

Among Subscribers of Two Biggest Telecommunication Providers in Indonesia: What Factors are Involved in Customer Retention?

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Abstract

The study objective was to compare influencing factors on customer retention of two brands – SimPATI and IM3 – of telecommunication services owned by Telkomsel and Indosat, two giant mobile telecommunication providers in Indonesia. The authors applied predictor variables including perceived tariff, perceived quality, switching barriers, and customer satisfaction. These variables were used after reviewing literature in quantitative studies on consumer behaviour relating to telecommunication services. This study used indicators adopted and adapted from literature. The quantitative data were gathered in Jakarta, involving 205 subscribers of SimPATI and 202 subscribers of IM3. The authors selected respondents purposively. Data were analysed using both exploratory and confirmatory factor analyses. Two fitted models were developed confirming factors that were involved in customer retention as stated on the proposed model: perceived tariff, perceived quality, switching barriers, and customer satisfaction. However, parts of the hypotheses were rejected.

Keywords

Customer retention, switching barriers, telecommunication providers, structural equation model, SimPATI, IM3, Indonesia

1. INTRODUCTION

Most studies on customer behaviour in mobile telecommunication services took place in Africa and Asia, particularly relating to customer retention, perceived tariff, customer satisfaction, perceived service quality, and switching barriers. In Africa, for example, Oyeniya and Joachim (2008) in Nigeria; Ocloo and Tsetse (2013) and Antwi-Boateng, Owusu-Prempeh, and Asuamah (2013) in Ghana; Katono (n.d.) in Uganda;

Furthermore, in South Asia including Iqbal, Zia, Bashir, Shahzad, and Aslam (2008), Aamir, Ikram, and Zaman (2010), Siddiqui and Javed (2012), Kouser, Qureshi, Shahzad, and Hasan (2012), and Afzal, Chandio, Shaikh, Bhand, and Ghumro (2013) in Pakistan; Rajkumar and Charlas (2012), Sathish, Kumar, Naveen, and Jeevanantham (2011), Charlas, Rajkumar, Kogila, Lydia, and Noorunisha (2012), and Kumar and Singh (2008) in India; In South East Asia, including Utrestantix, Warokka, and Gallato (2012) in Indonesia; Habib, Salleh, and Abdullah (2011) in Malaysia. In East Asia, including M.-K. Kim, Park, and Jeong (2004) in Korea; Chen and Myagmarsuren (2011) in Taiwan; (Guo, Zhang, Wang, & Li, n.d.) in China; it may show that in these continents, the telecommunication service industry is developing and dynamic. In addition, studies with different setting of regions also can be found, for example, in the USA (Shin & Kim, 2008) and in Germany (Gerpott, Rams, & Schindler, 2001).

To select which variables to predict customer retention, the authors identified variables used by existing literature in the telecommunication industry. The table below indicates that perceived tariff, customer satisfaction, perceived service quality, and switching barriers were chosen to predict customer retention.

Table 1-factor analysis results of perceived tariff

| Perceived tariff | Perceived service quality | Switching barriers | Customer satisfaction | Customer retention | Sources |
|------------------|---------------------------|--------------------|-----------------------|--------------------|---------------------------------|
| ● | | | ● | ● | Ali et al. (2010) |
| ● | ● | | | ● | Blery et al. (2009) |
| | | ● | ● | ● | Oyeniya and Abiodun (2010) |
| | | | ● | ● | Dzisah (2013) |
| | | | ● | ● | Katono (n.d.) |
| | | ● | ● | | Kyriazopoulos and Rounti (2007) |
| | ● | | ● | | Mabkhot (2010) |
| | | ● | ● | ● | Sari and Suryadi (2013) |

The main objective of this study is addressed to examine a model to predict customer retention of two telecommunication service providers in Indonesia.

2. Literature review

This study is conducted based on literature on customer retention in telecommunication service industry. As mentioned above, there are four predictor variables to be included to predict customer intention (see the table below).

According to Kyriazopoulos and Rounti (2007), Shahzad Khan (2012), and Khuhro, Azahr, and Bhutto (2011), customer satisfaction is influenced by perceived tariff. Their studies indicated that the influence is significant and positive. Furthermore, Deng, Lu, Wei, and Zhang (2010) and Mabkhot (2010) proved that customer satisfaction is influenced significantly and positively by perceived service quality.

Perceived tariff might have a significant and a positive link with customer retention as studied by Ranaweera and Neely (2003) and Molapo and Mukwada (2011). In addition, customer satisfaction also might have a significant and positive link with customer retention as studied by Dzisah (2013), Katono (n.d.), Novianti, Suryoko, and Nugroho (2013), Oyeniyi and Abiodun (2010), and Peighambari (2007).

Furthermore, Ranaweera and Neely (2003) and Molapo and Mukwada (2011) in their studies tested a link between perceived service quality and customer retention. As a result, these scholars found that there was a significant and positive link between those variables.

The last predictor variable in this study is switching barriers. This variable, according to Oyeniyi and Abiodun (2010), Peighambari (2007), and Sari and Suryadi (2013) had a significant and positive link with customer retention.

Table 2-List of literature referenced in this study

| Independent variable | | Dependent variable | | Sources |
|---------------------------|---|-----------------------|-----|--|
| Perceived tariff | → | Customer satisfaction | (+) | Kyriazopoulos and Rounti (2007), Shahzad Khan (2012), Khuhro et al. (2011) |
| Perceived tariff | → | Customer retention | (+) | Ranaweera and Neely (2003), Molapo and Mukwada (2011) |
| Customer satisfaction | → | Customer retention | (+) | Dzisah (2013), Katono (n.d.), Novianti et al. (2013), Oyeniyi and Abiodun (2010), Peighambari (2007) |
| Perceived service quality | → | Customer satisfaction | (+) | Deng et al. (2010), Mabkhot (2010) |
| Perceived service quality | → | Customer retention | (+) | Ranaweera and Neely (2003), Molapo and Mukwada (2011) |
| Switching barriers | → | Customer retention | (+) | Oyeniyi and Abiodun (2010), Peighambari (2007), Sari and Suryadi (2013) |

2.1. The proposed model

According to previous researchers who studied on telecommunication services, customer retention might have direct relations with perceived tariff, customer satisfaction, perceived service quality, and switching barriers (Ali et al., 2010; Blery et al., 2009; Oyeniyi & Abiodun, 2010).

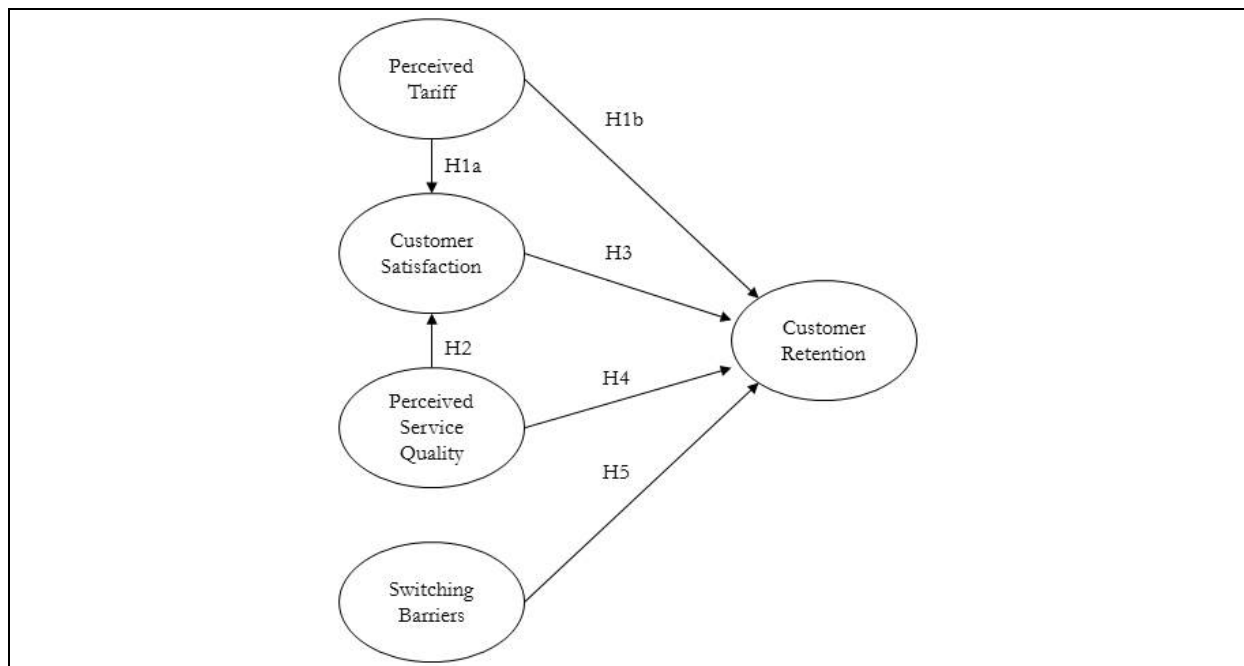


Figure 1-The proposed model

2.2. Hypotheses

There were six hypotheses to be tested in this study as follow:

- H1a There is a positive and significant link between perceived tariff and customer satisfaction.
- H1b There is a positive and significant link between perceived tariff and customer retention.
- H2 There is a positive and significant link between perceived service quality and customer satisfaction.
- H3 There is a positive and significant link between customer satisfaction and customer retention.
- H4 There is a positive and significant link between perceived service quality and customer retention.
- H5 There is a positive link and significant link between switching barriers and customer retention.

3. Methods

3.1. Instrument

To develop the instrument, the authors adapted indicators used and validated by existing researchers, including Mokadikwa (2008), Zhang and Feng (2009), B. Kim (2010), and Shin and Kim (2008) for perceived tariff variable. For customer satisfaction variable, the indicators were from studies conducted by Shin and Kim (2008), Zhang and Feng (2009), and Qian, Peiji, and Quanfu (2011).

Furthermore, indicator for perceived service quality variable were adapted from Shin and Kim (2008) and Nurfarhana (2012). For switching barriers variables were taken from Shin and Kim (2008), Peighambari (2007), and Martins, Hor-Meyll, and Ferreira (2013) whereas for customer retention indicators were from (Peighambari, 2007) and Bakar and Diantono (2010).

3.2. Pilot study

A pilot study was conducted involving university students in Jakarta, 50 of simPATI subscribers and another 50 of IM3 subscribers. Based on a validity test using factor analysis, some indicators were dropped or revised.

3.3. Respondent profile

In total, 407 respondents participated, consisted of 205 simPATI subscribers (118 males and 87 females) and 202 IM3 subscribers (99 males and 103 females).

3.4. Data analysis

All data were analysed using exploratory factor analysis using SPSS version 22 and confirmatory factor analysis using AMOS version 21.

4. Findings and discussion

4.1. Perceived tariff

EFA produced two dimensions of perceived tariff. The first dimension consisted of ten indicators with factor loadings ranging from 0.542 to 0.709 and the second dimension consisted of three indicators with factor loadings ranging from 0.813 to 0.836 (see the table below).

Table 3-Factor analysis results of perceived tariff

| | Attractiveness | Factor loadings |
|-------|---|-----------------|
| PT 6 | The fee that I have to pay for the use of Mobile Data Services is too high. | 0.709 |
| PT 7 | I am pleased with the fee that I have to pay for the use of Mobile Data Services. | 0.699 |
| PT 8 | This operator took effective ways to help us know its pricing policies of product and services. | 0.677 |
| PT 12 | A good service provider offer more features at a cheaper rate or at a rate equal to competitor. | 0.665 |
| PT 4 | Service providers should offer globally competitive pricing. | 0.662 |
| PT 9 | The pricing policies of products and services from this operator are attractive. | 0.652 |
| PT 13 | This operator is offering flexible pricing for various services that meet my needs. | 0.644 |
| PT 10 | I think the price for the mobile service is reasonable. | 0.638 |
| PT 11 | I will continue to stay with this operator unless the price is significantly higher for the same service. | 0.630 |
| PT 5 | I think the monthly charge for the mobile use is reasonable. | 0.542 |
| | Cronbach's alpha | 0.852 |
| | Fairness | |
| PT 2 | I am pleased with the fee that I have to pay for the use of mobile data services. | 0.836 |
| PT 1 | The pricing policies of products and services from this operator are attractive. | 0.813 |
| PT 3 | This operator took effective ways to help us know its pricing policies of products and services. | 0.813 |
| | Cronbach's alpha | 0.775 |

These results of EFA were further examined using CFA. All indicators retained and formed a fitted model with probability value of 0.056, CMIN/DF of 1.326, CFI of 0.987, and RMSEA of 0.028 (see the figure below).

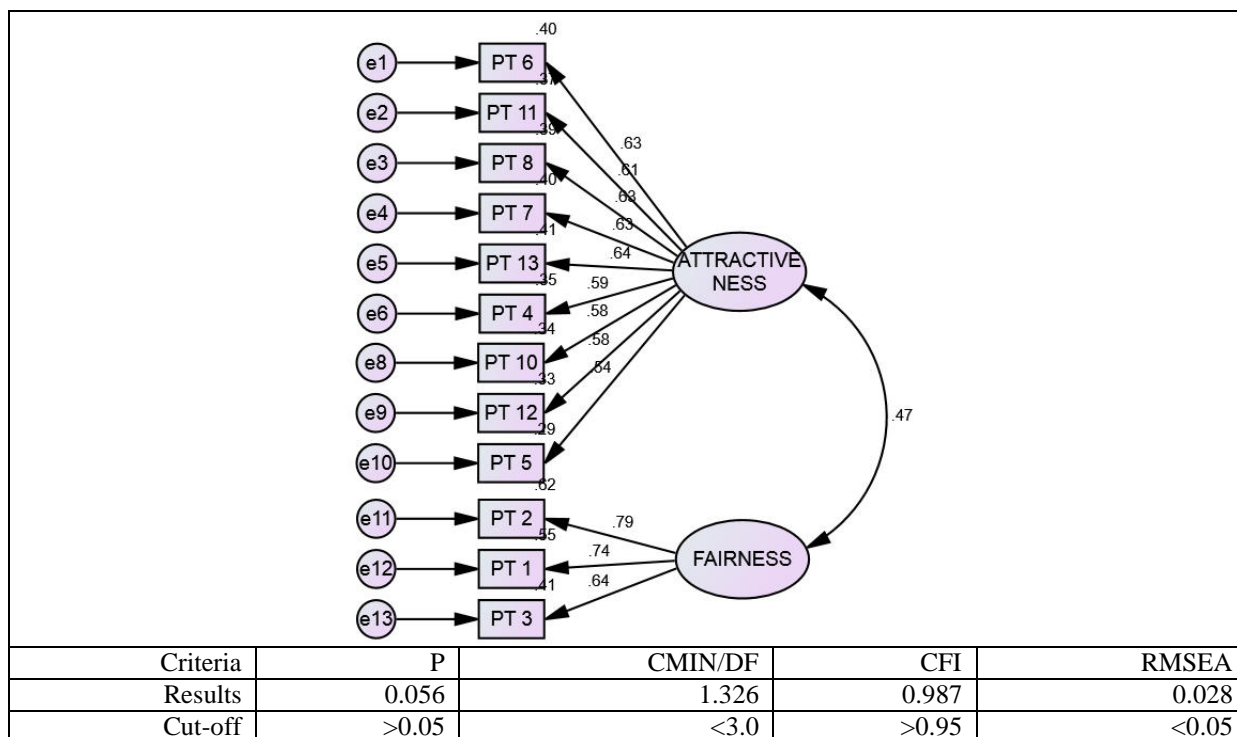


Figure 2-Confirmatory factor analysis result of perceived tariff

4.2. Customer satisfaction

Indicators of customer satisfaction were tested using EFA. It produced two dimensions. Six indicators for the first dimension had factor loadings ranging from 0.573 to 0.760 whereas four indicators for the second dimensions had factor loadings ranging from 0.709 to 0.853 (see the table below).

Table 4-Factor analysis results of customer satisfaction

| | Performance | Factor Loadings |
|-------------|---|-----------------|
| KP 1 | I am satisfied with the current service. | 0.760 |
| KP 8 | I am satisfied with the professional competence of this operator. | 0.733 |
| KP 9 | I am satisfied with the performance of the frontline employees of this operator. | 0.705 |
| KP 2 | The current service meets all the requirements that I see reasonable. | 0.704 |
| KP 10 | I am comfortable about the relationship with this operator. | 0.702 |
| KP 7 | I am satisfied with the overall service quality offered by this operator. | 0.573 |
| | Cronbach's alpha | 0.758 |
| Expectation | | |
| KP 5 | I think this telecom company has successfully provided mobile data service. | 0.853 |
| KP 6 | This mobile data service is better than expected. | 0.839 |
| KP 4 | I am satisfied with the data services provided by this telecom company. | 0.809 |
| KP 3 | The mobile data services provided by my service provider can address my requirements. | 0.709 |
| | Cronbach's alpha | 0.818 |

The two dimensions and their indicators as indicated in the table above survived in CFA and carried out a fitted model with probability of 0.208, CMIN/DF of 1.213, CFI of 0.994, and RMSEA of 0.023 (see below).

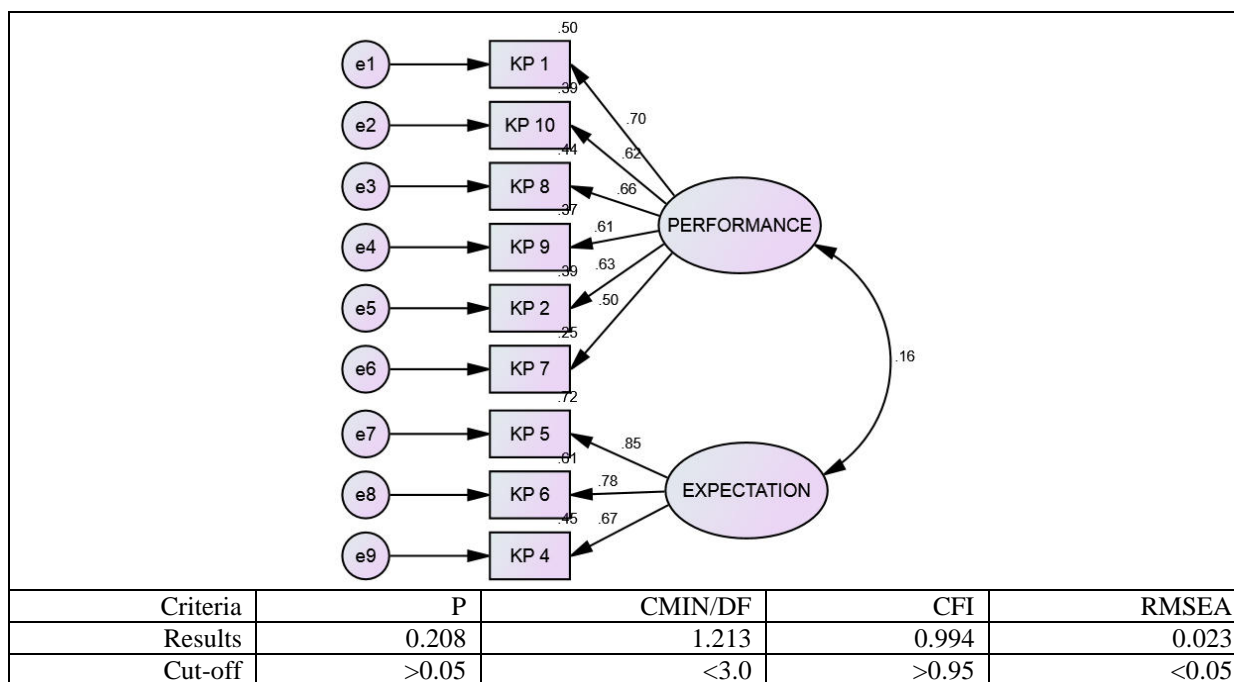


Figure 3-Confirmatory factor analysis result of customer satisfaction

4.3. Perceived service quality

Four dimensions were formed after examining perceived service quality indicators. The first dimension contained six indicators with factor loadings ranging from 0.636 to 0.717. Further, the second indicators had six indicators too with factor loadings ranging from 0.531 to 0.696. The third and fourth dimensions each owned three indicators.

Table 5-Factor analysis results of perceived service quality

| | Function | Factor loadings |
|--------|---|-----------------|
| PKP 4 | When I face a problem, my mobile operator solve it seriously. | 0.717 |
| PKP 18 | Jam operasi operator seluler Anda fleksibel. | 0.701 |
| PKP 5 | My mobile operator keep informing subscribers when the service would be delivered. | 0.695 |
| PKP 2 | My mobile service provides a quality of content and services that I need | 0.642 |
| PKP 3 | When my mobile operator promised to do something at a certain time, they could keep it. | 0.636 |
| PKP 1 | I think that my current mobile operator satisfying services. | 0.636 |
| | Cronbach's alpha | 0.798 |
| | Reliability | |
| PKP 7 | The customer service team are always (ready) willing to help me. | 0.696 |
| PKP 6 | The customer service team give me a proper care. | 0.693 |
| PKP 8 | The customer service team are always available to serve me. | 0.652 |
| PKP 9 | Behavior of the customer service team make me confident. | 0.560 |
| PKP 10 | I feel safe conducting transactions with my mobile operator. | 0.531 |
| PKP 11 | The customer service team are polite to me consistently. | 0.403 |
| | Cronbach's alpha | 0.645 |
| | Tangible | |
| PKP 15 | Equipment of by my mobile operator look modern. | 0.768 |
| PKP 17 | The customer service crew look neat. | 0.666 |
| PKP 16 | Phisical facilities of by my mobile operator look interesting. | 0.635 |
| | Cronbach's alpha | 0.558 |
| | Competence | |
| PKP 14 | The customer service team of my mobile operator understand my specific needs. | 0.713 |
| PKP 13 | My mobile operator is the best for me. | 0.711 |
| PKP 12 | The customer service team of my mobile operator have enough knowledge to answer my questions. | 0.623 |
| | Cronbach's alpha | 0.663 |

CFA produced a fitted model with probability of 0.017, CMIN/DF of 1.261, CFI of 0.980, and RMSEA of 0.025.

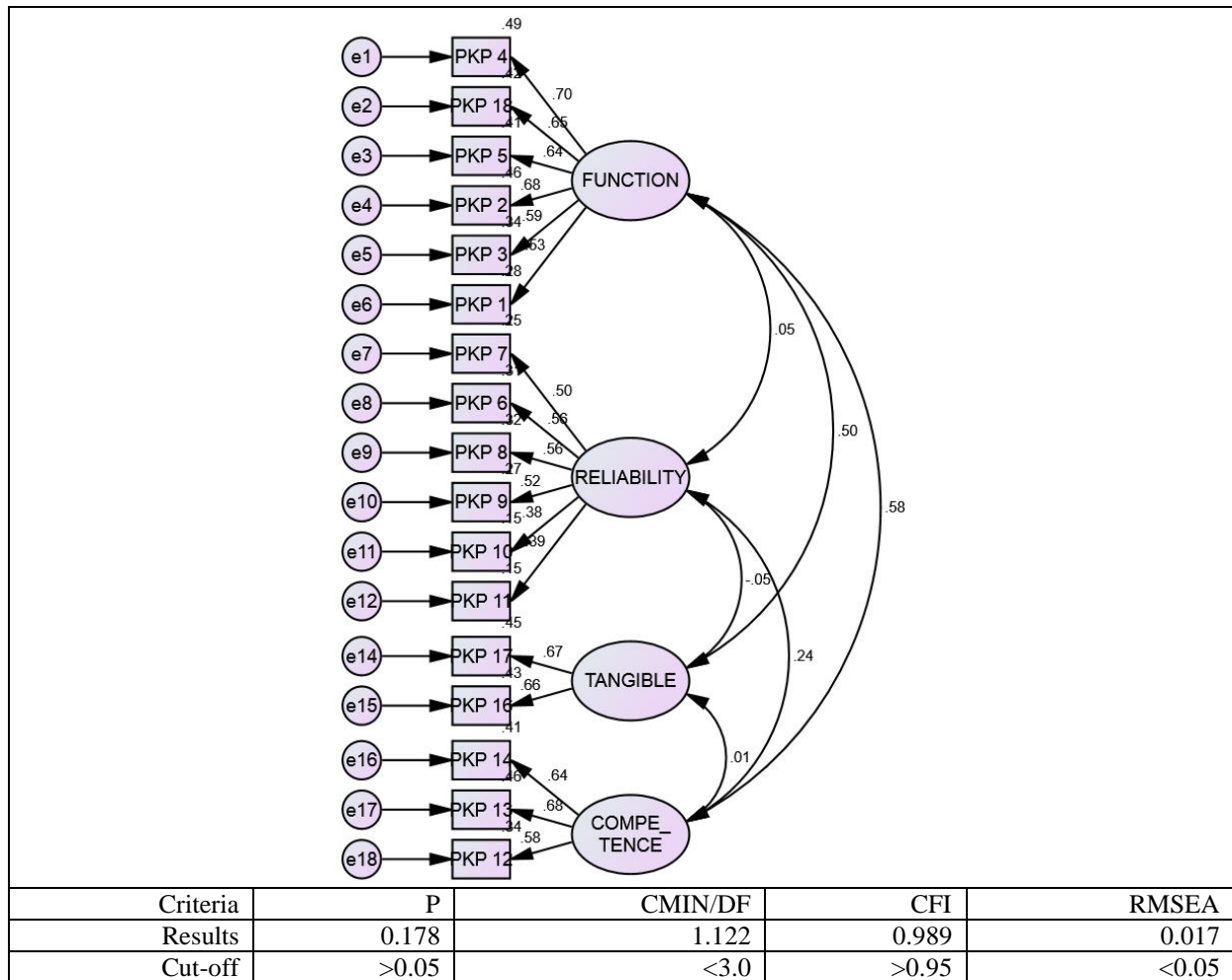


Figure 4-Confirmatory factor analysis result of perceived service quality

4.4. Switching barriers

Three dimensions of switching barriers variable were carried out from exploratory factor: first dimension, with 12 indicators and factor loadings ranging from 0.554 to 0.710; second, with three indicators and factor loadings range from 0.665 to 0.772; third, with four indicators and factor loadings range from 0.502 to 0.645.

Table 6-factor analysis results of perceived tariff

| | Switching cost | Factor loadings |
|-------|--|-----------------|
| SB 3 | It takes a lot of time to get information about other carrier | 0.710 |
| SB 15 | I hate spending time finding a new mobile service provider | 0.697 |
| SB 1 | It is difficult for me to use other carrier | 0.691 |
| SB 18 | It would cost me a lot of money to switch from my mobile operator to another mobile operator | 0.680 |
| SB 10 | It would cost me a lot of effort to switch from my mobile operator to another mobile operator. | 0.674 |
| SB 6 | I would feel uncertain if i have to choose a new mobile service provider. | 0.671 |
| SB 19 | It would be complicated for me to change carrier. | 0.670 |
| SB 5 | I would miss my mobile operator if i change | 0.633 |
| SB 4 | I feel there is a bond between My mobile operator and myself. | 0.599 |
| SB 17 | I'm not certain about the quality of services that other operators will provide me with. | 0.591 |
| SB 16 | I hate re-registering to another mobile service provider. | 0.570 |
| SB 2 | I will lose a friendly and comfortable relationship with my mobile operator if I change. | 0.554 |
| | Cronbach's alpha | 0.848 |
| | Attractiveness of alternative | |
| SB 7 | In general it would be a hassle changing carriers. | 0.772 |
| SB 8 | If i change, there is a risk a new mobile operator won't be as good as My mobile operator. | 0.688 |
| SB 9 | It would cost me a lot of effort to switch from my mobile operator to another mobile operator. | 0.665 |
| | Cronbach's alpha | 0.647 |
| | Interpersonal relationship | |
| SB 13 | I'm very likely to switch to another mobile service provider. | 0.645 |
| SB 12 | I trust on my mobile operator more than mobile service providers. | 0.638 |
| SB 11 | I like the public image of my mobile operator | 0.617 |
| SB 14 | I do not care about the brand/company name of the service provider I use. | 0.502 |
| | Cronbach's alpha | 0.329 |

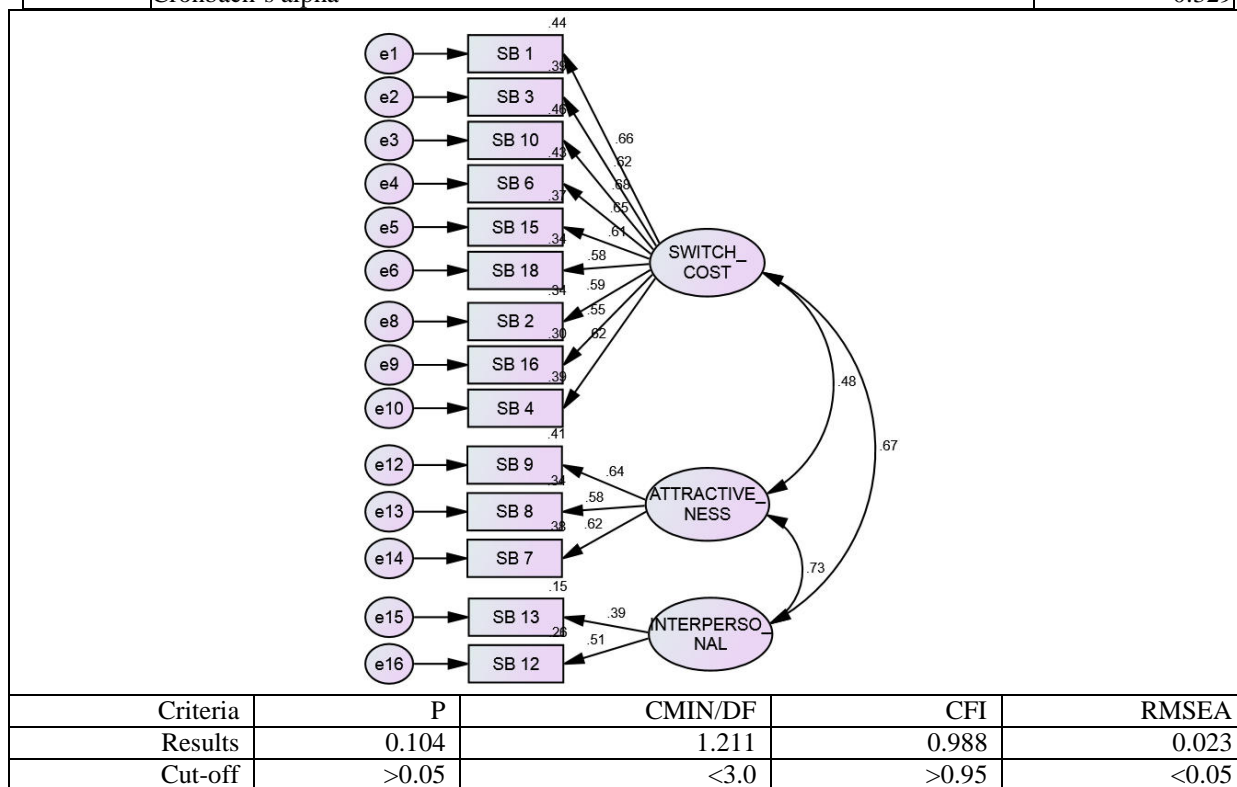


Figure 5-Confirmatory factor analysis result of switching barriers

4.5. Customer retention

Two dimensions of customer retention came out from EFA. The first dimension kept seven indicators with factor loadings ranging from 0.640 to 0.726 whereas the second dimension owned three indicators with factor loadings ranging from 0.804 to 0.815.

Table 7-factor analysis results of retention

| | Priority of using | Factor loadings |
|--------------------|--|-----------------|
| RT 2 | I plan to continue my relationship with my mobile operator in future. | 0.726 |
| RT 3 | I would recommend my mobile operator as the best mobile service provider in the area. | 0.723 |
| RT 1 | If I had needed mobile services now, my mobile operator would be my first choice. | 0.704 |
| RT 4 | I would encourage friends and relatives to do business with my mobile operator. | 0.699 |
| RT 10 | I prioritise more to use the cellular card issued by my mobile operator as my cellular card. | 0.681 |
| RT 6 | I have said positive things about my mobile operator to others | 0.680 |
| RT 5 | I'm very loyal to my mobile operator. | 0.640 |
| | Cronbach's alpha | 0.822 |
| Intensive of using | | |
| RT 7 | I consider my mobile operator as my first choice for mobile service. | 0.815 |
| RT 8 | I often recharge for services of my mobile operator. | 0.809 |
| RT 9 | I often use services of my mobile operator. | 0.804 |
| | Cronbach's alpha | 0.739 |

In a structural equation model test, these two dimensions and all indicators retained and shaped a fitted construct with probability of 0.433, CMIN/DF 1.021, CFI of 0.999, and RMSEA of 0.007.

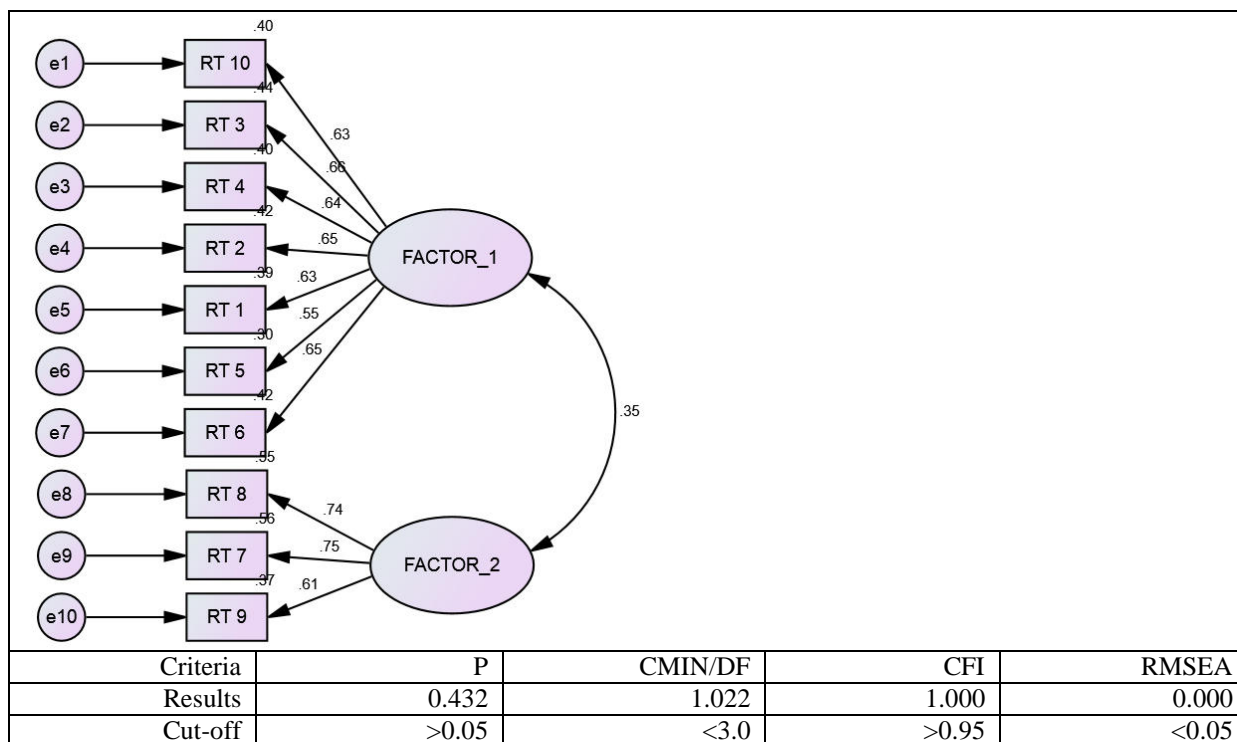


Figure 6-Confirmatory factor analysis result of customer retention

4.6. Constructs testing

Two competing fitted models were developed to predict customer retentions of simPATI and IM3 subscribers.

4.7. The fitted first model

In the first model, perceived tariff, customer satisfaction, and perceived service quality were retained whereas switching barrier was dropped due to insignificance. Perceived tariff and customer satisfaction had a direct link to customer retention.

On the other hand, perceived tariff also had an indirect link to customer retention as well as perceived service quality as they had to be mediated by customer satisfaction. The link between perceived tariff and customer retention was 0.96 and considered as the highest standardised weight among other links. All links were in positive forms. This fitted model had probability value of 0.835, CMIN/DF of 0.899, CFI of 1.000, and RMSEA of 0.00.

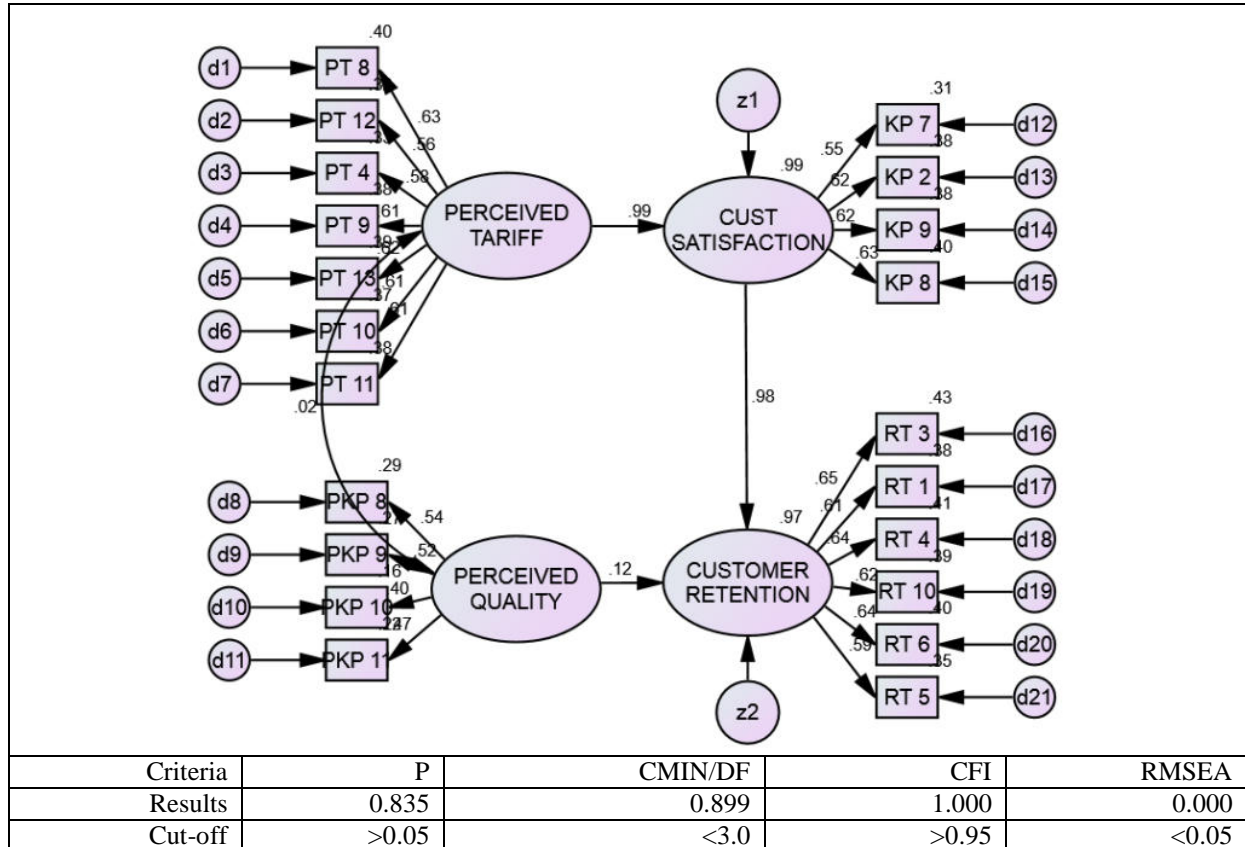


Figure 7-Confirmatory factor analysis result of the first fitted model

In total, three hypotheses (H1a, H3, and H4) were significant and supported by literature whereas another three hypotheses (H1b, H2, and H5) were insignificant (see the table below). Two of the hypotheses have very strong total effect scores (H1a and H3) and a hypothesis (H4) has a weak total effect score.

Table 8-Summary of significant hypotheses

| Hypothesis | Dependent variable | Independent variable | t.value | Total effect | Inter-pretation | Significant/ insignificant |
|------------|--------------------|----------------------|---------|--------------|-----------------|----------------------------|
| H1a | PT | CS | 9.436 | 0.994 | Very strong | Significant |
| H1b | PT | CR | - | - | - | Insignificant |
| H2 | PSQ | CS | - | - | - | Insignificant |
| H3 | CS | CR | 9.860 | 0.978 | Very strong | Significant |
| H4 | PSQ | CR | 2.469 | 0.117 | Weak | Significant |
| H5 | SB | CR | - | - | - | Insignificant |

Note: PT-Perceived Tariff, CS-Customer Satisfaction, PSQ-Perceived Service Quality, SB-Switching Barriers, CR-Customer Retention

4.8. The second fitted model

In the modification model, two hypotheses were significant (H3 and H4). On the other hand, four hypotheses were insignificant, including H1a, H1b, H2, and H5 (see the table below). The output of confirmatory factor analysis suggested a new link between switching barriers and customer satisfaction with t-value of 6.138 and total effect score of 0.618 which was considered a strong influence. Further, a hypothesis (H3) is considered with a very strong total effect (0.969), a hypothesis (H4) with a strong total effect (0.618), and a hypothesis with a very weak total effect (0.114).

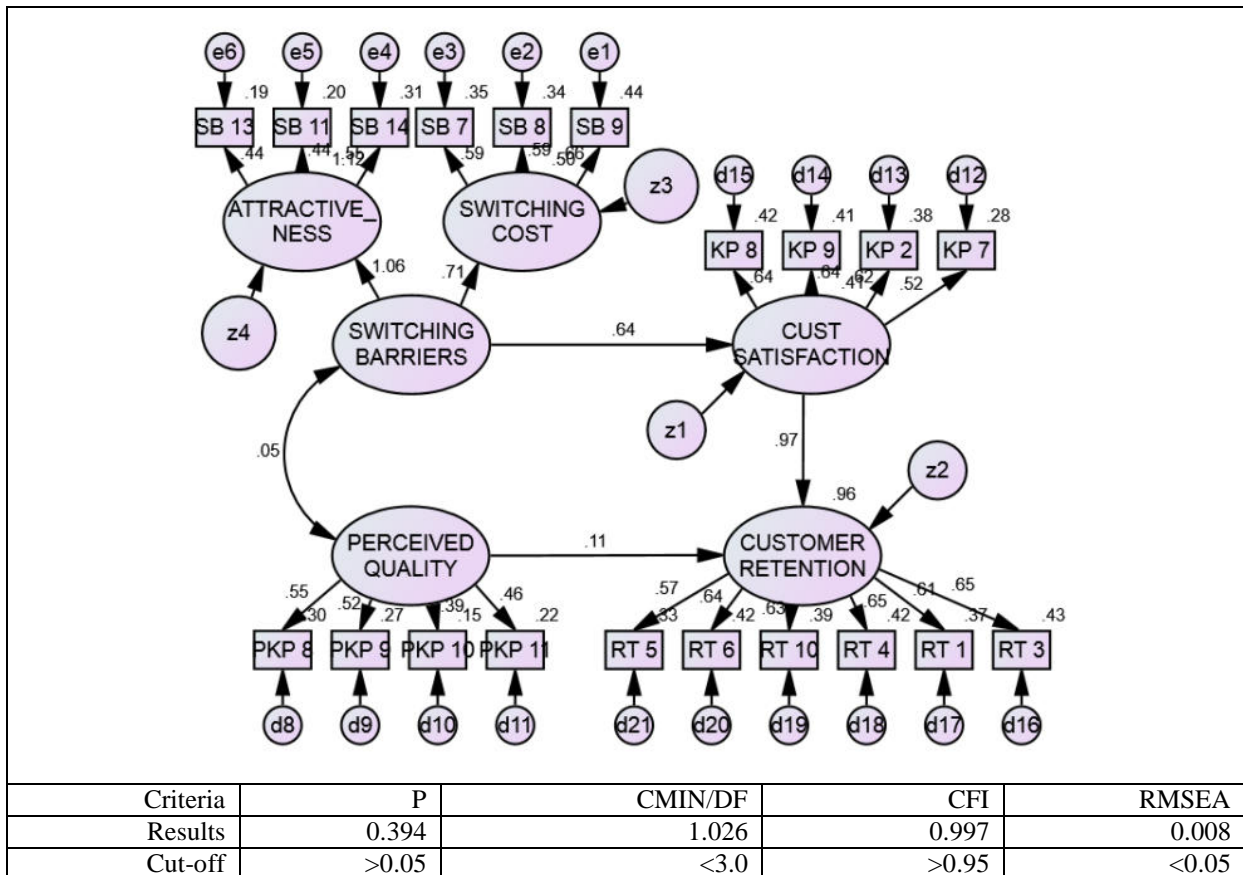


Figure 8-Confirmatory factor analysis result of the second fitted model

Table 9-Summary of significant hypotheses

| Hypothesis | Dependent variable | Independent variable | t.value | Total effect | Inter-pretation | Significant/ insignificant |
|------------|--------------------|----------------------|---------|--------------|-----------------|----------------------------|
| H1a | PT | CS | - | - | - | Insignificant |
| H1b | PT | CR | - | - | - | Insignificant |
| H2 | PSQ | CS | - | - | - | Insignificant |
| H3 | CS | CR | 8.877 | 0.969 | Very strong | Significant |
| H4 | PSQ | CR | 2.171 | 0.114 | Very Weak | Significant |
| H5 | SB | CR | - | - | - | Insignificant |
| - | SB | CS | 6.138 | 0.618 | Strong | New link |

Note: PT-Perceived Tariff, CS-Customer Satisfaction, PSQ-Perceived Service Quality, SB-Switching Barriers, CR-Customer Retention

5. Conclusion

The study involved young subscribers of two giant mobile telecommunication providers in Indonesia. Four-hundred-ten respondents participated with majority of them were female (65%).

Two fitted constructs were developed. The first construct, retaining perceived tariff to have a direct link to customer satisfaction, and customer satisfaction had a direct link to customer retention. Another variable, perceived service quality had a direct link to customer retention. The second construct, switching barriers with

two dimensions – switching cost and attractiveness of alternative – had a direct link to customer satisfaction (excluded in the hypotheses), and customer satisfaction had a link to customer retention. In addition, perceived service quality had a direct link to customer retention.

Apparently, in this study, perceived tariff and switching barriers could not be installed in a full model a long together to predict customer retention. As perceived tariff was placed, switching barriers would be dropped and vice versa. The authors expect for future research to test these two models with different setting of brands, group of respondents, and place.

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