

# Study of Open Space Utilization in Pekanbaru City, Riau Province

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Abstract: Public open space is a necessity for residents of Pekanbaru City and other big cities, with a variety of communities and residents of Pekanbaru City certainly need public open space that is suitable for their community needs, such as gathering, sports, recreation and so on. In addition to making the city neat, beautiful, beautiful, this also serves as a support for the city community to feel comfortable in their city, creating a happy, healthy, intelligent and active society. The purpose of study to know utilization of open space in pekanbaru city especially in MTQ area, Pekanbaru city park, urban forest and Plaza in the Great Mosque of An-Nur, The analysis technique used qualitative descriptive analysis. The result of questionnaire and interview is Open spaces in the city of Pekanbaru are used by visitors as a place to exercise, playground, recreation in distributing talents or hobbies, trading and there are also those who use it as a culinary or snacking place that traders provide around the location of public open spaces. Most of the public or visitors to public open space use public open space as a place to exercise. The condition of public open space is generally good, comfortable, and management is quite good. However, public open space facilities that still do not meet the needs of visitors, the condition of the facility also needs to be paid more attention, visitors prefer the location of public open spaces that are not far from where they live.

## 1 INTRODUCTION

Public open space is a necessity for residents of Pekanbaru City and other big cities, with a variety of communities and residents of Pekanbaru City certainly need public open space that is suitable for their community needs, such as gathering, sports, recreation and so on. In addition to making the city neat, beautiful, beautiful, this also serves as a support for the city community to feel comfortable in their city, creating a happy, healthy, intelligent and active society (Pekanbaru, ; Budihardjo and Sujarto, 1999; Budihardjo, 2011).

The public open space needed by the people of Pekanbaru City is certainly a public open space equipped with supporting facilities or infrastructure in accordance with the function of the public open space. Public open spaces in Pekanbaru City are spread in several Subdistricts in Pekanbaru City, while public open spaces in the urban scale in Pekanbaru City are full MTQ areas in Bukit Raya District, MTQ Park at Arifin Ahmad Road Crossing in Marpoyan Damai District, Polytechnic Playground Caltex Riau in Rumbai District, Bandar Lake Kayangan Lembah Sari in Rumbai Pesisir District,

Main Riau Stadium Area in Tampan Subdistrict, Urban Forest in Sail District, City Park, Plaza in the Great Mosque of An-Nur, CFD on Diponogoro street in Pekanbaru (Kuntjojo, 2009; Mulyandari, ; Woolley, 2003).

## 2 LITERATURE REVIEW

Open space can be interpreted as undeveloped land or an environmental area designated as parks, roads, and natural destinations such as agricultural areas. (Mulyandari, ; Schmitt, 2004; Agboola et al., 2017). Public open space in Permendagri Number 1 of 2007 concerning structuring green open spaces in urban areas, is spaces in a city or wider area, both in the form of area / area and in the form of elongated areas / lanes where the use is more open which is basically without buildings.

## 3 RESEARCH METHODS

The research approach used in this study is the inductive approach, starting from the desire of

researchers to give meaning to observational data in the form of empirical generation (initial categories, assumptions, then become a theory)(Kuntjojo, 2009; MacDonald et al., 2009; Ishii et al., 2010).

The purpose of this study utilization open space in Pekanbaru City. The scope of the area in this study is the administrative area of Pekanbaru City consisting of several open space in Pekanbaru, this are has been chosen based on most activity community.

- MTQ areas in Bukit Raya District,
- Pekanbaru City Park,
- Urban Forest,
- Plaza in the Great Mosque of An-Nur,

To find out the utilization of public open space in the city of Pekanbaru can be used qualitative descriptive analysis, in which this qualitative descriptive analysis will explain the theory descriptively about the utilization or function of public open space, this analysis is used to be able to see the direction of regional public open space, the activity tendency will be carried out to analyze the use of land around the public open space. It is also done by distributing questionnaires in public open spaces that are semi-open

The sampling technique in this study uses a selected sample (Non Probability sample), because the population studied is infinite (Population whose number and identity of members is unknown). The method of sampling is done using accidental sampling. The method of taking accidental sampling is taken on the basis of if only, without being planned in advance, also the desired number of samples is not based on considerations that can be justified, provided they meet the needs. The conclusions obtained are only crude and temporary. In research it can happen to obtain samples that are not planned in advance, but by chance, that is the unit or subject is available to researchers when data collection is done. The process of obtaining this kind of sample is called accidental sampling (Kuntjojo, 2009).

From the sampling technique researchers conducted questionnaires on weekdays and on holidays. On weekdays the time chosen is 2 days between Monday and Friday, and on holidays on Saturdays and Sundays. Special Car free Day is only done one day, namely on Sunday because this activity is only done once a week. So the number of samples obtained in each public open space can be seen in the following table :

Table 1: Respondent Public Open Space in Pekanbaru

No	Public Open Space	Kuesioner			interview
		Work day	Holiday	Result	
1	MTQ	10	20	30	12
2	Pekanbaru City Park	7	16	23	16
3	Urban Forest	8	10	18	9
4	Plaza in the Great Mosque of An-Nur,	9	16	25	17
<b>Result</b>		<b>34</b>	<b>62</b>	<b>96</b>	<b>54</b>

## 4 RESULTS AND DISCUSSION

### 4.1 Utilization Open Space in Pekanbaru

#### 4.1.1 MTQ Area

Pekanbaru's MTQ full area is one of the public open spaces in Pekanbaru City, this area is located on Sudirman street, the Full Zone of MTQ is located on Jendral Sudirman street which is the road of Pekanbaru City Protocol. To reach this location very easily, visitors can use private vehicles such as bicycles, motorbikes or cars. In addition, visitors can also use city transportation, the MTQ full area is passed by several city transportation such as Angkot, City Bus, and TransmetroPekanbaru.this area has quite extensive land, the total area of this area is around 15 hectares. The facilities are quite complete, such as seating, lighting, garden houses, trash bins and other supporting facilities. The Full Zone of MTQ has land as a place for citizens to exercise, create play, gather and so on. However, activities in the currently reduced MTQ area can be seen at this time visitors of this region are decreasing. The existence of land conversion in some areas, this area has quite extensive land, the total area of this area is around 15 hectares. The facilities are quite complete, such as seating, lighting, garden houses, trash bins and other supporting facilities. The Full Zone of MTQ has land as a place for citizens to exercise, create play, gather and so on. However, activities in the currently reduced MTQ area can be seen at this time visitors of this region are decreasing. The existence of land conversion in some areas. The MTQ area is one of the public open spaces in the city of Pekanbaru, with its strategic location, the area is crowded with residents of Pekanbaru City in the evening and at night, as seen from the answers of 30 public visitors to the open space questionnaire (60%) when visiting more often done in the afternoon and (40%) make visits at night. with a wide area, this MTQ area is often held art events, expo music concerts and other events, in the MTQ



Figure 1: MTQ Area

area there are various kinds of traditional houses in various regencies in Riau Province. In addition to art performances, Pekanbaru residents often use the MTQ area as a place of recreation (33%), socialize (23%) and do sports activities (27%) in this place such as playing football, and so on. At night the MTQ area was made into the city of Pekanbaru as a culinary tourist spot (17%), such as grilling corn, bananas and various kinds of food sold by traders in the MTQ area.

#### 4.1.2 Pekanbaru City Park

Pekanbaru City Park is located in a very strategic area that is in the city of Pekanbaru precisely on Diponegoro street in Pekanbaru Subdistrict, transportation modes that can be used towards this area visitors can use Transmetro Pekanbaru or personal vehicles. Pekanbaru city park has an area of 2.3 hectares. This city park is equipped with quite good facilities such as lounge benches, swimming pools, various children’s games and several types of plants and flowers that make this garden beautiful, besides these facilities in the city park also provides bicycle rental and selling various kinds of food and drinks.



Figure 2: Pekanbaru City Park

Pekanbaru City Park, located on Diponegoro street, is one of the public parks that can be utilized by Pekanbaru City residents, the city park serves

as a provider of oxygen or an area that provides healthy air amidst pollution in Pekanbaru City. Of the 23 questionnaires distributed in the City Park, visitors said visitors used the City Park as a place of recreation (43%), sports (13%), socializing, and gathering places for Pekanbaru City residents (26%). Visitors who often come to city parks (26%), rarely (52%), are very rare (22%). Visit times are often carried out in the morning (4%), during the day (26%), in the afternoon (70%).

#### 4.1.3 Urban Forest

Pekanbaru City Forest is located in Sail District, Sukamaju Village, Pekanbaru, precisely on Diponegoro street. Access to the city forest visitors can use private vehicles such as motorbikes or cars. Visitors can also use the Transmetro Pekanbaru public vehicle that passes Diponegoro street, after which visitors walk a little to the urban forest area. Urban forest is one of the lungs of the city of Pekanbaru, the city forest in the Sail District has a variety of plants, and has facilities that are quite good, but still not maintained in the assessment of the overall forest of Pekanbaru City can be categorized quite well.



Figure 3: Urban Forest

Urban forest is a land in the middle of the city which is left to be planted perennials or trees that grow in the middle of the city or on the outskirts of urban settlements. Urban forest located in Sail Subdistrict is very large or very important role for Pekanbaru City, this urban forest serves as a counterweight to human ecology in various ways such as air cleanliness, availability of ground water, sun protection, animal life in the city, and also as recreation place for the people of Pekanbaru City. In addition to these main functions, there were 18 respondents from the City Forest Zone said that visitors used urban forest as a place of recreation (28%), and often used as a photographer and model talent channel for photography activities (44%), sports (11%), socializing (17%). The time



Figure 4: Plaza in the Great Mosque of An-Nur

of visit is often done in the morning (6%), during the day (6%) in the afternoon (88%). The following is an illustration of the use of urban forests by the people of Pekanbaru City.

#### 4.1.4 Plaza in the Great Mosque of An-Nur

Pekanbaru Great An-nur Mosque is the largest place of worship in Pekanbaru City, the mosque was built in 1963 and completed in 1968 and carried out a total renovation in 2000, the Great Annur mosque has a plaza that is wide enough to be used as an open space public by the people of Pekanbaru City. In addition to private vehicles, transportation that can be used by visitors to go to the Great Mosque of Annur is City transportation or Transmetro Pekanbaru which passes through the great annur mosque.

The Great Mosque of Annur has an area of about 12.6 hectares, with the land area providing flexibility for the provision of open land for the public of Pekanbaru including the green park area and large parking area. The existing conditions of the Plaza located in the Great Mosque area of Annur is quite good, this area has a field to play, creativity, track to run, large parking, RTH is quite good. In addition, the Great Mosque of Annur is equipped with various educational facilities ranging from the Playgroup to High School and also has a library and meeting hall.

The Great Mosque of Annur Pekanbaru is the grandest Muslim house of worship in the city of Pekanbaru, with an area of about 12.6 hectares of this mosque area having educational facilities, ranging from preschool, kindergarten, elementary school, junior high school to high school level. place of worship. The Great Mosque of Annur has a very large plaza, from the respondents who got 25 people in the Mesjid Agung plaza, in the plaza this mosque residents of Pekanbaru use as a place to play, recreation (12%), exercise (76%), socialize (12%) and others. Visitors who often come to this place (40%) are rare (32%), and very rare (28%). The time of visit is often done in the morning (4%), during the day (4%), in the afternoon (88%).

To further find out the use of public open space in the city of Pekanbaru can be seen from the results of interviews with visitors to public open spaces. Based on the results of interviews, visitors can be seen in the following table 2.

## 5 CONCLUSION

MTQ full visitors rarely go to this location, the time of visit is more often done in the afternoon and evening, but more visitors visit in the afternoon. The full condition of MTQ is good, visitors are comfortable in this location, management of MTQ area is quite good, except that facilities in the MTQ area do not meet the needs of users of public open space, the cleanliness of this park is still lacking, MTQ is very strategic, access to easy locations reachable. Visitor advice on the Government so that facilities at the location of public open spaces are equipped according to the needs of visitors.

City Parks are often visited in the afternoon with the aim of exercising, gathering and recreation, visitors who come to this place live not far from the location of city parks, facilities in the city park are still incomplete and in poor condition, the cleanliness of city parks is not maintained. Access to the city park is easy, the city park is located in a very strategic location in the city center. Suggestions for visitors to the government and managers to complete and improve urban park facilities to be better and more comfortable to visit.

Respondents obtained said that they rarely came to the location of the urban forest, and visitors came in the afternoon with the aim of sports, recreation of talent / hobby distribution, visitors felt comfortable being in the location of urban forests, management of urban forests was quite good, but facilities at this location were still lacking complete, city forest cleanliness is not well maintained, access to city forests is easy. Most of the visitors come to use personal vehicles at a distance from the house not so far to the city forest. Suggestions for the Government to improve and equip facilities at the location of urban forests and maintain cleanliness in the location of city parks.

The Great Mosque of Annur Plaza is visited in the afternoon with the aim of sports, recreation, gathering and socializing, the condition of the Great Mosque of Annur plaza is good, and cleanliness in the plaza area is very well maintained. Access to easy locations, most visitors come to the location using personal vehicles. advice the end to the management and the government so that the facilities in the plaza of the

Table 2: Interview Visitors to Open Public Spaces in Pekanbaru City

No	Open Spaces	Result
1	<b>MTQ Area</b>	<ol style="list-style-type: none"> <li>1. Visitors are more likely to go to the location in the afternoon and evening.</li> <li>2. The purpose of visitors in the afternoon is to exercise around public open spaces, play, recreation, gather with communities such as photography lovers, skateboarding and those who intentionally come only to enjoy snacks sold by traders in the MTQ area.</li> <li>3. The purpose of visitors at night in general is to enjoy culinary sales by traders in MTQ areas such as roasted corn, roasted bananas, satay and etc. And on certain nights the MTQ area is a place for performing arts such as music concerts, expo events and other events.</li> <li>4. Riau Town Square Development Activities that are not clear about the development disturbs visitors' comfort.</li> <li>5. Public open space facilities are still lacking, such as seating, garden houses and other supporting facilities.</li> <li>6. MTQ Area Cleanliness needs to be improved.</li> <li>7. Strategic MTQ area in the city center and access to the area is quite easy, traversed by city transportation and trans metro pekanbaru.</li> <li>8. Many visitors come to use personal vehicles such as motorbikes and cars.</li> <li>9. The reason visitors choose this MTQ area is because it is close to where they live.</li> <li>10. Visitor suggestions to the government to complete and improve public open space facilities in the MTQ area, so that the MTQ area can be utilized optimally</li> </ol>
2	<b>Pekanbaru City Park</b>	<ol style="list-style-type: none"> <li>1. City parks are often visited in the afternoon and evening.</li> <li>2. The purpose of visitors to this place is to play, recreation, relax and gather.</li> <li>3. Visitors feel comfortable in the city park.</li> <li>4. City park facilities are still incomplete and in poor condition.</li> <li>5. Cleanliness in city parks is still lacking</li> <li>6. Access to the location is very easy and the location is very strategically located in the city center.</li> <li>7. Visitors who come to the location use personal vehicles</li> <li>8. Many visitors who come to this location because the city park is a comfortable place for recreation and close to where to live.</li> <li>9. Hope for the government to complete facilities and further improve the condition of the facilities and cleanliness of city park</li> </ol>
3	<b>Urban forest</b>	<ol style="list-style-type: none"> <li>1. Visitors visit the urban forest more often during the day and evening.</li> <li>2. The visitor's destination comes to the forest city for recreation, enjoying the fresh air of the city forest, gathering with friends and those who come to take pictures.</li> <li>3. The city forest is very comfortable with fresh air, but the cleanliness in the city forest is still lacking so that it disturbs the comfort of visitors.</li> <li>4. Facilities are still lacking with unfavorable conditions.</li> <li>5. Visitors come using motorbikes and cars.</li> <li>6. Many visitors come to the city forest because it is not far from where they live.</li> <li>7. Hope for the government to be installed or repaired by existing facilities such as seats, trash bins and roads in the urban forest to make it more comfortable.</li> </ol>
4	<b>Plaza in the Great Mosque of Annur</b>	<ol style="list-style-type: none"> <li>1. When visitors come to the plaza of the Great Mosque of Annur in the afternoon.</li> <li>2. The purpose of visitors in general is to exercise and play.</li> <li>3. The Great Mosque of Annur Mosque is very comfortable</li> <li>4. Cleanliness is very awake.</li> <li>5. Facilities at this plaza are still not as comfortable as seating.</li> <li>6. Access to the Great Mosque of Annur Plaza is very easy.</li> <li>7. Visitors come to the location using personal vehicles.</li> <li>8. Visitors come to the location because this location is not far from where visitors live.</li> <li>9. Suggestions to the government are to complete the facilities and add greenery to the location of the park to make it more comfortable.</li> </ol>

Great Mosque of Annur are complete.

Overall, the condition of public open space in Pekanbaru City is good but that needs to be considered again, namely the completeness and maintenance of facilities in public open spaces. In spatial planning, open space in the city of Pekanbaru is still very lacking to meet the needs of the city of Pekanbaru.

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