FACTORS INFLUENCING THE ADOPTION OF E-TILANG; EMPIRICAL EVIDENCE FROM THE UTAUT MODEL

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Abstract: Mid-year 2017 The National Police of the Republic of Indonesia publishes e-tilang technology innovation. Traffic police use e-tilang in handling vehicles that violate traffic on the highway. This is to improve service to the public. This research factor influences acceptance and use of e-tilang by using UTAUT model. This research was conducted in Bengkulu area with 152 traffic policemen. The findings of this study indicate that effort expectancy, performance expectancy, and social influences positively affect the use of e-tilang. Furthermore, no positive effect on the intention of using e-tilang is the Facilitation Conditions. The results of this study are important steps to improve e-tilang services.

Keywords: *E-tilang, Information System, Innovation Technology, UTAUT.*

1. Introduction

Currently, the development of information technology in the government is growing rapidly. This is particularly important given the potential to improve services, reduce costs and accessibility to citizens (Carter & provides Bélanger 2005). E-government certain benefits of society transparency in government processes, efficient services will reduce costs and time. E-government for simplify government helps procedures, improve office management and create effective government regulations (Kayani et al. 2011).

In mid-2017, the State Police of the Republic of Indonesia issued e-tilang innovation technology. E-tilang is an online application used by traffic police. E-tilang aims to improve service to the public and reduce the misuse of payment of fines to traffic police on the highway. Traffic policemen are responsible for ensuring that traffic rules are adhered to by vehicle drivers (Bates et al. 2017; Bates et al. 2014). E-tilang reflects the strategy of the traffic police in delivering information and communications to the public. This is in line with Lindsay et al. (2011) study, which states that 72% of technology can help police work and be able to solve problems.

This study uses a model reference Venkatesh et al. (2003). The model used in evaluating the acceptance and application of technology. Unified Theory Acceptance and Use of the Technology (UTAUT) is able to explain behavioral intentions in using system information. UTAUT explains the intent and behavior of users in using system information. Performance Expectations, Business Expectations, Social Influence, and facilitating conditions have a direct effect on the intentions of using the system. This model describes the intent of the user in using the system information and behavior of its users.

The Performance Expectations, Effort Expectations, Social Influence, and Facilitation Conditions have a direct effect on behavioral intentions in UTAUT. These four constructs are used to measure from e-Government services at present. The linkage between the main constructs at UTAUT shows a high significance of technology acceptance.

Based on the above explanation, the researcher will identify the factors influencing the use and acceptance of e-tilang at traffic police by using the UTAUT method. This research will be useful for developing based additional literature on current conceptual data and future research in Indonesia and its territory. The findings of this research can be a consideration to improve information technology services in the police.

2. Literature Review

According to Alshehri. his research investigates the feasibility of UTAUT for the use of technology received in government (Alshehri 2012). The findings indicate UTAUT is eligible for use on e-government acceptance. Increasing use and acceptance of e-government especially in the service to the community makes the service easier and faster. Information technology affects the ability of police to solve problems. Legohérel (2013) said the use of new technologies can improve performance. Lau (2016), explains performance that expectancy greatly influences behavioral intentions to use technology. Effort expectancy explains the ease of service in e-government. Effort expectancy has the effect on behavioral intentions using technology. Social in influences can convince each other that it is easy to accept the use of technology. Facilitating conditions is a picture of infrastructure and technical support for the system used within the organization, this is like previous studies (Akhtar Shareef et al. 2014; Lin et al. 2010).

3. Research Model and Hypothesis

This method UTAUT is composite of Theory Reasoned Action, Planned Behavior Theory (Ajzen 1991), Technology Acceptance Model, Diffusion of Innovation Model, (Mustonen-Ollila & Lyytinen 2003) and TAM2 (Madden et al. 1992). The strength of this model is widely used in various studies and applies it extensively to various technologies (Williams et al. 2015). The UTAUT model consists of 4 variables, that is performance expectancy, effort expectancy, influence. social facilitation conditions. According to Lin et al. (2010), the variable will be an important role as a direct determinant of usage behavior. In this study, performance expectations, social influence, effort expectations, and facilitation conditions are the main constructs that will be the effect on Behavioral Intention. Based on the UTAUT model, it can be estimated that this key factor influences the adoption of e-tilang. The linkages between major constructs at UTAUT have demonstrated a high significance of technology acceptance and have been shown to be consistent with many studies (Azam 2015, Raja Yusof et al. 2017). The UTAUT model as shown in figure 1.





Rahman et al (2014) used UTAUT's main variable in evaluating the acceptance of smart boards among school teachers. This is in line with research on the acceptance of new etilang technology. The research model is shown in Figure 2.



Figure 2. Model of Research

An insight into established research suggests that the model has been empirically tested for studies of e-government adoption. Empirically this study is the most widely used and applied adoption and acceptance model, using e-government services can provide useful insights and implications for understanding someone's intentions (Barua 2012).

Performance expectations are one of constructions, UTAUT performance expectations explain how much one believes that information systems can help the work to get the desired results (Venkatesh et al. 2003). This performance expectancy is derived from a combination of the concept benefit perception, motivation, extrinsic occupational conformance, relative profit, and expected outcomes. Performance expectancy makes it possible to access information quickly and conveniently. performance expectancy greatly affects the user's intentions (Lau 2016). The hypotheses are summarized as follows:

H1: Performance Expectancy positively influences behavioral intentions in using e-tilang.

Effort expectancy describes the level of ease of using the system. Effort expectancy is a combination of TAM2 and MPCU methods. Effort Expectancy explains the ease of service e-tilang, how users interact with the interface. This construction is like that of Williams et al. (2015) that influenced users' attitudes toward usage. The hypotheses are summarized as follows: **H2:** Effort Expectancy positively influences behavioral intentions in using e-tilang.

The Social Effect is the UTAUT construct that explains how much one be sure lest employ a new system can minimize effort in work. This construct describes the person's ease or environment to influence each other. The hypotheses are summarized as follows:

H3: Social Influence positively influences behavioral intentions in using e-tilang.

Facilitating conditions are how much one believes that the existence of a good organizational and technic infrastructure could support the employ from the system. Facilitating conditions is a very important service to the organization. The hypotheses are summarized as follows:

H4: Facilitating Conditions positively affects behavioral intentions in using e-tilang.

4. Research Methods

Case studies in this research are traffic police in Bengkulu area. The number of traffic police respondents is 165 personnel. The survey was conducted using a questionnaire given to all traffic police. Based on Kumar (2016), the questionnaire was distributed with probability sampling technique. Determination of the number of respondents refers to previous studies (Chang, 2013) and is based on MacCallum et al (MacCallum et al. 1996). Another consideration is that in SEM, a sample size of 100-200 is required for sample size determination.

SEM techniques allow researchers to evaluate the construction model and to estimate the structural relationship between latent variables simultaneously (Hair et al., 2006). The data were tested using Structural Equation Modeling (SEM) with the help of AMOS 22 devices. Researchers collected data through 165 questionnaires and 152 returned, with a response rate of 87.36%. The questionnaire used was 165 and returned as many as 152 questionnaires, with a response rate of 87.36%. Respondent's demographics the results are shown in table 1.

Character		Frequency	Percent
Gandar	Male	133	87.5
Gender	Female	19	12.5
	Less than 25	23	15.13
A 92	26-30	31	20.39
Age	31-35	92	60.53
	More than 36	6	3.95
Educational	High school	132	86.84
Lovel	Bachelor	17	11.18
Level	Master	3	1.98
Internet	Experienced	150	98.68
Experience	Inexperienced	2	1.32
E-tilang	Less than 1 month	19	12.5
	1-3 month	27	17.76
Usage	More than 3 months	106	69.74

 Table 1: Demographic Data (N=152)

Effort	EE 1	0.874	0.6396	0.9045
Expectancy	EE 2	0.713		
	EE 3	0.815		
	EE 4	0.791		
	EE 5	0.846		
Social	SI 1	0.732	0.6555	0.8664
Influence	SI 2	0.709		
	SI 3	0.798		
	SI 4	0.806		
	SI 5	0.709		
Facilitating	FC 1	0.756	0.5655	0.8677
Conditions	FC 2	0.719		
	FC 3	0.826		
	FC 4	0.759		
	FC 5	0.703		
Behavioral	BI 1	0.831	0.5682	0.8971
Intention	BI 2	0.8		
	BI 3	0.794		
	BI 4	0.712		
	BI 5	0.845		

5. Data Analysis

A. Measurement Model

Test the validity and reliability of the software used Amos 22. The value of reliability that qualifies if the average value of the AVE and loading factor values greater than 0.5. Furthermore, the CR value must be greater than the AVE value (Hair et al, 2006). Based on the calculation, the value of AVE for each construct is 0.636, 0.639, 0.655, 0.565 and 0.568. While the value of CR is 0.898, 0.904, 0.866, 0.867 and 0.891. This shows that the value of AVE and CR value has met the recommended value of 0.5 and shows a good reliability test. The results are shown in table 2.

Table 2. Factor loading, AVE, and CR	Table 2.	Factor	loading,	AVE,	and	CR
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Variable	Items	Factor	AVE	CR
		Loading		
Performance	PE 1	0.803	0.6364	0.8982
Expectancy	PE 2	0.701		
	PE 3	0.807		
	PE 4	0.876		
	PE 5	0.802		

B. Discriminant Validity Test

Discriminant validity is a different measure than others. This test was conducted to measure whether two different factors, yielding valid data on to the AVE square root ratios and available factors (Barua 2012), shown in Table 3.

Table 3. Discriminant validity

DISCRIMINANT VALIDITY							
PE EE SI FC BI							
PE	0.7998						
EE	0.3380	0.8097					
SI	0.2830	0.2610	0.7520				
FC	0.0710	0.0630	0.0730	0.7538			
BI	0.4150	03930	0.3690	0.0930	0.7977		

The model test is then performed using confirmatory factor analysis (CFA). The CFA test shows chi-squared value of 1,405, probability value 0.000, RMSEA value 0,052, GFI value 0,842, AGFI value 0,806, TLI 0,952 and CFI 0,958. From the results can be concluded that the model has a good suitability. The results of the CFA test are shown in Table 4.

The	Cut off	Research	Result
goodness	value	model	
of fit index			
Significant	≥ 0.05	0.000	Poor fit
Probability			
Chi-square	< 5.00	1.405	Good fit
RMSEA	≤ 0.08	0.052	Good fit
AGFI	≥ 0.80	0.806	Good fit
GFI	≥ 0.90	0.842	Marginal fit
TLI	≥ 0.90	0.952	Good fit
GFI	≥ 0.90	0.958	Good fit

Table 4. Criteria model fit

C. Structural Model Estimation

After testing the fit model criteria showing that overall showed a good level of conformity, then a theoretical hypothesis was tested. The conducted determine was to the test relationship between latent construction through SEM technique on AMOS software. The list of the path coefficients and their significance and hypothesis testing results is shown in table 5.

Table 5. Hypothesis testing results

	Estimate	SE	CR	Р	Result
PE→BI	0.367	0.116	3.151	0.002	Yes
EE→BI	0.174	0.083	2.113	0.035	Yes
SI→BI	0.726	0.13	5.57	***	Yes
FC→BI	0.01	0.052	0.189	0.85	No

From the data processing, it is known that the value of CR shows the value of 1.96 and the value of P below 0.05 so it can be said that 3 hypotheses have an influence, and one hypothesis has no significant effect because the P value is more than 0.05. The results show that performance expectancy, effort expectancy, and social influence have a positive effect on behavioral intentions. Effort expectancy (p = 0.002) has a greater effect than performance expectation (p = 0.035). The social influence (p = 0,000) also has a positive effect. Facilitation conditions have a value of p = 0.850 which shows a P value above 0.05, which means that the facilitation conditions have no positive effect on behavioral intent.

Venkatesh (2003) explains that facilitating conditions are cost and system availability. According to Lin et al, facilitating conditions and good infrastructure can facilitate the use of the system.

6. Discussions

The results show that performance expectation has a positive effect using e-tilang. E-tilang is useful in work because it can improve performance. The results of this study support the research of Lin et al (2010), which says using online systems can help improve performance. Usefulness is useful for traffic police because e-tilang can be used anywhere and anytime. The perceived benefits have described a trust to use the system in improving performance. The results showed that e-tilang use can improve service to the public.

The results showed effort expectancy positively influences behavioral intentions in using e-tilang. Traffic cops say e-tilang is easy to learn. The level of ease is very influential in using the system. Construct This means an important factor in e-tilang adoption. E-tilang also provides an easy user interface. These results indicate that ease of use in e-tilang can improve performance and expected effort. Etilang can reduce illegal levies with good results. The results of this study support some previous research (Bagozzi & Yi 1988; Alshehri 2012; Rehman et al. 2012; Verdegem & Verleye 2009).

Social influences also have a positive effect in using e-tilang. People who are important to traffic police have a big influence on the use of e-tilang. Director of traffic directs traffic police to use e-tilang. The use of e-tilang is also influenced by other co-workers. This supports Barua (2012) research, which says users are likely to comply with applicable regulations. Liu et al. (2014) also revealed that significant social influence a on the continuation of the intention of using mobile services.

The study states that the facility does not affect the intention to use e-tilang. The condition of Police Facilitation in Bengkulu is still inadequate. organizations do not have special personnel if electronic tilang have According to Ajzen (1991), problems. facilitating conditions can act as a proxy for controlling the direct behavior in using the system. traffic police still use manual tilang, so it is less effective. From the survey results are also known to the Internet network is sometimes constraint. favorable а А facilitation condition can increase the user to use e-tilang. Lindsay et al (2011) demonstrates easy and fast technology services that can rapidly improve the police ability to solve problems.

7. Conclusions

This study examines the factors affecting acceptance and use of e-tilang issued by the Indonesian National Police. Using the UTAUT model, this study shows that almost all the variables used in the method positively affects behavioral intentions in using e-tilang, such as work expectation, performance expectation, and social influence positively affects behavioral intentions in using e-tilang. For the construct of facilitation conditions, the results do not positively affect behavioral intentions in using e-tilang. This is because there are still inadequate facilities within the organization. Therefore, facilitation conditions should be improved to improve more effective services.

This study is also important steps to improve e-tilang services in the future, especially improving facilities conditions by the Police of the Republic of Indonesia in support of such e-tilang, such as facilities handphone and other internet devices. The more complete facilities and facilities provided to traffic police, the intention to use e-tilang will also be higher.

8. Limitations

This study has limitations because it only uses the main construction of the UTAUT model and has not included moderating effects (age, gender, and experience). Furthermore, the researchers only tested the acceptance of etilang at the traffic police organization.

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ATTACHMENT

MODEL





DEGREE OF FREEDOM

Computation of degrees of freedom (Default model)

- Number of distinct sample moments: 325
- Number of distinct parameters to be estimated: 60
 - Degrees of freedom (325 60): 265

NORMALITAS TEST

Assessment of normality (Group number 1)

Variable	Min	max	skew	c.r.	kurtosis	c.r.
FC1	1.000	5.000	327	-1.645	004	011
FC2	1.000	5.000	272	-1.369	430	-1.082
FC3	1.000	5.000	.184	.925	301	758
FC4	1.000	5.000	264	-1.330	.020	.051
FC5	1.000	5.000	122	616	.140	.353
SI1	2.000	5.000	.127	.641	519	-1.305
SI2	2.000	5.000	162	816	296	746
SI3	2.000	5.000	.306	1.540	931	-2.343
SI4	2.000	5.000	.217	1.093	831	-2.091
SI5	2.000	5.000	.055	.277	433	-1.089
EE1	2.000	5.000	.205	1.032	-1.000	-2.517
EE2	2.000	5.000	138	692	263	661
EE3	2.000	5.000	053	267	-1.024	-2.577
EE4	2.000	5.000	116	586	789	-1.985
EE5	2.000	5.000	.165	.829	765	-1.926
PE1	2.000	5.000	.044	.224	914	-2.300
PE2	2.000	5.000	.111	.560	993	-2.500
PE3	2.000	5.000	083	415	393	990
PE4	2.000	5.000	.150	.754	767	-1.930
PE5	2.000	5.000	.279	1.405	639	-1.609
BI5	2.000	5.000	.166	.834	890	-2.239
BI4	2.000	5.000	151	758	450	-1.132
BI3	2.000	5.000	.042	.212	679	-1.709
BI2	2.000	5.000	.449	2.260	933	-2.348
BI1	2.000	5.000	.048	.242	737	-1.856
Multivariate					-6.881	-1.155

OUTLIER TESTING

Observations farthest from the centroid (Mahalanobis distance) (Group number 1)

Observation number	Mahalanobis d-squared	p1	p2
69	46.178	.006	.607
89	42.882	.014	.645
56	42.496	.016	.435
80	39.374	.034	.758
102	38.096	.045	.822
132	36.888	.059	.891
95	36.266	.068	.895
85	35.973	.072	.863
123	35.901	.073	.788
151	34.554	.097	.929
79	34.415	.099	.898
58	33.824	.112	.927
121	33.532	.118	.921
146	33.007	.131	.944
104	32.815	.136	.932
131	32.494	.144	.936
48	32.466	.145	.903
54	32.418	.146	.863
42	32.327	.149	.825
111	32.206	.152	.791
136	32.195	.152	.721
64	32.172	.153	.647
33	31.933	.160	.648
130	31.464	.174	.732
51	31.255	.181	.730
76	31.043	.188	.730
22	30.708	.199	.773
144	30.237	.216	.851
98	29.633	.238	.932
119	29.344	.250	.947
32	29.109	.259	.954
6	28.968	.265	.950
112	28.577	.282	.972
149	28.386	.290	.974
66	28.378	.291	.961
82	28.141	.301	.968
7	28.041	.306	.963
50	28.015	.307	.949
19	27.860	.314	.950
2	27.844	.315	.931
55	27.711	.321	.928
71	27.699	.322	.903
28	27.523	.330	.909
41	27.510	.331	.880

Observation number	Mahalanobis d-squared	p1	p2
11	27.378	.337	.878
86	27.366	.338	.842
35	27.223	.345	.844
43	27.101	.351	.839
40	26.810	.365	.883
113	26.681	.372	.882
84	26.668	.373	.849
143	26.639	.374	.816
93	26.510	.381	.815
142	26.458	.383	.787
12	26.331	.390	.787
63	26.317	.391	.741
137	25.894	.413	.851
90	25.822	.417	.834
31	25.682	.425	.840
110	25.646	.427	.810
21	25.531	.433	.807
127	25.455	.437	.790
34	25.384	.441	.770
108	25.254	.448	.775
60	25.146	.454	.770
1	25.018	.461	.774
122	24.797	.474	.815
10	24.773	.475	.778
100	24.719	.478	.752
150	24.716	.478	.699
145	24.290	.503	.831
116	24.241	.505	.807
148	24.188	.509	.782
135	24.026	.518	.801
125	23.933	.523	.793
17	23.928	.524	.746
120	23.861	.527	.725
25	23.630	.541	.778
140	23.448	.551	.807
109	23.444	.552	.762
37	23.404	.554	.728
129	23.365	.556	.692
78	23.315	.559	.659
70	23.246	.563	.636
14	23.164	.568	.619
15	23.132	.570	.574
16	23.057	.574	.553
3	22.936	.581	.558
65	22.877	.585	.527
8	22.852	.586	.476
67	22.776	.591	.455
96	22.739	.593	.411

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Observation number	Mahalanobis d-squared	p1	p2
49	22.703	.595	.368
4	22.549	.604	.390
88	22.318	.617	.458
99	22.209	.624	.456
114	22.184	.625	.404
74	22.130	.628	.371
62	22.118	.629	.315
46	22.099	.630	.267

HYPOTHESIS TESTING

Regression Weights: (Group number 1 - Default model)

			Estimate	S.E.	C.R.	Р	Label
BI	<	PE	.367	.116	3.151	.002	par_27
BI	<	EE	.174	.083	2.113	.035	par_28
BI	<	SI	.726	.130	5.570	***	par_29
BI	<	FC	.010	.052	.189	.850	par_30
BI1	<	BI	1.000				
BI2	<	BI	.893	.076	11.761	***	par_1
BI3	<	BI	.910	.078	11.613	***	par_2
BI4	<	BI	.773	.078	9.887	***	par_3
BI5	<	BI	1.040	.081	12.896	***	par_4
PE5	<	PE	1.000				
PE4	<	PE	1.178	.094	12.577	***	par_5
PE3	<	PE	.968	.086	11.191	***	par_6
PE2	<	PE	.819	.088	9.288	***	par_7
PE1	<	PE	1.086	.099	11.023	***	par_8
EE5	<	EE	1.000				
EE4	<	EE	.978	.086	11.396	***	par_9
EE3	<	EE	1.035	.086	11.972	***	par_10
EE2	<	EE	.760	.076	10.005	***	par_11
EE1	<	EE	1.071	.078	13.723	***	par_12
SI5	<	SI	1.000				
SI4	<	SI	1.255	.134	9.345	***	par_13
SI3	<	SI	1.147	.125	9.204	***	par_14
SI2	<	SI	.970	.118	8.226	***	par_15
SI1	<	SI	1.036	.123	8.438	***	par_16
FC5	<	FC	1.000				
FC4	<	FC	.935	.116	8.026	***	par_17
FC3	<	FC	1.147	.135	8.509	***	par_18
FC2	<	FC	1.063	.128	8.295	***	par_19
FC1	<	FC	.972	.117	8.276	***	par_20