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### RELATIONSHIP BETWEEN CHARACTERISTICS AND PUBLIC UTILITY SERVICE MOTIVATION: THE EVIDENCE IN VIETNAM

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### ABSTRACT

Since Vietnam transitioned to a market economy, many workers have moved from the public sector to the private sector, along with embezzlement and corruption among workers in the public sector, which were increasing. This fact has received significant attention from domestic and international scientists about public service motivation. However, previous studies only considered external factors. Enrich the references: this study explores the relationship between personality traits and public service motivation. This study was conducted through a cross-sectional survey using a targeted sampling technique (n=500). The SEM model was used to test the hypotheses. The SEM model demonstrated personality traits that positively and significantly impact public service motivation, including Openness, Extraversion, and neuroticism. Furthermore, they are thoroughly and mainly related to public service motivation; personality traits that are not entirely related and significant to public service motivation include Agreeableness and Conscientiousness.

Key Words: Public Service Motivation, Big Five Personality Traits, Public service, Vietnam.

#### **1. INTRODUCTION**

In Vietnam, the transition from a centrally planned and subsidized economy to a market economy, especially the rapid development of the integration period in recent years, has directly affected the work motivation of employees in state agencies (Ho, 2004). Previously, Vietnamese scientists believed that the manifestation of employees' working motivation in state agencies was loyalty to the noble ideals set forth by the Communist Party of Vietnam, such as for the Party, for the people. ; for the common good, collectivism (Hoang & Nguyen, 2014). However, when Vietnam moved to market economic development, embezzlement and corruption among workers in the public sector increased. An increasing number of workers are moving from the public sector to the private sector (Nguyen, 2010). This fact requires research on motivation to work in the public sector and motivation to serve the public. From this point on, studies on the work motivation of workers in Vietnam have focused on both the public and private sectors (Truong, 2011, Nguyen, 2014).

Motivation studies serving Vietnam approach both external factors and internal factors of employees. External factors include salary, bonus and remuneration regimes, working

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environment, leadership style, promotion opportunities, culture, the attractiveness of the job. Internal factors of employees such as needs, interests, and goals; personal characteristics, cultural background, expertise, skills, demographic characteristics (Hoang & Nguyen, 2014); Truong, 2011; Nguyen, 2014; Nguyen, 2010).

Public service motivational studies in Vietnam have also appeared more and more in recent decades. However, most studies focus on understanding factors outside the employees themselves, such as pride, working conditions, promotion opportunities, recognition of individual contributions, salary regime, bonus, social welfare, leadership style (Truong, 2018; Nguyen, 2015), training and promotion opportunities, relationship with superiors, relationship with colleagues, nature of work, conditions (Nguyen Thi Gam, Pham Thi Thu Hang, Hoang Van Giap, Ngo Thi Van, Tran Van Tho. 2019).

Up to now, studies on public service motivation in Vietnam approaching from personality factors are still absent. Meanwhile, the study of public service motivation approaching from the employee's personality factor is significant. According to Perry & Wise (1990), personality or personal values are extremely important for people working in the public sector and those working in the public service sector. Public service motives include the underlying motives for employees working in public institutions. Individuals who may be best suited to work in public institutions and those best able to serve the public have a high index of public service motivation (Perry, 2000). Lewis & Alonso (1999) determined that a positive and direct relationship exists between public service motivation and job performance (Frey & Oberholzer-Gee, 1997; Le Grand, 2003; Perry & Bright, 1990; Petrovsky, 2009). In addition, it has also been found that employees with higher public service motivation have higher job satisfaction and higher levels of job commitment and loyalty to their organizations. surname (Behaj, 2012; Camilleri & Heijden 2007). According to Crewson (1997), public employees value their services more than private-sector employees.

It is a quantitative study exploring the relationship between individual personality traits and motivation to serve the public to bridge this gap. This study first complements the theory of personality traits and public service motivation, then provides a basis for human resource policymakers of the government and local authorities at all levels in Vietnam for reference to have appropriate human resource policies working in the public sector.

### 2. LITERATURE REVIEWS

#### **Public Service Motivation**

Perry & Wise (1990) define public service motivation as an individual's orientation to satisfy primary or sole motives in public institutions. Subsequent studies by (Brewer & Selden, 1998; Perry, 1996; Perry & Wise, 1990; Wamsley & Wolf, 1990) have provided additional proof of this concept. According to Perry & Wise (1990), public service motivation includes four aspects: (1). Attraction to public policy formulation. This aspect belongs to rational motives and is related to being motivated to engage the public sector to participate in public policymaking, thereby strengthening self-image and self-importance by strengthening self-image and self-

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importance. stronger (Perry & Wise, 1990); (2). Commitment towards the public interest and this aspect is related to normative motivation and implies a commitment of public officials to the concern of the public interest, i.e., being more motivated to ensure that the common good is met rather than prioritizing others something on purpose (Perry & Wise, 1990); (3). Compassion towards the public. This aspect implies that a public servant is more motivated to participate in the public sector because of their altruistic nature. they sympathize with the public and can do everything to make people lead a comfortable life. roof (Perry & Wise, 1990); (4). Self-sacrifice. It implies that public employees are motivated to enter the public sector because they want to work for a greater purpose than their personal needs. In essence, they are motivated to give up their self-interest for the well-being of the people (Perry & Wise, 1990). Studies by (Perry 1996; Perry, 1997; Perry & Wise, 1990) suggest that these aspects belong to three motives that are broadly classified as (i) rational motives, (ii) criteria-based motives, normative (iii), and effective motives (Perry, 1996).

Public service motivation is expressed as a type of motivation that is particularly relevant to public institutions. Public service motivation includes beliefs, attitudes, and values that motivate employees to act in their interests beyond their own (Li & Liu, 2014). Furthermore, public service motivation is proposed as a tool to overcome incentive problems in the public sector and to increase performance (Homberg & McCarthy, 2015). Subsequent studies on public service dynamics are applied in different fields and purposes. E.g., Buelens & Broeck (2007) discover that wages and development opportunities are less critical for workers in the public sector( Choi 2001), in his study, in which he compared public service motivations of people working in the private and public sectors, showed a higher sense of public service towards workers. Public service motivation is not a phenomenon valid only in the public sector as it relates to all areas of work (Bozeman & Su, 2015). Public organization employees are motivated based on sensitivity to social issues and willingness to serve in the public interest (Houston, 2000). Perry & Wise (1990) argue that public service motivation significantly influences employees' attitudes and behavior; the analysis of public service motivation is fundamental. Public service motivation is considered a method of increasing the quality of public services (Myers, 2008). Li & Wang (2016) found that people with high public service motivation value their studies more and expect higher job satisfaction such as Andersen, Heinesen, & Pedersen (2014) suggested that the impact of public service motivation on student achievement led to the conclusion that students' test scores of teachers have public service motivation with higher.

Public service motives include the underlying motives for employees working in public institutions. According to Crewson (1997), public employees value their services more than private-sector employees. Individuals who may be best suited to work in public institutions and those best able to serve the public have a high index of public service motivation (Perry, 2000). Lewis & Alonso (1999) determined that a positive and direct relationship exists between public service motivation and performance (Frey & Oberholzer-Gee, 1997; Le Grand, 2003; Perry & Bright, 1990; Petrovsky, 2009). In addition, it has also been found that employees with higher public service motivation have higher job satisfaction and higher levels of job commitment and loyalty to their organizations. surname (Behaj, 2012; Camilleri & Heijden, 2007).

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### The Big Five Personality Traits:

Many theories of personality are present about personality, including those of Sigmund Freud, Carl Jung, Alfred Adler, Walter Mischel, Albert Bandura, of which the Big Five Personality model has been developed to make measuring personality measurement becomes as manageable and accurate as possible (Cattell, Eber, & Tatsuoka, 1988; Costa & McCrae, 1995; Fiske, 1949; Goldberg, 1993; Tupes & Christal, 1992). The Big Five model due was developed by Lew Goldberg. According to this model, personality can be measured based on five essential characteristics, including extraversion (Extraversion), conscientiousness (Conscientiousness), agreeableness (Agreeableness), willingness to experience (Open to experience), and Neuroticism. The body of research has revealed that personality has a significant impact on an individual's working life, thus describing that the five major personality traits have different influences on an individual's behavior and attitudes level. Each personality trait affects individual behavior differently.

The Big Five Personality Traits have evolved over the years, beginning with the work of DW Fiske (1949) and later being extended by other researchers (Norman, 1967, Smith, 1967, Goldberg, 1981, McCrae & Costa, 1987). Psychologists suggest that personality can be summarized by five traits known as the Big Five (John, Naumann & Soto 2008; McCrae & Costa, 2008). Various methods then analyzed the Big Five, and the researchers concluded that, at an extensive abstraction level, the Five Five captures the main dimensions of individual variation (John, Naumann, & Soto, 2008; McCrae & Costa 2008). The five core characteristics of the Big Five model are extroversion, agreeableness, openness, conscientiousness, and sensitivity (Gerber et al., 2010). Specifically, the Extraversion personality is characterized by extraversion, expressiveness, sociability, self-confidence, communication, aggressiveness, and enthusiasm (Barrick & Mount, 1991), a strong desire for social recognition, admiration, unbounded, talkative, active, cheerful, and eagerness. Extroverts are emotionally stable and have gratifying and exciting personalities (Costa & McCrae, 1997). Personality Neuroticism is characterized by emotional insecurity (McCrae & John, 1992), irritability, anger, anxiety, frustration, meanness, intolerance, anxiety, self-consciousness, ambiguity, uncertainty, insecurity, fear, and unhappiness (Barrick & Mount, 1991; Diefendorff, Croyle, & Gosserand (2005). & Mount, 1991), prudent, inclusive, responsible (Moon, 2001), organized and solid, rational, rational, reliable and consistent and adventurous (Goldberg, 1990). The Agreeableness approach has politeness, flexibility, simplicity (Barrick & Mount, 1991), cooperation, helpfulness, compassion, caring, empathy, and non-judgment (McCrae and Costa, 1997). The Openness personality possesses traits such as creativity and innovation (Barrick & Mount, 1991), kindness, gentleness, awareness and understanding, an optimistic attitude, and a better ability to adjust to Other aspects of the Big Five personality (Costa & McCrae) e, 1997).

The Big Five model is applied to many different research fields such as predicting general prejudice (Ekehammar & Akrami, 2003; Sibley & Duckitt, 2008), racism (Jackson & Poulsen, 2005; Silvestri & Richardson, 2001), attitudes toward immigrants (Akrami, Ekehammar & Bergh 2011), political beliefs (Carney et al., 2008; Jost, Nosek, & Gosling, 2008; Jost, 2006), political

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behavior (Hibbing, Ritchie, & Anderson 2011; Gerber et al., 2011; Mattila et al., 2011; Mondak & Halperin, 2008; Mondak, 2010; Mondak & Halperin, 2008).

The five personalities of individuals manifest in different cultures. Therefore, individuals must be placed in specific situations to understand their personality (Allik & McCrae, 2004; Heine & Buchtel, 2009; Schmitt et al., 2007; Denissen & Penke, 2008, Mischel & Shoda, 1995; Canli, 2008). The five personality traits make for a compelling explanation of social attitudes and behavior because it is internal to the individual and, to a large extent, pre-empts adult social experiences: it is systematic large genetic numbers (Medland & HHri, 2009; Yamagata et al., 2006). Personality traits are related to attitudes and economic behavior, social behavior, and political behavior (Gerber et al., 2010, Gerber et al., 2011, Mondak, 2010; Mondak & Halperin, 2008; Mondak et al., 2010).

The five personality model has been studied in many different fields. E.g., Contrasting research with the suitability and decision of individual career choice (Barrick & Mount, 1991, Barrick, Mount, &Judge 2001). In the civil field, individuals with a high self-control index often adhere to the principles and standards of the organization, work hard and persevere in work plans. On the other hand, individuals with low self-esteem often show disorganized, irresponsible, careless, negligent, and impulsive behavior at work (Jin, Watkins, & Yuen 2009).

### Relationship between personality and public service motivation

Many motivations have significant relationships with personality types and personality (Eysenck, 1997). Conscience and openness to experience are positively associated with intrinsic motivation, while superiority is directly related to extrinsic motivation (Komarraju, Karau & Schmeck, 2009). Participation in work was also found to be directly related to personality (Bozionelos, 2003); in addition, Big Five characteristics positively impact work performance (Awadh, A.M. & Wan Ismail, W.K, 2012). Furthermore, Gerber, Huber, Doherty, Dowling & Ha (2010) have found that Big Five Personality traits influence political approach, but context-specific. Public service motivation also has a significant direct relationship with the five major characteristics that affect public service motivation to a large extent (Jang, 2012).

Arjen van Witteloostuijn, Marc Esteve, & George Boyne (2017) study the case of university students and show that core personality traits strongly influence public service motivation. Compassion and self-sacrifice have been positively influenced by personality traits (Honesty-Humility), (Emotionality, and Agreeableness) and negatively by (Conscientiousness). Public service motivation does not affect attractiveness to policymaking (Attraction to Public Participation), and Commitment to the Public Interest is positively associated with openness to experience.

Jang & Chyi-Lu's (2012) case study of civil servants in Taiwan showed a relationship between Big Five personality traits and public service motivation (public service motivation). The rule shows that Extraversion is positively related to attraction to policymaking but negatively related to Self-sacrifice. Agreeableness has a positive relationship with compassion. Conscientiousness has a positive relationship with Commitment to the public interest, Compassion, and Self-

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sacrifice. Neuroticism is negatively related to Commitment to the public interest and compassion but positively related to Commitment to policymaking. Openness to experience is positively related to variables of public service motivation. In summary, personality traits can act as solid predictors of public service motivation Jang, Chyi-Lu. (2012).

Perry's (2000) process theory of Public Service Motivation also emphasizes that personal characteristics are an integral part of public service employee motivation and directly influence employee public service. All areas of process theory essentially define a person's character and are antecedents of public service motivation, thus affecting workplace performance directly.

### **3. RESEARCH HYPOTHESIS**

**Hypothesis 1:** Openness personality is positively and significantly related to public service motivation.

**Hypothesis 2:** Conscientiousness personality is positively and significantly related to public service motivation.

**Hypothesis 3:** Personality Neuroticism positively and significantly associated with public service motivation.

**Hypothesis 4:** Extraversion personality positively and significantly correlates with public service motivation.

**Hypothesis 5:** Personality Agreeablenes positively and significantly correlates with public service motivation.

### 4. MATERIALS AND METHODS

#### Variables and measures

A self-assessment questionnaire was developed after consulting with experts in the field of education. After completing the questionnaire, we conducted a survey and analyzed the trial with adjustment. The questionnaire consists of three parts: a survey of population information, including gender, age, and education. The questionnaire on personality traits (Big Five) was used a questionnaire of (John & Srivastava, 1999) including five dimensions including Extraversion (6 items), Agreeableness (7 items), Conscientiousness (9 items), Neuroticism (8 items), and Openness (10 items). The questionnaire about Public Service Motivation has used a questionnaire of (Kim et al., 2012) consisting of 5 dimensions including Attraction to Public Participation (7 items), Public Interests (4 items), Public Values (9 items), Compassion (6 items), items) and Self-Sacrifice (7 items). Each item is measured on a 5-point Likert scale (Disagree strongly = 1; Disagree a little = 2; Neither agree nor disagree =3; Agree a little = 4; Agree Strongly =5). Questions marked "R" (denotes reverse-scored items) are scored in reverse. The questionnaire was translated into Vietnamese based on specialists in linguistics, psychology, and administrative studies. The male Vietnamese questionnaire was adjusted three times the pilot survey.

### **5. DATA COLLECTION**

The design used for the study is a cross-sectional survey design that aims to measure and verify the independent variables (Big Five) related to the dependent variables (Public Service Motivation). The study was conducted at local administrative offices in the North of Vietnam and Hanoi city in August 2019. Intentional sampling method. Collect data through the survey

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with 650 votes. Respondents mark items with a pencil on the appropriate options in the questionnaire. Collected data were analyzed using SPSS 2.0 and SPSS AMOS 2.0 software. One hundred fifty faulty questionnaires should be discarded. Only 500 questionnaires (n=500) remained for analysis. Demographic information, including gender and previous living abroad status, is described in Table 1.

	Items		Ge	nder		Total	Percenta
		Male	%	Female(	%		ge
		<i>(n)</i>		<i>n</i> )			
	from 24-34 years old	100	20	63	12.6	163	32.6
1 30	from 35 to 44 years old	51	10.2	38	7.6	89	17.8
Age	from 45 to 55 years old	48	9.6	33	6.6	81	16.2
	Over 55 years old	89	17.8	78	15.6	167	33.4
	High school or less	51	10.2	42	8.4	93	18.6
Educatio	Bachelor or technical	103		$(\mathbf{c})$		165	
n	degree	105	20.6	62	12.4	105	33
	Honours or higher	134	26.8	108	21.6	242	48.4
Position	Staff	184	36.8	130	26	314	62.8
FUSICIOII	Manager	104	20.8	82	16.4	186	37.2

### **Table 1. Frequency analysis**

#### 6. RESULTS

*Reliability analys* 

Table 2 shows that the Cronbach's Alpha coefficients of all items are more significant than 0.7, thus qualifying for the analysis of the following steps (Hair, Black, Babin, & Anderson, 2010). Good Composite Reliability for a structure is defined with five to eight items to meet the minimum threshold of 0.80 (Raykov, 1997; Brunner & Süß, 2005). Table 2 shows that (item Agreeableness has aggregate confidence = 0.799, approximately = 0.8), the remaining items have aggregate confidence greater than 0.8. Thus, the items in table 2 all meet the requirements to analyze the next steps. The threshold for accepting variance extracted (Average Variance Extracted) of items greater than 0.50 is satisfactory (Hair, Black, Babin, & Anderson, 2010; Cortina, 1993). Table 2 shows that the extracted variance of the items Extraversion, Agreeableness, Conscientiousness, Neuroticism, Openness has composite confidence < 0.5 but combined reliability of these items > 0.6 is still acceptable for subsequent steps analysis followed (Fornell & Larcker, 1981). The remaining items with extracted variance > 0.6 satisfy the requirement for further analysis.

	Average Variance	Composite	
factors	Cronbach'salpha	Extracted	Reliability
Extraversion	0.805	0.409	0.806
Agreeablenes	0.799	0.400	0.799
Conscientiousnes	0.867	0.421	0.867

 Table 2. Reliability analys

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Neuroticism	0.819	0.394	0.820
Openness	0.861	0.408	0.861
APP	0.937	0.681	0.937
CIP	0.896	0.684	0.897
CPV	0.956	0.710	0.957
СОМ	0.933	0.702	0.934
SS	0.943	0.703	0.943

### Factor analys

The condition for exploratory factor analysis is to satisfy the following requirements: Factor loading >  $0.5.0.5 \le \text{KMO} \le 1$ : KMO coefficient (Kaiser-Meyer-Olkin) is the index used to consider the appropriateness of factor analysis (Cerny & Kaiser, 1977; Kaiser, 1974). Table 3 shows that the Bartlett test has statistical significance (Sig.=0.00), coefficient KMO=0.959. The large KMO coefficient means that factor analysis is appropriate. Bartlett test has statistical significance (Sig. < 0.05). If this test is statistically significant (Sig. < 0.05), the observed variables are correlated in the population. Thus, the variables are valid for factor analysis (Snedecor, George, Cochran & William, 1989). Table 4 shows that the Extraction Sums of Squared Loadings of 5 factors = 62.848 % are valid (Hair, 2014). Initial Eigenvalues of 5 factors = 1,902 (greater than 1.40) are valid (Smith & Miao, 1994).

### Table 3.KMO and Bartlett's Test

KMO and Bartlett's Test								
Kaiser-Meyer-Olkin M Adequacy.	.959							
Doutlatt's Test of	Approx. Chi-Square	21350.905						
Bartlett's Test of	df	2415						
Sphericity	Sig.	.000						

Factor loading (factor loading factor or factor weight) is the criterion to ensure the practical significance of factor analysis: Factor loading > 0.3 is considered to be the minimum level; Factor loading > 0.4 is considered necessary; Factor loading > 0.5 is considered to be of practical significance. Table 5 shows that the factor loading of all variables is more significant than 0.5, which means that the factor analysis is valid (Hair, Anderson, Tatham, & Black, 1998). **Table 4. Total Variance Explained** 

Compone	Initial Eigenvalues			Extraction Sums of			Rotation Sums of Squared			
nt				Squared Loadings			Loadings			
	Total	% of	Cumulat	Total % of Cumulat		Total	% of	Cumulati		
		Varianc ive %			Varian	ive %		Varian	ve %	
		e			ce			ce		
1	21.080	30.115	30.115	21.080	30.115	30.115	6.671	9.530	9.530	

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2	3.624	5.177	35.292	3.624	5.177	35.292	5.119	7.313	16.843
3	2.907	4.153	39.445	2.907	4.153	39.445	4.934	7.049	23.891
4	2.835	4.050	43.494	2.835	4.050	43.494	4.705	6.721	30.613
5	2.701	3.859	47.353	2.701	3.859	47.353	4.704	6.721	37.333
6	2.445	3.493	50.846	2.445	3.493	50.846	4.419	6.312	43.646
7	2.026	2.894	53.740	2.026	2.894	53.740	3.536	5.052	48.698
8	2.000	2.857	56.597	2.000	2.857	56.597	3.226	4.608	53.306
9	1.855	2.650	59.247	1.855	2.650	59.247	3.123	4.461	57.767
10	1.737	2.482	61.729	1.737	2.482	61.729	2.774	3.962	61.729
Extraction	Method: P	rincipal Co	mponent .	Analysis.					

 Table 5. Rotated Component Matrix

					Com	ponent				
	1	2	3	4	5	6	7	8	9	10
CPV7	.812									
CPV4	.789									
CPV2	.783									
CPV6	.778									
CPV1	.776									
CPV5	.769									
CPV8	.769									
CPV9	.767									
CPV3	.764									
SS3		.787								
SS6		.778								
SS2		.777								
SS1		.776								
SS7		.770								
SS5		.754								
SS4		.746								
APP1			.782							
APP7			.776							
APP6			.776							
APP3			.746							
APP4			.746							
APP2			.739							
APP5			.713							
Openness2				.659						
Openness5				.657						
Openness4				.632						
Openness3				.632						

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Openness7	.629					
Openness8	.626					
Openness1	.621					
Openness9	.598					
Openness10	.553					
Conscientiou		<i>cc</i> 1				
snes3		.661				
Conscientiou		(1)				
snes9		.642				
Conscientiou		.639				
snes2		.039				
Conscientiou		.638				
snes7		.038				
Conscientiou		.630				
snes8		.030				
Conscientiou		.623				
snes4		.023				
Conscientiou		.623				
snes6		.023				
Conscientiou		.621				
snes1		.021				
Conscientiou		.613				
snes5		.015				
COM4			.803			
COM6			.800			
COM1			.786			
COM2			.779			
COM5			.762			
COM3			.750			
Neuroticism8				.687		
Neuroticism7				.673		
Neuroticism6				.635		
Neuroticism3				.611		
Neuroticism1				.588		
Neuroticism2				.575		
Neuroticism5				.573		
Extraversion6					.677	
Extraversion3					.670	
Extraversion1					.669	
Extraversion4					.626	
Extraversion2					.599	
Extraversion5					.595	

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A 11									
Agreeablenes 2								.678	3
Agreeablenes 1								.653	3
Agreeablenes 7								.650	)
Agreeablenes 3								.628	3
Agreeablenes 5								.617	7
Agreeablenes 4								.600	5
CPI4									.783
CPI2									.778
CPI3									.721
CPI1									.717
	Extraction Method: Principal Component Analysis. Rotation Method: Varimax with Kaiser Normalization.								
a. Rotation cor	a. Rotation converged in 7 iterations.								

### Structural Equation Modeling (SEM)

The SEM model is an extension of the general linear model (GLM) that allows the researcher to test a set of regression equations simultaneously. The SEM model combines all the techniques such as multivariate regression, factor analysis, and correlation analysis (between elements in the network diagram) to check the complex relationship fit in the model. Unlike other statistical techniques that only allow estimation of the partial relationship of each pair of factors (elements) in the classical model (measurement model). SEM allows the simultaneous estimation of the elements in the model overall, estimate the causal relationship between the latent concepts (Latent Constructs) through indicators that combine both measurement and structure of the theoretical model, measure the stable relationships (recursive) and non-recursive, measuring direct and indirect effects, including measurement error and residual correlation. With the confirmatory factor analysis (CFA) technique, the SEM model allows the flexibility to find the most suitable model in the proposed models (Crowley & Fan, 1997; Kline, 2011; Nachtigall, Kroehne, Funke, & Co. Steyer, 2003; Raykov & Marcoulides, 2006; Ullman, 2006; Widaman & Thompson, 2003).

To evaluate the fit of the SEM model, the Chi-Square ( $\chi 2$ ) testing, Root-Mean-Square Error of Approximation (RMSEA) (Browne & Cudeck,1993) procedure together with the confidence interval, standardized-root-mean, is required square residual (SRMR), Tucker-Lewis Index (TLI) (Tucker & Lewis, 1973), and Comparative Fit Index (CFI) (Bentler, 1990) were reported. It is suggested that a good fitting model should have values of CFI and TLI  $\geq$  .90, RMSEA, and SRMR  $\leq$  .08 (Browne & Cudeck, 1993; Byrne, 1989; Hu & Bentler, 1999; Kline, 2011).

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The results of SEM analysis show that openness personality has a positive and significant relationship with Attraction to Public Participation (regression Weights = 0.179 and reliability p-value = 0.056), with Public Interests (coefficient). Regression Weights = 0.229 and reliability p-value = 0.000), with Public Values (coefficient of Regression Weights = 0.174 and reliability p-value = 0.012), with Compassion (coefficient of Regression Weights = 0.275 and reliability p-value p-value = 0.012) -value = 0.000), and with Self-Sacrifice (Regression Weights = 0.267 and confidence p-value = 0.000). Thus, the hypothesis (Hypothesis 1: Openness personality positively and significantly related to public service motivation) is accepted (Table 6).

Conscientiousnes personality has no positive and significant association with Attraction to Public Participation (Regression Weights = 0.125 and reliability p-value = 0.069), no positive and significant association with Public Participation Interests (Regression Weights = 0.16 and confidence p-value = 0.013), positively and significantly associated with Public Values (Regression Weights = 0.241 and confidence p-value = 0.000), not related Positive and significant with Compassion (Regression Weights = 0.068 and reliability p-value = 0.348), not positively and significantly associated with Self-Sacrifice (Regression Weights = 0.079 and reliability p-value = 0.277). Thus, the hypothesis (Hypothesis 2: Conscientiousnes personality positively and significantly related to public service motivation) is not accepted (Table 6).

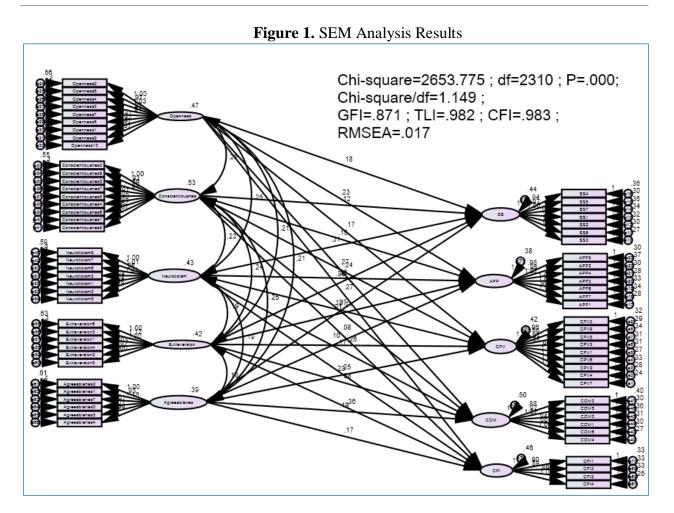
Neuroticism personality has a positive and significant relationship with Attraction to Public Participation (Regression Weights = 0.314 and reliability p-value = 0.000), with Public Interests (Regression Weights = 0.356 and reliability). p-value = 0.000), with Public Values (Regression Weights = 0.207 and reliability p-value = 0.005), with Compassion (Regression Weights = 0.175 and reliability p-value = 0.031), and with Self-Sacrifice (regression Weights = 0.25 and p-value = 0.002). Thus, the hypothesis (Hypothesis 3: Personality Neuroticism is positively related and meaningful to public service motivation) is accepted (Table 6).

Extraversion personality has a positive and significant relationship with Attraction to Public Participation (Regression Weights = 0.394 and confidence p-value = 0.000), with Public Interests (Regression Weights = 0.206 and confidence). p-value = 0.003), with Public Values (Regression Weights = 0.26 and reliability p-value = 0.000), with Compassion (Regression Weights = 0.382 and reliability p-value = 0.031), and with Self-Sacrifice (regression Weights = 0.365 and reliability p-value = 0.002). Thus, the hypothesis (Hypothesis 4: Extraversion personality positively and significantly related to public service motivation) is accepted (Table 6).

Agreeablenes personality has no positive and significant relationship with Attraction to Public Participation (Regression Weights = 0.116 and confidence p-value = 0.151), with Public Interests (Regression Weights = 0.095 and confidence level = 0.151) reliability p-value = 0.205), with Public Values (regression Weights = 0.231 and reliability p-value = 0.003), with Compassion (regression Weights = 0.188 and reliability p-value = 0.028), and with Self-Sacrifice (regression Weights = 0.172 and confidence p-value = 0.045). Thus, the hypothesis (Hypothesis 5: Personality Agreeablenes positively and significantly related to public service motivation) is not accepted (Table 6).

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### **Table 6. Regression Weights**

			Estimate	S.E.	C.R.	Р	
SS	<	Openness	.179	.072	2.469	.014	accept
APP	<	Openness	.229	.068	3.358	***	accept
CPV	<	Openness	.174	.070	2.500	.012	accept
COM	<	Openness	.275	.077	3.548	***	accept
CPI	<	Openness	.267	.077	3.460	***	accept
SS	<	Conscientiousnes	.125	.069	1.820	.069	Not accept
APP	<	Conscientiousnes	.160	.064	2.497	.013	accept
CPV	<	Conscientiousnes	.241	.067	3.621	***	accept
COM	<	Conscientiousnes	.068	.072	.939	.348	Not accept
CPI	<	Conscientiousnes	.079	.072	1.088	.277	Not accept
SS	<	Neuroticism	.314	.078	4.014	***	accept
APP	<	Neuroticism	.356	.074	4.805	***	accept
CPV	<	Neuroticism	.207	.074	2.801	.005	accept

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COM	<	Neuroticism	.175	.081	2.160	.031	accept
CPI	<	Neuroticism	.250	.082	3.071	.002	accept
SS	<	Extraversion	.394	.078	5.067	***	accept
APP	<	Extraversion	.206	.070	2.952	.003	accept
CPV	<	Extraversion	.260	.072	3.585	***	accept
COM	<	Extraversion	.382	.082	4.682	***	accept
CPI	<	Extraversion	.365	.081	4.505	***	accept
SS	<	Agreeablenes	.116	.081	1.435	.151	Not accept
APP	<	Agreeablenes	.095	.075	1.268	.205	Not accept
CPV	<	Agreeablenes	.231	.079	2.930	.003	accept
COM	<	Agreeablenes	.188	.086	2.190	.028	accept
CPI	<	Agreeablenes	.172	.086	2.005	.045	accept

The model test coefficients do not satisfy the standard requirements of the SEM model (Figure 2): Chi-square = 2653.775; Df = 2310; P-value = 0.000 (P-value > 0.05); Chi-square/df = 1.149; GIF = 0.871 (GIF>0.9); TLF = 0.928; RMSEA = 0.014 (Browne & Cudeck, 1993; Tucker & Lewis, 1973; Bentler, 1990; Browne & Cudeck, 1993; Byrne, 1989; Hu & Bentler, 1999; Kline, 2011).

#### 7. DISCUSSION

#### Key findings

Firstly, this study shows that open personality has a positive and significant association with Attraction to Public Participation, Public Interests, Public Values, Compassion, Self-Sacrifice. This result is similar to the finding of Openness to Experience personality positively affecting Public Values (Arjen van Witteloostuijn, Marc Esteve, & George Boyne, 2017). Similarly, the author (Jang & Chyi-Lu, 2012) found that Openness to experience personality is positively related to the variables of public service motivation. Meanwhile, this researcher found that open personality does not affect Attraction to Public Participation and Public Interests (Arjen van Witteloostuijn, Marc Esteve, & George Boyne, 2017).

Second, this study found that Conscientiousness personality has no positive and meaningful association with Attraction to Public Participation, Public Interests, and Self-Sacrifice, positive and meaningful association with Compassion and Public Values. This finding is similar to Jang, Chyi-Lu (2012) finding that personality Conscientiousness is positively related to commitment to the public interest, compassion, and self-sacrifice. Nevertheless, this finding contrasts with the finding of (Arjen van Witteloostuijn, Marc Esteve, & George Boyne, 2017), that personality Conscientiousness personality did not affect Attraction to Public Participation and Public Interests (Arjen van Witteloostuijn, Marc Esteve, & George Boyne, 2017).

Third, research shows that personality Neuroticism has a positive and meaningful association with Attraction to Public Participation, Public Interests, Public Values, Compassion, Self-

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Sacrifice. This finding contradicts the findings of (Arjen van Witteloostuijn, Marc Esteve, & George Boyne, 2017) that Neuroticism personality does not affect Attraction to Public Participation and Public Interests. Alternatively, the finding of (Jang & Chyi-Lu, 2012) is that personality Neuroticism is negatively related to commitment to the public interest and compassion but positively related to attraction to policymaking.

Fourth, this study shows that Extraversion personality has a positive and significant association with Attraction to Public Participation, Public Interests, Public Values, Compassion, Self-Sacrifice. This finding contradicts (Arjen van Witteloostuijn, Marc Esteve, & George Boyne, 2017) that Extraversion personality does not affect Attraction to Public Participation and Public Interests. This finding is similar to the finding of (Jang & Chyi-Lu, 2012) that Extraversion personality is positively related to attraction to policymaking. Extraversion personality is negatively related to self-sacrifice.

Fifth, this study shows that Agreeableness personality has no positive and significant association with Self-Sacrifice, Attraction to Public Participation, but the positive and meaningful influence on Public Interests, Compassion, and Public Values. This finding is similar to the finding of (Jang & Chyi-Lu, 2012) that personality Agreeableness is positively related to compassion. Similar to the finding of (Arjen van Witteloostuijn, Marc Esteve, & George Boyne, 2017), Agreeableness personality has no positive and significant association with Attraction to Public Participation.

The different findings of this study compared with other previous studies may be due to differences in research contexts, characteristics of respondents, and different cultures. It can be said that the relationship between personality traits and public service motivation is difficult to predict. However, it has been found that personality has a direct and close relationship with positive or negative public service motivation with different dimensions depending on the research context and the cultural characteristics of the survey subjects.

### Implications

Aspects of public service motivation are strongly related to personality trait dimensions. As a result, human resource policy-making and recruitment agencies increase awareness of different personality traits and their links to different aspects of public service motivation. Such an understanding can be beneficial in making hiring decisions in public organizations. For a human resources manager, identifying potential candidates (or current employees) who demonstrate qualities like aspects of public service motivation can be helpful in the hiring process and the hiring process. their advancement in the future.

Such knowledge can be helpful to both public and private sector organizations to make training and development decisions for public service employees. Specific training programs may be based on personality traits and their relationship to aspects of the employee's public service motivation. This knowledge is also helpful to individuals in their career orientation whether or not to choose a career in public service based on personality characteristics and public service motivation to ensure that it is suitable for them to merge with future work.

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### Limitations

Although this study has contributed to knowledge about public service dynamics and its relationship with aspects of the Big five as with other empirical studies, there are limitations to this study that should be considered when discussing the results. First, our survey method reflects the respondents' subjective perception of the questions being investigated. Subjective data has some inherent disadvantages that are hard to avoid in surveys (Pakpour, Gellert, Asefzadeh, Updegraff, Molloy & Sniehotta, 2016). Our data is collected over a single period of time. Crosssectional data periodically assess changes in students' intentions and related behaviors regarding their college admissions, which may affect their applicability (Xin Z, Liang M, Zhanyou W & Hua X, 2019).

The population size for this study was demarcated (only employees in local government administrative agencies were surveyed), so the results may not be generalizable to both the public and private sectors, central government, and demographics. In addition, the questionnaire used to assess the personality and motivational aspects of public service translated from English into Vietnamese is influenced by the subjective factors of the translator, which more or less affects the truth of the research results.

### 8. CONCLUSIONS

Personality traits can act as solid predictors of public service motivation (Jang & Chyi-Lu, 2012). Public service motivation also has a significant direct relationship with the Big Five to a large extent (Jang, 2012). Public service motivation has a significant and robust relationship with personality types in both positive and negative directions, which is not affected even, depending on the particular context. Eysenck, 1997). Personality traits are an integral part of public service motivation, directly influencing public service motivation differently. Defining personality is an antecedent of public service motivation, thus affecting workplace performance directly.

Employees in public service, like employees in other fields, are attracted to pay and other incentives. This study only focuses on exploring the relationship between personality traits concerning aspects of public service motivation. Some other factors have been overlooked, such as salary, material incentives, job characteristics, promotion opportunities, organizational culture; future studies should also assess the impact of these factors. Additional factors were not included in our analysis. Our study was conducted in a Vietnamese cultural context. Studying in other cultural contexts and drawing generalized conclusions by research develops a different research paradigm (Sun, Fang, Lim & Straub, 2012).

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