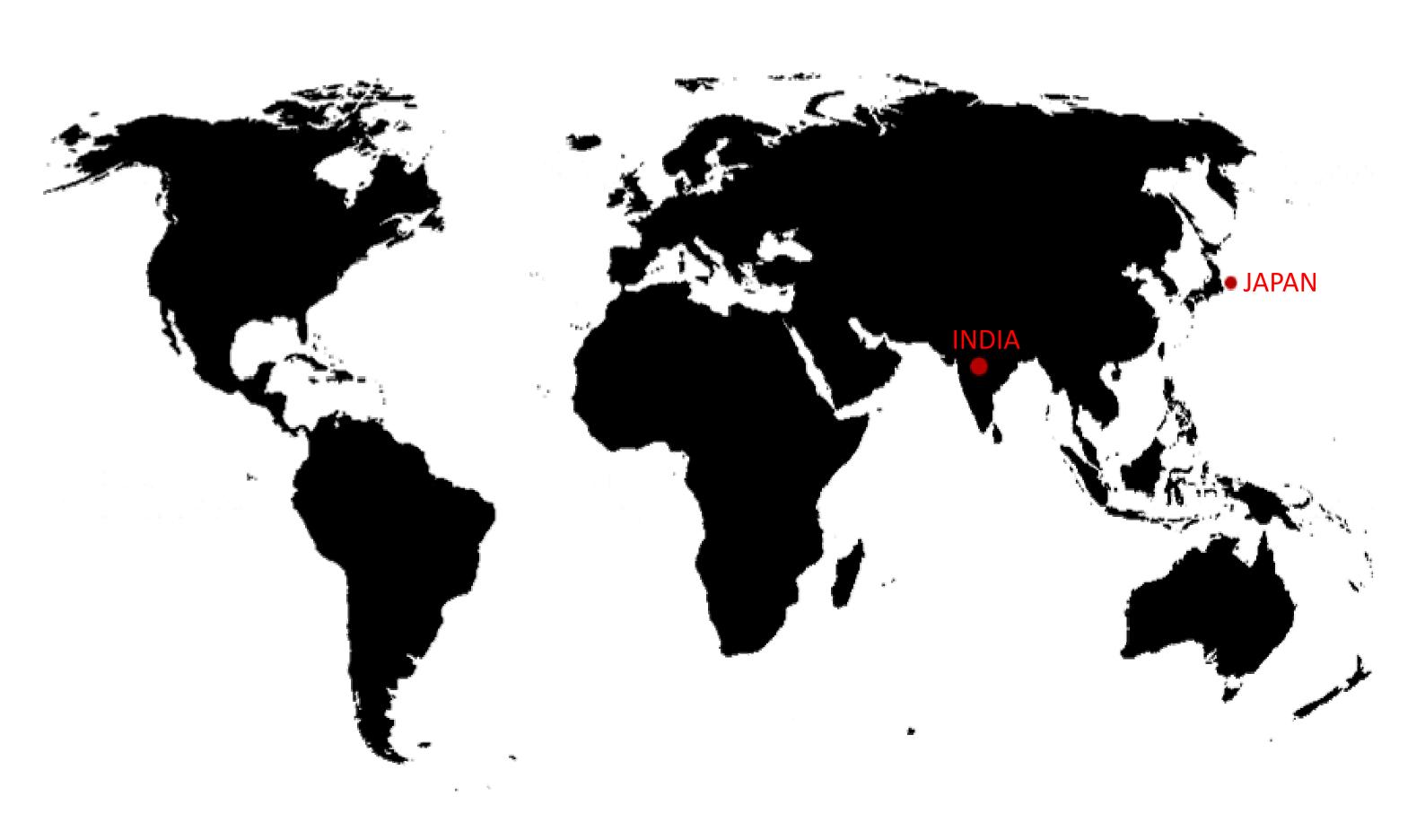


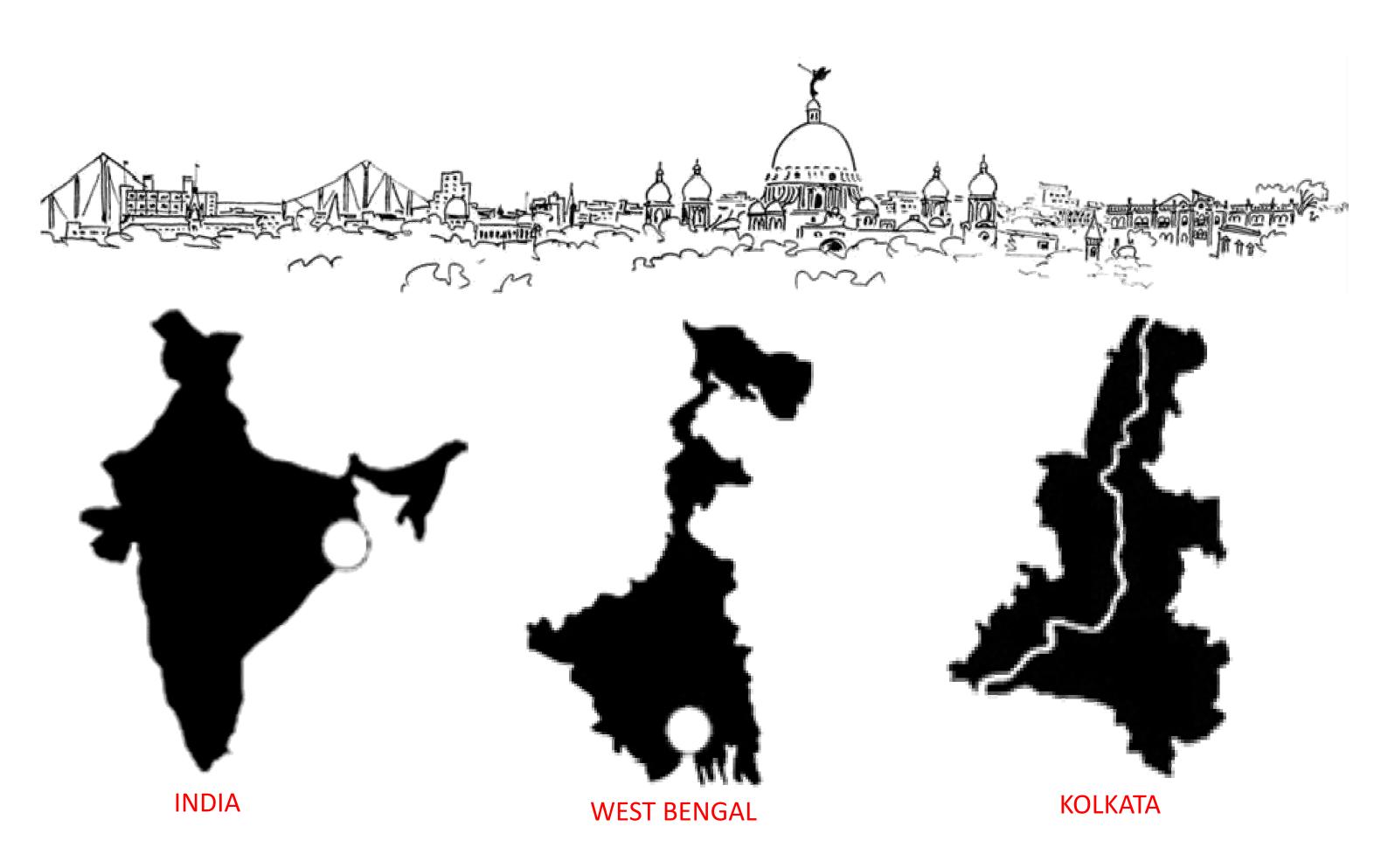




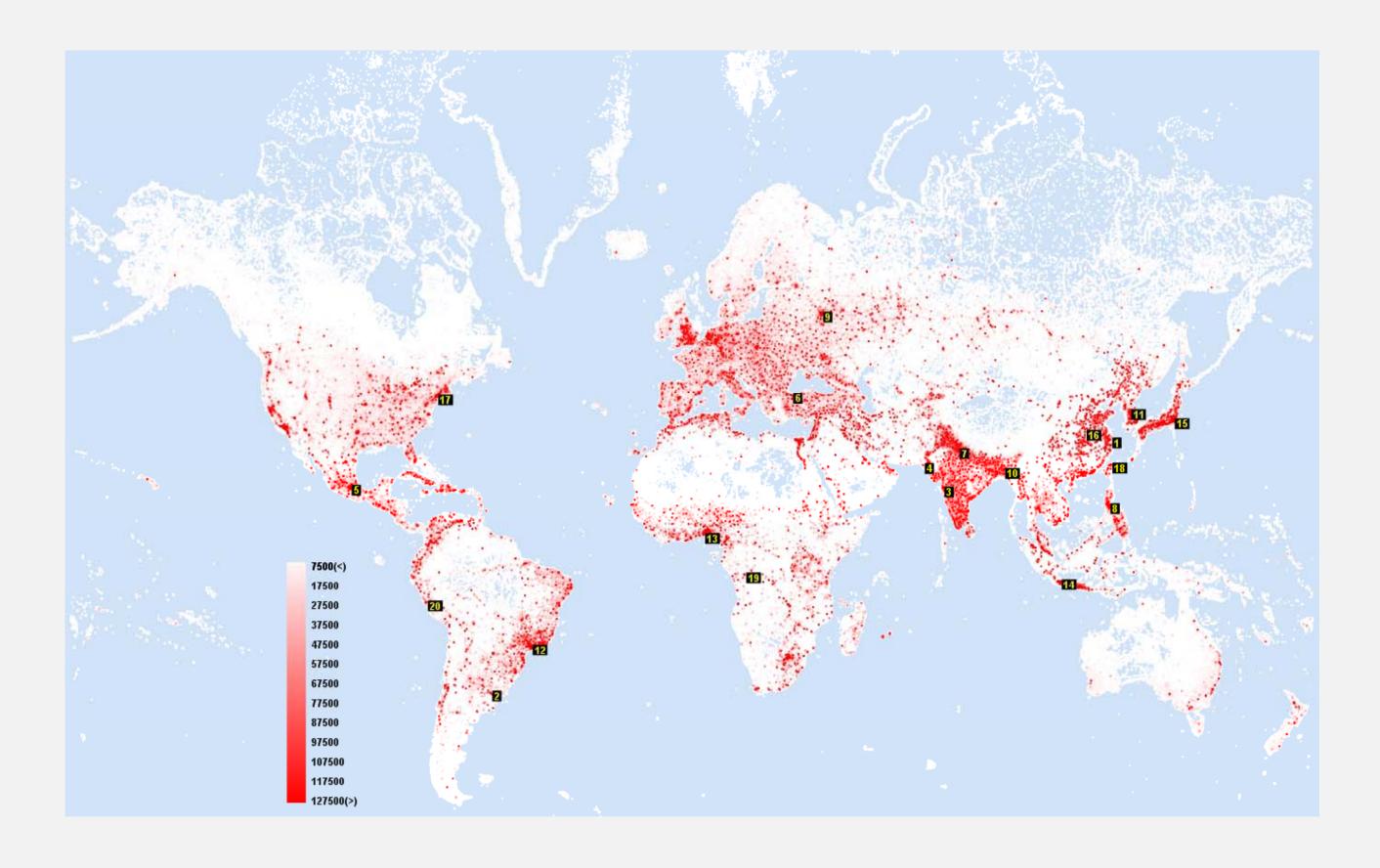
GLOBAL LOCATION OF THE TWO COUNTRIES



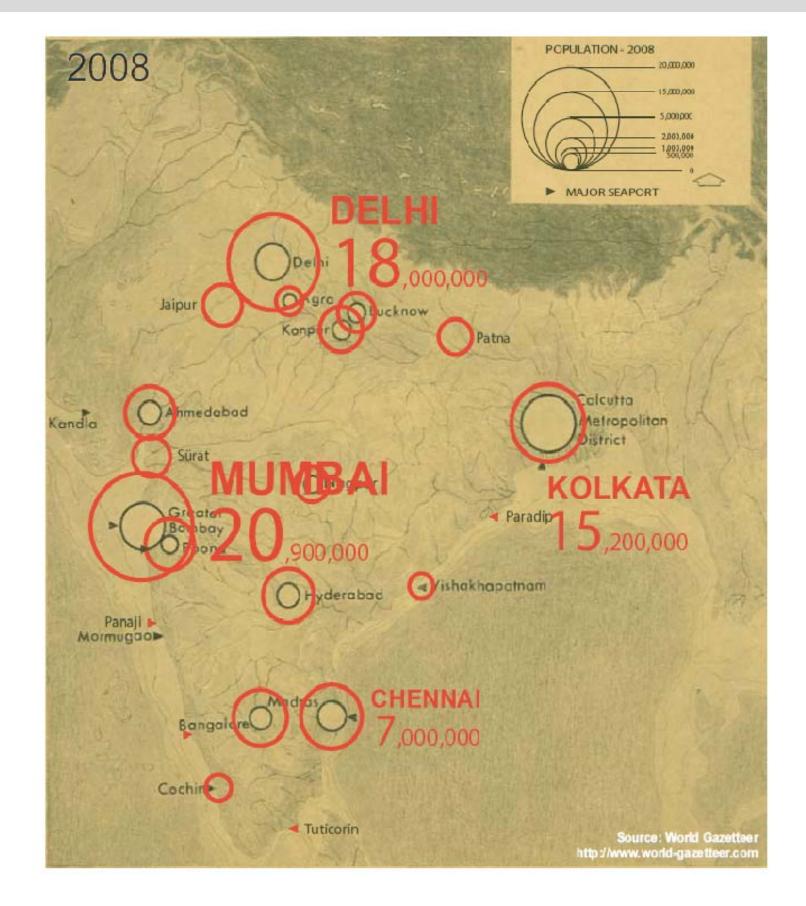
LOCATION of KOLKATA IN INDIA



Population Density Map



Demographics



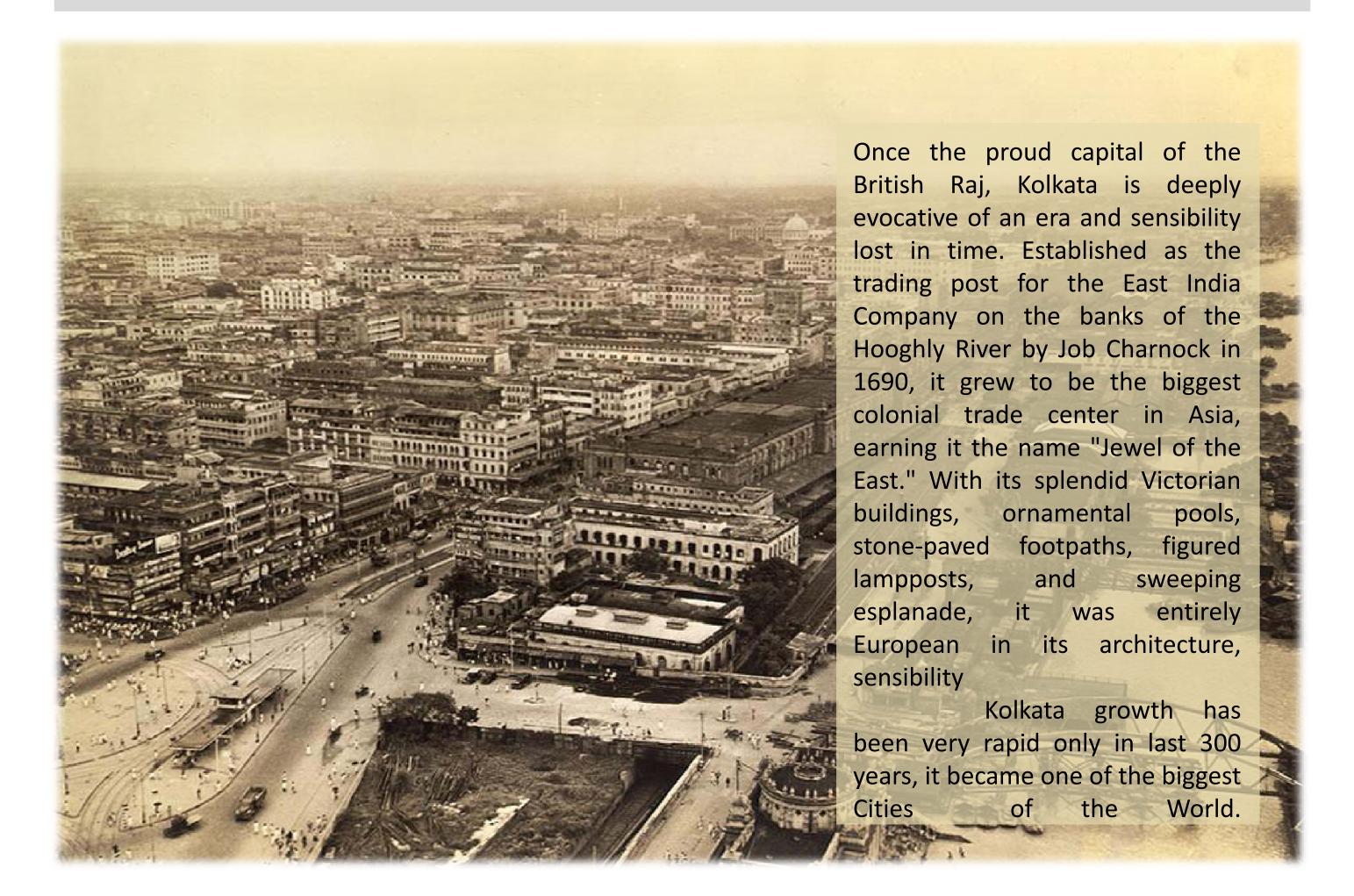
Others include Sikhs, Buddhists & Other religions (0.19%)			
Religion in Kolkata ^[95]			
Percent			
77.68%			
20.27%			
0.88%			
0.46%			
0.71%			

Kolkata urban agglomeration population growth

Census	Total	%±
1981	9,194,000	
1991	11,021,900	19.9%
2001	13,114,700	19.0%
2011	14,112,536	7.6%

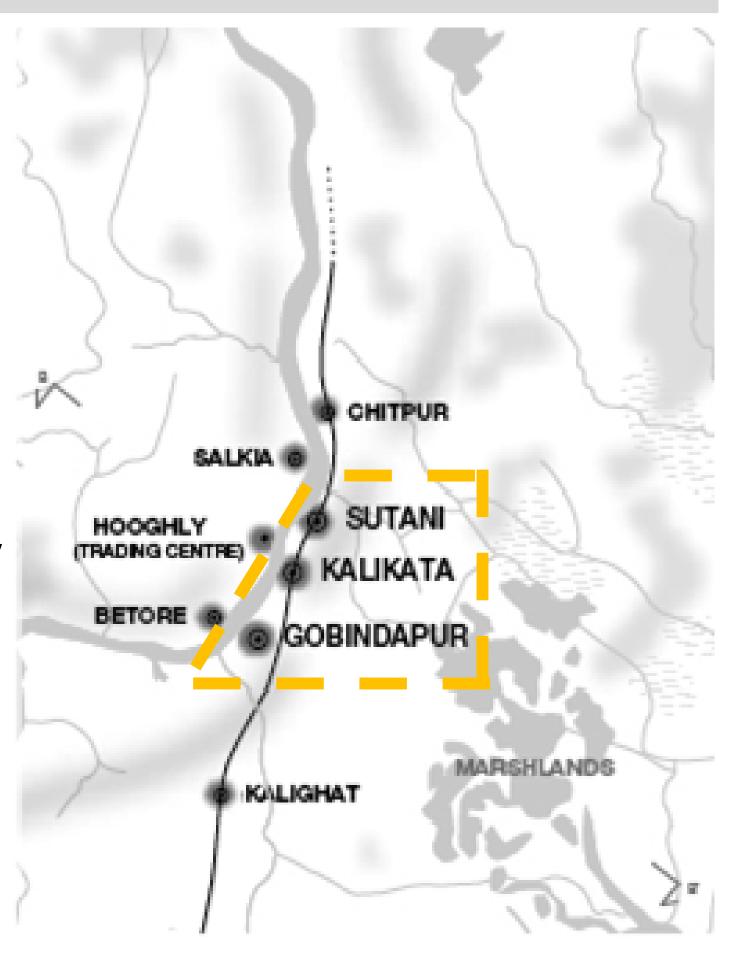
Source: Census of India^[5]

HISTORY



ORIGIN of KOLKATA

- In 1690, Job Charnok, an agent of the East India Company chose this place for a British trade settlement.
- •The site was carefully selected, being protected by the Hooghly River on the west, a creek to the north, and by salt lakes about two and a half miles to the east.
- •There were three large villages along the east bank of the river Ganges, named, **Sutanuti**,
- Gobindapur and Kalikata. These three villages were bought by the British from the local land lords. The Mughal emperor granted East India Company freedom of trade in return for a yearly payment of 3,000 rupees.
- In 1772, Calcutta became the capital of British India, till 1912, Calcutta was the capital of India, when the British moved the capital city to Delhi in1947, when India gained freedom
- Calcutta became the capital city of the state of West Bengal.



PAST











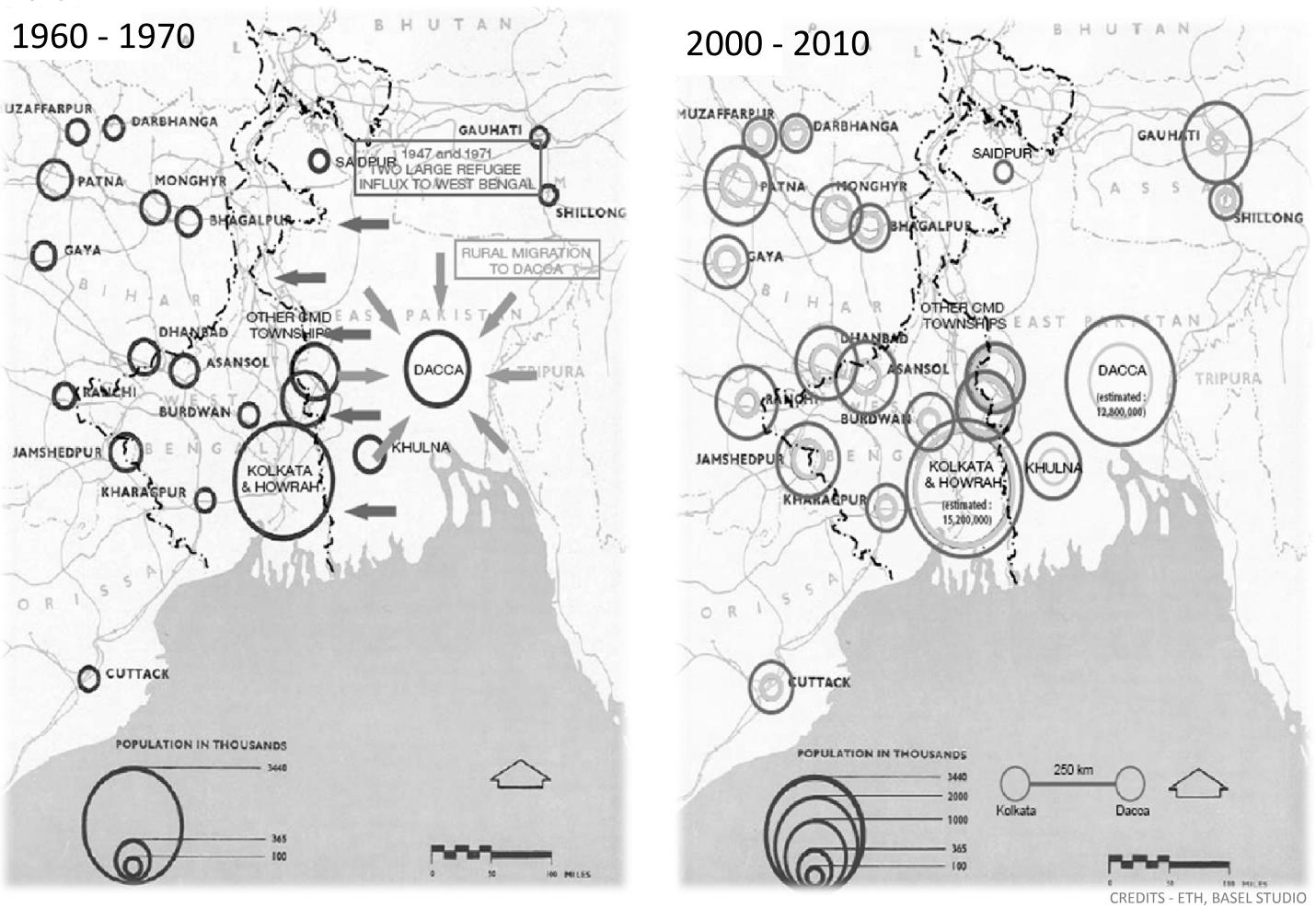






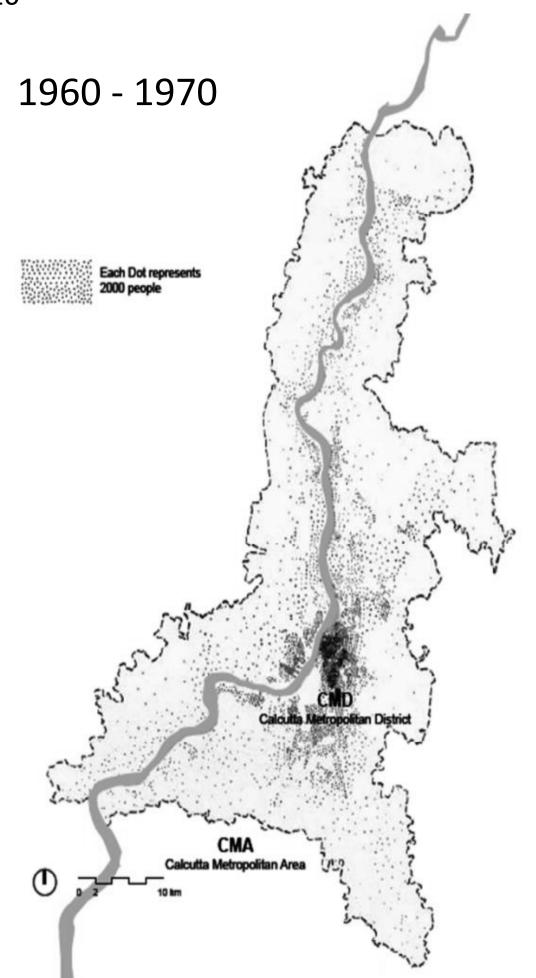
GROWTH OF KOLKATA

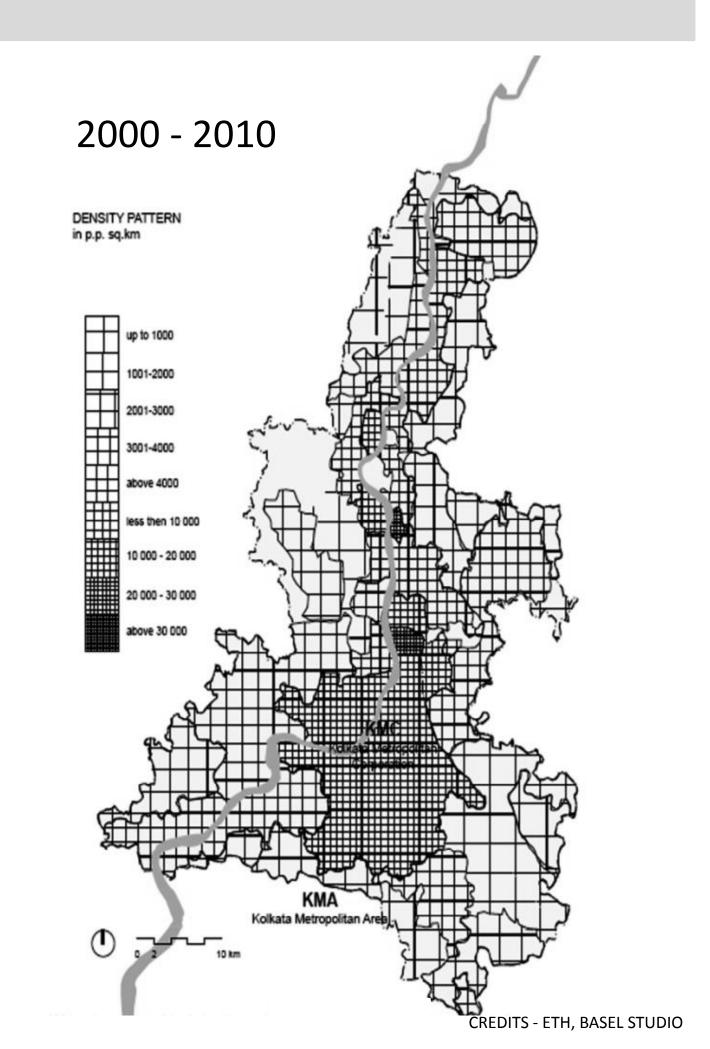
GROWTH 1960-

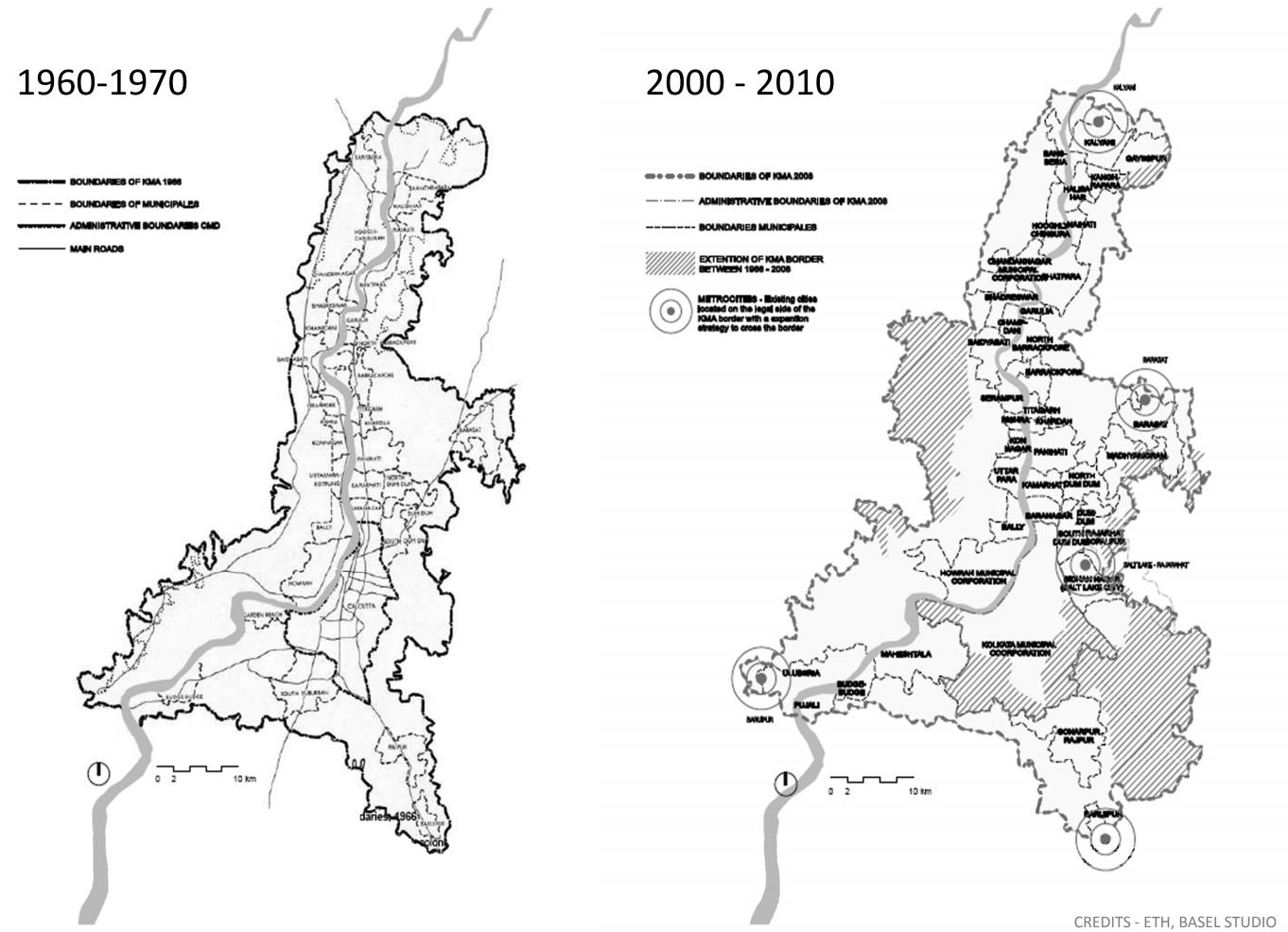


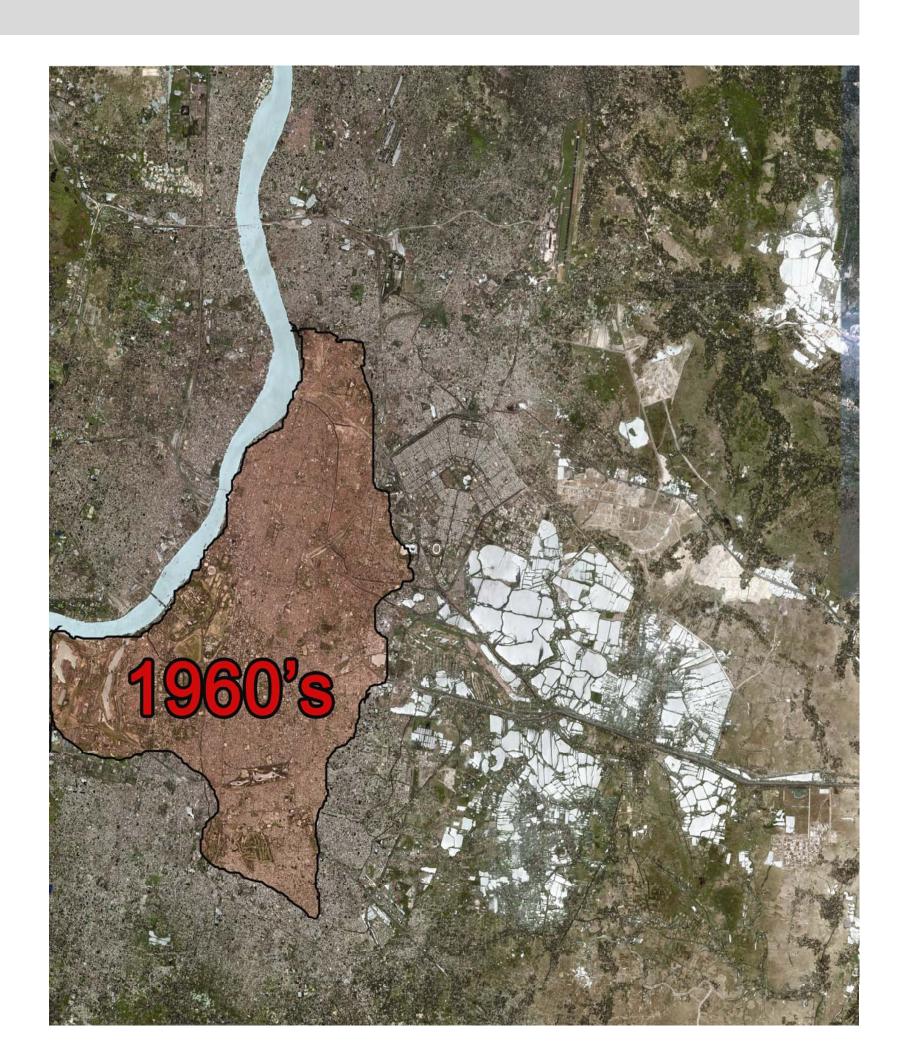
POPULATION

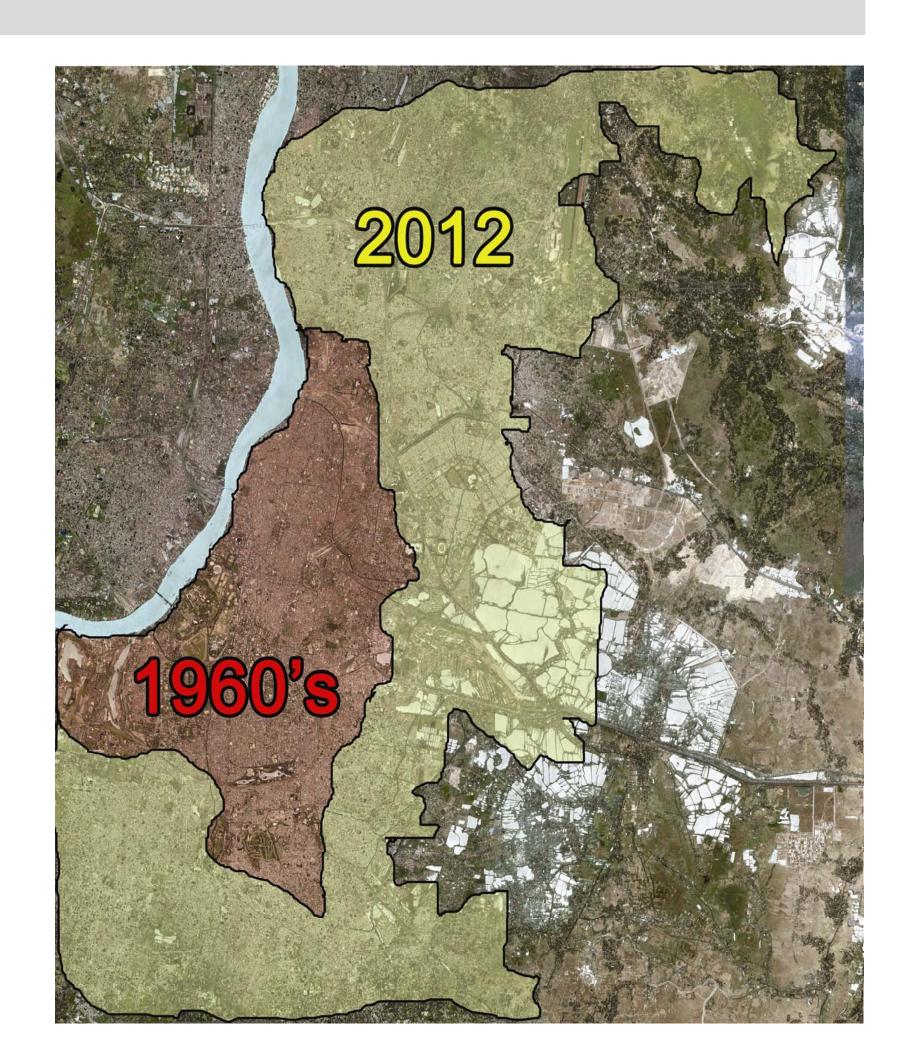


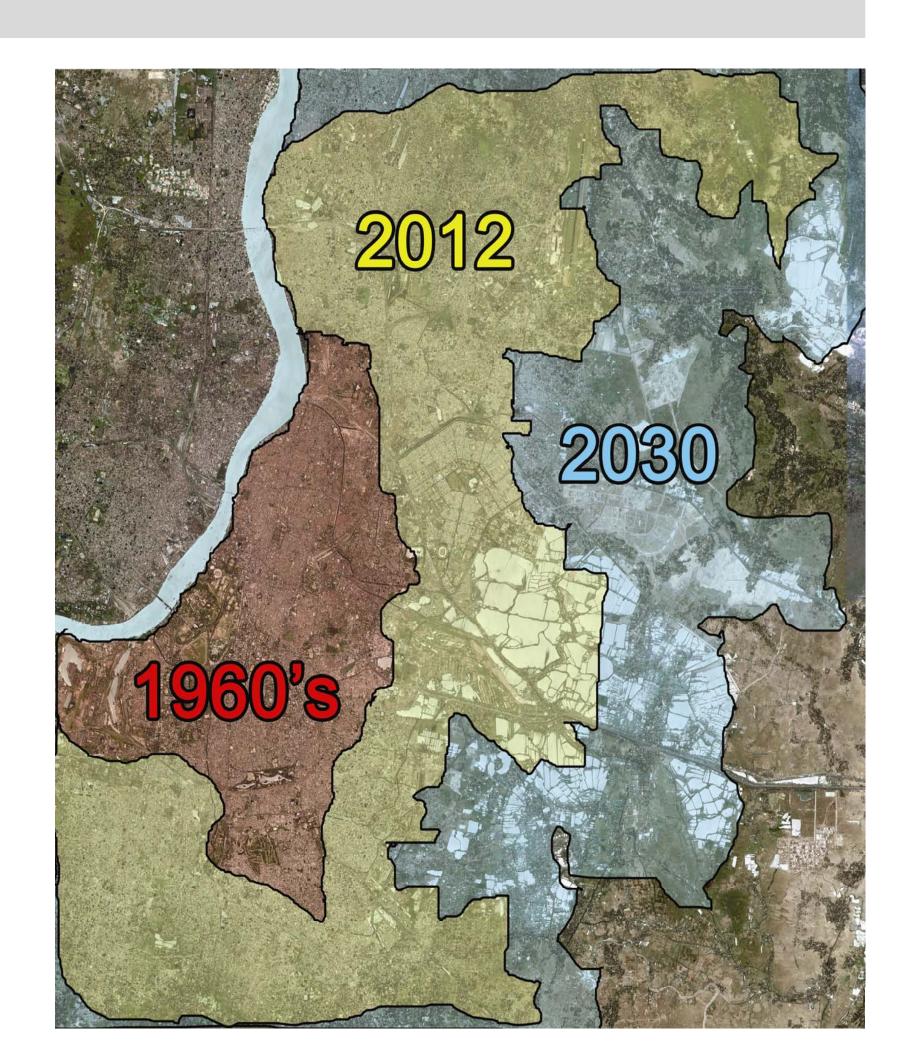




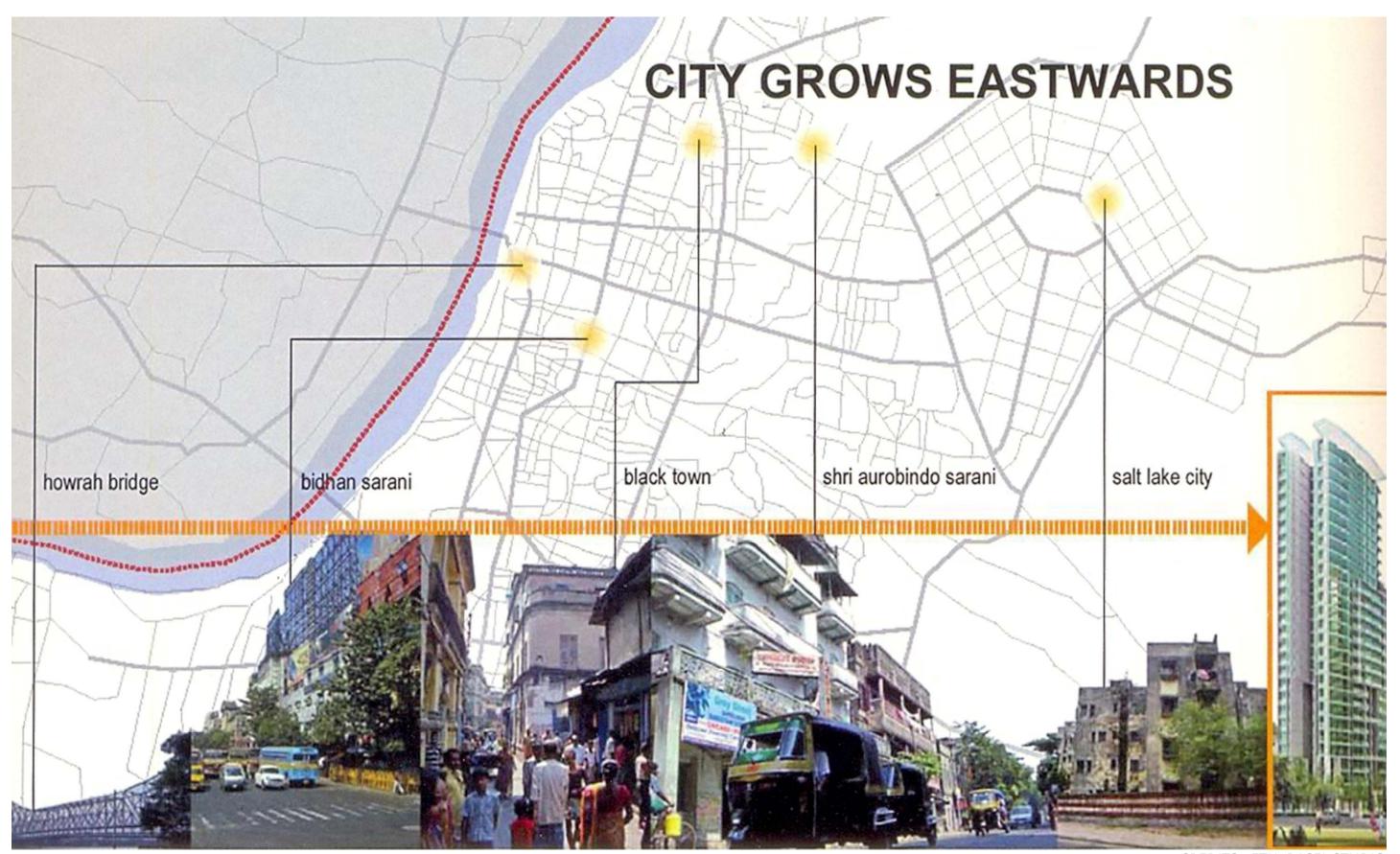






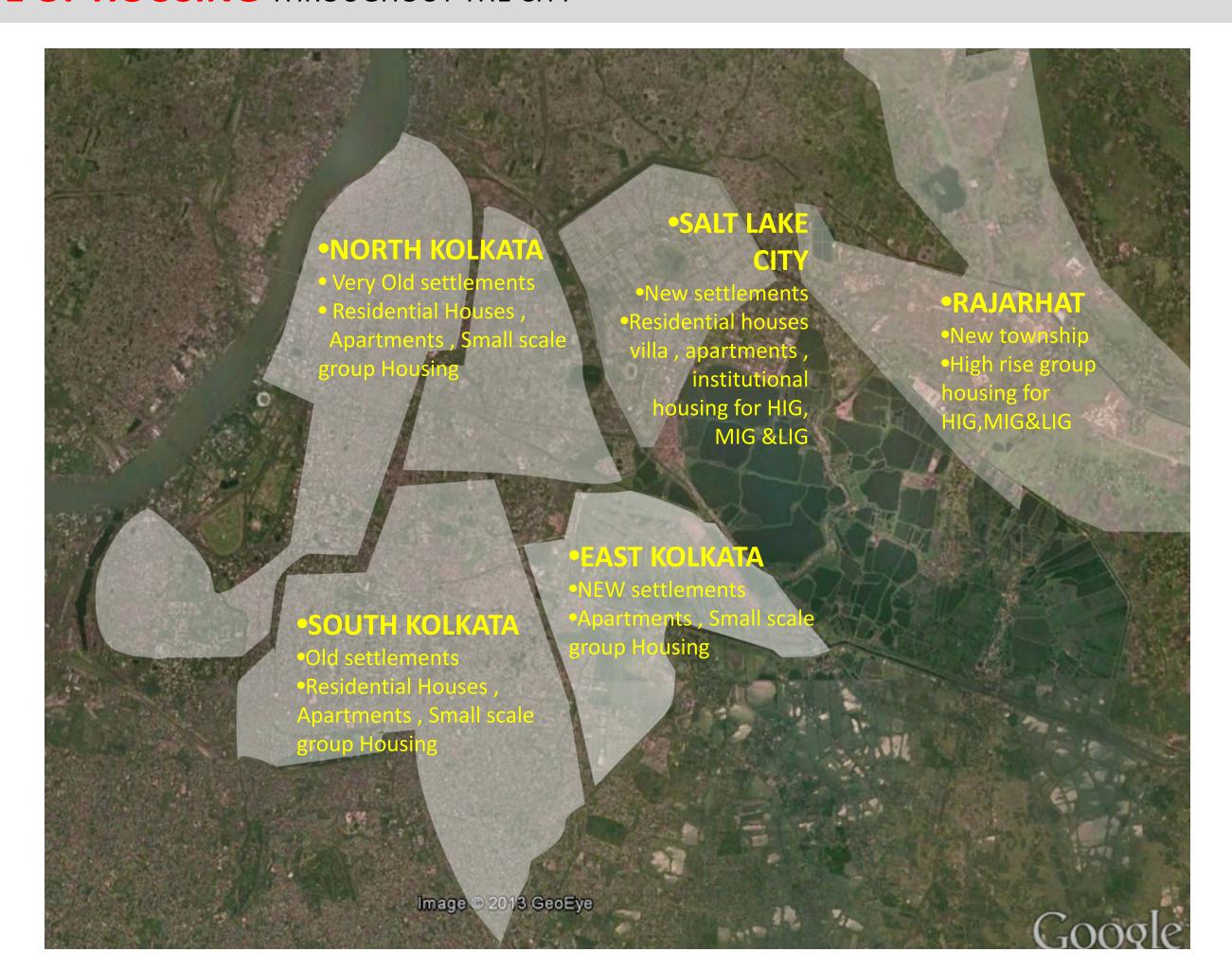


GROWTH OF THE CITY



HOUSING CULTURE OF KOLKATA

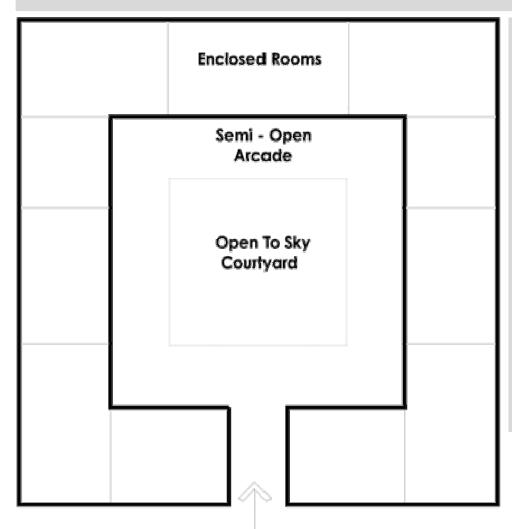
TYPE OF HOUSING THROUGHOUT THE CITY



TRADITIONAL HOUSES – COURTYARD TYPOLOGY



TRADITIONAL HOUSES – COURTYARD TYPOLOGY



Time Line: 18th century

Socio Economic Factors: It is the very old typology of residential Unit in the city where different families stayed jointly in the same building.

Architecture Style: Coagulation of European Art with Local

Architecture

Location: North, KOLKATA

Comment: This plan form had been followed to address the hot & humid of the city KOLKATA, making a central open space and enclosed it building structure all around with verandahs or balcony to form a arcade in between the courtyard and the building.

Entry to Courtyard House





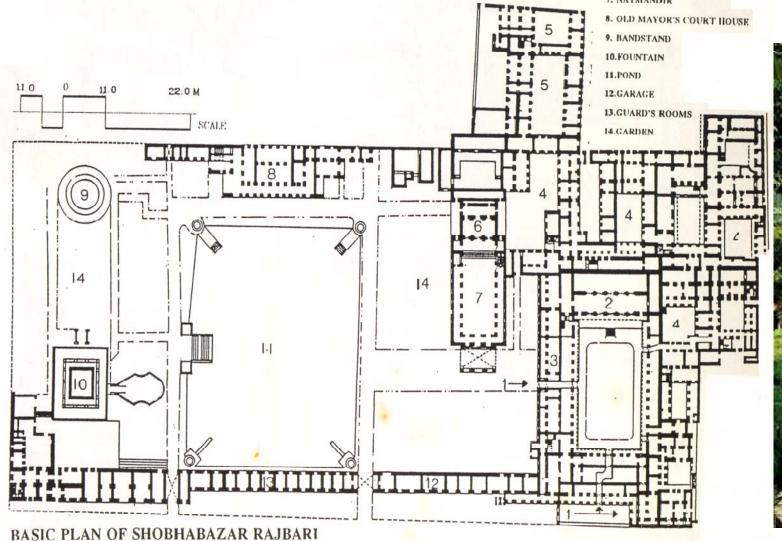
TRADITIONAL HOUSES — COURTYARD TYPOLOGY

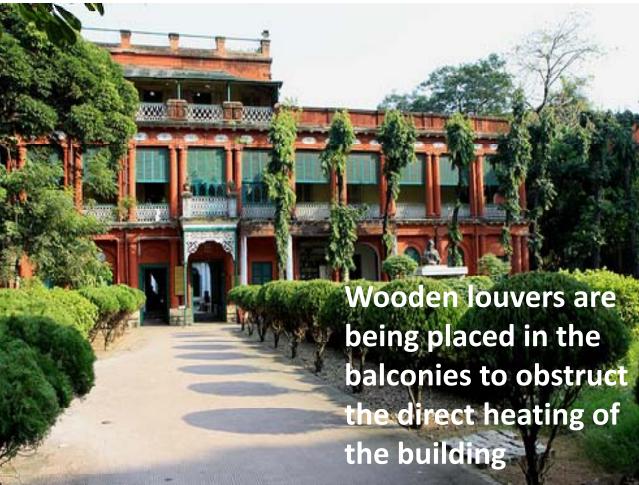
Features

- •Climate Response
- Space Segregation
- Natural Lighting
- •Assembly Place in the courtyard
- •Light Color
- Cross Ventilation

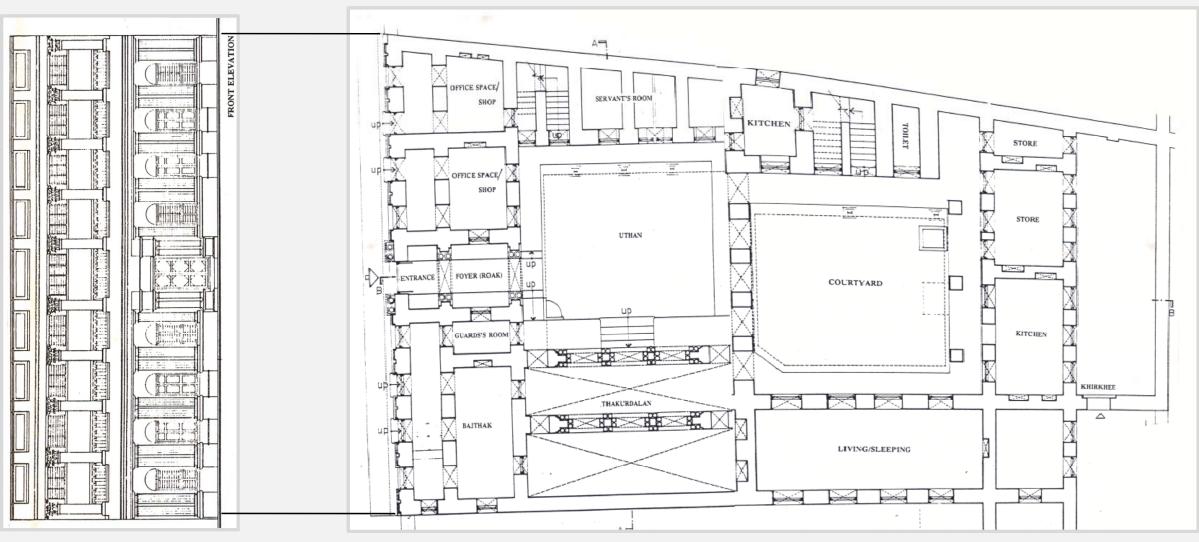




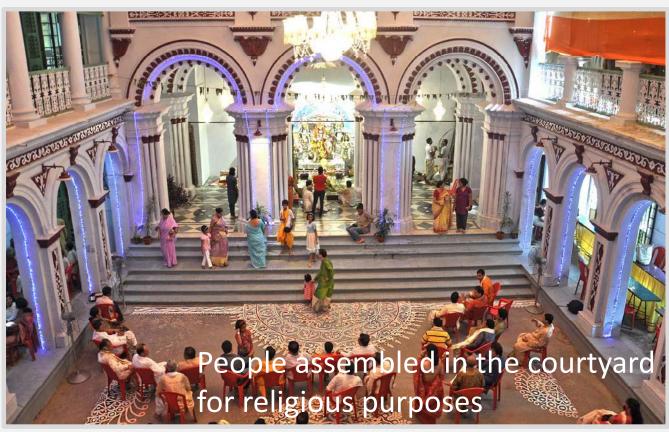




TRADITIONAL HOUSES - COURTYARD TYPOLOGY



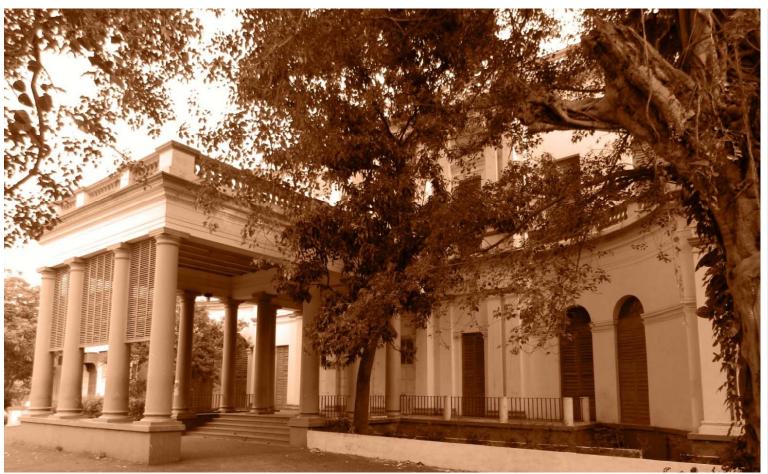




TRADITIONAL HOUSES - Bungalows



TRADITIONAL HOUSES - Bungalows



Time Line: 19th century

Socio Economic Factors: Single occupancy

Residential Building

Architecture Style: Neo – Classical in Local

Architecture

Location: Alipur, Shakespear Sarani, Bhowanipur

, KOLKATA

Comment: This single family luxurious residential houses, which was mainly occupied by the high incoming people of the city, with large open spaces in the front and back. Large gated entry with gigantic porches.



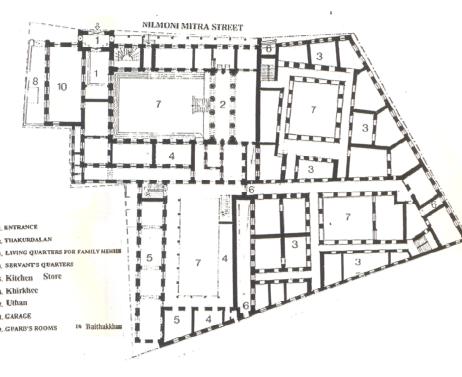


TRADITIONAL HOUSES - Bungalows









Feature

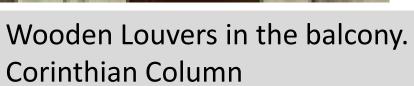
- •Climate Response
- Space Segregation
- •Natural Lighting
- •Large green open spaces .
- height of the buildings is maximum 2-3 storey.
- •Use the character of Neo-Classical style .

TRADITIONAL HOUSES – Bungalows ... Architectural features





Large entry porches







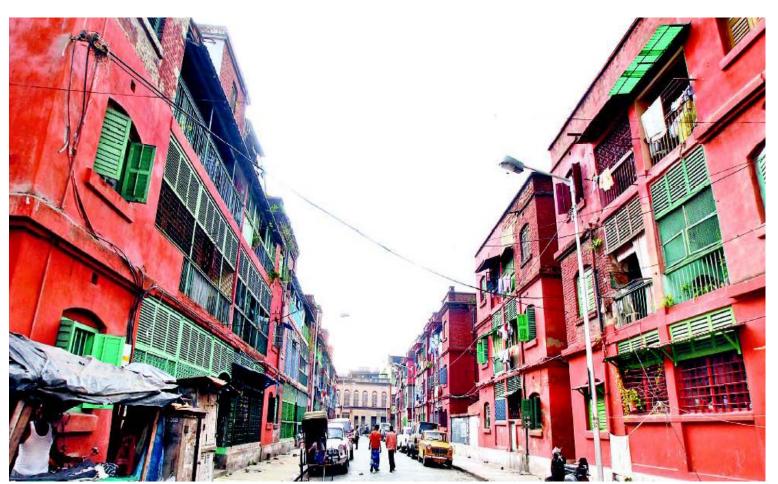
Wooden windows with classical outlook

Large building envelope with large windows

TRADITIONAL APARTMENTS .. BOW BARRACKS



TRADITIONAL APARTMENTS .. BOW BARRACKS



Time Line: 1914

Socio Economic Factors: Currently occupied as

Residential Apartment

Architecture Style: Classical **Location :** Central KOLKATA

Comment: It was made for the Garrisons Mess during WORLD WAR-1 & now it is occupied by

Anglo-Indian Families .

This Initializes the group Housing in the city First.

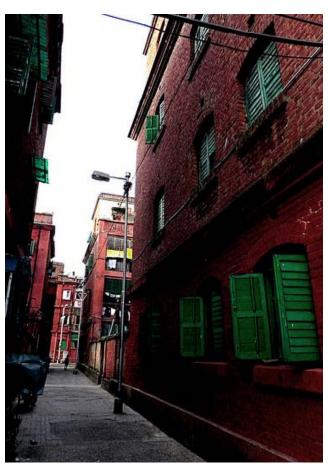




TRADITIONAL APARTMENTS .. BOW BARRACKS









Feature

- •First Multiple family housing concept in the city .
- •Service core concept has been implemented .
- •Use classical in a contemporary way .
- •Height of the building is maximum of 4 storey .

TRADITIONAL APARTMENTS .. BOW BARRACKS ... Architectural Elements



Wooden windows



Wooden Louvers following character of old buildings of Kolkata



Small toilet windows

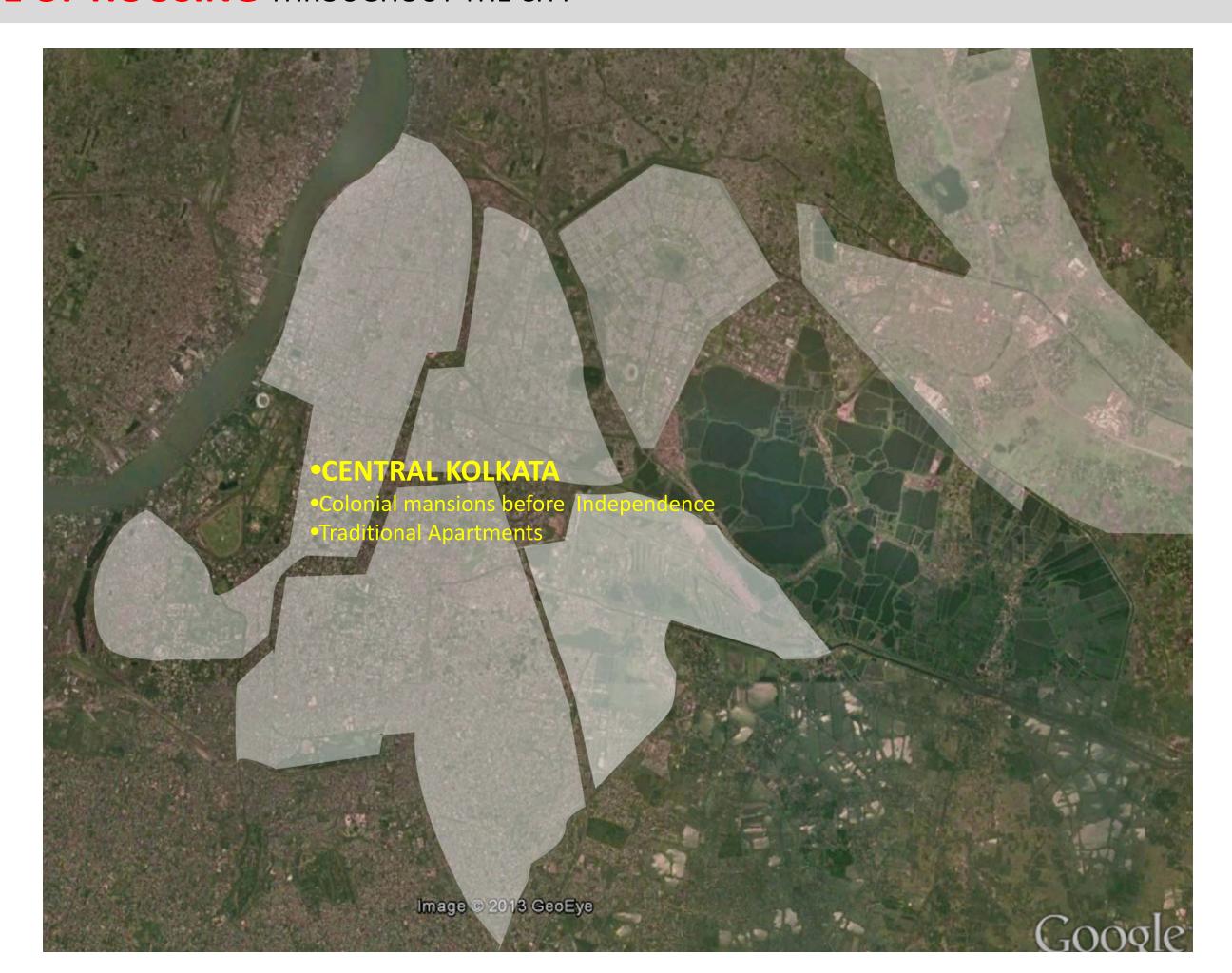
Common Service core between the two buildings



Most work of exposed Brick works



TYPE OF HOUSING THROUGHOUT THE CITY



Colonial Mansions



Time Line: 18th Century

Socio Economic Factors: Currently occupied as

Residential, Commercial or Both

Architecture Style: Neo- Classical

Location: Colonial Town and Central Kolkata

Comment: This are being made during the time

of British raj in Kolkata. Its is a Mixed – use building basically having residential and commercial use. This trend has come from Downtown st., London, where ground floor is has got shops and the apartments at the upper

floors of the building.





Colonial Mansions









Feature

- High Density
- Space Segregation
- Multipurpose
- •Landmark
- •Big Structure
- •Neo Classical style.
- •Arcades are there at the ground floor .
- •Popular spaces for cities recreational activities .

Colonial Mansions ... Architectural Elements





Neo- Classical elements.

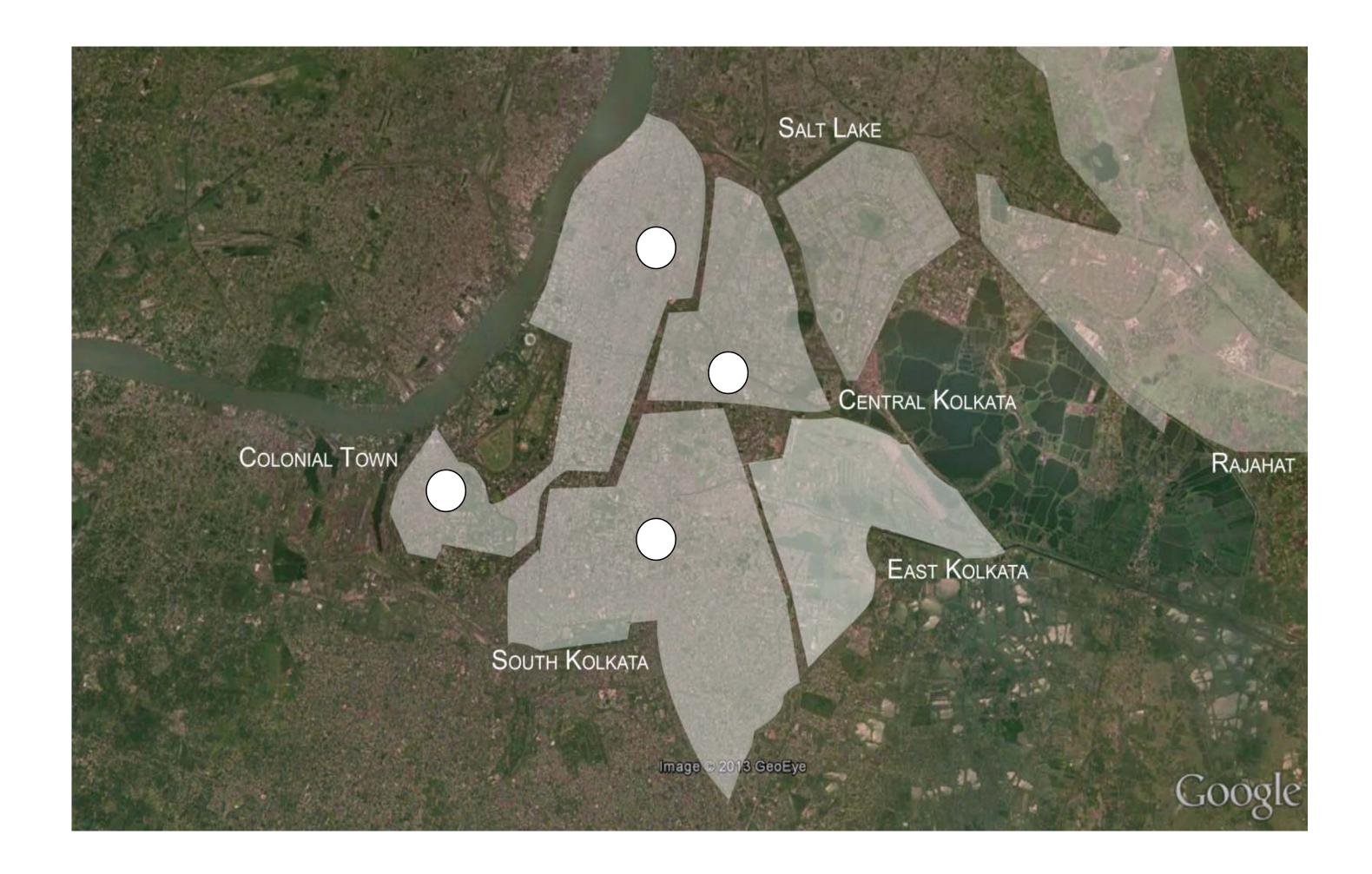




Wooden Windows with Classical Outlook



Palaces of KOLKATA



Palaces of KOLKATA



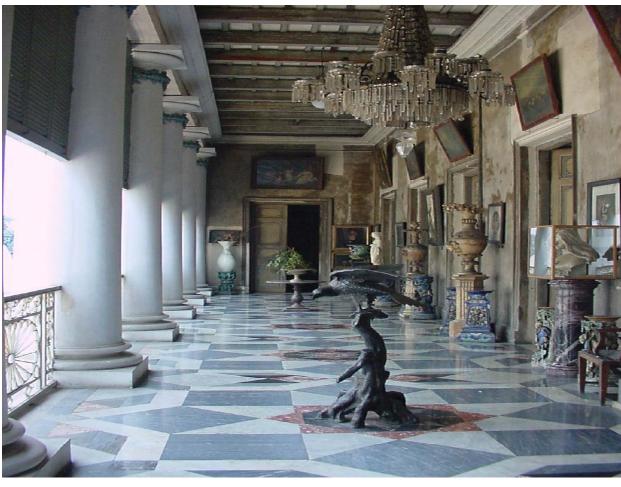
Time Line: 18th century

Socio Economic Factors: Mainly occupied by Zamindars (land owners) or Raja (KING

Architecture Style: European Art with

Local Architecture

Location: Scattered all over KOLKATA Comment: This are the large buildings with a frontal green open space all around the building. Large balcony are being made in the front side of the building.



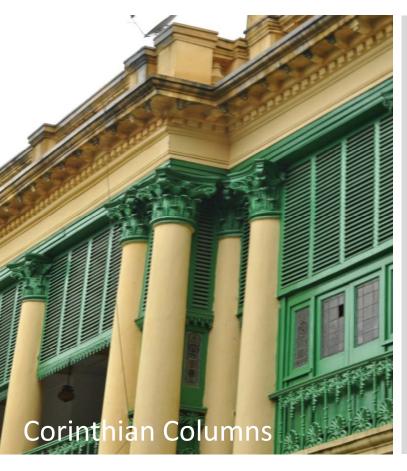


Palaces of KOLKATA ... Architectural Elements



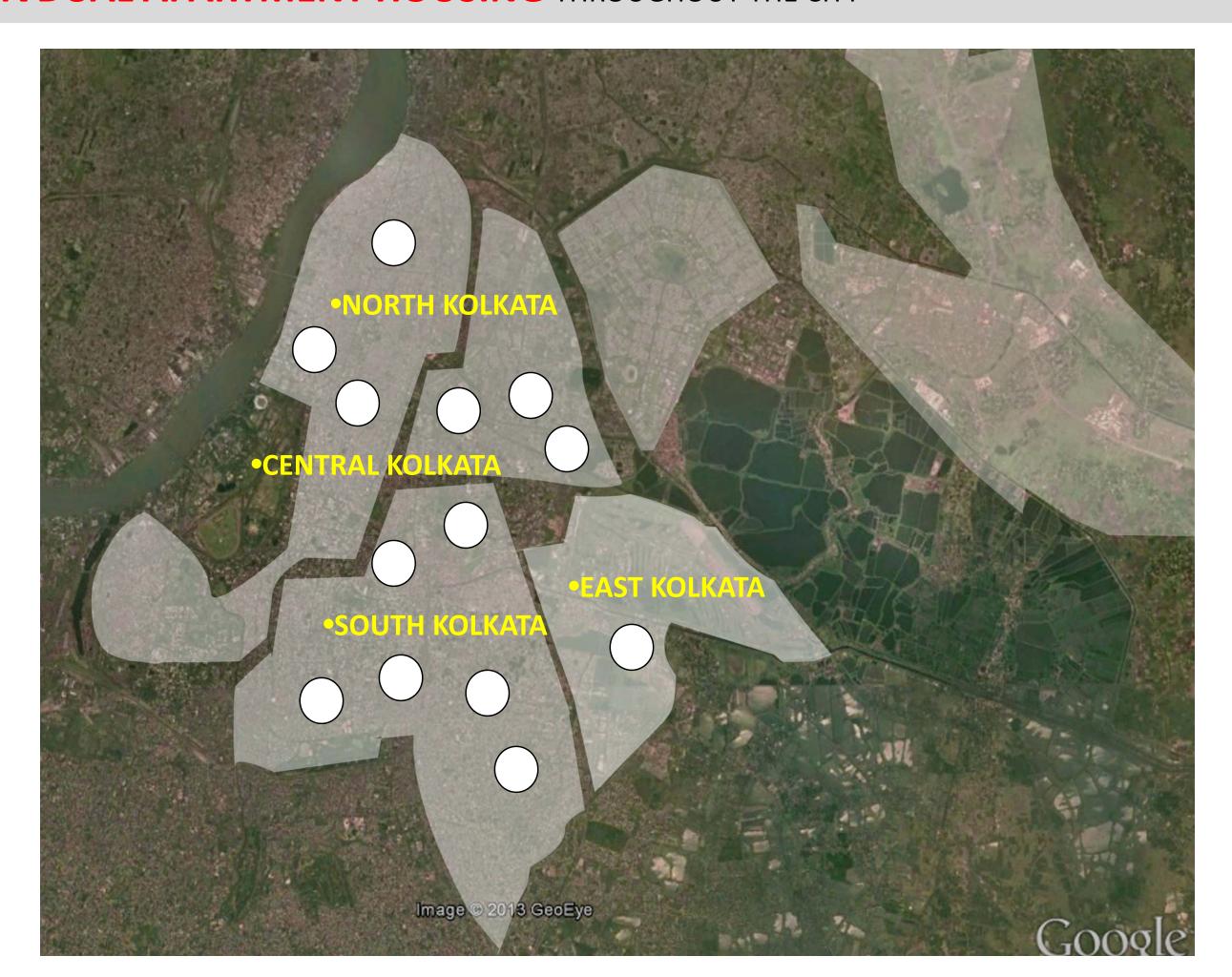






Features

Climate Response
Space Segregation
Natural Lighting
Light Color
Cross Ventilation
Large green spaces
within Buildings.
Use of Costly building
material



Squatters- An Intrinsic Property



Time Line: 1960's Onwards

Socio Economic Factors: Currently occupied

as Residential, Commercial or Both

Architecture Style:

Location: Outskirts of Kolkata

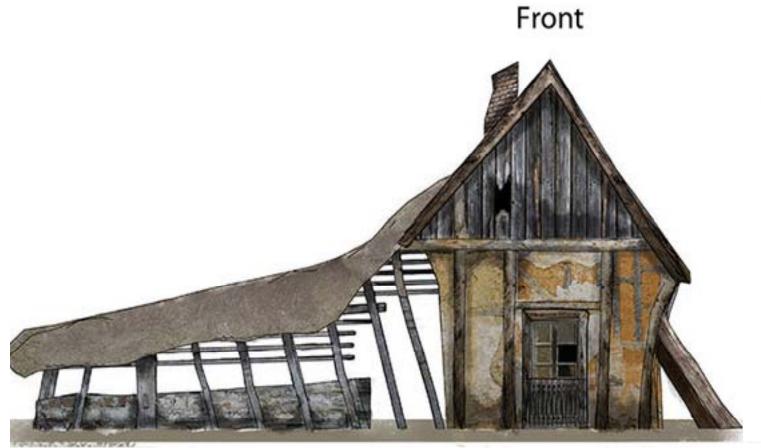
Comment: This type house are mainly occupied by poorer section of the city. This population generally stays in a dense format. Basically this Buildings are mainly formed at the outskirts of the city by grabbing lands. This buildings does have

any legal documentation.



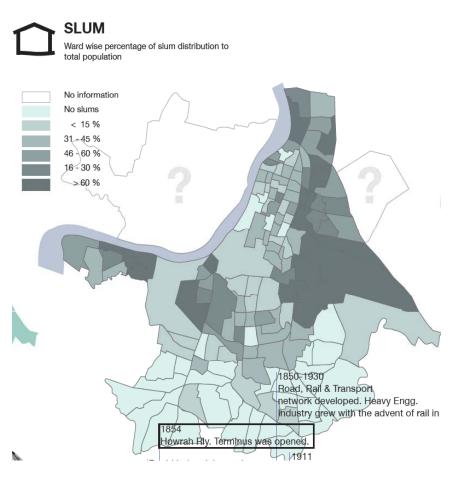


Squatters- An Intrinsic Property







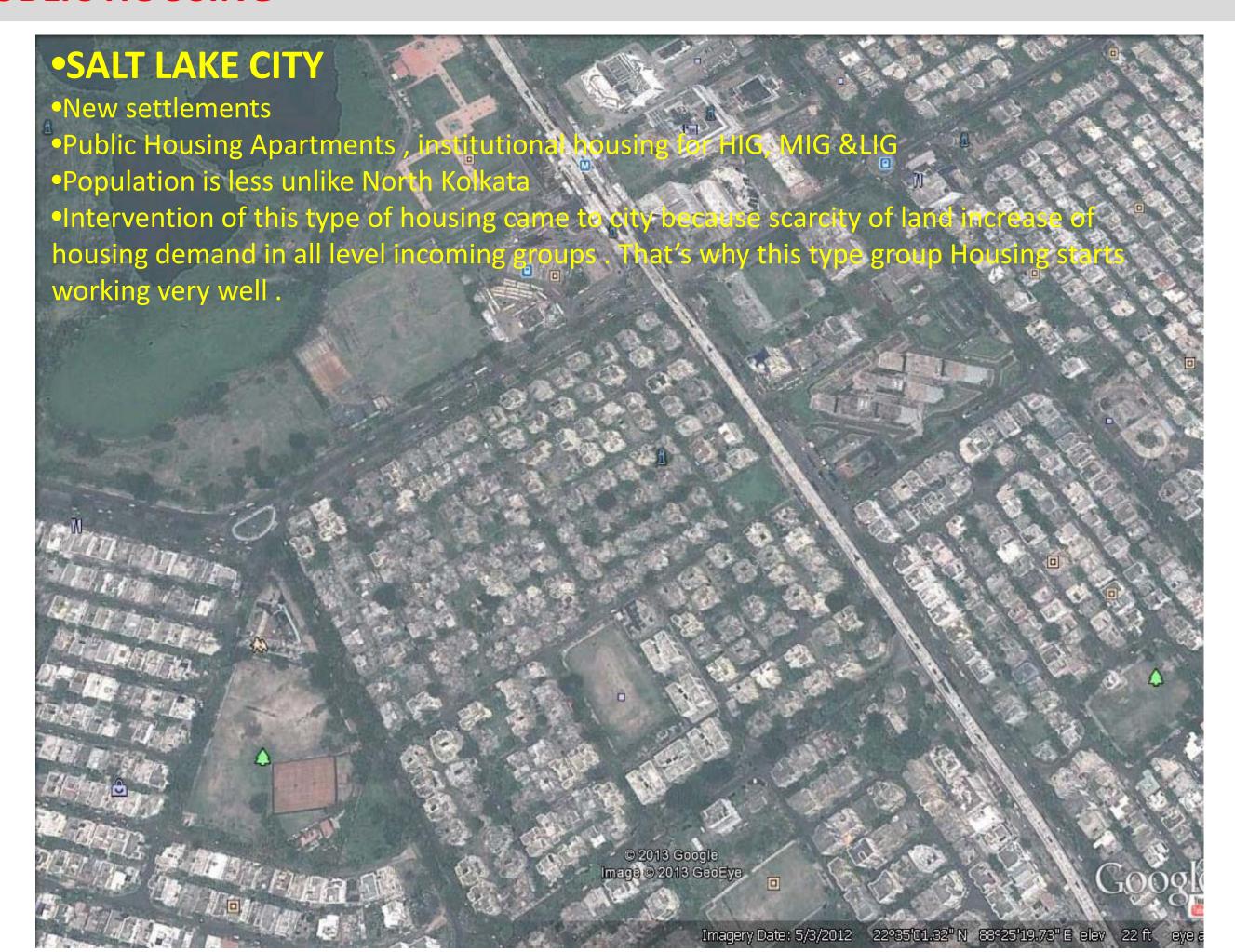




Feature

Elimate Response
Densely Populated
Natural Lighting Less
Very less provision for
Ventilation
They mainly use
recycled materials to
built the buildings.
This buildings not very
much sustainable

PUBLIC HOUSING



PUBLIC HOUSING





Time Line: Post 1970's

Socio Economic Factors: Multi-Family

residences

Architecture Style: Contemporary **Location:** Salt Lake city, KOLKATA

Comment: This group housing is being made in the salt lake city, these type housing is being practiced by **GOVERNMENTAL BODIES** for various incoming groups of people in the cities. This apartments are awarded to people who are working for the **GOVERNMENTAL**

ORGANIZATIONS in the city .



PUBLIC HOUSING





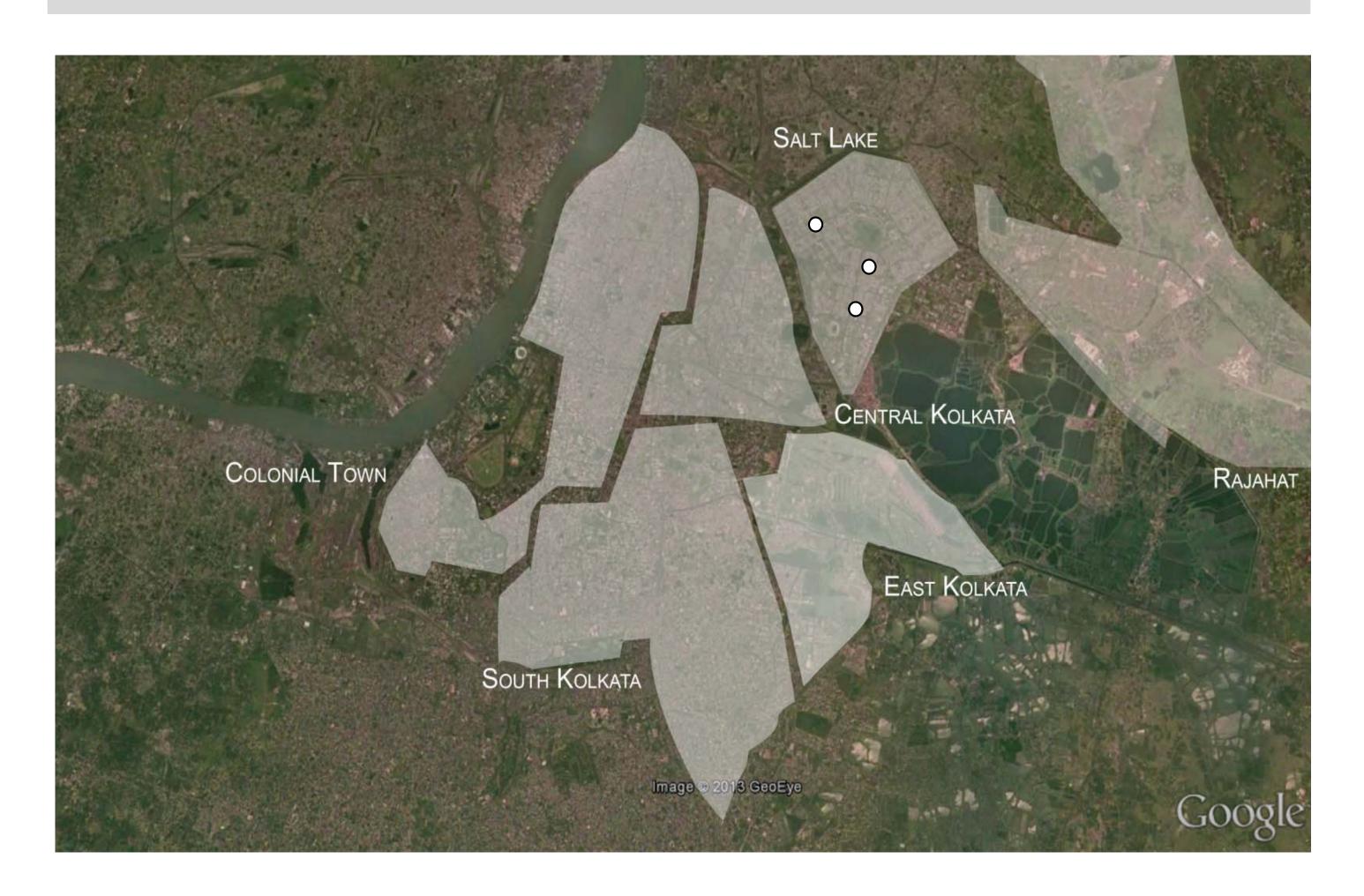




FEATURES

- •4storied apartments mainly
- •Multiple –family in same floor .
- •Rooms are smaller in sizes
- •Adequate gap between buildings channelize the air flow
- •Natural Lighting

INSTITUTIONAL HOUSING



INSTITUTIONAL HOUSING



Time Line: 1950's

Socio Economic Factors: Currently occupied

as Residential, Commercial or Both

Architecture Style: Contemporary

Location: Colonial Town

Comment: Group of people live together in this

type of buildings mainly provided by the

organization.





INSTITUTIONAL HOUSING









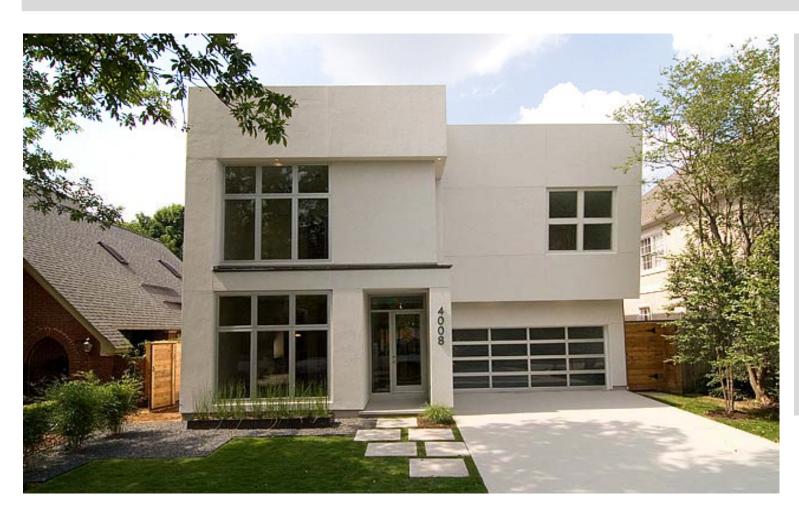
Features

- •Climate Response
- Space Segregation
- •Natural Lighting
- •Mainly hostels made by institution for various users .
- •Generally courtyard in the middle, surrounded by building all around.

TYPE OF HOUSING THROUGHOUT THE CITY



Individual Housing



Time Line: Post 1970's

Socio Economic Factors: Single owner , family

residences.

Architecture Style: .

Location: Contemporary

Comment: Mainly designed for Single family.

The buildings are being clustered to form a

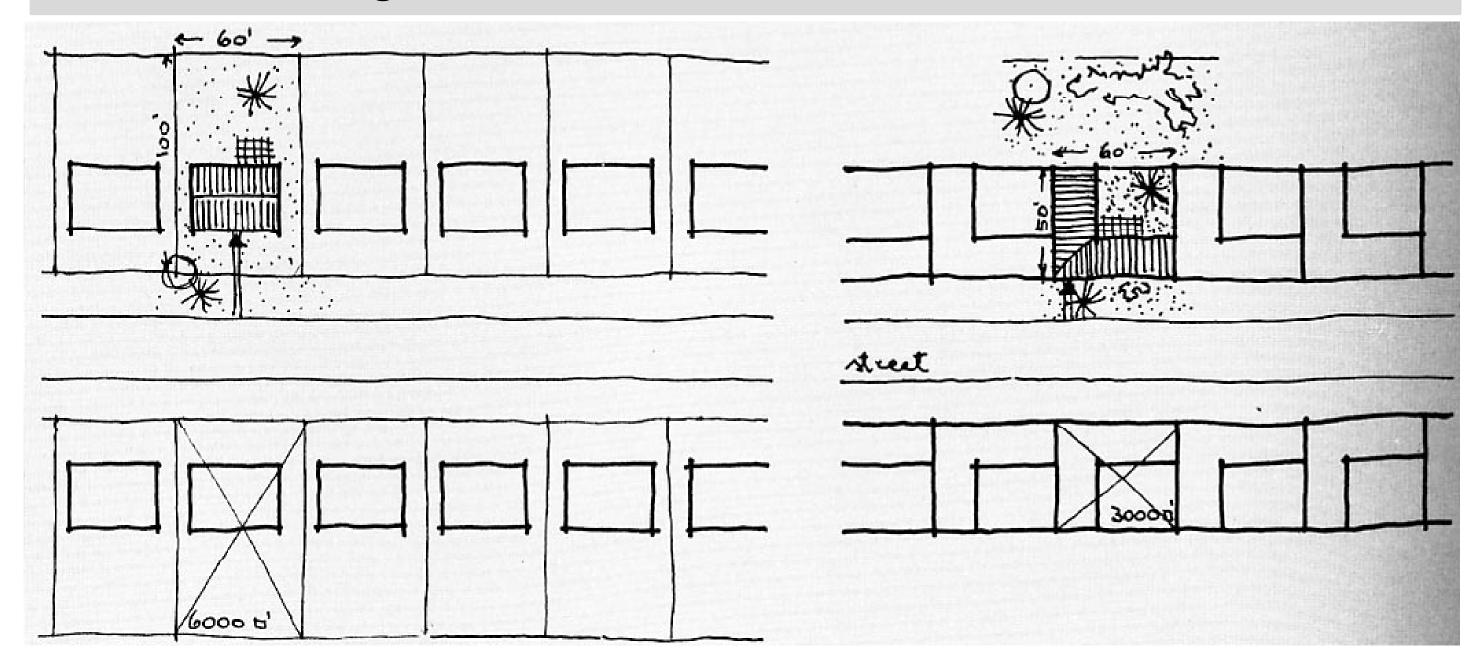
avenue of houses with proper plotting of their

boundaries.





Individual Housing



- •Diagram to show efficiency in land use by using adjoining courtyard houses instead of single family homes.
- •Adaptation from courtyard type housing to Individual housing, placing the building in the middle with open spaces around the building.

Individual Housing



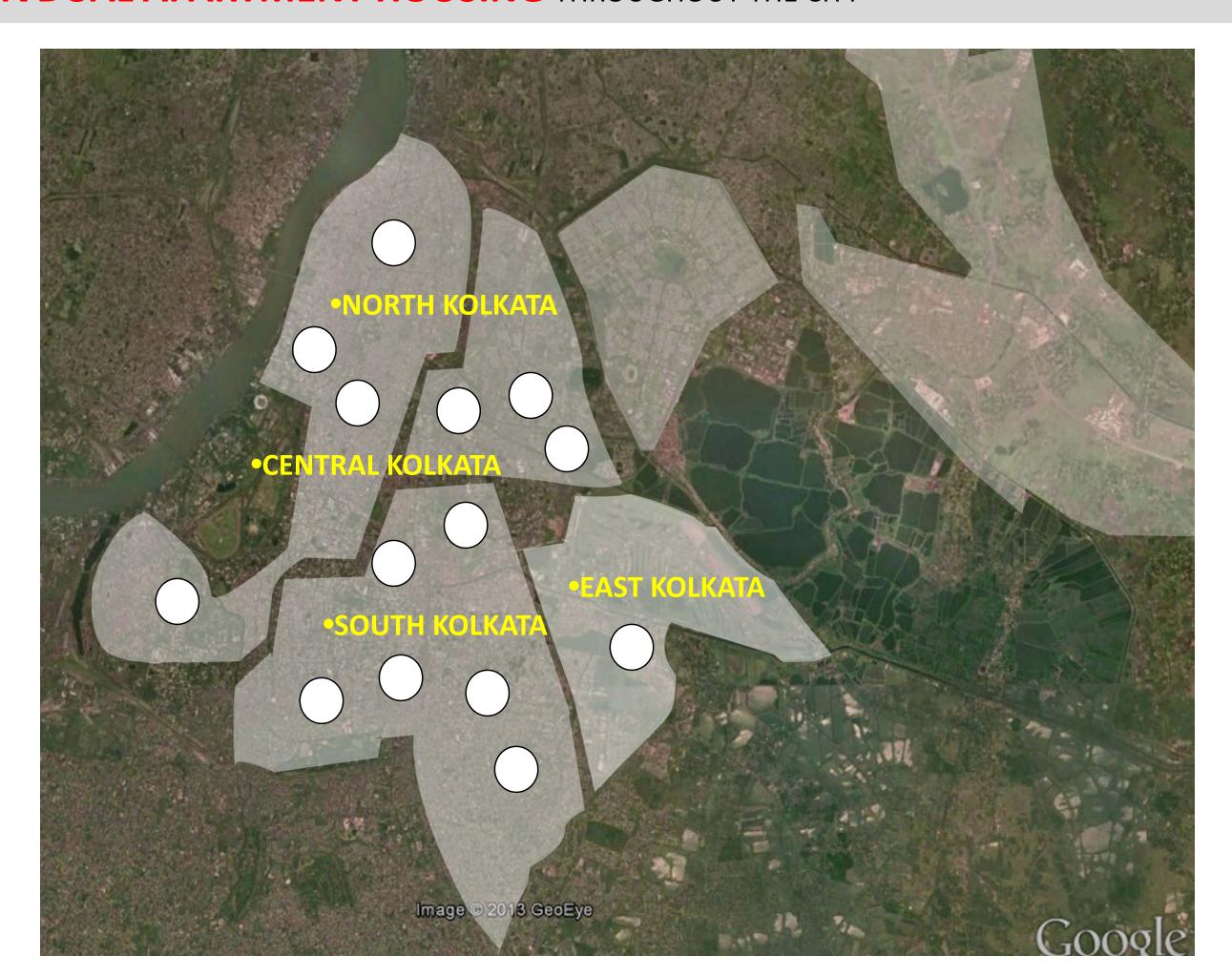


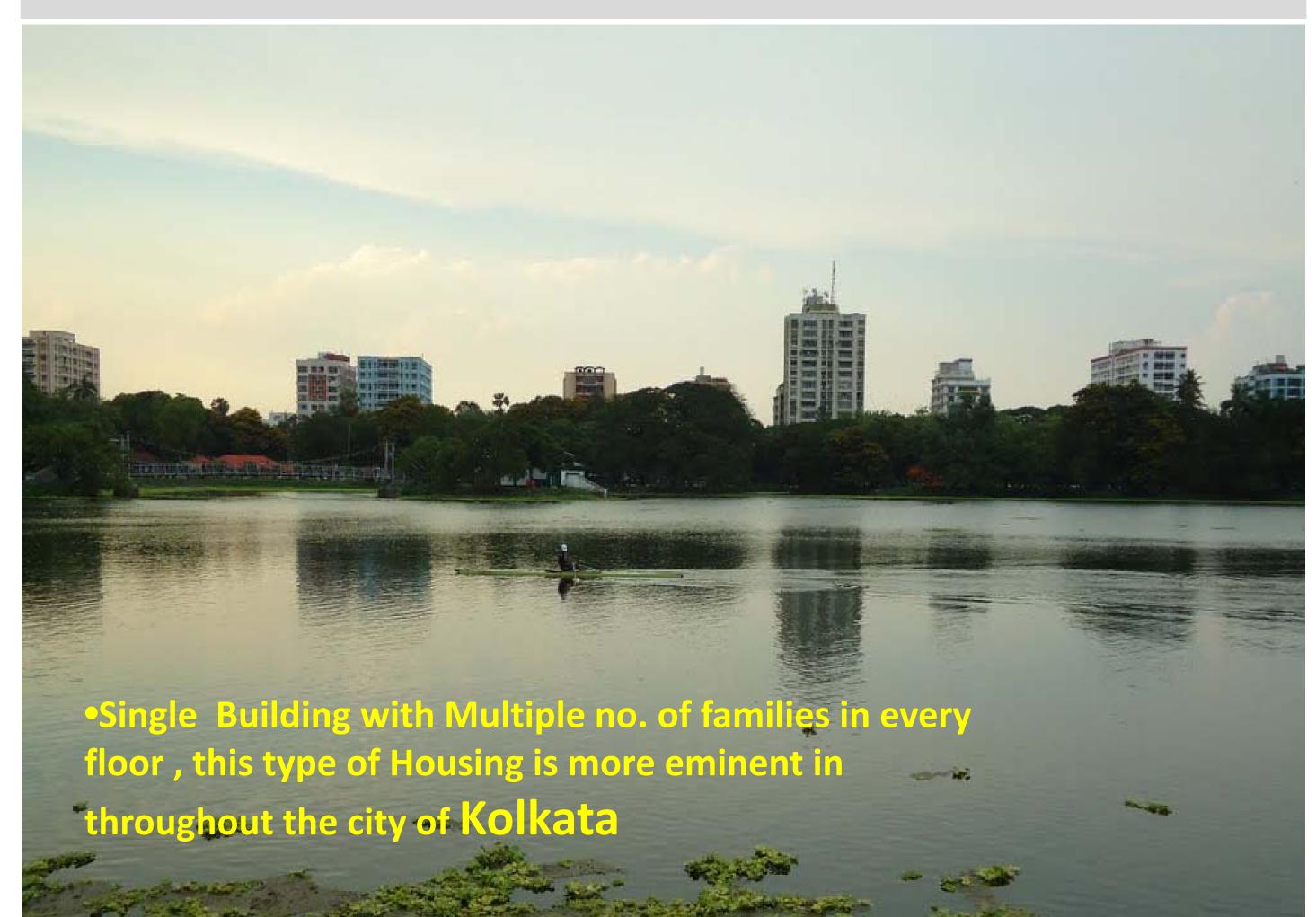




Features

- •Single family Occupancy
- •Height of the building is maximum of 2-3 storey .
- •Open spaces are placed in front and rear of the building .







Time Line: Started from 1990's

Socio Economic Factors: Multi Family

Residences

Architecture Style: Contemporary

Location: All over the city of , Kolkata

Comment: Multiple family occupancies in the same floor . Buildings are being made **high-rises**

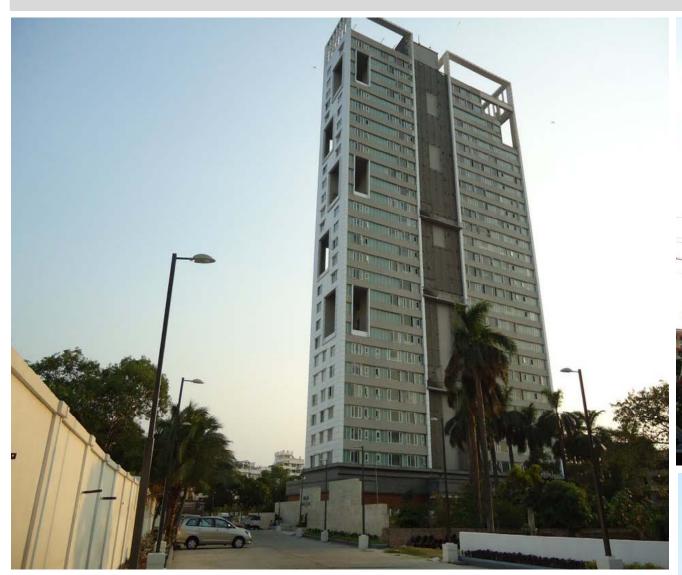
& low rises to accumulate more families .

Generally this type housings are more

prominent in the city.









FEATURES

- 5-12 storied apartments mainly .
- •Multiple –family dwelling in same floor .
- •Rooms sizes vary with the ticket size of the apartment in every floor
- •This type of housing very much prominent in the city till today.





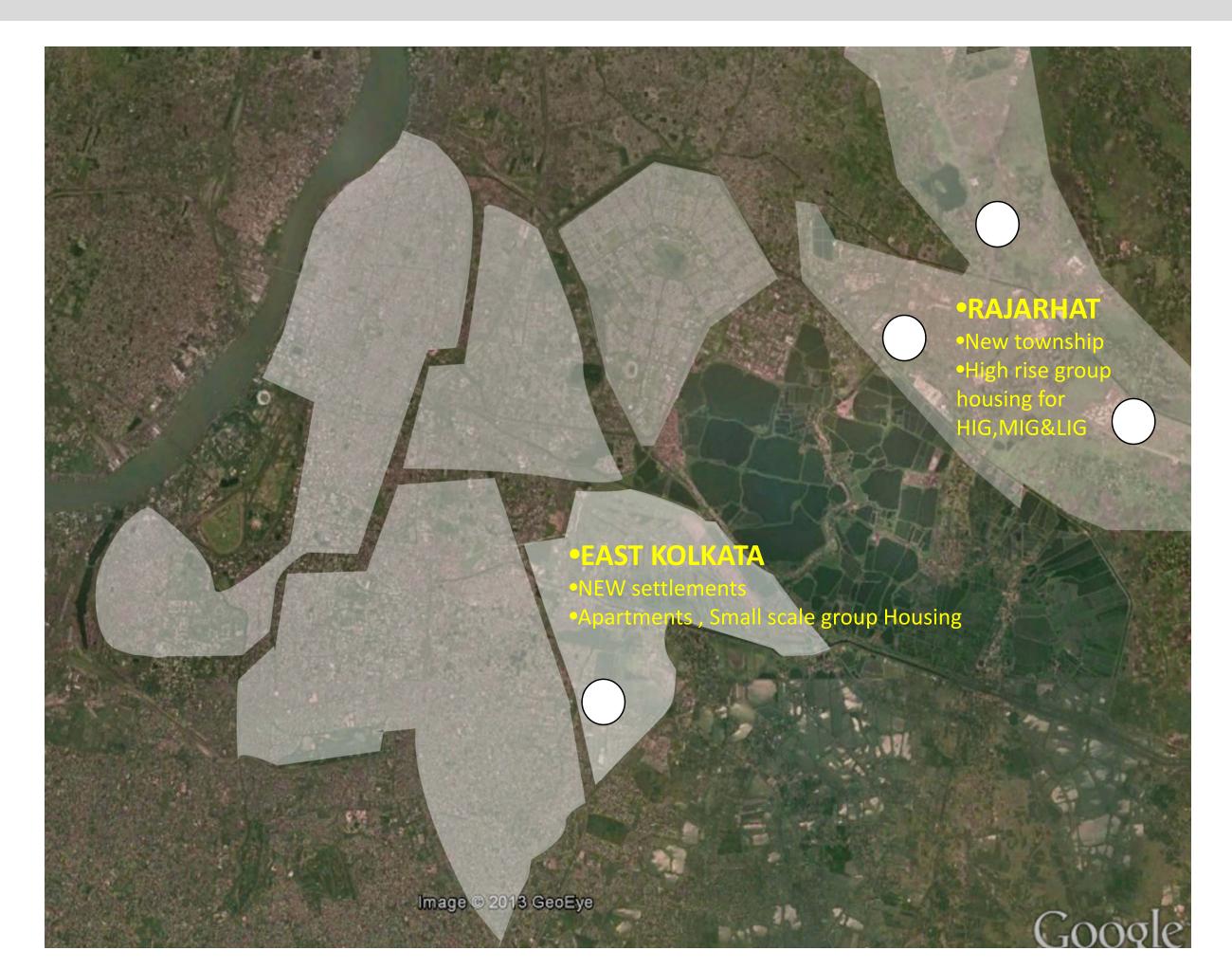








HIGHRISE GROUP HOUSING IN THE CITY















Time Line: 21 Century

Socio Economic Factors: Multi Family

Residences In a Single Site.

Architecture Style: Contemporary

Location: East Kolkata & Rajarhat Newtown,

Kolkata

Comment: Multiple family occupancies in the same floor. Buildings are being made high-rises to accumulate more families. Generally this type housings are being carried out in the city by the private developers.













- apartments mainly.
- dwelling in same floor .
- Rooms sizes vary with the ticket size of the apartment in every floor
- Gaps between the buildings channelize the air flow
- Natural Lighting is very less

