

Shoppers' Perception on Physical Condition of Shopping Centers' Atmosphere at Different Lifecycle

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ARTICLE INFO

Received: February 05, 2012
Final revision: July 11, 2012

Keywords:

atmospheric stimuli,
design features,
consumer behavior,
shopping center lifecycle

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ABSTRACT

Shopping center with atmospheric stimuli design needs to be well formulated in marketing strategy to expose its competitive advantage. As a result, most designs included in the marketing tactic scheme pay more attention to all factors related to the lifestyle in order to make designs exist and be appreciated by the society. Design is one of the key factors of shopping center to gain its success. This research aimed to find out to what extent the visitors perception is different towards shopping centers which has different lifecycles. The research studied two things, first was exploratory research intended to find the embodiment of atmospheric (atmospheric variables). The second research was done in a quantitative method, (multiple regression). This research studied the perception of a hundred mall visitors regarding how the variables of the interior atmosphere affected their shopping habit. The independent variables in the research were the exterior features and building configuration, interior features and supporting facilities. The dependent variable was the the visitor behavior. As a conclusion, the atmospheric interior design of a mall that is embodied in its interior element supported the hypothesis which said that existence of experience which felt differently according to visitor perception at shopping centers in different lifecycle.

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In their development shopping centers can accommodate the characteristics of the modern people. They are becoming a place where everyone can easily find their spaces. In addition to making it easier for the people to do their activities inside the premises, the one stop

shopping point concept is a form of comfort offered by the modern shopping center as a direct response to the demands of the increasingly faster and more challenging life. Therefore, in review, the modern society is spending more of their time inside a shopping center. With various descriptions

mentioned above, it is evident that the activities inside the mall are no longer about functional shopping with personal motive. Therefore it is fitting to say that as the place where urban people do their activities, a shopping center functions as a transactional space as well as a space for social purposes and also a liminal space. In addition to being a place for purchasing items, a shopping center has several additional functions including shopping and social activities (Abaza, 2001).

As a transactional space, a shopping center has a lot of plus points because a comfortable design provides both trading and recreational functions. It also offers ease of shopping, saves time and cost of search. As a social interaction space, the presence of a shopping center really helps. The location of a shopping center is usually carefully chosen by the developer to make sure that it is strategically located and easy to reach. A shopping center is also equipped with various forms of open plaza or atrium to replace town square as community space although it is not as open as other public areas.

Open plaza and atrium here function as a receptacle for various cultural activities, both from and for the community, socially as well as in the function of product placement. An open plaza provides a location to interact for different communities. In addition, there are several places inside a shopping center, such as food court, which is used as the location for the city communities to independently socialize with one another. The phenomenon of the modern shopping center which also serves as a public space similar to town squares, city parks and streets, among others, has also been stated by Staeheli and Mitchel (2006). In some cases, a shopping center has replicated these conditions to such extent that it resembles shopping town in a smaller scale.

As stated by Goss (2007), a shopping center is a market place where various kinds of humanity keep evolving, starting from the attractive objects

on offer to the energy or spirit obtained from gathering masses where a lot of unexpected adventures, direct selling, opportunities of making encounter and community, happen. (Bakhtin on Goss, 2007).

On the one hand, the rapid growth of retail transactional value in Indonesia is estimated to skyrocket from US\$ 135 billion in 2011 to US\$ 223 billion in 2015, establishing the stronger position Indonesia has in the field of retail. Coupled with the high level of trust among people in the property business, the investment level in Indonesia is expected to stay positive. Considering the abovementioned prediction, the growth of the Indonesian shopping center is certain. The existence of a shopping center will provide a positive contribution towards local as well as national economic development. On the other hand, regarding society as consumers, AC Nielsen Survey (The Marketeers, November 2011) stated that Indonesia placed third out of 56 countries on the list of Consumer Confidence Index. Indonesia was behind India and Saudi Arabia but had a position higher than Singapore, China and the USA. It means that the people of Indonesia, with a sample of 86% from the respondents, stated that their economic condition and shopping activities would be fine during the year 2012.

Next, an additional survey by AC Nielsen (Marketing Mix, 2009) disclosed that 93% of the Indonesian people consider shopping centers as a place for recreation. It can be concluded that for the Indonesian people a shopping center that provides a different experience, mostly in their physical design, is highly expected, just like what's being offered by modern shopping centers today. It is in line with the term coined by Pine and Gilmore (1998) to describe the present time, experience economy, where the functional need of a product will shift to make place for the value obtained by users as well as consumption value based on lifestyle and experience.

Therefore, in this line of thought, a shopping center is the right answer for a distribution receptacle in the retailer level that directly relates to customers. The packaging of an object, in this case a shopping center, brings added value to retailers' products. Shopping center as a design product must function as a creator of experience that can suit the current condition of the people, both for economic benefit (product differentiation and profit) as well as emotional benefit that is generated by the users, which in this context are visitors as the target market of a shopping center Williams (2006).

Atmosphere of a Shopping Center Affects Shoppers' Behavior

According to the Oxford Dictionary, the word of atmosphere has two meanings. The first is denotative, meaning the envelope of gases that surround the earth, while the second has a more connotative meaning, suggesting the mood of a place. Therefore in this context the topic puts an emphasis on layout design. Regarding the level of retail stores, Berman and Evans (2001:604) stated that in the planning of a store's atmosphere design there are several variables that should be taken into account: store exterior, general interior, interior layout and interior display. In

shopping centers, we can say that design features comprise exterior, building configuration and interior features (Kramer, 2008). Exterior and building configuration features include building materials, building entrances, canopies, signage, night lighting, truck service facilities, and building configuration. Meanwhile interior features consists of tenant spaces, building flexibility, kiosks, food court, multi levels, storefronts, store size, basement, interior wall, flooring, lighting, heating and air conditioning. These two features are integrated and regarded as atmosphere.

Shopping center design creates new experience through the atmosphere that is perceptually felt by the human senses. New forms and concepts as well as creative ideas regarding the creation of experience and how to have a shopping center with a point of interest for consumers should be considered. Similar to a recreational center, a unique design will help tenants creatively create a theatrical store ambience for visitors. This way, visitors can feel the comfort of shopping with more introductions of new experience created by retailers. This experience involves various sensory reactions (for instance visual appearance, sound, smell, and texture).



Image 1. Atmosphere that Provides Experience in a Jakarta Shopping Center

Atmosphere created from a design will provide a sense of place for the location. Atmosphere then acts as a stimulus for visitors so that in the process they will respond through their actions (whether deciding to stay in the shopping center and explore the place or leaving the shopping center). Positive actions from visitors as a result of the appropriate sense of place will provide a deep perception which leads them to go back to the place. A repetitious action to visit a shopping center is a cyclical sequence that induces place attachment (an emotional bond with a place because of an integrated condition between physical and social surrounding). Cyclical here means activities which are not related to the chronological timeline but more about the significance of meaning and how often the activities are conducted in a certain place (Altman and Low, 1992). In some earlier researches, place attachment in a shopping center could be seen in visitors who have similar personal concept and lifestyle to the characteristic of the shopping center. Place attachment can happen through the medium of personal and social meanings if both the physical and social meaning or symbol of a place is in line with one's personal image (sign or locus of the self) (Lavin & Agatstein, 1984; Proshansky et al., 1983; Rapoport, 1982s on Altman and Low (1992). Place Attachment. New York Plenum Press, p. 258.

Based on the descriptions above it can be indirectly said that the right shopping center atmosphere can boost the level of attraction, and even influence the next step: the level of attachment visitors feel towards the shopping center. From the management's perspective, Kotler (1973) stated that the atmospheric condition of a shopping center has several desirable effects on visitors. First, atmosphere can help steer visitors' direction and duration span, thus enhancing probability of purchase. Second, atmosphere can express various characteristics of a shopping center and conjure images for visitors. Lastly, atmosphere can provoke emotional reaction from visitors such as excitement and eagerness to look around so

that it can be appealing for the shopping center management. This is because, first of all, different from a lot of influential situations which are out of their control, retailers have the ability to create atmosphere as a controllable variable. Also, this influence can be directed towards visitors with the right target.

With the right design, a shopping behavior can be created. A design functions as a stimulus that affects the behavior.

Atmosphere as Marketing Tactic and Shopping Center's Lifecycle

The success of a shopping center is supported by various factors (Wee and Tong, 2005), including location, visibility, ease of access, dimension, planning and design, anchor tenant, tenant mix, image building strategy, marketing and management, as well as customers' oriented thinking pattern. These nine factors are all interrelated and supportive of one another. Therefore a good design will encourage the shopping center to become visitors' number one choice and place its image according to the required segmenting, targeting and positioning strategy. This way, a design can accommodate marketing activities in each purchasing situation and this will be interesting for the shopping center's customers, including retailers as tenants and the society.

Furthermore, Peter and Olson (2002) divided the five generic situations that affect consumers' shopping behavior into: information obtaining situation, shopping situation, buying situation, consumption situation and throwing away situation. In each stage of situation, a shopping center's design can become a tool to create the best tactic according to strategy.

In information obtaining situation, for instance, consumers find relevant background situation to select their shopping destination. Next, in shopping situation, a design can also act as tactic. Customers

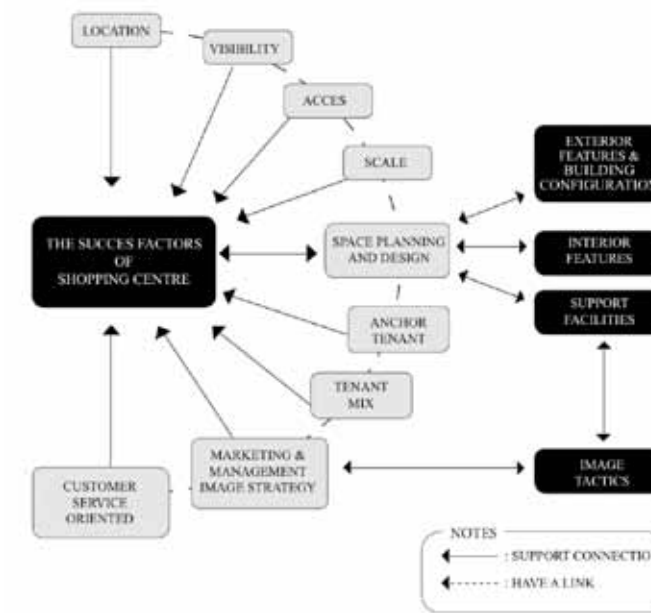


Image 2. The Shopping Center's Nine Keys of Success
Source: Wee and Tong, 2005

must easily find products in a store according to their wishes and needs and here the tactic can be implemented—an excellent shopping center layout will certainly boost the visibility of a store. The same thing happens again in each situation so it can be concluded that design is a cohesive tactic in every integrated situation with the presence of various retails. Also, it cannot be related to the lifecycle of the product and shopping center itself.

Regarding marketing, the lifecycle concept can also be applied to shopping center as a business entity (George, 1997; Ferring, 2001:44 on Nicoletta and Christian, 1998). Lifecycle of a shopping center can be divided into innovation (launch), growth (accelerated development), maturity and decline (Berman & Evans, 2001: 148, Lowry, 1997: 78).

In the innovation stage, the market is still very open and the competition limited, especially when a shopping center offers a new concept. So there is opportunity to rapidly develop and attract a lot of enthusiastic shoppers. The developer usually strives to adjust the initial concept with market demand and attempt to attract visitors with various imaging methods. It will also seek long term lease

on high rental rates. Meanwhile, retailers usually try to display early imaging and minimize operational problems in the opening stage and adjust them to their design and the shop's marketing strategy.

In the accelerated development stage, the market will develop faster than in the innovation stage. The development will be very popular and will follow the market because of increasing store traffic and sales growth. The developer will keep doing promotional and imaging efforts but fewer than in the previous stage. There will also be maintenance efforts and minor renovations on the building. Retailers will also lower their promotional effort, but keep them stabilized and maintain moderate discounts. This is an aggressive adjustment stage between product variety and market demand.

Next in the maturity stage, similar competitors will start to emerge, imitating both the business concept and building design. Store traffic is getting steady while sales are stable, even slowing down sometimes. Developer will usually push advertising and imaging efforts more to maintain its position, there will be minor renovation works and maintenance. Often in order to maintain

their position a major renovation or make over is necessary. Tenants will show moderate responses, still sticking with products popular with the market while assuming a more professional conduct.

In the decline stage, the shopping center is at a weakening condition, store traffic is down and the sales growth negative. The developer, should a

shopping center reaches this stage, has to do an extensive reformatting and efforts to keep their tenants and visitors. In order to lease spaces, long term is reduced to short term. Retailers usually keep advertising and promotion moderate but conduct extensive sales and price discounts. Shops' dimension will be reduced and the type of store that remains is caretaker stores.

Table 1. Shopping Center Life Cycle

	Importance Consideration	Launch/ Innovation	Growth/ Accelerated Development	Maturity	Decline
Market Factors	Number of Competing Centers	Very few	Rapid Growth	Many of the same type of center	Many of the same and newer types
	Amount of shopper traffic generated	Increases rapidly	Steadily Increases	Stable amount	Steadily increases
	Rate of Sales	Very Rapid	Rapid	Moderate to slow	Slow or Negative
	Vacancy Rate	Low	Moderate	Moderate	High
	Control Exerted by Developer	Extensive	Moderate	Extensive	Moderate
Shopping Center Development Strategies	Advertising and promotional activities	Extensive	Moderate	Extensive	Moderate
	Renovation of Facilities	None	Minor modification	Maintenanece of Existing Facilities	Neglect or extensive reformatting
	Effort to attract new retail tenants	Extensive	Moderate	Moderate	Extensive
	Rental Rates	High	High	Competitive	Low
Retail -Tenant Strategies	Length of Lease	Long	Long	Moderate	Short
	Advertising and promotional activities	Extensive to create awareness	Moderate to draw greater interest	Extensive to compete on price	Moderate to remind sale price
	Special sales and price discounts	Few	Moderate	Extensive	Extensive
	Merchandise offerings	Preplanned variety and assortment	Variety and assortment to the market	Stable variety and assortment	Reduced variety and assortment
	Store size and Layout	Prototype model	Adjusted to meet market demant	Stable Size	Scaled down
	Type of Store	Entrepreneurial	Aggressive	Professional	Caretaker

Source: Lowry, J.R (1997) on Ioana Abrudan and Dabija, Christian (2009)

The four stages of lifecycle concept as mentioned above will study and identify how an age pattern can influence the existence of a shopping center. Atmosphere design as marketing tactic will also have to follow the lifecycle because it will have a different perception for each lifecycle. The difference is a result of advancement in time, technology and lifestyle, which also change visitors' view of the shopping center.

The research below will elaborate more about visitors' perspective regarding the atmosphere design of two shopping centers with different atmospheres because they were built in different eras, where atmosphere is regarded as one of the success factors of a shopping center (Wee and Tong, 2005).

METHODS

Research through Exploration and Use of Multiple Regression

The research aimed to examine the relationship between visitors' perception of atmosphere design

as stimuli. It was done in two Surabaya shopping centers.

The research was divided into two stages: the first being the exploratory research and the second using multiple regression. The exploratory research was done to recognize the attributes connected to consumers according to the design features attributes of Kramer (2008). The resulting attributes were then used for the second stage research which used multiple regression to examine the relationship between them. Variables used in the research were independent variables and dependent variables where the variables from atmospheric stimuli could be defined as independent variables with exterior features, interior features and support facilities whereas dependent variable was visitors' behavior. The research model can be seen in the schematic below.

Subject and Object of Research

The research subject was the perception of a

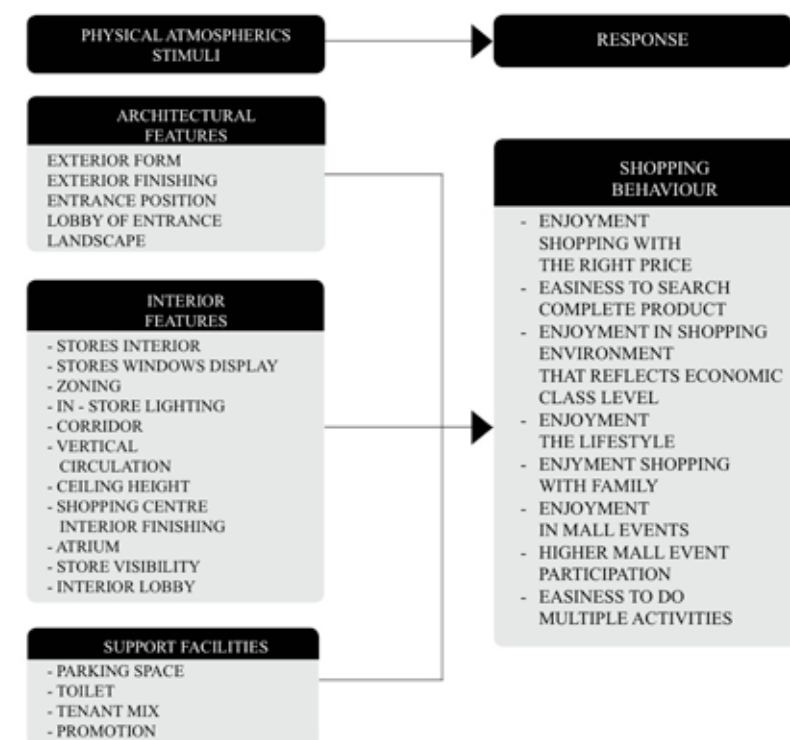


Image 3. Research Model

shopping center's atmosphere design, obtained from 120 visitors in two shopping centers. Specifically, 60 people were surveyed in shopping center X and 60 people in shopping center Y.

The research objects were two malls in Surabaya, one was built in the first era and the other in the most recent era, both of them have spatial characteristic as iconic architecture and stand on different lifecycles. The two retail centers in Surabaya have a certain bond with people of the city but from the researcher's empirical point of view, the malls are considered relatively successful in fulfilling the criteria for a mall to show its existence. They are shopping center X (built in 2012, just entering launch phase/ innovation phase in lifecycle stage) and shopping center Y (built in 1987 and is still in growth phase /accelerated development to maturity in lifecycle stage) in Surabaya. Seen from their sizes the two are categorized as regional super shopping centers, with a gross leasable area of more than 1,000,000 (in square feet), with three or more department store anchor tenants alongside discount and clothes stores as well as other specialty stores, and catering to the needs of more than 300,000 people.

RESULTS AND DISCUSSION

Multiple Regression on Mall X Data (Built in 2011)

All of the data analyzed in this stage had gone through assumption test and was stated as normally distributed, with no multicollinearity, autocorrelation and heteroskedasticity. This was then explained in three steps: multiple regression analysis which resulted in regression equation, influence of atmosphere design (with

simultaneous variables of exterior features and building configuration, interior features, and support facilities) towards shoppers' shopping behavior, and partially examined the significance of these variables' contribution and finding its determination coefficient.

First, to find the influence of exterior features and building configuration (X₁), interior features (X₂) and support facilities (X₃) towards shopping behavior (Y), a double linear regression analysis was used with the following equation:

$$Y = a + b_1X_1 + b_2X_2 + b_3X_3$$

Where:

- Y = Shopping behavior
- X₁ = Exterior Features and Building Configuration
- X₂ = Interior Features
- X₃ = Support Facilities
- a = Constant
- b₁, b₂, b₃ = Regression Coefficient

Next, the result of software SPSS 13 for the double regression analysis is presented in the Table 2.

According to the calculation on the above table, an equation of double linear regression was obtained:

$$Y = 0.950 + 0.148 X_1 + 0.353 X_2 + 0.215 X_3$$

The regression coefficient value on the independent variables stated that if it is predicted that the independent variables has a one unit increment and the values of other independent variables are predicted to be constant or equal

Table 2. Multiple Regression Analysis

Variable	Regression Coefficient	Std. Error	t	Sig.
(Constant)	0.950	0.462	2.057	0.044
X1	0.148	0.105	1.404	0.166
X2	0.353	0.109	3.242	0.002
X3	0.215	0.094	2.295	0.025

Table 3. Overall Hypothesis Examination (Test F)

F Count	df	F table	Sig	Description	conclusion
12.766	df1 = 3	2.769	0.000	Ho rejected	Significant

Table 4. Partial Hypothesis Test (Test t)

Variable	t count	df	t table	Sig	Description	conclusion
X1	1.404	56	±2.003	0.166	Ho accepted	Not Significant
X2	3.242			0.002	Ho rejected	Significant
X3	2.295			0.025	Ho rejected	Signifikan

Table 5. Model Summary^b

Model	R	R Square	Adjusted R Square	Std. Error of the Estimate
1	.637 ^a	.406	.374	.38819

a. predictors: (Constant), X3, X1, X2
b. Dependent Variable: Y

zero, then the dependent variable is expected to go up or go down according to the regression coefficient mark of the independent variables

Second, in order to find the significance of the collective independent variables' influence mentioned above, test F was used and according to the SPSS calculation resulted in the Table 3.

From the Table 3, the value of F was calculated at 12.766. Because the calculated value of F (12.766) > F in the table (2.769), then Ho was rejected. Therefore it can be concluded that simultaneously there is a significant influence of exterior features (X₁), interior features (X₂) and support facilities (X₃) towards shopping behavior (Y).

Third, in order to find the significance of independent variables towards their independent variables, test t was used and according to the SPSS calculation resulted in the Table 4.

Fourth, to find out about the collective relation of the exterior features & building configuration (X₁), interior features (X₂) and support facilities (X₃) towards shopping behavior (Y), correlation analysis was used (R).

According to the calculation output of SPSS software above, the correlation coefficient (R) was

calculated at 0.637. This shows there is a strong relationship between architecture / exterior (X₁), interior features (X₂) and support facilities (X₃) towards shopping behavior (Y).

The large influence of exterior features & building configuration, interior features and support facilities towards shopping behavior is shown through the determination coefficient with the formula:

$$KD = R^2 \times 100\% \\ = (0.637)^2 \times 100\% \\ = 40.6\%$$

This means the variables of exterior features & building configuration, interior features and support facilities contribute 40.6% towards the comfort level. Meanwhile, the remaining 59.4% of the comfort level can be explained through other variables which were not tested.

Multiple Regression on Mall Y Data (Built in 1987)

First, to find the influence of exterior features and building configuration (X₁), interior features (X₂) and support facilities (X₃) towards shopping behavior (Y), a double linear regression analysis was used with the following equation:

$$Y = a + b_1X_1 + b_2X_2 + b_3X_3$$

Where:

Y = Shopping behavior

X₁ = Exterior Features and Building Configuration

X₂ = Interior Features

X₃ = Support Facilities

a = Constant

b₁, b₂, b₃ = Regression Coefficient

Next, the result of software SPSS 13 for the double regression analysis is presented in the Table 6.

According to the calculation on the above table, an equation of double linear regression was obtained:

$$Y = 1.909 + 0.211 X_1 + 0.163 X_2 + 0.042 X_3$$

The regression coefficient value on the independent variables stated that if it is predicted that the independent variables has a one unit increment and the values of other independent variables are predicted to be constant or equal zero, then the dependent variable is expected to go up or go down according to the regression coefficient mark of the independent variables

Second, in order to find the significance of the collective independent variables' influence mentioned above, test F was used and according to the SPSS calculation resulted in the Table 7.

From the Table 7, the value of F was calculated at 3.791. Because the calculated value of F (3.791) > F in the table (2.769), then Ho was rejected. Therefore it can be concluded that simultaneously there is a significant influence of exterior features (X₁), interior features (X₂) and support facilities (X₃) towards shopping behavior (Y).

Third, in order to find the significance of independent variables towards their independent variables, test t was used and according to the SPSS calculation resulted in the Table 8.

Fourth, to find out about the collective relation of the exterior features & building configuration (X₁), interior features (X₂) and support facilities (X₃) towards shopping behavior (Y), double correlation analysis was used (R).

According to the calculation output of SPSS software above, the correlation coefficient (R) was calculated at 0.637. This shows there is a strong

Table 6. Multiple Regression Analysis

Variable	Regression Coefficient	Std. Error	t	Sig.
(Constant)	1.909	0.460	4.152	0.000
X1	0.211	0.150	1.407	0.165
X2	0.163	0.155	1.047	0.299
X3	0.042	0.120	0.349	0.728

Table 7. Overall Hypothesis Examination (Test F)

F count	df	F table	Sig	Description	Conclusion
3.791	$\frac{df1 = 3}{df2 = 56}$	2.769	0.015	Ho rejected	Significant

Table 8. Partial Hypothesis Test (Test t)

Variable	t count	df	t table	Sig	Description	conclusion
X1	1.407			0.165	Ho accepted	Significant
X2	1.047	56	±2.003	0.299	Ho accepted	Significant
X3	0.349			0.728	Ho accepted	Not Significant

Table 9. Model Summary^b

Model	R	R Square	Adjusted R Square	Std. Error of the Estimate
1	.411 ^a	.169	.124	.44978

a. predictors: (Constant), X3, X1, X2

b. Dependent Variable: Y

relationship between architecture / exterior (X₁), interior features (X₂) and support facilities (X₃) towards comfort level (Y).

The large influence of exterior features & building configuration, interior features and support facilities towards shopping behavior is shown through the determination coefficient with the formula:

$$\begin{aligned} KD &= R^2 \times 100\% \\ &= (0.411)^2 \times 100\% \\ &= 16.9\% \end{aligned}$$

This means the variables of exterior features & building configuration, interior features and support facilities contribute 16.9 % towards the comfort level. Meanwhile, the remaining 83.1% of the comfort level can be explained through other variables which were not tested.

Comparison between Two Shopping Centers

Table 10 is a comparison between two shopping centers which describes lifecycle stages, respondent characteristics, multiple regression equations and hypothesis examination on overall variables, partial hypothesis testing, determination coefficient and mean of related descriptive statistic of each variable.

There are several topics to discuss here, which are:

1. Both in the cases of shopping centers X and Y, it was proven that a shopping center atmosphere is related to shopping behavior.
2. In the case of shopping center X, a facility recently built in 2012, it is different from the condition of shopping center Y which was

built in the early era of shopping center boom in Surabaya in 1987. But both shopping centers are considered successful to this day. The age of a shopping center influences its trendiness because shopping activities are influenced by lifestyle and fashion. Shopping center in the innovation stage era tends to do extensive imaging and advertising efforts (Lowry, 1997). Therefore design in innovation stage becomes very important and acts as a competitive advantage in providing shopping experience. Shopping center in accelerated development and maturity phase stages usually only do a few maintenance and simple renovation works. Therefore perception towards atmosphere can change along with the changes of era and age of a shopping center. This is evident in the determination coefficient of shopping center X (40,6 %) which is bigger than shopping center Y (16,9 %), where the mean value of shopping center X in various variables tend to be higher than shopping center Y.

3. Positioning of a shopping center also influences the atmosphere design of a shopping center. Shopping center X represents a lifestyle center with flexible forms so when surveyed, most of its visitors answered they went there for recreational purposes and relaxing with family, although some went with the main reason to shop (31.67%). On the other hand, shopping center Y, with a more functional atmosphere, offers more preference for visitors with the main reason to shop (43 %). With longer operational time, various tenants and their locations are already known by visitors. Also select tenant combination that stays in keeping with the demands of visitors is the strength of shopping center Y. As a note,

Table 10. Comparison between Two Shopping Centers in Surabaya

Comparator	X Shopping Center	Y Shopping Center
Lifecycle Stage	Innovation Stage	Accelerated Development to Mature Stage
Respondent Characteristics	<ol style="list-style-type: none"> Most respondent aged 18-30 years old (50 %), 30-42 years old (36 %) Employee of private companies (70 %) Spending between 1-5 million, not including home & car installment (68.33%) Reason to visit mall: to shop (26.67 %), recreational purposes (31.67 %), meeting community (23.33 %), relaxing with family (13.33 %) Location with interesting design : dining area, food court and atrium 	<ol style="list-style-type: none"> Most respondent aged 30-42 years old (43.33 %), 18-30 years old (40 %), others (16.67 %) Employee of private companies (78.83 %) Spending between 1-5 million (55%) and 5-10 million (31.67 %) Reason to visit mall: to shop (43.4 %), recreational purposes (20 %), learning something new and relaxing with family (each 13.3 %) Location with interesting design : food court
Multiple Regression Equation	$Y = 0.950 + 0.148 X_1 + 0.353 X_2 + 0.215 X_3$	$Y = 1.909 + 0.211 X_1 + 0.163 X_2 + 0.042 X_3$
Hypothesis Testing on Overall Variables	Significant	Significant
Partial Hypothesis Testing	X1 Not Significant X2 Significant X3 Significant	X1 Not Significant X2 Not Significant X3 Not Significant
Determination Coefficient	40.6 %	16.9 %
Mean of Architectural Features & Building Configuration	3.850	3.450
Mean of Interior Features	3.836	3.650
Mean of Support Facilities	3.771	3.129
Mean of Shopping Behavior	3.836	3.650

- it often conducts numerous activities at the same time in its premises.
- In the simultaneous hypothesis testing on variables in both X and Y shopping centers, the results were the same. It means the three variables in a shopping center atmosphere (architectural features & building configuration, interior features and support facilities) decidedly influence shopping behavior.
 - In the partial hypothesis testing, there is a

- difference between shopping center X and Y. In shopping center X, two variables (interior features and support facilities) partially affect shopping behavior while exterior features & building configuration variable does not. This might be because most visitors' activities are centered in the interior space of the shopping center. While in shopping center Y, none of the variables separately influences shopping behavior.
- The mean value averages above the medium

value (3) / average value so that it can be concluded that according to visitors' perception both shopping centers have appearances that are above average. In shopping center X and Y, the highest mean is in the interior variable with a value of 3.83 in shopping center X and 3.50 in shopping center Y. The lowest value in shopping center Y is in the support facilities variable with a value of 3.129, as a result of the unchangeable architecture condition of the building so that the only thing that can be altered is the finishing material.

CONCLUSION

The conclusions that can be drawn here are:

- There is a relationship between atmosphere of a shopping center and shopping behavior where the value also depends on other factors that combine to determine the success of a shopping center such as location, visibility, ease of access, dimension, anchor tenant, tenant mix, image building strategy, marketing and management, and customers' oriented

- thinking pattern. Here, atmosphere of a shopping center is one of the success factors.
- The lifecycle of a shopping center affects visitors' perception towards a shopping environment which will also be related to shopping behavior. The up-to-date quality of an atmosphere design provides a higher value regarding its influence on shopping behavior. A shopping center's design which is lifestyle and fashion oriented should also be renewed from time to time. But similar to the previous conclusion, shopping behavior is not only determined by shopping center atmosphere. There are also other factors not explored in this research.
 - Visitor characteristic factor (especially age and reason to visit) as well as the shopping center's character concept influence perception and appreciation towards shopping center atmosphere which also affect visitors' behavior. ■

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