

Influence of Exterior Space to Linkage and Tourist Movement Pattern in Losari Coastal Area

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ABSTRACT : Makassar City has a strategic location because located at the crossroads of good traffic from north to south and from west to east, from these advantages so Makassar City eligible to be a tourism destination. One of the hallmarks quality tourism destination is Losari Coastal Area, which is a tourist area that became an icon of the city of Makassar and has many tourist attractions i.e. Reclamation Losari Beach, Fort Rotterdam, Somba Opu Shopping Centre and Culinary Tourism Area. However, tourist movement patterns who concentrated only in Reclamation Losari Beach needs for development of linkage at tourist attractions based on tourist movement patterns. Research method used is descriptive qualitative method with cognitive mapping technique to identify of tourist movement patterns characteristic in visiting tourist attractions at Losari Coastal Area and influence of exterior space to linkage among tourist attractions. Results from this research is determine influence of exterior space to connectivity linkage and tourist movement patterns among tourist attractions and find local criteria of exterior space which can be applied in Losari Coastal Area.

Keywords - Exterior Space, Linkage, Losari Beach, Tourist Movement Patterns, Tourist Attractions

I. INTRODUCTION

Losari coastal tourism area has many tourist attractions i.e Reclamation Losari Beach, Fort Rotterdam, Somba Opu Shopping Centre, Makassar Culinary Area and PKL Centre that serve a variety of tourist attractions, however that is known by public and became an icon of Makassar is Reclamation Losari Beach, which is an open public open space. therefore the movement patterns of tourist only concentrated on tourist attractions interested by visitors.

One of the problems lack of visitor to visiting tourist attractions in Losari Coastal Area is influence of exterior space that weaken the quality of linkage. This causes is lacking of motivation from tourist to travel in Losari Coastal Area, so that potential of every tourist attractions not explored optimally.

Purpose of this research is to show tourist movement patterns in Losari Coastal Area and determine influence of exterior space to connectivity linkage and tourist movement patterns among tourist attractions, so it known about how local criteria of exterior space that can provide connectivity and facilitate the tourist movement pattern among tourist attraction in Losari Coastal Area.

Location of this research is coastal area which is administration of this region located in Ujung Pandang district at west of Makassar City, South Sulawesi in Indonesia.

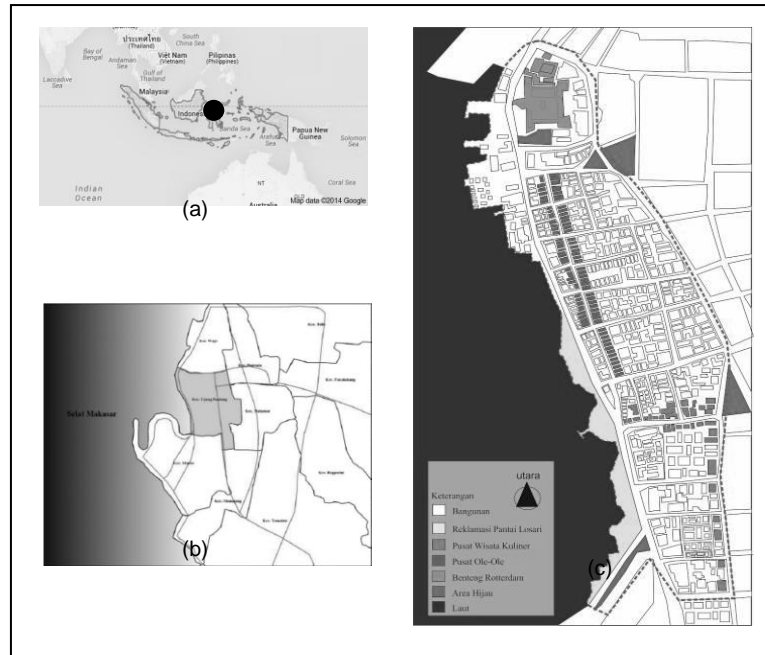


Fig 1: Location of Losari Coastal Area in the map of Indonesia and Makassar City

II. METHODOLOGY

The research method used in this study are included in descriptive research method (descriptive research). Descriptive research is a research which aims to create a description of a social phenomenon/natural with a systematic, factual, and accurate [1] [2].

Analysis techniques used is cognitive mapping or cognitive spatial analysis techniques defined as a form of urban design analysis [7]. This analysis method is divided into three steps, that is.

1. The first step is observation in the field to find out tourist movement patterns in Losari Coastal Area.
2. Correlate this observations with perception of tourist to support the observations by researchers.
3. Analysis of movement patterns among tourist attractions with overlay mapping to determine of tourist tendency on travelling and factors which is influence of exterior space to tourist movement patterns and linkage.

2.1 Movement Pattern Characteristics Analysis

The categories of movement patterns of tourists with a simple sketch proposed Lau and McKercher (2006) in the journal Understanding Tourist Movement Pattern In a Destination: A GIS Approach [3] that is.

Table 1
The Movement Patterns with Simple Sketch

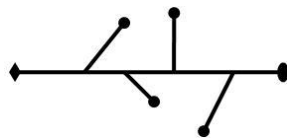
| Movement Patterns | Description |
|-----------------------------------|--|
| I. Single Pattern Single Point | There is no movement in the process of a visit a destination and return to their homes by same route |
| | |

II. Multiple Pattern Base Site



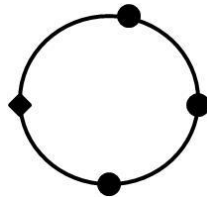
Tourist movement patterns starting from the place of origin to the major destinations and proceed to secondary destination, secondary destinations in the pattern of this movement can be more than one destination.

Stop Over



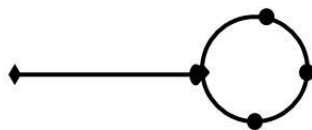
Movement patterns of tourists with focus towards major destinations where the journey to visit some interesting secondary destinations and visited by tourists.

Chaining Loop



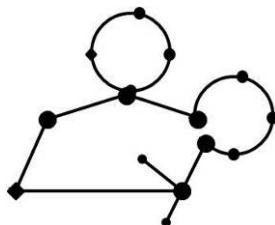
Tourist movement patterns such as circles without any repetition of these tourists destinations. Tourist travel to visit several destinations according to the tourist destination.

III. Complex Pattern Destination Region Loop



Tourist movement that began with a route around other destinations. After completing the tour around (circular pattern), they return home by the shortest route between the main objective and the place of origin set out. It is combination of single point and chaining pattern loop.

Complex Neighbourhood



Is a combination of two or more patterns that have been mentioned above.

2.2 Analysis of Exterior Space

To determine influence of exterior space to linkage and tourist movement patterns used single directional view technique with evaluation techniques to find out condition exterior space which is weekend quality of linkage in Losari Coastal Area. As for the aspects of exterior space that will be reviewed is circulation, parking, and street furniture with general criteria as follows.

Table 2
General Criteria of Exterior Space Aspect

| Exterior Space Aspects | Criteria |
|----------------------------|---|
| I. Circulation and Parking | <ul style="list-style-type: none"> • Circulation shall ensure the safety and comfort for pedestrians and vehicles areas [8] • Circulation shall in seperating pedestrian and vehicles areas [5] • Circulation should provide freedom of space for tourists [5] • Parking system should pay attention to the comfort and safety of pedestrians [4] • Parking system should facilitate the achievement of space activities [4] |
| II. Street Furniture | <ul style="list-style-type: none"> • Street furniture supposed to be attractive in terms of arrangement and shape, and lasting from all climates [5] |

III. RESULTS AND DISCUSSION

3.1 Existing Condition of Exterior Space

In integrating every tourist attraction in Losari Coastal Area be required a linkage to support the district to be an urban tourism [6]. A linkage system is characteristic that are very important from exterior space. This is an action which combine all activities and will result is a physical form an area.

To determine existing condition of exterior space that connects linkage among tourist attractions in Losari Coastal Area are divided into four segments i.e first segment is Penghibur Street, second segment is Lamadukelleng Street, third segment is Somba Opu Street, and fourth segment is Ujung Pandang Street with aspects will be reviewed are circulation, parking and street furniture, that is

Table 3.
Existing Condition of Exterior Space Each Tourist Attractions in Losari Coastal Area

| Analysis Of Existing Condition | Picture Of Each Segment |
|--|-------------------------|
| <p>1st Segment Circulation and Parking</p> <ul style="list-style-type: none"> • Circulation vehicles areas is one way and congested enough in the afternoon until evening. • There is a constriction of circulation vehicle in mid Penghibur street. • Along pedestrian way on the afternoon unti evening was converted by vendors to selling and parking of vehicles • Pedestrian way not yet to serve facilities to PDA. <p>Street Furniture</p> <ul style="list-style-type: none"> • Lack of signages as information for tourists about tourist attractions and directional markers. | |

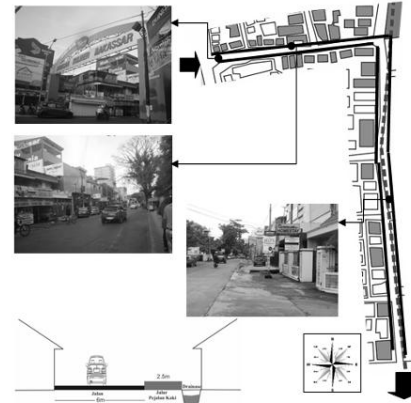
2nd Segment

Circulation and Parking:

- Circulation vehicles motorize is one way and congested enough in the afternoon until evening.
- Pedestrian way in this segment not fully exist only at a certainly point and there is a form of concrete drainage cover.
- Pedestrian way at some poin also converted for vendors to selling.

Street Furniture

- Street furniture in this segmen is nothing so that tourist doesn't facilitate to walking.



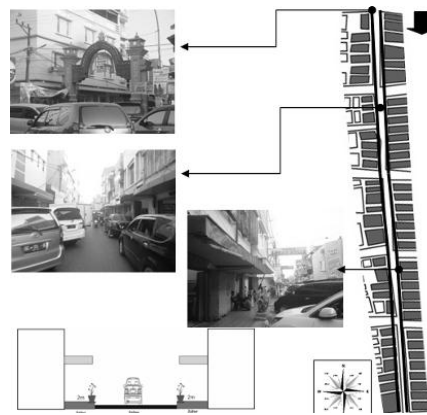
3rd Segment

Circulation and Parking:

- Circulation vehicle is one way and congested enough in the afternoon until evening.
- There is no parking space which provided a means of trade and services along this corridor so that vehicle on street parking which causes congestion.

Street furniture:

- Size of different advertisement billboards covered with one another and cover a linkage corridor.



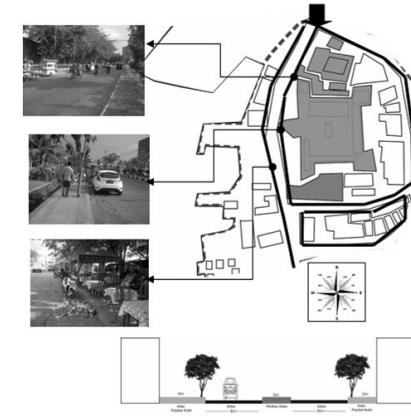
4th Segment

Circulation and Parking:

- 2 way vehicle circulation and congested enough in the afternoon until evening.
- Along pedestrian way on the afternoon until evening converted for vendors to selling and parking of vehicles
- There is no parking space provided by vendors along these corridors so that vehicle on street parking and causes congested.

Street Furniture:

Lack of signage and street furniture that increase district's image as a historical district to attract tourists to visit.



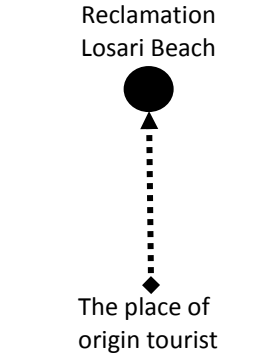

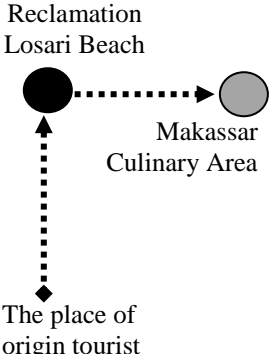
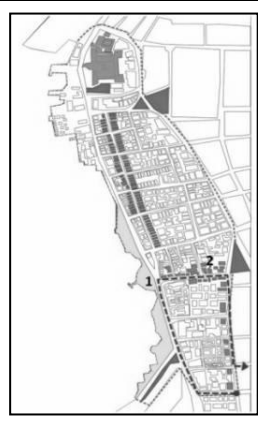
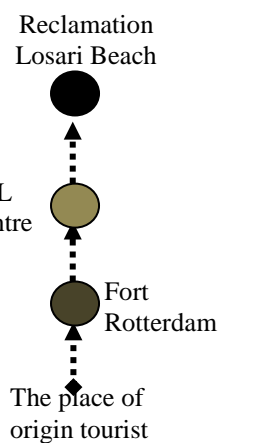

Based on the analysis of existing condition of exterior space from three aspects i.e. circulation, parking, and street furniture at each segment of tourist attraction in Losari Coastal Area can be identify that lack of connectivity linkage between tourist attractions based on a few things:

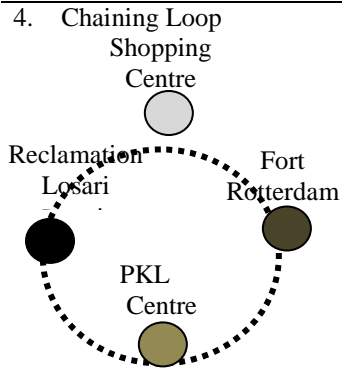
1. Circulation patterns of people and vehicle are not yet it easier for tourists to travelling among tourist attraction where the points are still jammed in some tourist attraction
2. Parking on street that dominate at each segmen and can hinder tourists to travelling.
3. Comfort and safety of tourists at pedestrian way still overlooked with lack of facilities provided and converted of pedestrian way by vendors and parking.
4. Lack of street furniture and signage in several segments that do not facilitate tourists in tourism activities

3.2 The Tourist Movement Patterns In Losari Coastal Area

Types of movement patterns proposed by Gigi Lau and Bob McKercher are divided into six types of movement patterns (see table 1) i.e. single point, base site, stopover, chaining loops, destination region loop, and complex neighbourhood. Referring to the theory, tourists movement patterns determined into 3 types i.e. single pattern, multiple patterns and complex patterns.

Table 4.
Tourists Movement Patterns among Tourist Attraction in Losari Coastal Area

| Movement Patterns | | Description |
|---|---|--|
| <p>1. Single Point</p> <p>Reclamation Losari Beach</p>  <p>The place of origin tourist</p> |  | <p>The movement patterns of single point that leads only one destination point without visiting another destination point and back to the place of origin is a tourist movement patterns who only visit destination Reclamation Losari Beach and tourists who only visit Fort Rotterdam.</p> |
| <p>2. Base Site</p> <p>Reclamation Losari Beach</p>  <p>Makassar Culinary Area</p> <p>The place of origin tourist</p> |  | <p>At movement patterns of base site, tourists start the trip from the place of origin and go to the main purpose, and followed a visit to secondary purpose in a certain area i.e tourists movement patterns destinations from the place of origin and visited Reclamation Losari Beach to Fort Rotterdam and tourists who visited Reclamation Losari Beach to Makassar Culinary Area, where Reclamation Losari Beach as the main attraction.</p> |
| <p>3. Stopover</p> <p>Reclamation Losari Beach</p>  <p>PKL Centre</p> <p>Fort Rotterdam</p> <p>The place of origin tourist</p> |  | <p>At stopover movement patterns, movement towards the main destination point, where visiting another destination point (secondary) in the process of movement i.e. tourists movement patterns with two or more attraction destination from Fort Rotterdam-PKL Centre – Reclamation Losari Beach, where Fort Rotterdam and PKL Centre as secondary destinations and Reclamation Losari Beach as the main destination.</p> |



On the movement patterns of Chaining loop with type of around like a ring that connects two or more destination point and there is no repetition route i.e. tourist movement patterns with four tourist destinations starting from Reclamation Losari beach – PKL Centre – Fort Rotterdam – Shopping Centre and after that direct tourists back to its original place

According to **Table 4** above, is known that tourists movement patterns only two kinds are single pattern and multiple pattern. In the movement patterns of single point, dominant tourists destination to visited Reclamation Losari Beach and the next is Fort Rotterdam. In the movement patterns of base site with two tourists destination is dominated movement patterns from Reclamation Losari Beach to Fort Rotterdam and from Reclamation Losari Beach to Makassar Culinary area, which is Reclamation Losari Beach as the main destination. For a movement patterns of stopover with two or more dominated by tourist destination of movement patterns from Fort Rotterdam – PKL Centre – Reclamation Losari Beach – PKL Centre – Reclamation Losari Beach, and for the movement patterns of chaining loop with four tourist destinations dominated by movement patterns from Reclamation Losari Beach – PKL Centre – Fort Rotterdam – Shopping Centre, where tourists directly back to its original place.

IV. CONCLUSION

Influence of exterior space to linkage and tourist movement pattern because the linkage is not optimal in connecting every tourist attraction so tourists dominant movement patterns only visited one tourist destination. Lack of motivation tourists to travel due to circulation is not yet clear, pedestrian way doesn't continuous, parking on street that hamper travel, and there is no clear route to connect each tourist attraction. As for the local criteria exterior space that can strengthen the quality of linkage and facilitate the movement of tourists, that is.

Table 5.
Local Criteria of Exterior Space Aspect In Losari Coastal Area

| Exterior Space Aspects | Criteria |
|----------------------------|---|
| 1. Circulation and Parking | <ul style="list-style-type: none"> • Circulation that integrates every tourist attractions must support and provide a good path and interconnected, and can be accessed by all people of all ages and needs of tourists • Parking on street should be avoided, especially on the crowded corridors so that the circulation of vehicles and people are not hampered in travel. |
| 2. Street Furniture | <ul style="list-style-type: none"> • Keep the availability of street furniture in each corridor in Losari Coastal Area to facilitate tourists to travel that promotes a safety and convenience of tourists] |

REFERENCES

This paper is part of a post-graduate thesis ITS (Sepuluh Nopember Institute Of Technology) in Departement of Architecture. Surabaya. East Java. Indonesia

[1] Darjosanjoto, Endang T.S “Penelitian Arsitektur Di Bidang Perumahan dan Pemukiman”. Itspress. Surabaya. 2012

[2] Darjosanjoto, Endang T.S. “The Role of Riferbank Area as Community Space in Surabaya City, Case Study : Kampung Jambangan and Kampung Keputran”, Great Asian Street Symposium. National University of Singapre. 2014

[3] Gigi, Lau. McKercher, Bob. “Understanding Tourist Movement Patterns in A Destination: A Gis Approach”, Hongkong.

[4] Hakim, Rustam. Utomo, Hardi. “Arsitektur Lanskap” Bumi Aksara. Jakarta. 2008

[5] Shirvani, Hamid. “The Urban Design Process”. Van Nostrand Reinhold. New York. 1985

[6] Trancik, Roger. “Finding Lost Spaces. Theories urban Design”. Van Nostrand Reinhold Company. New York. 1986

[7] Urban Design Toolkit, published by Ministry for the Environment, Wellington. New Zealand. 2006

[8] Widi-Prabawasari, Veronika. Suparman, Agus. Seri Diktat Kuliah : Tata Ruang Luar 01. Gunadarma. Jakarta. 2000