

# Assessment of Adaptable Urban Environment for Public Art Integration via Observation Study

Muhammad Falihin Jasmi 1, Nik Hanita Nik Mohamad 2

<sup>1</sup>Institute of Graduate Studies, Faculty of Architecture, Planning and Surveying, Universiti Teknologi MARA (UiTM) Shah Alam, Selangor, Malaysia <sup>2</sup>Centre of Studies in Landscape Architecture, Faculty of Architecture, Planning and Surveying, Universiti Teknologi MARA (UiTM) Puncak Alam, Selangor, Malaysia

falihinjasmi@gmail.com

#### Abstract

In Malaysia, there is an unprecedented interest in public art, especially in the major cities. Notwithstanding the increasing interest, however, the rationale and placement of it is extensively debatable. Therefore, this paper aims to examine the adaptable urban environment for public art integration towards enhancing the image of Johor Bahru City Centre, through an observation study. It identifies the urban morphology that substantiates development of suitability plan for public art placement, whilst refining legibility, connectivity, and urban fabric. The outcome of this paper is hoped to support related professionals in defining guidelines and strategies for public art, towards liveable city.

Keywords: Public Art; Urban Environment; Adaptable Environment; Urban Morphology

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### 1.0 Introduction

Public art had evolved and established in a variety of forms and materials; from an integrated artwork on the building surface (mural and graffiti), free standing sculpture, statue, and monument, towards modern technology-integrated artwork such as digital display and vertical greenery. Instead of standing as a landmark in a city centre, series of public art could provide a visual sequence that improves connections between spaces, enhance the visual experience for the public and consequently help them to understand and memorize the legibility of the city. It contributes to an enhancement of public realm, successful place making and development of cultural and social capital (Australian Institute of Landscape Architecture, 2010). The public art's impact on the community is priceless, as it adds to the understanding of a place, its past, and current physical environment and cultural fabric (Nurul Izzah et.al, 2014). Additionally, public art boosts city economy and give benefits to the community. According to City of San Diego Commission for Arts and Culture (2004), a lively public art program has sustained economic strength and engrossed individuals and companies, which can promote and facilitate prosperity for the citizens.

In Malaysia, there is an unprecedented interest and excitement in public art, especially in the major cities of Kuala Lumpur, Georgetown, Ipoh, Shah Alam and Johor Bahru. Notwithstanding the increasing interest, however, the rationale, locality, and placement of public art in Malaysia are essential issues that need to be addressed, particularly in the realm of built environment. Cardiff County Council (2005) stated that public art should be placed in publicly accessible and visible spaces, which is open for public appreciation and interaction. Meanwhile, Irish Museum of Modern Art (2008) cited that the establishment of public art often responds to the public place and its specification; it's setting, current site activity, significance and history. Currently, public art in Malaysia are mostly installed to fill the empty and lost urban spaces which overturn the objective of public art as a public object (Flynn, 2013) thus leading to vandalism. Furthermore, several public art implemented at the chosen sites are placed just for the sake of beautification without responding to any narration of symbolism of history, celebration of an event or other humanistic factors. Therefore, this paper aims to examine the best adaptable urban environment for public art integration towards enhancing the image of Johor Bahru City Centre through an Observation study. The objectives of this paper are (a) to determine the characteristic and morphology of study area that significantly contributes to the integration of public art program and (b) to establish suitability plan for public art placement towards a liveable city.

# 1.1 Case Study: Johor Bahru City Centre

Johor Bahru City Centre is chosen as the study area for its strategic location at the southern entrance of Peninsular Malaysia (via land), which provides the first impression among both the international and local tourists (Figure 1). The primarily invaluable multicultural and prosperous history of Johor Bahru offers cultural significance for public art purposes. As provided in Iskandar Malaysia Johor Bahru City Centre Physical Planning Initiatives 2006 to 2025, Objective 10 stated; "Promoting public art that reflects the identity of a city and it is the voice of the local communities and helps to strengthen relationships between diverse groups." In this light, the paper will cover a detailed assessment of the character of Johor

Bahru City Centre; it's social, cultural and environmental aspects that play a significant role in establishing an adaptable urban environment for public art integration.

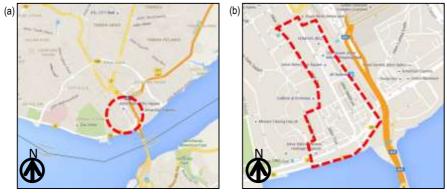


Figure 1: (a) Key Plan; (b) Location Plan of Study Area (Source: Google Maps, 2016)

#### 2. 0 Literature Review

Presently, several local authorities in Malaysia had started to organize public art programs that encourage public participation. It is a respectable effort to educate and generate awareness among the society on public art. For instance, Dewan Bandaraya Kuala Lumpur (DBKL) had launch artwork and sculpture competition for public participation in 2014, which aims to improve Kuala Lumpur urban design image and way-finding. Additionally, Penang State Tourism and Development Office with the collaboration of Penang Global Tourism and appointed artist, Lithuanian-born artist, Ernest Zacharevic had produced a sequence of public art in Georgetown, Penang integrating a series of welded iron wall caricatures and mural painting (Figure 2).





Figure 2: (a) Expressive Artworks, mural by Ernest Zacharevic; (b) Efficient Artworks, welded iron signage in Georgetown, Penang.

(Source: Google Images, 2016)

# 2.1 Imageability Study

According to Lynch (1960), imageability is the quality of a physical object that delivers an observer an intense and vivid image while legibility is the easiest way for people to recognize the layout of a place. Besides that, a highly imaginable city would be well-formed, holds very distinct parts and would be immediately recognizable to the people (Erismis & Gezerman, 2014). Both of them urged that a city grows not only its brand but also its image and desirability of the outer world. The Lynch's theory exerts massive influence, not only in urban design but also more broadly in social science and art history (Raynsford, 2011). There are five elements of legibility recognized; (i) Landmarks, (ii) Nodes, (iii) Districts, (iv) Paths and (v) Edges.

# 2.2 Serial Vision Study

Serial vision happens when a person walks through a town at a uniform speed, and a series of images will reveal (Cullen, 1961). The notion of serial vision is a sequence of static viewpoint frames that positioned in accord with the plan (Blizard & Fish, 2013). This exercise concerns on the optic, which leads a human movement in a city. Besides, the place and its contents can be renowned during the Serial Vision study. The place can be recognized throughout response to the human's position in the environment while contents can be determined through examination of the fabrics of town such as colour, texture, scale, style, character, personality and distinctiveness (Wessel et.al, 2008).

# 3.0 Methodology

The fieldwork observation to identify the urban morphology of Johor Bahru is conducted within the boundary of Johor Bahru City Centre covering an area of 78.4 acres. It encompassed (i) land uses and activities, (ii) solids, voids, building form and massing, (iii) Imageability study and (iv) Serial Vision study. The rationale of site observation is to determine the existing urban fabric of the study area especially the spirit of the place (genus loci). Observation study was conducted from May 2015 to June 2015 by one observer (the writer). The observation was unanimously held during weekdays and weekend, days (8am to 10 am and 4pm to 6pm) and nights (8pm to 10pm) as to understand and clearly identify the trend and patterns of the human activities and interactions with their surroundings. Tools used during this exercise were a camera (to snap photos of site scenery) base plan of Johor Bahru City Centre (to trace the accurate location of character and urban fabric on the map) and stationeries.

The land use in Johor Bahru City Centre is occupied by commercial and trading activity (Figure 3a). There are commercial areas being dominated by specific races. Firstly, Chinese commercial area can be found along Jalan Tan Hiok Nee while Indian commercial area is dominant along Jalan Trus and Jalan Ungku Puan. Additionally, there is a river named Sungai Segget across the study area. Previously, it was the nerve of the city and currently under rehabilitation process for a better urban environment accordingly to the Johor Transformation project. This study area is strategically located, which is near Gerbang Selatan Bersepadu (Southern Integrated Gateway) that incorporating the city's main railway station, JB Sentral,

and customs, immigration, and quarantine complex (CIQ).

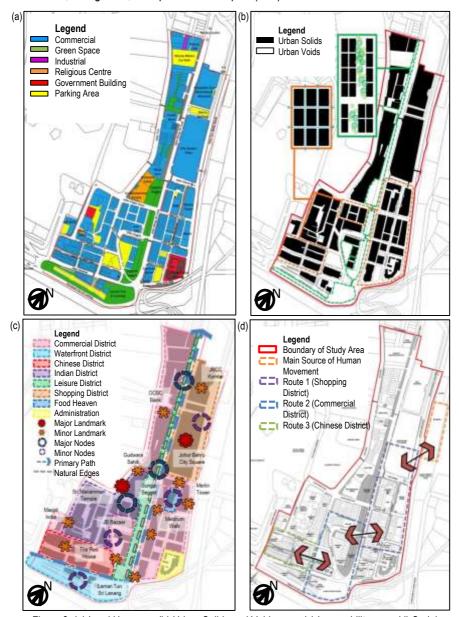


Figure 3: (a) Land Use map; (b) Urban Solids and Voids map; (c) Imageability map; (d) Serial Vision map of Johor Bahru City Centre.

The typological pattern of solids in Johor Bahru is dominated by grid pattern covering commercial shop houses area (Figure 3b). This grid pattern increases the permeability in Johor Bahru City Centre and easier people access. Urban voids such as Laman Tun Sri Lanang and Legaran Segget provide contrast to the solid urban environment. The different styles of buildings show the evolution of Johor Bahru over the years and become one of the uniqueness of Johor Bahru. There are also public monuments which stand-alone with distinctive features such as Sri Mariamman Temple, Gurdwara Sahib, and Masjid India.

Five elements of legibility were identified in the study area for the Imageability study. Photographs of each element in the study area were taken and sited on the map to produce an Imageability map of Johor Bahru City Centre (Figure 3c). Additionally, any cultural and heritage values of the element were acknowledged, and it will become a reference to commemorate the history and culture of Johor Bahru City Centre through public art design (Figure 4).





Figure 4: (a) Land Use map of Johor Bahru City Centre; (b) Urban Solids and Voids map of Johor Bahru City Centre.

(Source: Author's archive)

For the Serial Vision study, there are three routes selected from the research area. The routes were selected from the districts identified in Imageability Study; (i) Shopping District, (ii) Commercial District and (iii) Chinese District (Figure 3d). The origins of each route are the source of human movement towards the destination in the study area. The rationale for selecting these routes from three different districts is each of them have a potential to be linked to each other from the main source of human movement (located beside the site boundary), Gerbang Selatan Bersepadu and JB Sentral. As well, the distance of each route is within walkable distance; connecting pedestrian towards varied destinations within a reasonable amount of time and effort, and offering visual interest during the journeys (Southworth, 2005). It will also lead towards any identification of comparison of feeling between the routes chosen. A series of images is taken based on the visual cues that generate human movement from one spot to another spot. The serial images are taken on the eye level, and the visual cues are influenced by the observer's sight. Walking distance for each route is approximately 500 metre (walkable for pedestrian experience). The contents of a place along the routes were perceived as to determine the characteristic or the urban fabric of the town

## 4.0 Results and Discussions

All the data obtained from observation study are discussed (solely on the writer's judgement as observer) to define the advantages and disadvantages, followed by the synthesis of issues, concerns and opportunities accordingly to the indicators and being adapted into synthesis map to highlight precise location as the essential information for public art incorporation. Table 1 summarized all the main indicators data from the observation study that response to the objective (a) which to determine the characteristic and morphology of study area that significantly contributes to the integration of public art program.

Table 1: Summary of main indicators from observation study.

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Indicators	(i) Land uses and activities	(ii) Solids, voids, building form and massing	(iii) Imageability Study	(iv) Serial vision study
1. Advantages	Strongly characterized by the diverse races' commercial and trading     Lively by pedestrian activities	Manyvoids for fully utilize as public space     Installation of public art at the voids area     Grid pattern with high permeability     d. Various building form and massing accordingly to the construction era     e. Unique architectural styles	Brong landmark (i) Sri Mariamman Temple, (ii) Johor Bahru City Square     Heterogeneous of districts show diversity ethnics, races and urban activities     C. Some tarourable paths seen as prospect for public art placement     d. Edges as medium for public art.	<ul> <li>Every place has its own character that showcases the art and cultural values</li> </ul>
2. Disadvantages	a. Less utilized of public space     b. Ample parking lots	Noids becomes isolated space because of poor connectivity     Some building façade create monotonous impact	Less utilized of minor nodes; Laman Tun Sri Lanang     Few aspects of legibility in Johor Bahru City Centre are poor	Poorly maintained of some contents because inesponsible human behaviour     Lack of clear visual cues
3. Issues	Poor linkages or connectivity results poor utilized of certain public spaces	Physical character and linkages influence poor utifize of voids; (i) Laman Tun Sri Lanang     Public arton urban soids (building surface) needs owner authorization	Poor imageability that depicts the diversity and identity of Johor Bahru     Legibility elements are not effective enough	Mood or feeling of observer depends on, (i) visual cues and (ii) contents in a place
4. Concerns	Activities that make the city lively need to be maintained towards attracting more wisitors; (i) J.B Bazaar, (ii) Food Heaven area	a. Preservation of heritage building that present local distinctiveness; (i) Traditional Chinese Shop Houses, (ii) Sri Mariamman Temple	Preservation of existing landmarks that represent respective districts and act as route marker     Ernhancement of several paths to direct human movement.	Nariety of contents enhance the sense of place     Contents of a place need to be considered as a guide or inspiration to design public art.
5. Opportunities	Additional public spaces, (i) rehabilitation of concrete structure above Sungai Segget, (ii) transformation of parking area	<ul> <li>Multiplicity of building form and architectural style inspired public art design</li> <li>Implementation of suitable public art towards improving linkages among urban voids</li> </ul>	Roles of public art to enhance the image of the city     Integrating public art in major nodes, favourable paths and fragmentary edges	a. Reinforce visual experience for public b. Possibility to link the studied routes towards enhancing the sense of place and providing diverse of contents for public experience
6. Synthesis	Spaces that need to be connected     Spaces that need to be maintained     Spaces that need to be transformed.	<ul> <li>a. Voids with high potential to be designed</li> <li>b. Solids with high heritage and architectural value</li> </ul>	Nodes for public art placement     Landmarks that need to be embossed     C. Districts with strong character     d. Favourable path     e. Natural edges under	a. Feelings of every routes b. Potential public art trail
			rehabilitation	39

Overlay technique is used to determine the suitability of an area for public art placement. This technique is one of the processes to produce suitability map towards a liveable city (objective b). All the synthesis maps from each indicator were used in the overlay technique to generate the final composite map (Figure 5). The suitability plan identifies the potential areas for development, potential areas for public art placement and trail for public art from the Serial Vision study (Figure 6). Evidently, the final suitability plan attempt to summarize all of the existing site and contextual condition that could substantially influence the spatial organization and strategic location for public art in Johor Bahru City Centre (Table 2).

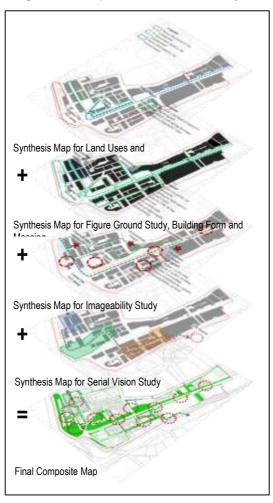


Figure 5: Overlaying technique to form Final Composite Map

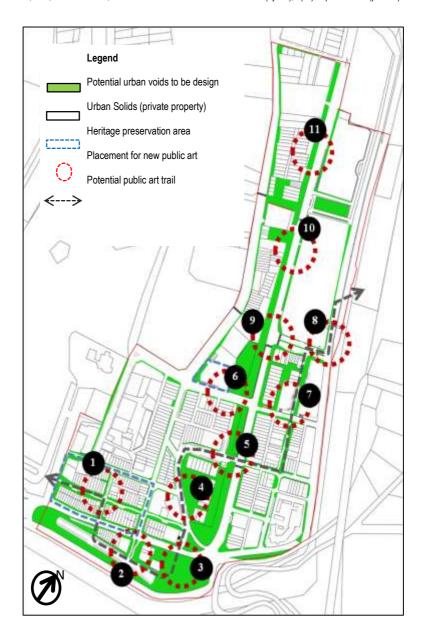


Figure 6: Final Suitability Plan for public art placement in Johor Bahru City Centre

Table 2: Summary of main indicators from observation study.

a. Potential urban voids to be design  b. Urban solids (private property  Indicators adjusted in the green areas on the final suitability plan represent urban voids (public space). It suits for public art voids to be design  b. Urban solids (private property  Implementation any form of public art on private property (building surface or private space) need approval from the owner. It involved participation from various stakeholders including organizer, selected artists, local authority and the owner of the property. This is important to ensure every execution of artworks is legal.  c. Heritage preservation area  Two areas were identified as heritage preservation area that has strong character and identical landmark. (i) Chinese District with The Red House as a landmark and (ii) Indian District with Sri Manamman Temple as a landmark. Both areas need to be preserved as they could provide local distinctiveness. Installation of public art in these areas should celebrate the cultural uniqueness and at the same time creating harmony in diversity.  d. Placement for new public art  Several appropriate public spaces were recognized to locate public art in the city centre and those artworks need to suit its surrounding. There are as follow:  1. Chinese District: Boost the sense of place and rejoice the Chinese culture and heritage that can serve public with additional knowledge.  2. Waterfront District: Placement's series of public art will direct more public to utilize Laman Tun Sri Lanang. The artwork can commemorate the transformation of Johor Bahru from a fishing village into a thriving city centre.  3. Waterfront District: Laman Tun Sri Lanang needs visual cues that can generate public to get there and make the area livelier.  4. Commercial District The ample parking lots transformed into nodes during the night with lots of trading activities called JB Bazzaar or Pasar Karat. Integration of public art at this area could serve more audiences and simultaneously improve the visual sequence for public experience.  5. Le
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<ol> <li>Commercial District and Food Heaven District. The existing contents of place need supervision by local authority to ensure its sustainability. Additional artworks should help to develop the atmosphere of food heaven area and more pedestrian friendly.</li> </ol>
<ol> <li>Shopping District: Artworks need to be interactive and vivid in terms of design as to generate human movement from the JB Sentral and facilitate Johor Bahru City Square as a landmark (Fig. 9a).</li> <li>However, the area is involving the ownership status and need approval from management team.</li> </ol>
<ol> <li>Intersection between Leisure District, Commercial District and Shopping District. This major node with high numbers of pedestrian needs remarkable public art that can symbolize Johor Bahru City Centre as southern galeway of Peninsular Malaysia (Fig. 9b).</li> </ol>
10. Shopping District: The main entrance of Johor Bahru City Square should be one of a best place to locate community artwork as it being utilized daily by the public.
11. Leisure District. Placement a series of public art in this area has potential for another public art trail once the rehabilitation process of Sungai Segget finished.
e. Potential public Placement a sequence of public art along the trail that cut across various districts will improve the
art trail visual cues for the public visual experience. The multiplicity of artworks can generate excitement as a
pedestrian whilst enhancing the legibility of Johor Bahru City Centre.





Figure 7: Potential area for public art placement, (a) Johor Bahru City Centre; (b) Intersection between Leisure District, Commercial District and Shopping District (Source: Author's archive)

## 5.0 Conclusion

The findings from Observation study indicated public art seems to hold a good prospective in Johor Bahru City Centre based on the characteristic and morphology of contemporary urban environment. Placement of public art at the suitable location has a possibility to create a liveable city and enhance the image of the city itself. All the indicators identified during the exercise; (i) land uses and activities, (ii) solids, voids, building form and massing, (iii) Imageability study and (iv) Serial Vision study, have affirmative results that tend to integrate public art as design solutions. This scenario will lead to the deliberation of design guidelines for public art as it could provide comprehensible practice for all projects. Plenty of private spaces and building façades have potential as medium to incorporate public art.

Notwithstanding the fact that few legibility elements are poor and not effective enough to symbolize the identity of Johor Bahru City Centre, contrariwise there are sufficient areas that have the opportunity to improve the imageability. Public art placements at nodes and along favourable paths have potential to generate interaction between the public and the artworks. Rehabilitation of natural edges (Sungai Segget) that will be partially covered with concrete slab provides ample space for the public realm. Further study after the project finished is needed as it has a possibility for public art locality. The heterogeneous nature of districts has the advantage to propose assorted types of artworks. It will show the interesting and colourful diversity of various ethnicity, races, and urban activities, contained within a city demarcation according to the era. Consequently, the sense of place could be enhanced and simultaneously provide multidimensional visual experience for the public.

Regarding visual sequence, some of the routes studied needs improvement and had a probability becoming a public art trail which links those three routes that cut across a variety of districts. Implementation of suitable artwork on the particular spot could enhance the visual cues and feel, and consequently, divert more public to experience the city as a pedestrian. Thus, a proper guideline for public art is needed as it could succour the planning, installation, and maintenance of the artworks in a city centre.

Through this, the suitable placement of artworks by utilization of urban design knowledge (production of suitability plan using overlaying technique) particularly on the efforts of

assessing the adaptable environment could be addressed to improve the imageability and the city growth. The applied perceptive on the public art contribution and urban morphology could provide comprehensive information to the multi-disciplinary professionals primarily to determine appropriate artwork to be integrated into the urban area towards a better environment in a creative manner. Ultimately, participation from all stakeholders is essential to ensure the integration of public art benefits the city and the community for the present and future generations. Future research on public art should investigate the characteristic and morphology of other cities in Malaysia towards identifying any contrast of existing urban spaces; it's social, cultural and environmental aspects.

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