Development of System Continuance Models for Assessing among Local E-Government in Indonesia

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- Keywords: Model development, system continuance, acceptance and use, expectation-confirmation model, successful model, local e-government.
- Abstract: This study reports how to combine technology acceptance and use models based on expectations and confirmations in the information system success model to objectively assess the continuance of local e-government based on the organizational perspective and perspective of users in Indonesia. The developed model is arranged in 11 variables and 48 indicators. Pathways of influence between variables are presented by 16 links. However, this study does have some limitations. With regard to the level of use, there is no fully mandatory use of the system, and not all UTAUT2 variables and the possibility of a moderator are integrated with the model. Other studies used various assumptions, methods, and different understandings can present different propositions. In addition, limitations can help to further study, especially the validity of the proposed model. Future research can explore additional expansion variables and moderators, so that in the new model between variables can be made more explicit relationships.

1 INTRODUCTION

The policy on the use of communication and information technology (ITC) in government processes (e-government) has encouraged in improving the efficiency, effectiveness, transparency and accountability of government administration (Indonesia, 2003; Sá, Rocha and Cota, 2016; Waller and Genius, 2015). E-government can increase the delivery of government services effectively and efficiently through ICT (Claver-Cortes, de Juana-Espinosa and Valdés-Conca, 2018; Waller and Genius, 2015; Yang and Rho, 2007), promote public administration (United Nations, 2014), and allow adjustments between the characteristics of public services and specificities in local communities (Sá, Rocha and Cota, 2016). Most developed countries benefit from e-government services (Lee, Tan and Trimi, 2005; Norris and Reddick, 2013; Roy, 2002), but there is still plenty of room for global improvement (United Nations, 2010; United Nations, 2016). On the other hand, most researchers are currently looking at the low level of implementation of e-government services in developing countries (Choi *et al.*, 2016; Dada, 2006).

The study of the success of e-government implementation leads to the success of IS applications (Rana et al., 2015). However, studies focus more on the supply side (organizational perspective) and ignore the demand side (user perspective). The local IS success indicator is a continuation of the IS initiative (Baker-Eveleth and Stone, 2015), even if in a customized form (Sá, Rocha and Cota, 2016). In the context of this research, the IS initiative is after the initial implementation of e-government at the central and regional governments (Altameem, Zairi and Alshawi, 2006; Sá, Rocha and Pérez Cota, 2016). The purpose of this study is to fill this gap by proposing a conceptual model. This research broadens knowledge and continues this tradition in relation to the relationship of factors that influence users to accept and use (Thomas, 2006; Venkatesh and Davis, 2000; Venkatesh et al., 2003; Venkatesh, Thong and Xu, 2012a) based on confirmation (Bhattacherjee, 2001; Zolotov et al., 2018) and uses

(Baker-Eveleth and Stone, 2015) of IS success (DeLone and McLean, 1992; Delone and McLean, 2003). The aim is to develop a more comprehensive model for measuring the continuation of egovernment in Local Government, by adopting, combining, and adapting (Subiyakto, 2017; Subiyakto and Ahlan, 2014) acceptance and use of technology (Venkatesh, Thong and Xu, 2012b), expectation-confirmation (Bhattacherjee, 2001), and success IS model (Delone and McLean, 2003). Following the research program mentioned above, two research questions were then proposed to guide the implementation of this exploratory research.

- RQ-1. How to understand the relationship between the constructs of the technology acceptance and use model, the expectation-confirmation model, and the IS success model?
- RQ-2. How to combine technology acceptance and use models and confirmationexpectation models in IS success models in the continuance of egovernment systems in Regional Government?

This paper is presented in five parts. Each section describes the research program from research, literature review, research method, result and discussion, and conclusions.

2 LITERATURE REVIEW

Local e-government services can be considered as an extension of central e-government services, but have a number of specificities that need to be emphasized (Holgersson et al., 2017; Sá, Rocha and Cota, 2016). In the context of research, a successful indicator of local e-government is a continuance of egovernment initiatives, even if in an adapted form, after the initial implementation of e-government at the central and local governments. In this way, researchers gather views on the determinants of success that are not biased by one point of view (Altameem, Zairi and Alshawi, 2006). The successful implementation of e-government in the long run (Baker-Eveleth and Stone, 2015) depends on the willingness of citizens and the government to adopt (Rana, Dwivedi and Williams, 2015; Wirtz and Daiser, 2016). In addition, the successful implementation of e-government is measured not only in the perceived quality of information systems but also in implicit comparisons with prior

expectations (Baker-Eveleth and Stone, 2015; Bhattacherjee, 2001; Zolotov *et al.*, 2018).

Although, the success model of DeLone and McLean IS (DeLone and McLean, 1992; Delone and McLean, 2003) is primarily used to assess the success of IS as mentioned in many studies. (Briggs et al., 2003; DeLone and McLean, 1992; Nguyen, Nguyen and Cao, 2015; Rana et al., 2015; Subiyakto et al., 2016a; Subiyakto et al., 2016b; Subiyakto et al., 2016c; Subiyakto et al., 2015a; Subiyakto et al., 2015b; Subiyakto et al., 2017). However, this model cannot support the relationship between system quality and perceived benefits (Nguyen, Nguyen and Cao, 2015; S., Olfman and Ryan, 2005). This model has not been able to evaluate factors related to egovernment that influence users to receive and use (Thomas, 2006) e-government in the long run (Baker-Eveleth and Stone, 2015). In addition, this model has not been able to measure citizen satisfaction based on confirmation and perceived usefulness (Bhattacherjee, 2001).

The DeLone and McLean IS success model (Delone and McLean, 2003) is very good for assessing the success of the system based on information quality (INQ), system quality (SYQ) and IS quality of service (SVQ) that affect user satisfaction (USF) and net benefits (NBF) from use of IS (Yousef). Meanwhile, the Unified Theory of Acceptance and Use of Technology (UTAUT) is a theoretical framework that is widely used to understand the adoption of users or the continuous use of new technologies (Venkatesh et al., 2003). This model was developed with four constructs from the acceptance and use of technology to assess society: performance expectations (PE), effort expectations (EE), social influence (SI), and facilitation conditions (FC). The UTAUT model is then extended to Model Extended UTAUT (UTAUT2) by adding three additional constructs: hedonic motivation (HM), price value (PV), and habit (HB) (Venkatesh, Thong and Xu, 2012a). The UTAUT2 does not focus more on the organizational context but emphasizes the context of consumer use, this is different from the previous technology acceptance model (Yuan et al., 2015).

The UTAUT2 model (Venkatesh, Thong and Xu, 2012a) is proposed to gain a better understanding of technology acceptance. However, the UTAUT2 acceptance model (Venkatesh, Thong and Xu, 2012b) can only be used to evaluate user acceptance of SI (Thomas, 2006). Whereas to analyze citizen satisfaction as a result of confirmation (CF) of the previous use (Yousef) of ICT and perceived usefulness, it is proposed to use the Expectation-

Confirmation Model (ECM) (Bhattacherjee, 2001). In our case, The ultimate goal of the ECM model is to explain the continuance of the e-government system (SYC) in the Regional Government.

On the other hand, e-government has become a major topic of interest for academics and practitioners (Almarabeh and AbuAli, 2010; Gil-García and Pardo, 2005; Rana, Dwivedi and Williams, 2015; Wirtz and Daiser, 2016). Although local e-government services can be considered as an extension of central e-government services, the first has a number of specificities that need to be emphasized (Holgersson et al., 2017; Sá, Rocha and Cota, 2016). To date, it cannot identify of continuance e-government evaluation models that are specifically focused on local e-Government in the Regional Government, and this justifies the development of a new model whose purpose is to create a model with this specificity (Sá, Rocha and Cota, 2016; Sá, Rocha and Pérez Cota, 2016).

3 RESEARCH METHOD

Development of a more comprehensive model to measure the success IS in the continuance of egovernment in this Regional Government (see Fig. 2), based on literature review (S1), then the development of models (S2) with model development steps (Subiyakto, 2017; Subiyakto and Ahlan, 2014), namely developing a set of assumptions (S2.1), adoption (S2.2), combining (S2.3), and adapting (S2.4) from acceptance and use of technology (Venkatesh, Thong and Xu, 2012b), expectation-confirmation (Bhattacherjee, 2001), and success IS model (Delone and McLean, 2003). Picture. 1 shows the sequential stages of the development model and its revision.

Table 1: List	of the	basic	models	and	theories
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List of the Basic Models and Theories	References
The updated DeLone and McLean IS success model	(Delone and McLean, 2003)
The extended the UTAUT model (UTAUT2)	(Venkatesh, Thong and Xu, 2012a)
The expectation-confirmation model (ECM)	(Bhattacherjee, 2001)
The IS project success model	(Subiyakto and Ahlan, 2014)

Following the set of assumptions developed (S2.1) in the study, this new model (see Figure 2),

based on (S2.2) previous works (Bhattacherjee, 2001; Delone and McLean, 2003; Venkatesh, Thong and Xu, 2012a) is conceptualized (S2.3 and S2.4). Table 1 represents the basic theory of model development.

Furthermore, the operationalization phase (S3) is carried out to be broken down into the level of research data collection instruments (Subiyakto, 2018; Subiyakto *et al.*, 2015c). Finally, the reporting phase (S4) is conducted to propose the model developed, in terms of conducting research.



Figure 1: The proposed research model.

4 RESULT AND DISCUSSION

The main objective of this research is to develop a more comprehensive model to measure the continuance of e-government in the regional government. This new model developed refers to a set of assumptions. First, the continuation of egovernment initiatives is an indicator of the success of local e-government. Delone and McLean (2003 stated the continuous use system (SYC) became a popular measure of success (Igbaria *et al.*, 1997; Larsen and Wetherbe, 1999; Taylor and Todd, 1995; Teng and Calhoun, 1996). Second, the successful implementation of e-government in the long run (Baker-Eveleth and Stone, 2015) depends on the willingness of citizens and the government to adopt (Rana, Dwivedi and Williams, 2015; Wirtz and Daiser, 2016); and (iii) the successful implementation of e-government is measured not only in the perceived quality of information systems, but also in implicit comparisons with prior expectations (Baker-Eveleth and Stone, 2015; Bhattacherjee, 2001; Zolotov *et al.*, 2018).



Figure 2: The proposed research model.

Referring to previous research (Altameem, Zairi and Alshawi, 2006; Baker-Eveleth and Stone, 2015; Bhattacherjee, 2001; Delone and McLean, 2003; Rana, Dwivedi and Williams, 2015; Subiyakto, 2017; Thomas, 2006; Venkatesh, Thong and Xu, 2012a; Wirtz and Daiser, 2016; Zolotov et al., 2018), the constructs of acceptance and use of technology. expectation-confirmation. and IS success was then adopted, combined and adapted by researchers in the development of models to assess factors that influence the user to receive and use based on confirmation and success to the continuance of e-government in the Regional Government. Furthermore, the model development dimensions which include SYQ, SVQ, INQ, PE, EE, SI, FC, CF, USE, USF, and SYC are used to develop 16 hypotheses, as explained in the next paragraph. Then each relationship will be tested in the implementation of the research through a research instrument developed (Table 4).

First, to meet the needs given the totality of features and characteristics of a product or service that bears its ability to become a reference for quality (Thomas, 2006). Quality can also be measured by a variety of perspectives (Guimaraes and Igbaria, 1997). Delone and McLean (2003 assume that quality is divided into three dimensions: information quality (INQ), system quality (SYQ),

and service quality (SVQ). When individuals feel the quality produced by the system, this may affect their perception of usability (Yousef) of the system. Therefore, the higher the level of system quality, the system will be more useful and easy to use (H1, H2, H3, H4, and H5).

Table 2: List of the variables (Bhattacherjee, 2001; Delone and McLean, 2003; Venkatesh, Thong and Xu, 2012a).

Variable	Definition
SYQ	Level to describe the quality of the content of the system.
SVQ	Level to assess how good the quality of service is for users.
INQ	The degree to which the information produced consistently meets user requirements and expectations.
FC	The extent to which users believe that organizational and technical infrastructure exists to support system use.
SI	The extent to which users feel that other important people believe they must use a new system.
EE	The level of ease associated with the use of the system.
PE	The rate at which users believe that using the system will help them benefit in performance.
CF	The level of user confirmation is positive for system usage satisfaction.
USE	Level of system utilization by individuals, groups, or organizations.
USF	The level of satisfaction with the initial system usage is positively related to the continuation of their system.
SYC	The degree of the continuance of the initiative of the system

Second, the four core constructs identified by Venkatesh et al. (2003 in UTAUT2 (Venkatesh, Thong and Xu, 2012b), remain the core construct used in this research model. PE, EE, SI, and FC are expected to positively and directly influence the mandatory USE system (H6, H8, H10, and H11). USE is expected to fully mediate the effect of the model positively for USF (H14). Petter et al., (Petter, DeLone and McLean, 2008) treats "intention to use" and "use" in avoiding the complexity of the model as a single variable, namely "system use". In addition, they argue that the intention to use is only appropriate for the level of individual analysis, while the use of the system can be measured both at the individual and organizational level. In addition, the researcher explored the moderator (age, gender, experience) of UTAUT2 (Venkatesh, Thong and Xu, 2012a) in this model and found no statistically

significant moderating effects (Tamilmani, Rana and Dwivedi, 2017; Yuan *et al.*, 2015). Therefore, this potential moderating variable is not included in our model (see Figure 2).

Table 3: List of the indicators.

Indicator	Definition
Erre of U.s.	The degree of system freedom from
Ease of Use	constraints, difficulties, and
(31Q1)	problems during use.
Maintainability	The degree associated with the ease
(SYQ2)	of SI in its study.
Response Time	The degree associated with the
(SYO3)	amount of time needed to respond
(51Q5)	to commands from that user.
	The degree associated with the
Functionality	system can be operated according to
(SYQ4)	the requirements that have been
	planned.
Safety	The degree of the immune of the
(SYO5)	system from unexpected attacks,
(6125)	dangers, or damage.
Responsiveness	The degree of the system's reaction
(SVO1)	to serve its users in a suitable way,
(3+2-)	time and situation.
Flexibilty	The degree of the system adaptation
(SVO2)	to serve its users in accordance with
(~ • • •	the requested requirements.
<i>a</i> .	The degree of security of an
Security	integrated system to serve users
(SVQ3)	safely from attacks, dangers, or
	unexpected damage.
Functionality	The degree associated with system
(SVQ4)	service coverage corresponds to
	The degree sees sisted with
Extension	I ne degree associated with
(SVO5)	that avagada functional
$(3\sqrt{2})$	requirements
Accuracy	The degree of feasibility of the
(INO1)	information produced
(11(Q1)	The degree of precision of the
Timeliness	system information processing
(INO2)	process at the planned time
(duration.
	The degree of information
Completeness	generated by the system is complete
(INQ3)	or without missing parts.
	The tendency of the system to still
Consistency	demonstrate the same information
(INO4)	in operations, services,
	maintenance, or quality.
D I	Linkage level of information
(NO5)	produced by the system with the
(111Q5)	subject matter.
Perceived	The extent to which a person
usefulness	believes in using a particular system
(PE1)	will improve his work performance.

Table 3: List of the indicators (continued).

Indicator	Definition
Extrinsic	The perception that users want to do
motivation	an activity is considered an important
(PE2)	role in achieving valuable results that
(1 ==)	are different from the activity itself.
Job-fit (PE3)	How does the ability of a system to
	improve individual work performance.
Relative	The extent to which innovation is
advantage	considered better than its predecessor.
(PE4)	The extent to which the quality of
Expectations	community understanding and ability
(PE5)	must be achieved
Perceived	The extent to which the user's
Ease of Use	perspective expects that using this
(EE1)	system is free from effort.
()	The extent to which a system is
Complexity	perceived is relatively difficult to
(EE2)	understand and use.
	A person's perception that most people
Subjective	who are important to him think he
norm (SI1)	should or should not do the intended
	behavior.
	Individual internalization of the
Social factors	subjective culture of reference groups
(SI2)	and specific interpersonal agreements
(~)	that individuals have done with others,
	in certain social situations.
	The extent to which the use of an
Image (SI3)	status of a person in one's social
	system
	Reflecting perceptions of constraints
Perceiver	on behavior and including self-
behavioral	efficacy, resource facilitation
control (FC1)	conditions, and technological
	facilitation conditions.
Facilitating	Objective factors in the environment
conditions	that the observer enters into action are
(FC2)	easy to do.
Services	The degree of service provided by the
provided	austom is better them
(CF3)	system is better than expected.
	system is better than expected.
Experience	The degree of experience using the
using (CF1)	The degree of experience using the system is better than expected.
using (CF1) Innovation	The degree of experience using the system is better than expected. The degree of innovation perceived is
Experience using (CF1) Innovation perceived (CF2)	The degree of experience using the system is better than expected. The degree of innovation perceived is better than expected.
Experience using (CF1) Innovation perceived (CF2) Services	The degree of experience using the system is better than expected. The degree of innovation perceived is better than expected.
Experience using (CF1) Innovation perceived (CF2) Services provided	The degree of experience using the system is better than expected. The degree of innovation perceived is better than expected. The degree of service provided by the
Experience using (CF1) Innovation perceived (CF2) Services provided (CF3)	The degree of experience using the system is better than expected. The degree of innovation perceived is better than expected. The degree of service provided by the system is better than expected.
Experience using (CF1) Innovation perceived (CF2) Services provided (CF3) Services	The degree of experience using the system is better than expected. The degree of innovation perceived is better than expected. The degree of service provided by the system is better than expected.
Experience using (CF1) Innovation perceived (CF2) Services provided (CF3) Services required	The degree of experience using the system is better than expected. The degree of innovation perceived is better than expected. The degree of service provided by the system is better than expected. The degree of service required of the system is better than expected.
Experience using (CF1) Innovation perceived (CF2) Services provided (CF3) Services required (CF4)	System is better than expected. The degree of experience using the system is better than expected. The degree of innovation perceived is better than expected. The degree of service provided by the system is better than expected. The degree of service required of the system is better than expected.
Experience using (CF1) Innovation perceived (CF2) Services provided (CF3) Services required (CF4) Overall, using	System is better than expected. The degree of experience using the system is better than expected. The degree of innovation perceived is better than expected. The degree of service provided by the system is better than expected. The degree of service required of the system is better than expected. Overall most use information
Experience using (CF1) Innovation perceived (CF2) Services provided (CF3) Services required (CF4) Overall, using confirmed	system is better than expected. The degree of experience using the system is better than expected. The degree of innovation perceived is better than expected. The degree of service provided by the system is better than expected. The degree of service required of the system is better than expected. Overall, most use information systems

Table 3: List of the indicators (continued).

Indicator	Definition
The frequency	Levels related to the amount of time
of use (USE1)	used by the system.
The intensity	Levels related to the amount of time
of use (USE2)	used by the system.
The extent of	The level associated with the scope of use of the system is based on use or
use (USE3)	not using basic and advanced system capabilities.
Thoroughness	The level associated with the accuracy
of use (USE4)	of use.
Appropriate use (USE5)	The level associated with proper use.
	The level of user satisfaction with the
Efficiency	system is based on the system to
(USF1)	produce output with the resources
	needed to achieve output.
Effectivity	System user satisfaction level based on
(USE2)	the ability of the system to meet user
(USF2)	needs.
Floribility	The system user level is related to the
(USE2)	adaptability of the system according to
(03F3)	the requested requirements.
Adagustaly	The level of system user satisfaction
(USE4)	associated with adequate system
(0514)	quality.
Overall	The level of user satisfaction with the
Satisfaction	system is related to the adequacy of all
(USF5)	aspects of the system.
Continuity of	The degree of Continuance of usability
usability	of the system.
(SYCI)	
Continuance	
of services	The degree of continuance to provide
provided	services.
(SYC2)	
Continuation	The degree of continuance uses the
of usage	system.
(SYC3)	
System	
continuation	The degree of system continuance.
(SYC4)	
Promote of	
service	The degree of promote of service.
(SYC5)	

Third, the perception of ease of use (EE1) is similar to business expectations (EE) (Chan *et al.*, 2010). Venkatesh *et al.* (2003 that for measurements for attitudes already included in EE and PE, in mandatory settings, attitudes should not be included in the model. Chan *et al.*, (Chan *et al.*, 2010) state that PE and EE are one of the important variables to evaluate a system in a mandatory environment. Both variables play a role to "encourage a positive attitude towards and satisfaction of users with the use of the system by increasing efficiency and minimizing efforts in using technology (H7 and H9) (Petter, DeLone and McLean, 2008)."

Finally, confirmation also has a significant effect on perceived usefulness, can be seen by users who can also be adjusted to the level of confirmation. Confirmation (CF) is a new construction in research on IS usage. Satisfaction (USF) with use (Yousef) IS is predicted by confirmation (CF) of system use and both by use (H12 and H13) (Bhattacherjee, 2001). This construct conceptualization and validating its effects on the continuation of the system (H15 and H16) are two solutions to this study.

In short, it can be clearly seen that the description of the development of the system continuation model can explain the research questions mentioned above and can prove the possibility of developing new models by adopting, combining, and adapting acceptance and use of the technology (Venkatesh, Thong and Xu, 2012a), expectation-confirmation (Bhattacherjee, 2001), and success IS model (Delone and McLean, 2003). Furthermore, the definition of each variable, the indicators are broken down and the statements from the questionnaire can be seen in Table 2, Table 3, and Table 4 respectively.

This study contributes to the theoretical development of the literature about the success of existing information systems with the stages of development from the acceptance and use of technology, and the expectation in interpreting and predicting the continuation of e-government systems in the Regional Government. Second, this study explores the continued use and satisfaction in the continuance of information systems, thus highlighting the important role of use and satisfaction in the continuation of information systems. In addition, the transparency of the model development process and the credibility of the basic model and the theory used can also be considered as a model trust point.

This study does have some limitations. With regard to usage rates, Lassila and Brancheau (Lassila and Brancheau, 1999) identify various countries using the system based on use or not using basic and advanced system capabilities. Secondly, there is no mandatory use of the system entirely. At certain organizational levels, management has chosen to implement the system and requires employees to use it. Thus, while the use of a system can be mandatory at one level, the adoption and use of the system itself may be entirely voluntary, based on management judgment, at a higher level. Management always has the option to stop the system that does not provide the desired results and benefits (Delone and McLean, 2003).

Table 4: List of the questionnaire statements.

Statements of the questionnaires
SYQ1 - The system is easy to use.
SYQ2 - Easy maintenance system.
SYQ3 - The system is able to respond quickly
following the instructions given.
SYQ4 - The system is able to perform all the functions
required in its development.
SYQ5 - The system is safe in its use.
SVQ1 - System to provide services quickly.
SVQ2 - The system provides flexible services
according to user conditions.
SVQ3 - The system provides safe services.
SVQ4 - The system provides services that meet the
requirements in its development.
SVQ5 - The system provides services more than the
NO1 The system produces information accurately
INQ1 - The system produces information accurately.
INQ2 - The system produces information in a timely
INQ3 - The system produces complete information.
INQ4 - The system produces information consistently
INO5 - The system produces information according to
the needs of its users.
PE1 - Using the system will improve my work
performance.
PE2 - Using the system in my work will increase my
productivity.
PE3 - The use of the system can increase the
effectiveness of the implementation of work tasks.
PE4 - Using the system makes it easier to do my work.
PE5 - Using the system can improve the quality of
community understanding and ability as a result to be
achieved.
EE1 - It will be easy for me to be skilled in using the
EF2 - Working with a system is very complicated it is
difficult to understand what is happening.
SII - According to someone who is important to me I
have to use the system.
SI2 - In general, organizations have supported the use
OI the system.
515 - People in my organization who use the system have more prestige than those who don't
FC1 - Users have the knowledge needed to use the
system.
FC2 - Someone (or group) provides assistance for
system difficulties.
FC3 - Using this system is compatible with all aspects
of the user 5 work.

Table 4: List of the questionnaire statements (continued).

Statements of the questionnaires
CF1 - My experience with using system was better than what I expected.
CF2 - The system can meet gain performance in excess
of what required for the service.
CF3 - The service level provided by the system was
better than what I expected.
CF4 - The system can meet demands in excess of what
I required for the service.
CF5 - Overall, most of my expectations from using
system were confirmed.
USE1 - How often do users use this system.
USE2 - How much time does the user spend with the
system during normal days when the user uses the
computer.
USE3 - How much time does the user spend with the
system during normal days when the user uses the
computer to meet further needs.
USE4 - How accuracy of use of the system in meet
services needed.
USE5 - How appropriate of use of the system in meet
services needed.
USF1 - Users are satisfied with the level of system
efficiency.
USF2 - Users are satisfied with the level of system
effectiveness.
USF3 - Users are satisfied with the level of system flexibility.
USF4 - Users are satisfied with the level of system
adequately.
USF5 - Users are satisfied with system performance.
SYC1 - This system is always useful.
SYC2 - Users feel that they are not burdened with the
use of the system.
SYC3 - Users continue to use this system in the future.
SYC4 - Users strongly advise others to keep using the
system.
SYC5 - Promote the system to the wider community as
a form of service.

Finally, we do not integrate the variables of hedonic motivation, price values, habits and possible moderators into the original UTAUT2 (Venkatesh, Thong and Xu, 2012a). Future research can explore additional expansion variables and moderators, so that the relationship between variables in the new model can be made more explicit.

5 CONCLUSIONS

E-government has become a major topic of interest for academics and practitioners. The study of the success of e-government implementation is part of the success study of the IS application. This research continues this tradition and broadens knowledge regarding the relationship of factors that influence users to accept and use based on confirmation and usefulness to IS success by adopting, combining, and adopting acceptance and use of technology, expectations, and IS success models, in the matter of assessing the continuation of e-government in the Regional Government. Factors that influence users to receive and use e-government in the long run are used by the author as an assumption of model development. The model uses 11 variables, 48 indicators with 16 paths of influence between variables. Researchers have also proposed 48 questions for the development of the next questionnaire. In addition to this exploratory study can contribute to the theoretical development of the success of the existing information system literature by adopting, combining, and adapting the acceptance and use of technology, and expectations in interpreting and predicting the continuity of the egovernment in the Regional Government, the process the development of the proposed model and its data collection instruments can be a practical consideration for further studies. In addition, the transparency of the model development process and the credibility of the basic model and the theory used can also be considered as a model trust point. Despite the fact that this study does have some limitations. With regard to the level of use, there is no fully mandatory use of the system, and not all UTAUT2 variables and the possibility of a moderator are integrated into the model. Other studies used various assumptions, methods and different understandings can present different propositions. In addition, limitations can help to further study, especially the validity of the proposed model. Future research can explore additional expansion variables and moderators, so that the relationship between variables in the new model can be made more explicit.

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