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RELATE BETWEEN CHARACTERISTICS AND CITIZEN'S SATISFACTION FOR PUBLIC SERVICES: CASE IN VIETNAM

Dr. Phuong Huu Tung Main Lecturer, Hanoi University of Home Affair, Hanoi city, Vietnam

Dr. Nguyen Nghi Thanh

Deputy Editor-in-Chief of the Journal of Home Affair, Hanoi University of Home Affair, Hanoi city, Vietnam

Abstract

Improving the quality of public services to meet people's satisfaction has made governments more aware of the need to provide public services following public needs and preferences. Most of the previous studies used qualitative methods to assess people's satisfaction with public services. The authors use a quantitative research method to explore the quality of public services in Vietnam using the SERVQUAL model and explore the relationship between personality traits and satisfaction with public services. The study was conducted in one-stop rooms in Hanoi city in June 2019, using a deliberate sampling method. Collect data through a survey of 500 votes, of which 350 are valid for citizens. The results of analysis by SEM model show all five factors of personality traits: Openness, Conscientiousness Neuroticism; extraversion; Greeablenes have a positive and significant effect on the remaining five factors through 2 coefficients, Regression Weights and P-value, both have reliable values. The conclusions of this study provide valuable data for Government policymakers.

Keywords: Personality traits, Citizen satisfaction, Public service, Vietnam.

Introduction

To measure the quality of public services, researchers have advocated using the Servqual Model (Wisniewski & Donnelly, 1996; Rowley, 1998; Wisniewski, 2001; Brysland & Curry, 2001). Brysland & Curry (2001) states that the literature supports using the Servqual Model in the public sector. In addition, Caron & Giauque (2006) point out that public sector employees face new professional challenges arising from introducing new principles and tools inspired by the transition of new public management. Studies on the relationship between personality characteristics and people's satisfaction with public services have also recently appeared (Kim et al., 2016; Castillo, 2017; Ciunova, 2019).

In Vietnam, public services include three types: public services in non-business, public services in the field of public utilities and public services in state administration, also known as public administrative services (Thanh, 2014). Public services, including activities that provide essential social welfare for people such as education, culture, science, health care, sports, insurance, social security. The current trend in the world is that the State only performs public services that society cannot or does not want to do, transferring part of this type of public service to the private sector and the public social organization (Dong, 2017).

In Vietnam so far, there have been quite a few studies on the theory and practical application of public service evaluation from large to small scale. On a national scale, there are provincial

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competitiveness indexes (PCI), administrative reform index (PAR), provincial public administration and governance performance index (PAPI), satisfaction index on administrative services (SIPAS),...(Le, 2016). These indicators are calculated annually and organized on a large scale, which is meaningful and plays an essential role in the general assessment of public administrative services, but only used to determine at the provincial level or higher. With rather cumbersome questionnaires, most of the methods of calculation and analysis are complicated and expensive and cannot be widely applied for the provinces to calculate and evaluate themselves on a small scale. The narrow range includes departmental, sectoral and local competitiveness index (DDCI). It is an index developed from the PCI Provincial Competitiveness Index; the object of the study is businesses, intending to evaluate the operation of local governments and departments during the year. Several foreign organizations such as Oxfam have also funded and piloted several grassroots public service quality assessment projects in Vietnam. However, these pilot projects have not been widely deployed, are unstable, and have some limitations in the implementation process and the calculation and analysis of the results (Le, 2016).

At present, there are few quantitative studies on people's satisfaction with public services. In the past ten years, such as Vo's Research (2011), public studies measure satisfaction with public administrative services at the People's Committee of District 1, HCMC. Ho Chi Minh City shows people's satisfaction with public administrative services at the People's Committee of District 1, Ho Chi Minh City. Ho Chi Minh City is influenced by four critical factors: procedures, serviceability, reliability, facilities. Meanwhile, Nguyen (2014) conducted a study on people's satisfaction with public administrative services at the People's Committee of Dak Ha District, Kon Tum province. Research shows six factors affecting people's satisfaction with public administrative services: Reliability, process, procedures, staff, cost and time, facilities, care and support for people. Nguyen & Quang (2015) explores three factors affecting people's satisfaction with the OSS mechanism: (1) Reflection and tangible means; (2) Quality of human resources; (3) Process of handling the application. In particular, the quality of human resources is the factor that has the most substantial impact on people's satisfaction. Ngo (2016) explores six factors affecting people's satisfaction with the quality of public administrative services: Facilities, reliability, staff capacity, service attitude, empathy, Procedures. Vo (2016) when assessing people's satisfaction with tax administrative procedures. The author has discovered seven factors that positively affect people's satisfaction: facilities, transparency, service capacity, responsiveness, reliability, democratic fairness, and openness. Empathy affects the satisfaction of taxpayers, in which reliability has the highest impact on the satisfaction of taxpayers

Thus, quantitative studies exploring the quality of public services in Vietnam using the Servqual Model and exploring the relationship between personality traits and satisfaction with public services are lacking. This study aims to complement the quantitative research on this issue and present the implications of the findings for the government.

Literature Reviews

Service quality

Service quality measures the extent to which the service provided matches the customer's expectations. Providing quality service means meeting customer expectations consistently (Lewis & Booms, 1983). Wisniewski defines *service quality* as the difference between the

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customer's expectations and the perceived service (Winiewski, 2001). Service quality is the extent to which a service meets customer expectations (Lewis & Mitchell, 1990; Dotchin & Oakland, 1994; Asubonteng et al., 1996; Wisniewski & Donnely, 1996). It can be concluded that service quality is the difference between service expectations and perceived service. If expectations are more remarkable than performance, perceived quality will be less satisfactory, and customer dissatisfaction occurs (Parasuraman et al., 1985; Lewis & Mitchell, 1990). Parasuraman, Zeithaml & Berry (1988) determined that service quality is the difference between expectations and perceptions. Therefore, it is easily measured by averaging the scores obtained from five quality factors (Brown, Churchill & Peter, 1992).

The most accepted model for measuring service quality is the Servqual Model (Parasuraman et al., 1985; Parasuraman et al., 1991; 1994). The Servqual Model is a multidimensional model used to measure the quality of any service provider organization. It was developed by (Parasuraman & Berry, 1988). This model was initially developed for the marketing sector, and it later proved to be adequate to determine the quality of other institutions such as hospitals, telecommunications, libraries, schools, colleges and many other media centers (Kettinger & Lee, 1994; Nitechi, 1996).

The Servqual Model includes factors (tangibles, reliability, responsiveness, empathy and assurance) (Rizwan & Hina, 2011). Consumers judge service quality by the gaps between their expectations from service providers and their experience. Table 1. Overview of items in the SERVQUAL model (Parasuraman et al., 1988)

Rate	Number of items in the Questionnaire	Definition
Reliability	5	Ability to perform promised services reliably and accurately
Assurance	4	Knowledge, courtesy of employees and their ability to convey trust and confidence
Tangibles	4	Appearance of facilities, equipment, personnel and communication materials
Empathy	5	Ability to provide personal attention and care to customers
Responsiveness	4	Willingness to help customers and provide service quickly

Critics of the Servqual model argue that the model is not universal (Vandamme & Leunis, 1993). They also say that the model cannot explain statistical, economic and psychological aspects (Francis, 1994). They say there is no evidence that customers claim service quality is the gap between their expectations and the perception of what they are getting from that particular organization. In addition, the entire model focuses on service delivery and not service outcomes (Francis, 1994).

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Public service and public service quality

Public services are entirely dependent on state finances and non-profit nature (Shaw, 2004). Improving the quality of public services stems from citizen participation in the public sector, stimulating greater transparency and allowing local people to assess the quality, adequacy and effectiveness of public services to express their needs and preferences. In addition, it helps them engage in innovative proposals to enable better use of public funds and improve service delivery (Ringold et al., 2013).

Public service quality is an elusive, ambiguous construct (Parasuraman et al., 1985; Gronroos, 1988, Gronroos, 1957). This challenge comes with a greater need to assess the quality of services in the public sector, especially given the implicit obligation of the public sector to ensure that services are delivered efficiently. The importance of public services should also be highlighted in the current study. Evaluating the quality of public services has an essential role in shaping the formulation and practice of policies and programs for the common good of citizens (Kumasey, 2014). In public sector organizations, providing customer service is one of the crucial factors contributing significantly to building a good reputation and reputation in the community (Nor et al., 2010).

As well as measuring service quality in general, the Servqual Model is also used to measure public service quality around the world. In Scotland, for example, Wisniewski et al. (1996) discussed the key issues that public sector organizations need to address in their search for an adequate measure of service quality, assessing potential functionality of the Servqual tool for the public sector and reports on its adoption for the public library service. In 2001, Maryland and Curry explained the new context in which public services are provided, emphasizing improving service quality. The Servqual tool was used in this study to improve both process management and strategic planning in the Northern Lanark Shire Council (Brysland & Curry, 2001). In Malaysia, Sharifuddin (1998) used the Servqual tool to measure service quality at ten public transport departments. Munhurrun et al. (2010) applied the Servqual tool to understand the level of service quality provided in Mauritian public services by investigating the match between customer expectations and employees' perceptions of customer expectations row.

Big Five personality traits

Personality is an individual psychological attitude that determines how individual acts and reacts to his environment. Personality is expressed in the individual's attitude system and in the will qualities of man. In other words, an individual's personality is a combination of psychological characteristics by which we can distinguish this individual from others. Several factors affect the formation of an individual's personality: congenital, genetic, nurturing, learning, socio-cultural environment, circumstances, situations. There are many models of personality research. The Big Five is an essential tool for assessing different aspects of a person's personality (Gerber et al., 2010). Psychologists suggest that personality can be summarized by five characteristics (John, Naumann & Soto 2008; McCrae & Costa 2008). Multiple methodological analyses have concluded that the Five characteristics capture vital dimensions of individual variation (John, Naumann, & Soto 2008; McCrae & Costa 2008).

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The five core traits are extroversion, agreeableness, openness, conscientiousness, and sensitivity (Gerber et al., 2010). The Big Five model has been 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 ideology (Carney et al., 2008; Jost, Nosek, & Gosling, 2008; Jost, 2006), politics (Hibbing, Ritchie, and Anderson 2011; Gerber et al., 2011; Mattila et al., 2011; Mondak & Halperin, 2008; Mondak, 2010; Mondak & Halperin, 2008).

The five personality traits 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 provide a compelling explanation of social attitudes and behaviour because they are internal to the individual, preceded by adult social experiences: it has a significant heritability (Medland & HHri, 2009; Yamagata et al., 2006). Personality stabilizes in adulthood (Caspi & Roberts, 2001; Hampson & Goldberg, 2006; Terracciano, McCrae & Costa, 2010). Personality traits are related to economic, social, and political attitudes and behaviours (Gerber et al., 2010, 2011; Mondak, 2010; Mondak & Halperin, 2008; Mondak et al., 2010).

In addition, five major personality factors have been studied to compare the suitability and decision of an individual's 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, quit, irresponsible, careless, negligent and impulsive behaviour at work (Jin, Watkins, & Yuen 2009).

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Trait	Characteristics associated with the trait
Extroversion Introversion	-Sociable, gregarious (vs. Reserved), assertive, talkative, active
Neuroticism Emotional Stability	-Anxious/nervous (vs. Relaxed), depressed, angry, embar- rassed, emotional, worried, insecure
Agreeableness Antagonism	-Courteous/considerate/kind (vs. Rude), flexible, trusting, good- natured, cooperative, forgiving, soft-hearted, tolerant
Conscientiousness Lack of Direction	Dependability: careful, thorough, responsible, organized, -planful volitional aspects: hardworking (vs. Lazy), achievement-oriented/effective, persevering
	-Imaginative, cultured, curious/eager for knowledge, original, broad-minded, intelligent, artistically sensitive

Table 1.The Big Five Personality Dimensions

(Source: Barrick and Mount (1991))

Relationship between big five and service satisfaction

Studies on the relationship between personality traits and customer satisfaction are mainly in the private sector. Anita Ciunova & Ekaterina Palamidovska (2009) link personality traits, influence, and customer satisfaction in a model that provides evidence-based insights into structural relationships between personality traits, influence and customer satisfaction. Furthermore, this is the first study to explore the relationship between personality traits, influence and customer satisfaction on retail banking customers in a developing country in the Balkans. Research in the retail sector in Beijing, China, Wang (2010) found a link between the role of personality traits on the relationship between customer satisfaction and loyalty in North China. Kinh, China. Specifically, consumer superiority is positively associated with cumulative loyalty, while Neuroticism consumer characteristics reduce the association between customer satisfaction and loyalty.

Siddiqui (2012) examined the relationship between personality factors and customer satisfaction with services. The author argues that most previous studies have been directed towards establishing a relationship between individual personality traits and purchasing behaviour or predicting sales of expensive items such as automobiles, which calculates Way is not the only influencing factor. Almost all previous research on personality traits and consumer decision-making has studied products, not services. The personality aspects agreeableness (humility, altruism) and trust were consistent in providing the utmost predictive power predicting customer satisfaction for the two services (Siddiqui (2012). In contrast, current research is aimed at customer satisfaction rather than purchasing behaviour; and constructs a conceptual framework for services rather than products. If they have high scores on most personality traits, service quality plays a lesser role in activating customer loyalty (Musatova et al., 2015). Empirical research has proven the hypothesis. that customer perceived satisfaction is related to personal characteristics. Exploring the interplay of personality traits, suitability, and satisfaction is

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essential for influencing customers' coffee. Kim et al. (2016) discovered that personality traits directly influence customer suitability and satisfaction, two factors that determine brand loyalty. Castillo (2017) investigated how consumer personalities tend to prioritize different aspects of the retail business environment. Most recently, studying current banking service users in Macedonia, Ciunova (2019) modelled personality traits, influence and satisfaction in banking services. The author discovered that people with neuroticism personalities positively influence, and extraversion personalities positively affect customer satisfaction. Castillo (2017) suggests that consumers associated with personality traits such as Openness, Conscientiousness and Agreeableness are the ones who will tend to feel more satisfied with the service. The personality traits conscientiousness and agreeableness demonstrate a strong relationship with customer satisfaction. Considering consumer satisfaction should consider focusing more on consumer personality traits (Anitsal & Anitsal, 2009; Mulyanegara, Tsarenko & Anderson, 2009; Rammstedt & John, 2007; Žabkar & Kolar, 2010).

Research hypothesis

Based on the analysis of the studies in the above sections, we propose the following research hypotheses:

H1. Openness has a positive and significant impact on five factors (reliability, assurance, intangibles, empathy, responsiveness).

H2. Conscientiousness has a positive and significant impact on five factors (reliability, assurance, intangibles, empathy, responsiveness)

H3. Extraversion has a positive and significant impact on five factors (reliability, assurance, intangibles, empathy, responsiveness).

H4. Agreeableness has a positive and significant impact on five factors (reliability, assurance, intangibles, empathy, responsiveness).

H5. Personality neuroticism has a positive and significant impact on five factors (reliability, assurance, intangibles, empathy, responsiveness)

Materials and methods

Variables and measures

A self-assessment questionnaire was built by translating the Servqual questionnaire and Big Five questionnaire from English to Vietnamese based on reference to experts in languages, economics and psychology. After completing the questionnaire, we conducted a survey and analyzed the trial with adjustment. The questionnaire was completed after four times of grammar corrections to suit Vietnamese people. The questionnaire consists of three parts: a survey of information on the population including gender, work area; The part of Servqual independent variables includes five factors including (tangibles, reliability, responsiveness, assurance and empathy) with 22 items (Parasuraman et al., 1985). Each item is measured on a 7-point Likert scale (Disagree strongly =1; Disagree a little = 2; Disagree somewhat =3; Neither agree nor disagree =4; Agree somewhat = 5; Agree a little = 6; Agree Strongly =7). Details are in Table 1.

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 Table 1. Servgual questionnaire

Tangibles	Disag disagi	ree so ree =4	omewh	at =3 e some	ther a	ttle = gree n ree a litt	
	1	2	3	4	5	6	7
P1.Public enterprise has modern looking equipment.							
P2. Public enterprise's physical facilities are visually appealing.	r						
P3. Public enterprise's reception desk employees are near appearing.	-						
P4.Materials associated with the service are visually appealing at public enterprises.	7						
Reliability							
P.5 When public enterprise promises to do something by a certain time, it does so.							
P.6 When you have a problem, public enterprise shows a sincere interest in solving it.	-						
P.7 Public enterprise performs the service right the first time.							
P.8 Public enterprise provides its service at the time it promises to do so.							
P.9 Public enterprise insists on error free records.							
Responsiveness							
P.10 Employees in public enterprise tell you exactly when the services will performed.							
P.11 Employees in public enterprise give you prompt service.							
P.12 Employees in public enterprise are always willing to help you.							
P.13 Employees in public enterprise are never to busy to respond to your request.							
Assurance							
P.18 Public enterprise gives you individual attention.							
P.14 The behavior of employees in public enterprise instills confidence in you.							
P.15 You feel safe in your transactions with public enterprises.							
P.16 Employees in public sector area consistently our teous with you.							
P.17 Employees in public enterprise have the knowledge to answer your questions.							
Empathy							
P.19 Public enterprise has operating hours convenient to all its customers.							

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P.20 Public enterprise has employees who give you personal attention.				
P.21 Public enterprise has your best interest at heart.				
P.22 The employees of public enterprise understand your specific needs.				

The dependent variables part includes five factors in the Big Five model (John & Srivastava, 1999): extraversion, agreeableness, conscientiousness, neuroticism and openness). 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). Items with the symbol "R" are swapped in reverse. Details are in Table 2.

I see Myself as Some	cone Who:	Disagree strongly =1; disagree a little = 2 neither agree nor disagree =3; agree a little = 4 agree Strongly =5							
		1	2	3	4	5			
Extraversion									
Extraversion1	Is talkative								
Extraversion2	Is reserved								
Extraversion3	Is full of energy								
Extraversion4	Generates a lot of enthusiasm								
Extraversion5	Tends to be quiet (R)								
Extraversion6	Has an assertive personality								
Agreeableness									
Agreeablenes1	Tends to find fault with others (R)								
Agreeablenes2	Is helpful and unselfish with others								
Agreeablenes3	Starts quarrels with others (R)								
Agreeablenes4	Has a forgiving nature								
Agreeablenes5	Is generally trusting								
Agreeablenes6	Can be cold and aloof (R)								
Agreeablenes7	Likes to cooperate with others								
Conscientiousness									
Conscientiousnes1	Does a thorough job								
Conscientiousnes2	Can be somewhat careless								
Conscientiousnes3	Is a reliable worker								
Conscientiousnes4	Tends to be disorganized								
Conscientiousnes5	Tends to be lazy								

Table 2. Big Five questionnaire

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Conscientiousnes6	Perseveres until the task is finished			
Conscientiousnes7	Does things efficiently			
Conscientiousnes8	Makes plans and follows through with them			
Conscientiousnes9	Is easily distracted			
Neuroticism			 	<u> </u>
Neuroticism1	Is depressed, blue			
Neuroticism2	Is relaxed, handles stress well (R)			
Neuroticism3	Can be tense			
Neuroticism4	Worries a lot			
Neuroticism5	Is emotionally stable, not easily upset			
Neuroticism6	Can be moody			
Neuroticism7	Remains calm in tense situations			
Neuroticism8	Gets nervous easily			
Openness		r	 	
Openness1	Is original, comes up with new ideas			
Openness2	Is curious about many different things			
Openness3	Is ingenious, a deep thinker			
Openness4	Has an active imagination			
Openness5	Is inventive			
Openness6	Values artistic, aesthetic experiences			
Openness7	Prefers work that is routine			
Openness8	Likes to reflect, play with ideas			
Openness9	Has few artistic interests			
Openness10	Is sophisticated in art, music, or literature			

("R" denotes reverse-scored items)

Data collection

The design used for the study is a cross-sectional survey design that aims to measure the relationship between individual personality factors (Big Five) and SERVQUAL factors. The study was conducted in one-stop rooms in Hanoi city in June 2019. Intentional sampling method. Collect data through a survey of 500 votes (n=350) for customers. Respondents mark items into the appropriate choices with a pencil. Collected data were analyzed using SPSS 2.0 and SPSS AMOS 2.0 software. Demographic information, including gender and previous living abroad status, is described in Table 3.

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		Gender						
Factors		Male (n)	%	Female (n)		Total	Percentage	
Education	High school or less	271	54.2	98	19.6	369	73.8	
	Bachelor or technical degree	47	9.4	49	9.8	96	19.2	
	Honours or higher	16	3.2	19	3.8	35	7	
Pooton	Public sector	64	12.8	58	11.6	122	24.4	
Sector	Private Sector	270	54	108	21.6	378	75.6	

Table 3. Frequency analysis

Results

Reliability analys

Table 4 shows that the Cronbach's Alpha coefficient of all items is more significant than 0.8, which is enough to analyze the following steps (Hair, Black, Babin, & Anderson 2010). Good Composite Reliability for a defined construct with five to eight items to meet the minimum threshold of 0.80 (Raykov 1997; Brunner & Süß 2005). Table 4 shows the items with aggregate confidence greater than 0.8. Thus, the items in the article are satisfactory to perform the analysis of 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 4 shows that items including (openness, conscientiousness, agreeableness and extraversion) with the extracted variance of approximately 0.5 are still acceptable because if Average Variance Extracted < 0.5, but composite reliability is higher than 0.6, the convergent validity of the construct is still adequate (Fornell & Larcker, 1981). The remaining items with extracted variance > 0.5 satisfy the requirements for the analysis of the next steps.

Factors	Average Variance Extracted	Cronbach's alpha	Composite Reliability
Openness	0.455	0.893	0.893
Conscientiousnes	0.482	0.893	0.893
Neuroticism	0.503	0.890	0.890
Agreeablenes	0.452	0.852	0.852
Extraversion	0.442	0.826	0.826
Assurance	0.778	0.946	0.946
Reliability	0.757	0.940	0.937
Tangibles	0.752	0.924	0.924
Empathy	0.761	0.927	0.927
Responsiveness	0.765	0.929	0.929

Table 4. Reliability analys

Factor analys

The condition for exploratory factor analysis is to satisfy the following requirements: Factor loading > 0.5. $0.5 \le \text{KMO} \le 1$: The KMO coefficient (Kaiser-Meyer-Olkin) is an index used to consider the adequacy of factor analysis (Cerny & Kaiser 1977; Kaiser, 1974). Table 5 shows that the Bartlett test has statistical significance (Sig. =0.00), coefficient KMO=0.965. The large

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KMO coefficient means that factor analysis is appropriate. Bartlett's test has statistical significance (Sig. < 0.00): This is a statistical quantity used to consider the hypothesis that the variables are not correlated in the population. 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 5 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 5. KMO and Bartlett's Test

KMO and Bartlett's Test								
Kaiser-Meyer-Olkin Measure	e of Sampling Adequacy.	.965						
	Approx. Chi-Square	19636.104						
Bartlett's Test of Sphericity	df	1891						
	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 important; Factor loading > 0.5 is considered to be of practical significance. Table 6 shows that the factor loading of all variables is greater than 0.5, which means that the factor analysis is valid (Hair, Anderson, Tatham, & Black, 1998). Table 5 shows that Extraction Sums of Squared Loadings = 64,286 means that the research data set has 64,286% of the variance explaining the study results. Initial Eigenvalues of 10 factors in the research model = 1,570 (>1) are valid.

 Table 6. Total Variance Explained

	Initial Di	~~~~		Extractio	n Sums	of Squared	Rotation	Sums	of Squared	
Compo	initiai Ei	genvalues		Loadings		_	Loadings			
nent	Total	1 % ofCumulative Total % ofCumulative		Total	%	ofCumulative				
	Va Va	Variance	%	TOtal	Variance	%	TOtal	Variance	%	
1	21.376	34.477	34.477	21.376	34.477	34.477	5.595	9.024	9.024	
2	2.682	4.325	38.802	2.682	4.325	38.802	5.304	8.555	17.579	
3	2.321	3.744	42.546	2.321	3.744	42.546	4.805	7.750	25.328	
4	2.238	3.610	46.155	2.238	3.610	46.155	4.062	6.552	31.880	
5	2.133	3.440	49.595	2.133	3.440	49.595	3.925	6.331	38.212	
6	2.089	3.369	52.964	2.089	3.369	52.964	3.703	5.973	44.185	
7	1.890	3.048	56.012	1.890	3.048	56.012	3.500	5.645	49.830	
8	1.789	2.886	58.898	1.789	2.886	58.898	3.025	4.878	54.708	
9	1.771	2.856	61.754	1.771	2.856	61.754	3.018	4.868	59.576	
10	1.570	2.532	64.286	1.570	2.532	64.286	2.920	4.710	64.286	
Extractio	on Metho	d: Principal	Component A	nalysis.	•	•	•	•		

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	Compo	nent								
	1	2	3	4	5	6	7	8	9	10
Openness1	.702									
Openness6	.668									
Openness8	.656									
Openness5	.640									
Openness9	.640									
Openness4	.635									
Openness2	.609									
Openness7	.601									
Openness10	.595									
Openness3	.581									
Conscientiousnes3		.707								
Conscientiousnes7		.666								
Conscientiousnes8		.658								
Conscientiousnes6		.655								
Conscientiousnes5		.653								
Conscientiousnes4		.651								
Conscientiousnes2		.628								
Conscientiousnes1		.620								
Conscientiousnes9		.618								
Neuroticism6		.010	.695							
Neuroticism4			.694							
Neuroticism7			.683							
Neuroticism5			.670							
Neuroticism2			.668							
Neuroticism3			.668							
Neuroticism1			.660							
Neuroticism8			.619							
Agreeablenes1			.017	.697						
Agreeablenes4				.687						
Agreeablenes6				.672						
Agreeablenes5				.664						
Agreeablenes3				.640						
Agreeablenes2				.620						
Agreeablenes7				.616						
Assurance4					.796					
Assurance2					.790					
Assurance5					.792					
Assurance3					.779					
Assurance1					.772					
Reliability4					.,,2	.768				
Reliability2						.760				
Reliability3						.754	_			+
Reliability5						.752				
Reliability1						.743				
Extraversion6						.,+5	.671			

Table 7. Rotated Component Matrix

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	Comp	Component									
	1	2	3	4	5	6	7	8	9	10	
Extraversion2							.662				
Extraversion4							.648				
Extraversion3							.645				
Extraversion1							.639				
Extraversion5							.635				
Tangibles4								.786			
Tangibles1								.785			
Tangibles2								.775			
Fangibles3								.757			
Empathy1									.782		
Empathy4									.781		
Empathy2									.780		
Empathy3									.742		
Responsiveness3										.778	
Responsiveness1										.759	
Responsiveness2										.745	
Responsiveness4										.740	
Extraction Method: F Rotation Method: Va											

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. The overall model estimates 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, a Chi-Square (χ 2) test, Root-Mean-Square Error of Approximation (RMSEA) procedure (Browne & Cudeck, 1993) together with a 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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			Estimate	S.E.	C.R.	Р	
Reliability	<	Openness	.202	.077	2.608	.009	accept
Assurance	<	Openness	.237	.084	2.816	.005	accept
Responsiveness	<	Openness	.291	.084	3.479	***	accept
Empathy	<	Openness	.300	.088	3.424	***	accept
Tangibles	<	Openness	.190	.084	2.262	.024	accept
Reliability	<	Conscientiousnes	.266	.073	3.632	***	accept
Assurance	<	Conscientiousnes	.359	.081	4.460	***	accept
Responsiveness	<	Conscientiousnes	.336	.079	4.248	***	accept
Empathy	<	Conscientiousnes	.345	.083	4.159	***	accept
Tangibles	<	Conscientiousnes	.278	.080	3.495	***	accept
Reliability	<	Neuroticism	.178	.068	2.629	.009	accept
Assurance	<	Neuroticism	.154	.073	2.095	.036	accept
Responsiveness	<	Neuroticism	.101	.072	1.405	.160	not accept
Empathy	<	Neuroticism	.108	.076	1.430	.153	not accept
Tangibles	<	Neuroticism	.166	.074	2.252	.024	accept
Reliability	<	Extraversion	.339	.076	4.446	***	accept
Assurance	<	Extraversion	.248	.081	3.053	.002	accept
Responsiveness	<	Extraversion	.298	.081	3.691	***	accept
Empathy	<	Extraversion	.267	.084	3.165	.002	accept
Tangibles	<	Extraversion	.256	.082	3.138	.002	accept
Reliability	<	Agreeableness	.221	.070	3.152	.002	accept
Assurance	<	Agreeablenes	.162	.076	2.146	.032	accept
Responsiveness	<	Agreeableness	.197	.075	2.630	.009	accept
Empathy	<	Agreeablenes	.169	.078	2.160	.031	accept
Tangibles	<	Agreeablenes	.235	.076	3.077	.002	accept

Table 7. Regression Weights

The results of SEM analysis (Table 7) show that openness has a positive and significant impact on Reliability (Regression Weights = 0.202 and p-value = 0.009). The factor openness has a positive and significant effect on assurance (Regression Weights = 0.37 and p-value = 0.000). The openness factor has a positive and significant impact on the responsiveness factor (Regression Weights =0.291 and p-value=000); The openness factor has a positive and significant impact on the empathy factor (Regression Weights =0.300 and p-value=000); The openness factor has a positive and significant impact on the intangibles factor (Regression Weights =0.190 and p-value=.024). With this result, hypothesis H1. Openness has a positive and significant impact on five factors (reliability, assurance, intangibles, empathy, responsiveness) that are accepted.

The conscientiousness factor positively and significantly impacts the reliability factor (Regression Weights =0.266 and p-value=000). The conscientiousness factor positively and significantly impacts the assurance factor (Regression Weights =0.359 and p-value=000). The conscientiousness factor has a positive and significant impact on the responsiveness factor (Regression Weights =0.336 and p-value=000); The conscientiousness factor has a positive and significant impact on the

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empathy factor (Regression Weights = 0.345 and p-value = 000); The conscientiousness factor has a positive and significant impact on the intangibles factor (Regression Weights =0.278 and p-value=000). With this result, hypothesis H2. Personality conscientiousness positively impacts the five accepted factors (reliability, assurance, intangibles, empathy, responsiveness).

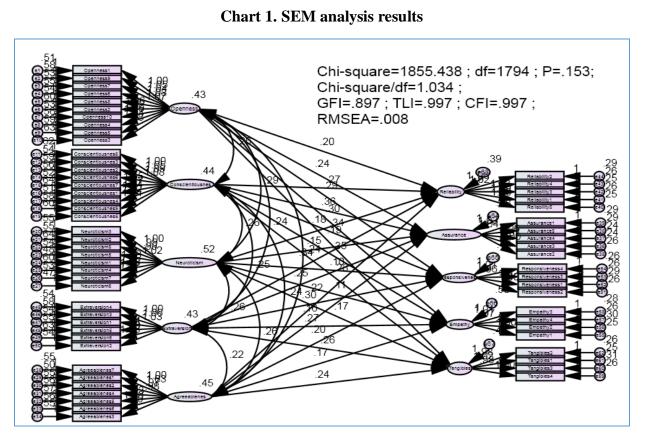
The neuroticism factor positively and significantly impacts the reliability factor (Regression Weights =0 .178 and p-value=0.009). The neuroticism factor had a positive and significant effect on the assurance factor (Regression Weights =0.154 and p-value=0.036). The neuroticism factor did not have a positive and significant effect on the responsiveness factor (Regression Weights =0.101 and p-value=0.160); The neuroticism factor did not have a positive and significant effect on the responsiveness factor (Regression Weights =0.101 and p-value=0.160); The neuroticism factor did not have a positive and significant effect on the responsiveness factor (Regression Weights =0.108 and p-value=0.153); The neuroticism factor has a positive and significant impact on the intangibles factor (Regression Weights =0.166 and p-value=0.024). Because neuroticism has no positive and significant effect on the responsiveness factor and neuroticism has no positive and significant impact on empathy, hypothesis H3. Extraversion positively impacts five factors (reliability, assurance, intangibles, empathy, responsiveness) that are not accepted.

The extraversion factor has a positive and significant effect on the reliability factor (Regression Weights =0.399 and p-value=000). The extraversion factor has a positive and significant effect on the assurance factor (Regression Weights =0.248 and p-value=0.002); The extraversion factor has a positive and significant impact on the responsiveness factor (Regression Weights =0.298 and p-value=000). The extraversion factor has a positive and significant impact on the responsiveness factor (Regression Weights =0.298 and p-value=000). The extraversion factor has a positive and significant impact on the empathy factor (Regression Weights =0.267 and p-value=0.002); The extraversion factor has a positive and significant impact on the empathy factor (Regression Weights =0.267 and p-value=0.002); The extraversion factor has a positive and significant impact on the empathy factor (Regression Weights =0.256 and p-value=0.002). With this result, hypothesis H4. Agreeableness has a positive and significant impact with five accepted factors (reliability, assurance, intangibles, empathy, responsiveness).

The agreeableness factor positively and significantly affects the reliability factor (Regression Weights =0.221 and p-value=0.002). The agreeableness factor has a positive and significant effect on the assurance factor (Regression Weights =0.162 and p-value=0.032). The factor agreeableness has a positive and significant impact on the responsiveness factor (Regression Weights =0 .197 and p-value=0.009); The agreeableness factor has a positive and significant impact on the empathy factor (Regression Weights =0.196 and p-value=0.031); The agreeableness factor has a positive and significant impact on the intangibles factor (Regression Weights =0.235 and p-value=0.002). With this result, hypothesis H5. Neuroticism has a positive and significant impact on five factors (reliability, assurance, intangibles, empathy, responsiveness) that are accepted.

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About model fit: Analysis results (Chart 1) for Mr. Chi-square=1855.438; Df=1794; P-value=0.153; Chi-square/df=1.034; GFI=0.879; TLI=0.997; CFI=0.997; RMSEA=0.008. Thus, all coefficients meet the requirements. Particularly for a GFI of approximately 0.9 is acceptable (Browne & Cudeck, 1993; Tucker & Lewis, 1973; Bentler, 1990; Browne & Cudeck, 1993; Byrne, 1989; Hu & Bentler 1999; Kline, 2011).

Comparing the Regression Weights coefficients in Table 7: it is found that the personality traits of openness, conscientiousness and extraversion all have a positive and significant impact on five factors (reliability, assurance, intangibles, empathy, responsiveness) in the SERVQUAL model in Moderate. At a low level, the agreeableness factor positively impacts the five factors (reliability, assurance, intangibles, empathy, responsiveness). Meanwhile, the neuroticism factor did not positively and significantly impact the five factors (reliability, assurance, intangibles, empathy, responsiveness).

Discussion

Key findings

Firstly, the study found a positive and significant relationship between openness personality for five factors (reliability, assurance, tangibles, empathy, responsiveness). This result is similar to the Castillo (2017) study in the private sector. The author believes that openness consumers show a strong relationship with service satisfaction. It means that people often focus on

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imagination and deep understanding and tend to be curious about everything around them, creative, and always ready to learn new things and practice. Focus on overcoming satisfaction challenges with public services in Vietnam (see also John, Naumann & Soto, 2008; McCrae & Costa, 2008); Barrick & Mount 1991).

Second, the study found that conscientiousness positively impacts five factors (reliability, assurance, intangibles, empathy, responsiveness). This result is similar to the study of Castillo (2017) in the private sector. The author suggests that consumers associated with conscientiousness personality traits will also tend to feel more satisfied with services, meaning that individuals with conscientiousness personality traits exhibit a strong relationship with conscientiousness Satisfaction for Castillo service (2017). People who are thoughtful, manage their anger, and have explicit goals are satisfied with public service in Vietnam (see also John, Naumann, & Soto 2008; McCrae & Costa, 2008; Barrick &Mount, 1991).

Third, the study found how extraversion has a positive and significant impact on five factors (reliability, assurance, intangibles, empathy, responsiveness). This result is similar to the study of banking services in Macedonia by Ciunova (2019). The author discovered that extraversion personality positively affects customer satisfaction Ciunova (, 2019). People who feel comfortable and energetic when participating in social activities, enjoy being the center of attention, active when in social relations are satisfied with public services in Vietnam (John, Naumann & Soto, 2008; McCrae & Costa, 2008; Barrick & Mount 1991).

Fourth, the study finds how agreeableness has a positive and significant impact on five factors (reliability, assurance, tangibles, empathy, responsiveness). It means that people with trust, altruism, kindness, and understanding are the essential characteristics of pleasantness, friendliness, cooperation and enthusiasm, and are satisfied with public services in Vietnam. This result is similar to the study of Siddiqui (2012). The author argues that the personality dimensions agreeableness (humility, altruism, and trust) consistently provide the main predictive power of predicting customer satisfaction for the two services (Siddiqui, 2012).). This result is similar to the study of Castillo (2017). The author suggests that consumers with agreeableness personality traits will tend to feel more satisfied with services and have a strong relationship with customer satisfaction (Castillo, 2017).

Fifth, contrary to the research hypothesis, neuroticism has no positive and significant impact on five factors (reliability, assurance, intangibles, empathy, responsiveness), so hypothesis H5 is not accepted due to neuroticism's impact on responsiveness empathy is not statistically significant. However, personality factor neuroticism has a positive and significant impact on reliability, assurance and intangibles factors. This study is similar to Wang's (2010) study in the retail sector in Beijing, China. The author found neuroticism to reduce the association between customer satisfaction and loyalty.

Implications

At all levels in Vietnam, governments and authorities should consider consumers' personality characteristics (people, businesses, socio-political organizations) about their satisfaction with services. In order to identify customer characteristics, customer personality data should be used as one of the variables as a basis for dividing the respective public service market and positioning the corresponding services. Not only that, the information about the customer's personality helps managers and public service organizations better describe their customer base.

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Limitations

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 subjective perception of the respondents towards 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. Moreover, cross-sectional data may affect the applicability of our results (Xin Z, Liang M, Zhanyou W & Hua X, 2019). So, Future research should combine cross-sectional and longitudinal studies. Another limitation is the language barrier. Although the method of translating the questionnaire from English to Vietnamese has been adjusted four times, there are still subjective attitudes of the translator. Therefore, it affects the perception and understanding of the respondents.

Conclusions

At all levels in Vietnam, governments and authorities should consider consumers' personality characteristics (people, businesses, socio-political organizations) about their satisfaction with services. In order to identify customer characteristics, customer personality data should be used as one of the variables as a basis for dividing the respective public service market and positioning the corresponding services. The information about the customer's personality helps managers and public service organizations. This research provides insight to public service management and organizations on how they can learn more about their clients, which will assist them in providing better service. How to address personality traits related to customer satisfaction, which could form a fundamental theme in the customer-oriented public service delivery process, could lead to a model-new to handling customer interactions.

It is the first study to explore the relationship between personality traits and guest satisfaction on public services in Vietnam. More similar studies are needed to fill the theoretical gap between personality traits and customer satisfaction.

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