

PRESENTATION TO THE

ARCHITECTS AND THE SMART CITIES MISSION

CONFERENCE IN NEW DELHI

12 APRIL, 2016

P K D A S
&
A S S O C I A T E S

Inclusive Urban Development

Planning & Design
Approach



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KEY OBJECTIVES

KEY OBJECTIVES

ACHIEVEMENT OF HIGHER
STANDARDS OF



HUMAN DEVELOPMENT

&

QUALITY OF LIFE

KEY OBJECTIVES

HUMAN
DEVELOPMENT

&

QUALITY
OF LIFE



WITH ACCESS TO

3 AFFORDABLE
AMENITIES



4 SUSTAINABLE
MOBILITY



WITH ACCESS TO

1 OPEN SPACES AND
URBAN LANDSCAPE



2 AFFORDABLE
HOUSING



WITH FOCUS ON

5 AESTHETICS: URBAN DESIGN
AND BUILT-FORM



ACTIONPLAN

ACTION PLAN

AFFORDABLE
AMENITIES



SUSTAINABLE
MOBILITY



1 OPEN SPACES AND
URBAN LANDSCAPE



AFFORDABLE
HOUSING



AESTHETICS: URBAN DESIGN
AND BUILT-FORM



ACTION PLAN

1 OPEN SPACES AND URBAN LANDSCAPE

TASK 1: MAPPING AND DATA

TASK 2: PREPARING IDEA PLANS FOR:



NETWORKING
OPEN SPACES



INTEGRATING NATURAL
FEATURES



PROMOTING
TREE PLANTATION



RECYCLING SOLID
WASTE AND
WASTE WATER



TASK 1: OPEN SPACES MAPPING

PARKS AND GARDENS
PLAYGROUNDS
RECREATION GROUNDS

PUBLIC SPACES:
STATION SQUARES
MARKET PLACES
AUDITORIUMS, COMMUNITY HALLS
STREETS

NATURAL FEATURES:
BEACHES AND WATERFRONTS
RIVERS
LAKES AND PONDS
CREEKS
WETLANDS
MANGROVES
HILLS AND FORESTS
WATERCOURSES

INTEGRATING NATURAL FEATURES- RIVERS AND WETLANDS

NETWORKING OPEN SPACES- JUHU VISION PLAN



PROMOTING TREE PLANTATION- MUNICIPAL CITY FOREST, JUHU



TASK 2: DEFINING OPEN SPACES AND URBAN LANDSCAPE

AN EXAMPLE:
'OPEN MUMBAI PLAN'

WHAT WE DON'T SEE AND REALIZE AS OUR PUBLIC SPACES ASSETS:

482 SQ KMS OF TOTAL AREA
149 KMS OF COASTLINE
16 KMS OF BEACHES
40.7 KMS OF RIVERS COVERING 1.5 SQ KMS
09.25 SQ KMS OF CREEKS
48 KMS OF 'NULLAHS'
305 KMS OF POTENTIAL PEDESTRIAN AVENUES ALONG ROADS
64.31 SQ KMS OF FORESTS AND HILLS
155 ACRES OF 51 RAILWAY STATIONS



ACTION PLAN

AFFORDABLE AMENITIES



SUSTAINABLE MOBILITY



OPEN SPACES AND URBAN LANDSCAPE



2 AFFORDABLE HOUSING



AESTHETICS: URBAN DESIGN AND BUILT-FORM



ACTION PLAN

2 AFFORDABLE HOUSING

TASK 1: MAPPING AND DATA

TASK 2: PREPARING IDEA PLANS FOR:



COMPREHENSIVE
SLUMS
REDEVELOPMENT



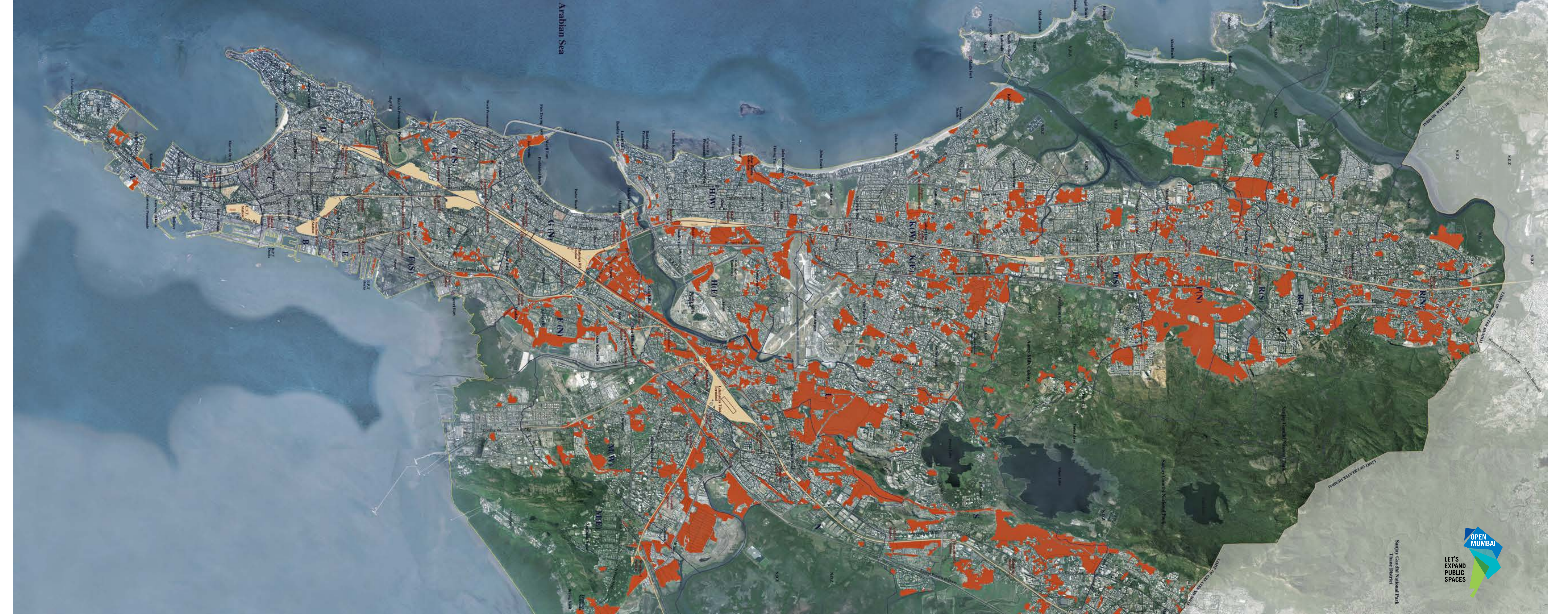
AFFORDABLE
HOUSING AND
WORK PLACES



SHELTERS



GAOTHANS
REDEVELOPMENT



TASK 1: SLUMS MAPPING

LAND OWNERSHIP

SLUMS
DILAPIDATED BUILDINGS

DENSITY AND F.A.R.
PVT. HSG PROJECTS

STATE EMPLOYEES HSG:
POLICE, CONSERVANCY
STAFF, CLASS IV
EMPLOYEES, ETC.



TASK 1: MAPPING HOUSING

LAND OWNERSHIP

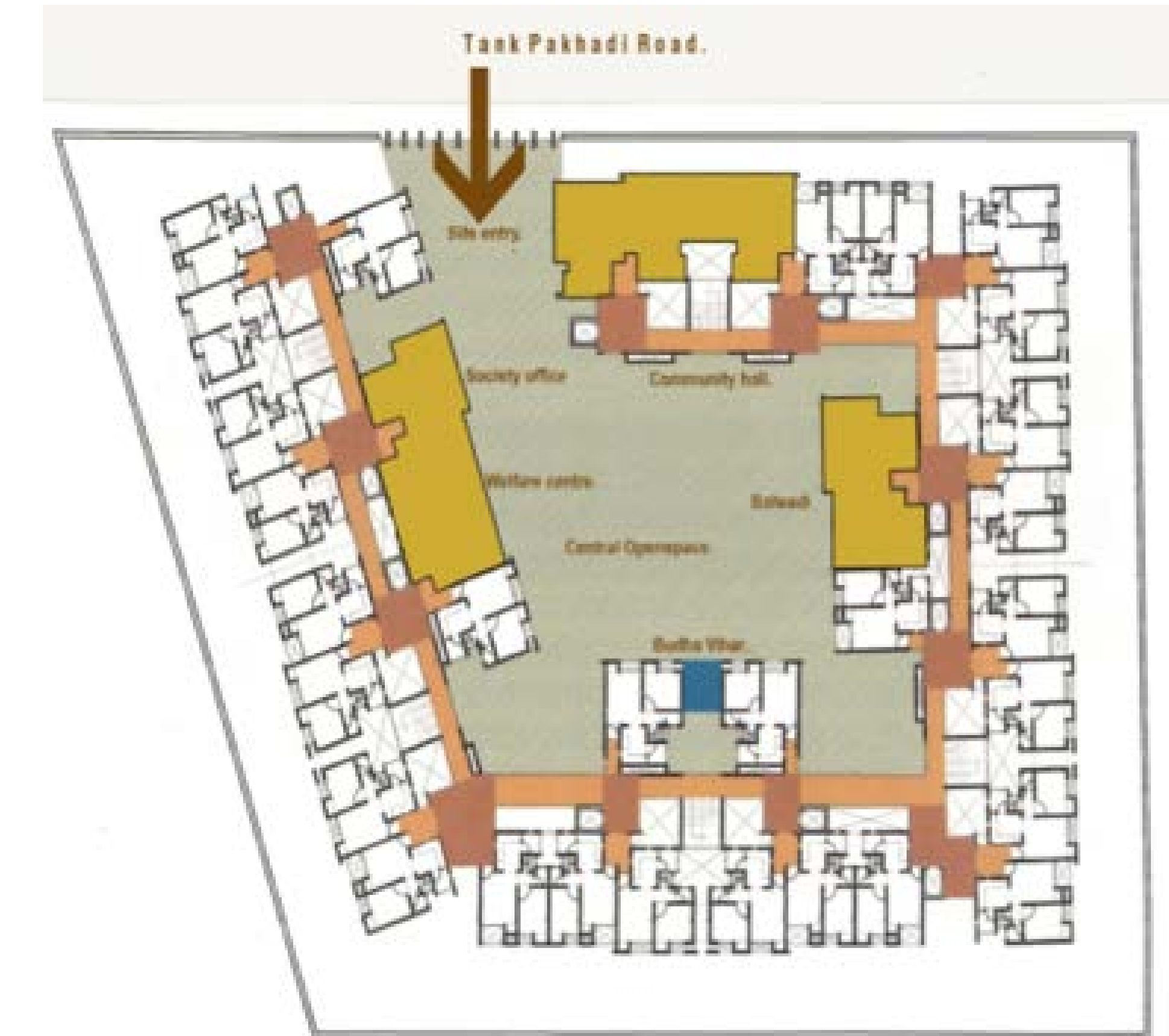
SLUMS
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DENSITY AND F.A.R.
PVT. HSG PROJECTS

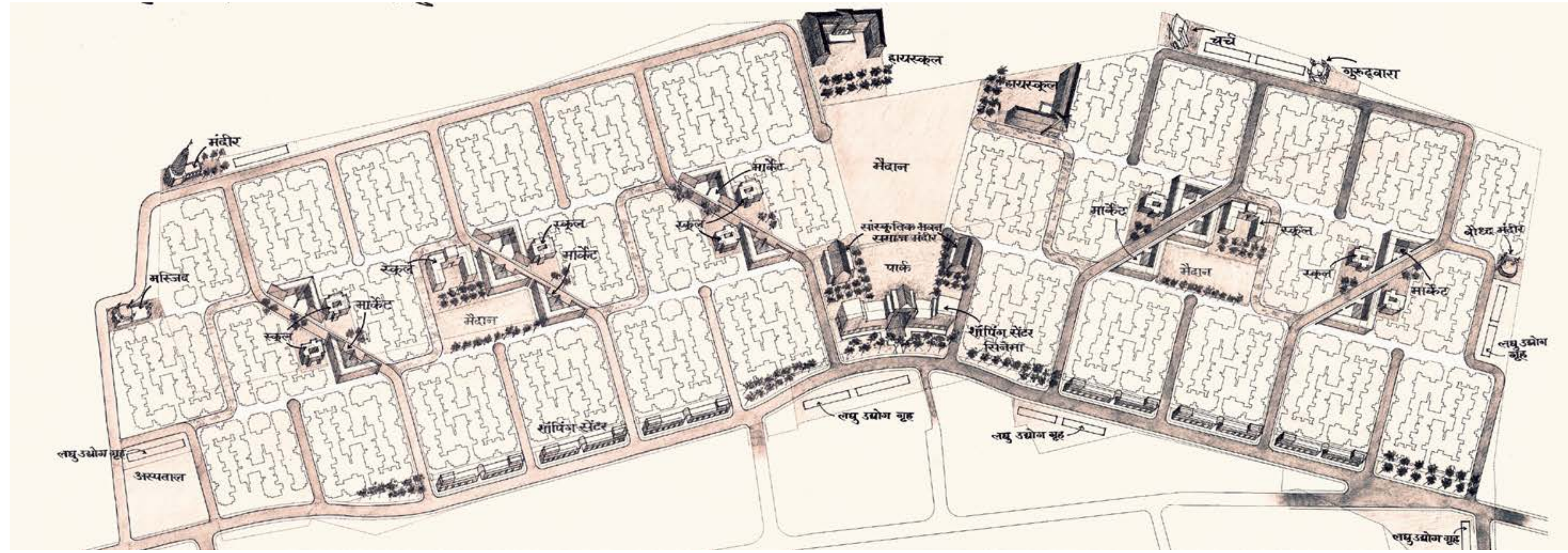
STATE EMPLOYEES HSG:
POLICE, CONSERVANCY
STAFF, CLASS IV
EMPLOYEES, ETC.

TASK 2

AFFORDABLE HOUSING- 'ASHRAY' FOR BMC



COMPREHENSIVE SLUMS REDEVELOPMENT- CHANDIVALI EXAMPLE



COMPREHENSIVE SLUMS REDEVELOPMENT- CHANDIVALI EXAMPLE



12,50,000 sqmt Built up are

E - Eastern Suburb Sites – 9 Location



This aerial map of the Bhandup area in Mumbai, India, displays various land use zones and infrastructure. The map includes labels for 'Goregaon Mulund', 'Link Rd', 'S G Barve Marg', and 'Bhandup Station'. Numbered zones (1-12) are highlighted in different colors: green, orange, blue, and red. A scale bar at the bottom right indicates distances from 0 to 1000 meters.

464 Ten./ha
(under F.S.I. – 2.5)

ACTION PLAN

3 AFFORDABLE AMENITIES



SUSTAINABLE MOBILITY



OPEN SPACES AND URBAN LANDSCAPE



AFFORDABLE HOUSING



AESTHETICS: URBAN DESIGN AND BUILT-FORM



ACTION PLAN

3 AFFORDABLE AMENITIES

TASK 1: MAPPING AND DATA
TASK 2: PREPARING IDEA PLANS FOR:



CULTURAL SPACES



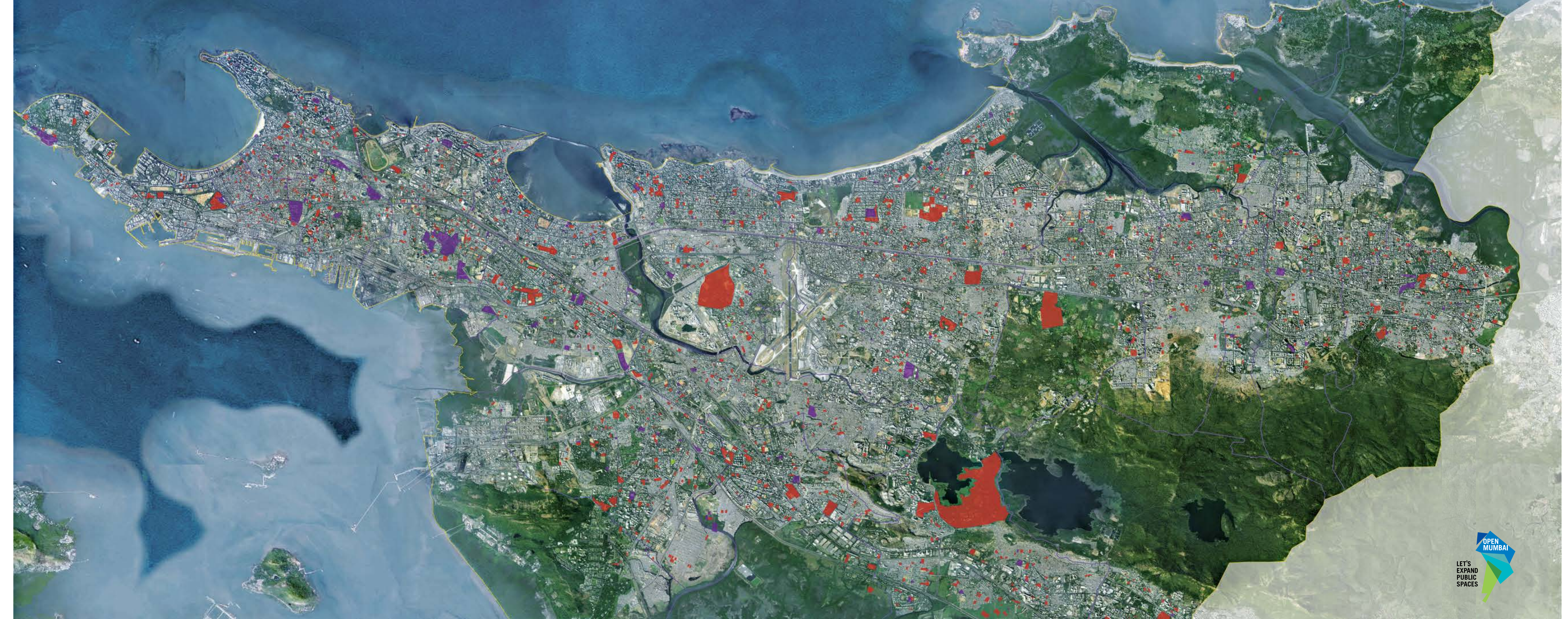
RECREATIONAL FACILITIES



HEALTHCARE AND SANITATION



EDUCATION



TASK 1: AMENITIES MAPPING

RECREATION:
GYMNASIUMS
CLUBS
SPORTS FACILITIES

HEALTHCARE:
PRIMARY CENTERS
POLYCLINICS
SPECIALTY CENTERS
HOSPITALS

EDUCATION:
PLAYSCHOOLS
PRIMARY AND SECONDARY SCHOOLS
JUNIOR AND SENIOR COLLEGES
PROFESSIONAL COURSES AND
UNIVERSITIES

TASK 2

CULTURAL SPACES- SQUARES: GATEWAY OF INDIA



CULTURAL SPACES- HISTORIC SITES: BANDRA FORT, LAND'S END

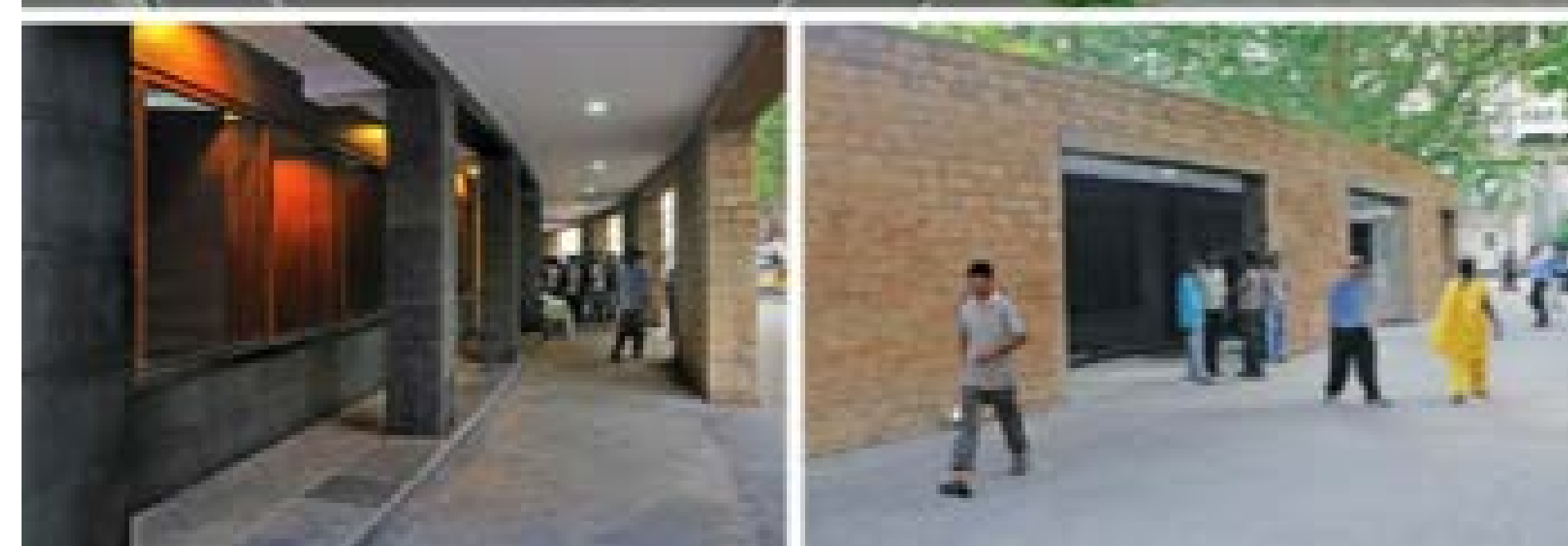


RECREATION SPACES: KAIFI AZMI AND BAJIPRABHU UDYAN

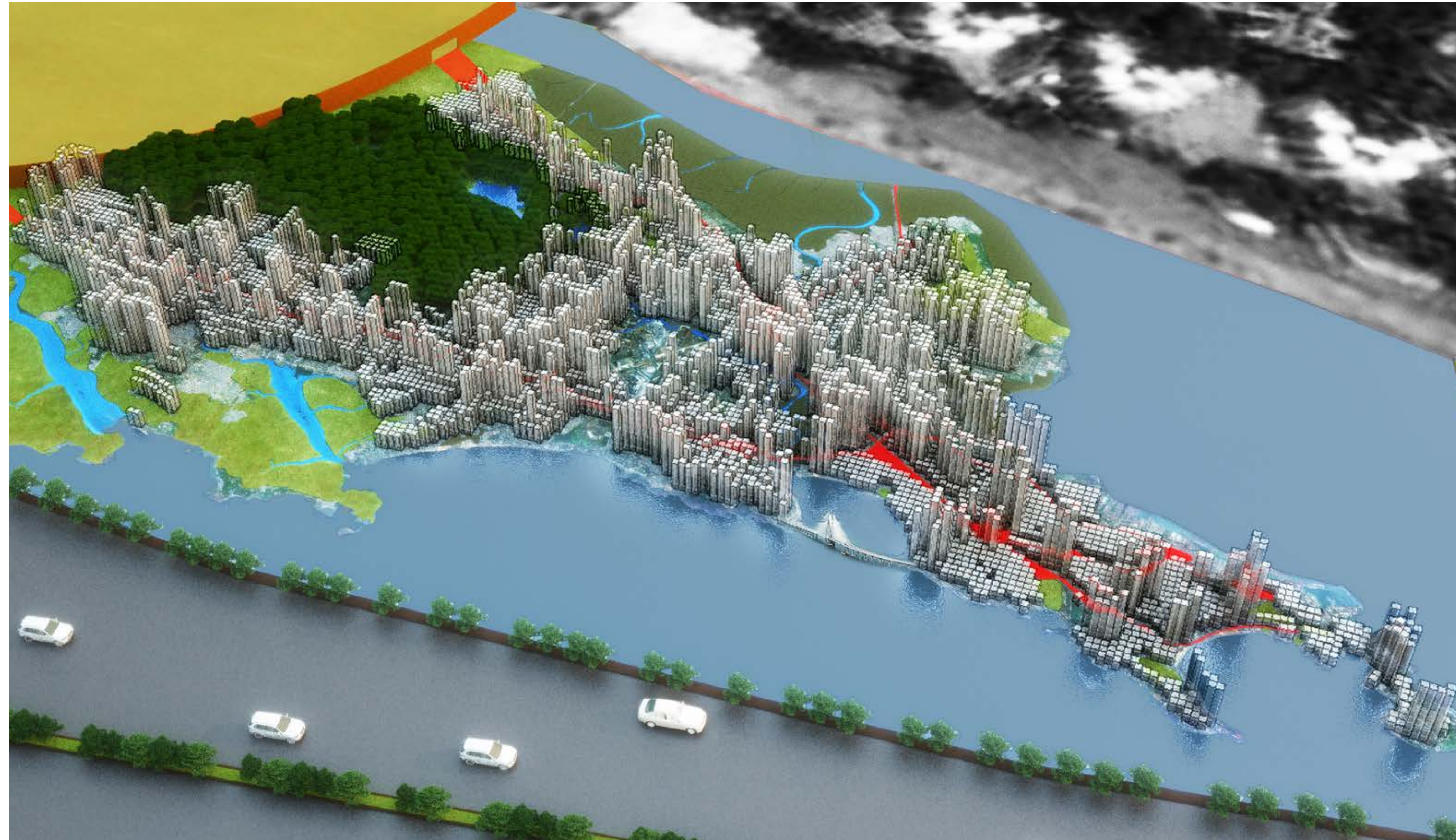


TASK 2

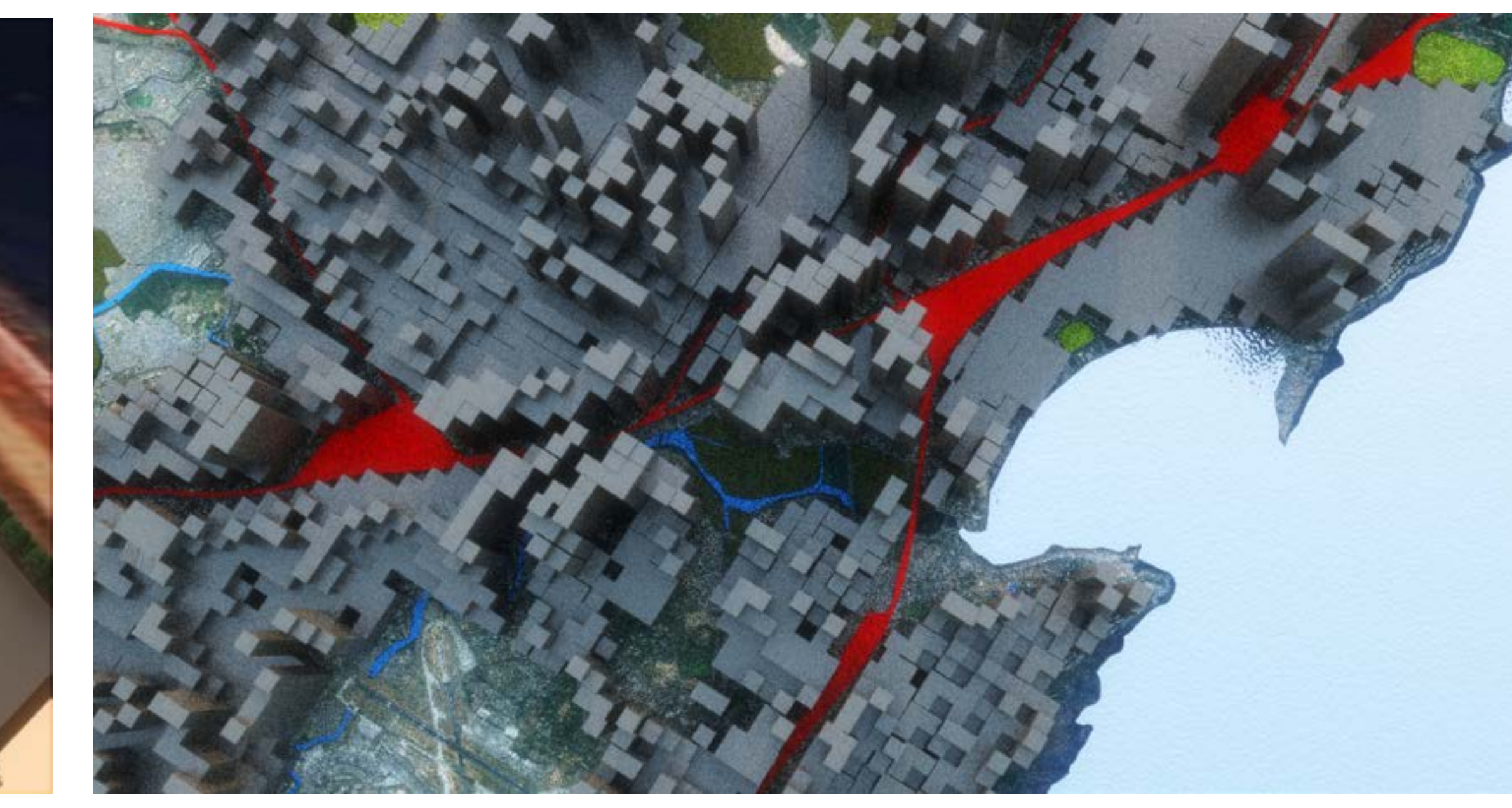
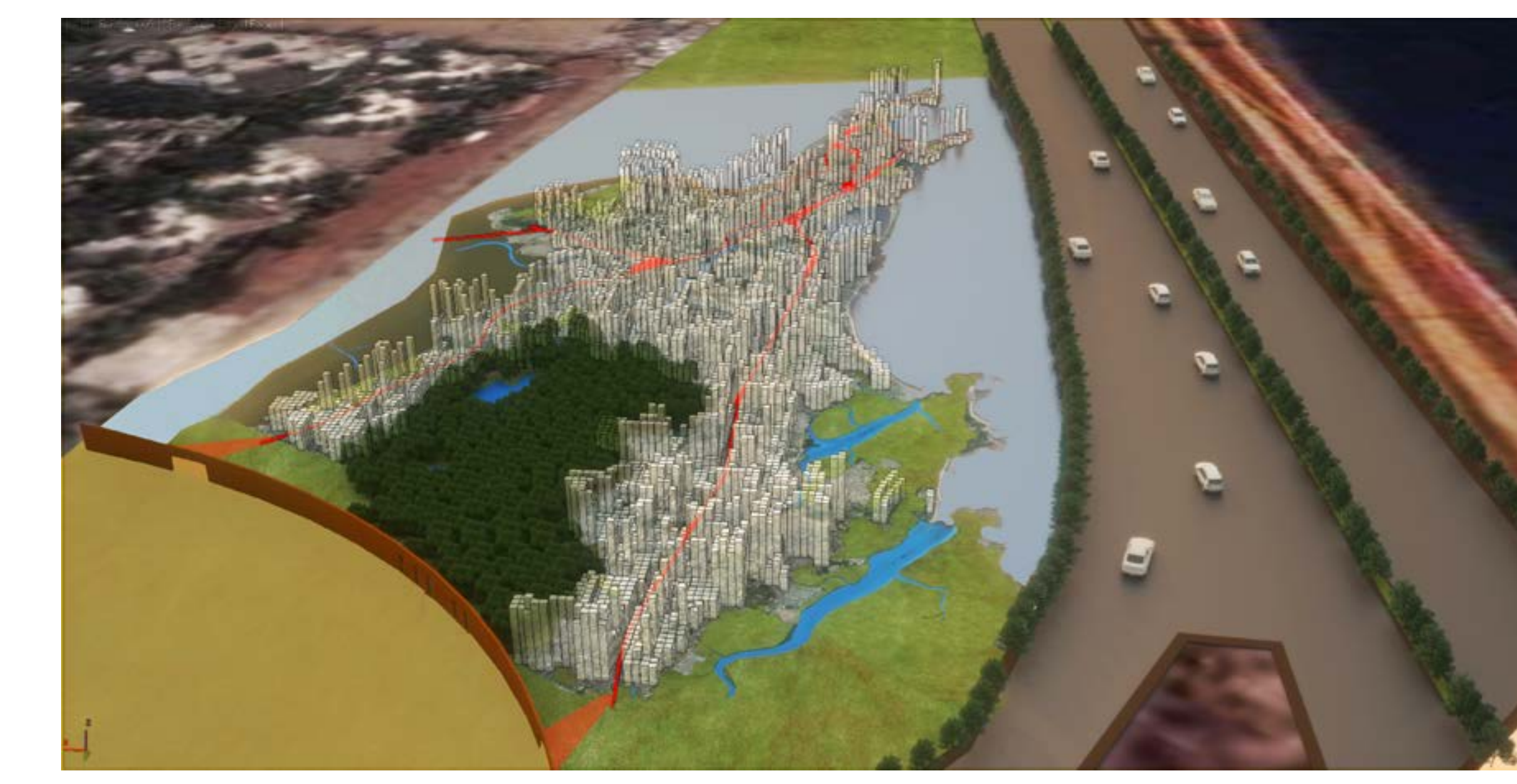
CULTURAL SPACES- SQUARES: GATEWAY OF INDIA



CULTURAL SPACES- PARKS: NATURE OF MUMBAI- A UNIQUE DESTINATION AT BANDRA



CULTURAL SPACES- PARKS: NATURE OF MUMBAI- A UNIQUE DESTINATION AT BANDRA



ACTION PLAN

AFFORDABLE
AMENITIES



4 SUSTAINABLE
MOBILITY



OPEN SPACES AND
URBAN LANDSCAPE



AFFORDABLE
HOUSING



AESTHETICS: URBAN DESIGN
AND BUILT-FORM



ACTION PLAN

4 SUSTAINABLE MOBILITY

TASK 1: MAPPING AND DATA

TASK 2: PREPARING IDEA PLANS FOR:



ROADS PLANNING:
ACHIEVE INTERCONNECTIVITY
AND DISPERSAL



WALKING AND
CYCLING



EXPANSION
OF PUBLIC
TRANSPORT



INTEGRATED
MOBILITY
PLANS

TASK 1: TRANSIT INFRASTRUCTURE MAPPING

ROADS

TRAIN ROUTES

METRO ROUTES

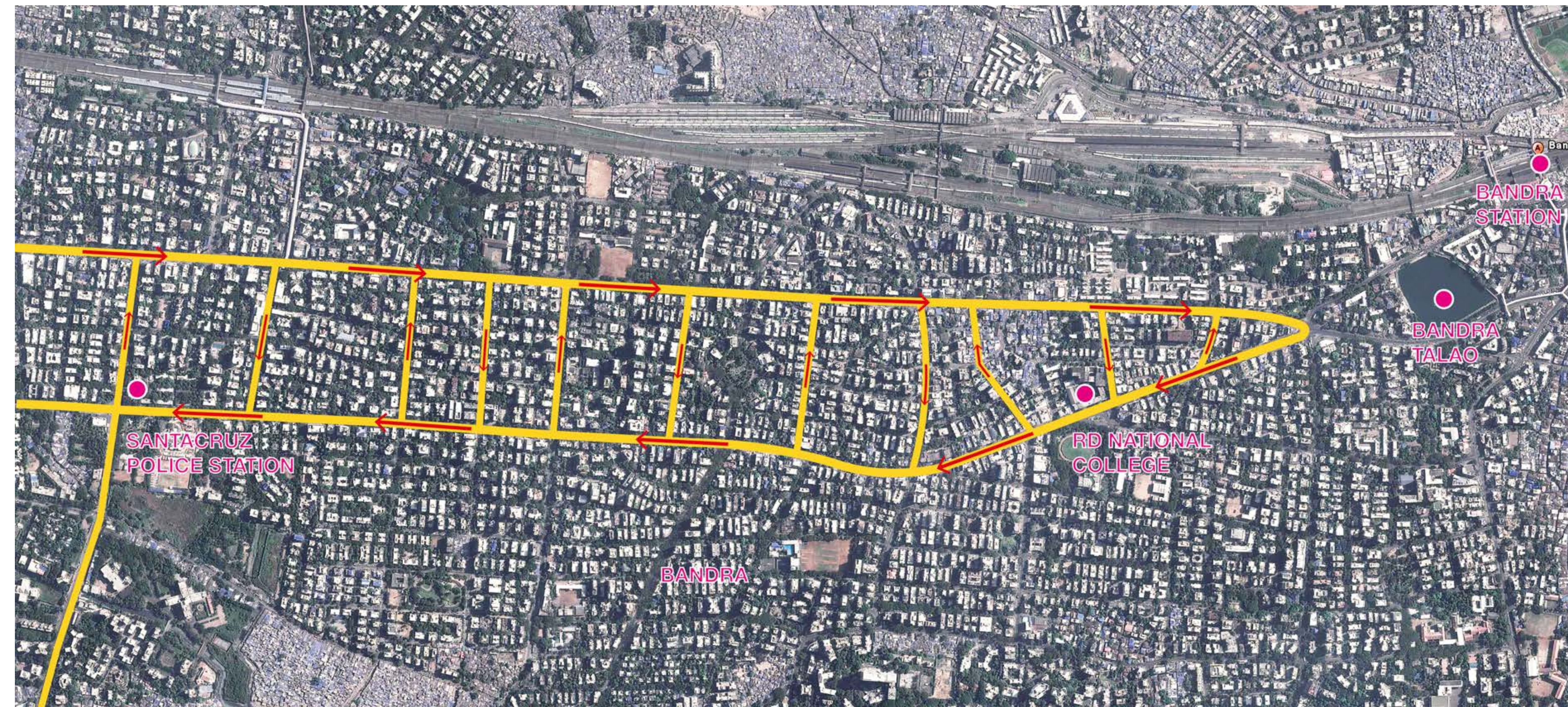
BUSES ROUTES

WATER TRANSPORT

WALKING AND CYCLING

TASK 2

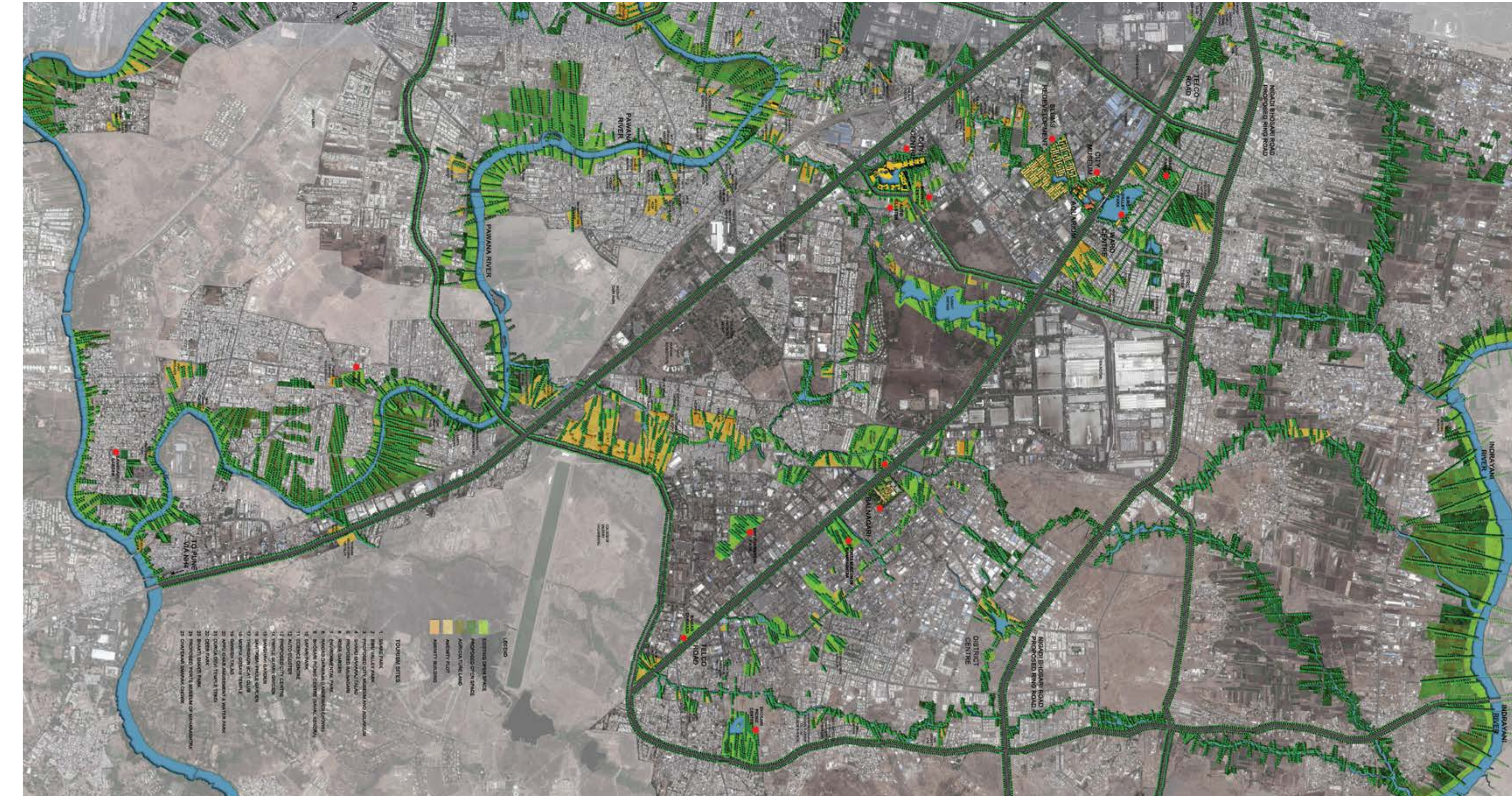
ROADS PLANNING: S.V. AND LINKING ROADS EXAMPLE



WALKING AND CYCLING: IRLA NULLAH AND FORT AREA EXAMPLES



INTEGRATED MOBILITY PLAN- PIMPRI CHINCHWAD EXAMPLE



ACTION PLAN

AFFORDABLE
AMENITIES



SUSTAINABLE
MOBILITY



OPEN SPACES AND
URBAN LANDSCAPE



AFFORDABLE
HOUSING



5 AESTHETICS: URBAN DESIGN
AND BUILT-FORM



ACTION PLAN

5 AESTHETICS

TASK 1: MAPPING AND DATA

TASK 2: PREPARING IDEA PLANS FOR:



BALANCE IN F.A.R.
AND DENSITY



HARMONIZED
BUILT-FORM

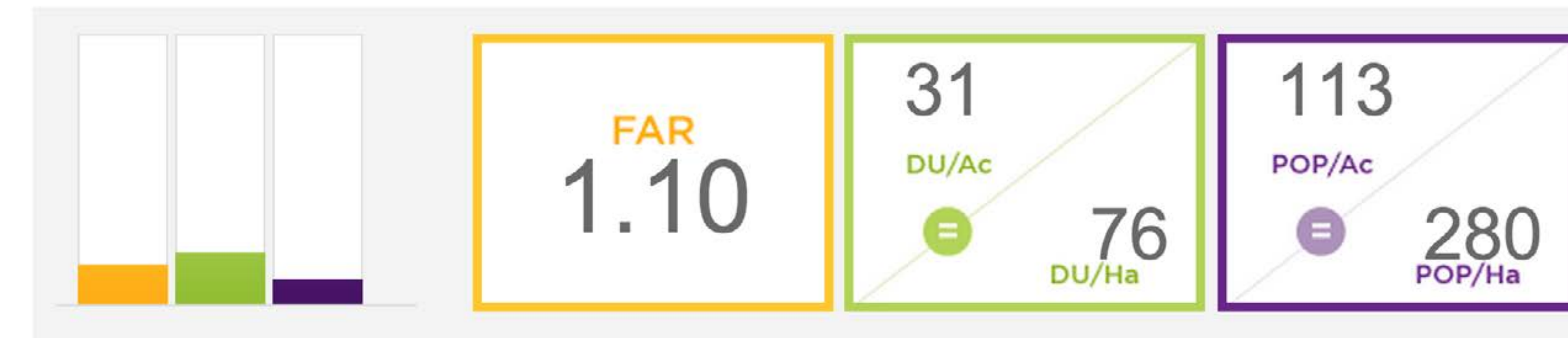
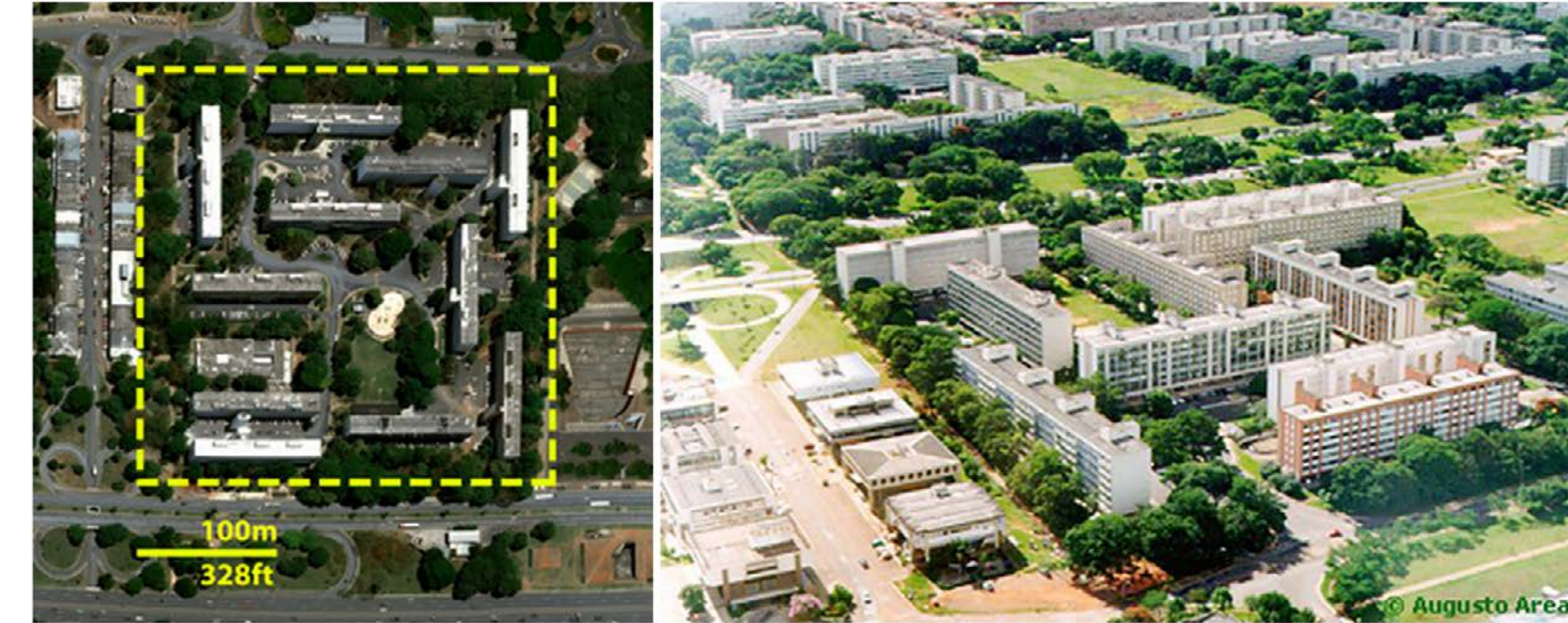


NEIGHBORHOOD
BASED PLANNING



REJUVENATION OF
EXISTING AREAS

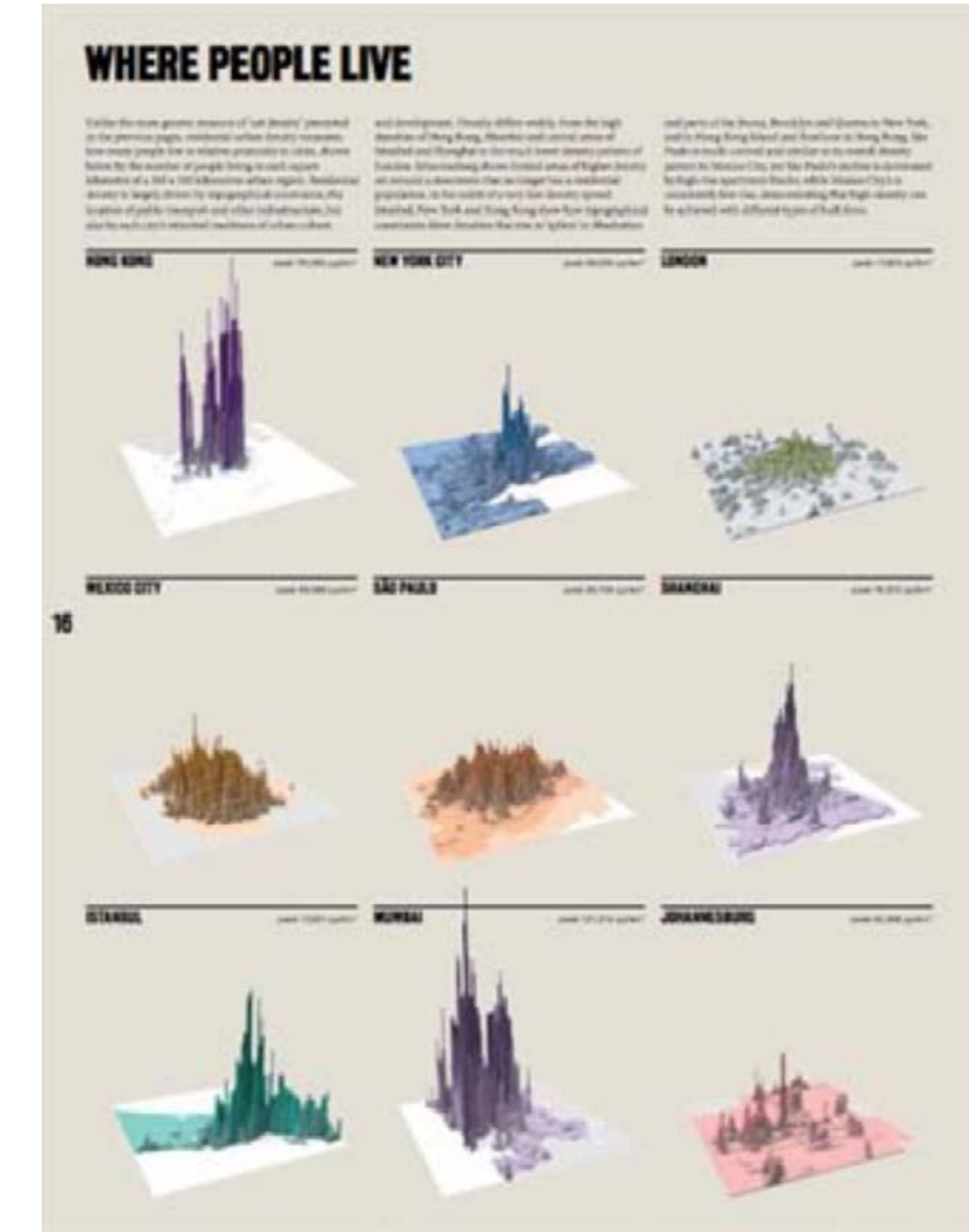
THE DENSITY ATLAS, MIT: TYPICAL BLOCK, BRASILIA (SUPERQUADRA)



URBAN DENSITY MAPPING STUDY BMW GUGGENHEIM LAB, MUMBAI



URBAN DENSITY MAPPING STUDY VENICE BIENNALE

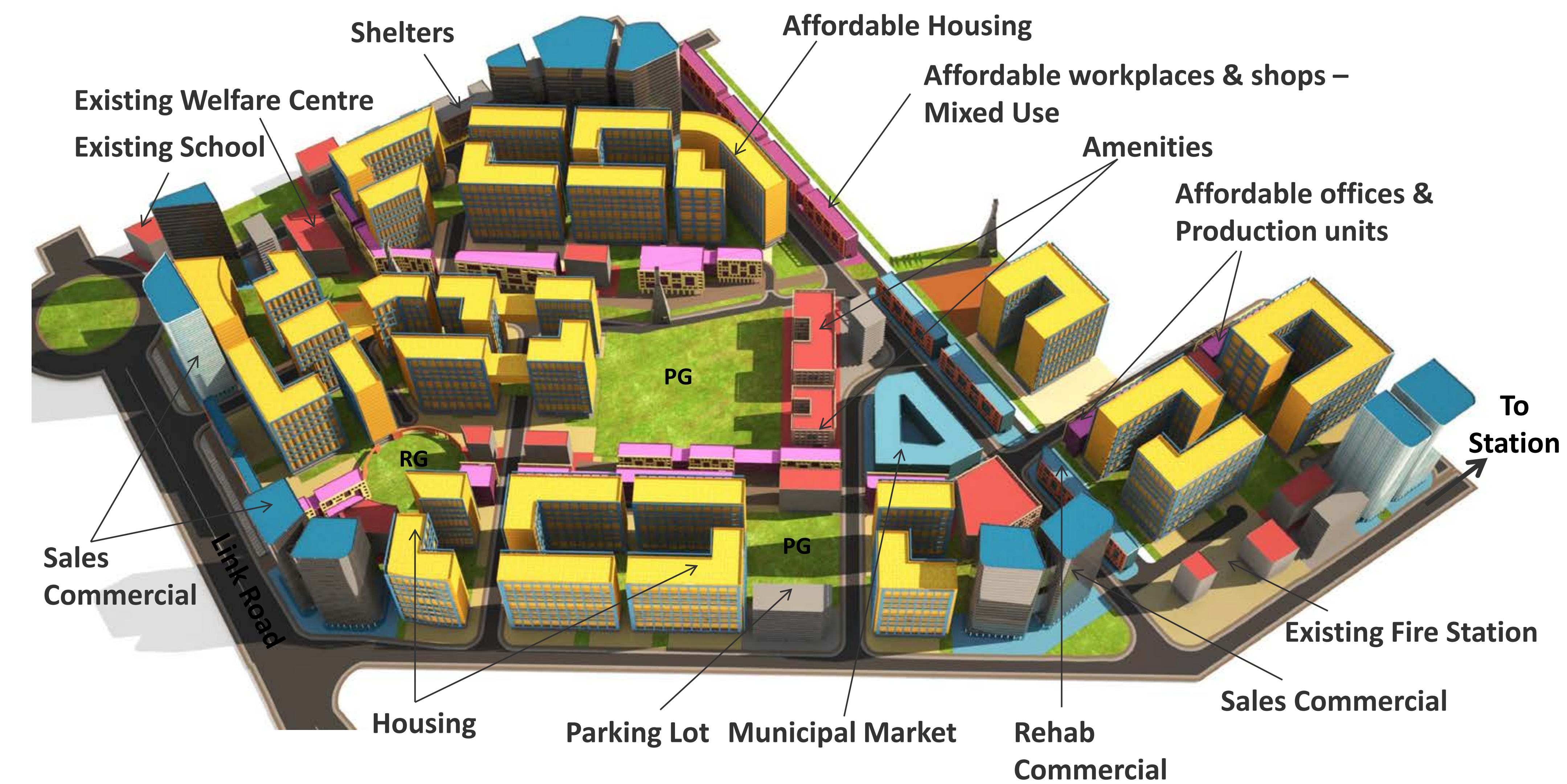


TASK 1: URBAN DESIGN MAPPING

- PREVAILING F.A.R AND DENSITY
- BUILT FORM PROFILE
- DEFINING NEIGHBORHOODS
- IDENTIFYING REDEVELOPMENT AREAS
- IMPACT OF POLICIES

TASK 2

NEIGHBORHOOD BASED PLANNING- MOTILAL NAGAR EXAMPLE



REJUVENATION OF EXISTING AREAS- BARAMATI TOWN CENTER EXAMPLE

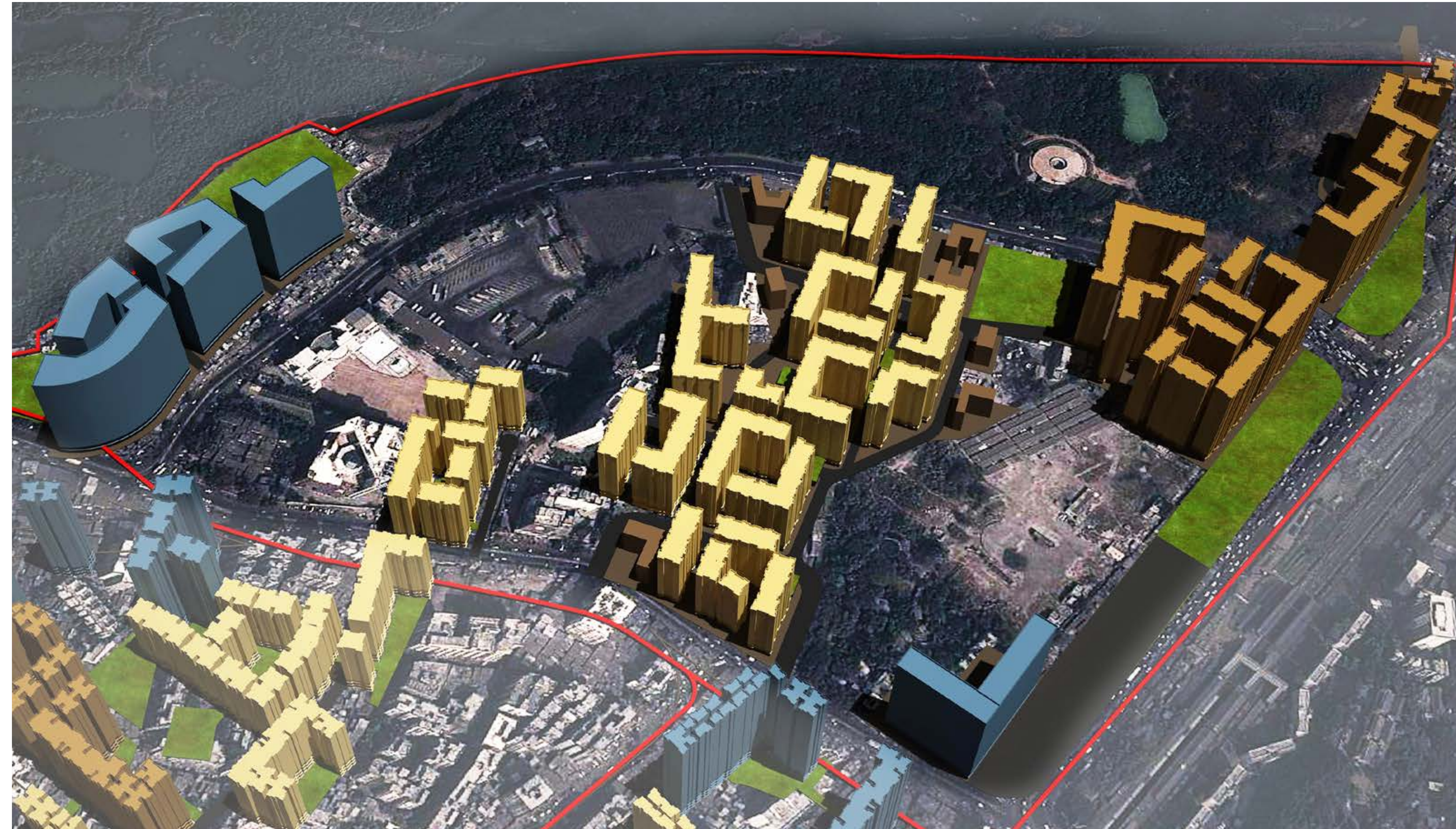


REJUVENATION OF EXISTING AREAS- PANCHGANI TOWN CENTER EXAMPLE



TASK 2

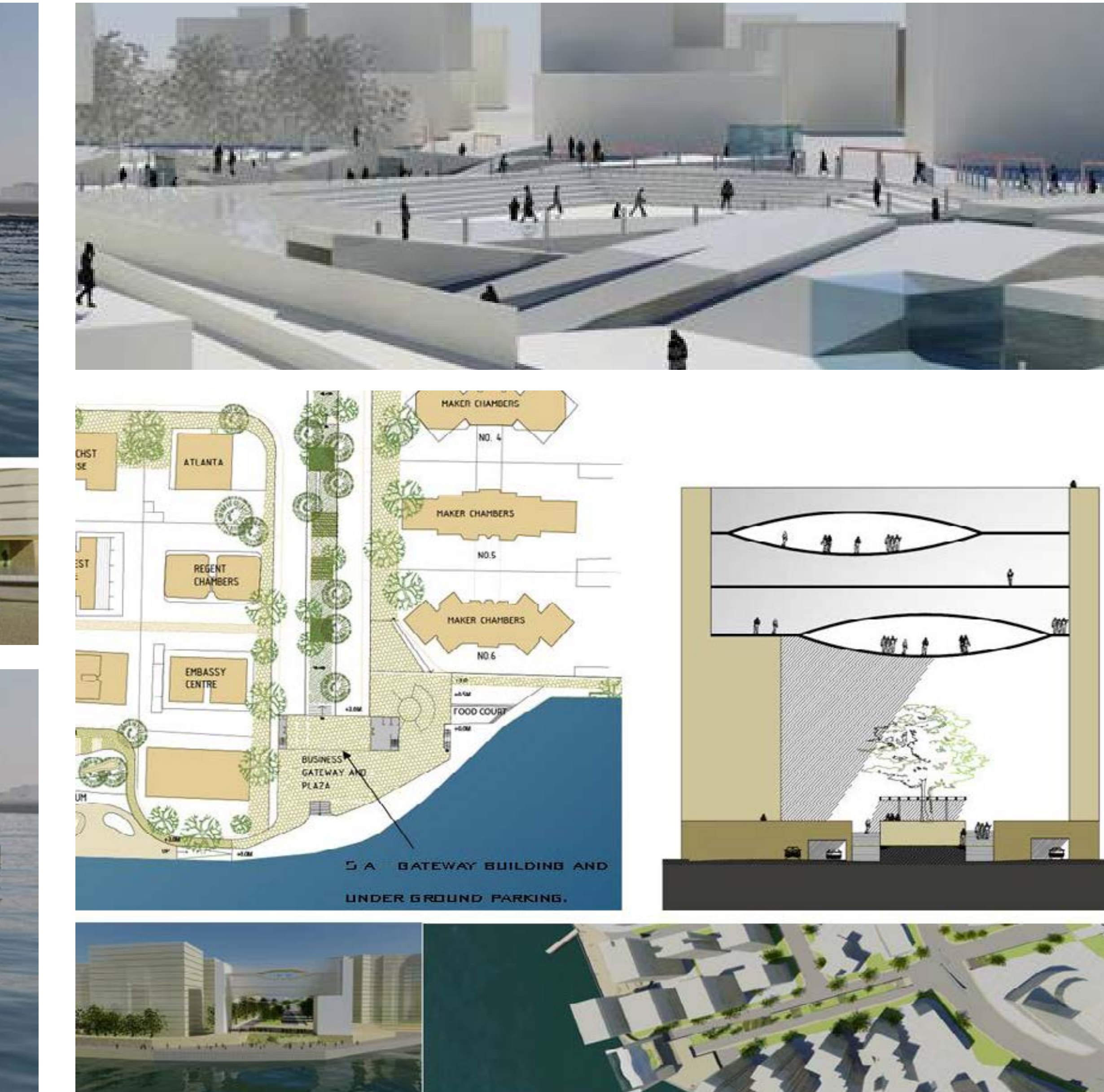
NEIGHBORHOOD BASED PLANNING- DHARAVI SECTOR-V EXAMPLE



REJUVENATION OF EXISTING AREAS- NARIMAN POINT BUSINESS DISTRICT



REJUVENATION OF EXISTING AREAS- NARIMAN POINT BUSINESS DISTRICT



WAY FORWARD

TASK 1: MAPPING AND DATA

TASK 2: PREPARING IDEA PLANS

TASK 3: IMPLEMENTING KEY PROJECTS

1 OPEN SPACES AND URBAN LANDSCAPE



NETWORK OPEN SPACES
INTEGRATE NATURAL FEATURES
PROMOTE TREE PLANTATION
IMPLEMENT NEIGHBORHOOD BASED SOLID WASTE
AND WASTE WATER RECYCLING UNITS

2 AFFORDABLE HOUSING



RESERVE LAND IN DP
RESERVE SLUMS LAND FOR AFFORDABLE HOUSING
PREPARE MASTERPLAN FOR SLUMS OCCUPIED LAND
REDEVELOP AND INTEGRATE GAOTHANS

3 AFFORDABLE AMENITIES



PROMOTE CULTURAL OPEN SPACES
BUILD RECREATIONAL FACILITIES
PROMOTE AFFORDABLE HEALTHCARE AND EDUCATION
BY BUILDING SMALL, DISPERSED FACILITIES
BUILD PUBLIC TOILETS

4 SUSTAINABLE MOBILITY



ACHIEVE WALKING AND CYCLING
EXPAND PUBLIC TRANSPORT
BUILT INTEGRATED MOBILITY PLANS

5 AESTHETICS: URBAN DESIGN AND BUILT- FORM



BALANCE F.A.R. AND DENSITY
HARMONIZE BUILT-FORM
FOCUS ON AESTHETICS
UNDERTAKE NEIGHBORHOOD PLANNING
REJUVENATE EXISTING AREAS

Inclusive Urban Development

Planning & Design
Approach

THANK YOU



pkdas.com
pkdas.arch@gmail.com