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## QUALITY ANALYSIS OF LOCAL GOVERNMENT WEBSITES IN INDONESIA

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### ABSTRACT

This research aims to analyze design quality of local government's website and its statistics. Design quality is determined by several prior studies and this research employed population data of local government websites in Indonesia based on direct observation during May 2013. Analysis was done descriptively and inferentially which shown that there are some variations among local governments in Indonesia regarded its website's quality. But in general, unsatisfaction results are found in most of websites. In other hand, low visit to the websites indicates that any possibility of low awareness from users of information about condition and governmental activities in their area. Moreover we found that own local revenue as well as governmental size are among important factors that influencing design quality of local government's website in Indonesia.

Keywords: Local, Government, Website Design, Indonesia, Website Quality

### 1. INTRODUCTION

Bureaucratic reform Indonesia. in especially in the area of financial management is characterized by the release of a variety of package of laws which set more stringent financial management and utilization of the country's finance resources. Transparencey is one of the issues in public financial management which have a lot of attention. The issue of transparency in Indonesia before the reform era (before 1998) is a sensitive matter that is difficult to achieve due to restrictions on access of information by the ruling regime. Though Shuler, Jaeger and Bertot (2010) stated that the transparency and the right of access to public sector information is a fundamental form of participatory democracy. encouraging confidence in the government, preventing corruption, decision making, improve the accuracy of information governance, as well as other basic functions in in society.

On the other hand, in line with the development of information technology, the use of web-based information system in public services either for information dissemination or being the part of the services it self, become the latest trend in public administration (Wong and Welch, 2004). Use of information technology is seen as a positive

channel to raise the level of accountability in the public sector and public empowerment (La Porte, de Jong, and Demchak, 2002). In international practice, particularly related to transparency, the presence of information technology significantly reduces costs to collect, cost to distribute and cost to access public sector information (Roberts, 2006). Additionally, with more and more information is expected to be delivered in a timely fashion that it can improve the transparency of the public sector and improve the ability of the public to monitor the performance of public institutions (Wong and Welch, 2004).

Along with the growing number of internet users in Indonesia, the need on certain level of become inevitable. website quality Local government needs a website that appeals to both in terms of content and appearance (design). It is important that people have a desire to open and use the information contained in the site so that the local government process so called e-government can be smoothly executed. But unfortunately, as far as the authors' knowledge, a comprehensive study sought to assess the quality of the look of the site is mainly on local government websites is very limited. This study aims to assess the quality of a web site owned by the local government in Indonesia, especially at local government level

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district and/or city. Studies co the perfect precursor to study			ormation the u information.			

the perfect precursor to study the entire site of local government available so that research results can indicate the actual conditions faced by each region. Then this study was to formulate a guide to local government in designing the site area is in line with expectations and the best standards available.

#### 2. LITERATURE REVIEW AND HYPOTHESIS DEVELOPMENT

Many channels can be utilized to deliver or disseminate mandatory information to the public such as papers or other electronic media. Along with the development of information technology, especially the Internet, to further facilitate the provision and public access to information. Beattie and Pratt (2001) revealed that the Internet is considered a potentially revolutionary process for reporting due to the use of the internet has a global scale, interactiveness, and good access speed. In international practice, Roberts (2006) states that the internet significantly reduces the cost of collection, distribution, and access to government information. Public should have easier access to important information that previously could only be done through a printed document (Sari and Martani, 2012). The use of the Internet to encourage a reasonable transparency is not only in its technological capacity , but also because the Internet can meet most of the expectations of society (Jaeger and Bertot, 2010).

Measuring the level of voluntary disclosure on the internet can be done at the level of disclosure and presentation of the content on the insitutional website. Perez, et al (2005) in his study of information content said that public goverment should have website that include, namely (1) the budget and cash flow information, (2) financial information, (3) an indication of the management and the services provided . Whereas in the case of disclosure presentation Perez, et al (2005) defines the design and navigation of the site includes six important things that have an impact on the level of access to site administration, namely: (1) information that is easily recognizable, (2) personalize the information presented to the user, (3) ease of transfer of information, (4) ease of management information provided, (5) the use of different languages for expressing information, and (6) ease of interaction with the user.

While research related to the quality look of the site is limited. Though the site may display quality is one of the important factors that affect the evaluate the application site in implementing egovernment in Indonesia based on the characteristics of the web, web popularity and webmetrics. Although not specifically focused on the quality of the appearance of the site, the results of their study showed webpage there is a difference between Java and outside Java. Research from Hermana et. Al, (2012) who tried to examine the quality of one local government websites based on web feature. Although limited web features are used, the results of their study showed that the profile of the area is the most common feature is presented while the FAQs is the most uncommon feature is presented on the local governments's websites .

The hypothesis developed in this study based on analysis of the factors that are considered to have an influence on the quality of local government websites in previous studies . In general, the identified variables are grouped into the financial capacity of local and regional characteristics, which include financial capacity of local government and characteristics of local government,

# 2.1 Local Government of Municipalities and Cities Financial Capacity

### 2.1.1 Local government spending

Perez et al (2009) said that local government with better financial conditions have more capacity to build better information technology infrastructure, better information technology infrastructure, among other things can be used as a vehicle to disseminate more information to the public. On the other hand, the signaling theory in the private sector stated that the disclosure of information may be a signal to the user about information related to the conditions faced by these entities. In relation to local government spending, local government will reveal more development success through capital expenditures, but a routine expenditures such as personnel spending or spending on goods / services will likely not disclosed. Based on these literatures we make our hypothesis as follows:

H1 : There is a positive relationship between the amount of capital expenditure on the quality of the Local Government's website design

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H2 : There is a negative relationship between		
	the amount of local governemnt's	2.2.2 Number of Population
	personnel expenditure to quality of Local	As one of the stakeholders of a local government

H3 : There is a negative relationship between the amount of spending on goods / services area to quality of Local Government's website design.

Government's website design.

### 2.1.2 Own source revenue

Dependence on the transfer of funds has been one of the many variables tested in various studies related to governance in the public sector. Ingram (1984) which looked at the transfer of funds as a higher state media to put pressure on the lower levels of government in running the governance area. While Giroux and McLelland (2003) have shown that the local income reflects the region's ability to support the running of governance in the region. The higher revenue implies the higher the ability to prepare a good medium for communicating information to the public. Based on these literatures we make our hypothesis as follows:

H4 : There is a positive relationship of the amount of own source revenue of the local government to the quality of local government's website quality

#### 2.2 Charateristic of Municipalities or City

#### 2.2.1 Type of local goverment

Giroux and McLelland (2003) found that there is a difference between a city that has a city manager or mayor-council major policies related to their governance. In the Indonesian context because all directly elected regional head, regional head of determining the difference is irrelevant. However, there are differences in the characteristics of the area in the form of county or city considered to be having an impact on the quality of governance in local government. Martani and Lestiani (2012) have tried to look at the impact of the type of districts and cities on the disclosure of financial information, but did not find a significant difference, although both show a positive direction. This is probably due to the limited sample used in their study. Based on these literature we make our hypothesis as follows:

H5 : There are differences in the quality of the local government website design between districts and cities in Indonesia.

As one of the stakeholders of a local government agency, the population have very important roles in encouraging transparency in local government efforts, for example the higher number of people asking for information then the pressure would also increase which encourages local governments to provide better medium to deliver better information. Piotrowski & Bertelli (2010) found that there is a positive influence among the population with information and discolure of financial statements. Similar variables have also been used Ingram (1984) in his research. Based on these literatures we make our hypothesis as follows:

H6 : There is a positive relationship of the population of an area to quality of local government's website quality

### **3. RESEARCH METHODOLOGY AND DATA**

The data of this study came from 491 local government of regional/municipalities or cities in Indonesia, each of every website of the local government was accessed in May 2013 using google search engine (http://www.google.co.id) as an entry point, concerning consistency of the result, assesment of the websites done by the researches to ensure uniformity of the asssesment. The url of website found by using keyword "kota namakota" (city name of the city) or "kabupaten namakabupaten" (Municipalitiy Name of The Municipality). The researchers using regional or municipalities in Bahasa Indonesia based on facts that municipalities or regional or city using english name was hard to found.

#### 3.1 Research Model

Research model of this research adapt some of the precursor research model with some changes in the measurement of the dependent and independent variables which are tailored to the availability of data in Indonesia. Models used in this study are as follows:

$$\begin{split} DESIGN &= \beta_0 + \beta_1 CAPSPEN + \\ \beta_2 EMPSPEN + \beta_3 GOODSPEN \\ &+ \beta_4 PAD + \beta_5 POP + \beta_6 TYPE + \epsilon_{...} \ (1) \end{split}$$

Where DESIGN is quality of local government website, CAPSPEN is Capital Spending of the Local Government, EMPSPEN is employee spending of the local government, GOODSPEN is

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the goods spending of the l	ocal government PAD	visitor counter and reco	rded the number of visitors	

the goods spending of the local government, PAD is own source revenue of the local government, POP is number of population, TYPE is the dummy variable of the type of local government municipalities or cities.

No	Variables	Measurement
1	Capital Spending (CAPSPEN)	Ln (belanja modal) from LKPD*
2	Employe Spending (EMPSPEN)	Ln (belanja pegawai) from LKPD*
3	Goods Spending (GOODSPEN)	Ln (belanja barang/jasa) from LKPD*
4	Own Source Revenue (PAD)	Ln (jumlah pendapatan asli daerah) frim LKPD*
5	Population (POP)	Ln (jumlah penduduk) from Badan Pusat Statistik**
6	Local Government Type (TYPE)	Dummy 1 (kabupaten/regency), 0 (kota/City)

\* LKPD = Laporan Keuangan Pemerintah Daerah, Local Government Financial Reports, data taken was from LKPD the year of 2011.

\*\* Badan Pusat Statistik (National Statistics Bureau of Indonesia) of the year 2011.

### 4. RESEARCH RESULT

#### 4.1 Descriptive Statistics

This study use data of population of all local government in municipalies or cities level in Indonesia based on the standardization of the code and the province, municipalities / cities in Indonesia which governed by the Regulation of the Minister of Home Affairs No. 66 in 2011. This limits the research on the official website of the municipalities or city, not includes websites of other units in municipalities or city which reside outside of the official website of the municipalities or city. As an illustration for "Kabupaten Aceh Selatan ", the search engine Google on July 12, 2013, gives "Website Resmi Kabupaten Aceh Selatan " with url "www.acehselatankab.go.id/" and performed the analysis by using a list of questions that have been made .

This study aimed to assess the quality of a website by adopting a framework of quality of websites developed by Hasan & Abuelrub (2011), which consists of several parts: content, design, organizations or settings, user- friendlyness, and this research adding yet another element that is

visitor counter, and recorded the number of visitors during the data collection, in February 2013 - May 2013. Further adjustment of the framework of a study made by Hasan & Abuelrub (2011) is the question about design use only one question for the design, since at this time the website design in general has had a variety of colors, so for design made just one question , namely website design contains a slider or moving images on the front page, while the substance was contained to the question of the existence of image, sound and video, more to the substance or multi media explaining the purpose, while designed more towards placement in website display.

The highest value of quality of the local government website by 39 of the maximum value of 43, obtained by two municipalities, they are Buleleng Regency (Bali) and Garut (West Java), while the mode is 0m as many as 84 municipalities or city government, the average value of the quality of the website is: 19.66, and the median us 23. For a possible total score of 43 quality assessment is a website that is a result of the 43 items were assessed for each of the website of district / city. From site 491 urban districts that have position of the top 10 scores are Kab. Buleleng regency. Garut regency. South Solok, Kab. Timor Tengah Utara, Bekasi, Kab. Klungkung regency. Purwakarta, Bandung, Pekalongan, and Sawahlunto, on the other hand there is 84 municipalities or city that have 0 for their scores of quality of the websites.

For a site that has a website visitor counter we recorded 227 city district government site features a visitor counter while the remaining 264 did not have a visitor counter feature, of the 227 sites that have a visitor counter feature, recorded Mandailing Natal regency, Samosir regency, had a number of visitors 0, while North Buton district, the district was, Gorontalo City has a number of visitors to 1, this is probably due to the feature is shown, but it does not work, that can be caused by one of the data storage system for data the number of visits.

Local government of municipalities or cities websites with highest number of visits achieved by Bogor City website, with the number of visits as many as 14,945,890, and for local government of municipalities or cities websites with smallest number of visit other than 0 and/or 1 taken by Pekalongan District by the number of 70. For the top ten local government of municipalities or cities websites number of visits presented in

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table 2, table 3 presented table urban districts with the 10 smallest number of visitors.

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Based on the data above, among others, there are 84 local government of municipalities or cities websites quality that get the value of 0, so it can be concluded early that concern of local government of municipalities or city towards the development of websites is relatively low, and this may also be affected by the needs of the community for accessing websites municipalities and/or city, which was the highest Bogor City only has the number of visitors by approximately 15 million, however the total visits to the websites of the municipalities and/or city in total at the time of data taken amounted to: 167,870,197, but it is uncertain origin, and which parts are accessible, because the study did not dissect, intention of user visits the website of local government of municipalities and/or cities.

Table 2	. Тор	10 Numbers	Of Visits
---------	-------	------------	-----------

1	KOTA BOGOR	14.945.890
2	KAB. JEMBRANA	14.527.991
3	KOTA DENPASAR	9.226.350
4	KOTA BANDUNG	9.085.285
5	KOTA TEGAL	8.993.010
6	KOTA TARAKAN	7.851.991
7	KAB. TABANAN	6.566.295
8	KAB. LABUHAN BATU	4.703.862
9	KAB. CILACAP	4.321.348
10	KAB. BADUNG	4.154.138

Source: Self data processing

### 4.2. Analysis of Variance

Subsequent analysis in the form of analysis of variance to determine the possible presence of differences in the quality of the site design is based on several indicators

One-way analysis of variance is done with the grouping municipalities or cities by sorting the size of own source revenue, with 50 municipalities or cities with the highest own source revenue and 50 municipalities or city with the lowest own source

	Table 3. Lowest 10 Numbers Of	Visits
1	KAB. PEKALONGAN	70
2	KAB. NABIRE	322
3	KAB. POLEWALI MANDAR	452
4	KAB. SEMARANG	573
5	KAB. KENDAL	899
6	KAB. KEPULAUAN ARU	1.043
7	KAB. PURWOREJO	1.226
8	KAB. BOLAANG	1.255
	MONGONDOW	
9	KOTA PEKALONGAN	1.443
10	KAB. KEPULAUAN SIAU,	1.638
	TAGULANDANG	
	G G 10 1 /	

Source: Self data processing

Table 4. Result Of Analysis Of Variance With Own Source Revenue Grouping As Independent Variable And Websites Quality

v ur tuble And websites Quality.						
	Sum of	Df	Mean	F	Sig.	
	Squares		Square		-	
Between Groups	3442,989	2	1721,4 95	16,809	0,000	
Within Groups	49978,888	488	102,41 6			
Total	53421,878	490				

Source: Self data processing

revenue, while the rest, put in a separate group. From the results of this analysis obtained p = 0.000 which is smaller than 0.05 so there is a significant difference in the value of quality design websites on the group municipalities or cities when grouped by own source revenue.

Analysis of varians with data grouped by municipalities or cities based on equalization funds resulted a significant result with p = 0.008 which is smaller than 0.05, so there is a significant difference in mean of the value websites quality on the group municipalities or cities when grouped by the amount of matching funds.

Results of analysis of variance for the mean of the quality of site design municipalities or cities grouped by total revenues showed significant results ( pp = 0.002, less than 0.05), indicating that there are significant differences between municipalities or cities when grouped according to total revenue.

Similar results were obtained from the one-way analysis of variance of municipalities or cities grouped by number of population, the grouping uses 50 municipalities or cities with the highest population and 50 municipalities or cities with the lowest population, then the rest, put in a separate group From the results of this analysis obtained p = 0.000 which is smaller than 0.05 so there is a significant difference in the value of quality design websites on municipalities or cities grouped based on population.

When grouped by the level of expenditure one way analysis of variance the resulted a significant difference of this analysis obtained p =0.011 which is smaller than 0.05 so there is a significant difference in the value of quality design websites on the group municipalities or cities when grouped according by personnel expenditure . While the results obtained p = 0.031 which is smaller than 0.05, so there is a significant difference in the value of quality design websites on the group municipalities or cities when grouped

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according by spending on goods and services . As well as related capital expenditures , obtained p=0.209 which is greater than 0.05 so there is no significant difference in the value of quality design websites on the group municipalities or cities when grouped according by capital expenditures .

In the final analysis, carried out by analyzing the inferential model that has been developed in the previous section. In general, the results of statistical tests of the model can be seen in table 5 and table 6

Table 5 Summary Of The Result Of OLS	
--------------------------------------	--

Model	R	R Square	Adjusted R Square	Std. Error of the
				Estimate
1	0, 35 9 <sup>a</sup>	0,129	0,118	9,807

a. Predictors: (Constant), GOODSPEN, EMPSPEN, CAPSPEN, PAD, TYPE, POP

ANOVA<sup>a</sup>

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Model		Sum of S	quares	df	Mean Square
	Regression	6875,407		6	1145,901
1	Residual			484	96,170
	Total			490	
Model	-	F	Sig.		
	Regression	11,915	0,000 <sup>b*</sup>	E	
1	Residual				
	Total				

a. Dependent Variable: DESIGN

b. Predictors: (Constant), GOODSPEN, EMPSPEN, CAPSPEN, PAD, TYPE, POP

Table 6 Summary Of The Result Of OLS					
Variable	Coeffi-	Standard	Signifi-	Нуро	
	cient	Deviation	cance	thesis	
Constant ( $\beta_0$ )	2,100	11,028	0,849		
Belanja Modal	-0,985	1,279	0,441	+	
(CAPSPEN)					
Belanja	0,275	0,977	0,779	-	
Pegawai					
(EMPSPEN)					
Belanja	-1,690	1,615	0,296	-	
Barang/jasa					
(GOODSPEN)					
Pendapatan asli	2,286	0,734		+	
daerah (PAD)			0,002*		
Jumlah	1,784	0,696		+	
penduduk			0,011**		
(POP)					
Jenis	0,848	1,306	0,516	differ	
pemerintahan				ent	
(TYPE)					

Table 6 Summary Of The Result Of OLS

notes: \* Significant at 1%, \*\* Significant at 1% 5%

There are only two significant explanatory variables affect the local government government of municipalities or city quality of websites that is own source revenue (2.286, sig 0.002) and number of population (1,784, sig 0.011). The estimations supports the hypothesis that both own source revenue (PAD) and the number population has a positive influence on the local government of municipalities or city quality of websites. These results indicate that local financial capacity, as reflected in the higher levels of PAD (own source revenue) greatly affect the region's ability to provide quality information for media users. Higher own source revenue (PAD) can be interpreted as an indicator of the success of regional development so that the local government of municipalities or city will most likely do their best to allocate the fund from income generated to communicate through the best channel available.

In line with the effect of own source revenue, where the number population is also have had positive influence which is confirmed research by Piotrowski & Bertelli (2010). Number of population who also have good quality of education can put pressure on local authorities to provide adequate information. So that the local government will strive to provide a good medium as a means of delivering information one through qualified local government official website.

Although financial capacity in the form of own source revenue (PAD) has significant influence, but related to the capacity of regional spending is considered not affect the quality of the site design. Capital expenditures (-0.985, 0.441 sig ) has a negative effect on the quality of the design, it may implicitly means that the local government has not been able to take advantage of assessed their official website in communicating development programs . Although it can also mean when there is an increase in capital expenditure allocations are used for the management of information media to be reduced .

Routine expenditures identified as personnel expenditure (0.275, sig.779) and spending on goods / services (-1.690, sig 0.296) turned out to have a diverse effect. Personnel expenditure is considered to have a positive impact, although not significantly. Insignificance of personnel expenses due to the amounts of personnel expenses is fixed for a given budget period. In addition, due to personnel expenditure comes from central government transfers funds, thought to be

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the reason that have a positive impact on design	government of municipalities or city websites is
quality. Ingram (1984) stated that when an area	still low. This can be a concern for the managers of

quality. Ingram (1984) stated that when an area gain a large portion of the transfer of funds from the central government, the central government has more power to put pressure on the local government regarding the conduct of governance in the region.

While spending on goods / services as expected has a negative impact, though not significantly. The nature of spending on goods / services (such as the purchase of official cars , official travel) are utilized for the benefit of local government officials tend to be regarded as a waste of state money. To avoid public pressure, the local government of municipalities or city will likely limit the information related expenditures of goods / services. In other words, when spending on goods / services, level of quality website design will get worse in order to restrict public access to certain information.

Variables are also considered insignificant is the type of government (0.848, 0.516 sig). These results inform that there is no difference in quality between the local government of municipalities and city. Decentralization since the passage of the reform push every area of open access to resources that can move . Resources are no longer qualified to urban areas, due to the current county area can have the same opportunities to develop their local governance systems, especially related media public transparency . These results were supported by descriptive statistics which show that areas that have a good quality website design fairly evenly in the district and city groups. Even the top four areas occupied by the local government of municipalities.

### **5. CONCLUSIONS**

According to analysis conducted on the local government of municipalities or city in Indonesia, it can be concluded that, overall, there is variation across municipalities or city in Indonesia in terms of website design quality. It also can be stated that most of the website managed by local government municipalities or city in Indonesia is still considered low in term of quality. It was found that there are large variations local government of municipalities or city websites utilization by users. Unfortunately almost 50 % local government of municipalities or city websites do not show the statistical information about their visitors, but it can be concluded the number of user of local government of municipalities or city websites is still low. This can be a concern for the managers of the site that is now the local government of municipalities or city websites are less attractive to users, may be due to poor design quality, but further research can be done to determine whether the low level of utilization can be result from the low quality of the websites or the apathetic state of the user in general.

From the results of the analysis of variance showed significant differences between the quality of website design areas based on population, own source revenue, the amount of capital expenditures, personnel expenditures, spending on goods / services. The uneven quality of the design of each region is a logical effect of the statistical picture. The very real inequality seen in areas that are generally categorized in the low group for all indicators with high indicator group .

This study also shown that revenue and population are important factors that encourages local government to provide a high quality website. The high level of own source revenue (PAD) become an important resource for the region because it shows the ability of the region in obtaining independent funding sources. The higher a fund 's ability to make increased local flexibility in managing and providing high quality website. On the other hand, especially if the number of people qualified to put pressure on local government to provide adequate information. This prompted the local government must provide a good means one of them through the site .

### 6. LIMITATIONS OF RESEARCH

This study have weaknesses that can be corrected in the next research. The low explanatory power of the independent variable (adjusted  $R^2 =$ 11.8 %) which can be used as indicators that the model used in this study is still lacking in capturing some variables that might have a significant influence on the quality of the website design issues such as local political power, or social issues such as education (Garcia and Sanchez, 2013). Methods of observations made in this study is only done once for each site. Future studies can use several times of observations for each site so the dynamics of improvement that occur at each site can be observed. Further research also can use assessment methods of quality that is not limited to the existence of indicators such as those used in this study.

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