The Effect of Service Quality and Accessibility on Customer Trust Mediated by Customer Satisfaction of Tanah Abang Station Intermodals Integration Facilities

Yusrizalsyah¹, Djamal Subastian², Sandriana Marina³

- ¹ (Department of Transportation Management, Trisakti Institute of Transportation & Logistics, Indonesia)
- ² (Department of Transportation Management, Trisakti Institute of Transportation & Logistics, Indonesia
- ³ (Department of Transportation Management, Trisakti Institute of Transportation & Logistics, Indonesia)

Abstract:

Background: Jakarta as the capital city which is center of government, business and offices own very high mobility activity. Increase and spread residents of DKI Jakarta to the regions buffer push growth housing in suburban areas which has an impact on increasing the number of movements transportation mass passenger. Jakarta, which is flanked by the cities of Bogor, Depok, Tangerang and Bekasi, makes travel patterns become complicated and users has to move around to complete the journey of those need lot efforts such as walking, waiting, and other difficulties. Tanah Abang Station, the largest station with an area of 2.4 hectares, is a transit point for serving passengers. With its height This mobility is about quality and accessibility users already feel satisfied and confident to use the Tanah Abang Station Intermodal Integration Facility.

Materials and Methods: This research aims to test Service Quality, Accessibility to Customer Trust mediated by Customer Satisfaction of Tanah Abang Station intermodal integrated Facility. The approach in this research is descriptive quantitative, using statement closed questionnaires with a sample size of 363 respondents. The analysis statistics descriptives and modeling using SmartPLS 4.0 Software.

Results: The results of this study are Service Quality to Customer Trust and Accessibility to Customer Trust p-value 0.057 and 0.616 are above 0.05, whereas Service Quality towards satisfaction with a p-value of 0.022, p-value of accessibility towards customer satisfaction of 0.003 and customer satisfaction towards Customer Trust of 0.000

Conclusion The results of this study are Service Quality does not affect Customer Trust, Accessibility does not affect Customer Trust, Customer Satisfaction influence on Customer Trust, Service Quality influence on Customer Satisfaction, Accessibility influence on Customer satisfaction. Service Quality influent to Customer Trust mediated by Customer Satisfaction and Accessibility influential to Trust mediated by Customer Satisfaction.

Keyword: Service Quality, Accessibility, Customer Satisfaction, Trust Customers, Tanah Abang Station, Integration.

Date of Submission: 10-11-2025 Date of Acceptance: 20-11-2025

I. Introduction

Jakarta is the capital, business, economy city supported by the surrounding areas such as Bogor, Depok, Tangerang, Bekasi, Cikarang and others, which is makes Jakarta busy and high mobility city. Higher mobility in Jakarta can be seen by the increasing number of train passengers in Jabodetabek every year. Expansion city makes Travel patterns become more complicated and customers has move around to complete the journey and need lot of efforts such as walking, waiting, and other difficulties. There is a need to reduce traffic jams and pollution to greater comfort and a better environment that can be achieved by improving mass transportation system (Mandhani, Nayak, and Parida, 2020). The Passengers perception is very important to evaluate service quality of transportation intermodal integration facility because they are actual customers of public transportation (Liang et al., 2023). Tanah Abang Station is one of the areas that is never quiet from routine daily activity, starting from work activity, routine school / college and trade activity. People need mass integrated transport intermodal is one of the very important solutions for society to be able to switch to public mass transport, then how to do it? makes public interested in using public mass transportation? With point-to-point service with ease mobility for the public Transportation user that can be integrated is method reach good intermodal transit system. When mass transportation comprehensively integrated make passenger trips feel more efficient.

II. Materials And Methods

This research location was conducted at the facility integration intermodal in the Tanah Abang Station area, Jakarta as target research activities study starting with a proposal study, proposal revision, data collection and preparation The thesis was conducted during the period from November 2024 to July 2025. The sample in this study was 363 customers. In service facility integration intermodal Tanah Abang Station area, Jakarta.

Study Design: Structural Equation Modeling (SEM) Study Location: Tanah Abang Station, Jakarta. Study Duration: November 2024 to July 2025

Sample size: 363 respondents as many as 170,428 people used the commuter line to mobilize. Tanah Abang Station is close to the center trade becomes the busy district, as many as 43,413 people. With 3,027 people descending meanwhile users increased by 10,599 people. Thus, researchers make 3,027 as Population.

Sample size calculation: In determining the sample of passengers with a margin of error of 5% used the Slovin formula. The sample in this study was 363 customers. Facility integration intermodal in the Tanah Abang Station area, Jakarta.

Subjects & selection method carried out using the simple random sampling method, Survey face to face 363 customers service facility integration Intermodal transportation in the Tanah Abang Station area, Jakarta was carried out using the simple random sampling method. This is one of the simplest sampling method that has equal opportunities for everyone sample to be selected.

Procedure methodology

Research uses the method Quantitative, of which there are several stages in the preparations this methodology, such as:

- 1. The preparation Stage, begins compilation literature study, which is related to the title research and continued with problem identification, problems limitation, and problem formulation as well as determining objectives and benefits research. The next stage is to collect theory relevant studies and literature review of previous research as material for development issues this research. Based on the formulation of the problem, theories and literature review from previous research, the author will determine the variables and formulate hypotheses to try to answer (provide solutions) during research.
- 2. The implementation stage, namely the stages Collecting data using a questionnaire. This stage to obtain supporting data according to the variables and indicators.
- The questionnaire data processing stage, at this stage the researcher calculates and analyzes the data that
 has been collected. This data analysis uses a multiple linear regression model using the tool SmartPLS
 4
- 4. The explantion Stage, stage explain / discuss results of data analysis from research. in this period tested influence between variables that obtained from data analysis includes explanation of each variable compared with theory and research previously to sharpen research results.
- 5. The conclusion Stage, author make conclusions and suggestions and policy implications research results. Conclusion is summary of results from testing hypothesis whether the hypothesis is accepted or rejected. Useful suggestions as input to party related parties Based on the research results and research discussion results. Implications policy explaining consequences if the relevant parties do not implement the policy Implications Based on the Conclusions and Recommendations
 - Data were collected using a questionnaire. This research was conducted from November 2024 June 2025.

Statistical analysis

This research using the quantitative method to analyze the relationship or influence from several variables, or what is called analysis multivariate analysis. Multivariate is a technique of statistics used to analyze data that has more than two variables simultaneously. The goal is to identify patterns, relationships, and dependencies between variables to gain a more comprehensive understanding, as well as to differentiate influence one set of variables against another set of variables. The analysis data is divided into several parts or what is called analysis descriptive statistics, measuring model analysis (outer model) and structural analysis (structural model). Statistics descriptive analysis is aim for determining the characteristics of respondents by describing the data in variables. Structural Equation Modeling (SEM) is a technique statistics multivariate to explore relationships between constructs exogenous and endogenous. This study considers latent constructs that cannot be observed directly but can be measured through observed variables such as transit environment, comfort, convenience, safety, security, etc. These constructs can be perceived and evaluated by SEM. Errors measurements in the model can be identified using SEM which makes it different from other techniques. Other Ordinal Linear Regression (Tarka, 2018). Direct, indirect and multiple relationships Directional relationships between and within latent

variables can be found using SEM. In addition, SEM can also be used to test coefficients, overall model fit and testing the model with several variables dependent (Allen et al., 2019).

III. Result

Measurement model (Outer Model) in this study uses validity and reliability tests. The validity tests in this study consist of convergent validity and discriminant validity. Reliability test is used as tool to prove the accuracy, consistency and precision instruments in measuring variable.

a. Validity Test Analysis

This validity test in this study used the Smart-PLS 4.0 application which consists of convergent validity and discriminant validity. Convergent Validity can be seen in the Loading Factor values. In this study, all the indicators stated above 0.5 that meets the minimum requirements (Hair et al, 2018).

Dimensions Loading Results Variables Statement Items Factor 0.762 Valid Facilities and services Reliability Fast, precise, and careful service. 0.778 Valid 3. 0.830 Valid Responsiveness All customer complaints are responded to well. Guarantee 4. Provide timely assurance in customer service 0.825 Valid Service Quality The staff served politely and friendly. 0.809 Valid Empathy 6. Officers provide convenience in service 0.864 Valid 0.856 Valid Officers serve without discrimination Physical Evidence 8. Facilities and services feel comfortable 0.815 Valid 0.780 Valid 1. The area is well connected. 2. Constraints influenced by natural conditions that 0.865 Valid Station Condition have different regional characteristics. Accessibility 0.843 Friendly for people with luggage Valid 4. Disability friendly 0.785 Valid Has a strategic location 0.627 Valid Access to the Station Easy to reach by other modes of transportation. 6. 0.608 Valid Satisfied with the quality of the facilities 0.670 Valid Conformity to Satisfied with the specified rate. 0.788 Valid Expectations 3. 0.850 Better quality and service Valid 4. Meet transportation needs 0.775 Valid Customer Make ends meet 5. The many types of modes available 0.712 Valid satisfaction Passenger Rating 6. Building layout 0.668Valid 0.753 Valid Happiness Services provided Satisfaction with the 8. Decision to use 0.837 Valid 1. The officers provide good service 0.601 Valid Provide necessary travel information Ability 2. 0.774 Valid 3. 0.837 Valid As per my expectation Sincerity / Sincerity Providing comfort and security 0.790 Valid Customer Trust Confidence in using Facilities as my means of 0.596 Valid Willingness to depend transportation 0.770 Feel the benefits of the facilities Valid 6. Officers fulfill their responsibilities at work. 0.858Valid Integrity Officers work by following SOPs 0.799 Valid

Table 1. Convergent Validity Test Results

Outer Loading Test is useful to test correlation between the item or indicator score and the variable score. An indicator can be considered reliable if the value correlation above or greater than 0.7, but at the stage development correlation with a value of 0.50 is still acceptable (Ghozali, 2006).

Apart from using Loading Factor, Validity can also be seen from Average Variance Extracted (AVE) value. According to (Hair et al. (2018) an acceptable AVE value is 0.5 or higher.

Tabel 2. Average Variance Extracted (AVE) value

	Average variance extracted (AVE)
X1. Quality Service	0.669
X2. Accessibility	0.574
Z. Customer Satisfaction	0.577
Y. Customer Trust	0.576

In this study, the AVE value of each variable worth above 0.5 then the validity convergence in this study has been fulfilled.

One of the methods to see validity discriminant is through *cross loading*, namely with the value *cross loading* indicator something construct is greater than mark *Cross Loading* the construct against other constructs.

Table 3. Cross Loading Discriminant Validity

	X1. Quality Service	X2. Accessibility	Z. Customer Satisfaction	Y. Customer Trust	
X1.1	0.762	0.237	0.167	0.187	
X1.2	0.778	0.267	0.149	0.158	
X1.3	0.830	0.205	0.196	0.181	
X1.4	0.825	0.216	0.129	0.133	
X1.5	0.809	0.433	0.146	0.186	
X1.6	0.864	0.418	0.204	0.239	
X1.7	0.856	0.403	0.141	0.174	
X1.8	0.815	0.338	0.107	0.136	
X2.1	0.381	0.780	0.222	0.240	
X2.2	0.371	0.865	0.210	0.184	
X2.3	0.420	0.843	0.161	0.146	
X2.4	0.240	0.785	0.170	0.109	
X2.5	0.092	0.627	0.107	0.101	
X2.6	0.115	0.608	0.105	0.125	
Y.1	0.154	0.184	0.670	0.476	
Y.2	0.187	0.226	0.788	0.569	
Y.3	0.160	0.160	0.850	0.632	
Y.4	0.115 0.161		0.775	0.617	
Y.5	0.097	0.142	0.712	0.525	
Y.6	0.167	0.183	0.668	0.478	
Y.7	0.136	0.168	0.753	0.513	
Y.8	0.170	0.159	0.837	0.606	
Z.1	0.183	0.182	0.448	0.601	
Z.2	0.209	0.202	0.551	0.774	
Z.3	0.130	0.148	0.613	0.837	
Z.4	0.105	0.135	0.541	0.790	
Z.5	0.174	0.138	0.429	0.596	
Z.6	0.185	0.132	0.560	0.770	
Z.7	0.212	0.198	0.640	0.858	
Z.8	0.144	0.160	0.617	0.799	

In the table can be seen that the value of *cross loading* from each indicator in the variable construct has a greater value than the loading value on the variable other constructs, so it can be said that the indicator has fulfil condition validity discriminant.

b. Analysis Calculation Reliability

Analysis calculation reliability is one of the purposeful outer model analyze proved that the indicator accurately proven, consistent and precise in measuring variables. The most commonly used measurement reliability is internal reliability consistency. Validity can be seen from Cronbach's Alpha and Composite Reliability values. If the value exceed 0.7 then it can be said that the data is reliable.

	Cronbach's alpha	Composite reliability (rho a)	Composite reliability (rho c)	Average variance extracted (AVE)
X1. Quality Service	0.930	0.941	0.942	0.669
X2. Accessibility	0.852	0.893	0.888	0.574
Z. Customer Satisfaction	0.894	0.899	0.915	0.577
Y. Customer Trust	0.892	0.902	0.915	0.576

Table 4. Reliability Construct

In this study, Cronbach's Alpha and Composite Reliability (rho_c) values were more than 0.7 and the Composite Reliability (rho_c) value was greater than Cronbach's Alpha so that the criteria of reliability is fulfilled.

c. Structural Model Analysis (Inner Model)

Inner model analysis is a model that connects between constructs (latent variables) that are built. The Inner Model consists of Collinearity Statistics, R-Square, Effect Size (F2), Q-Square (Q2) and significance coefficient path (Path Co efficient).

The first stage to carry out a structural model assessment is to look at construct predictor for Collinearity statistics using the Variance Inflation Factor (VIF) value. The VIF value must be less than 5, as a value greater than 5 indicates collinearity between constructs (Sarstedt et al., 2017).

	VIF
X1. Quality Service -> Z. Customer Satisfaction	1,178
X1. Quality Service -> Y. Customer Trust	1,195
X2. Accessibility -> Z. Customer Satisfaction	1,178
X2. Accessibility -> Y. Customer Trust	1,212
Z. Customer Satisfaction -> Y. Customer Trust	1,070

Table 5. Collinearity Statistics - Inner Model

In the table above the VIF value is less than 5, so there is no problem multicollinearity. next stage is to test the coefficients. determination or Coefficient of Determination (R2) which aims measure how much variation variables dependent is capable explained by all the variables independence. According to Hair et al (2018), R2 is a measure of proportion variance in the endogenous construct explained by the construct predictor. The R2 value is in the range of 0 to 1, with a value of 0 indicating no relationship and 1 indicating perfect relationship. R2 values of 0.75, 0.50 and 0.25 indicate a strong, moderate and weak model.

 R-square
 R-square adjusted

 Z. Customer Satisfaction
 0.065
 0.060

 Y. Customer Trust
 0.541
 0.537

Table 6. R-Square Value (R²)

Furthermore, the R2 value is the influence together or simultaneously. variables independent influences the dependent variable. In this study, the Adjusted R2 value is 0.060, so that all exogenous latent variables (X1, X2, X3, X4, X5, X6) simultaneously affect Z by 0.060 or 6%. Because this value is below 0.255, it can be stated that X's influence on Z is weak. Meanwhile, Adjusted R2 Y is 0.537 so that all exogenous latent variables (X1, X2, X3, X4, X5, X6) simultaneously affects Y by 0.537 or 53.7%. Because this value is in the range of 0.5 meals can be stated the influence of X on Y is moderate.

Assessment is carried out by assessing Effect Size (f2) or f-Square size influence between variables. According to Sarstedt et.al 2017, the f- square value of 0.02 is the influence small, 0.15 medium influence and 0.35 large influence. Values less than .02 can be ignored or considered non-existent effect.

	X1. Quality Service	X2. Accessibility	Y. Customer Trust	Z. Customer Satisfaction
X1. Quality Service			0.009	0.014
X2. Accessibility			0.001	0.029
Y. Customer Trust				
Z. Customer Satisfaction			1,033	

Table 7. F – Square Value (F^2)

In this study, the f- square value below 0.02 is Service Quality towards Customer Satisfaction, Quality Service to Customer Trust and Accessibility to Customer Trust so it can be said the effect is very small or has no effect. For Accessibility to Customer Satisfaction above 0.02 so it can be considered small influence. While Customer Satisfaction towards Customers Trust with a value of 1.033 or greater than 0.35, so it is indicated that there is an influence between the variables categorized have a big influence.

Assessment is cross-validated redundancy or Q-Square (Q2), which is useful to measure strength model prediction or known as relevance predictive. According to Hair et al. (2018), the Q2 value is greater than 0 for a particular endogenous construct. indicates that the prediction (Path) or path model accurate and acceptable as the construct and vice versa if the value is less than 0 then it can be indicated relevance is less predictive.

	Q²predict
Z. Customer Satisfaction	0.049
Y. Customer Trust	0.052

Table 8. Q-Square Values (Q2)

Stage in involving assessment of size and significance coefficient path coefficient. This assessment is base Greetings for conducting hypothesis testing. This test assesses coefficient path or size relationship / influence latent variables. Assessment This analysis uses the procedure booth strapping to gain significance. In addition, boothstrapping is also used to look at t-statistics and p-value as part from hypothesis testing.

According to Hair et al. (2018), the bootstrapping process uses errors standards in calculating the t and p values of the path coefficients. Coefficient track significant is at the 0.05 level and if 0 is not included in the 95% confidence interval (bias-corrected and accelerated). According to Sarstedt et al. (2017), the relevance coefficient the path is usually between -1 to +1, a coefficient closer to +1 means a positive relationship. strong positive, and closer to -1 depicts connection strong negative (note that values below -1 and above +1 can technically occur, for example, when collinearity is at a critical level).

By using bootstrapping, the overall coefficient results were obtained path coefficient value positive. This proves that the path coefficient value is greater for one independent variable compared to the dependent variable dependent, the greater the variable independent influence variables the dependent.

Original Sample mean 2.5% 97.5% sample (O) (M)X1. Quality Service -> Z. Customer Satisfaction 0.130 0.022 0.239 0.126 X1. Quality Service -> Y. Customer Trust 0.062 0.161 0.1650.266 X2. Accessibility -> Z. Customer Satisfaction 0.178 0.186 0.067 0.303 X2. Accessibility -> Y. Customer Trust 0.150 0.158 0.045 0.272 0.712 0.607 Z. Customer Satisfaction -> Y. Customer Trust 0.716 0.801

Table 9. Path Coefficients, Bias Corrected Confidence Interval

Almost all coefficients track being in relationship / influence positive significant because the path coefficient > 0.05 and 0 is not included in the 95% confidence interval.

4. Hypothesis Test Analysis

Hypothesis testing is carried out to find out whether the hypothesis is accepted or rejected, so that it can be known whether there is an influence or relationship between the variables analyzed. Hypothesis testing uses the method boothstrapping by looking t-statistic value and p-value. Terms mark probability, the p-value with alpha 5% is less than 0.05. If the P-Value is smaller than 0.05 then the hypothesis is accepted. If the P-Value is greater than 0.05 then the hypothesis is rejected, and the t- table value for 5% alpha it is 1.97. so that's the criteria reception the hypothesis is when the t- statistic > t- table.

	Original sample (O)	Sample mean (M)	Standard deviation (STDEV)	T statistics (O/STDEV)	P values	Hypothesis
X1> Z	0.126	0.130	0.055	2,294	0.022	Accepted
X1> Y	0.071	0.071	0.037	1,903	0.057	Rejected
X2> Z.	0.178	0.186	0.060	2,951	0.003	Accepted
X2> Y	0.023	0.025	0.047	0.501	0.616	Rejected
Z. > Y.	0.712	0.716	0.050	14,134	0.000	Accepted

Table 10. Path Coefficients, t-statistics and p- values

This research consists of of 5 hypotheses. All hypothesis tested by looking mark coefficient path coefficient, t- statistics and p-value to see how strong the influence of variables independent to variables dependent.

a. Testing Direct Influence

Direct influence can be seen from mark influence variable X against Y, without any variable mediation or intervening. Direct influence between variables consists of the 5 hypotheses, the t- statistic value can be seen. The explanation can be seen in the following table:

	Original sample (O)	T statistics (O/STDEV)	P values
X1> Z.	0.126	2,294	0.022
X1> Y.	0.071	1,903	0.057
X2> Z.	0.178	2,951	0.003
X2> Y.	0.023	0.501	0.616
Z> Y.	0.712	14,134	0.000

Table 11. Test Results Direct Effect of Path Coefficient

Based on the table, it can be seen that the biggest influence is the influence of Customer Satisfaction on Customer Trust of 14.134, the influence of Accessibility on Customer Satisfaction of 2.951 is the second biggest influence, while the third influence is on Service Quality on Customer Satisfaction of 2.294, and the fourth influence is the influence of Service Quality on Customer Trust, and the smallest influence is the influence of Accessibility on Customer Trust.

The following is a description of the hypothesis testing of each variable:

1) The Influence of Service Quality on Customer Trust

Hypothesis (H1) tests the Influence of Service Quality on Customer Trust with a p-value of 0.057 which means it is greater than 0.05 so the hypothesis is rejected, so there is no influence between Service Quality on Customer Trust. According to Mowen and Minor, consumers who have all their knowledge and all conclusions about objects, attributes, and benefits made by consumers are called trust.

2) The Influence of Accessibility on Customer Trust in Intermodal Integration Facilities at Tanah Abang Station.

Hypothesis (H2) tests the influence of Accessibility on Customer Trust in intermodal integration facilities at Tanah Abang Station, with a p-value of 0.616 which means it is greater than 0.05, so it can be said that the

hypothesis is rejected, there is no influence of Accessibility on Customer Trust in intermodal integration facilities at Tanah Abang Station.

3) The Influence of Customer Satisfaction on Customer Trust in Intermodal Integration Facilities at Tanah Abang Station.

Hypothesis (H3) tests the Influence of Customer Satisfaction on Customer Trust in Intermodal Integration Facilities at Tanah Abang Station. A p-value of 0.000 indicates that the hypothesis is accepted, thus there is a positive influence between Customer Satisfaction and Customer Trust. Customer trust is formed because the company has been able to meet customer expectations. This is in line with a high level of satisfaction which will increase customer trust in the company.

4) The Influence of Service Quality on Customer Satisfaction.

Hypothesis (H4) tests the Influence of Service Quality on Customer Satisfaction, there is a positive influence. This can be seen from the p-value of 0.022 <0.05, it can be concluded that the hypothesis is accepted. Research on service quality on customer satisfaction conducted by Markus (2020); and Wibisono and Achsa (2020), Subakti (2017), Ika Yuniasti (2025), Prihartanti (2023) which proves that Service Quality has a positive and significant influence on Customer Satisfaction. Consumers are satisfied with the services available at the Tanah Abang Station Intermodal Integration Facility starting from the modern physical building and the friendly, polite and courteous service of the officers.

5) The Influence of Accessibility on Customer Satisfaction of Tanah Abang Station Intermodal Integration Facilities

Hypothesis (H5) tests the Effect of Accessibility on Customer Satisfaction of Tanah Abang Station Intermodal Integration Facilities with a p-value of 0.012, which means this p-value is smaller than 0.03, so this hypothesis is accepted. This is in line with research conducted by Nahda (2022), Sulistyadi (2016), Fadilah (2024), Nurina (2024), Nasrullah (2024).

	Original sample (O)	Sample mean (M)	Standard deviation (STDEV)	T statistics (O/STDEV)	P values	Hypothesis
X1> Z> Y.	0.090	0.093	0.041	2,218	0.027	Accepted
X2> Z -> Y.	0.127	0.133	0.044	2,881	0.004	Accepted

Table 1. Indirect Effect Test Results

H6) Hypothesis 6 tests about Travel Quality on Customer Trust mediated by Customer Satisfaction produces a p-value of 0.027 which means it is smaller from 0.05 so that the hypothesis is accepted which means there is an influence about Travel Quality on Customer Trust Mediated by Customer Satisfaction.

H7) Hypothesis 7 tests about Accessibility to Customer Trust mediated by Customer Satisfaction produces a p-value of 0.004 or less. of 0.05 so that the hypothesis is accepted and indicates that there is an influence Accessibility to Trust Users mediated by Customer Satisfaction.

IV. Discussion

This research results, it can be seen that the biggest influence is Customer Satisfaction towards Customer Trust of 14.134 sig < 0.000 proves that Customer Satisfaction influence positive and significant Customers Trust. This indicates that Customer Satisfaction is an important factor in Customer Trust. Customer Trust is a picture of how Customers expectation can be satisfied. High level of satisfaction will be able to improve Customers Trust towards the company (Soegoto, 2013).

Customer Satisfaction is often the result of experience positive with the product or service. When customers feel satisfied, they are more likely to believe that the company can meet or even beyond their expectations for the future.

In this study, Service Quality has positive impact on Customer Satisfaction. In addition, the more progress or society urban need Service Quality is one of the things that must be fulfilled. Society or customers who use the transportation feel that the Service Quality has a role that is as important as the usage of transportation itself. Not infrequently public customers prefer private transportation compared to public transportation because public transportation Service Quality unable fulfil desires or customer needs.

If Service Quality is good, this does not necessarily mean it will attract attention of Customers Trust, but if the quality the service provided is good and customers feel satisfied, the services provided will result in customers feeling trust to use the This intermodal integration facilities. This is similar with accessibility, if accessibility is good without being supported by customer satisfaction, of course hard to interest Customer trust.

In this study, Customer satisfaction is important in influencing Customer trust. Satisfaction is key major in trust. If Customers feel satisfied with the given services and accessibility This allows customers to rely on or trust in using the integration intermodal facilities as main transportation.

V. Conclusion

Based on the data analysis and results of this study, it can be concluded that:

- 1. Influence Service Quality to Customer Trust
 Influence of Service Quality on Customer Trust in this study had no significant effect. Although customers
 already feel satisfied will services provided by officers Tanah Abang Station, the customers do not trust yet
 to use the facilities Station Integrated Tanah Abang intermodal as main transportation.
- 2. Influence Accessibility to Customer Trust In this test, the results obtained were not influential, because Tanah Abang Station was located in the center of trade and offices, so that the traffic is high. With the mobility this height is inevitable occurrence traffic jam. This is what makes the customer feel disbelief to use the intermodal integration Tanah Abang facilities. There are some customers prefer alternative other transportation or even using another station to avoid transit.
- 3. Influence of Customer Satisfaction on Customer Trust
 In this test Customer Satisfaction influence Customer Trust. Customers feel his expectation succeed fulfilled, thus giving rise to Customer Trust. The Integration intermodal facilities is the important element in transportation sustainable urban development policy (Rześny-Cieplińska, 2023). This facility more complex as a modern transportation than conventional station, and it allows travelers to move from One mode to another (Hernandez and Monzon, 2016). By fulfilling all expectations and Customer Satisfaction, customers feel believe to use the facilities intermodal integration Tanah Abang Station.
- 4. Quality Service to Customer Satisfaction.

 There is a direct influence on Service Quality to Customer Satisfaction. The public feels Service Quality is important factor. Currently Tanah Abang Station has been revitalized to become New Tanah Abang Station, which is the largest train station in Jakarta which serves the Commuter Line. This station has Revitalized with a new, more modern look and larger capacity. Featuring a more modern design and supported by friendly and helpful staff. make customers feel satisfied with the service provided.
- 5. Influence Accessibility to Customer Satisfaction.

 There is a direct influence of accessibility and pointers direction towards Service Quality on facility integration intermodal Tanah Abang Station. With an area of approximately 2.4 hectares, Tanah Abang Station is ease accessible by other modes. And ease accessible to its customers, both normal and new customers, special needs, elderly, women pregnant and so on. As well as the role important pointer directions so that customers do not get lost and use the wrong mode transportation. With all these various factors, the customer feels satisfied with the accessibility at Tanah Abang Station.
- 6. Influence Service Quality to Customer Trust mediated by Customer Satisfaction.

 There is an Influence Service Quality to Customer Trust mediated by Customer Satisfaction. In addition, the more develop society urban feel Service Quality is one of the things that must be fulfilled. Society or customers think that transportation with good Service Quality has own a role that is as important as the use of transportation. With expectation fulfilled, Customer Trust to us the Facilities integrated Tanah Abang Intermodal.
- 7. Influence Accessibility to Customer Trust mediated by satisfaction customer
 Based on the results of observations in the field, things that influence Customer Trust of public transport
 especially on trains at Tanah Abang Station because accessibility to movement and quality adequate service,
 this is shown by the integration Current modes of transportation include trains with Bus Rapid Transit/
 Transjakarta (such as Metrotrans and JakLingko), online motorcycle taxis (such as Gojek and Grab), public
 transportation non- Jaklingko environment, and facilities infrastructure for pedestrians.

Success rate public transport as main transportation urban areas is with increasing intermodal accessibility and quality service through regional integration by fulfilling standard maximum service and operations to provide a large and comprehensive impact. This includes access for person with disabilities, access to station, parking adequate, and system information effective (Kuo et al., 2023). The value accessibility is one of important aspect that influent service level public transport in some area (Setyamika, 2024).

References

- [1]. Adamos, G., & Nathanail, E. (2021). How attractive are public transport interchanges? A cross comparison of two European terminals. Transactions on Transport Sciences, 13(1), 74-83.
- [2]. Alexander, M., & Hamilton, K. (2015). A 'placeful'station? The community role in place making and improving hedonic value at local railway stations. Transportation Research Part A: Policy and Practice, 82, 65-77.
- [3]. Allen, J., Eboli, L., Mazzulla, G., & Ortúzar, J. D. D. (2020). Effect of critical incidents on public transport satisfaction and loyalty: an Ordinal Probit SEM-MIMIC approach. Transportation, 47(2), 827-863.
- [4]. Allen, J., Eboli, L., Forciniti, C., Mazzulla, G., & de Dios Ortúzar, J. (2019). The role of critical incidents and involvement in transit satisfaction and loyalty. Transport Policy, 75, 57-69.
- [5]. Allen, J., Muñoz, J.C., & de Dios Ortúzar, J. (2019). Understanding public transport satisfaction: Using Maslow's hierarchy of (transit) needs. Transport Policy, 81, 75-94.
- [6]. Araghi, Y., van Oort, N., & Hoogendoorn, S. (2022). Passengers preferences for using emerging modes as first/last mile transport to and from a multimodal hub case study Delft Campus railway station. Case Studies on Transport Policy, 10(1), 300-314.
- [7]. Arnold, T., Frost, M., Timmis, A., Dale, S., & Ison, S. (2023). Mobility hubs: Review and future research directions. Transportation Research Record, 2677(2), 858-868.
- [8]. Aulia, Nahda. 2022. Influence Accessibility To Users Commuter Line Train Transportation, Station Sudimara. Jakarta: Jurnal Artesian. Vol. 2 (1):13-18
- [9]. Azzouz, L., & Jack, A. (2021). Social exclusion and high-speed railways: Evidence from China. The Open Transportation Journal, 15(1), 133-146.
- [10]. Central Statistics Agency . (2024). Total Train Passengers (Thousand People). https://www.bps.go.id/id/statistics-table/2/NzIjMg=/nomor-penumpang-kereta-api.html
- [11]. Central Statistics Agency . (2025). https://jakarta.bps.go.id/id/statistics-table/2/MTI0IzI=/penduduk--laju-pertumbuhan-penduduk--khusustasi-penduduk--rasio-jenis-kelamin-penduduk-menurut-provinsi-kabupaten-kota.html
- [12]. Batty, P., Palacin, R., & González-Gil, A. (2015). Challenges and opportunities in developing urban capital shift. Travel Behavior and Society, 2(2), 109-123.
- [13]. Berry, L.L., Shostack, L., & Wage, G.D. (1983). Emerging Perspectives On Services
- [14]. Marketing: Proceedings. 146. 2020, Printed in the Indonesia.
- [15]. Bivina, G.R., Gupta, A., & Parida, M. (2019). Influence of microscale environmental factors on perceived walk accessibility to metro stations. Transportation Research Part D: Transport and Environment, 67, 142-155.
- [16]. Cabooter, E., Weijters, B., Geuens, M., & Vermeir, I. (2016). Scale format effects on response option interpretation and use. Journal of Business Research, 69(7), 2574-2584.
- [17]. Chatziioannou, I., Nikitas, A., Tzouras, P.G., Bakogiannis, E., Alvarez-Icaza, L., Chias-Becerril, L., ... & Rexfelt, O. (2023). Ranking sustainable urban mobility indicators and their matching transport policies to support liveable cities Futures: A MICMAC approach. Transportation Research Interdisciplinary Perspectives, 18, 100788.
- [18]. Ceccato, V., & Newton, A. (2015). Aim, Scope, Conceptual Framework and Definitions (In Safety and Security in Transit Environments). Macmillan, UK: Palgrave.
- [19]. Ceccato, V., Gaudelet, N., & Graf, G. (2022). Crime and safety in transit environments: a systematic review of the English and French literature, 1970–2020. Public Transport, 14(1), 105-153.
- [20]. Chen, C. L., Hickman, R., & Saxena, S. (2015). Improving Interchanges. Towards Better Multimodal Hubs in the PRC. Manila: Asian Development Bank.
- [21]. Commuter Line. (2025). https://www.commuterline.id/information-publik/berita/penumpang-krl-mulai-memadati-senomor-stasiun-krl-di-jakarta
- [22]. Das, S., & Pandit, D. (2016). Qualitative assessment of public facilities: the "public bus." The TQM Journal, 28(2), 275-294.
- [23]. De Oña, J., & De Oña, R. (2015). Quality of service in public transport based on customer satisfaction surveys: A review and assessment of methodological approaches. Transportation Science, 49(3), 605-622.
- [24]. De Oña, J., De Oña, R., Eboli, L., & Mazzulla, G. (2016). Index numbers for monitoring transit service quality. Transportation Research Part A: Policy and Practice, 84, 18-30.
- [25]. Deb, S., & Ahmed, M. A. (2018). Determining the service quality of the city bus service based on users' perceptions and expectations. Travel Behavior and Society, 12, 1-10.
- [26]. Dell'Asin , G., Monzón, A., & Lopez- Lambas , M.E. (2015, August). Key quality factors at urban interchanges. In Proceedings of the Institution of Civil Engineers-Transport (Vol. 168, No. 4, pp. 326-335). Thomas Telford Ltd.
- [27]. VILLAGE, U. (2018). 68% of the World Population Projected to Live in Urban Areas by 2050, Says UN. United Nations Department of Economic and Social Affairs.
- [28]. Diab, El, Badami, MG, & El- Geneidy, AM (2015). Bus transit service reliability and improvement strategies: Integrating the perspectives of passengers and transit agencies in North America. Transport Reviews, 35(3), 292-328.
- [29]. Diez-Mesa, F., de Oña, R., & de Oña, J. (2018). Bayesian networks and structural equation modeling to develop service quality models: Metro of Seville case study. Transportation Research Part A: Policy and Practice, 118, 1-13.
- [30]. De Vos, J., Singleton, P. A., & Gärling, T. (2022). From attitude to satisfaction: introducing the travel mode choice cycle. Transport Reviews, 42(2), 204-221.
- [31]. Donni Juni Priansa, Behavior Consumer in Competition Contemporary Business (Bandung: Alfabeta , 2017), 115-116.
- [32]. Eboli, L., & Mazzulla, G. (2015). Relationships between rail passengers' satisfaction and service quality: a framework for identifying key service factors. Public Transport, 7, 185-201.
- [33]. Fan, Y., Guthrie, A., & Levinson, D. (2016). Waiting time perceptions at transit stops and stations: Effects of basic amenities, gender, and security. Transportation Research Part A: Policy and Practice, 88, 251-264.
- [34]. Fadilah, Rayhan.2024. Analysis Accessibility and User Satisfaction of Rail Transportation at Medan Station. Journal Transportation Vol. 24 No. 1 Year 2024: p.74-85
- [35]. Gong, M., Hu, Y., Chen, Z., & Li, X. (2021). Transfer-based customized modular bus system design with passenger-route assignment optimization. Transportation Research Part E: Logistics and Transportation Review, 153, 102422.
- [36]. Ha, J., Lee, S., & Ko, J. (2020). Unraveling the impact of travel time, cost, and transit burdens on commute mode choice for different income and age groups. Transportation Research Part A: Policy and Practice, 141, 147-166.
- [37]. Hair, Jr., JF, Black, WC, Babin, BJ, & Anderson. RE (2019). Multivariate Data Analysis. United Kingdom: Cengage Learning, EMEA.
- [38]. Hair Jr, J., Page, M., & Brunsveld, N. (2020). Essentials of Business Research Methods. Routledge. New York: Routledge.

- [39]. Hernandez, S., & Monzon, A. (2016). Key factors for defining an efficient urban transport interchange: Users' perceptions. Cities, 50, 158-167.
- [40]. Hernandez, S., Monzon, A., & De Oña, R. (2016). Urban transport interchanges: A methodology for evaluating perceived quality. Transportation Research Part A: Policy and Practice, 84, 31-43.
- [41]. Hickman, R., Chen, C.L., Chow, A., & Saxena, S. (2015). Improving interchanges in China: the experiential phenomenon. Journal of Transport Geography, 42, 175-186.
- [42]. Hörcher, D., & Tirachini, A. (2021). A review of public transport economics. Economics of Transportation, 25, 100196.
- [43]. Kang, D., Park, S., Lee, J., Kang, H., & Yu, J. W. (2015). An Integrated Model to Evaluate the Level-of-Service of Urban Rail Transfer Facilities in Consistent with User Perception. Journal of the Eastern Asia Society for Transportation Studies, 11, 1201-1220.
- [44]. Kasinem K. Influence Trust and Quality Service To Satisfaction Consumers at the Bukit Serelo Hotel in Lahat. J Media Wahana Ekon. 2020;17(4):329.
- [45]. Kim, J., Schmöcker, J.D., Yu, J.W., & Choi, J.Y. (2018). Service quality evaluation for urban rail transfer facilities with Rasch analysis. Travel Behavior and Society, 13, 26-35.
- [46]. Kuo, Y.-H., Leung, J. MY, and Yan, Y. 2023. Public transport for smart cities: Recent innovations and future challenges. European Journal of Operational Research, 306(3):1001–1026.
- [47]. Leninkumar, V. (2017). The Relationship between Customer Satisfaction and Customer Trust on Customer Loyalty. International Journal of Academic Research in Business and Social Sciences, 7(4). https://doi.org/10.6007/ijarbss/v7-i4/2821
- [48]. Li, L., Bai, Y., Song, Z., Chen, A., & Wu, B. (2018). Public transportation competitiveness analysis based on current passenger loyalty. Transportation Research Part A: Policy and Practice, 113, 213-226.
- [49]. Liang, Y., Lan, C., Dan, T., Qiaoqiong, Z., Yue, Y., & Lin, C. (2023). Research on supply and demand matching model of transportation modes in MaaS system of integrated passenger transport hub based on deep learning. Soft Computing, 27(9), 5973-5983.
- [50]. Liou, J.J., Hsu, C.C., & Chen, Y.S. (2014). Improving transportation service quality based on information fusion. Transportation Research Part A: Policy and Practice, 67, 225-239.
- [51]. Lois, D., Monzón, A., & Hernández, S. (2018). Analysis of satisfaction factors at urban transport interchanges: Measuring travelers' attitudes to information, security and waiting. Transport Policy, 67, 49-56.
- [52]. Low, S. (2017). Spatializing culture: the ethnography of space and place. New York, NY: Routledge.
- [53]. Lu, W., Wu, Y., Choguill, C.L., Lai, S.K., & Luo, J. (2021). Underground Hangzhou: The challenge of safety vs. commerciality in a major Chinese city. Cities, 119, 103414.
- [54]. Machado-León, J. L., de Oña, R., Baouni, T., & de Oña, J. (2017). Railway transit services in Algiers: priority improvement actions based on users' perceptions. Transport Policy, 53, 175-185.
- [55]. Mandhani, J., Nayak, J. K., & Parida, M. (2020). Interrelationships among service quality factors of Metro Rail Transit System: An integrated Bayesian networks and PLS-SEM approach. Transportation Research Part A: Policy and Practice, 140, 320-336.
- [56]. McIlroy, R.C. (2023). "This is where public transport falls down": Place based perspectives of multimodal travel. Transportation Research part F: Traffic Psychology and Behavior, 98, 29-46.
- [57]. Monzon-de-Caceres, A., & Di Ciommo, F. (Eds.). (2016). City-HUBs: Sustainable and efficient urban transport interchanges. CRC Press.
- [58]. Morton, C., Caulfield, B., & Anable, J. (2016). Customer perceptions of quality of service in public transport: Evidence for bus transit in Scotland. Case Studies on Transport Policy, 4(3), 199-207.
- [59]. Muzammil VK, Muzammil M, Alfitri N, Vicky F. Sanjaya. The Influence of Quality Service To Satisfaction Consumers . Revenue Lantern Business Manaj. 2024;2(01):21–5.
- [60]. Nasrullah, Ahmad. 2024. The Importance of Accessibility of Transportation Modes, Airport Facilities, and Service Quality at Silampari Airport pool Linggau, South Sumatra. Journal Binapatria. Open Journal Systems. Vol.19 No.04November2024
- [61]. Nathanail, E. (2008). Measuring the quality of service for passengers on the Hellenic railways. Transportation Research Part A: Policy and Practice. 42(1), 48-66.
- [62]. Nengsi, Helvina Dia, 2025. The Influence of Accessibility, Social Factors on Public Trust in Islamic Banks. (A Study of the Pagar Dewa Community in Bengkulu City). Malang: An -Nisbah Journal Islamic Banking. P-ISSN 2721-9615 / E-ISSN 2721-9623 Volume 6 Number 1 / January 2025
- [63]. Nurina, 2024. The Influence of Accessibility, Facilities, and Attractiveness on Satisfaction Tourists at the Object Tour Charm Kumejing. Jamasy: Journal Accounting, Management & Islamic Banking Volume 4 Number 3, June 2024 ISSN: 2809-7580
- [64]. Nursani., Rizqon, MD A., Faiza, N., & Akbar, M F. (2023). Determinants of Purchase Decisions among E-commerce Users: The Significance of Trust, Security, Price, Service Quality, and Risk Perception. Journal Dynamics Management and Business, 6(1), 97-116. https://doi.org/10.21009/jdmb.06.1.7
- [65]. Oostendorp, R., & Gebhardt, L. (2018). Combining means of transport as a users' strategy to optimize traveling in an urban context: empirical results on intermodal travel behavior from a survey in Berlin. Journal of Transport Geography, 71, 72-83.
- [66]. Peek, G. J., & van Hagen, M. (2002). Creating synergy in and around stations: Three strategies for adding value. Transportation Research Record, 1793(1), 1-6.
- [67]. Prihartanti , Wiwik.2023. Influence Quality Service To Satisfaction Probowangi Train Passengers at the Station Wonokromo Surabaya. Madani: Journal Multidisciplinary Science . Volume 1, Number 7, August 2023 E-ISSN: 2986-6340 DOI: https://doi.org/10.5281/zenodo.8255891
- [68]. Rześny-Cieplińska, J. (2023). Overview of the practices in the integration of passenger mobility and freight deliveries in urban areas. Case Studies on Transport Policy, 14, 101106.
- [69] Sadhukhan, S., Banerjee, U.K., & Maitra, B. (2015). Commuters' perception towards transfer facility attributes in and around metro stations: experience in Kolkata. Journal of Urban Planning and Development, 141(4), 04014038.
- [70]. Sasti, R. K. 2022. Accessibility Service Rail Transportation Solo-Jogja Electric Train (KRL) for People with Disabilities.
- [71]. Setyamika, B. 2024. Legal Protection To Passenger with Tickets No Chair on the train Local Fire Upper Dhoho Deeds Unlawful PT. Kereta CommuterIndonesia. National Development University "Veteran" East Java.
- [72]. Suandi, R. M. 2024. The Influence of E Service Quality and Price To Satisfaction Customer Online Transportation Maxim in Bandung City. Program Bachelor of Management Studies Faculty of Economics and Business, Widyatama University.
- [73]. Subakti, Peris Sepaka. The Influence of Price and Service Quality on Satisfaction Customers at PT Kereta Api Indonesia (Persero) Stations Pematangsiantar (Survey Towards the Community in Bantan Village RT 002/RW 007 Pematangsiantar. 2017. Maker Journal Issn: 2502-4434 Vol. 3, No. 1, June 2017
- [74]. Sudaryana Y. Influence Quality of Service, Trust and Price Satisfaction Consumers at the Indonesian Post Office (Persero) Tangerang City. J Manag Rev. 2020;4(1):447–55.

The Effect of Service Quality and Accessibility on Customer Trust Mediated by ..

- [75]. Sumarwan, Ujang. (2011). Behavior Consumer "Theory and Its Application in Marketing". Second Edition. Bogor. Ghalia Indonesia
- [76]. Sumarwan, et al. (2011). Marketing and Consumer Research. Bogor. IPB Press.
- [77]. Syahputra, MF 2024. Influence Closing Railway Doorstop against Delays and Queue Lengths at the intersection No Signal (Case Study: Intersection) Black Stump). Faculty of Engineering
- [78]. Tao, T., Wang, J., & Cao, X. (2020). Exploring the non-linear associations between spatial attributes and walking distance to transit. Journal of Transport Geography, 82, 102560.
- [79]. Tarka, P. (2018). An overview of structural equation modeling: its beginnings, historical development, usefulness and controversies in the social sciences. Quality & Quantity, 52, 313-354.
- [80]. Tjahyadi , Rully Arlan, Brand Trust in Context Brand Loyalty : The Role of Characteristics , Brand, Company Characteristics , and Customer Characteristics Customer-Brand Relationship (Bandung: Journal of Management) Faculty of Economics, Maranatha Christian University, 2006), 71
- [81]. Tjiptono , F., & Diana, A. (2020). Marketing . Yogyakarta: ANDI.
- [82]. Van Hagen, M., & Bron, P. (2014). Enhancing the experience of the train journey: changing the focus from satisfaction to emotional experience of customers. Transportation Research Procedia, 1(1), 253-263.
- [83]. Vassallo, J.M., Di Ciommo, F., & García, Á. (2012). Intermodal exchange stations in the city of Madrid. Transportation, 39(5), 975-995.
- [84]. Weijters, B., Geuens, M., & Baumgartner, H. (2013). The effect of familiarity with the response category labels on item responses to Likert scales. Journal of Consumer Research, 40(2), 368-381.
- [85]. Willberg, E., Tenkanen , H., Miller, H.J., Pereira, R.H., & Toivonen, T. (2024). Measuring just accessibility within planetary boundaries. Transport Reviews, 44(1), 140-166.
- [86]. Yao, L., Sun, L., Wang, W., & Xiong, H. (2012). Adaptability analysis of service facilities in transfer subway stations. Mathematical Problems in Engineering, 2012(1), 701852.
- [87]. Yue, M., Ma, S.H., Zhou, W., & Chen, X.F. (2022). Estimation markov decision process of multimodal trip chain between integrated transportation hubs in urban agglomeration based on generalized cost. Journal of Advanced Transportation, 2022(1), 5027133.
- [88]. Yun, T. G., & Lee, Y. I. (2010). A study on the evaluation method of level of service in transfer walking facilities. Journal of the Korean Society of Transportation, 28(1), 143-156.
- [89]. Yuliana, D. 2017. Influence Facilities, Services and Information Accessibility Regarding Satisfaction Level Passengers at Husein Sastranegara Airport, Bandung. Warta Ardhia, 43(1) 27–42.
- [90]. Yuniasti, Ika, Influence Quality Service and Trust To Satisfaction Consumer A Face Recognition Boarding Gate User at PT KAI Malang Kota Baru Station. Journal Administration and Management. E-ISSN 2623-1719, P-ISSN 1693-6876
- [91].
- [92]. https://www.commuterline.id/informasi-publik/berita/layani-43-ribu-lebih-pengguna-stasiun-tanah-abang-jadi-stasiun-tujuan-terbanyak-pengguna-commuterline-pada-akhir-minggu