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Leading the Digital Revolution Examining the Impact of Digital Leadership on Work Performance and **Organizational** Commitment in the Kawasan Industri Mitra (KIM)

Honorata Ratnawati Dwi Putranti 1), Sulistiyani 2)

1,2) Fakultas Ekonomika dan Bisnis jurusan Manajemen Universitas 17 Agustus 1945 Semarang

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ABSTRACT

This research aims to examine and analyze the effect of digital leadership on work performance through organizational commitment. The research population is all employees in the Mitra Industrial Area (KIM) Karawang, West Java. A total of 214 samples were taken using random sampling. The digital leadership variable uses two dimensions with three indicators each, the organizational commitment variable uses three dimensions with three indicators each, and the work performance variable uses three indicators. The results obtained show a positive and significant effect of digital era leadership on work performance and a positive and significant effect of organizational commitment on work performance. These results are analyzed together with the dimensions used. The results obtained from leadership in the employee dimension are greater than the innovation focus dimension. The greatest organizational commitment is in the normative commitment dimension.

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Corresponding Author:

Honorata Ratnawati Dwi Putranti

Fakultas Ekonomika dan Bisnis jurusan Manajemen Universitas 17 Agustus 1945 Semarang

Email: Honorata-ratnawati@untagsmg.ac.id

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INTRODUCTION

Leadership is a process of social influence and goal-oriented, taking place in time and adaptive environments. Leadership variables (such as the behavior of a leader) will affect the outcomes of the organization (such as the performance of a team) through closer mediating constructions, such as the motivation of followers to stay together [1]. Employees of a company consisting of a group or team want a leadership style that can support activities within the company. Team leadership style is generally most appropriate in all situations. The current situation that is constantly developing enters the stage of the technology industry, often referred to as Industry 4.0. Industry 4.0 on the system of manufacturing, product, and component-type companies. Industry 4.0, promoting industrial automation to develop innovation in manufacturing companies, product producers and component manufacturers, is a paradigm that challenges way manufacturers think knowledge-intensive industrial processes. Automation processes make manufacturing more flexible, smarter, and more effective and efficient [2]. If humans, machines, and processes are regulated in a smart and intelligent network, high-quality products can be made faster, and competitive advantages can be made by making production costs more competitive. Industry 4.0 relies on a number of innovative technological developments such as information and communication technology, which is used to digitize information and integrate systems at all stages of product development and life, both within and service across organizations to monitor and control physical processes and systems and support human workers using robots, smart tools, and augmented reality [3]. Industry 4.0 digitally and integrates processes vertically throughout the organization, from product development and procurement to manufacturing, logistics, and service. In Industry 4.0, dynamic business processes and engineering allow for last-minute changes in production and resulting in new ways to create value and new innovative business models. Industry 4.0 has an impact on all business fields.

The rapid process of digitalization and the need for organizations to become more efficient requires leaders who understand and adapt to new innovations effectiveness and efficiency in managing the company [4]. The rapid development of technology requires leaders to adapt to technology and human resources. Leadership 4.0, also known as leadership in the 4th industrial era or digital leadership, is not limited to the technology industry. A leader becoming a digital leader is not just about the company's area of work, but rather it is about the leadership style and ability of the leader to inspire employees to innovate and maintain their ideas, so that company members have a strong desire to stay with the company because of the support from the leader [5]. An adaptive leadership style will cultivate follower commitment, and leadership is generally identified as a key developing factor in organizational commitment [6]. The results of the correlation between leadership style and organizational commitment were found to be positively related [7]. However, the strongest correlation was found between inspirational motivation related to commitment and between the individual consideration subscale related to commitment for transformational leadership. particularly seen in the relationship between contingency rewards and appreciation

commitment. Although there is a significant correlation between leadership style and organizational commitment, organizational commitment is not tested with a unified dimension. Although previous research has discussed the benefits of commitment and loyalty, there is less empirical research that examines the relationship at the subdimension level [8]. Human resource practices lead higher company performance through their influence on employee-based capabilities and resources. In this article, we argue that certain HR development network practices can be used to manage external and internal company social networks to improve performance. The goal of this research is to examine and analyze the effect of digital leadership on work performance through organizational commitment, with a focus on the dimensions of the digital leadership and organizational commitment variables.

Organizational learning can also mediate the relationship between leadership and other variables such as organizational innovation [8]. Leadership and organizational literature shows that leadership influences, for example, innovation through the use of organizational learning variables such as organizational innovation considered as an essential element for organizations, organizational innovation still relies on organizational learning to develop innovative strategies and performance [9]. This indicates that the relationship between leadership and organizational learning can be both direct and indirect in organizational settings. Various theories about leadership are classified into individual, team, organizational, or extra-organizational levels [10]. This can be seen in the following table 1.

Tabel 1. Analyst Leadership Classified

Analyst Level	expansion	advantage		
individual	Human Resource Development	Individual Resource level		
	includes the development of experience [11]	benefits include self-efficacy		
	assessment development [12]	[14]		
	empathy [13]	Trush [15]		
	and different thinking skills with the continuity of leadership.	psychological empowerment		
	This effect is mediated by challenging developmental	[16]		
	experiences. There is a linear relationship between cognitive	and organizational identity.		
	abilities and continuity in an organization.			
Team	Team Resource Development	Team resource benefits		
(group)	Includes team learning [17]	include group solidarity [18]		
	Team coaching [18]	team priority [9]		
	team leader development, facilitating communication, and	9 9		
	overcoming distance-related limitations through successful			
	technology implementation. The most effective leaders assist			
	the team in learning by communicating motivating reasons for			
	change and minimizing concerns about power and status			
	differences to promote open communication in a learning			
0	environment.	O a a a a a a a a a a a a a a a a a a a		
Organization	Organizational Resource Development includes organizational	Organizational Resource		
	learning			

Analyst Level	expansion	advantage		
	Organisasi learning [19] Human capital [15] and the development of the right capabilities, which has become an inevitable solution to addressing the challenges that surround an organization, this is called organizational learning. Entrepreneurs with harmonious passion have a higher centrality in their network groups (i.e. they are more likely to seek out members to discuss work-related problems), which increases the income they receive from peer referrals and	benefits include organizational climate [20] Collective organizational engagement [6]		
External	ultimately, business income Development of External Resources Network Centrality [21] Eksternal ties [22] Entrepreneurs/leaders who have a harmonious enthusiasm have a higher centrality in their network groups (i.e. they are more likely to seek out members to discuss work-related issues), which increases the revenue they receive from peer referrals and, ultimately, business income.	Collective organisation engagement [6]		

With respect to self-improvement, the organizational support theory argues that organizational support meets socioemotional needs such as self-esteem, affiliation, and emotional support, leading to larger organizational identification in turn. increases affective which. commitment. All three organizational commitment concepts serve the same functional purpose: they help employees to find personal meaning in their day-today work activities. Organizational membership becomes a salient social category that motivates individuals to work hard on behalf of their organization [21]. Previous research has identified various positive attitudes and behaviors associated with high levels of organizational commitment Searle et. all (2011) [23], indicating that all three yield important psychological benefits to the worker.

H1 There is an influence of digital leadership on work performance

mediated by Organizational Commitment.

H2 There is an influence of digital leadership on work performance

RESEARCH METHOD

The sampling method used in this study is Simple Random Sampling, a method used in random sampling from the existing population. The reason for selecting this sample is to reduce the potential for bias in the selection of respondents in selecting cases to be included in the sample. The objects of this research are employees in the Mitra Industrial Zone (KIM) Karawang, West Java, with supervisor and operator positions as samples. The number of respondents sampled was 214 from 250 questionnaires (a list of questions sent via Whatsapp to employees in KIM Karawang). The sampling technique is non-random sampling. The results of questionnaire tests found that all results are valid and fall reliable into the category [16].

Demographic data obtained is categorized according to gender, age, education and length of employment. The gender between men and women was almost the same which was 108 for men and 106 for women, this was due to the KIM Karawang Industrial Zone accepting a balanced number of male and female employees because of the various companies that allowed for male or female employees. The age of the respondents with the most was 30-35 years old as many as 88 people, which showed that the productive age was high and they were more likely to understand technology and be eager to innovate. The most educated were diploma and bachelor's degrees, indicating that formal education was still a consideration for working in some companies in the KIM area. The average length of employment was more than years, which indicates that the existing employees had worked in the area for quite

Operational Variables, Dimensions, and Indicators

Digital Era Leadership: Leadership is the process of influencing leaders and followers to achieve organizational goals through change. Traditionally, there are

five key elements to define leadership including leader-follower, influence, organizational goals, people, and change [24]. The dimensions consist of: Focus on employees, focus on innovation, and with indicators: creating a friendly atmosphere providing inspiration and as a negotiator [25]. Organizational Commitment The strength of individual employees' emotional attachment to the organization and consists of three dimensions: Affective Commitment. (employees' emotional relationship with the organization); Continuance, (the investment felt related to leaving the Normative organization); and Commitment, (the moral duty to stay with the organization) [14]. The indicators used are strong desire, aligned goals, and emotional relationship of members and the organization. Work Performance Higher corporate performance through its influence on the capabilities and resources top-down employee-based company. In this article, we argue that a certain SDM practice system can be used to manage Tabel 2 Operational variables and dimensions and indicators.

Table 2. Operational variables and dimensions and indicators

Variable	Dimention	Indicator		
Digital Leadership is the 'process of	Focus on employees	Create a friendly atmosphere		
influencing leaders and followers to		Giving inspiration		
achieve organizational goals through		negotiator		
change.' Traditionally, there are five	Focus on Innovation	digital leader		
key elements to defining leadership		Leading technology		
including leader-follower, influence,		entrepreneur		
organizational goals, people, and				
change [26]				
Organizational Commitment	Affective Commitment	1. Strong will		
Individual employee's strength of		2. Goals are aligned		
attachment to an organization and		3. The emotional relationship		
consists of three dimensions:		between members and the		
affective commitment (employee's		organization		

Variable	Dimention	Indicator
emotional relationship with the	continue commitment	1. Benefits of both parties
organization); continuance (felt		2. Economic value
investments related to leaving the		3. Participatory investment
organization); and normative commitment (moral obligation to	normative Commitment	 Consideration of other parties
stay with the organization) [14]		2. Dynamic work environment
,		Accept organizational values
Work performance		1. Pleasure in carrying out
Higher company performance		work
through its influence on corporate		2. Performance evaluation
capabilities and human resources based on employees. In this article, we contend that certain		3. Long term benefits
development HR practices systems		
can be used to manage the external		
and internal corporate top-level		
social networks [6].		

RESULT AND DISCUSSION

Analysis Statistics

Translation Statistical Analysis The data for this research was collected through survey and analyzed using SMARTPLS 5. The requirements that should be met in developing the model were evaluated for validity, comprising of average variance extracted (AVE), factor loading, composite reliability, Fornell-Larcker Criterion, crossloading, and reliability evaluation. The next step was to determine the relationship between one construct to the other to assess the model fit using R 2 coefficient,

predictive relevance Q2, and significance of path coefficient, f2, and Q2

Outer Model Evaluation

evaluation. Outer Model Evaluation Outer model evaluation was done to test the validity and reliability of every construct in the measurement model. Parameters used were AVE, factor loading, composite reliability, Fornell

Table 3. Validity and Reliability Criteria for Each Construct

Construct	Indicator	Loading Factor	Cronbach's Alpha	Composite reliability*		Fornell-Larcker Criterion			
					AVE**	Digital Leadership	Organizational Commitment	Work Performance	
Organizational	AC1	0,834	0,864	0,848	0,682	0,323	0,693	0,444	
Commitment	AC2	0,863							
	AC3	0,824							
	CC1	0,821							
	CC2	0,847							
	CC3	0,827							
	NC1	0,836							

Construct		Loading Factor	Cronbach's	Composite reliability*	AVE**	Fornell-Larcker Criterion		
	Indicator		Alpha			Digital Leadership	Organizational Commitment	Work Performance
	NC2	0,819	-					
	NC3	0,842						
Digital	EF1	0,858	0,785	0,893	0,682	0,694	0,323	0,419
Leadership	EF2	0,863						
	EF3	0,841						
	IF1	0,876						
	IF2	0,834						
	IF3	0,831						
Work	WP1	0,839	0,810	0,887	0,724	0,419	0,444	0,851
Performance	WP2	0,880						
	WP3	0,833						

^{*}Composite reliability should be more than 0.7

Based on Table 3, all constructs meet the criteria for AVE (concurrent validity), composite reliability, and the Fornell Larcker criteria (discriminant validity and reliability). Additionally, the outer loadings for each indicator are greater than 0.7. According to the cross-loading values, all indicators have the highest loading on their respective construct, indicating that all

constructs have acceptable discriminant validity.

Inner Model Assessment

After evaluating the outer model, Table 3 evaluates the inner models such as r-square, f-square, Q and q-square it can bes shown full model with in figure 1.

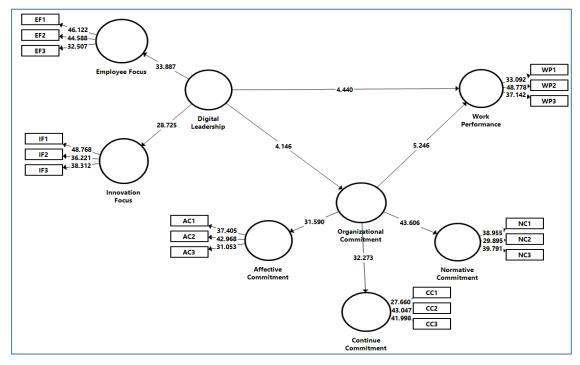


Figure 1. Full model PLS

^{**} AVE should be more than 0.5

^{***}Cronbach's Alpha should be more than 0.7

^{****}Fornell-Larcker Criterion should be more than the correlation value of that construct to another construct

Table 4 below shows the path beta and p values of the two pathways in the model.

Path beta and p-value extracted from 500 bootstraps using SMARTPLS 5.

Table 4. Path beta, t-value, and P-value

Path	Path beta	t-value	P-value
Organizational Commitment → Work Performance	0,344	5,426	0,000
Digital leadership→ Work Performance	0,308	4,440	0,000
Digital leadership→ Organizational Commitment	0,303	4,146	0,000

As shown in Table 4 above, all three paths are statistically significant at 5%. The betas are in positive values. This result supports Hypothesis 1 to 2 and are declared accepted. Furthermore, to test the

mediation hypothesis, it can be seen in Table 5.

Table 5. Direct, indirect effect and VAF

Path	Value	P value
Digital leadership→ Work Performance [1]	0,308	0,000
Digital leadership→ Organizational Commitment → Work Performance [2]	0,111	0,000
Total effect (direct +indirect) [3]	0,419	0,000
VAF ([2]/[3]	0,264	0,000

Table 5 shows that the indirect effect value of digital leadership on work performance through organizational commitment was 0.111, and the value is significant at 1%. mediating variable the organizational commitment is declared fit to be a mediator. Besides, the value of VAF was 0.264 or 26.4% which is under 80%, which indicates that the mediator is a partial mediator. Therefore, it can be concluded that organizational commitment can provide the relationship of digital leadership to work performance.

Leadership is an aspirational strength, a spirit of strength, and a creative moral strength that is able to influence members to change their attitudes so that they are in line with the wishes and aspirations of the leader [15]. Leadership is described as the capacity to guide the company towards achieving its goals and building sustainable

competitive advantage. To maintain sustainable competitive advantage, companies must have products and technical systems that accelerate and enable production, communication, and cost reduction, as well as the ability to use these products and systems. Digital leadership is a fast, cross-hierarchical, team-oriented, and cooperative action with a very focused on innovation. Digital leadership competencies are dependent on the ability of the thinking pattern to create methods instruments and this becomes the most important dimension for digital leaders [24]. Digital leadership refers to the core competencies in communication, content, and computing as contributions to public knowledge.

Digital leadership is dynamic and central to driving digital transformation, integrating

cultures and competencies to maximize digital technology to create value [4]. Digital technologies have an influence not only on information technology but also on how business is managed and what kind of leadership style is applied. These results are consistent with previous research such as Crossley et. all (2013) [10] Digital technology has an influence not only on the field of information technology but also on how businesses are managed and what kind of leadership style is adopted. These results are consistent with previous studies such as: Delegach et. all (2017) [5], Hsio et. all (2010) [8] who found that digital leadership has a positive effect on work performance. The results obtained from leadership on the employee dimension are greater than the innovation focus, which means that in the face of technological advances, leaders must still increase their focus on their employees, because human resources are the main factor in the development and sustainability of the companies they lead [9]. The results of the dimensions of Organizational Commitment have the greatest impact on the dimension normative Commitment, indicates that adaptation to the situation and external relationships is needed for leaders in this digital era. The development of innovation and transformation of a leader is essential for the sustainability of the company [15], [8].

CONCLUSION

Digital Era Leadership: Leadership is the process of influencing leaders and followers to achieve organizational goals through change. As with any research, this research has its own limitations, where the research carried out with some constraints such as the number of companies, available resources, and industry fields. As from the data collected from companies in KIM Karawang, generalization of the findings is limited. Future studies are expected to discuss about this, studies with larger sample sizes and in other regions need to be carried out to provide more detailed answers in this area. Answers from research are 100% from manufacturing companies thus can be assumed that the current study primarily focuses on manufacturing. Digital era expected to focus leaders are employees and innovation. Crossfunctional teams in organizations must treat quality improvement as an everending issue. Future studies may encompass additional leadership focus such as driven by other leadership styles which also to be explored further to test several other leadership styles such as transactional, participative, charismatic, visionary, and laissez-faire for other work performance focus. For this focused research, it is suggested to conduct indepth qualitative research on manufacturing companies in all industrial areas in West Java, to obtain more data about the phenomena in this study.

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BIOGRAPHIES OF AUTHORS

Author 1



Honorata Ratnawati Dwi Putranti Putranti Received a Doctor of Management degree from Satya Wacana Kristen University, Salatiga in 2017. My Bachelor's and Masters's education are from the Management program. Currently a lecturer at the Faculty of Economics and Business/management department/MSDM concentration, University of 17 Agustus 1945 Semarang. Field of research that is occupied, with Human Resources in organizations, Resources, and technological developments. Has published more than 70 papers in international journals and conferences. From 2005 to July 2022. Subjects taught include Organizational Behavior, HR Management, HR Research and seminars, and Talent Management. She can be contacted via email: honorata-ratnawati@untagsmg.ac.id

Author 2



Dr. Dra. Sulistiyani, MM. lahir di Semarang 20 Oktober 1963. Educational History the author graduated S1 in 1991 di Universitas 17 Agustus 1945 in the field of Management, S2 graduated in 2000 at Diponegoro University Semarang in the field of Management, and S3 graduated in 2012 in the Doctoral Program in Economics at the University Diponegoro Semarang in the field of Management concentration. Currently the author is active as a lecturer. Subjects that have been taught are: 1) Marketing Management; 2) Research Methodology; 3) Market Behavior; 4) Marketing Seminars; 5) Human Resource Management. Some of the books that have been written include: a). SME Marketing Performance. b). Building a Katrampilan model in the patchwork business, c). Culture-Based Generative Learning Model in the business of UD Anugrah factory waste in Semarang Regency