URBAN STUDIO

AMERICAN INTERNATIONAL UNIVERSITY

URBAN SURVEY REPORT

ABRAR, ABDULLAH AL (19-40738-1)

MEHBUBA, JANIFER AKHAND (19-39834-1)

SABAH, SADIA AFRIN (19-40910-2)

SITE

SITE : SATARKUL BADDA

AREA : 483 ACRES

POPULATION : 7504

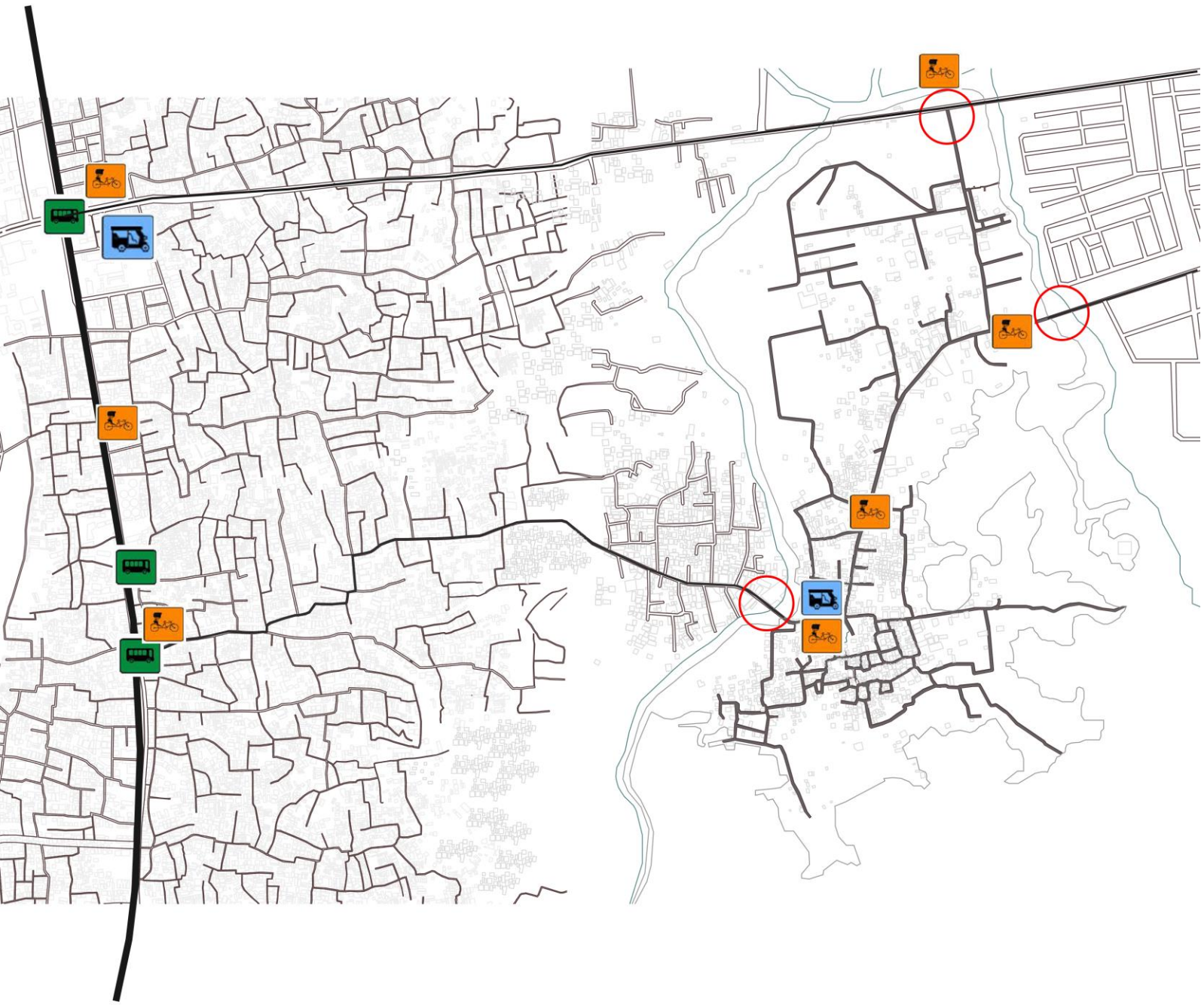
N

0 10 20 30 40 50 M

LOCAL TRANSPORTATION MAP

Legends

- Bus Point
- Rickshaw Point
- Leguna Point

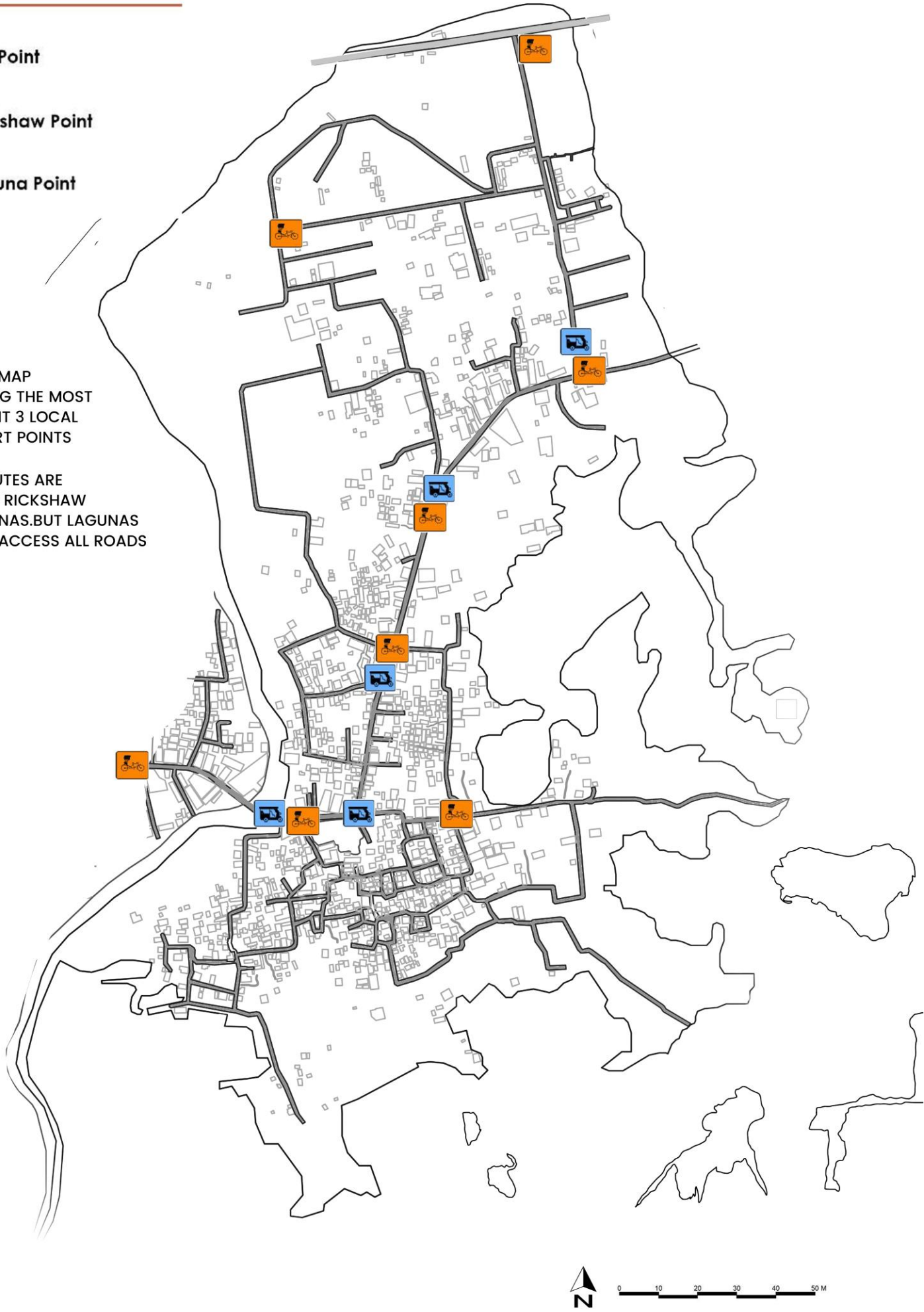


LOCAL TRANSPORTATION MAP

Legends

- Bus Point
- Rickshaw Point
- Leguna Point

- HERE IS A MAP INDICATING THE MOST IMPORTANT 3 LOCAL TRANSPORT POINTS
- SOME ROUTES ARE SAME FOR RICKSHAW AND LEGUNAS.BUT LAGUNAS CAN NOT ACCESS ALL ROADS



ROUTE MAP

MAJOR ACCESS ROAD

MINOR ACCESS ROAD

HOME ZONE

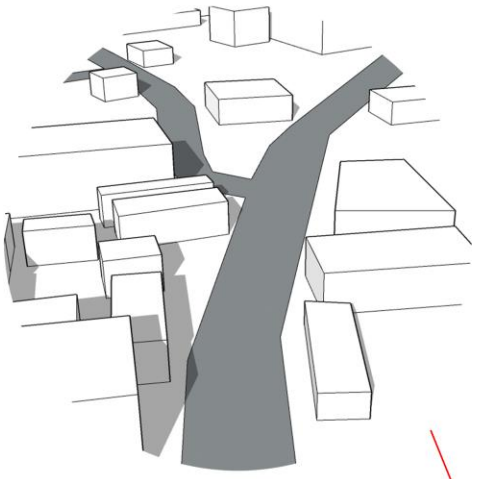
- HERE IS A MAP INDICATING THE ROUTES OF WHOLE SITE
- THE ROUTES ARE DIFFERENTIATED BETWEEN THREE CATEGORIES HERE
- MOSTLY THERE ARE HOME ZONES THEN MINOR ACCESS AND THEN LOCAL DISTRIBUTED ROAD.

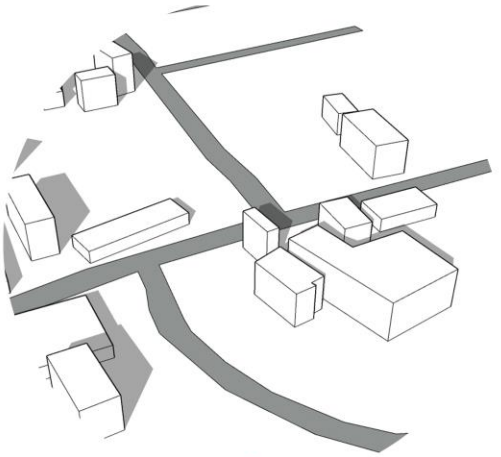
N

0 10 20 30 40 50 M

NODE ANALYSIS

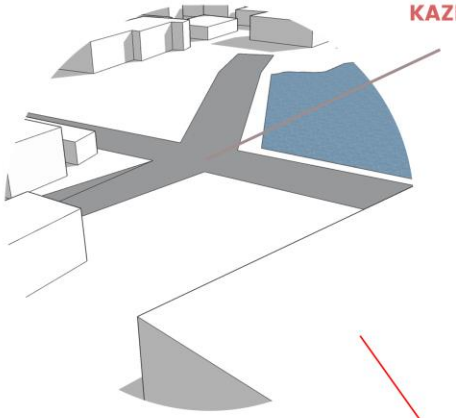
NODE 3





NODE 4

KAZI BARI CIRCLE



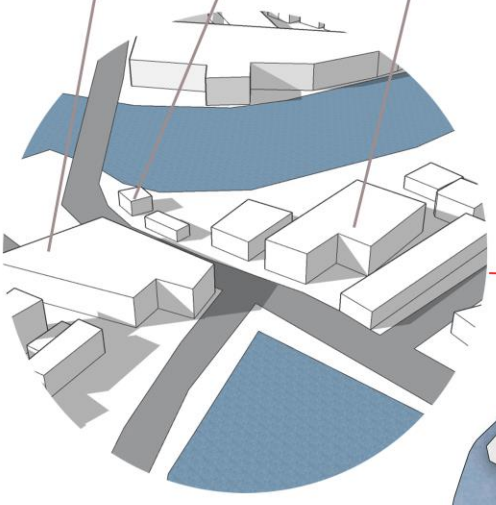
KAZI BARI NODE

NODE 2

SATARKUL RESTAURENT

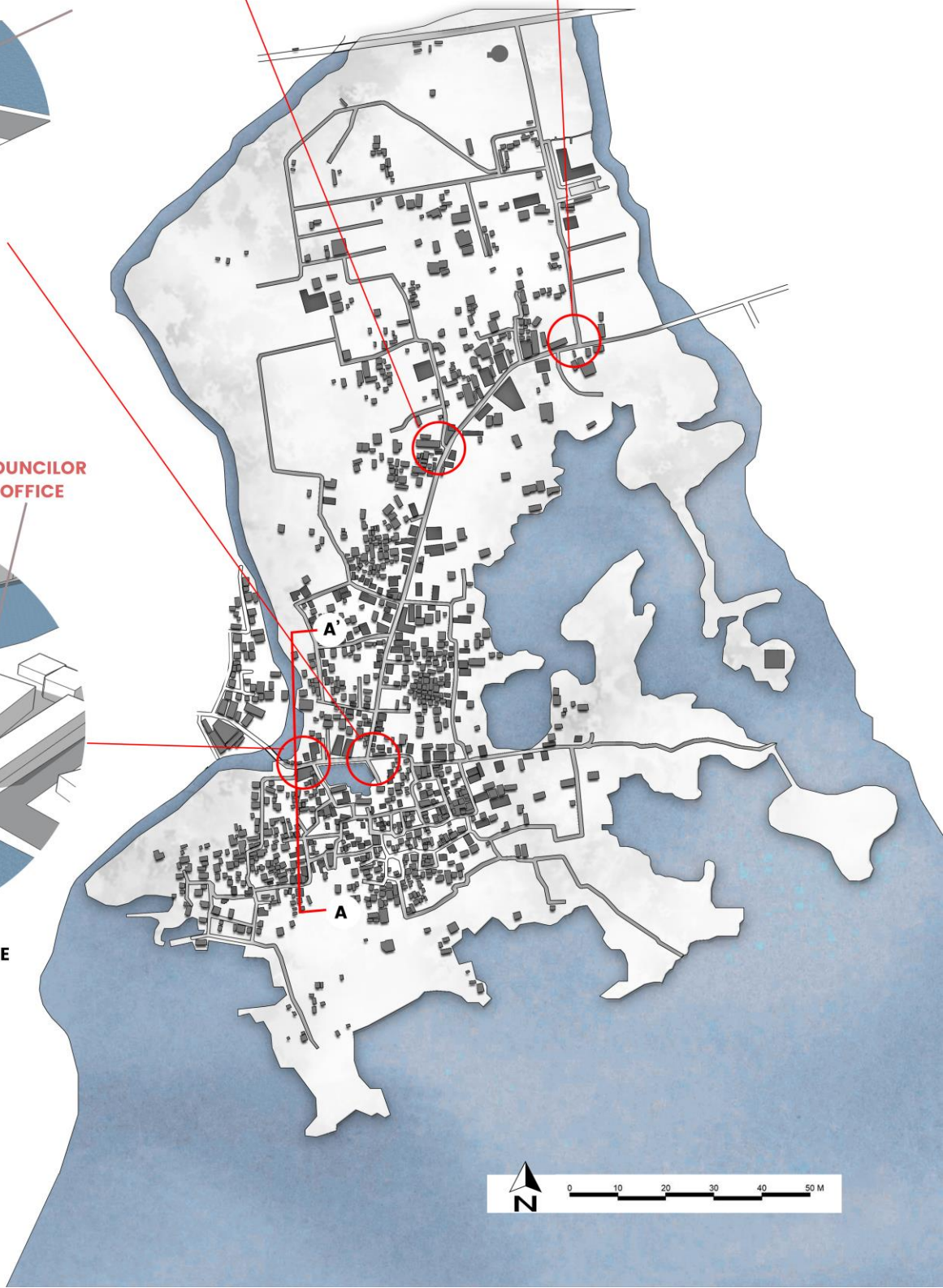
KUTUMBARI RESTAURENT

COUNCILOR OFFICE

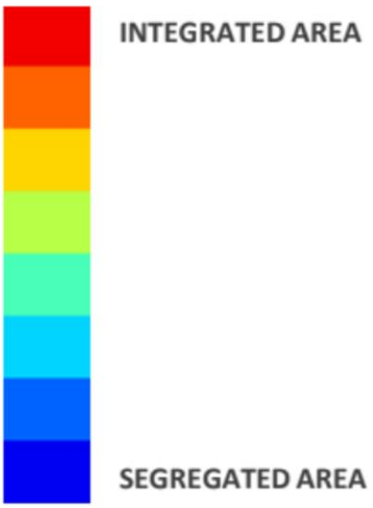


SATARKUL BRIDGE NODE

NODE 1



DEPTH MAP INTENSITY

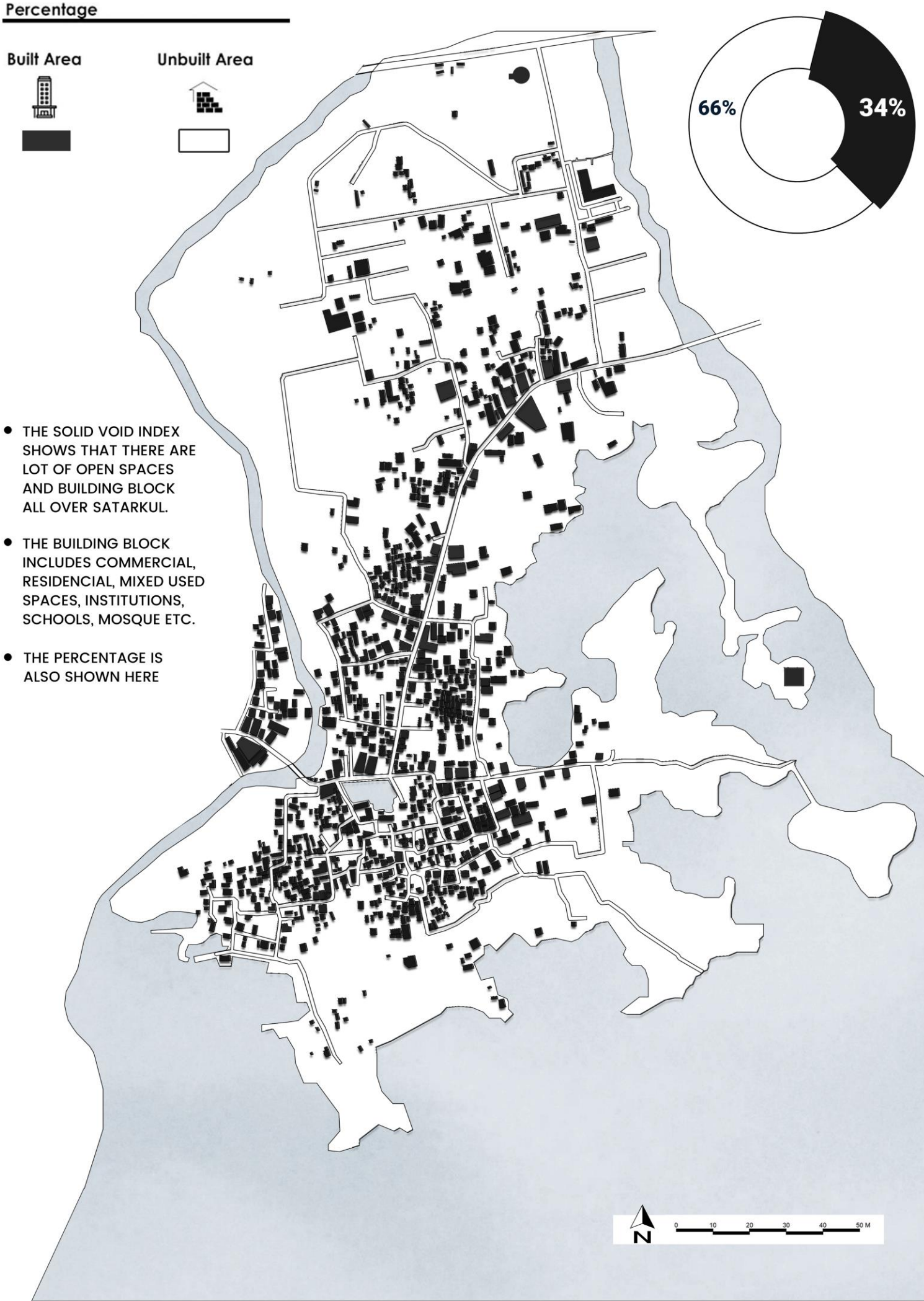


Traffic High
Traffic
Medium Traffic Low
Traffic Very Low
Traffic Very Low

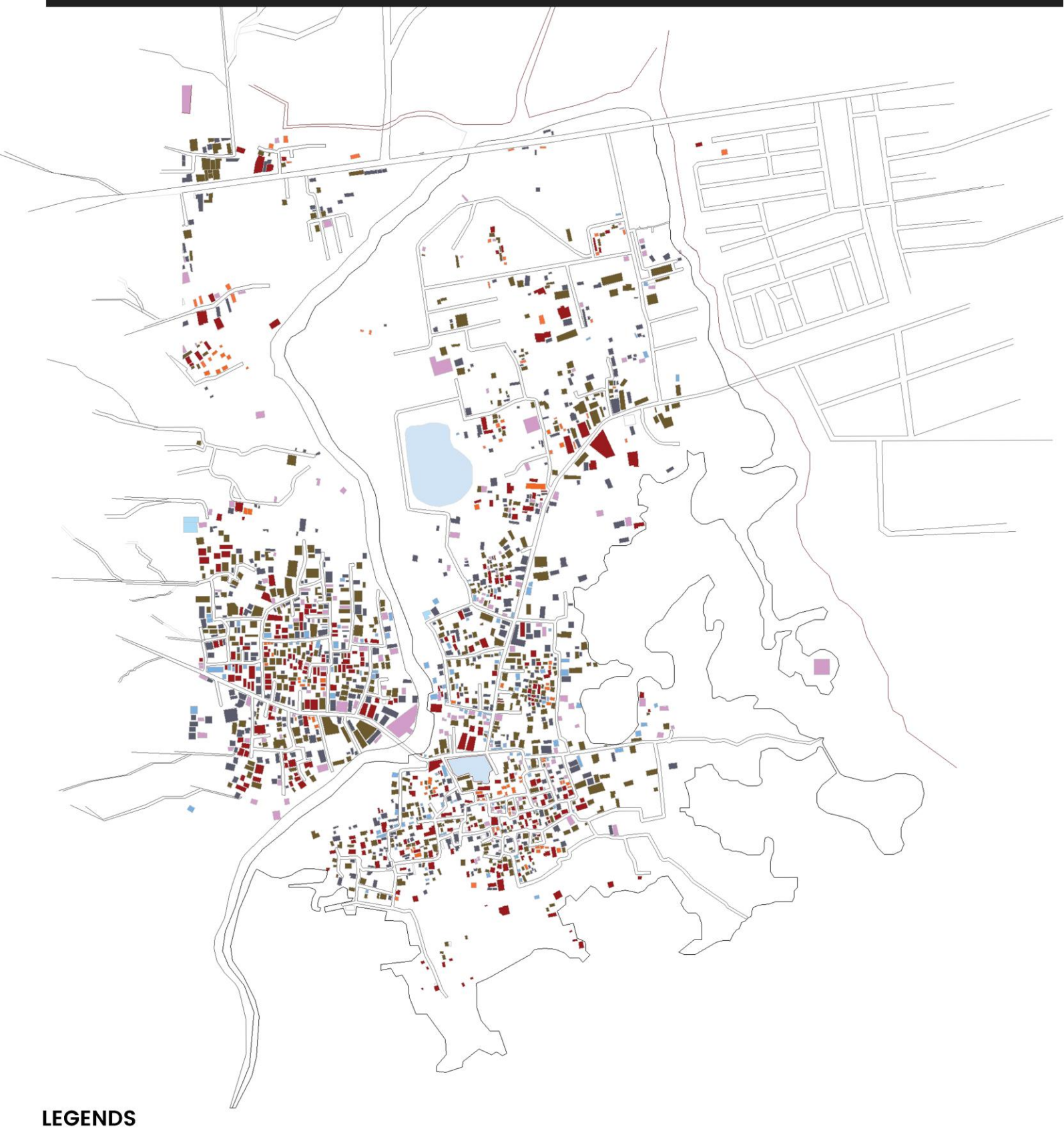
N

0 10 20 30 40 50 M

FIGURE GROUND MAP



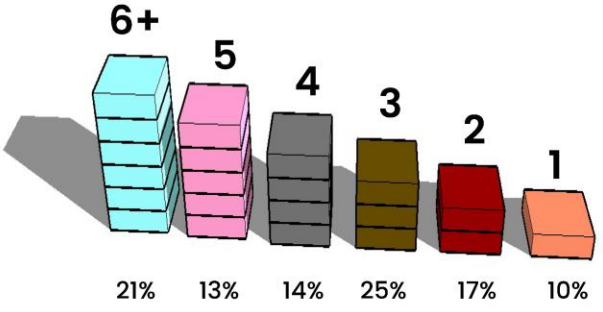
HEIGHT MAP



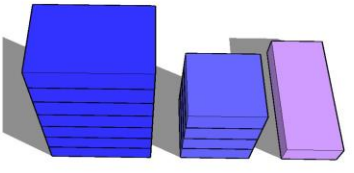
LEGENDS

- ONE STORIED
- TWO STORIED
- THREE STORIED
- FOUR STORIED
- FIVE STORIED
- SIX STORIED AND UP

BUILDING HEIGHT TYPOLOGY AND PERCENTAGE

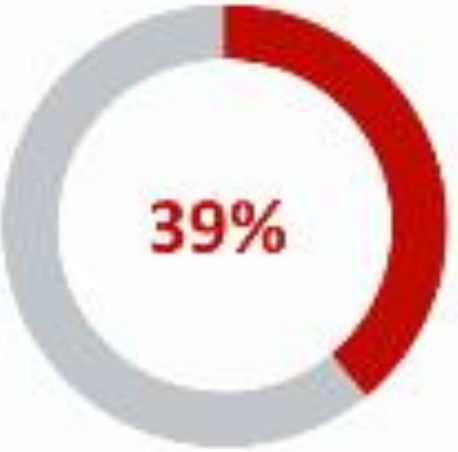


COMMON BULDING FORMS



RECTANGULAR SQUARE LENEAR

URBAN AREA
GRAZING LAND



2001

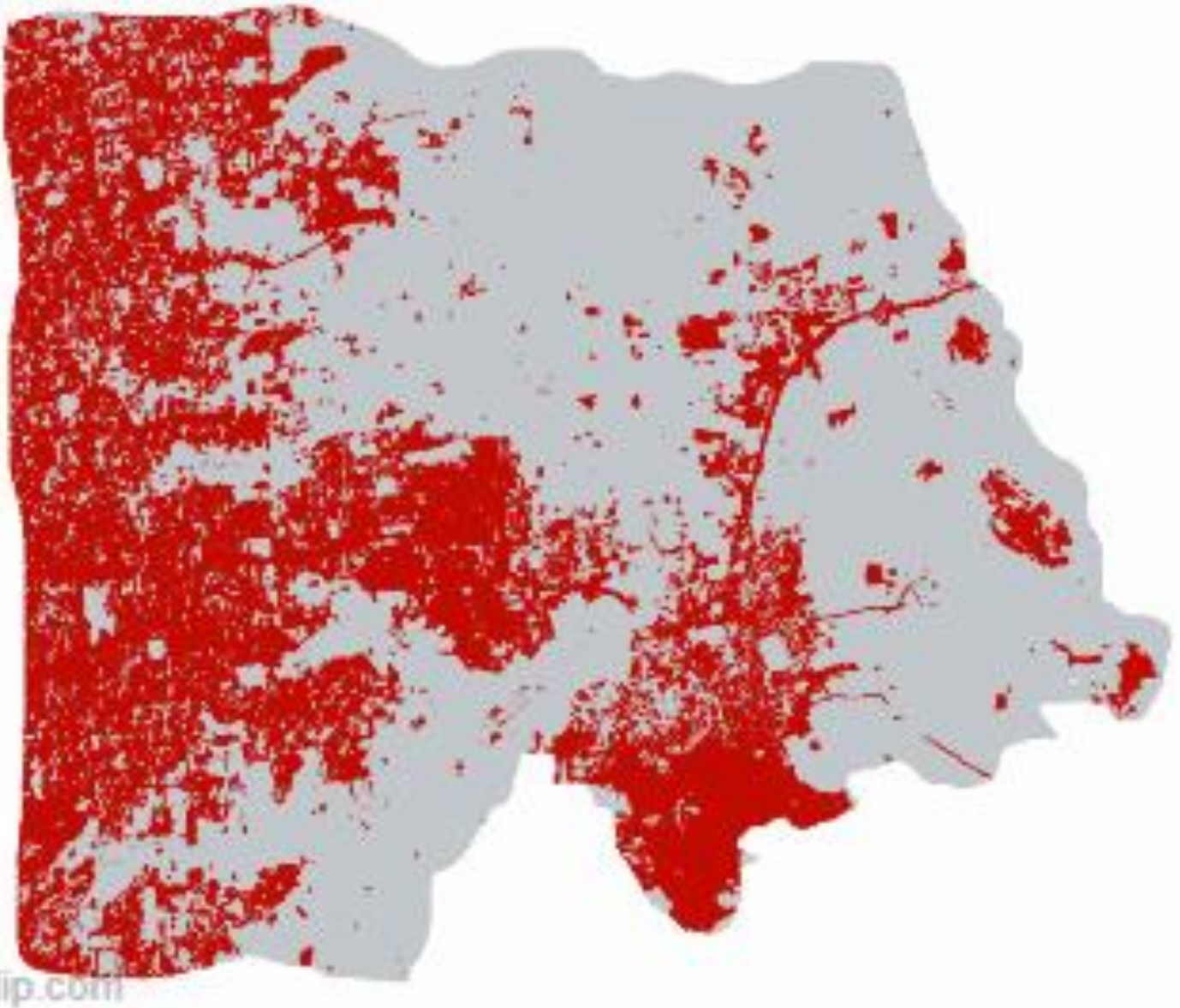
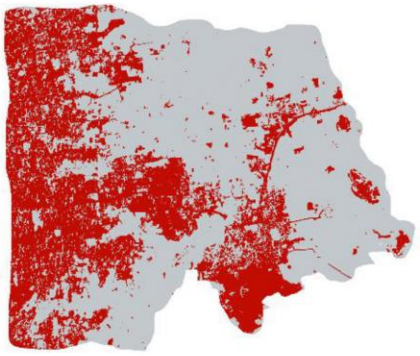
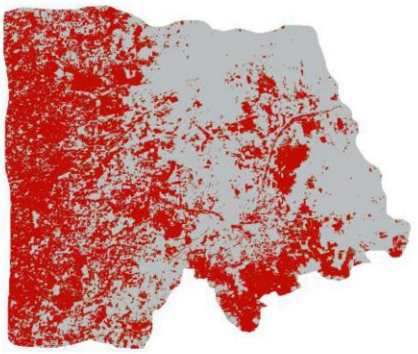


FIGURE GROUND TIMELINE

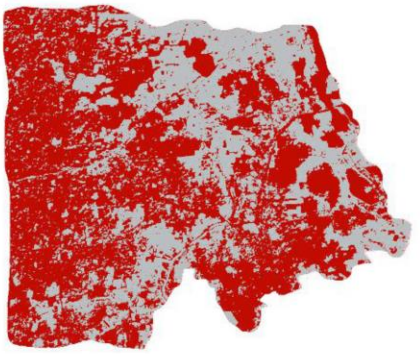
2001



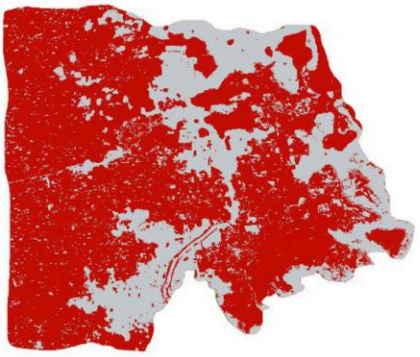
2003



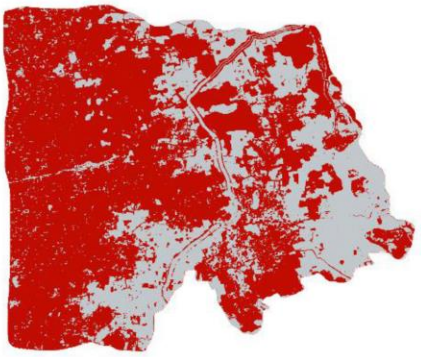
2006



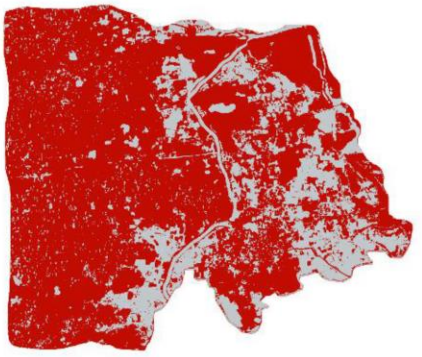
2008



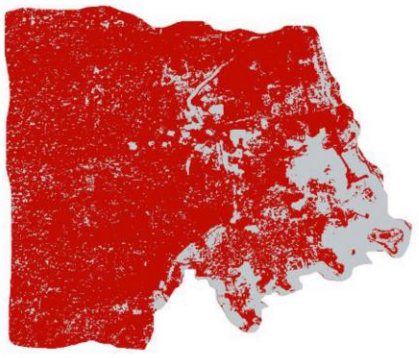
2010



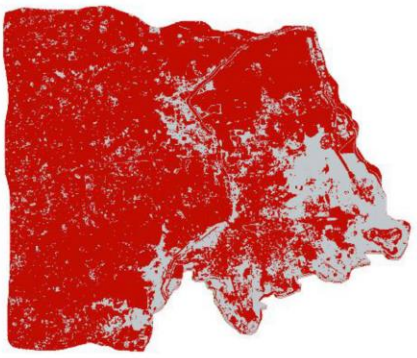
2013



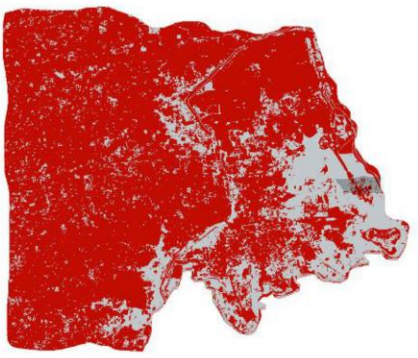
2018

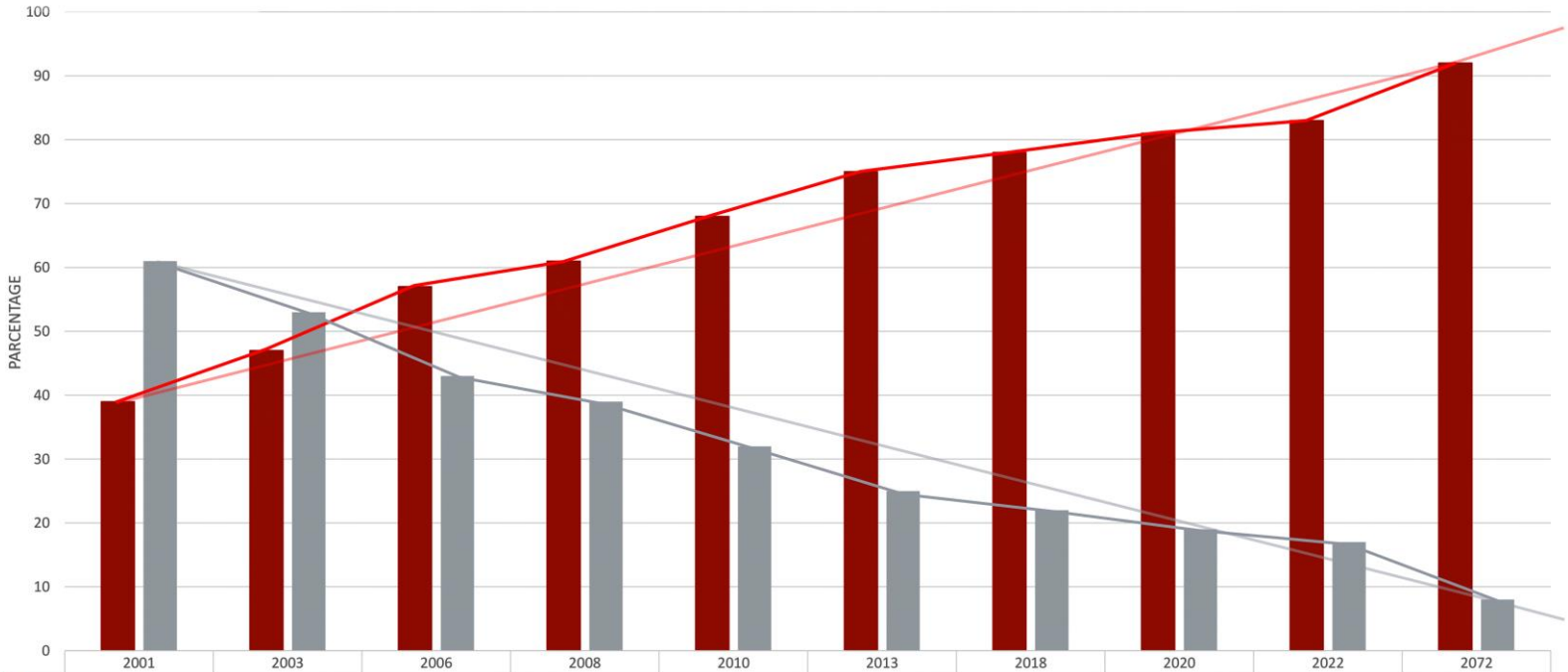


2020



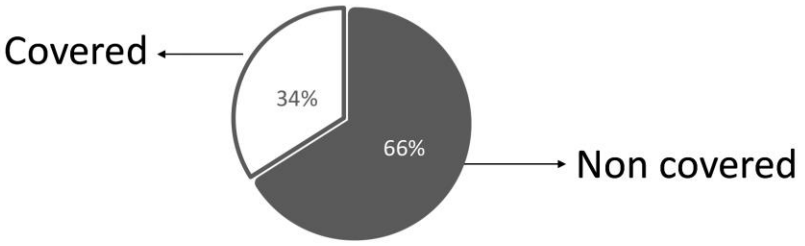
2022

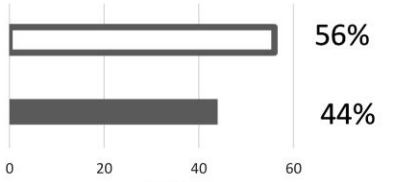


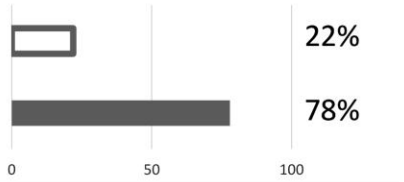


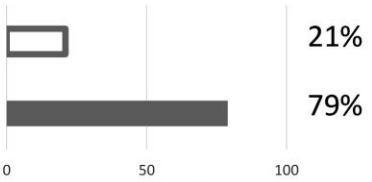
	2001	2003	2006	2008	2010	2013	2018	2020	2022	2072
SOLID	39	47	57	61	68	75	78	81	83	92
VOID	61	53	43	39	32	25	22	19	17	8

DENSITY OF SATARKUL

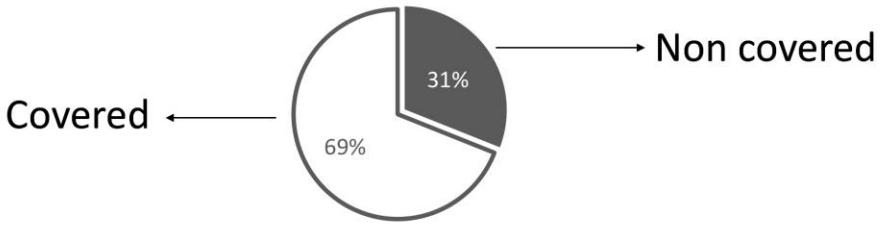


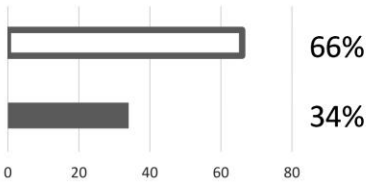


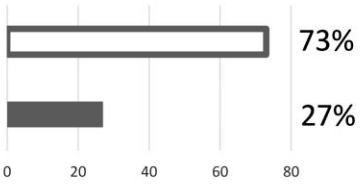


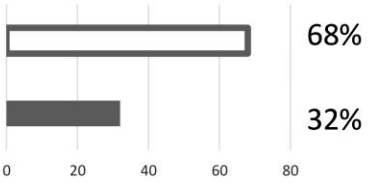


DENSITY OF BADDA









FLORA AND FAUNA

Banyan Tree
Grows up to 20 Meter (62 Feet)

Jhau Tree
Grows up to 15 Meter (50 Feet)

MahagoniTree
Grows up to 17 Meter (57 Feet)

Park

Dipterocarpus
Grows up to 13 Meter (40 Feet)

Mango Tree
Grows up to 15 Meter (46 Feet)

Jack fruit Tree
Grows up to 12 Meter (38 Feet)

Coconut Tree
Grows up to 17 Meter (50 Feet)

Jujube Tree
Grows up to 12 Meter (36 Feet)

Banana Tree
Grows up to 8 Meter (24 Feet)

Neem Tree
Grows up to 8 Meter (24 Feet)

Road

Black Berry Tree
Grows up to 10 Meter (30 Feet)

Papaya Tree
Grows up to 8 Meter (25 Feet)

GREEN AREA

WILD ANIMALS

SQUIRREL

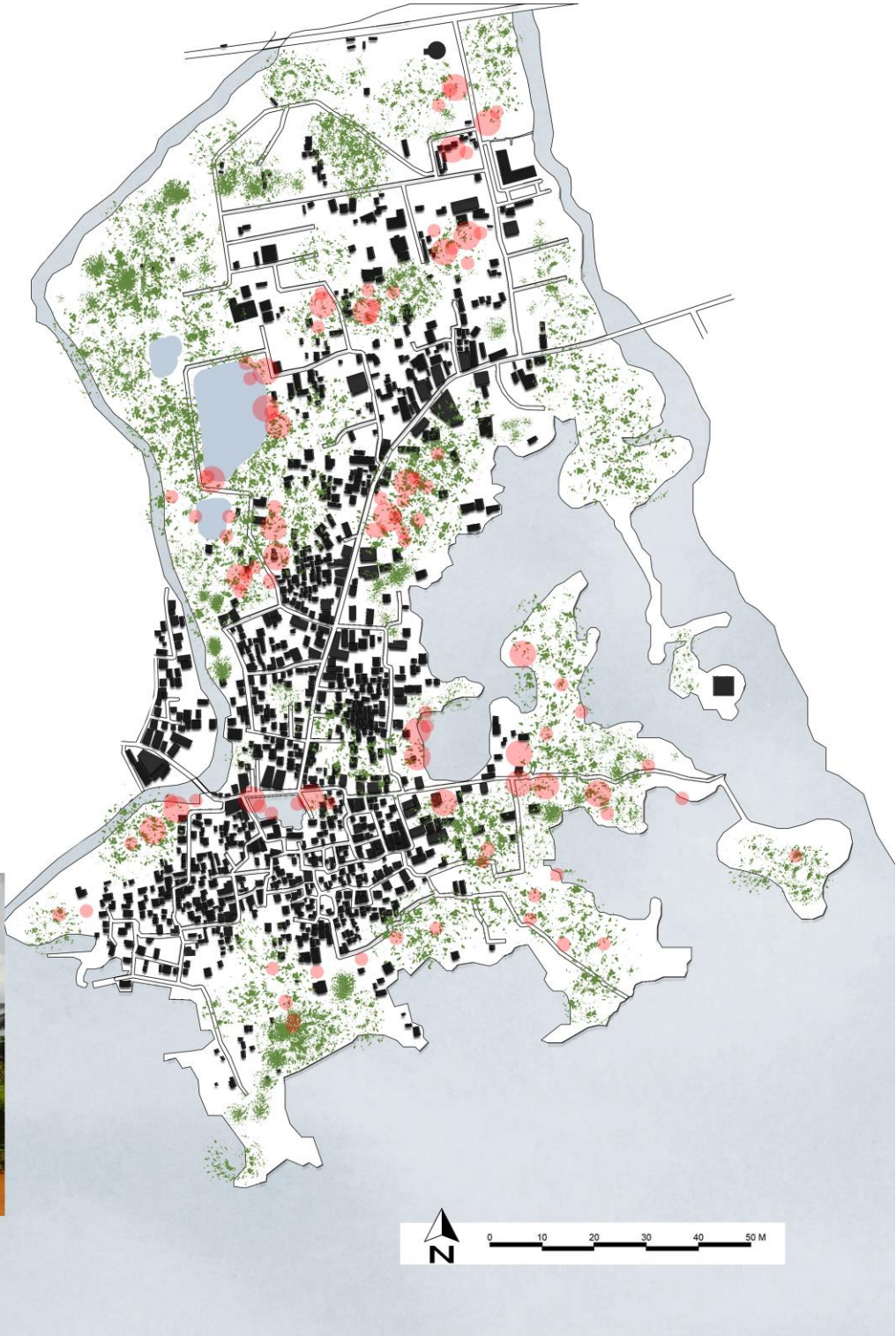
DOG

MOSQUITO

CAT

MOUSE

FROG



PLANTS

Banyan Tree
Grows up to 20 Meter (62 Feet)

Mango Tree
Grows up to 15 Meter (46 Feet)

Banana Tree
Grows up to 8 Meter (24 Feet)

Jhau Tree
Grows up to 15
Meter (50 Feet)

Jack fruit Tree
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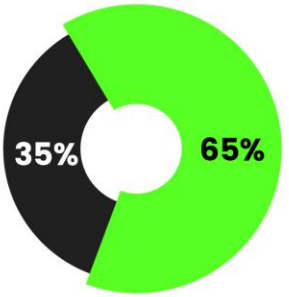
Jujube Tree
Grows up to 12 Meter (36 Feet)

Papaya Tree
Grows up to 8 Meter (25 Feet)

AGRO LANDSCAPES

OWN FOOD

FOR SALE



CARROT

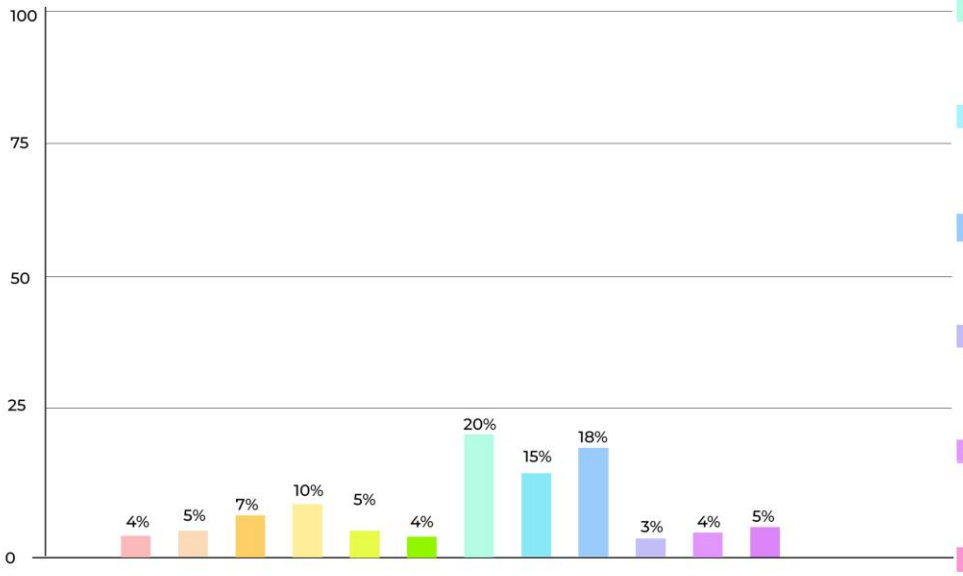
LETTUSE

ONION

RADISH

PEPPER

TOMATO



PAPAYA

PUMPKIN

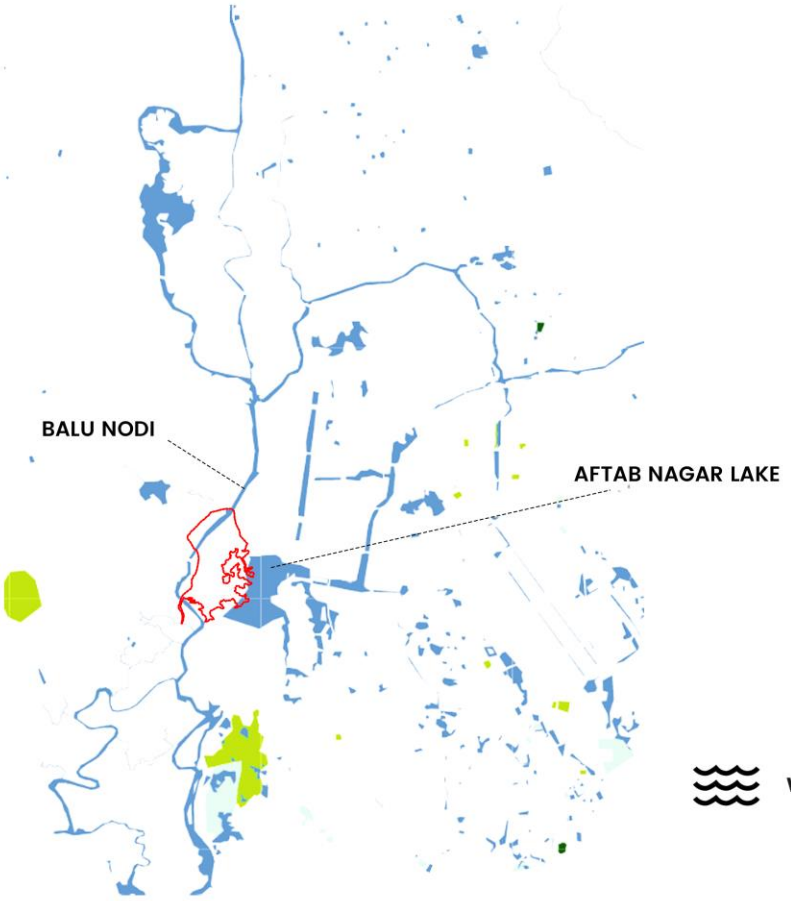
BANANA

TURNIPS

RED AMARANTH

LUFFA

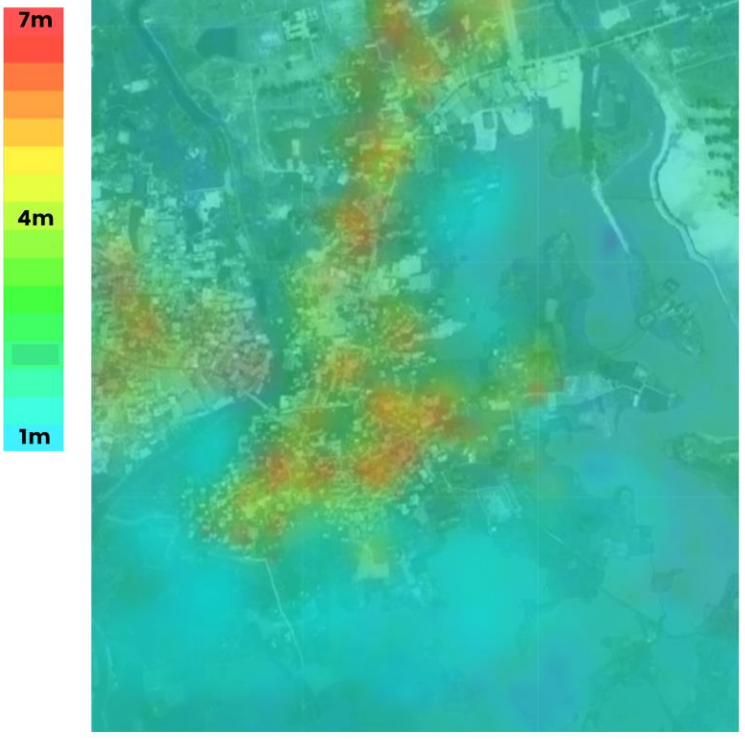
WATERBODY ANALYSIS



2

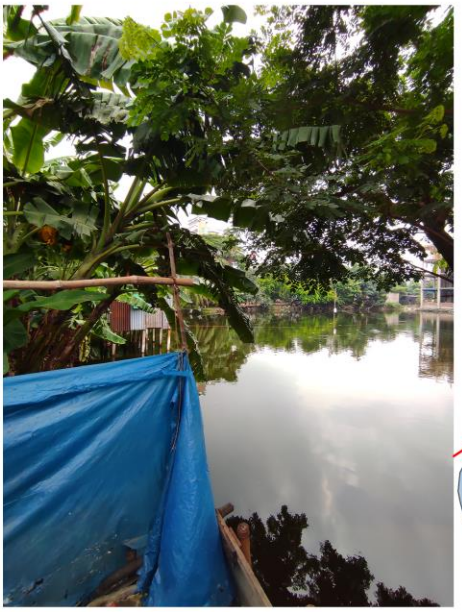
1

WATERBODY 44.75%



TOPOGRAPHYCAL MAP

WATERBODAY CONNECTION



PERMEABILITY

LEGENDS

- HIGH DENSITY
- MIDDIUM DENSITY
- LOW DENSITY

LEGENDS

- RESIDENCE
- COMMERCIAL
- INDUSTRIAL
- MIXED USED
- EDUCATIONAL
- RELIGIOUS

LEGENDS

- PRIMARY ROAD
- SECONDARY ROAD
- HOME ZONED ROAD

STRENGTH

- ACTIVE NODE POINTS
- MORE OPEN SPACE

WEAKNESS

- NO PARKING PLACE FOR VEHICLES.
- THERE IS NO PEDESTRIAN FRIENDLY ROADS.
- ONLY ONE EASY ACCESS TO SITE.
- NO PHYSICAL PERMEABILITY ALONGSIDE THE CANEL AND WATERBODIES.

OPPORTUNITY

- TRAFFIC JAM CAN BE SOLVED WITH PROPER PARKING SPACE.
- WE CAN CREATE A PEDESTRIAN FRIENDLY PATHWAY.
- NO MOTORIZED VEHICLE CAN NOT ENTRY PEDESTRIAN PATHWAYS.
- WE CAN CREAT AN EASY ACCESS FROM BADDA
- CREATE PHYSICAL PERMEABILITY ALONGSIDE THE CANEL AND WATER-BODIES.

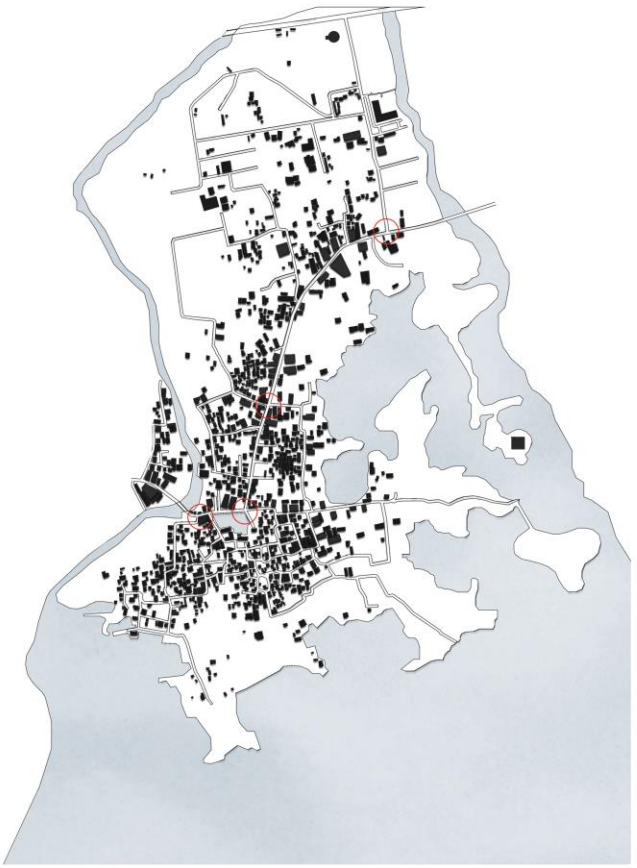
THREAT

- 50 YEARS FROM NOW IF THE STUATION IS NOT CHANGED, DENSITY WILL INCREASE AND CREATE A HEZARDOUS SITUATION.

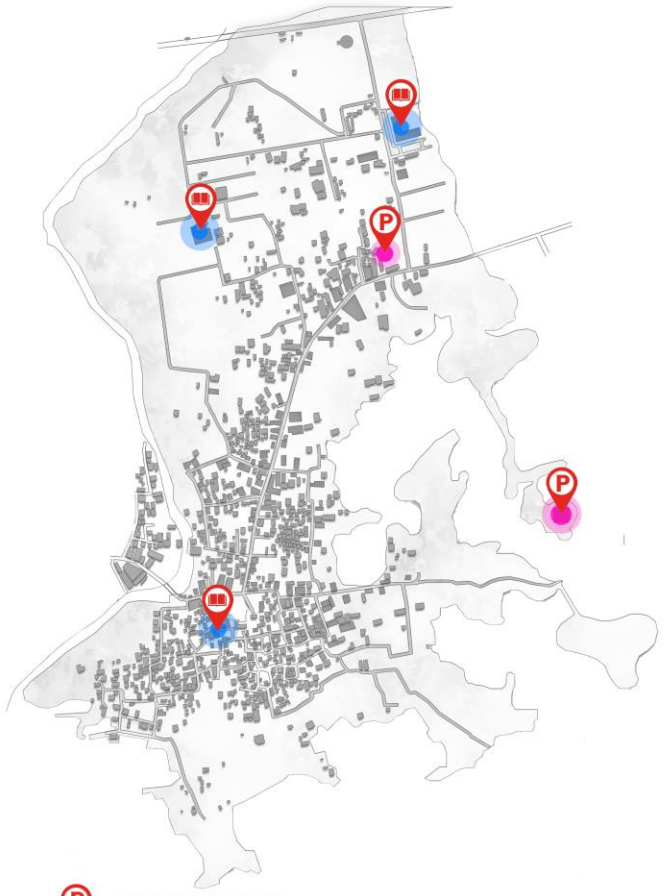
N

0 10 20 30 40 50 M

LEGIBILITY



BUILD URBAN AREA



RECREATIONAL SPACE

EDUCATIONAL LANDMARKS

STRENGTH

- NODES ARE ACTIVES HAVE DISTINCT LANDMARK

WEAKNESS

- ONLY ONE ACCESS ROAD FROM BADDA
- STREET AND PEDESTRIAN NOT SEPARATES
- NO SIGNIFICANT LANDMARKS
- NO CONTINUOUS PATHWAY ALONG THE CANAL

OPPORTUNITY

- WE CAN CREATE ONE MORE ACCESS ROAD FROM BADDA.
- CREATE SEPARATE STREET AND PEDESTRIAN.
- ADD LANDMARK TO CREATE MORE ATTENTION.
- DESIGNED PATHWAY CAN BE BUILT WITH ECOLOGICAL CORRIDOR WITH WATER ACTIVITY RELATED JOBS

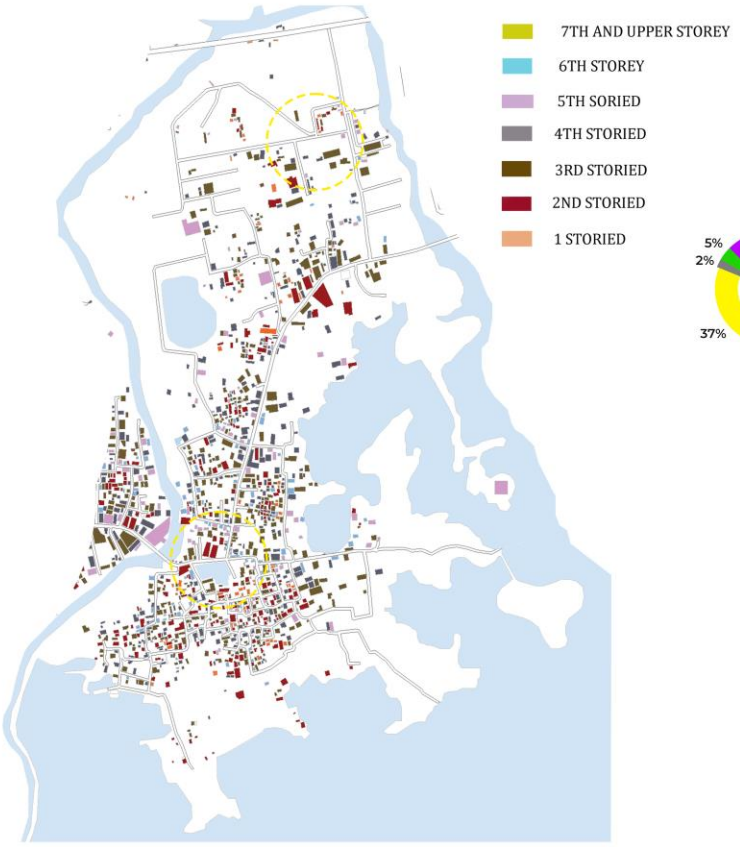
THREAT

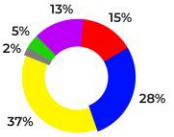
- IN FUTURE IF THE LANDMARK ARE NOT CREATED THEN THE DISTRICT WILL LACK SPATIAL COMMUNICATION THAT WILL LOSE POINT OF REFERENCE OF SATARKUL.

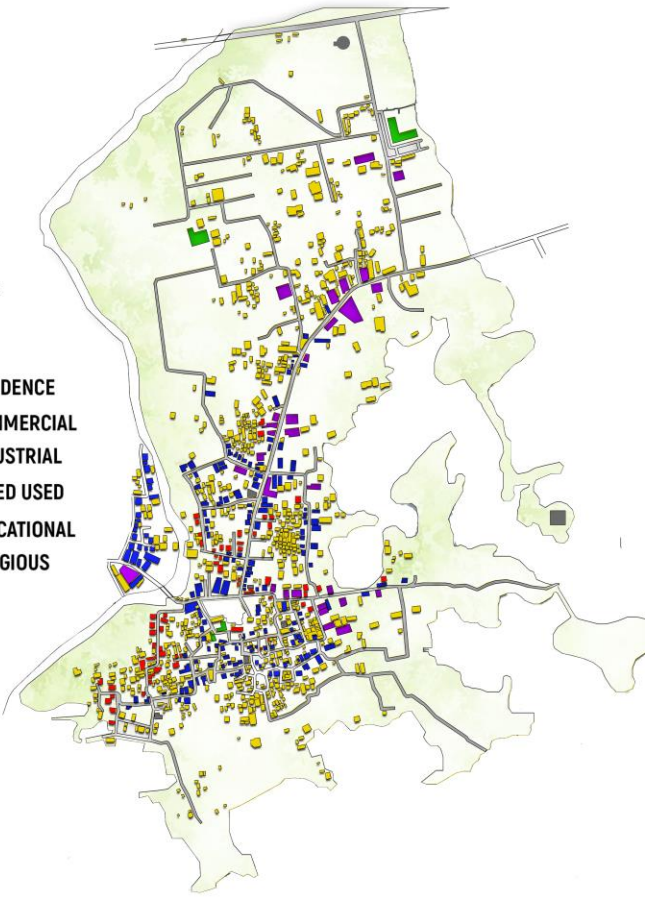
N

0 10 20 30 40 50 M

ROBUSTNESS







STRENGTH

- BUILDING ARE USED FOR MIXED PURPOSE
- ACT AS BOTH COMMERCIAL AND RESIDENTIAL SPACE

WEAKNESS

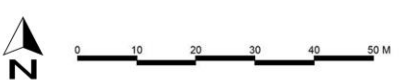
- NO MULTIFUNCTIONAL PUBLIC SPACES
- WATER EDGE NOT USEFUL
- WATER EDGES ARE TOO DIRTY FOR PEOPLE TO ENJOY

OPPORTUNITY

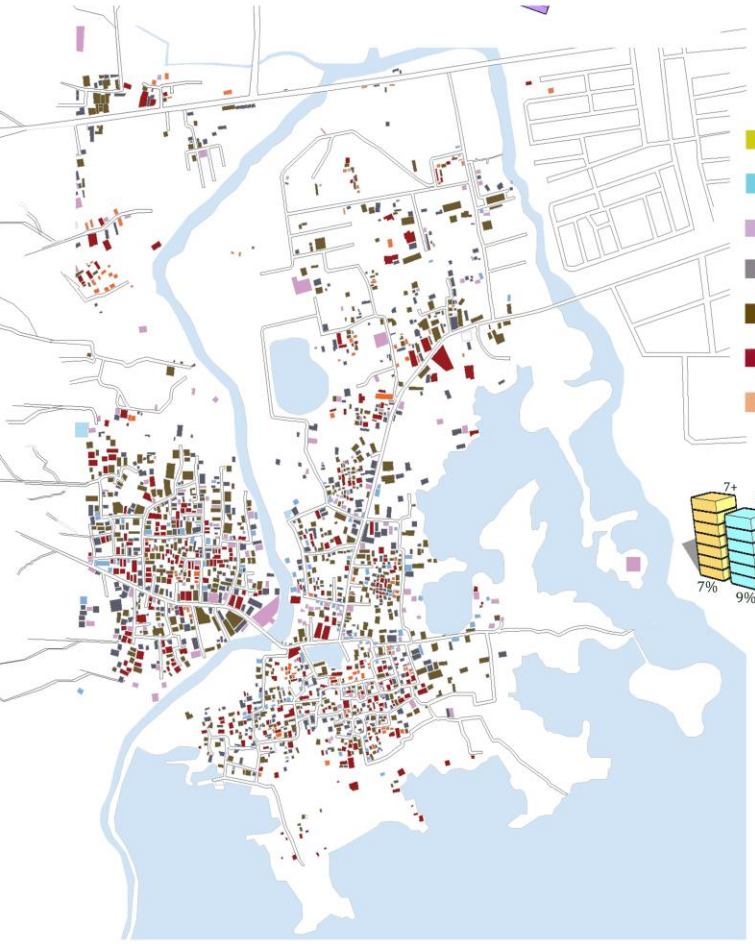
- THE CANAL CAN BE USED FOR MULTIFUNCTIONAL ACTIVITY ZONE
- INCREASE VEGETATION SURROUNDING WATERBODY
- ROOF GARDEN DECREASE THERMAL HEAT

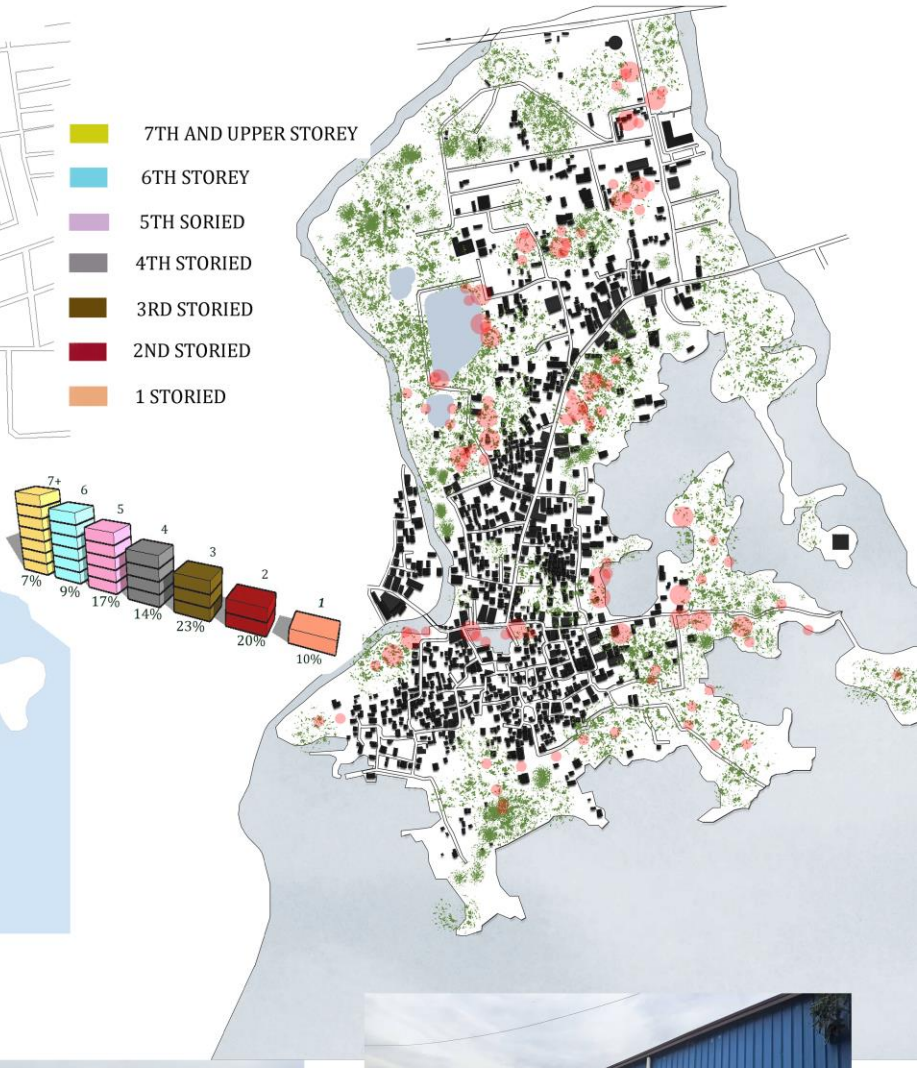
THREAT

- IF WASTE POLLUTED CONTINUES CAUSES CANALS TO BE COMPLETELY BLOCKED.



VERITY





STRENGTH

- MIXED ACTIVITIES
- VARIOUS FORMS OF BUILDING
- GREEN SPACE
- POSITIVE INTERACTION

WEAKNESS

- EXTREME VARIETY CREATES CHAOS
- TIN SHADE BUILDINGS CREATES VISUAL INAPPROPIATENESS.
- TREES ARE DESTROYING.
- PUBLIC REALM ARE NOT WELCOMING.

OPPORTUNITY

- DIFFERENT ACTIVITIES. FORMS AND PEOPLE PROVIDE A RICH PERCEPTUAL MIX.
- WE CAN CREATE A PEDESTRIAN FRIENDLY PATHWAY WITH THE GREEN.
- MORE CONSUMER CHOICE OF LIFESTYLE
- PUBLIC REALM CAN BE PROPOSED SURROUNDING THE CANAL

THREAT

- DESTROYING TREES ARE MAIN THREAT .

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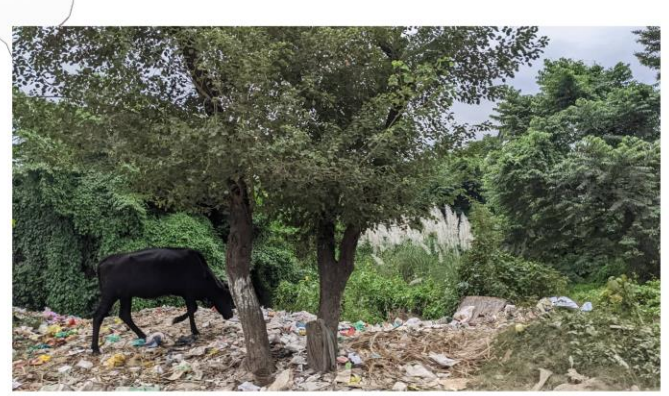
0 10 20 30 40 50 M

RICHNESS



STRENGTH

- WATERBODY AND GREEN
- MORE OPEN SPACE

WEAKNESS

- 55% BAD SMELL AROUND BALU KHAL.
- DRAINAGE WASTES ARE ALSO DEPOSITED BESIDE BALU KHAL.
- 30% OF SOLID WASTES ARE INORGANIC.
- SOME WATERBODY IS NOT VISIBLE BECAUSE OF WASTE.

OPPORTUNITY

- INORGANIC WASTE CAN BE RECYCLED
- IF DRAINAGE SYSTEM IS CLEAN, THERE WILL BE NO BAD SMELL.
- SCOPE OF RECYCLYING WASTE.

THREAT

- IF WASTE MANAGEMENT ARE NOT DONE THEN CO_2 WILL INCREASE

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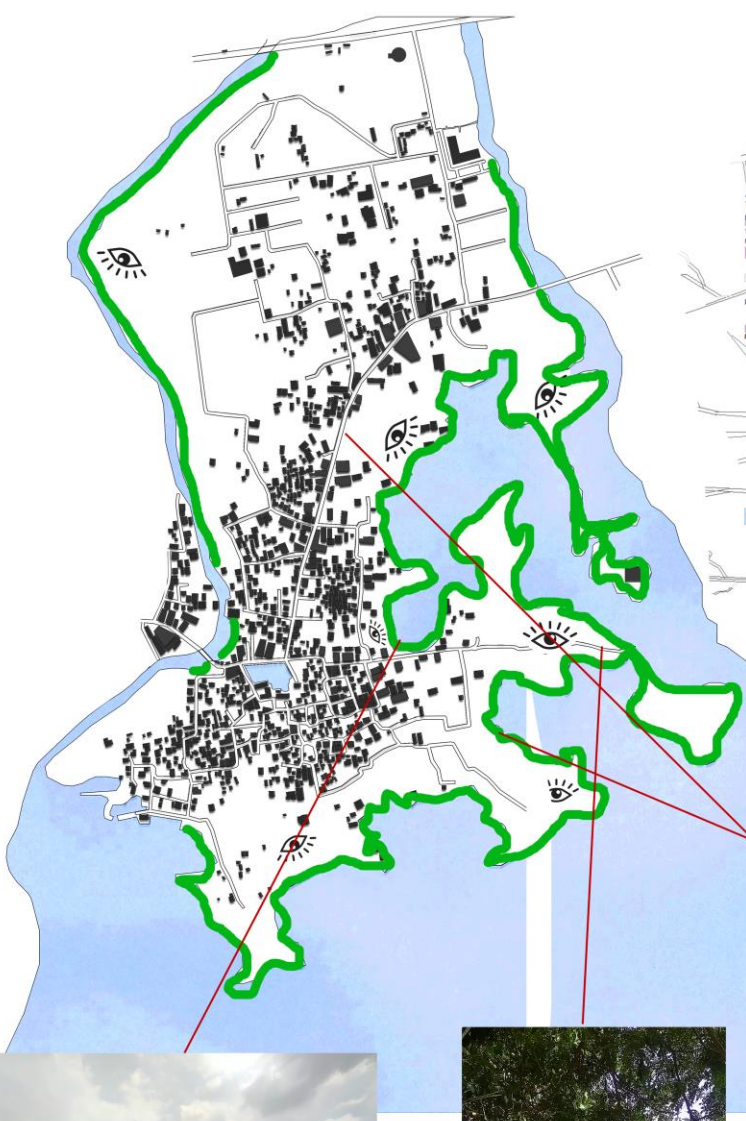
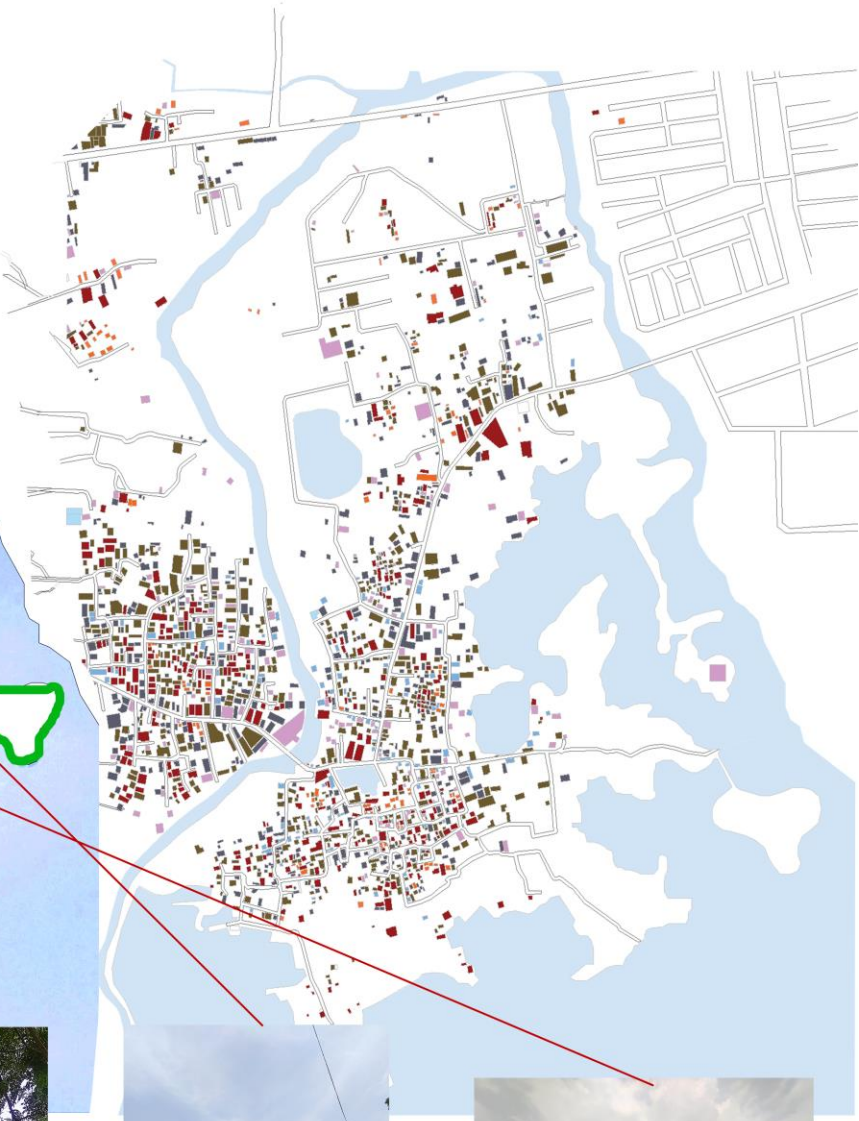
VISUAL APPPROPRIATENESS





STRENGTH

- PEOPLE CAN EASILY INTERPRET WITH THE BOTH SMALL AND LARGE SCALE OF THE BUILDINGS
- MORE OPEN SPACE
- WATERBODY.

WEAKNESS

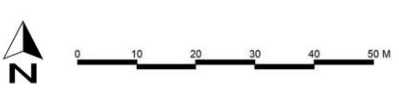
- DESTROYING WATERBODY BY THROWING WASTE.
- THERE IS NO ACCESSABLE SPACE ALONG WITH THE CANAL.
- GREEN SPACE DON'T HAVE PROPER MAINTANENCE.

OPPORTUNITY

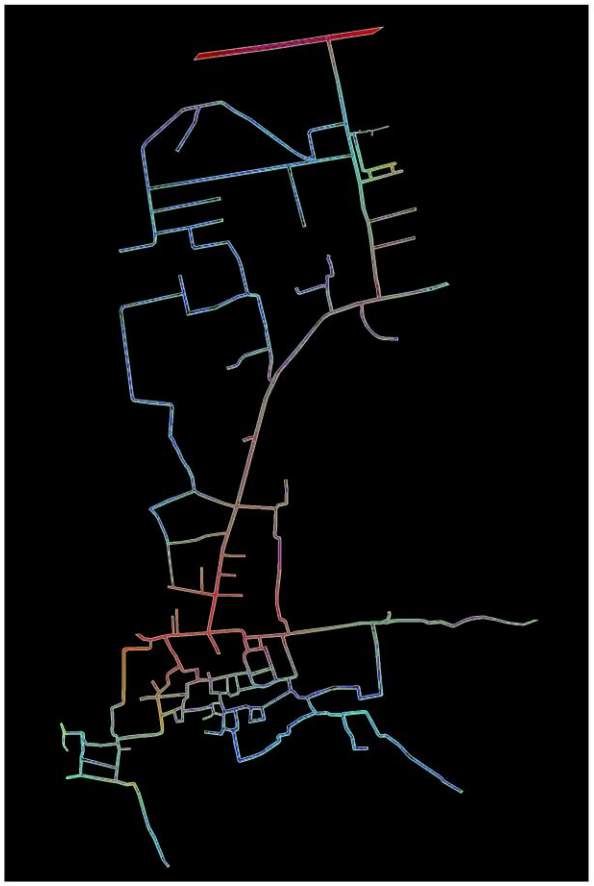
- BREATHING SPACE WILL INCREASING
- INCREASE GREEN VISTA
- NO MOTORIZED VEHICLE CAN NOT ENTRY PEDESTRIAN PATHWAYS.
- BUILDING LOOKS CAN BE REGENERATED
- MORE GREEN SPACE CAN CREATED

THREAT

- WATER POLLUTION CAN POSE A THREAT TO AQUATIC AND HUMAN LIFE



CONSTRAIN MAP



WATER POLLUTION

CRIME SPOT

SOUND POLLUTION

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DESIGN PHASE

OPPORTUNITY MAP

GREEN CORRIDOR BESIDE WATERBODY

HOSPITAL

WATER TRANSPORTATION

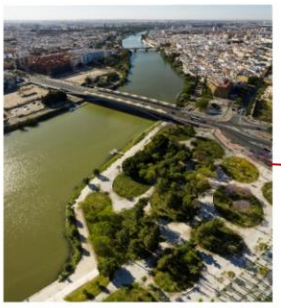
BRIDGE CONNECTION

WASTE RECYCLE

CYCLE LANE

CONNECTING WATERBODY

PUBLIC REALM



Magallanes Park
SEVILLA, SPAIN

Milan Public Realm,
PARIS

The BIG U
New York

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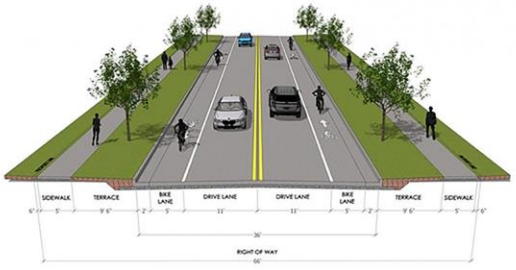
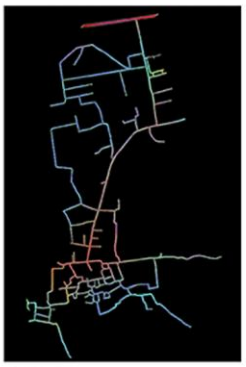
ROAD BASED DEVELOPMENT

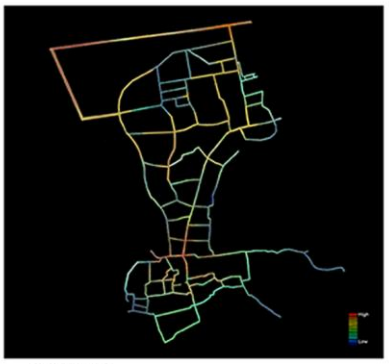
EXISTING ROAD

DEMOLISHED ROAD





EXISTING SITE



PROPOSED AREA

PROPOSED ROAD

WATERBODY CONNECTION

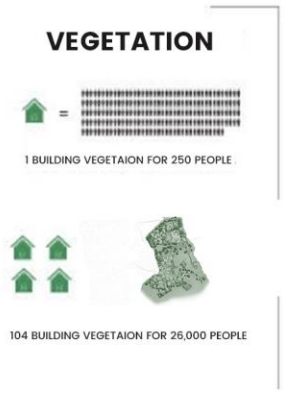
EXISTING WATER

WATER CONNECTION MAP

PROPOSED WATER MAP

AGRO BASED DEVELOPMENT

DURING THE FIRST PHASE, WE HOPE TO ADDRESS FLOODING CONCERNS BY NATURALIZING THE WATER'S EDGE, ALLOWING FOR SEAWATER RISE. THIS AREA WOULD BECOME A WALKABLE NATURAL PARK AREA WITH PROGRAMMED SPACES AND WETLAND HABITATS. DURING PHASE TWO, UTILIZING THE PROFITS FROM CANNABIS PRODUCTION, FLOATING INFRASTRUCTURE WILL BE ADDED THAT WILL RISE AND FALL WITH CHANGING WATER LEVELS. THIS WILL ALSO BE APPLIED TO ANY NEW CONSTRUCTION ALONG OR NEAR THE WATER.



ROOF TOP VEGETATION

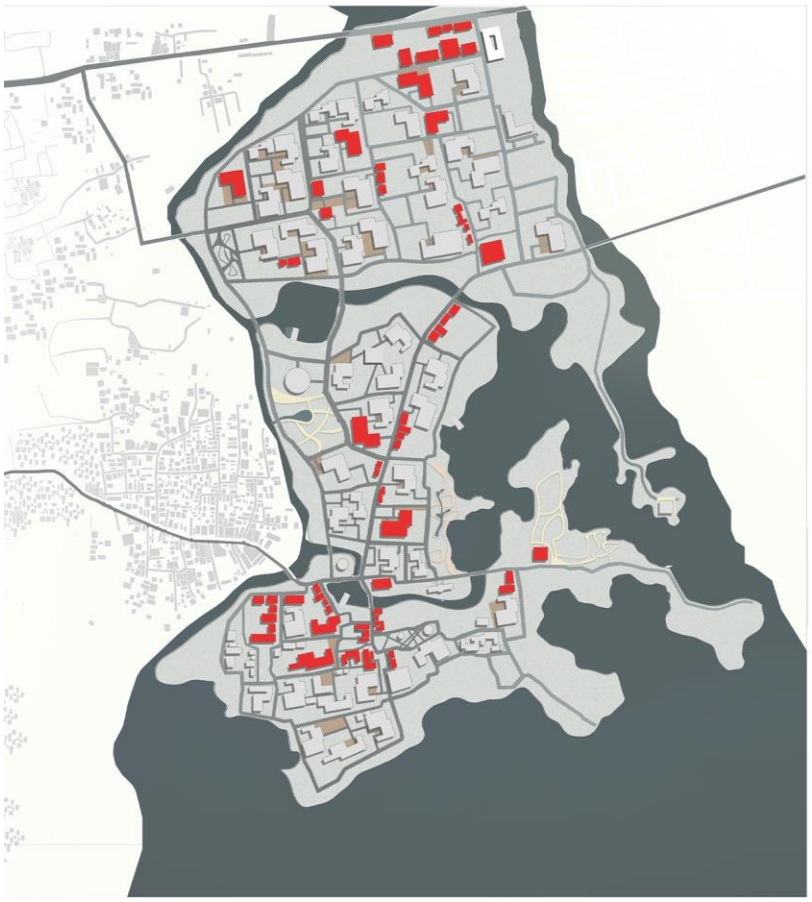
VEGETAION ALONG WITH THE CANNEL

EXISTING GREEN

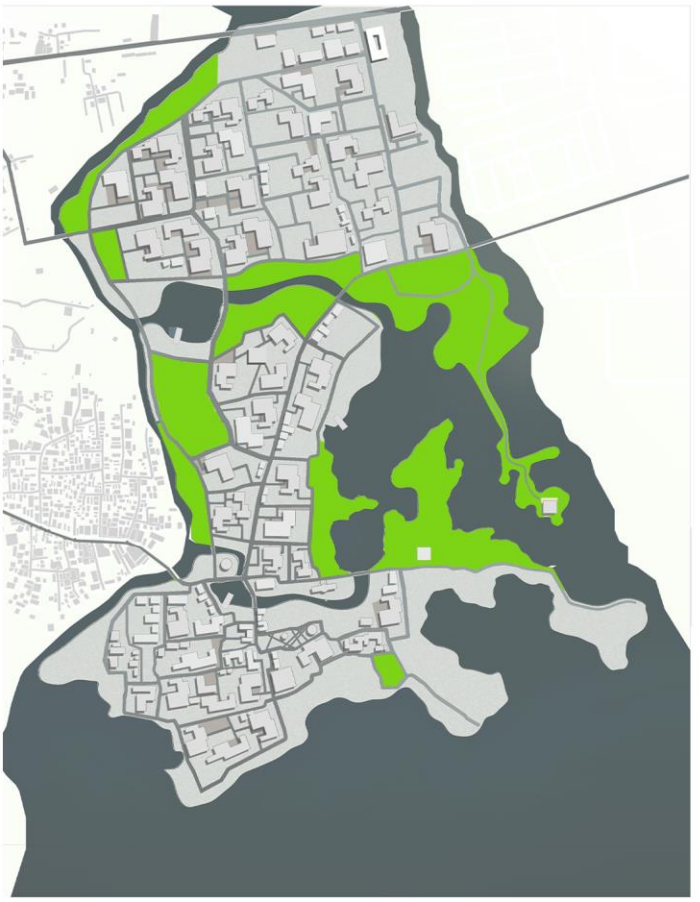
PROPOSED GREEN

MASTERPLAN

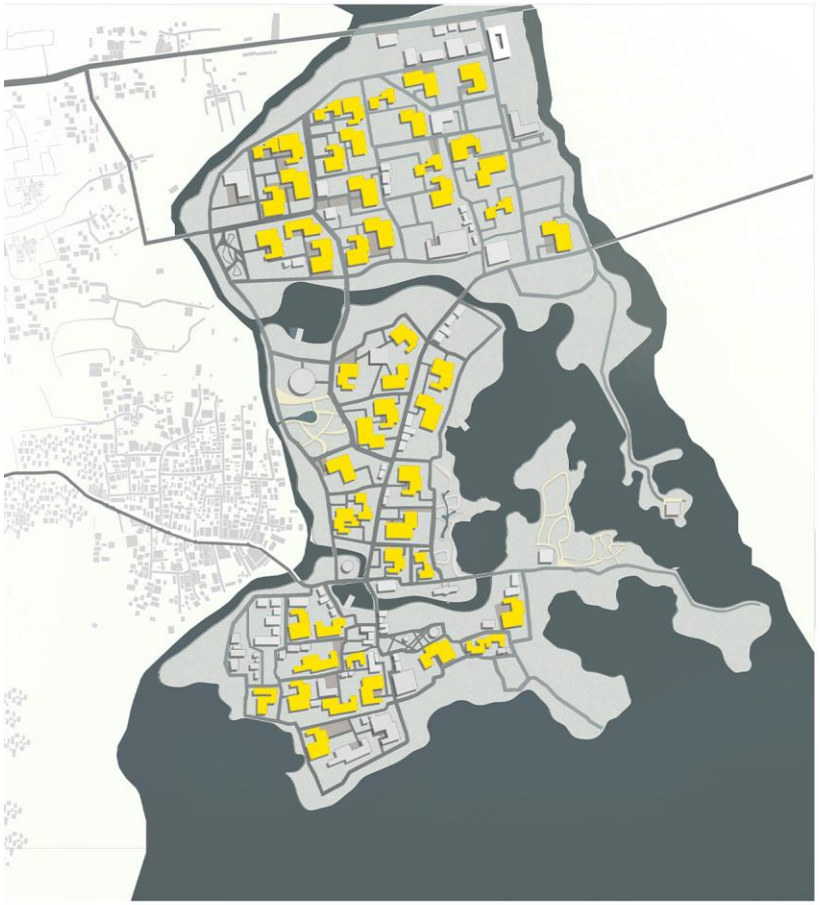
MASTERPLAN ZONING DISTRIBUTION



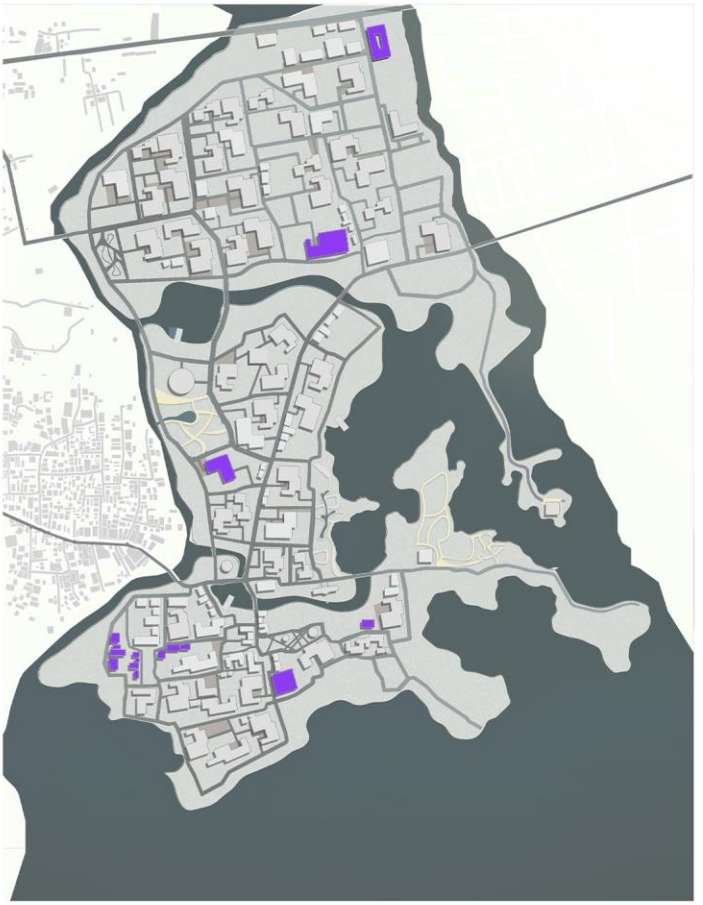
COMMERCIAL



PUBLIC REALM

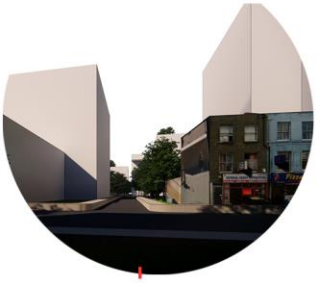


RESIDENCE AND MIX USED



MILLS AND INDUSTRY

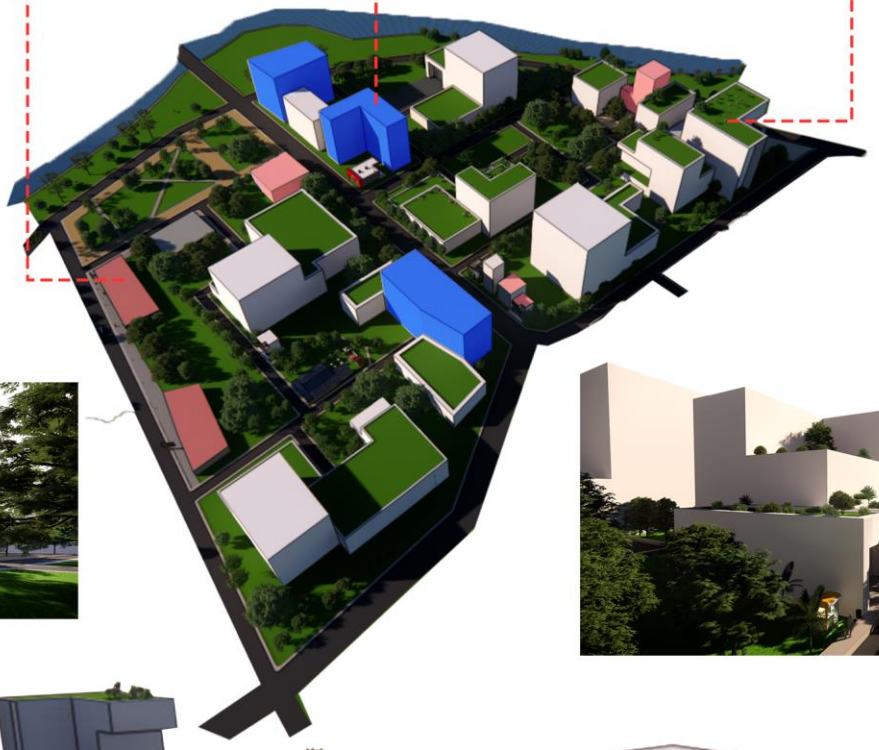
CLUSTER

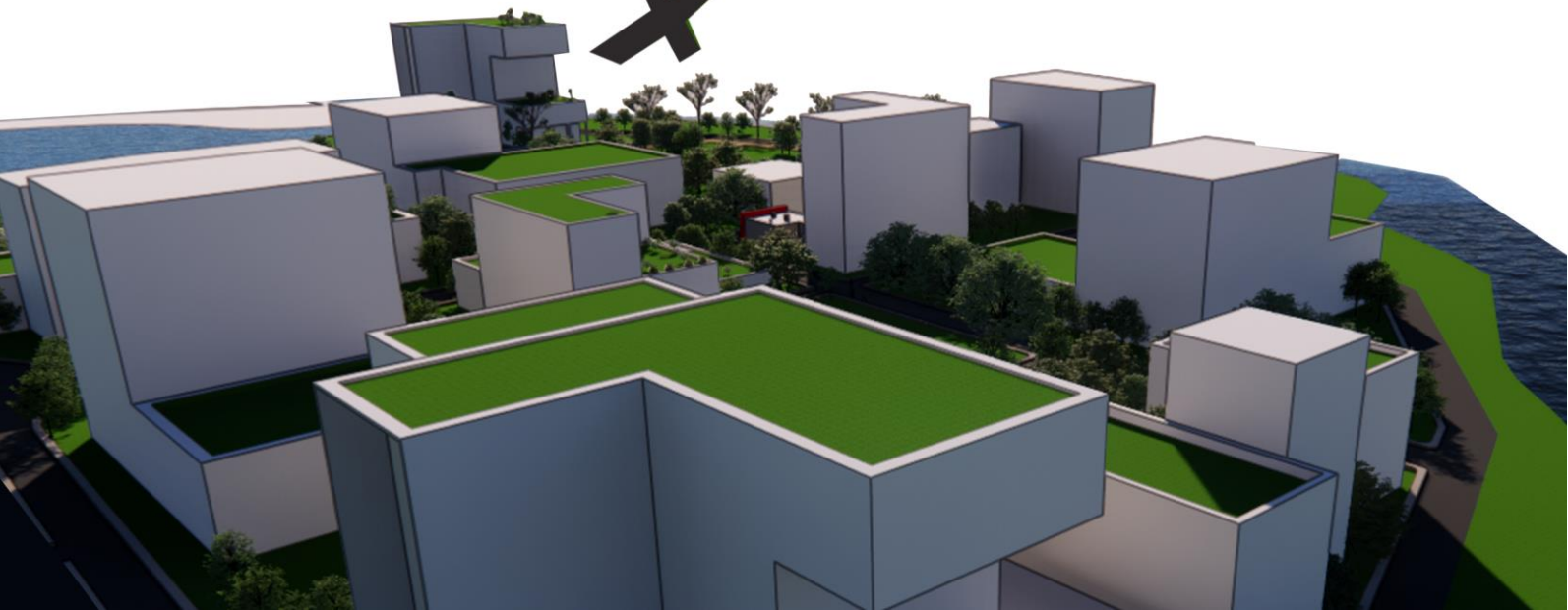


MIXED USE

COMMERCIAL

RESIDENTIAL





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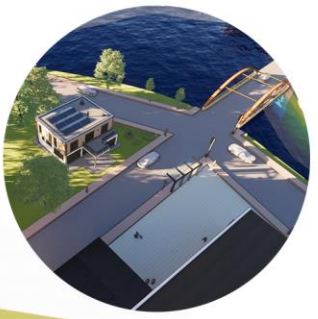
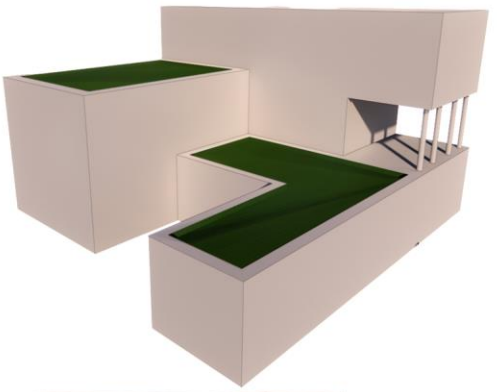
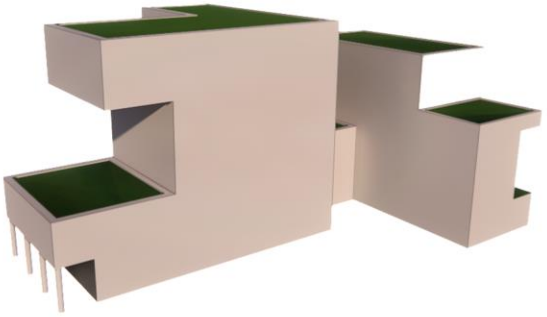
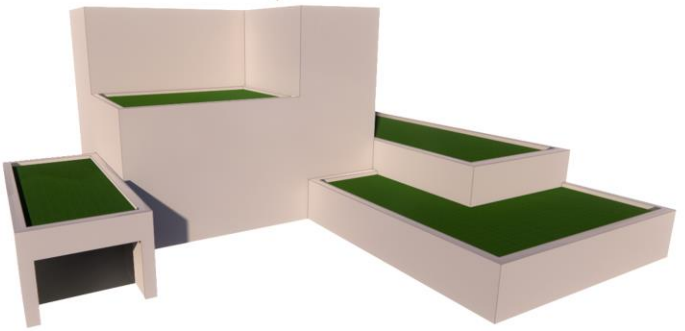


BUILDING MODULE & AGRO FRIENDLY NEIGHBOURHOOD

THESE ARE THE AGRO BASED MODULES. PEOPLE CAN LIVE WITH GREEN HERE. THEY CAN PRODUCE THERE OWN FOOD. IT CAN BE ALSO A SOURCE OF INCOME FOR THEM WHICH WILL HELP THEM ECONOMICALLY. IN THIS WAY SATARKUL CAN BE A FOOD PROVIDER FOR THE ENTIRE COUNTRY AS FOOD CRISIS IS GOING TO BE AN HUGE ISSUE IN FUTURE.





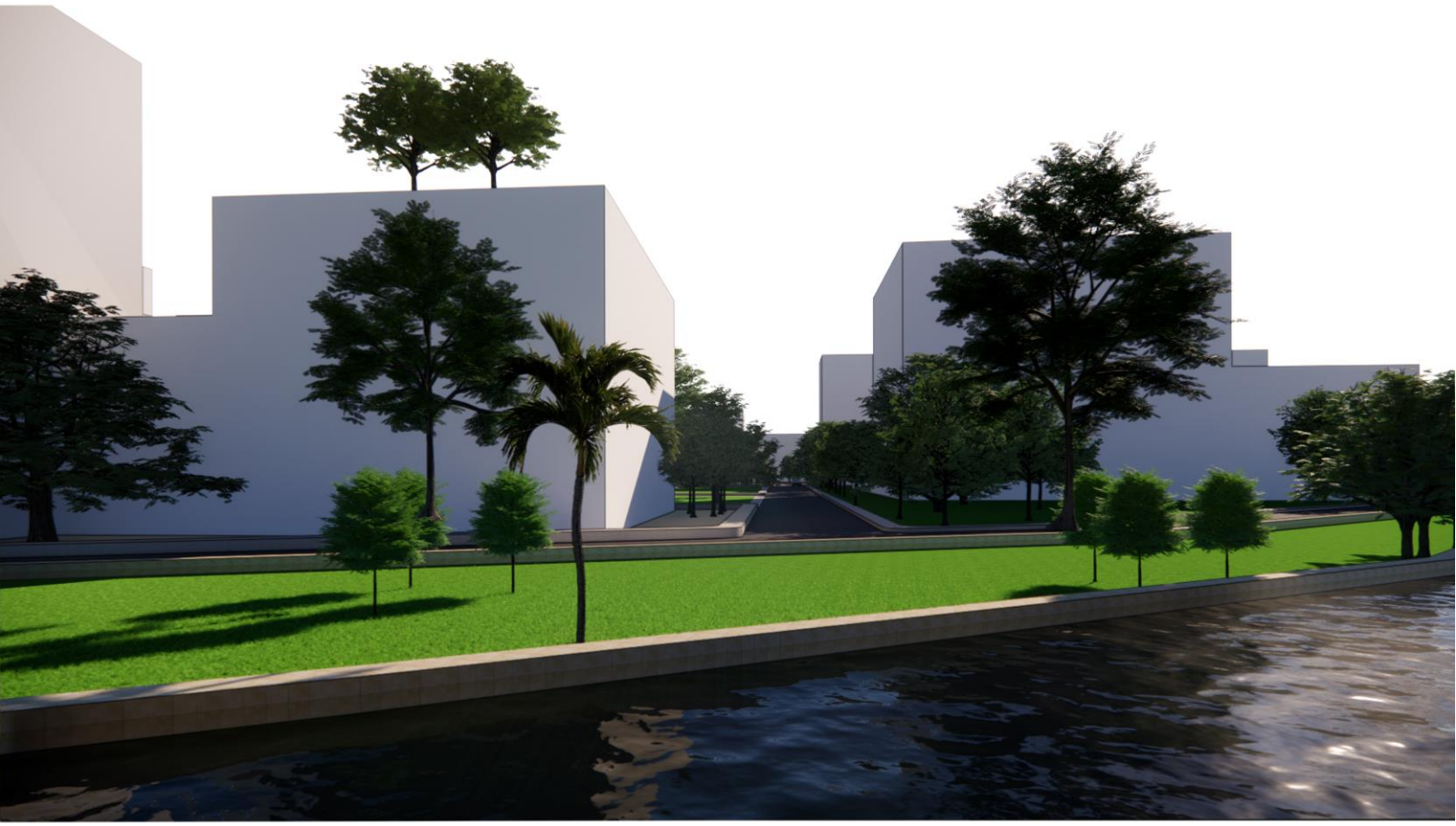


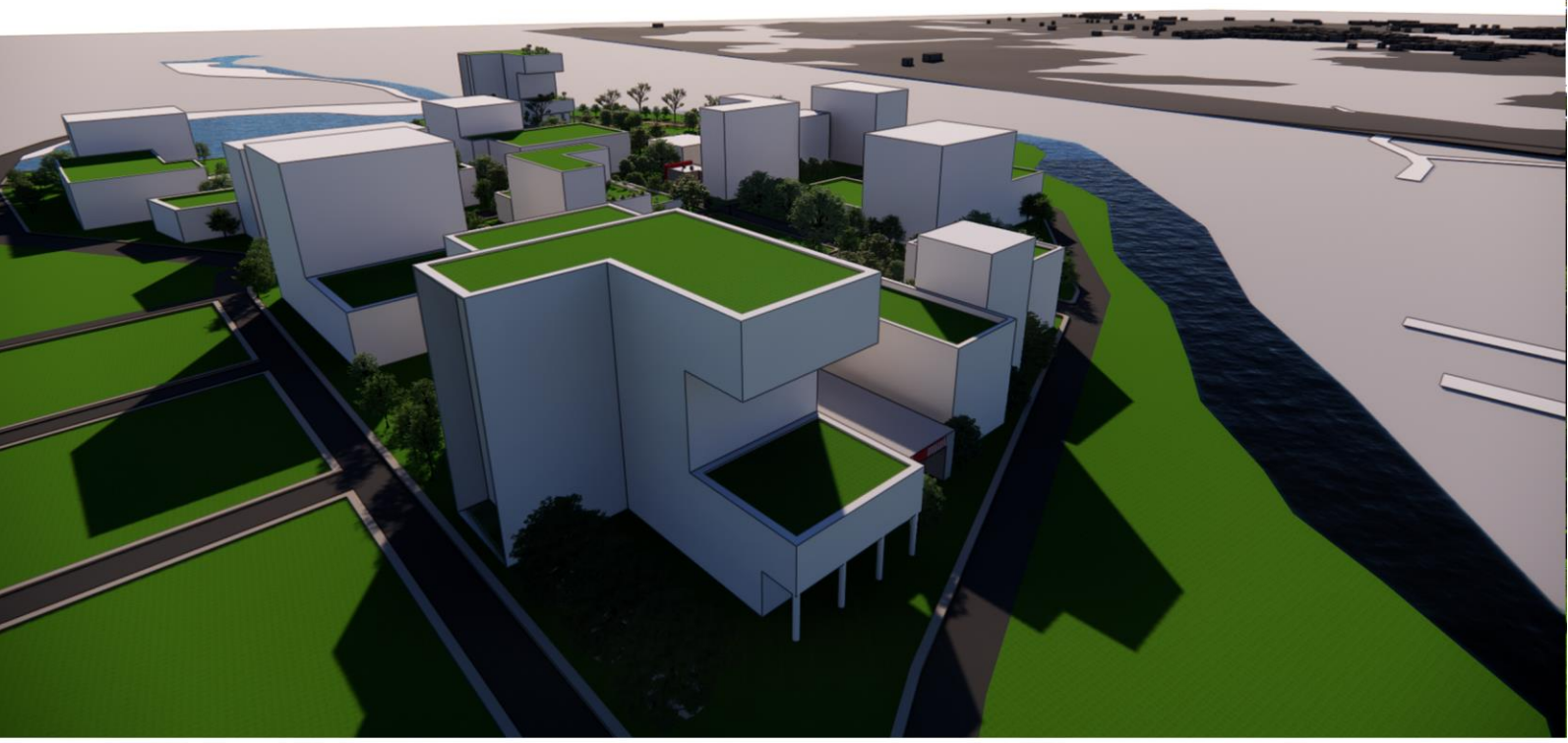
CROPS
Participated Farmland for education & exhibition

NATIVE PLANTS
Habitat Protection

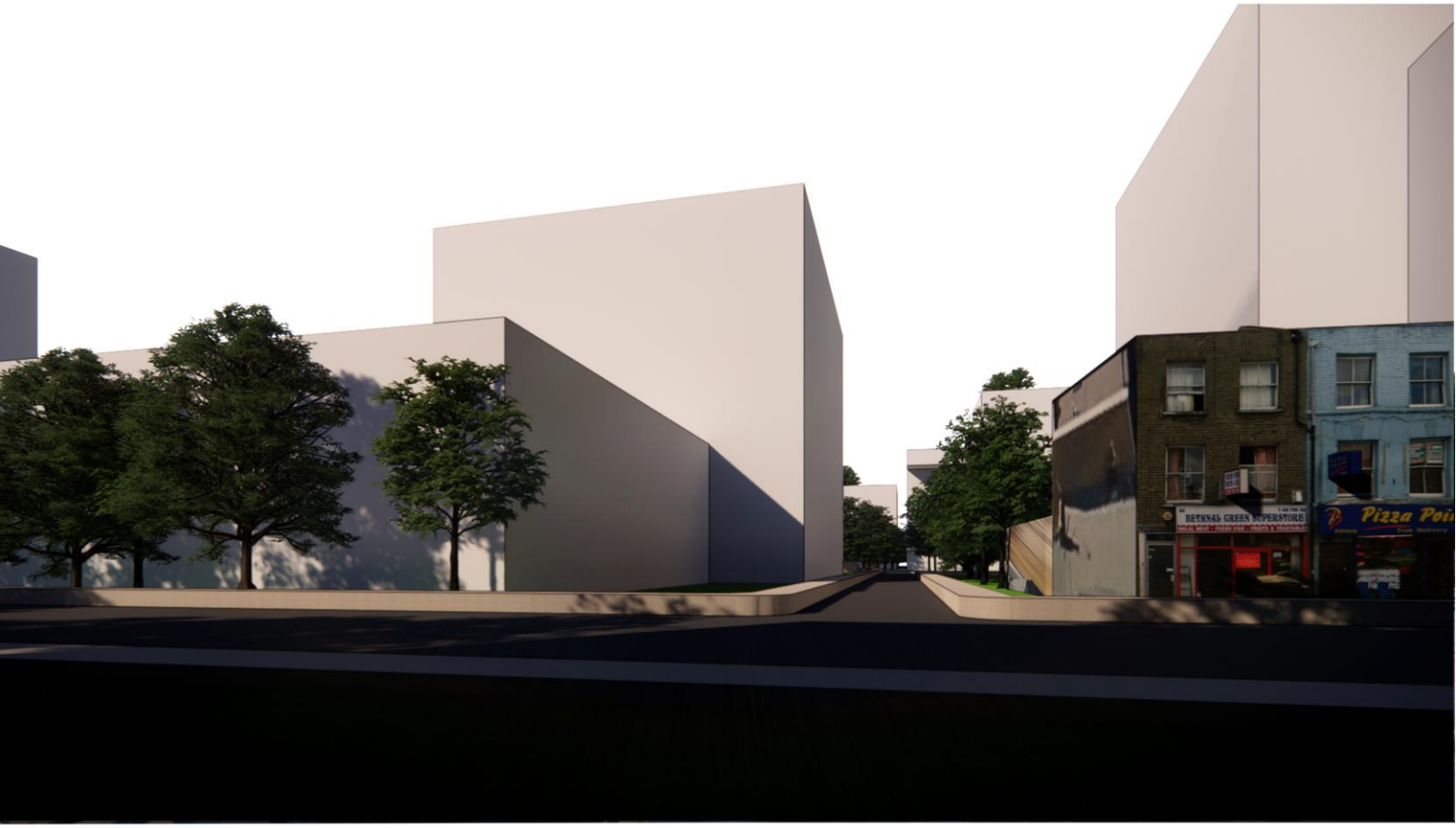
RENDER IMAGES

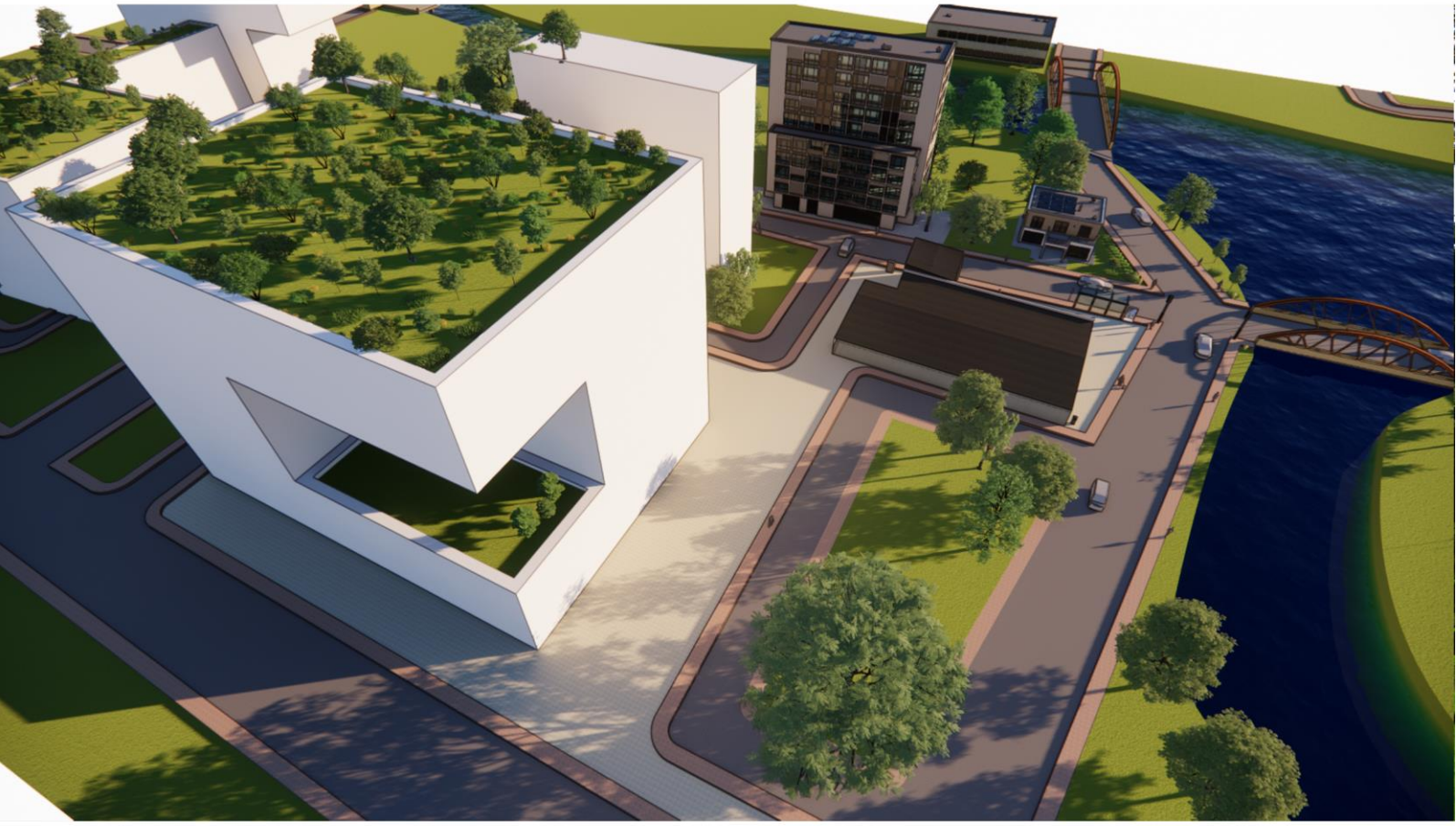
RENDER IMAGES





RENDER IMAGES





RENDER IMAGES


THANK YOU