



## Place Shaping in Residential Area as a Process of Increasing Livable Neighbourhood

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### Abstract

The aim of the research is to explore the process of shaping place in a planned residential area. The increased livable community will also improve the quality of life. The research is a descriptive explorative with the quantitative and qualitative approach. The exploration of place shaping formation in research sample based on four variables, namely: management strategies, public areas, and activity generators, planning strategies and design strategies. The results of this study found that the process of shaping place in formal housing requires the cooperation of developers, planners, property management and residents. The settlement which can maintain the identity, function, order and appearance of the built environment can improve the livable neighborhood.

**Keywords:** place shaping, residential area, livable neighborhood

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### 1.0 Introduction

The growth population living in urban areas is increasing in developing countries. Based on the trend of growth population in urban areas, predicted 65% of the world population would live in urban areas in 2025. For the first time in the history of human settlements, urban dwellers exceed the number of rural residents. The process of globalization and the city changes that occurred resulted from the shifts in the urban system at the local level, the spread of towns and socio-spatial construction changes included in the settlement area. The growth of urban population in developing countries such as Indonesia has happened as a result of urbanization. The symptoms of urban growth like this raise the question, how can the city's growth and development be sustained? How can the citizen continue to grow and fulfill the needs for food, homes, jobs and safety? The livable neighborhood will affect the quality of life. So, to create a high quality of life, we should make some efforts to establish a livable community.

The efforts to create a livable neighborhood have a lot to do in the whole world. Stevens (2009) comparing the effort of healthy community design in America and the UK. In America, the feasibility of occupancy has long-term goals to improve environmental sustainability, by increasing the density, mix land use and improving the transportation system. While in the UK, the feasibility of the target occupancy focused on the management and development of space in the dwelling environment than planning a new built environment.

The aim of the research is to explore the process of shaping place in a planned residential area. The exploration needs to be done to improve the livable neighborhoods. There are three parts of the paper. The first part describes the background, purpose of the study and literature review. The second part described research methods and the implementation of investigation's process. The last part is describing the results, discussion, analysis and conclusions of the study. The objective of the research is to explore the process of forming the planned residential area as an effort to increasing livable neighborhood in the future.

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### 1.1 Livable Neighborhood

The design of residential environment closely linked to the quality of life. Every concept design of residential environment will form a different neighborhood quality of life. The formation of place as the spatial space where human activity becomes an important part in creating the livable community. Some researchers have different opinions about factors that affect the formation of a livable neighborhood. For example, the scale factor of public space in the residential area (McCann, 2008) and the factors of housing density and mitigate disasters (Pacione, 1990). The factor of concept design of built environment (Bajunid et al, 2012), and the factor of human comfort and capabilities within living environments (Conteh & Oktay, 2016) also the factors will affects livable neighbourhood.

The research of livable neighborhood has done with the goal to establish an ideal residential environment and achieving a high quality of life for its residents. Based on the residential satisfaction will arrange the framework increasing livable neighborhood. The description need of residential environment related to safety environmental (Sakip et al., 2013; Cinar & Cubukcu, 2013; Okunola & Amole, 2013), aspects of residential facility (Benefield, 2009) and the aspect of housing location (Kim et al., 2005).

Some studies show an interest in 'place shaping' as a way to create a livable neighborhood. Place shaping demands a robust integration of economic, social, cultural and environmental goals. Place shaping is about serving the needs of diverse communities (Carmona, 2014). That is why in this study requires a description about the choice of residential environment.

### 1.2 The process of shaping place

The process of developing the place in a residential area involving various professions. They transcended the public and private modes of development and all forms of partnership in between at different times and in different places in the neighborhood. There are three stages in the process of shaping area. (Carmona, 2014). The first stage is the identification of the history and tradition of the site. The second phase conducted an active process in place, such as the establishment of the design, construction, the use and management of the area and maintaining the site. The third phase is the establishment a synergy between stakeholders. The process of shaping area will continues and sustainable. At the stage of identification the tradition of the site, it will take the identity of a place in advance.

Several studies conducted to establish the identity of the area is done by forming branding first. Place branding is a key aspect of improving and promoting area (Hanna & Rowley, 2013). In some cases, the process of shaping place, before the second stage, will need the meeting with stakeholders for the socialization of physical implementation development. Caneparo & Bonavero (2016) mentions the scene by the incubators co-creative process and system. This process will assist the implementation of the third stage is the synergy between stakeholders. The results of the socialization can decide some strategic planning and strategic design on physical development. The decisions to manage the behavior in using public area more sustainable, such as sidewalk pattern, walkability (Shamsuddin et al., 2013), connectivity to public spaces, Commercial Street, and parks in a residential neighborhood (Anuar & Saruwono, 2013) will help to increase livable community.

### 1.3. Research Framework

Increasing livable neighborhood by arranging management strategy associated with housing trends, the role of local government and social, cultural opportunity. Each neighborhood has the different characteristics of social and cultural environment opportunity. (Lin & Long, 2008). If the management strategy is well executed, it will directly affect how to manage the public space and activity generators. Public areas should have connectivity with other destination in the residential area. This connectivity can influence the ease of walking and biking. Ultimately the decision residents make to walk, bike or drive for short trips. Likewise, the design strategy related to the design of sidewalks and landscape should support a strategy to improve walkability in a residential neighborhood.

Criteria for assessment the planned housing area are the four components of housing planning (Aulia, 2016), namely: (1) Management strategies (2) Public places and activity generator (3) Planning strategies and (4) Design Strategies as in Fig. 1 below. The fourth component of housing planning is also used by an architect to shaping place in a residential area.



Fig. 1. Research Framework

## 2.0 Methodology

The research of liveable neighborhood has done with different approaches and methods. Such as evaluating and ranking the livability based on occupant satisfaction (Kozaryn, 2013), assessing the residential area with the method of analytic hierarchy process (Chiang & Liang, 2013), and perform predictive factors increasing the livability based on the perception by occupants (der Pas et al., 2015). The evaluation used because the objective of the research is to get the formation of the livable neighborhood to get an idea of the occupant's needs of the residential environment. This research is a descriptive exploratory study with quantitative and qualitative approach

The evaluation conducted in two planned housing in Medan city, namely Taman Setia Budi Indah Estate and Johor Indah Permai Estate. Both housing estate is developed by private developers and has inhabited for more than 30 years. After so long occupied, neighborhood conditions are still right with property values still increased. Each housing has a public space that also serves as a generator activity. The place which remains livable at Taman Setia Budi Indah is the commercial center, while at Johor Indah Permai estate, is the mosque in the housing area. The observation of researchers at both of the generator activity becomes the basis on which the questionnaire distributed. The surveys conducted for three months in the afternoon and the end of the week. The distribution of the questionnaires based on the time when public space is in the most crowded area. Primary data collected by distributing questionnaires to residents to find out the established of place attachment in an open space and the description of residents need about the living environment. Then made the observations and interviews related to estate planning component to get an idea about the condition of each residential environment. The changing dynamics of social housing residents led to the changing of livable neighborhood indicator.

## 3.0 Findings

The questionnaires distributed to visitors of public spaces in the residential area. 64 respondents returned the survey in Taman Setia Budi Indah, while in Johor Indah Permai housing only 32 respondents. The distribution of questionnaires carried out when the public space crowded by residents, such as in the afternoon or holidays. From the allocation of the survey obtained the following results

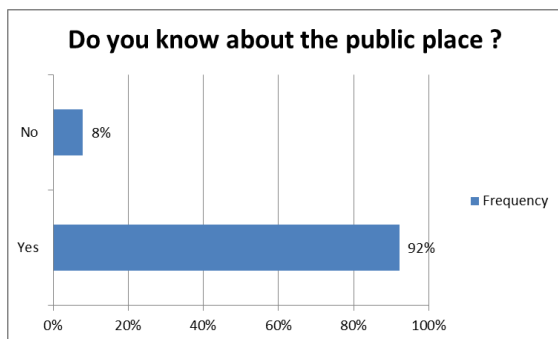


Fig. 2. Know about commercial center

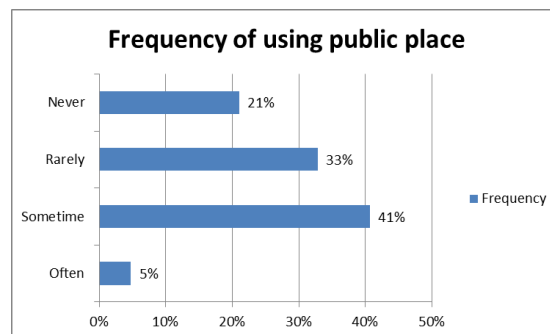


Fig. 3. Frequency of using commercial center

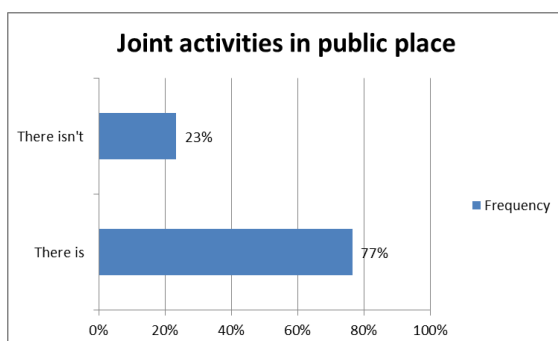


Fig. 4. Joint activities

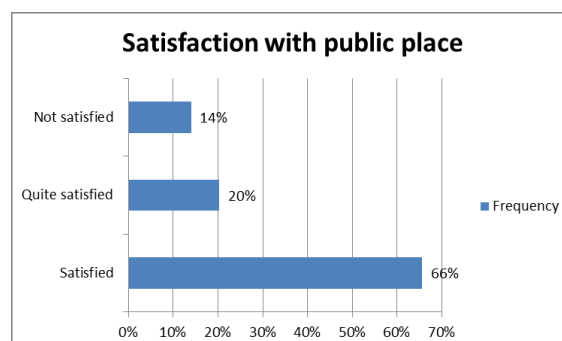


Fig. 5. Satisfaction with commercial center

In Figure 2 is seen almost 92% of respondents knew about the business center in Taman Setia Budi Indah. Although only 5% of respondents who frequently use these place (Figure 3). There are 41% of respondents who sometimes take advantage of the location and 33% of respondents rarely use the environmental center. Both groups of the user has the potential for increased the involvement in the commercial center of the neighborhood. To increase the use of business centers will need the changes in management and development of the place. Some activities regularly held in this area are a motor vehicle exhibition, book display and a variety of foods.

The residents should be involved in organizing activities; it appears that approximately 77% of the people do activities together, such as social interaction, eating, drinking, etc. (Figure 4). Occupants only serve as a consumer in the commercial center and not as a producer. Shirotzuki et al. (2010) suggested developing the concept of sense of place in public spaces so that residents also

participate in proposed the policy for the residential area. In Figure 5 appears that there are 66% of respondents who were satisfied with the facilities provided at the commercial center, followed by 20% feel quite satisfied and only 14% were dissatisfied. This condition illustrates that the existing commercial centers already meet the needs of residents although the process of shaping place can still be improved the maintenance further.

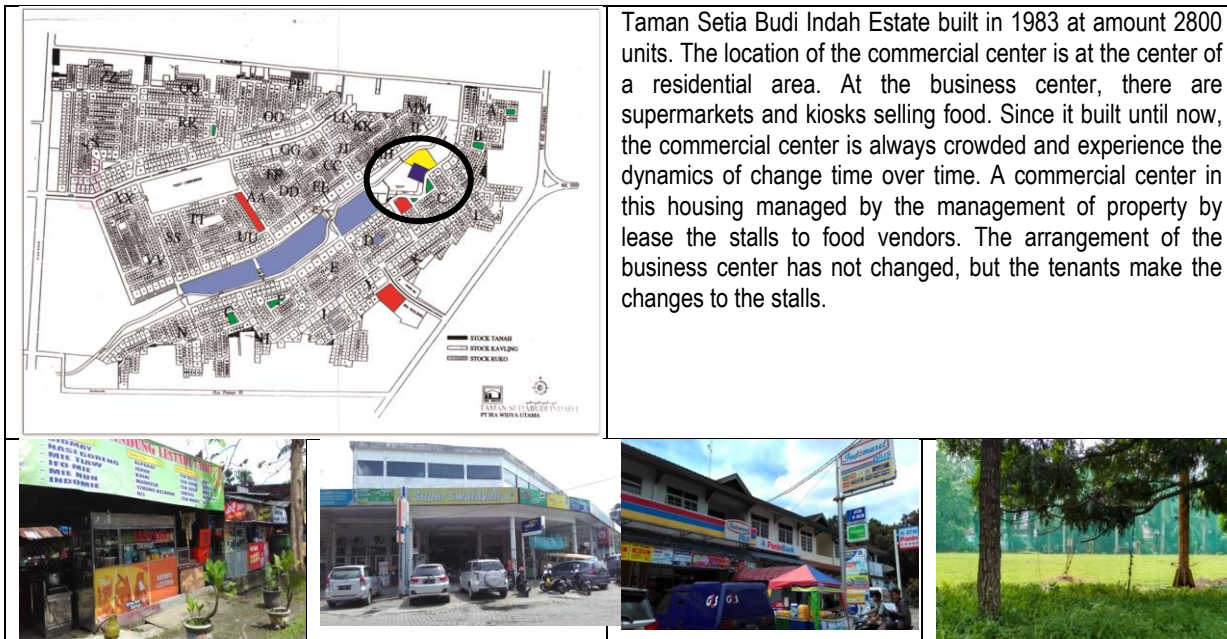


Fig. 6. The situation of commercial center at Taman Setia Budi Indah Estate

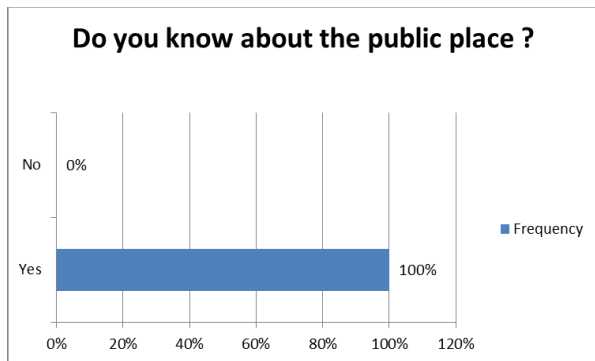


Fig. 7. Know about the mosque

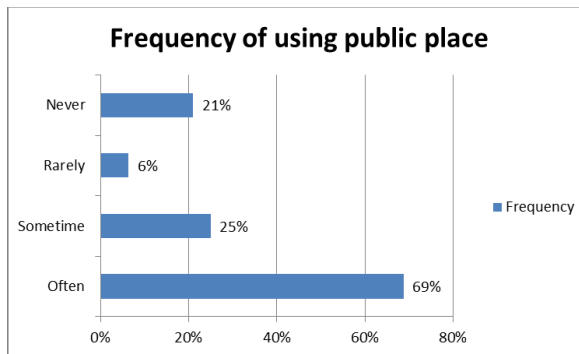


Fig. 8. Frequency of using the mosque

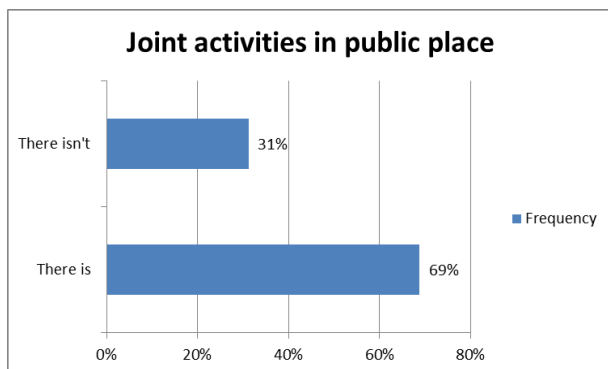


Fig. 9. Joint activities

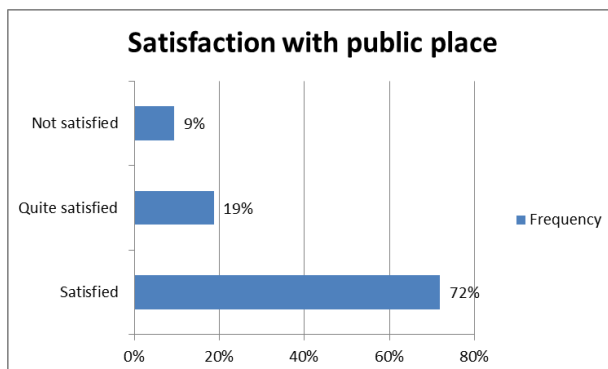
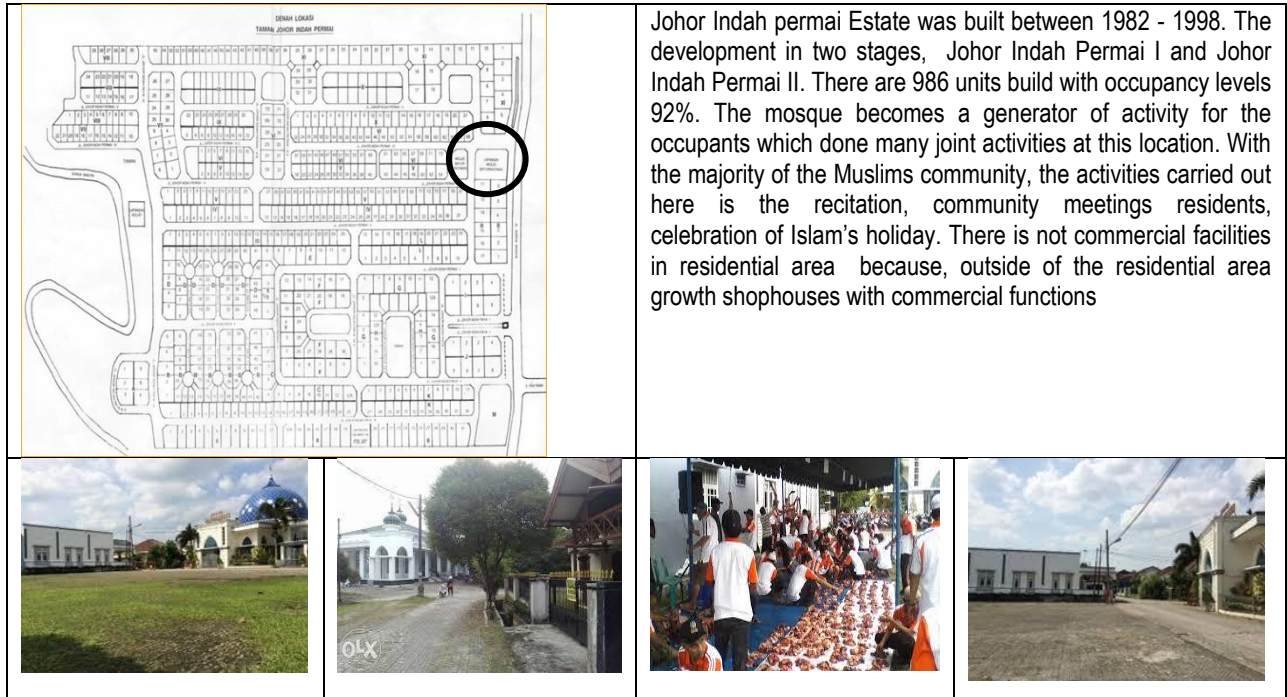


Fig. 10. Satisfaction with the mosque

Recapitulation of the distributed questionnaire in Johor Indah Permai Estate shows 100% of the people know the existence of the mosque (Figure 7). But there are 21% of the people who have never been there (Figure 8). Suspected that this group is not Moslems or they do not worship in a mosque or not to worship at all. But the mosque on this housing also serves as the activity center of the

occupants. The result can see from Figure 9 which indicates there were 69% of the people do activities together. As in Figure 11 where the residents held Hari Raya Idul Adha or Idul Fitri. And in Figure 10 indicate that 72% of respondents were satisfied with the presence of mosques.

Research conducted by (Baharudin & Ismail, 2014) which found that the mosque is a place to move communal Muslim worldwide. Much modern housing built now puts mosque Muslim community only as a symbol rather than to take advantage of functional community space. The design of the mosque in the residential area can also serve as a function of activity and socio-culture centers. Johor Indah Permai Estate did not have shopping facilities so that the mosque can use as a center for community Muslim in the neighborhood.



Johor Indah permai Estate was built between 1982 - 1998. The development in two stages, Johor Indah Permai I and Johor Indah Permai II. There are 986 units built with occupancy levels 92%. The mosque becomes a generator of activity for the occupants which done many joint activities at this location. With the majority of the Muslims community, the activities carried out here is the recitation, community meetings residents, celebration of Islam's holiday. There is not commercial facilities in residential area because, outside of the residential area growth shophouses with commercial functions

Fig. 11. Mosque situation in Johor Indah Permai Estate

#### 4.0 Discussion and Analysis

Research's results on public space and the generator housing activity analyzed based on the theory of increasing livable neighborhood (Figure 1). Then the evaluation will examine according to stages of shaping place's process in a residential area (Carmona, 2014) to get the achievement phase of the livable neighborhood. Based on the accomplishments of this stage are arranged the recommendation to increase livable community. The same way did on Johor Indah Permai Estate.

Table 1. Analysis Commercial Center at Taman Setia Budi Indah Estate

PLANNING COMPONENT	TAMAN SETIA BUDI INDAH ESTATE	ANALYSIS
PUBLIC PLACES AND ACTIVITY GENERATOR	The design of commercial center in the neighborhood as the main generator of activity. But the management and maintenance of the business center handed over to private actors as the tenants The design parks and commercial centers are still not connected by the sidewalk. The pattern of transportation in the area is vehicles oriented transport	The environmental management of commercial centers conducted by the management property. Recommendation: The economic actors involved in management and maintenance the area. The activities sustainable during 30 years because the commercial space is already there. But the process of shaping place should proceed again to the second stage of the design of the built environment with an attractive commercial function. (Carmona, 2014)
DESIGN STRATEGIES	The sidewalk did not design hierarchically and patterned. The path built along a street pattern. The sidewalk did not connect the parks, commercial center. The connectivity should be a priority in the design of sidewalk  Landscape design merely fills the open space in addition to residential buildings. There is not a clear hierarchy between open space one another. The majority of the occupants use for sports activity.	Preferably the sidewalk connecting any destination in the area. The sidewalk should not follow the internal road network of a motor vehicle, but it can go directly to destinations within the existing infrastructure in the housing (Larco et al., 2014) Designing landscaping should: - Creating a useful open space and attractive - Using natural elements to create spaces of privacy - Creating an identity for each open space
PLANNING STRATEGIES	The housing designed with a landed house types and mix use. The activities of walking and cycling is not a top priority.	The pedestrian from the commercial center should be connected to all destinations in a residential area to make the distance becomes shorter. (Larco et al., 2014).

	Pedestrian and bicycle path into one lane motor vehicle. Walkability in a residential area not created. Commercial center only connected to the motor vehicle lanes	Need to develop friendly bike path to other destination in the area. Need to develop places to put the bike safe and comfortable
MANAGEMENT STRATEGIES	The results showed the potential of socio-economic in the process of shaping place	Management property need to coordinate the economic stakeholder and planning joint activities periodically. (Carmona, 2014). This activity will enhance the economic potential and improve the social link between stakeholders

Table 2. Analysis Community Mosque at Johor Indah Permai Estate

PLANNING COMPONENT	JOHOR INDAH PERMAI ESTATE	ANALYSIS
PUBLIC PLACES AND ACTIVITY GENERATOR	The placement of community mosque is located in front area but do not have a clear entry from the main gate housing City mosque has parking space for the visitors. The parking area also be used for activities at Muslims holiday such as Idul Fitri and Idul Adha	The appearance of Mosque quite attractive because surrounded by open space. Characteristics of liveable communal mosque focus on architectural form rather than spatial organization (Baharudin & Ismail, 2014)
DESIGN STRATEGIES	The placement of mosque is not at the center of the residential area. Majority occupants access the mosque vehicle  There is not planted trees surrounding the mosque. The open space becomes dry and reflecting solar radiation into the mosque	The communal mosque should be connected by sidewalk to all destinations within the area so that residents will be easier to reach the mosque. Landscape design around the mosque should use natural elements to create a more habitable development (Larco et al., 2014)
PLANNING STRATEGIES	Pedestrian and bicycle lanes merge into the lane of the vehicle. Walkability in the area not created.	Need to develop friendly bike path and places to put the bikes safely and comfortable. The Muslim community has access to the mosque for religious activity by walking or cycling. (Larco et al., 2014)
MANAGEMENT STRATEGIES	The results showed the potential of socio-economic and socio-cultural in the process of shaping place. But this potential has not managed well so that the condition is not optimal	Muslim organization needs to coordinated with management property to improve utilization of the mosque is not only a place of worship but also as a center of social and cultural activities and education. The mosque can serve as a communal Muslim catalyst (Baharudin & Ismail, 2014) not only for the residents but also for other housing residents around the area.

The result of discussion and analysis showed the process of increasing livable neighborhood requires a different approach depending on the socio, economic and cultural situation in the neighborhood. Characteristics of surrounding area imply opportunities on how the area would have to be treated and utilized. The shaping process for increasing liveability requires the involvement of various parties. (Pacione, 1990). These findings suggest that research into the process of shaping place to achieve a livable neighborhood remains to be done to further research in the case of another residential area.

## 5.0 Conclusion and Recommendation

The results of this study will contribute to the improvement of a livable neighborhood that has long inhabited. Housing has long been occupied at least have the identification of the history and tradition of the place that can use as a basis for improving the liveable neighborhood. The processes of shaping place with different functions require different strategies and stakeholders as well as in the sample of the research above such as the commercial center and Mosque community. This study provides a new research direction that to increase livable neighborhood can be used the fourth planning strategies namely management strategy, planning strategy, design strategy and public place and activity generator to assess other housing types that have long inhabited.

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