ANALISIS PENGARUH KUALITAS JASA TERHADAP KEPUASAN DAN INTENSI PERILAKU PELANGGAN DALAM PELAYANAN AIR BERSIH

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Abstract

Nowadays, most of PDAM (Public Drinking Water Services) suffers from bankruptcy, because PDAMs have to pay their loan from an International Funding. There is more than 300 PDAMs in Indonesia trap in financial problem that have to pay credits approximately Rp 5,3 Billion. The main aim of the loan was to rise service level of public service in PDAM, but in fact it turns to be a `boomerang` for PDAM itself in financial and operational fields. Therefore, PDAM could not maximize its public service in expanding pipes to cover public needs of drinking water and advancing water quality. In other side, the number of citizen who need water keeps arise year by year. Today, PDAM Kabupaten Semarang Cabang Ungaran onlycan cover public needs of clear water for about 68%. The less service level in public service cause consuming level in public decreases. The worst would be declining of company income in PDAM Kabupaten Semarang Cabang Ungaran. For improving service quality, structural equation modelling is one of methods and way to identify factors and varibles that need to be improved rapidly. This model was wellknown as a device to evaluate correlation every varible that has significancy to customer satisfaction in PDAM Kabupaten Semarang Cabang Ungaran. For further, recommendation of improvement could be found in this model evaluation. Output of the structural equation modelling shows Reliability, Responsiveness, Assurance, and Emphaty dimensions have a positif correlation and significant to overall satisfaction but tangible dimension has no significant correlatiion. Evaluation of overall satisfaction variable to behavvioural intention shows that overall satisfaction has a positive and significant correlation to word-of-mouth and behavioural intention. Besides, overall satisfaction also has negative and no significant correlation to feedback

Keywords : structural equation modelling, service quality dimension, overall satisfaction, behavioural intention

INTRODUCTION

Reports of production and water distribution showed that distributed-water amount was 4.442.611,73 m3 and reportedwater amount was 2.414.820,88 m3. It means leakage level was still high, approximately 2.027.790,85 m3. Technical reports analyze that there was 45,64% lost during distributing the water. Comparation between production volume and reportedwater volume just about 52,15%.

The lower of service quality level can cause drowning of consumption level. The worst thing is income of PDAM Kabupaten Semarang becomes less. It also means there is huge opportunity for customer to use another water (except PDAM).

So far, PDAM couldn't shows better performance in service level. There's still many complaints that should be handled. Due to unmaximize service, customer satisfaction has to be evaluated. It aims to identify the most affecting factor in satisfaction. So, image and financial of PDAM is not drop down.

Structural equation modelling method is taken to advance quality level, and also to measure which variables that gives bigest effect to service quality. The models show relationship between customer satisfaction variables in PDAM Kabupaten Semarang Cabang Ungaran

High requirements of water needs in public and high operational cost make PDAM Kabupaten Semarang couldn't water service maximize its quality. Besides, operational cost came from foreign loans that have to be paid off. Complaints about service from customers indicates that PDAM still have to improve service quality Customer retention could welllevel. SERVQUAL implemented through

identification and evaluate its effect to customer satisfaction.

The objectives of this research are :

- 1. To evaluate customer satisfaction in PDAM Kabupaten Semarang
- 2. To analyze total satisfaction that has positif correlation to behavioural intention and sigfinicant relationship
- 3. To evaluate causality level among SERVQUAL variables, satisfaction variables, and behavioural intention variables.

RESEARCH METHOD Service Quality

SERVQUAL was originally measured on 10 aspects of service quality: reliability, responsiveness, competence, access, courtesy, communication, credibility, security, understanding or knowing the <u>customer</u> and tangibles. It measures the gap between customer expectations and experience.

By the early nineties the authors had refined the model to the useful acronym RATER:

- Reliability
- Assurance
- Tangibles
- Empathy, and
- Responsiveness

SERVQUAL has its detractors and is considered overly complex, subjective and statistically unreliable. The simplified RATER model however is a simple and useful model for qualitatively exploring and assessing customers' service experiences and has been used widely by service delivery organizations. It is an efficient model in helping an organization shape up their efforts in bridging the gap between perceived and expected services.

Nyeck, Morales, Ladhari, and Pons (2002) stated the SERVQUAL measuring tool "remains the most complete attempt to conceptualize and measure service quality" (p. 101). The main benefit to the SERVQUAL measuring tool is the ability of researchers to examine numerous service industries such as healthcare, banking, financial services, and education (Nyeck, Morales, Ladhari, & Pons, 2002). The fact that SERVQUAL has critics does not render the measuring tool moot. Rather, the criticism received concerning SERVQUAL measuring tool may have more to do with how researchers use the tool. Nyeck, Morales, Ladhari, and Pons (2002) reviewed 40 articles that made use of the SERVQUAL measuring tool and discovered "that few researchers concern themselves with the validation of the measuring tool" (p. 106).

Customer Satisfaction

Customer satisfaction is an ambiguous and abstract concept and the actual manifestation of the state of satisfaction will vary from person to person and product/service to product/service. The state of satisfaction depends on a number of both psychological and physical variables which correlate with satisfaction behaviors such as return and recommend rate. The level of satisfaction can also vary depending on other options the customer may have and other products against which the customer can compare the organization's products.

Because satisfaction is basically a psychological state, care should be taken in the effort of quantitative measurement, although a large quantity of research in this area has recently been developed. Work done by Berry (Bart Allen) and Brodeur between 1990 and 1998 defined ten 'Quality Values' which influence satisfaction behavior, further expanded by Berry in 2002 and known as the ten domains of satisfaction. These ten domains of Value, satisfaction include: Ouality. Timeliness, Efficiency, Ease of Access, Environment, Inter-departmental Teamwork, Front line Service Behaviors, Commitment to the Customer and Innovation. These factors are emphasized improvement for continuous and organizational change measurement and are most often utilized to develop the architecture for satisfaction measurement as an integrated model. Work done by Parasuraman, Zeithaml and Berry (Leonard L) between 1985 and 1988 provides the basis for the measurement of customer satisfaction with a service by using the gap between the customer's expectation of

performance and their perceived experience of performance. This provides the measurer with a satisfaction "gap" which is objective and quantitative in nature. Work done by Cronin and Taylor propose the "confirmation/disconfirmation" theory of combining the "gap" described by Parasuraman, Zeithaml and Berry as two different measures (perception and expectation of performance) into a single measurement of performance according to expectation. According Garbrand, to customer satisfaction equals perception of performance divided by expectation of performance.

The usual measures of customer satisfaction involve a survey with a set of statements using a Likert Technique or scale. The customer is asked to evaluate each statement and in term of their perception and expectation of performance of the organization being measured.

Behavioural Intention

Behavioural intention has been defined as the customers' subjective probability of performing a certain behavioural act (Fishbein and Ajzen, 1975). In this regard, three behaviours in particular have been associated with profitability and the market share of a firm; these customer behaviours are:

- (1) word-of-mouth;
- (2) repurchase intention; and
- (3) feedback to the service provider.

-Feedback

Customer feedback - refers to the transmission of negative information information (complaints) or positive (compliments) to providers about the services used. Such information can be useful for providers in identifying areas in which adjustments of performance are Very few researchers have required. examined the relationship between feedback and satisfaction. In most studies, feedback-providing the samples of customers have been small. Nevertheless, So"derlund (1998) did conclude that dissatisfied customers are significantly more likely to provide negative feedback than are satisfied customers to provide positive feedback. It is presumed that customers who provide negative feedback are seeking to achieve some form of compensation for unmet quality of services; in contrast, the provision of positive feedback is often perceived by customers as not being rewarded. (Theingi dan Saha, 2009)

-Word-of-Mouth

Word-of-mouth refers to a flow of information about products, services, or companies from one customer to another. As such, word-of-mouth represents a trusted externa source of information by which customers can evaluate a product or service. The empirical research that has investigated the relationship between customer satisfaction and word-of-mouth has not produced consistent findings. Some researchers have found a direct positive relationship – with satisfied customers engaging in more word-of-mouth (Holmes and Lett, 1977; Swan and Oliver, 1989; Brown et al., 2005; Babin et al., 2005). Others have found a negative relationship with dissatisfied customers engaging in more word-of-mouth (Bearden and Teel, 1983; Westbrook, 1987; Hart et al., 1990). Other studies have not found any significant direct relationship between the two constructs (Engel et al., 1969; Bettencourt, 1997). Wirtz and Chew (2002) attempted to explain these conflicting findings in terms of an asymmetric Ushaped pattern, according to which extremely satisfied customers and extremely dissatisfied customers generate more word-of-mouth, whereas moderately satisfied customers generate less word-ofmouth. In contrast to these mixed findings about the details of the relationship, there is general agreement about the valence (positive or negative) of the word-ofmouth: satisfied customers generate positive word-of-mouth (Bitner, 1990), whereas dissatisfied customers generate negative word-of-mouth (Richins, 1983). Although some studies have concluded that satisfaction is a necessary but not sufficient condition for positive word-of-mouth, it is agreed that positive feedback is always driven by satisfaction. However, both the

level and the valence of word-of-mouth are dependent on a range of other factors, including culture, incentives, emotion, and perception of the fairness of the encounter.

-Intention of Usage

There is a relationship between intensity of usage and customer satisfaction. High cuatomer satisfaction gives positif effect to intensity of usage, and so opposites. Satisfied customer has a willing to use or buy the same thing that have made them satisfied. Repurchase has a positif comparation with intensity of usage, which is the more repurchase the more intensity of usage raise up. One of the way to retent customer is improving customer satisfaction level and services continuously. Many factors that make customers move from one to another service providers, such as low price or better quality. (Anton ,1996).

HYPOTHESIS

- H1. Perceived service quality (servqual) positively influences passengers' satisfaction.
- H2. Passenger satisfaction (SERVQUAL) positively influences positive word-of-mouth.
- H3. Passenger satisfaction (SERVQUAL) positively influences repurchase intention.
- H4. Passenger satisfaction (SERVQUAL) negatively influences level of feedback.

Population and Sampling

Population of this reserach is customer in PDAM Cabang Ungaran Kabupaten Semarang. Using random sampling, samples of this research are :

$$\mathbf{n} = \frac{N}{1+N \ e^2}$$

That :

N = 9984
e = 10 % = 0,1
n =
$$\frac{9984}{1 + (9984 \times 0,1^2)}$$
 = 99.01
≈ 100 responden

LISREL could estimate model if samples are about 150-200. Base on that statement, researcher took 210 samples (70 low-end user, 70 middle-end user, 70 high-end user)

Variables Identification

- 1. Eksogen Construct Variable : SERQUAL (Tangible, Reliability, Responsiveness, Assurance, dan Emphaty)
- 2. Moderating Endogen Construct Variable:
 - Total Satisfaction Endogen Construct Variable :
- 3. Endogen Construct Variable : Behavioural Intention (Feedback, Word-of-Mouth, dan Intensity of Usage)

Instrument and Measurement

- Perceived quality Parasuraman et al (1988) measured with closed-answer questionaire and scaled with LIKERT. 1 stated very disagree and 5 stated very agree. There are 29 questions for 5 dimension of service quality
- 2. Total quality variable measured from 3 indikator. Total services, total tariff, total products. Each indicator has 2. 1 stated very disagree and 5 stated very agree.
- 3. Behavioural intention include 3 dimensions (*feedback, WOM*, and *intensity of usage*). Each dimension has 2 closed-answer questionaire. 1 stated very disagree and 5 stated very agree.

Analysis Tools

Structure Equation Modelling using LISREL 8.80 is aimed to evaluate causality relationship between endogen and eksogen variables (SERVQUAL variable, total satisfaction variable, and behavioural intention variable) in detail or overall realtionship. Equation models below :

<u>OS</u> =

$$\begin{split} \gamma_{11}\xi_1 + \gamma_{12}\xi_2 + \gamma_{13}\xi_3 + \gamma_{14}\xi_4 + \gamma_{15}\xi_5 + \zeta_1 \\ \underline{\text{feedback}} \\ = \beta_{21}\eta_1 + \zeta_2 \\ \underline{\text{word of mouth}} \end{split}$$

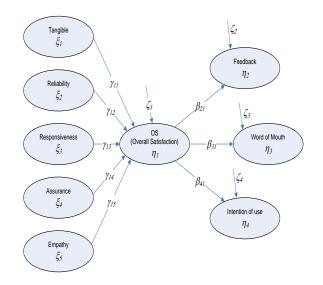
 $= \beta_{31}\eta_1 + \zeta_3$ <u>intention usage</u> $= \beta_{41}\eta_1 + \zeta_4$

ANALYSIS AND REVIEW Respondent Characteristics

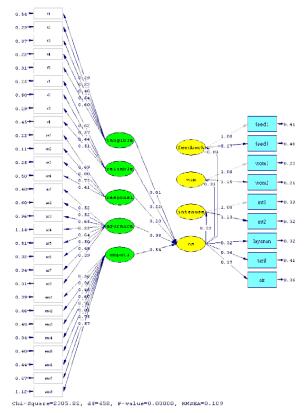
Collected data shows that 70% customer of PDAM Ungaran use clean water from PDAM only, and the rest customer use PDAM and deep-well. 42,9% customer of PDAM have 3-4 family members, and 38,1% have 5-6 family members. Small families consume less water than bigger families. More than 78% customer have already used PDAM for at least 6 years. It shows a lot of customers have a loyality to PDAM, and only 4,8% that being a new customer. Approximately 26,2% has monthly income that range IDR 1.5 million -2 million and 40% has more than IDR 2 million. Monthly income that range IDR 1,5 million - more than IDR 2 million is enough to cover daily water needs. Most rate of flows in distribution area is normal (75,7%), only a few that is abnormal. PDAM has already fulfill water flowrate from customer requirements well. Consumtion of 38,1% customer is about 15m3 untill 20 m3, and 33,8% customers spend 20m3 – 45m3. 40% PDAM customers have to pay IDR 50.000 -100.000 in their invoce. And only 32,9% customers have to pay IDR 100.000 in their invoice.

Total Structural Model

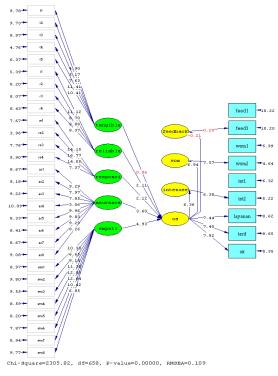
This picture below shows total structural model of SERVQUAL, total satisfaction, and behavioural intention :



Picture 1 Total Structural Model of Total Satisfaction, SERVQUAL, and behavioural intention



Picture 2 Total Structural Model (Estimates)



Picture 3 Total Structural Model (*T-value*)

Indikator Fit Index

Here are fit indexes which will discussed in this research, such as degree of freedom (DF), Chi Square, Probability, Root Mean Square Error Of Approximation (RMSEA), Goodness Of Fit (GFI), Adjusted Goodness Of Fit (AGFI) dan Comparative Fit Index (CFI). Many requirements that has to be fulfilled, and so the constructed model could be used in this research (indentical to empirical data). Output of SEM in LISREL 8.80 are datas that contain fit indicators, as shown below :

Table 1 Fitted-Index Indices

Tested	Validity	Estimates	Notifica
Statistics			tion
Chi-	Less value	2195.36	Almost fine
Square	better		
P-value	p>0.05	0	Almost fine
NCP	Less value better	164.78	Almost fine
Interval	Narrow interval	(150.53 ; 179.79)	Almost fine
RMSEA	0.05 < RMS EA ≤ 0.90	0.109	Almost fine
ECVI	Lower value or closer to ECVI for saturated model	Model = 11.83 Saturated = 17.09 Independen ce = 68.33	Good

Tested	Validity	Estimates	Notificatio
Statistics			n
AIC	Lower value or	AIC Model=	Good
	closer to	1428.17	
	AIC for	AIC	
	saturated	Saturated=1	
	model	471.82	
		AIC	
		independenc	
CAIC	Lower	e=1482.00 CAIC	Good
CAIC	value or	Model=	0000
	closer to	1444.69	
	CAIC for	CAIC	
	saturated	Saturated=2	
	model	832.63	
		CAIC independenc	
		e=4703.21	
NFI	≥ 0.90	0.85	Almost fine
NNFI	≥ 0.90	0.88	Almost fine
PNFI	≥ 0.90	0.89	Almost fine
CFI	≥ 0.90	0.89	Almost fine
IFI	≥ 0.90	0.89	Almost fine
RFI	≥ 0.90	0.83	Good
CN	\geq 200	271.96	Good
RMR	Standardiz	0.037	Good
	$ed \leq 0.05$		
GFI	$0.80 \leq \text{GFI}$	0.93	Good
	≤ 0.90		
AGFI	$0.80 \leq AG$	0.89	Good
	$FI \leq 0.90$		
PGFI	$0.80 \leq PG$	0.86	Good
	$FI \leq 0.90$		

Source : LISREL output

Based on fit indicators table, constructed model can be implemented to measure satisfaction and its correlation to behavioural intention and service quality dimensions

Measurement model output

Output of measurement model shows a path diagram of latent endogen variable which contain t-value (measurement of construct significancy), standardized solution (parameter value for showing direction of correlation and effect grades), and also mathematics equation in structural model. Eksogen variables are tangible, reliability, responsiveness, assurance, and emphaty. The latent endogen variables are overall satisfaction, feedback, word-ofmouth, and intensity-of-usage.

Path	t-value	Parameter index	Notification
Tangibles \rightarrow os	0.06	0.01	+ (not significant)
Reliability \rightarrow os	2.11	0.22	+ (significant)
$\begin{array}{c} \text{Resposiveness} \rightarrow \\ \text{os} \end{array}$	2.12	0.20	+ (significant)
Assurance \rightarrow os	3.60	0.38	+ (significant)
Emphaty \rightarrow os	4.93	0.54	+ (significant)
os \rightarrow Feedback	-0.21	- 0.01	- (not siginificant)
os →Word-of- Mouth	6.94	0.31	+ (significant)
os →Intention of usage	6.36	0.32	+ (significant)

Source : LISREL output

Hypothesis Evaluation

- Hypothesis 1 :

- 1. Tangibles Variable
 - Data output LISREL 8.80 shows t-value = 0.06, that means t-value is in denial range (0.06 < 1.96). Base on that t-value, H₀ cant be accepted. It states that hypothesis 1.1 is not acceptable. Inconclusion tangible variable is not significant to total satisfaction and has positive correlation
- 2. Reliability Variable

Data output LISREL 8.80 shows t-value = 2.11, that means t-value is in acceptance range (2.11>1.96). Base on that t-value, H₀ can be accepted. It states that hypothesis 1.2 is acceptable. Inconclusion reliability variable is significant to total satisfaction and has positive correlation

3. Responsiveness Variable

Data output LISREL 8.80 shows t-value = 2.12, that means t-value is in acceptance range (2.12> 1.96). Base on that t-value, H_0 can be accepted. It states that hypothesis 1.3 is acceptable. Inconclusion responsiveness variable is sinificant to total satisfaction and has positive correlation

4. Assurance Variable

Data output LISREL 8.80 shows t-value = 3.60, that means t-value is in acceptance range (3.60 > 1.96). Base on that t-value, H₀ can be accepted. It states that hypothesis 1.4 is acceptable.

Inconclusion assurance variable is significant to total satisfaction and has positive correlation

5. Emphaty Variable

Data output LISREL 8.80 shows t-value = 4.93, that means t-value is in acceptance range (4.93 > 1.96). Base on that t-value, H₀ can be accepted. It states that hypothesis 1.5 is acceptable. In conclusion emphaty variable is significant to total satisfaction and has positive correlation

Hipotesis 2 :

Data output LISREL 8.80 shows tvalue = -0.21, that means t-value is in denial range (-0.21< -1.96). Base on that t-value, H_0 cant be accepted. It states that hypothesis 2 is not acceptable. In conclusion total satisfaction is not significant to feedback and has negative correlation

Hipotesis 3 :

Data output LISREL 8.80 shows tvalue = 6.94, that means t-value is in acceptance range (6.94> 1.96). Base on that t-value, H_0 can be accepted. It states that hypothesis 3 is acceptable. In conclusion total satisfaction is significant to word-of-mouth and has positive correlation

Hipotesis 4 :

Data output LISREL 8.80 shows tvalue = 6.36, that means t-value is in acceptance range (6.36 > 1.96). Base on that t-value, H₀ can be accepted. It states that hypothesis 4 is acceptable. In conclusion total satisfaction is significant to behavioural intention and has positive correlation

Effect Decomposition

In Effect Decomposition output (Total Effects of ETA on Y), overall satisfaction variable effect shows insignificancy to feedback variable indicators (feed1 and In relationship feed3). with other indicators, total satisfaction variable shows equal effect to indicator wom2 and int2 that is 0.36. Besides, total satisfaction (os) effect to int1 is about 0.32. Total satisfaction has effect value to water about 0.37, to tariff about 0.36, and to services about 0.32.

SERVQUAL dimensions have total effect to behavioural intention indicators and total satisfaction indicators. In conclusion, tangible variable has no effect satisfaction to total indicators and behavioural intention. Realiability variable has equal effect value to wom1, int1, and services appoximately 0.07. In addition, realibility variable has effct value to wom2, int2, tariff, and water about 0.08. It shows reliability has bigger effect to tariff, water, wom2 (quality recommendation), and int2 (intensity of usage) than to others.

Indirect Effects of ETA on Y shows that total satisfaction variable has equal indirect effect to indicator wom2 and indicator int2 about 0.36. Besides, indirect effect of total satisfaction variable to wom1 0.31 and int1 0.32

Standardized Solution

Benefit of standardized method is to make interpretaion of bivariate correlation between latent variables easier. Correlation has value from 0 to 1. Closer to 1, the higher level of correlation.

Correlation Matrix of ETA and KSI evaluates that there is significant correlation of word-of-mouth to intensity of usage and total satisfaction, also correlation of total satisfaction and emphaty. Total satisfaction has more significant correlation to word-ofmouth than to intensity of usage. In SERVQUAL dimensions, assurance and emphaty has most significant correlation to total satisfaction. But emphaty has higher value of correlation than assurance.

Regression Matrix ETA on KSI (Standardized) shows emphaty has biggest effect to total satisfaction about 0.44. Each dimension has effect to total satisfaction; assurance (0.31), reliability (0.18), and responsiveness (0.16). In contrast, tangible variable has no effect at all. Emphaty and assurance have bigger effect than responsiveness and reliability to word-ofmouth and intensity of usage. Responsiveness has less effect than others word-of-mouth behavioural to and because responsiveness intention, is variable that underlines fast/slow respons to customer requirements of water new installation (to their homes). Customers did not mind about it (no significance effect to level of satisfaction)

CONCLUSION

Customers really care about reliability, responsiveness, assurance, and emphaty of service. Because of that, those factors are important value in gaining total satisfaction from servcie quality sectors. But oppositely, tangible factor does not give significant effect to total satisfaction. Tangible factor contains water appearance quality, payment note, and cashier counter. In PDAM these 3 services has already had standard, so customers will receive the same services in all condition. Customers not really mind about that. Because so far, customers need good flowrate of water.

Evaluation of total satifaction variable behavioural intention and : Total significant satisfaction has correlation positively to word-of-mouth and itnensity of usage. Positive correlation means the more satisfied customer will make more recommendation to others and more In other side, total intensity of usage. satisfaction has a negative correlation to feedback and not significant. Negative correlation means the less satisfied cutomer will cause higher feedback (complaints). Desire to give feedback affects significancy of relationship, it means satified or unsatisfied customer will not give any complaints or advices to company (PDAM)

In providing services PDAM should pay more attention to customer especially showing emphaty to them, and PDAM has to give assurance of products and services to customer. It can make sure customers that they use the right service provider and best-quality water. Beside that, emphaty to customer and assurance of services rise up satisfaction level the most significant. If customers has satisfied, it will give bigger opportunity to PDAM to obtain higher income through intensity of water they use and new customers from recommendation

Limitations

In this research, there are still many variables to be added to measure total satisfaction in public service (such as PDAM). PDAM is one of public sectors that cover daily water needs of ungaran citizens. And PDAM implemented Good Corporate Governance. Next researcher should review GCG and public services journals to define indicators that should be considered. Getting bigger sample will more represent and generalize the real condition in Ungaran citizens.

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