"Batang' as a Domestic Space – The Manifestation of Sustainability in the Riverside Settlement Culture in Banjarmasin

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Abstract: Riverside settlement is the start of the development of river cities in Indonesia. At this time the cities’ growth has shifted from river-based to land-based. This condition raises the question of whether riverside settlements still have connectedness to the river for daily activities as the manifestation of a riverside culture. This research used a qualitative method with case studies on riverside settlements in Banjarmasin, such as Panglima Batur and Kampung Kenanga settlements. The focus of the observations was on the daily activities carried out by residents on some elements of the settlements, namely batang and its connection with the dwellings. Based on this research, riverside functioned not only as a "looked-on space" but also a "used space"; there was an active relationship between the river, settlement, and dwellers that materialized from domestic activities. Daily activities conducted by the inhabitants were the most specific forms of culture that could be seen in the built environment. In this case, the riverside culture was visible through the existence of batang and its use. Through this batang, the sustainability of the riverside culture in riverside settlements can be maintained.

1 INTRODUCTION

The city of Banjarmasin is known as the “City of Thousand Rivers”; it is flowed by many rivers, large and small. This natural condition of being surrounded by many rivers created a culture of living by the riverside. The riverside culture is a form of daily life of people who depend on the river for their way of life and behavior (Nurfansyah, 2006). According to Saleh (1984), this is triggered by the existence of the river as a main transportation route, so the population is concentrated along the river. It can be seen from the existence of settlements in the form of houses on stilts along the river or in the form of lanting houses that float on the river.

Different cultures will produce different dwellings (Lawrence, 1983, Lang, 1987). Residential place is the social-cultural expression implied through its domestic activities. Activity is the reflection of people's desires, attitudes, and knowledge of the world as a place of residence (Lang, 1987). Activities connect them (occupants) with the environment to process and change the nature in settling in an environment as a cultural embodiment based on an understanding of what is known, thought, and viewed by individuals about the world and the values that are formed and developed in the community (Sangalang and Adji, 2014). Activities can be seen from the daily behavior of residents interacting with their environment. Behavior is one of the factors that influence the relationship between residents and the environment in which they live. In addition, there are also influences from culture, environmental conditions, and outside influences (Hirsan, 2011).

In order to achieve sustainable settlements, one aspect that needs to be considered is culture. Culture is an important part of human-centered development, so culture is used as an aspect of the realization of sustainable development (referring to the World Commission on Culture and Development/WCCD, 1996). The most specific cultural breakdown is an activity that can be studied through the built environment (Rapoport, 2005). The values held by a society and the material objects it uses are cultural
elements that embody its way of life (Knox and Pinch, 2010). A culture that is realized through the way of life of everyday residents as a community can support the sustainability of settlements. This is especially the case for the culture that can show the relationship between residents and their environment based on specific environmental conditions such as the state of being on the banks of rivers.

The existence of a river will affect the use of domestic space as a place for daily activities. One of the elements of riverside settlements is *batang*. A *batang* is a vernacular building built by a community to accommodate daily activities directly related to the river. A *batang* is a material object in settlements as a cultural element of riverside. The existence of *batang* in riverside settlements is currently decreasing because it is considered by some to provide a less attractive view of the riverside. Therefore, through the study in this article, it is hoped that it can contribute to the importance of *batang* as a domestic space, which is a cultural element in settlements that can manifest the cultural sustainability of riverside settlements.

Presently, the growth of Banjarmasin city has shifted from river-based to land-based. The riverside is more geared towards the development of a more public riverfront. This condition raises the question of whether riverside settlements still have connectedness to the river for daily activities as the embodiment of a river culture.

2 LITERATURE REVIEW

2.1 The Culture of Living

Culture concerning various ways of human life is reflected in the patterns of action and behavior (Poerwanto, 2008, Daeng, 2008). Culture can be seen in three forms (Koentjaraningrat, 1985). First, it can be seen in the form of complex ideas, values, norms, rules, and so on. Second, it can be seen in the form of complex patterned activities of human beings in a society. Third, culture can also be seen in the form of objects of human works; through this form, culture can be studied architecturally as the result of human relationships with the environment in a built environment, including the use of space in a settlement. In the use of domestic space, a community’s values, the activities undertaken by residents, and the buildings, spaces, and elements in it as objects of human creation are observable.

Humans’ activities reflect the desires, attitudes, and knowledge of their world as their place of living, so how environment is addressed tends to be different to every person. This is influenced by their society and culture (Lang, 1987). Rapoport (2005) describes in detail the relationship between culture and activities that can be seen in a built environment. He describes culture to be more concrete, so it can be understood in the built environment. Culture is defined as a way of life consisting of values, ideals, images, schemata, meanings, norms, standards, expectations, rules, lifestyles, and activity systems. All aspects of culture will be realized in the built environment in the form of space organization, time, meaning, and communication. Built environment is the embodiment of a system of activities. It is a cultural landscape. Built environment is composed of fixed elements, semi-fixed elements, and non-fixed elements. Through this explanation, the implementation of culture in a built environment becomes clearer and easier to study.

The processes of culture, environment, and psychology take place in an interconnected system. These three are related to mental activities (seeing, hearing, smelling, interpreting, believing, and behaving) and behavioral activities (what people do and how they act) towards their environment (Altman and Low, 1992). Culture is a process in which people create meanings to give themselves a sense of identity. Place is a manifestation of human culture (Cohen, 1994 in Ujang and Zakariya, 2015). Environmental variations can also reflect the cultural complexity that distinguishes one group from another. Ways of life, symbols, meanings and cognitions, and sustainability are accepted as specific norms to a particular group. In a pluralistic society, culture plays an important role in determining its identity that influences the character and identity of the places it inhabits (Ujang and Zakariya, 2015).

2.2 Domestic Space and Domestic Activities

The word domestic comes from the Latin word "domesticus", which means home and house or household. Domestic space is found in home, house, and yard for the relationships between human with their residence, both inside and outside the house in everyday contexts (Briganti and Mezei, 2012). The existence of domestic space can be understood from the existence of space elements in the form of furniture, tools, and appliances arrangement as the main marker (Schlyter, 1991, Hanson, 1998). Equipment in this space can show the functions for
everyday activities, for example, living room, dining room, sleeping room, study room, and kitchen (Osseland, 1999). Domestic activity indicates the relationships between human and their living space in everyday contexts (Monteiro, 1997; Collignon, 2010). Domestic space as a place of daily activities directly responds to human needs and wants. Every human being forms a domestic space in accordance with his/her will to get the best conditions for his-/herself.

Monteiro (1997) divides the activities in domestic space into three groups: 1) integrated activities, which are various activities that can be done in one space; 2) rooted activities, which are restricted and inflexible activities consisting of only one type of activity function that depends on specific equipment/furniture in the room, for example, cooking in the kitchen, bathing in the bathroom; and 3) loose activities, which are activities that are flexible—it can be done anywhere in the house and can be associated with other activities. Residents have the freedom to use the space to meet their activity requirements. One space can be used for various activities, and certain activities can take place in any space.

Domestic space as an area for domestic activity shows the relationship between humans and their environment. The existence of activities is determined by four components: the existence of the subject, the existence of activities, and the existence of places in association with time. There are various domestic activities that can be done indoors and outdoors. The type of domestic activity to be used in this study is based on the classification of activities undertaken by Monteiro (1997), Ahrentzen (1989), and Kisharini (2015) as shown in Table 1.

Table 1: Classification of Domestic Activities

<table>
<thead>
<tr>
<th>Household Chores</th>
<th>Extended Chores</th>
<th>Passive Leisure</th>
<th>Interactive Leisure</th>
</tr>
</thead>
<tbody>
<tr>
<td>b. Drying clothes</td>
<td>b. Working</td>
<td>b. Reading books</td>
<td>b. Receiving guests</td>
</tr>
<tr>
<td>c. Ironing</td>
<td>c. Playing with children</td>
<td>c. Listening to music/radio</td>
<td>c. Playing</td>
</tr>
<tr>
<td>d. Storing clothes</td>
<td></td>
<td>d. Relaxing</td>
<td>d. Playing a musical instrument</td>
</tr>
<tr>
<td>e. Cleaning/maintaining the house</td>
<td></td>
<td></td>
<td>e. Doing a hobby</td>
</tr>
<tr>
<td>f. Cooking preparation</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>g. Cooking</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>h. Washing dishes</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

3 RESEARCH METHODS

This research used a qualitative research method with a phenomenology approach, which looks at the research object in the natural context. Phenomenological research emphasizes, to a greater extent, people's experience at where they are. The focus of this research was the existence of residents who used batang as domestic space.

The study was conducted in the city of Banjarmasin in a settlement on the banks of Martapura River. The selected locations were Panglima Batur and Kampung Kenanga. Both villages were categorized as old villages.

The data required were in the form of primary data, which were data on batang types and placement in the settlement. Activities carried out in the batang, semi-fixed and non-fixed supporting elements, types of actors, time of activities, and occupants’ reasons for using batang. Data collection was carried out by in-depth interviews with batang users and field observations, which were conducted directly in the field where activities were carried out by batang users.

4 RESULTS AND DISCUSSION

4.1 Batang as a Vernacular Building on a Riverside Settlement

Vernacular architecture is also called architecture without architect. A vernacular building reflects the habit of community life; it is built due to the desire to adjust to natural conditions. The community has the autonomy in construction to fulfill its functions. The Riverside community makes the batang adjusted to the condition of the site where the building is located, which is on the banks of the river. Batang is an unroofed rectangular construction located on the bank of a river. Its dimensions vary from 1 m x 1 m to 3 m x 4 m. Based on the construction, there are two types of batang, namely
Batang lanting and batang panggung (platform). Batang lanting has a floating construction made of logs, bamboos, or plastic drums. Meanwhile, batang panggung has a pole construction made of galam wood or ironwood that is plugged into the ground. The batang’s floor is made of sparsely-arranged ironwood. The structure and materials of a batang show that it is a vernacular construction.

Figure 1. Batang lanting with a floating bamboo construction (1) and batang panggung with an ironwood construction (2)

4.2 Placement of Batang at Dwelling

Subiyakto (2005) states that the characteristics of riverside settlements in Banjarmasin are as follows: “The house is built as a house on stilts rights on the riverbank or some of the posts are in the water. Sometimes it can be a lanting house floating on the water on the riverbank. In the same case they also built a places of worship such as mosque or langgar. Aside from that, there are also lanting or batang for bathing, washing and latrine. Lanting and batang function like docks, a place to unload and upload items from boats or ships. It is a place for people to make sale transactions with boats peddlers. It is also a place to tether boat.”

Historically, the above text indicates that ‘batang’ is located on the bank of a river, stands alone, and exists in a similar manner as other dwellings that are located by the river (lanting houses and houses on stilts). It serves as a bath, laundry, and latrine, as well as a dock for boat and passenger and a boat tether.

The laying of a batang in subsequent developments is not only done along the bank of a river as a stand-alone construction, but related to dwellings on the riverside. The laying of a batang can be seen in the following table 2.

Table 2. Placement of Batang at Dwelling

<table>
<thead>
<tr>
<th>No.</th>
<th>Placement of Batang</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td><img src="image1.png" alt="" /></td>
<td>A. The batang panggung is situated in front of a group of dwellings after a public titian (walkway). The dwellings on the riverside settlement are grouped based on marital relationships called bubuhan (family cluster). Each of these bubuhan will have a single communal batang. Historically, batang has existed since the first house in the bubuhan group was built (grandfather or great-grandfather) and has survived until now.</td>
</tr>
<tr>
<td>2</td>
<td><img src="image2.png" alt="" /></td>
<td>B. The batang panggung is situated in front of the dwelling directly connected to the terrace. This new batang is built to facilitate the activity of the occupants. The inhabitants feel that it takes a great distance to use the family batang (bubuhan). Except during low tide, residents will use family-owned batang.</td>
</tr>
</tbody>
</table>

The batang panggung is situated in front of the dwelling at the end of the private titian. It is private, but can be used by neighbors. The dimensions of the batang range from 1 m x 1 m to 1 m x 1.5 m. On the banks of the river there are dwellings.
1 | 2 | 3
---|---|---
3. | ![Diagram of batang panggung connected to titian] | The *batang panggung* is directly connected to the public *titian* (walkway). Usually, this happens in areas that have abrasion, so it does not require a long walkway to reach the water at low tide. It is private (owned by a house on the land), but it can be used by others. The dimensions of the *batang* range from 1 m x 1 m to 2 m x 3 m.

4. | ![Diagram of batang panggung connected to riverbank] | The *batang panggung* is directly connected to the riverbank behind a dwelling (A) and next to another dwelling (B). It is a private property, but the *batang* adjacent to the dwelling (B) can be accessed by neighbors in need. The dimensions of the *batang* range from 1 m x 1 m to 2 m x 3 m.

5. | ![Diagram of batang lanting connected to titian] | The *batang lanting* is directly related to the public *titian*. It exists only in Panglima Batur, with dimensions of 3 m x 4 m. It is used by some residents together even though they are not of the same family group (*bubuhan*). The group is based on RT limits.

6. | ![Diagram of terrace as batang] | The terrace of the *lanting* house is used as *batang* by residents and neighbors around. The porch is 1 m wide. It is used by neighbors during low tide as they cannot use the *batang panggung*, whereas *lanting* house will follow the tides of river water.

7. | ![Diagram of batang panggung connected to dock] | The *batang panggung* is directly connected to the dock. It is originally used to tether a boat, but it is also used by residents for other activities.

Source: field observations

### 4.3 *Batang* as Domestic Space

The original function of *batang* is as a place for bathing, washing, latrine, docking, and boat tethering. Bathing and washing are the most frequently performed domestic activities in the *batang*. It is rarely used as latrine because the residents already have toilets at their houses, although some of the houses do not have any and the owners must go to *batang*.

In subsequent developments, as an element of riverside settlements, *batang* can also be used by residents for a variety of domestic activities. This is presented in the following table.
Table 3. The use of space for domestic activity on the *batang*

<table>
<thead>
<tr>
<th>No.</th>
<th>Group of Activity</th>
<th>Type of Activity</th>
<th>Actors</th>
<th>Time</th>
<th>Photo</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Household Chores</td>
<td>Washing clothes</td>
<td>Women</td>
<td>05.00–10.00</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Young women</td>
<td>16.00–18.00</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Men</td>
<td>According to the needs</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Washing dishes</td>
<td>Women</td>
<td>08.00–10.00</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Young women</td>
<td>16.00–8.00</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Men</td>
<td>According to the needs</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Washing the</td>
<td>Women</td>
<td>08.00–10.00</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>ingredients</td>
<td>Young women</td>
<td>16.00–18.00</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>According to the needs</td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>Extended Chores</td>
<td>Shopping</td>
<td>Women</td>
<td>07.00–09.00</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Men</td>
<td></td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>Passive Leisure</td>
<td>Relaxing</td>
<td>Women</td>
<td>09.00–11.00</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Men</td>
<td>14.00–16.00</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Teens</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Children</td>
<td></td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>Interactive Leisure</td>
<td>Chatting</td>
<td>Women</td>
<td>05.00–11.00</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Men</td>
<td>16.00–18.00</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Teens</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Playing</td>
<td>Children</td>
<td>15.00–18.00</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Doing a hobby</td>
<td>Men</td>
<td>09.00–13.00</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>(fishing)</td>
<td>Young men</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Children</td>
<td></td>
<td></td>
</tr>
<tr>
<td>5</td>
<td>Private Needs</td>
<td>Bathing</td>
<td>Men</td>
<td>05.00–09.00</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Women</td>
<td>16.00–18.00</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Teens</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Children</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Source: field observations
In the Panglima Batur area, there are batang lanting that serve the public. The main thing that is done by the residents is the domestic activity. Occupants on land and riverside feel more comfortable doing domestic activities such as washing clothes and bathing in batang than at home (even though they have already been connected to a water supply network from PDAM). Often times, they also wash food ingredients in the batang and then rinse them with clean water at home. They revealed that doing activity on the batang gives them more space. In the batang they can use water more freely than they can at home. In addition, they can meet their neighbors, greet each other, and talk with each other there. Batang lanting and batang panggung are not only useful as domestic space, but also useful as a socializing space between neighbors while doing activities.

In the mid-morning and afternoon, the batang lanting and batang panggung are quiet from the service activity. At this time it is used by fathers for fishing and by mothers for relaxing while babysitting (bringing toddlers with them to see the river). Users of the batang lanting and batang panggung are not only residents who have a house on the riverbank, but also residents who have homes on the mainland. This indicates that the river has an appeal to the domestic activity of the inhabitants, not only for the water supply, but also for the cool scenery.

In the Kampung Kenanga area, the batang are positioned along the walkway (titian). Each batang is owned by a house on the opposite side of the titian parallel to the batang. This house is the main house, then several houses are developed to the left, right, front, and back of the main house. These houses are inhabited by children, grandchildren, and relatives (one family cluster/bubuhan), so one batang is used by one family cluster. Residents use the batang panggung for domestic activities based on family ownership. Usually, at high tide, one family cluster will use the batang together for bathing and washing, but other people (not the same bubuhan) may use this batang.

4.4 The Cultural Manifestation of the River on the Batang

Daily activities reflect the way of life as a cultural manifestation. Domestic activities carried out daily by occupants in riverside settlements embody the culture of riverside communities. This domestic activity is related to household activities carried out inside and outside of a dwelling. Batang is a fixed element contained inside and outside the dwelling. In this batang various domestic activities are carried out, including not only household core activities such as washing clothes, washing dishes, and cleaning food, but also other domestic activities like passive recreational activities such as leisure, active recreational activities (e.g., talking, playing, doing hobbies (fishing)) and private activities (e.g., bathing).

Domestic activities carried out on the riverside are not only those directly related to the river itself in the form of domestic service activities (bathing and washing), but also those related to the atmosphere of the riverbank. Activities can include sitting for relaxing while looking at the river, chatting, fishing, and playing. The existence of a river supports the residents to use riverside batang as their activity space. This indicates that the riverside is not just a "used space", but also a "looked-on space". There is an active relationship between the river, inhabitants, and activities. River functioned as a site with "domestic service activities" but also a "domestic activities" (e.g., washing clothes). Every house has this batang. In the present development, these batang are legally private property, but in perception...
of other occupants, they are public property. Owners
give freedom for anyone to use it. They are used by
not only the neighbors by the riverbanks, but also by
residents on land.

It is similar with personal batang located in front
of the house (side by side with the house or side by
side with private titian). It can be used by anyone
who needs it without the permission of the owner.
The private batang is changed to public property.
Residents do not give restrictions, so anyone can use
it. The value of "basamaan" (sharing) adhered to by
settlers is strong, so there is no conflict in the use
of domestic space together, especially in the domestic
space associated with the river.

5 CONCLUSIONS

Batang is a riverside settlement element that
supports the domestic activities of residents. Based
on the construction, batang are divided into two
types: batang lanting (floating construction) and
batang panggung (pole construction). Based on its
relation to shelter, batang panggung are divided into
4 (four) types, namely 1) batang located in front of
family cluster (bubuhan) adjacent to the public titian
(walkway), 2) batang located in front of the
dwelling at the end of the private titian or in front of
the terrace, 3) batang that are directly adjacent to the
public titian, and 4) batang that are directly related
to dwellings, situated in the back or side of the
dwelling. There is another type of batang that is
directly related to the dock. Batang lanting are
divided into 2 (two) types, namely 1) batang lanting
that is connected to the public titian and 2) terrace
lanting houses that serve as a batang.

The cultural manifestation through domestic
activities in the batang shows the following:
a. active connection between rivers, occupants, and
activity;
b. riverbank functions as a “used space” and a
“looked-on space”; and
c. the value of “basamaan” (togetherness) held by
residents of riverside settlements when
conducting domestic activities.

This research indicates that the existence of the
batang is indispensable in the sustainability of
riverside culture in riverside settlements.

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