**Conscientiousness on Affective Commitment to Change: The Mediating Role of Psychological Ownership**

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**Abstract**

Based on self-determination theory, this study identified the effect of conscientiousness on the affective commitment to change of lecturers in Indonesian universities. This study empirically examined the uniqueness of conscientiousness which is strongest and most consistently associated with various outcomes. The mediation effect of psychological ownership of lecturers was also examined. A total of 321 responses were analyzed using a two-stage structural equation modeling (SEM) approach to confirm factors and test the study hypotheses. The results showed that the level of conscientiousness had a significant effect on psychological ownership. Conscientiousness had a significant indirect effect on affective commitment to change only through the psychological ownership of the lecturers. These results support the mediating role of lecturers' psychological ownership level in explaining the influence between conscientiousness and the level of affective commitment to change for lecturers. Research limitations and implications are discussed and future directions of research are suggested

**Keywords:** psychological ownership, conscientiousness, affective commitment to change, self-determination theory

## INTRODUCTION

The rapid change have made several improvements and triggered new teaching practices and processes in education (Beatty et al., 2020). Several changes have enriched the current learning context such as the improvement of teaching technology. The need to reconsider the governance and management structures and management processes of higher education has been recognized in light of the dramatic changes in universities (Allen, 2003; Baker & Baldwin, 2015), such as new teaching approaches and technologies (Baker & Baldwin, 2015), environmental and sustainability issues (Hoover & Harder, 2015), and the requirement to engage with businesses to meet the impending demand for the labor market and skills along with the need to fulfill the market value of a degree (Vaira, 2004). However, organizational change can cause great stress and resistance to changes that have an impact on the organization and its members, such as increasing uncertainty and reducing well-being (Bordia et al., 2004).

This makes it important for universities to encourage human resource development and individual commitment to support change. Individual support is a key factor in implementing change in organizations (Herold et al., 2008; van der Voet, 2014; Wright et al., 2013). Commitment is one of the most important factors involved in individual support for change initiative (Armenakis & Bedeian, 1999). Based on a study conducted by Bouckenooghe et al. (2015) and Herscovitch and Meyer (2002), affective commitment to change is positively correlated with discretionary behavior and efforts to fight for change. As Conner and Patterson (1982) explain, the most common factor contributing to failed change project is a lack of commitment by individual.

Therefore, organizations must design several mechanism that can align employee interest and motivation with organizational interest, so this results in employee producing extra-role behavior that improve organizational performance. Individual psychological state has an impact on their behavior and performance. As suggested by Kubzansky and Druskat (1993), a sense of ownership can be an important part of the relationship between employees and the organization. Studies on how individual differences, dispositional factor, between individual can predict psychological ownership and affective commitment to change. According to Pierce et al. (2001) psychological ownership, apart from the result of situational factors, is also a factor of inherited genetic structure. As explained by Dittmar (1992), in addition to social factor, biological factor plays a role in forming individual relationships with their ownership. Consistent with previous study, individual difference variables such as personality traits can influence “how an individual pursues a relationship with object ownership and the types of objects deemed suitable” (Pierce et al., 2003).

According to Dawkins et al. (2017), there has been little attention to the influence of personality traits and other key individual difference variables. Further research is needed to investigate how personality traits and other individual differences can affect psychological ownership. The top five personalities Barrick and Mount (1991) found that one personality dimension, conscientiousness, showed consistent relationship with all job performance criteria for all occupational groups. Salgado (1997) obtained a similar result. In discussing the results of these studies, showing conscientiousness is related to performance in all occupations, Barrick and Mount (1991) suggest an analogy between conscientiousness in the personality domain and general mental abilities in the cognitive domain (Ree et al., 1994). Recent research on the personality-performance relationship has consistently found that conscientiousness is one of the best predictors of personality performance (Agarwal & Gupta, 2018; Biderman et al., 2008; LaHuis et al., 2005; Zhao et al., 2010). Apart from that, the relationship between conscientiousness, psychological ownership, and affective commitment to change is based on SDT. The trait of conscientiousness manifests itself in three main aspects: regularity (planned and organized), reliable “constancy” (responsible and careful), and achievement orientation (Judge et al., 1999).

In addition, Barrick et al. (1993) and Gellatly, 1996) link conscientiousness with motivation to set goals. According to Deci and Ryan (2000) SDT suggests adaptive design of the human organism to perform interesting activities, to train capacities, to pursue connections in social groups, and to integrate intrapsychic and interpersonal experiences into relative unity. The organic-dialectical perspective proposes that individual activities have an integrative tendency that coordinates them requiring basic nutrition, namely environmental support for competence, engagement, and autonomy. Therefore, the feeling of competence, autonomy, and the attachment of conscientiousness can encourage individuals to have growth in psychological ownership and affective commitment to change.

## LITERATURE REVIEW

According to John and Srivastava (1999), conscientiousness is defined as “socially determined impulse control that facilitates task-and-goal-directed behavior, such as thinking before acting, delaying gratification, following norms and rules, and planning, organizing, and prioritizing tasks. " Testing the potential effect of conscientiousness on affective commitment to change and work outcomes is necessary, given that individuals who are high in this nature often include characteristics such as dependability, reliability, persistence, and achievement orientation. (Barrick & Mount, 1991). In previous studies, conscientiousness was positively correlated with multiple job performance. Reliable, persistent, achievement-oriented, and organized individuals tend to perform higher in most jobs. When viewed negatively, individuals low in conscientiousness perform lower in almost all occupations (Mount & Barrick, 1998).

Previous studies considered conscientiousness as the main work motivation variable (eg, Costa & McCrae, 1992; Gellatly, 1996) and the most consistent predictor of personality from job performance in all types of work and occupation (Agarwal & Gupta, 2018; Barrick & Mount, 1991; John & Srivastava, 1999). For example, the empirical research conducted by Zhao et al. (2010) show that conscientiousness as the personality construct is most strongly and consistently associated with these two important outcomes of "entrepreneurial intention and performance" (Zhao et al., 2010). Baum and Locke (2004) found evidence to support conscientiousness as an antecedent of entrepreneurial behavior, which in turn is sequentially related to new business growth. Research has shown that a person's reaction to the perception of a favorable or unfavorable job depend on personality factor (Cullen & Sackett, 2003; Kamdar & van Dyne, 2007).

Individuals with high conscientiousness tend to have more suitable goals. SDT recognizes that differences in individual dispositions exist in terms of strength of need (Gagné & Deci, 2005). People who are high in conscientiousness will have self-confidence, discipline, order, and planning, while people who are low in conscientiousness will have insecurity in their ability to control their behavior, are spontaneous, easily distracted, and tend to procrastinate. nunda (Costa & McCrae, 1992). Therefore, individuals who have high conscientiousness will be involved in a job. These individuals are intrinsically motivated, enthusiastic about their work and bring more energy to the work than individuals without conscientiousness (Kim et al., 2009). Highly-conscious individuals tend to have more goals that are in line with goals and are intrinsically motivated to pursue their goals, thus triggering an individual's affective commitment to change. Therefore, the researcher proposes the hypothesis that conscientiousness has a positive effect on affective commitment to change. Hypothesis 1: Conscientiousness has a positive effect on affective commitment to change.

The potential effect of conscientiousness on affective commitment to change through the mediating role of psychological ownership is recommended, given that individuals who are high in this trait often include characteristics such as persistence, reliability, persistence, and achievement orientation (Barrick & Mount, 1991). Conscientious individuals tend to become very involved in their work (Organ & Lingl, 1995). Increased work involvement usually leads to increased psychological ownership (Han et al., 2010) and commitment to change (Rogiest et al., 2015). Hoyle (2010) argues that conscientiousness is an important antecedent to employee altruistic spirit, which is an important determinant of extra-role behavior (i.e., affective commitment to change). According to Organ and Lingl (1995), conscientiousness is associated with a greater likelihood of obtaining satisfying employee benefits, both formal (e.g., salary, promotion) and informal (e.g., recognition, respect, and personal achievement). Thus, these things can encourage psychological ownership because individuals who have conscientiousness substantially invest in their work, which can generate a feeling of ownership.

McCrae and Löckenhoff (2010) suggest that people who have high conscientiousness tend to set more explicit and more challenging goals. Because setting explicit and challenging goals is associated with achieving goals, and because goal attainment increases self-efficacy beliefs, people with higher awareness are more likely to develop strong self-efficacy beliefs more easily than people lower in this trait. Therefore, individuals who are high in conscientiousness tend to have psychological ownership as a mechanism that underlies the relationship of conscientiousness and affective commitment to change because they are more organized, plan-oriented, focused, not careless, not easily distracted from their duties, and reliable (Costa & McCrae, 1992). Individual has a need for psychological ownership because of their innate motives for efficacy and effect, self-identity, and having a place to live. Pierce et al. (2003) said that there will be individual differences in this process. Individuals will differ in terms of motive power, both across individuals and individuals across time. This will result in the possible development of feelings of ownership among individuals. Psychological ownership reflects a sense of responsibility for objects. Parker et al. (1997) suggested that individuals have a stronger sense of ownership when they have a perceived concern and responsibility towards the target. Psychological ownership positively affects attitude and behavior performance (Pierce et al., 1991). Psychological ownership causes proactive behavior that aims to assume responsibility for, protect, and increase ownership targets (Pierce et al., 2003). In addition, previous research has also examined the relationship between organization and psychological ownership, and other outcomes such as burnout (Kaur et al., 2013), knowledge sharing (Han et al., 2010; Peng & Pierce, 2015), owner's strategic behavior (Ikävalko et al., 2010), and factors in volunteering intention (Ainsworth, 2020).

Based on SDT, individuals who have high conscientiousness feel competent if they get the opportunity to express their competence (Ryan & Deci, 2002). The need for attachment shows caring and feelings of being cared for by others, seeking a close relationship with wanting to join a social group (Deci & Ryan, 2000). Thus, psychological ownership is much more likely to be influenced by conscientiousness, so that the individual develops a positive attitude reaction and affective commitment to change. When individuals feel engaged in work, they tend to create greater opportunities for themselves to act in a way that is consistent with their personality and reinforces the basic disposition of affective commitment to change. Therefore, psychological ownership is thought to help strengthen the effect of the conscientiousness relationship on affective commitment to change through psychological ownership. Therefore, the researcher proposes the hypothesis that psychological ownership has a mediating effect on the relationship between conscientiousness and affective commitment to change. Hypothesis 2: Psychological ownership mediates the effect of conscientiousness on affective commitment to change.

## METHODOLOGY

The population of this study is all lecturers who work at universities in Indonesia because this is relevant to the context of changes that have occurred in the learning process. In order to select the appropriate context for this study, an internet search was carried out, because information about the majority of recurring changes in organizations is disseminated either through the internet, newspapers or television coverage (Cunningham, 2006). Gornitzka (1999) and Allen (2003) suggest that the uniqueness of governance, professional autonomy and traditions of academic freedom in universities must be reflected in the process of change. This survey was sent to all lecturers working in tertiary institutions. Overall, 321 respondents have participated. Education sector organizations (i.e., universities) have been chosen as the context for this research. Gornitzka (1999) and Allen (2003) suggest that the uniqueness of governance, professional autonomy and traditions of academic freedom in universities must be reflected in the process of change. These changes apply to lecturers who responded to this research survey. This limits the sample of this study to 321 respondents, 300 of whom gave valid responses to all items included in the analysis of this study.

Respondents were asked to rate all variables on a five-point Likert scale (1 = "strongly disagree" to 5 = "strongly agree"). Conscientiousness. According to John and Srivastava (1999), conscientiousness is defined as “socially determined impulse control that facilitates task-and-goal-directed behavior, such as thinking before acting, delaying gratification, following norms and rules, and planning, organizing, and prioritizing tasks. " The measurement of conscientiousness uses 9 statement indicators from John and Srivastava (1999). An example of an indicator is "I always get the job done to completion." Psychological ownership. Psychological ownership is defined as "the state in which an individual feels as if the target ownership or part of the target is 'theirs' (e.g., it is MINE!)" (Pierce et al., 2003). Psychological ownership measurement uses 7 indicators (van Dyne & Pierce, 2004). An example of an indicator is "I feel a very high level of personal ownership for this organization." Affective commitment to change. Commitment to change is “the power (mindset) that binds a person to actions deemed necessary for the successful implementation of a change initiative” (Herscovitch & Meyer, 2002, p. 475). Meanwhile, the affective commitment to change reflects the desire to provide support for change based on the belief in inherent benefits. Measurement of affective commitment to change uses 6 statement indicators from Herscovitch and Meyer (2002). An example of an indicator is "I believe in the value of this change".

## RESULTS AND DISCUSSIONS

## Statistical analysis was carried out in three different stages: (1) testing the measurement model then for the constructs in this research model (2) testing the hypothesis relationship. Confirmatory factor analysis (CFA) should be used to test the measurement model. CFA analysis through Amos 26 Graphics (Arbuckle, 2019) was carried out to ensure convergent and discriminant validity on all constructs. Convergent validity, validity, discriminant, and model suitability indices. To evaluate convergent validity, the researchers looked at standard estimates of the value of factor loadings, average variance extracted (AVE), and composite reliability (CR). Based on Table 1 the results show AVE and CR. Hair et al. (2014) stated that the AVE value is greater than 0.5 and CR is greater than 0.7 indicating that the convergent validity is adequate. Table 1 shows that the AVE value for each construct ranges from 0.503 to 0.56. This shows that the results have reached the required threshold, namely psychological ownership (PO: 0.503), affective commitment to change (Affcom: 0.501), and conscientiousness (Cons: 0.522). Table 1 shows that the proposed research model has met convergent validity. In particular, the CR value is close to or above the recommended minimum value of 0.70 (Anderson & Gerbing, 1988; Nunnally & Bernstein, 1994).

Table 1. Summary of the results of the measurement model analysis

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Construct | Total indicators | After deletion | CR | AVE | PO | AffCom | Cons |
| PO | 7 | 6 | 0,858 | 0,503 | **0,709** |  |  |
| AffCom | 6 | 5 | 0,832 | 0,501 | 0,655\*\*\* | **0,708** |  |
| Cons | 9 | 4 | 0,807 | 0,522 | 0,328\*\*\* | 0,444\*\*\* | **0,723** |

Source: Data processed by AMOS 26 Graphics.

Note: the diagonal (bold) line is the square root of AVE of each construct. \*\*\* The correlation value between constructs is smaller than the square root of AVE of each construct. PO = Psychological ownership; Affcom = Affective commitment to change; Cons = Conscientiousness; AVE = average variance extracted; CR = composite reliability

Furthermore, the second validity test is the discriminant validity test. Discriminant validity is a measure to test whether research constructs that are considered to be unrelated are, in fact, not related to each other (Campbell & Fiske, 1959). The results of the discriminant validity test of the study are shown in Table 1 which shows that the square root of AVE value of each construct is greater than the correlation value between each construct. The results show that the square root of AVE value for all variables is greater than the inter-construct correlation value of all variables, so the results in Table 1 show evidence of discriminant validity (Hair et al., 2014). Discriminant validity is achieved because the square root of AVE of each construct exceeds its correlation with other constructs (Fornell & Larcker, 1981). Therefore, it can be concluded that the test of each construct in this study has met the discriminant validity.

The first step before testing the hypothesis is to assess the GOF measurement model. The results of the evaluation of the GOF value of the measurement model of this study can be seen in Table 2, with the results of the χ2 value of 336.123, RMSEA of 0.055, SRMR of 0.067, CMIN / DF of 1.899, CFI of 0.947, and TLI of 0.937. According to Hair et al. (2014), the model is said to be feasible if at least two GOF indices testing models are met. Based on the overall evaluation of the GOF measurement model, it can be concluded that the proposed model has met the GOF indices for CMIN / DF, RMSEA, SRMR, CFI, TLI, so it can be said that the overall GOF measurement model in this study can be accepted with good GOF test results.

Table 2. The results of the structural model analysis

|  |  |  |
| --- | --- | --- |
| Construct | Structural Path to- (*β* & *p-value*) | |
| ***Psychological ownership*** | ***Affective commitment to change*** |
| Basic Model |  |  |
| *Conscientiousness* | 0,171\*\* | 0,265\*\*\* |
| Psychological Ownership |  | 0,487\*\*\* |
| *R*² (*R-square*) | 0,358 | 0,553 |
| Control Variable |  |  |
| Age |  | 0,191 ✝ |
| Gender |  | 0,092 ✝ |
| Years of work |  | -0,214✝ |
| Length of Work with Leaders |  | 0,039 ✝ |

Source: Data processed by AMOS 26.

Note: Significance of estimation; \*\*\* p <0.001, \*\* p <0.01, \* p <0.05. ✝ p> 0.1

Based on the results of the analysis of the data obtained using the AMOS 26 Graphics analysis tool, briefly the results of hypothesis testing are shown in Table 2. First, the hypothesis test results show that there is a positive effect between conscientiousness and affective commitment to change (β = 0.40, p <0.01), H1 is supported. SDT recognizes that differences in individual dispositions exist in terms of motivational strength (Gagné & Deci, 2005). Lecturers in tertiary institutions with high conscientiousness tend to have an active learning orientation, more appropriate goals, and be intrinsically motivated to pursue their goals, thus encouraging their affective commitment to organizational change in college. The results of this study confirm the previous research conducted by Bakker et al. (2012) found that conscientiousness in the relationship of work engagement with task performance, contextual performance, and active learning. In addition, in one comprehensive study of dispositional predictors, this study confirmed the findings of Lepine and Van Dyne (2001) that dispositional factors tend to influence voice behavior. Consistent with the predictive findings of Lepine and Van Dyne (2001), the study found voice behavior was more frequent among individuals who were high in conscientiousness. Individuals with high conscientiousness are reported to be reliable, responsible, organized, hardworking, and achievement-oriented (Barrick & Mount, 1991; Goldberg, 1990). In explaining these findings, lecturers with high conscientiousness were more willing to be involved in work on how to improve and overcome challenges. Thus, lecturers who have high conscientiousness tend to have an affective commitment to change because they tend to be involved in increasing work and meeting challenges.

Furthermore, Hypotheses 2 suggest that psychological ownership will mediate the respective relationship between conscientiousness towards affective commitment to change. Preacher and Hayes (2008) bootstrapping test was adopted to test the significance of the mediating effect of psychological ownership in the relationship between conscientiousness towards affective commitment to change. Bootstrapping is used to provide more conclusive evidence about the mediating effect of conscientiousness on affective commitment to change through psychological ownership.

Table 3. Mediation test results

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Mediation Path | *Estimate (ab)* | BC 95% CI | | *P-Value* |  |
| ***Lower*** | ***Upper*** | ***Standardized Estimate*** |
| Cons --> PO --> Affcom | 0,137 | 0,059 | 0,26 | 0,008 | 0,082\*\* |

Source: Data processed by AMOS 26 Graphics.

Information: ab = estimated mediation effect, SE = standard error, BC = bias corrected, CI = confidence interval, PO = Psychological ownership, Affcom = Affective commitment to change, Cons = Conscientiousness.

The results provide support for psychological ownership which acts as a mediator between each conscientiousness towards affective commitment to change. Table 3 Bias corrected confidence intervals for this indirect effect do not contain zero values. These results indicate that psychological Ownership mediates the effect of conscientiousness on affective commitment to change (ab = 0.137, p = 0.008 \*\*, SE = 0.061, with a CI of 95% [0.059, 0.26]), H2 is supported. Hypothesis 2 also shows that there is a diminishing effect of the independent variable on the dependent variable after adding the mediating variable. The results of the mediation hypothesis test using the bootstrapping approach showed that psychological ownership was statistically significant in mediating the relationship between conscientiousness and affective commitment to change (ab = 0.137, p = 0.008 \*\*, SE = 0.061, with a CI of 95% [0.059, 0.26]). Since 0 is not included in the range of confidence intervals, it can be concluded that the effect of mediation is significant (Preacher & Hayes, 2008), H2 is supported.

Based on SDT, the approach is to identify a person's motivation and personality to take an action (Deci & Ryan, 2000). Individuals with high conscientiousness will have a need for autonomy, competence, and attachment. This study confirms the research conducted by Dawkins et al. (2017) that there is a potential influence on personality traits and individual difference variables. In addition, this is consistent with Pierce et al. (2003) regarding the key individual difference variables that can affect psychological ownership. This study adds to a small number of studies examining individual differences (i.e., conscientiousness) in influencing psychological ownership and work outcomes. This study proves that conscientiousness can encourage psychological ownership of lecturers in tertiary institutions because lecturers who have conscientiousness substantially invest in their work, which can generate a feeling of ownership. Individuals high in this trait often include characteristics such as dependability, reliability, persistence, and achievement orientation (Barrick & Mount, 1991). Conscientious individuals tend to become very involved in their work (Organ & Lingl, 1995). Thus, an increase in work involvement usually leads to an increase in psychological ownership, and then affects the affective commitment to change for lecturers in tertiary institutions.

## CONCLUSION

A summary of the results and conclusions is discussed, followed by practical and theoretical implications. Future research recommendations based on recognized research limitations are discussed. In general, this study aims to examine the effect of conscientiousness on affective commitment to change, which is then mediated by psychological ownership. Affective commitment is needed to ensure an individual's willingness to cooperate with others, to exert extra effort to achieve change goals, and to champion change (Herscovitch & Meyer, 2002). This study found that conscientiousness can be used in the higher education sector because this is relevant to the context of changes that occur in the learning process to produce a higher level of affective commitment to change and produce a better understanding of the mechanism-based psychological resources (ie, psychological ownership) where conscientiousness influences the affective commitment to change. This study found that conscientiousness had an influence on affective commitment to change. However, these results will greatly increase the affective commitment to change through the development and fulfillment of psychological resources (i.e., psychological ownership). This study shows the importance of SDT in explaining why high conscientiousness encourage a higher level of affective commitment to change. Individuals with conscientiousness tend to become deeply involved in their work (Organ & Lingl, 1995). Then, this increases psychological ownership which serves to explain why psychological ownership acts as a mechanism whereby conscientiousness leads to a higher affective commitment to change. The fact that conscientiousness lead to increased affective commitment to change has important implications. A higher affective commitment to change has been linked in previous research with attitudes to positive organizational change such as discretionary cooperative behavior and efforts to fight for organizational change (Bouckenooghe et al., 2015; Herscovitch & Meyer, 2002). Overall, understanding how affective commitment to change can be increased through individual conscientiousness with the fulfillment of psychological resources is very important in the success of organizational change.

In the existing literature on affective commitment to change, most of the empirical investigations focus on affective commitment to change as a result of various antecedent variables of situational factors such as leadership behavior (Hechanova et al., 2018; Mangundjaya & Giovanita, 2018; Mangundjaya, 2019; Michaelis et al., 2009; Odoardi et al., 2019; Thien, 2019; Thien & Adams, 2019; van der Voet et al., 2016) and organizational culture (Malik & Garg, 2017). As a route to a more comprehensive understanding of the dynamics in which individuals and organizations prepare for change. Thus, this study broadens the understanding of the mechanism that links internal motivational forces (conscientiousness) as fundamental determinants in influencing psychological resources and individual attitudes to change. Theoretically, this study strengthens SDT (Deci & Ryan, 2000). This study confirms how the differences between individual conscientiousness predict psychological ownership and then how this affects the affective commitment to change. This is consistent with Pierce et al. (2001, 2003) that several key individual difference variables can influence psychological ownership and then the results of individual attitudes and behavior. In response to this, this study seeks to explore the mediating role of psychological ownership in the relationship between antecedents and outcomes. This study finds support for the research model. Conscientiousness were found to be associated with affective commitment to change, and psychological ownership positively mediates and has a greater and significant effect on the influence.

For the management of university lecturers, the results of this study offer a number of important practical implications for organizational change. This study shows that the ability of lecturers to respond effectively to organizational change is determined by conscientiousness (dispositional) factors, their relationship with psychological resources, and individual perceptions of the situational and social environment in which the change occurs. Based on Dittmar (1992), this study suggests that biological and social experiences play a role in shaping the relationship between people and ownership. These empirical results have important practical applications. The finding that psychological ownership mediates the effect of the relationship between conscientiousness shows that efforts to encourage affective commitment to change must target the psychological resources of lecturers as well as management behavior in tertiary institutions. Conscientiousness has a limited effect if they are not accompanied by efforts to foster a sense of belonging, self-efficacy, and self-identity - the three components of psychological ownership of the lecturers. As an individual psychological difference variable, psychological ownership can easily be developed and improved through education and training (Pierce et al., 2001, 2003). For higher education, investing in socialization, education and training initiative, by providing individual time, space, and activities to develop psychological ownership, will foster an affective commitment to change for lecturers in higher education. Nonetheless, the findings of this study have two limitations. First, this study is based on a set of respondents using self-reported questionnaires that may lead to measurement bias. This study has indeed overcome this by ensuring the anonymity of respondents in the study, and the results of the single-factor test were poor, suggesting that the CMB in this study was not significant. However, the next research can prevent the problem of response bias in SDB, some common method bias factors can be applied, namely by adding SDB latent variables in the structural model. Second, because the research data is cross-sectional, this study cannot determine the causal relationship in this research model. The causality between conscientiousness, psychological ownership, and affective commitment to change must also be tested again in the longitudinal research design. This study realizes that this limits the conclusions of this research data. Thus, this study acknowledges that this research is only the first step. Future researchers should test these variables from time to time so that a causal relationship between these variables can be determined.

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