

Leadership in the Innovation Era: Transactional or Transformational Style?

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Abstract: The purpose of this study was to measure and compare the influence of transactional and transformational leadership on lecturer innovation capability. Data were collected by using simple random sampling to the lecturer population of private higher education in Indonesia. The number of returned and valid questionnaires was 101 samples. Data were processed by using SEM with SmartPLS 3.0. The results of the study concluded that transactional and transformational leadership had a positive and significant influence on lecturer innovation capability. This study proposed a model for improving the lecturer innovation capability of lecturers in Indonesia through enhancing leadership practice in higher education organizations. This study can open the way to improve lecturer readiness in facing the education 4.0 era.

Keywords: Education 4.0, innovation capability, transformational leadership, transactional leadership.

I. INTRODUCTION

How do lecturers understand their leaders? Do they take it as transformational or transactional leaders? How does it relate to the innovation capabilities of lecturers? Some researchers have investigated the relationship between leadership style and innovation, both in educational settings (Asbari & Novitasari, 2020; Goestjahjanti et al., 2020; Sudiyono et al., 2020), as well as in a non-educational environment (Asbari, 2020; Basuki et al., 2020; Novitasari, Kumoro, et al., 2020; Silitonga et al., 2020; Zaman et al., 2020). However, important factors are often left out in previous investigations, the lecturers' perceptions of the comparison between the two types of leadership are most widely known and practiced by organizational leaders, both educational and non-educational. The current study aims to examine the influence of transactional and transformational leadership types. As well as analyzing the ratio between the two types of leadership, especially in the world of education, namely private higher education in Indonesia.

II. LITERATURE REVIEW AND HYPOTHESIS DEVELOPMENT

A. Transactional and Transformational Leadership

Over the last decade, higher education has made fundamental changes in areas such as curriculum development, the role of students and lecturers, and learning strategy. These changes have brought about changes in the philosophy that dominate the field of educational leadership. As is Leithwood & Jantzi (2009) suggest that a form of instructional leadership is appropriate with the world of education, both in the 1980s and 1990s. However, the changes made during the 1990s could not be overcome by the function of the leader as an instructional leader. The concept of transformational leadership has gradually begun to shift the concept of instructional leadership, as the expectation of the education world for leaders to bring visionary leadership types into organizations. A mandate difficult for instructional leaders to fulfill. Leithwood & Jantzi (2009) also shows that the leader is successful in their work have used various mechanisms to motivate and activate their staff to bring about change in their higher education culture. Referring to transformational leadership, Burns in 1978 described followers and their leaders as inspiring each other to achieve "higher levels of morality and motivate justice and equality (Asbari, 2020; Asbari, Santoso, et al., 2020; Asbari & Novitasari, 2020; Basuki et al., 2020; Bernarto et al., 2020; Cahyono et al., 2020; Novitasari, Goestjahjanti, et al., 2020; Nugroho et al., 2020; Purwanto, Asbari, et al., 2019; Purwanto, Bernarto, Asbari, Mayesti Wijayanti, et al., 2020; Silitonga et al.,

2020; Singgih et al., 2020; Waruwu et al. al., 2020; Zaman et al., 2020). Whereas the transactional leadership type refers to the exchange relationship between their leaders and followers. Each of them "makes a deal" out of the expectation of meeting each other's interests and this is the leader's way of maintaining performance by satisfying the needs of followers (Asbari et al., 2020; Purwanto, Asbari, et al., 2019) indicated that transformational leadership binds leaders and followers in a collaborative process and thus contributes to the performance of the entire organization. Transactional leadership, meanwhile, does not bind leaders and followers in any way of collaboration. Therefore, this type of leadership produces a routine, uncreative but stable organizational environment. In contrast to transformational leadership which requires a responsive attitude and an innovative environment. The perception of this leadership style contains an assessment that transformational leadership is described as more beneficial than transactional leadership.

Invalidating Burns' leadership concept, Bass (1985) developed the Multifactor Leadership Questionnaire (MLQ). By performing factor analysis, Bass was able to identify three sub-factors of transformational leadership that were labeled charisma, personal consideration, and intellectual stimulation. Bass also identified two subfactors of transactional leadership that were labeled contingent reward and management by exception. According to Bass, charisma is the individual's ability to arouse followers and lead them to follow the leader's vision and mission. Personal consideration is a leader's ability to pay personal attention to followers, while intellectual stimulation the leader's ability to motivate followers to think of innovative and unusual solutions to various problems at hand. Later, Bass & Avolio (2000) added another factor, namely inspiration to describe transformational leadership. However, the ability to inspire is thought to be closely related to charisma and is therefore often seen as a constituent of the same. Leithwood and Jantzi (2000) identified six main characteristics of transformational educational leaders, namely building the vision and goals of higher education, providing intellectual stimulation, offering individualized support, symbolizing professional practices and values, demonstrating high performance expectations, and developing structures to foster participation in decisions. higher education. Contingent reward, one subfactor of transactional leadership, relating to situations in which leaders give rewards to followers for completing the agreed task. Management by exception is another subfactor that describes transactional leadership, relating to situations where the leader only responds in case of a problem. Then, this Factor is contained in two forms: passive and active (Bass & Avolio, 1990). This subfactor, *management by exception*, seems negative as leadership attributes (Geijsel et al., 1999). In educational settings, Transactional leadership has been described as having four dimensions, namely staffing, instructional support, monitoring school activities, and community focus (Leithwood & Jantzi, 2000).

B. Innovation Capability

Anning-Dorson (2016) offers that innovation in service companies can come from multiple sources and service companies seek innovation from within their operations; from the market (external environment) and customers (Anning-Dorson, 2016). Innovation is the practical application of an idea into a new product or process. Innovation is a condition in goods and services, even ideas that are considered something new (Mansury & Love, 2008). Innovation capabilities are considered as valuable assets for the company to provide and maintain a competitive advantage and in the implementation of all strategies. It is structured through the main processes in the company (Lawson & Samson, 2001). Innovation capabilities facilitate companies to rapidly introduce new products and adopt new systems but are essential to a factor to feed ongoing competition. Innovation performance can be described as a combination of assets and resources. It, therefore, requires a wide variety of resources, assets, and capabilities to propel success in a rapidly changing environment (Rajapathirana & Hui, 2018). According to Rajapathirana & Hui (2017) innovation capability is defined as (1) the capacity to develop new products that meet market needs; (2) the capacity to apply appropriate process technology to produce these new products; (3) the capacity to develop and adopt new products and processing technologies to meet future needs; (4) and the capacity to respond to deliberate technology activities and unforeseen opportunities created by competitors. In this study, the variable definition and dimensions of variable innovation capability were adapted from the research of Rajapathirana & Hui (2017), namely: organizational culture, knowledge, and customer and employee engagement.

Based on the theoretical study and previous research above, the research model is as in Figure 1. While the research hypothesis is as follows:

H1: Transactional leadership has a significant effect on the innovation capability of lecturers

H2: Transformational leadership has a significant effect on the innovation capability of lecturers

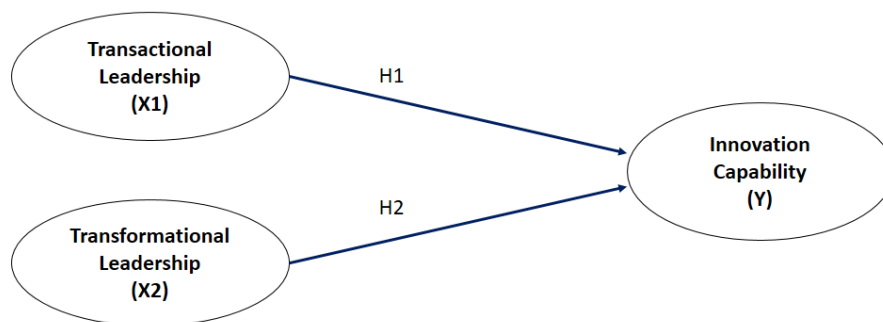


Figure 1. Research Model

III. RESEARCH METHODS

A. Operational Definition of Variables and Indicators

The method used in this research is the quantitative method. Data collection was carried out by distributing questionnaires to all lecturers of higher education institutions. The instrument used to measure transactional variables (X1.1-X1.5) and transformational leadership (X2.1-X2.5) was adapted from research and validation by (Bogler, 2001), with each variable of 5 items. While the instrument used to measure variable innovation capability was 3 items (Y1-Y3) which were adapted from research of Rajapathirana & Hui (2018b) that has been validated by (Sasono & Novitasari, 2020). The questionnaire is designed closed except for questions/statements regarding the identity of the respondent in the form of a semi-open questionnaire. Each closed question/statement item is given five answer options, namely: strongly agree (SA) score 5, agree (A) score 4, neutral (N) score 3, disagree (DA) score 2, and strongly disagree (SDA) score 1. The method for processing data is by using PLS and using SmartPLS version 3.0 software as a tool.

B. Population and Sample

The population in this study were 171 lecturers of private higher education in Indonesia. The questionnaire was distributed electronically with a simple random sampling technique. The number of returned and valid questionnaires was 101. So, 60.2% of questionnaires were valid from the number of lecturer population.

IV. RESULTS AND DISCUSSION

A. Sample Description

Table 1. Sample Description

Criteria		Total	%
Age (as of March 2020)	<30 years	6	7%
	30 - 40 years	80	79%
	> 40 years	14	14%
The tenure as a lecturer	<5 years	65	64%
	5-10 years	28	28%
	> 10 years	8	8%
Highest diploma	S2	83	82%
	S3	18	18%

Source: The respondent profile table is derived from a summary of the questionnaire returned (authors, 2021)

B. Test Results of the Validity and Reliability of Research Indicators

The testing phase of the measurement model includes testing for convergent validity, discriminant validity, and composite reliability. The results of the PLS analysis can be used to test the research hypothesis if all indicators in the PLS model have met the requirements of convergent validity, discriminant validity, and reliability testing.

1. Convergent Validity Testing

A convergent validity test is done by looking at the loading factor value of each indicator against the construct. In most references, a factor weight of 0.5 or more is considered to have sufficiently strong validation to explain latent constructs (Chin, 1998; Ghozali, 2014; Hair et al., 2010). In this study, the minimum acceptable loading factor is 0.5, provided that the AVE value of each construct is > 0.5 (Ghozali, 2014).

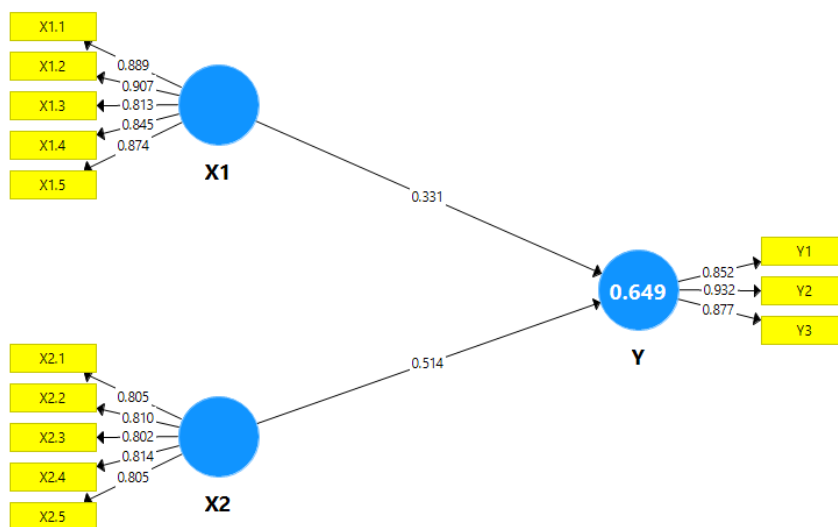


Figure 2. Valid model

Based on the estimation results of the PLS model in the picture above, all indicators have a loading factor value above 0.5 so that the model has met the convergent validity requirements. Apart from looking at the loading factor value of each indicator, convergent validity was also assessed from the AVE value of each construct. The AVE value for each construct of this study is above 0.5. So the convergent validity of this research model has met the requirements. The value of loadings, Cronbach's alpha, composite reliability, and AVE for each complete construct can be seen in Table 2 below:

Table 2. Items Loadings, Cronbach's Alpha, Composite Reliability, and Average Variance Extracted (AVE)

Variables	Items	Loadings	Cronbach's Alpha	Composite Reliability	AVE
Transactional Leadership (X1)	X1.1	0.889	0.917	0.938	0.750
	X1.2	0.907			
	X1.3	0.813			
	X1.4	0.845			
	X1.5	0.874			
Transformational leadership (X2)	X2.1	0.805	0.867	0.903	0.652
	X2.2	0.810			
	X2.3	0.802			
	X2.4	0.814			
	X2.5	0.805			
Innovation Capability (Y)	Y1	0.852	0.866	0.918	0.789
	Y2	0.932			
	Y3	0.877			

Source: The Table is derived from the output of the SmartPLS 3.0 (authors, 2021)

2. Discriminant Validity Testing

Discriminant validity is done to ensure that each concept of each latent variable is different from other latent variables. The model has good discriminant validity if the AVE squared value of each exogenous construct (the value on the diagonal) exceeds the correlation between this construct and other constructs (values below the diagonal) (Ghozali, 2014). The results of discriminant validity testing using the AVE square value, namely by looking at the Fornell-Larcker Criterion Value are obtained as referred to in Table 3.

Table 3.Discriminant Validity

Variables	X1	X2	Y
Transactional Leadership (X1)	0866		
Transformational leadership (X2)	0.807	0.807	
Innovation Capability (Y)	0.746	0.781	0.888

Source: The Table is derived from the output of the SmartPLS 3.0 (authors, 2021)

The results of the discriminant validity test in table 3 above show that all constructs have a square root value of AVE above the correlation value with other latent constructs (through Fornell-Larcker criteria) so that it can be concluded that the model has met discriminant validity.

3. Construct Reliability Testing

The construct reliability can be assessed from the Cronbach's alpha value and the composite reliability of each construct. The recommended composite reliability and Cronbach's alpha values are more than 0.7. (Ghozali, 2014). The reliability test results in table 2 above show that all constructs have composite reliability and Cronbach's alpha values greater than 0.7 (> 0.7). In conclusion, all constructs have met the required reliability.

C. Hypothesis Testing

Hypothesis testing in PLS is also called the inner model test. This test includes a significance test for direct and indirect effects as well as measuring the magnitude of the influence of exogenous variables on endogenous variables. To determine the effect of transactional leadership and transformational leadership on lecturers' innovation capability, a direct and indirect effect test is needed. The effect test was carried out using the t-statistic test in the partial least squared (PLS) analysis model using the SmartPLS 3.0 software. With the bootstrapping technique, the R Square value and the significance test value were obtained as shown in table 4 below:

Table 4.Value of R Square

	R Square	R Square Adjusted
Innovation Capability (Y)	0.649	0.643

Source: The Table is derived from the output of the SmartPLS 3.0 (authors, 2021)

Table 4. Hypotheses Testing

Hypotheses	Relationship	Beta	SE	T Statistics	P-Values	Decision
H1	X1 -> Y	0.31	0.088	3,778	0.000	Supported
H2	X2 -> Y	0.514	0.097	5,296	0.000	Supported

Source: The Table is derived from the output of the SmartPLS 3.0 (authors, 2021)

Based on Table 4 above, the value of R Square innovation capability (Y) is 0.649, which means that the innovation capability variable (Y) can be explained by the transactional leadership (X1) and transformational leadership (X2) variables of 64.9%, while the remaining 35.1% is explained by other variables not discussed in

this study. Meanwhile, Table 5 shows the T Statistics and P-Values which show the influence between the research variables that have been mentioned. In summary, transactional leadership and transformational leadership have a positive and significant effect on the innovation capability of lecturers in Indonesia. So the first hypothesis (H1) and the second hypothesis (H2) are accepted.

D. Discussion

The most interesting finding from this study is the real effect of higher education organizational leadership on the innovation capability of lecturers in higher education. They have perceptions of job prestige, self-esteem, workplace autonomy, and professional self-development that contribute the most to their innovation capabilities. These findings support previous research that revealed a significant positive relationship between aspects of leadership and innovation (Novitasari, Kumoro, et al., 2020; Purwanto et al., 2021), as well as an analysis of the effect of transactional/transformational leadership on teaching performance in higher education (Cahyono et al., 2020; Purwanto, Mayesti Wijayanti, Chi Hyun, & Asbari, 2019; Purwanto, Wijayanti, et al., 2019), and school education (Bernarto et al., 2020; Novitasari, Asbari, et al., 2020). These researchers argue that motivators, which refer to intrinsic aspects of teaching such as lecturers' self-growth, personal development, and recognition, tend to promote job satisfaction. The cleanliness factor, which is related to the external aspect of the job as poor working conditions, tends to lead to lecturer dissatisfaction (Asbari, Nurhayati, et al., 2020; Bernarto et al., 2020; Hyun et al., 2020; Purwanto, Mayesti Wijayanti, Chi Hyun, Asbari, et al., 2019; Purwanto, Putri, et al., 2020). Future studies should investigate the concept of lecturer job satisfaction by differentiating its constituents, as has been done in many studies. In the current study, overall job satisfaction, including aspects of self-fulfillment with both internal and physical aspects of the job, was examined. Further research should be carried out to clarify the concept of job satisfaction as reported by Hyun et al. (2020), there is heterogeneity between lecturers and concerning what they find satisfying and/or satisfying.

V. CONCLUSION

Implications and conclusions These findings, on the one hand, support research conducted elsewhere, such as research (Fayzhall et al., 2020; Asbari et al., 2020; Purwanto, Asbari, et al., 2020; Purwanto, Bernarto, et al., 2020; Purwanto, Wijayanti, et al., 2019) which shows that lecturers prefer to work with leaders who are exhibits a transformational type of behavior. But also, this study provides clarification that lecturers also need a transactional leadership style. However, this finding should come as no surprise as actors acting as transformational leaders appear to be maximizing the autonomy that lecturers have had for a long time. However, the findings of this study remind us all that the two types of leadership examined in this study are needed as one. Because sometimes lecturers need orders and leadership that are very instructional and transactional. However, lecturers indeed feel the effect of transformational leadership is almost twice as large as the effect of transactional leadership styles. So, the findings regarding the preference of lecturers for transformational leaders appear to strengthen organizational structure and function. This research invites the world of education to pay attention to the inner realm of the lecturers. This study suggests that higher education management needs to pay attention to factors related to all aspects of leadership, especially the clarity of duties and responsibilities given to lecturers, motivation to achieve performance targets, and turn higher education leaders into a figure of an education coach.

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