







Assess the accessibility to Public Spaces using Public Transport

Case of Ahmedabad

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FLOW OF PRESENTATION

- Need of the Study
- Introduction
- Methodology
- Literature Review
- City Profile
- Site Selection
- Assessing Accessibility
- Key Findings





NEED OF THE STUDY

- Lack of accessibility and poor quality pedestrian infrastructure has decreased accessibility to transit network and pedestrian accessibility which has been a key concern in planning.
- Cyclists have to fight for the right of way with fast moving motorized modes of transport, many a times risking their lives.
- The Public Transport (PT) users face long waiting periods, uncertainty in travel time and difficult travel conditions.
- While planning for public transport & road network, accessibility has to be kept in mind to get the maximum benefits to the user.
- It should encourage the people of different income groups to use the system and the accessibility to different modes gets better.



INTRODUCTION

"What defines the character of a city is its public space, not its private space."

-Dr. Joan Clos, Former Executive Director, UN Habitat

Aim

The aim of the study is to assess how the accessibility of selected public spaces is affected by the availability of transport options in the city.

Objective

The main objective is to understand whether great public spaces have great public transport.

- 1. To understand the concept of accessibility.
- 2. To recognize the qualities of a successful public space which reflect upon the accessibility.
- 3. To examine the impacts of public transport on public spaces in Ahmedabad through the lens of accessibility.





METHODOLOGY

Stage 1 Stage 3 Stage 5 City Profile Define the problem Field surveys and data collection Stage 2 Stage 4 Stage 6 Literature Review Selecion of Site **Key Findings** Introduction to the city i.e. Ahmedabad and a short 06 01 Understanding the issue and defining the problem overview of transport options. Aim and objective of the study is set along Identification of city level public spaces in 02 07 with research framework. Ahmedabad. Understanding the concept of accessibility and Selection of public spaces to be reviewed in detail 03 08 public spaces through secondary data. for analysis. Study the access and linkages of successful public Transit walks, OD data collection, People 04 09 spaces from across the world. perception survey. Study and selection of accessibility analysis tools 05 10 Key findings and conclusion. and framework.

LITERATURE REVIEW

ACCESSIBILITY

"Accessibility refers to ease of reaching goods, services, activities and destinations, which together are called opportunities. "

Factors affecting accessibility

Accessibility

Transportation Demand and Activity

Transportation **Options**

UserInformation

Integration

Affordability

Land Use **Factors**

Transport Network Connectivity

and guidelines of Great Public Space

Prioritization

Source: Todd Litman(2016), VTPI

PUBLIC SPACES

"Public spaces refer to a spot or an area reserved for the formal or informal gatherings. It is a place open and accessible to all regardless of their gender, ethnicity, age, race or socio-economic level."

Characteristics of a Successful Public Space

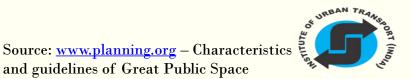
Access and Linkage



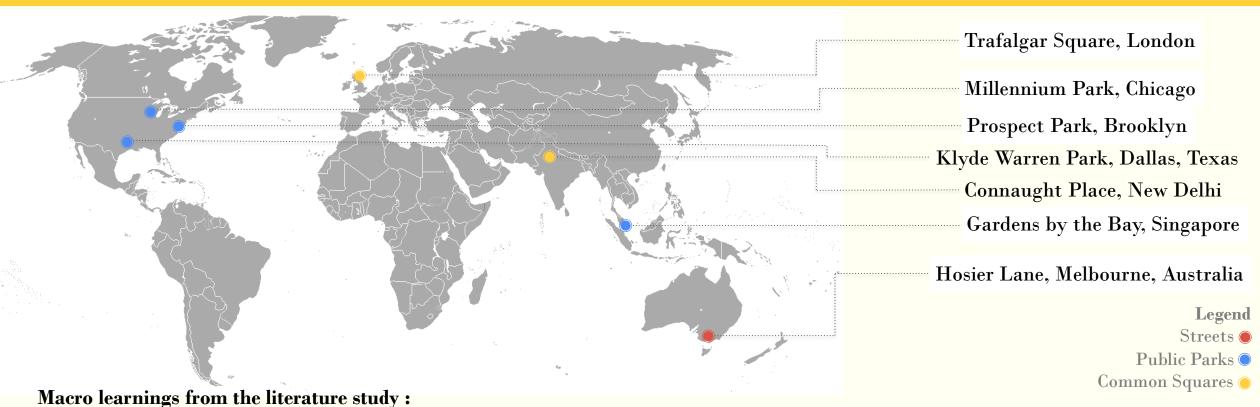
Comfort and Image

Uses and Activities

Sociability



CASE STUDIES



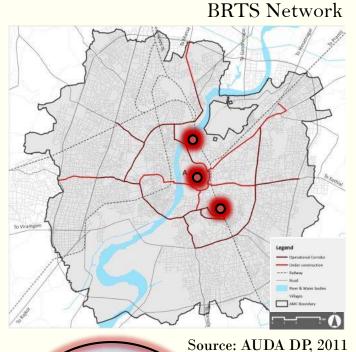
- Each public space has a unique image of its own which makes it easy for people to connect to the space.
- There is a wide range of activities and usage of each space which attracts people from around making it a key attraction.
- All places has a common characteristic i.e. they provides a space for social interaction which promotes community development.
- All successful places are connected with well developed public transit at walkable distance.



CITY PROFILE: Ahmedabad

Road Network Introduction Area: 464 sq. km. Population: 6 M Average population density: 12,000 / square km.

AMTS Network



City level Public Spaces

Orban Mobility India

1% of the total land developed is under open space use.

1.12 sq. m. 760.6 ha per capita



AMC Boundary

Bhadra Plaza





Kankaria Lakefront

Riverfront Garden

STUDY AREA

Kankaria Lakefront



Area: 31 ha. (periphery)

Operational Timings: 8.00 a.m. to 10.00 p.m. Use of Space: Recreational, Cultural and Social activities **Footfall:** 80,000 (weekends) | 10,000 (weekdays)

Riverfront Garden

Area: 10 ha.



Operational Timings: 6.00 a.m. to 9.00 p.m.

Use of Space: Recreational activities

Footfall: 2,000 (weekends) | 200 (weekdays)

Parking Space: 400 two wheelers | 80 four

wheelers

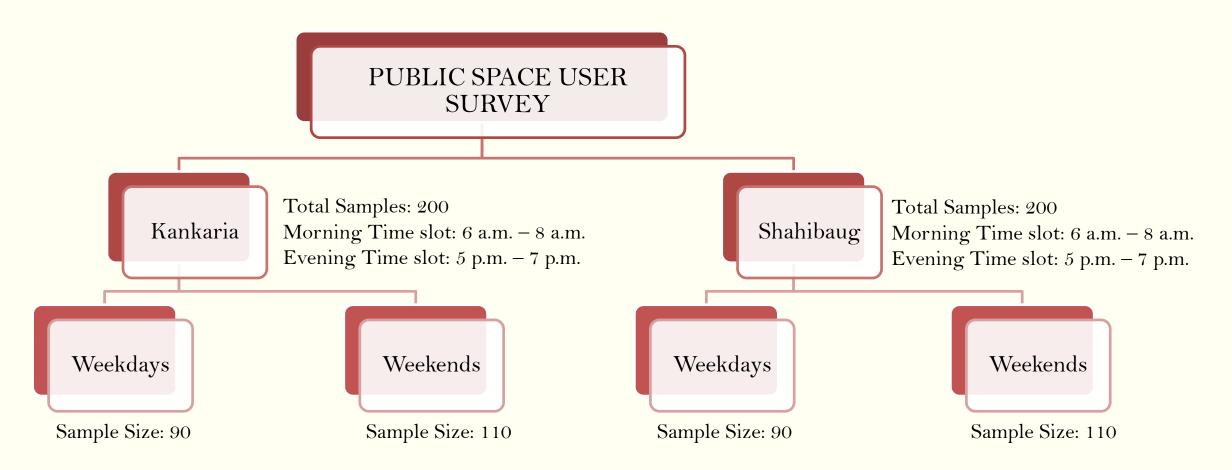




ASSESSING ACCESSIBILITY



SAMPLING

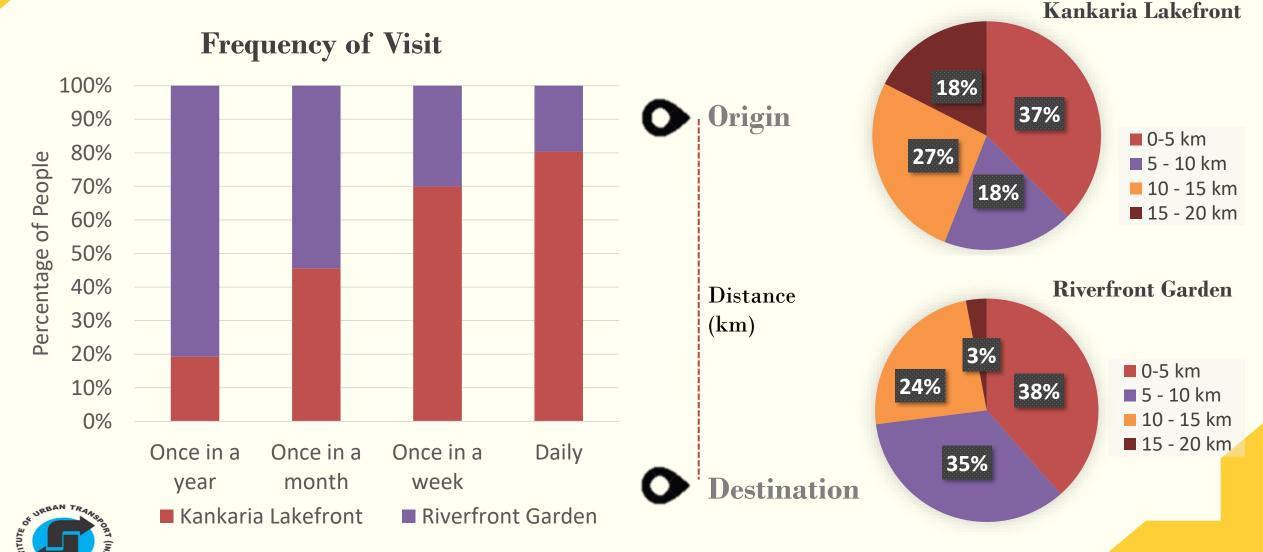






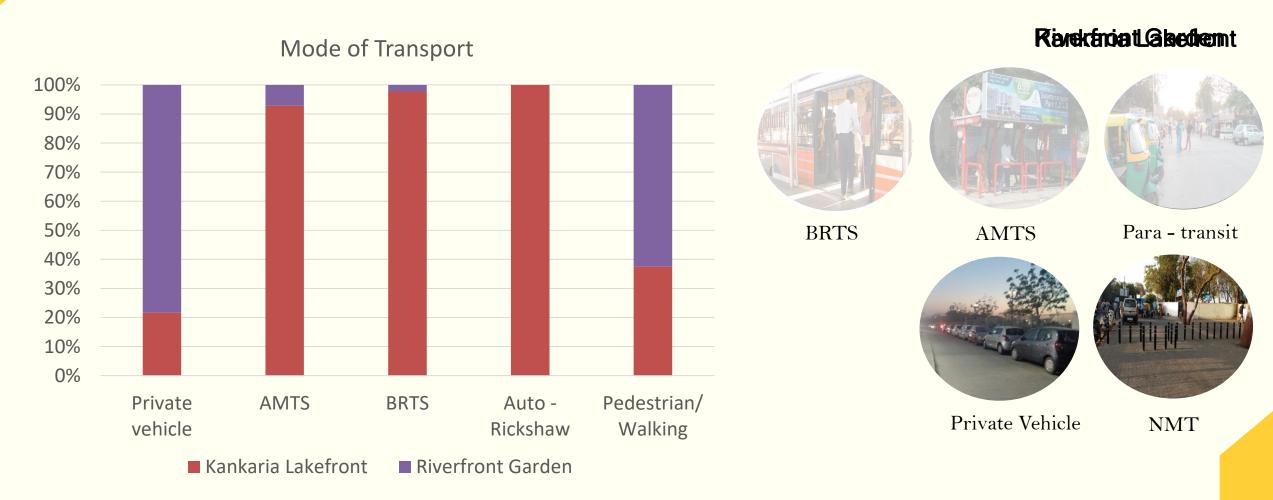


ASSESSING ACCESSIBILITY Transportation Demand and Activity





ASSESSING ACCESSIBILITY Transportation Options





Limited transportation options act as barriers to access the space.

Source: Primary Survey

ASSESSING ACCESSIBILITY Integration

Kankaria Lakefront

Gate -1

Riverfront Garden













Gate Source: Primary Survey

ASSESSING ACCESSIBILITY

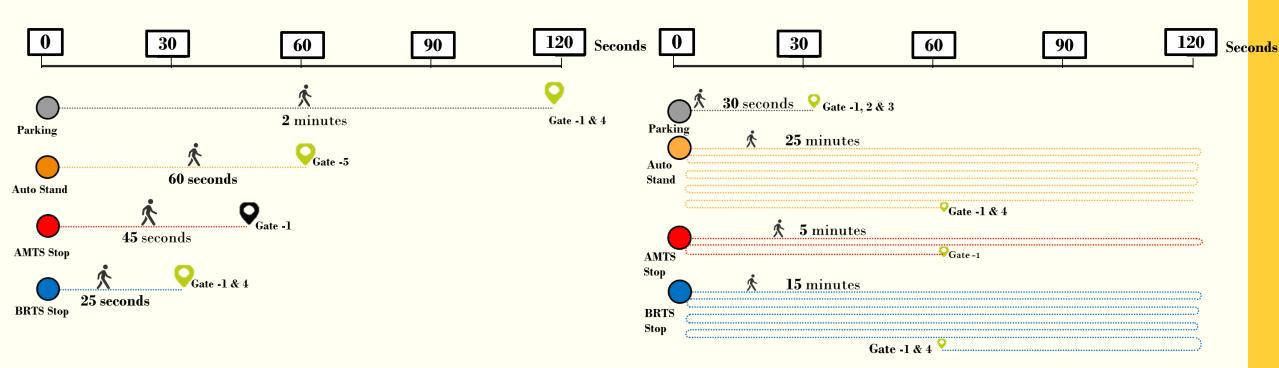
Integration

Time taken to access nearest entry points of the space from different transportation stops.

Kankaria Lakefront

Riverfront Garden

Source: Primary Survey



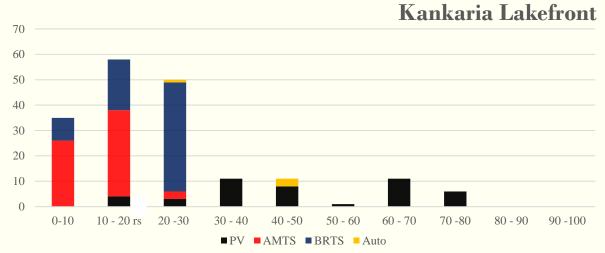
Lack in integration of different transport systems of the city, creates conflicts for accessibility.

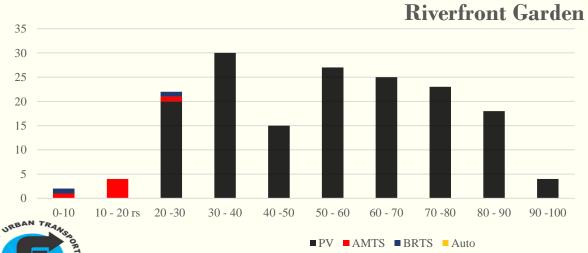




ASSESSING ACCESSIBILITY Affordability & Transport Network

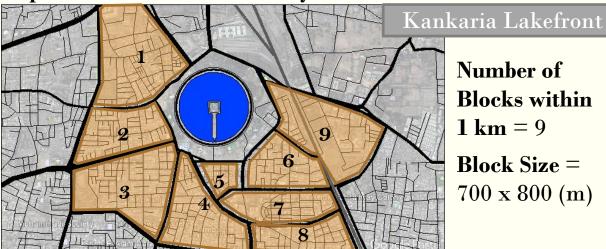
Affordability





Source: Primary Survey

Transport Network & Connectivity



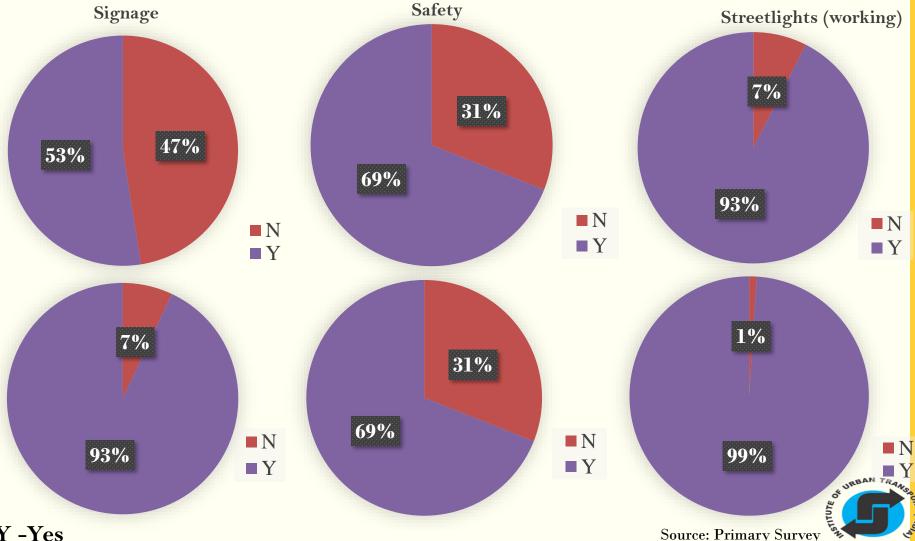


ASSESSING ACCESSIBILITY User Information

Kankaria Lakefront



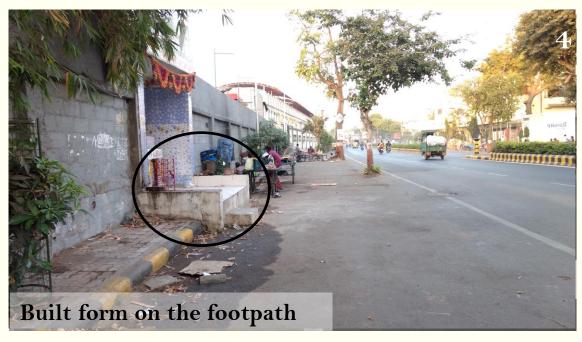
Riverfront Garden





UNDERSTANDING ACCESSIBILITY Prioritization

Kankaria Lakefront



Riverfront Garden



Non-availability of accurate user information like signages, routes, timing and fares affects the decision making. Larger block sizes, uncondensed road network and discontinuous access paths, decreases walkability and forces people to rethink upon using NMT or PT.

Ourban Mobility India

Source: Primary Survey



KEY TAKEAWAYS



CONCLUSION

Factors	Kankaria Lakefront	Riverfront Garden	
Transport Demand & Activity			
Transport Options			
User Information			
Integration			
Affordability			User
Transport Network Connectivity			Accessibility
Prioritization			Inaccessibil

Kankaria Lakefront is more accessible than Riverfront Garden.





INFERENCES

- Availability of limited transport options at the destination also **limits the diversity of user groups** that can access the space.
- Un-availability of quality public transport services and system not only at the destination but origin as well, acts as a
 deciding factor for the users while making mode choices. Thus a strong, integrated and quality network of public
 transport throughout the city can attract more users to depend on public transport facilities comfortably.
- Riverfront gardens are perfect example of spaces in a city where continuous efforts are being made to increase
 automobility and not accessibility.
- Justice is not being provided to the developed public spaces as they lack in optimum utilization, for all types of users are not able to access it.

It can be concluded that a great public space with a strong public transport network can give an impressive image to the city along with providing quality life to its residents.





THANK YOU

