individuals with these traits are normally having high emotional sensitive and they are easily influenced by other people. Extraversion dimension refers to a persons' tendency to engage in social activities. It encompasses a person's characteristics of been active, cheery, confident, optimistic, outgoing, and passionate (Barricket al. 2002). People who are high in extraversion are generally sociable, assertive, active. bold. energetic, adventuresome. expressive. and Conscientiousness dimension encompasses characteristics such as dependability, achievement-oriented and perseverance (Thomset al., 1996). Barrick and Mount (1991) described the characteristics of individuals with high conscientiousness. such dependable, dutiful, organized, responsible, achievement oriented and hardworking while Bozionelos (2004) further explained that conscientiousness is related with industriousness. of dutv sense and perseverance. Individuals with high conscientio usness are more focus on their duties,

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hardworking, reliable, responsible and organized (Barrick and Mount 1991).

## C. Personality trait dimensions and Knowledge Sharing

The section would examine the relationship between the personality trait dimensions which are independent variables namely agreeableness, openness, neuroticism, extraversion and conscientiousness with willingness to share knowledge and the actual knowledge sharing behaviour.

#### **Agreeableness and Knowledge Sharing**

Agreeableness personality dimension is denotes that individuals high in agreeableness are helpful, good natured, forgiving, generous, cheerful, courteous and cooperative (Barrick and Mount 1991). Knowledge sharing is described as a practice where individuals commonly exchange both tacit and explicit knowledge to jointly create a new knowledge Rivera-Vazquez et al. (2009). This study suggests that since people high agreeableness are very helpful, good natured and cooperative with others thus they could most probably participate in knowledge sharing. Their friendly nature could enable them to easily maintain close relationship with others. Previous studies have suggested that people with high agreeableness never feel hesitate to share their information, experience and best practices. Matzleret al (2008) found that agreeableness has influence on knowledge sharing. Therefore, this study suggests that people high in agreeableness are more likely to share knowledge.

**Proposition 1**: Agreeableness would have a positive influence on individuals' knowledge sharing behaviour.

#### **Openness and Knowledge Sharing**

According to Bozionelos (2004), openness encompasses a variety of interests, tendency to develop novel ideas, flexibility of thoughts, receptivity of new ideas, and inventiveness. Since openness is associated with active imagination, at tentativeness to inner feelings,

intellectual curiosity, originality, preference for variety (Costa and McCrae, 1992) thus individual with openness characteristics would most like participate in knowledge sharing. Previous studies have supported relationship. Studies conducted by Matzleret al (2008) claimed that individuals high with openness to experience are more engaged in contributing seeking knowledge. and Furthermore, Hsu et al (2007) also suggested that openness would positively influence knowledge sharing. Therefore, this study argues that individuals with high level of openness are more likely to share knowledge.

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**Proposition 2**: Openness would have a positive influence on individuals' knowledge sharing behaviour.

#### **Neuroticism and Knowledge Sharing**

Neuroticism encompasses different negative moods such as anxiety, sadness and nervous tension (Benet-Martinez and John 1998). It is likely that individuals with high in neuroticism would not interact and share knowledge with others. According to Gupta (2008) individual high in neuroticism tend to be anxious, depressed, angry, embarrassed, worried and insecure. Therefore, this study suggest that since of neuroticism will influence individual's interaction with other people; it could possibly influence their participation in knowledge sharing activities. Previous studies did not find a significant relationship between neuroticism and knowledge sharing. Studies conducted by Wang and Yang (2007) showed no significant relationship neuroticism and intention to share knowledge. Therefore, this study examine the influence of individual's neuroticism and knowledge sharing.

**Proposition 3**: Neuroticism would have a negative influence on individuals' knowledge sharing behaviour.

#### **Extraversion and Knowledge Sharing**

Extraversion is characterized by individual's tendency to be sociable, assertive, active, bold, energetic, adventuresome, and expressive (Barrick*et al.*, 2002). Thus, it could be said that individual who display high extraversion would



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participate more in knowledge sharing. have **Previous** suggested studies extraversion has a positive influence on knowledge sharing. Studies conducted by De Vrieset al., (2006) found extraversion to positively influence knowledge sharing. A recent study conducted by Wang et al., (2011) found that extrovert individuals would share their knowledge whether there is reward or no reward. A possible explanation for this finding may be that there is a relationship between extraversion and need to gain status as suggested by Barrick, et al(2005). Therefore, this study argues that extrovert individuals tend to share knowledge because of their sociable and expressive nature.

**Proposition 4**: Extraversion would have a positive influence on individuals' knowledge sharing behaviour

#### **Conscientiousness and Knowledge Sharing**

Mount (1991) described the characteristics of individuals with high conscientiousness, such as dependable, dutiful, organized, responsible, achievement oriented and hardworking. It could be argued that individuals with high conscientiousness would be more willing to participate in knowledge sharing. Previous studies have found conscientiousness to be related to knowledge sharing. Existing studies conducted by Matzleret al., (2008) as well as Wang and Yang, (2007) found a significant relationship to knowledge sharing. However, studies conducted by Cabrera et al. (2006) and Teh, et al (2007) did not a significant relationship between conscientiousness and knowledge sharing. Based on these, this study argues that individuals high

#### V. PROPOSED RESEARCH MODEL

Based on big five personality theory and the previous studies discussed, we proposed that the five personality trait dimensions namely agreeableness, openness, neuroticism, extraversion and conscientiousness would conscientiousness would more likely to share knowledge.

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**Proposition 5**: Conscientiousness would have a positive influence on individuals' knowledge sharing behaviour.

#### Trust and Knowledge Sharing

According to Jones and George (1998), trust be perceived as an expression of parties confidence between few during whatever exchange, in which it will not bring bad or risk through the action of other parties, or confidence that will not be exploited by any party. Trust could be seen as people's tendency to take risk with the intention of the other partner would not cause any harm. Knowledge sharing is described as a practice where individuals commonly exchange both tacit and explicit knowledge to jointly create a new knowledge Rivera-Vazquez et al (2009). This study suggests that individual would share their knowledge when they perceive the receiver to be honest, trustworthy, and reliable. There are lots of studies e.g. Dyer and Singh (1998) that suggested that trust building is an effective way to enhance knowledge sharing in organization. Previous studies suggested that trust would influence For example, study knowledge sharing. conducted by Kalantzisand Cope (2003), found that trust has a significant influence on knowledge sharing. Therefore, this study argues that individuals with high trust would likely participate more in knowledge sharing activities.

**Proposition 6**: Trust would have a positive influence on individuals' knowledge sharing behaviour.

influence individuals' willingness to share knowledge and their actual knowledge sharing behavior. In addition, trust is introduced from the social exchange theory and its influence on knowledge sharing would also be examined. Therefore, Figure 1 depicts the proposed research model.



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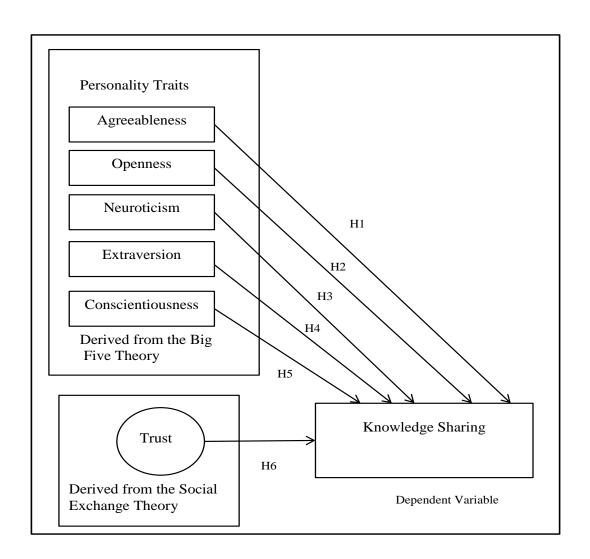


Figure 1: Proposed Research Model.

#### IV. PROPOSED METHODOLOGY

To empirically validate the six propositions stated in this study, we suggest that the quantitative method of data analysis could be employed. Therefore, a survey method through the use of a set of questionnaire is proposed to be utilized to collect data on the highlighted independent and dependent variables. The questionnaire should consist of two parts namely: part A and part B. Part A should capture the respondent's

demography such as age, gender, work experience, level of education and Position. The data collected for part A should be analyzed using descriptive statistics such as the means, standard deviation etc. Part B should consist of Likert scale questions (both for independent variables and the dependent variables). Inferential statistics should be employed to test propositions stated in this Preferably, the structural equation modeling using the Amos software would be useful to

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empirically test this model. However, scholars may decide to employ the multiple regression analysis (MRA) using the statistical package for social science (SPSS) to ascertain which among the personality trait dimensions would have more influence on individuals willingness to share knowledge and actual knowledge sharing behavior.

#### VI. CONCLUSION

The importance of knowledge management and knowledge sharing is receiving much attention in the literature. In the context of knowledge sharing, researchers have examined the influence of individual factors, organizational factors and technology factors on knowledge sharing. In the aspect of individual factors of knowledge sharing, factors such as altruism, self-efficacy, and reciprocity etcetera have received much intention in the literature. However, based on the literature review, we observed that much work is still needed to examine further the role played by characteristics knowledge personality in sharing. Therefore, we utilized the big five personality theory as the underlying theory to the five personality trait suggest that dimensions influence individuals' could willingness to share knowledge and their actual knowledge sharing behavior. A research model is then proposed with a set of propositions derived from the big five personality theory and social exchange theory. We also proposed that these propositions could empirically validate using statistical techniques. This paper would guide future researchers and enhance the understanding the influence of individual factors on knowledge sharing in the organizations, particularly the influence of personality trait dimensions and trust on individuals' knowledge sharing behavior.

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