

# Urban Design & Planning Portfolio

Aishwarya Talluri

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# Brief Background

## Aishwarya Talluri

Hello !

My fervor interest for public spaces and their pivotal role in fostering community bonds is a cornerstone of my professional ethos. As an urban designer, I have been privileged to contribute to national and state government initiatives that not only prioritize public spaces but also cultivate them through a holistic lens of sustainability.

My journey has allowed me to spearhead certain projects and provide support for others, granting me a comprehensive view from the project's genesis, through meticulous design development, to envisioning and execution of stakeholder engagement and consultant collaborations, ensuring successful project fruition.

Each phase of the project has been a source of passionate engagement for me, culminating in the delivery of high-caliber outcomes. Additionally, I have had the honor of participating in business development endeavors, crafting compelling business proposals and pitch presentations for the Design, Planning & Economics team at AECOM, further enriching my professional experience.

**Work experience in :**

**Urban Design and Planning**  
**Project Coordination**  
**Project proposals for business development**  
**Report writing**  
**Publication design**  
**Stake Holder Consultations**

**No. of Years of Experience :** 5.5 Years

**Education :** Masters in Urban Design  
Bachelor's in Architecture

**Previous Employers:**

2021 to 2024 - AECOM  
2018 to 2020 - Design Innovation Center,  
Ministry of Human Resource Development

**Achievements:**

Circle of Excellence at AECOM  
ISOCARP International Student award for Masters' thesis

Thank-you for sparing time to review the work, I have attached sample work with brief descriptions.

*References and recommendations available upon request.*



# Content

01

02

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A



**Redevelopment of  
All India Institute of Medical  
Sciences (AIIMS), New Delhi**

**Role :**  
**Urban Design and Planning Manager**

# About

The All India Institute of Medical Sciences (AIIMS), founded in 1956, has been pivotal in advancing healthcare and medical education in India, it embarked on a transformative journey to re-establish itself as a comprehensive medical university with AECOM as the project management consultant to guide this ambitious redevelopment. **The Master Plan envisages to integrate all 5 campuses into One AIIMS Campus with wise land usage and optimized infrastructure for the next 50 years.**

**Project Area: 194 Acre**

## Scope of Project

**(i) Master Planning:** Pre-preparation and preparation of the Master Plan for the redevelopment of campus.

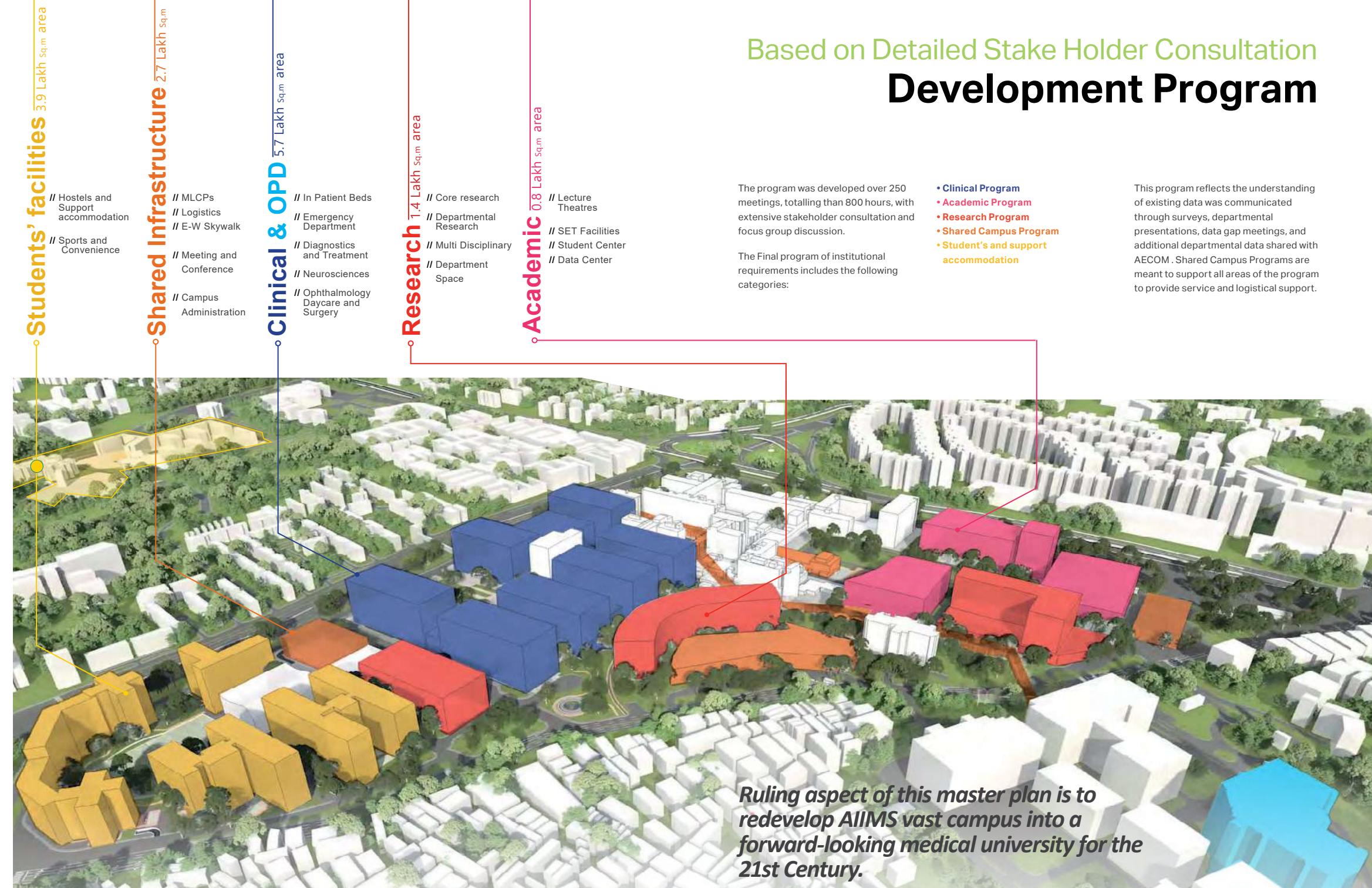
**(ii) Programme Wide Services:** Management, planning, administration and execution of the Programme/Project in general.

**(iii) Project Specific Services:** Management, planning, administration and implementation of a specific project or set of projects within the Programme/ Project.

**Master planning; Healthcare planning; Mechanical, electrical and plumbing (MEP); Quantity surveying (QS); Transportation planning; Landscaping; Architecture; Urban design; Program management; EIA and Sustainability.**

## Role :

- // Managed **194-acre brown-field site** documentation and building transition
- // Aided in **university campus design** for 194 acres, focusing on **sustainability and pedestrian spaces**. Developed **900m sky-walk design and public space integration**.
- // Executed **project dossier design** for the Prime Minister's Office.
- // Prepared **PowerPoint for stakeholder consultations**, including for the Prime Minister's Office in India.
- // Coordinated **master plan graphics** and reports for **eight deliverables**; led two.



## Master Plan FOCUS

1

Built form and Design

2

Sustainability

3

Green Spaces

4

Mobility

5

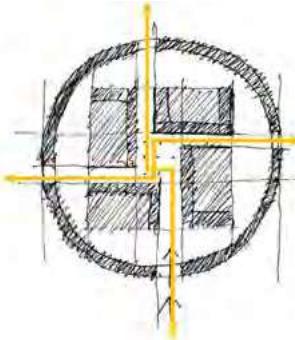
Safety and Security

6

Infrastructure

# Inclusive and Green Public Spaces Urban Courtyards

## Zoning Intent and Strategy



Holistic health and wellness is sustained by seven pillars:

**Physical, Emotional, Social, Spiritual, Intellectual, Vocational, and Environmental.**

These pillars give you a sense of how to work towards your optimal wellness. Our aim in design is to adopt and absorb these pillars and make the hospital a holistically healthy space.

## Courtyard of AIIMS Campus

These courtyards have been given meaning based on the activities associated with the adjoining building. Irrespective of its type, courtyards form foundation of holistic healing in healthcare institutes. It allows minds to break away from concerns, reconnecting with nature.



Plaza Courtyard



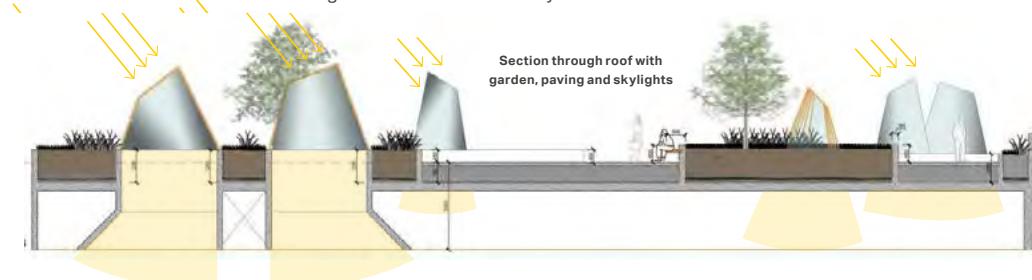
Green Terraces

The terrace plans of different buildings are influenced by each one's unique structural features.

The Meeting centre terrace has green edges with gets gradually paved at the centre. Clinical towers on the other hand have terraces in curvy and flowing pattern.

The at Student Centre terrace is rather a mixture of many color contrast elements. It has seating, wooden maintenance strip accompanied with stone paving, and tress along the terrace edges for safety. Basic Research Science building tops terraces with cement planters and low height shrubbery. It also has conical glass cut outs to naturally illuminate the

labs below. In contrast are terraces in student housing, which features seating and tall shrubbery. Logistics terrace have planned in manner that it demands low service and maintenance.



Section through roof with garden, paving and skylights

## Green Infrastructure

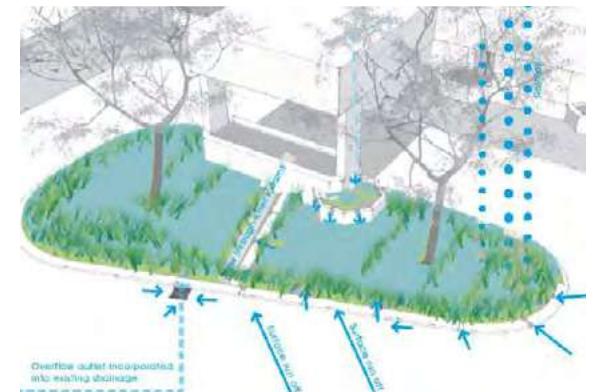
### Miyawaki Method of plantation

The Miyawaki method is community-based and people-centered and can be used to reclaim and re-imagine public space for the benefit of people and the planet



### Rain Garden

Rain garden is not to be confused with any pond or wetland. As, rain gardens are intentionally planned infrastructural setup, comprised of shrubs, perennials and flowers, which help to retain 30% of more water, creating more scope for rainwater harvesting.



### Healing Garden

Humans always feel close to nature, and gardens become the fittest retreat to patients, their family members, hospital staff and visitors, sharing warmth, light and natural charm.



# Pedestrian Experience All-Weather Skywalk

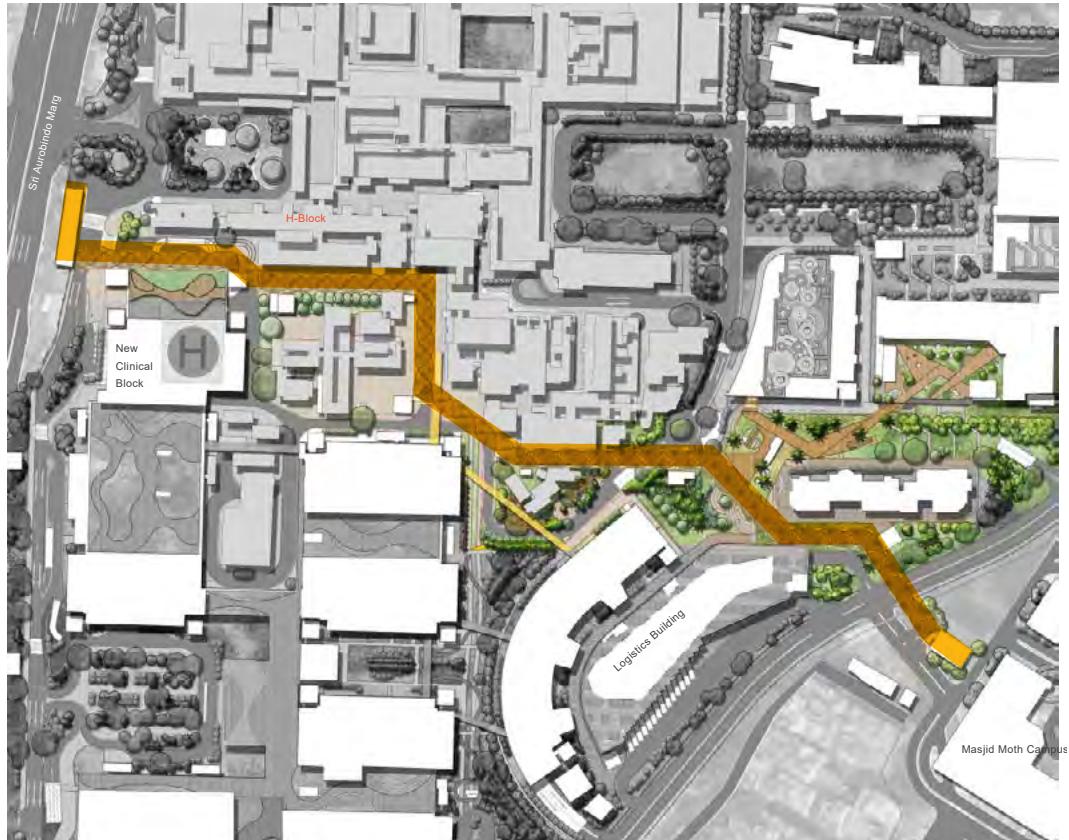
No. of floors: 1  
Total BUA : 11,000 Sqm.

The Skywalk, running 900+ meters from east to west, stitches together the entire campus, **providing a patient-friendly 100% accessible route**, with climate control, elevators, escalators and travelators, in a climate-controlled all-weather envelope. As visitors are whisked along, from the concourse of AIIMS Metro Station to the Masjid

Mod campus, they will have views of the campus, while avoiding all worry about finding their own way. Expected to serve over 40,000 footfalls per day, the Skywalk will be one of the most-visited buildings on the campus. With its simple but elegant design, made of renewable resources, it is sure to leave a lasting impression.

Faculty and students are also sure to use this convenient route across campus, which will also allow them access to the Town Centre Plaza.

Fire towers designed to house **public amenities**, including public toilets, lifts, ATMs, benches for resting.



+40K/day

Expected footfall on the sky-walk is 40,000 people/ day making it the most visited building on the campus.

It houses public amenities like toilets, lifts, ATMs and benches.

+900m

More than 900 meters of all weather pedestrian bridge for AIIMS patient, staff and students, providing easy access to OPD at Masjid Moth. Direct access from unpaid concourse of AIIMS metro station is provided. It also connects to various proposed buildings.

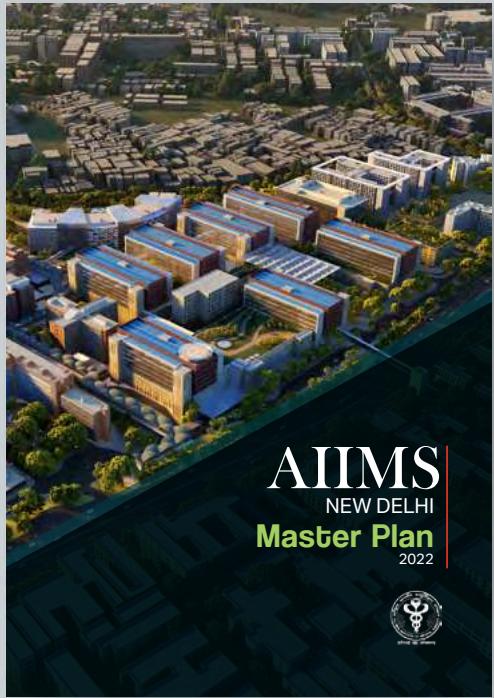
13m

Vertical connections to the buildings and access controlled connection to the basement, thereby creating a unified pedestrian oriented campus.

1

Large Floating plaza that acts as a spill out for student centre and Basic Sciences building onto the 3 levels of public realm at the town center, working as a space for interaction.

# Project Dossier 80 Pages



**Vision for Redevelopment**

**The Trinity Mission**

- Education** Dissemination of learning
- Patient Care** All round Healing
- Research** Exploration of ideas

*The creation of a state-of-the-art HEALTHCARE UNIVERSITY that invigorates the environment for ALL ROUND HEALING (by enhancement of Patient-Care) & EXPLORATION OF IDEAS (by advancement of research) resulting in DISSEMINATION OF LEARNING (through enriched Teaching).*

**ONE AIIMS APPROACH**

- Integrating Medical Campus with Academic, Research, IPD and OPO
- Clinical, Academic, Research and Residential components at each optimized, and arranged on the campus, in an efficient and functional way

**UPGRADED INFRASTRUCTURE**

- Sustainable and green Campus
- Smart Infrastructure
- Digitalized Services Design
- IGBC Certified Green Campus
- Pedestrian Oriented
- Resilient IT Spine

**RESEARCH & ACADEMIC FOCUS**

- Increased Student Capacity to approx. 7500
- Increased Research capability by approx. 3 times
- Plan for International Collaboration, translational research facilities, New Scientific Workspaces Flexibility and Adaptability
- High Technology

**PATIENT CENTRIC APPROACH**

- De-congesting the existing main Campus by moving OPO to Maudod Model Campus
- 2000 new beds in the new hospital
- High Capacity of Emergency Department
- Increased focus on Day Care
- Higher Number of Critical care beds
- Reduced waiting time

**ENHANCED SOCIAL INFRASTRUCTURE**

- Holistic campus environment
- Enhanced Amenities for students and staff
- Sports and recreation facilities for common use
- More than 5,000 new hostels rooms & residences
- Walking & Cycling friendly campus



**Future Proof and Robust Infrastructure Shared Facilities**

Centralized utilities and logistics for efficiencies of scale and ease of maintenance.

And a patient-centered solution for connecting the opposite ends of the campus, in the easiest, most convenient way.

**Approx. 2.7 Lakh sqm of Built-Up Area**

**Shared Program**

- North MLP**
  - MFLP air voice (ground & level 1)
  - 5 levels of parking (above ground)
  - 2 levels parking (below ground)
- South MLP**
  - Moratorium
  - MFLP air voice
  - 5 levels of parking (above ground)
  - 2 levels of parking (below ground)
- East-West Pedestrian Bridge**
  - Pedestrian all weather connection
  - Enters into metro station to Maudod Model Campus
  - 900+ meter long
  - Public amenities clustered with 500+ meter long ATM road
  - Guest house
  - Meeting rooms/collaboration
  - Gymnasium
- Logistics centre**
  - General Material management - Approx. 6000 Sqm
  - Diabetics department
  - Kitchen - Approx. 8000 Sqm
  - Laundry - Approx. 3000 Sqm
  - Medical management - Approx. 6000 Sqm
  - Pharmacy - Approx. 2000 Sqm
  - Data centre - Approx. 2000 Sqm
  - Facility offices, support & maintenance

**Accommodation for Student and Support Hostel Accommodation**

Over 600 residential units have been envisaged in the master plan. The residential expansion is focused on Trauma Centre Block and East Ansari Nagar Campus. Staff and post-graduate residential units have been integrated into the main campus through underground existing tunnel. Rest of the accommodation planning for post-graduates and visiting faculty has been kept at East Ansari. Whether single or shared occupancy, the five designs offer basic amenities of food, dining, study, recreation and sleeping with daily football and cricket matches.

**Multi-Purpose Sports Arena**

The ground floor of the sports arena has common amenities for AIIMS staff and students, it includes shops, food outlets, food court, daily needs shop with large seating areas in the bays ...

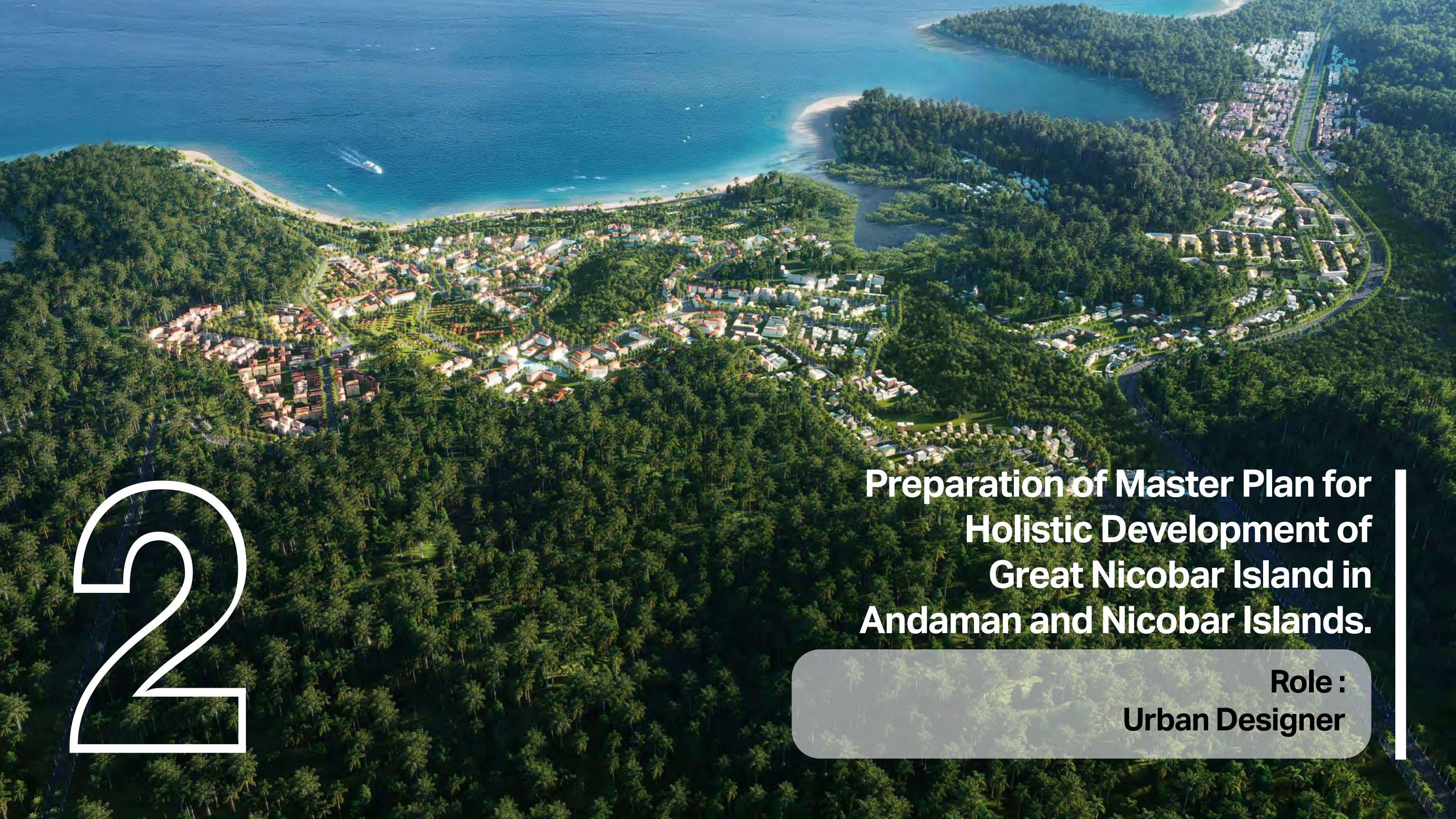
**Sports facilities**

First, second and third floor has basketball courts, tennis courts, Olympic size swimming pool, squash court and gym for staff and students.

**+50** Teaching departments and Centres  
**+100** Planners, Architects and Engineers  
**+250** Stakeholder Meetings  
**+800** Hours of discussion with AIIMS's staff and faculty in nine months



2



Preparation of Master Plan for  
Holistic Development of  
Great Nicobar Island in  
Andaman and Nicobar Islands.

Role :  
Urban Designer

# About

The National Institute for Transforming India (NITI) Aayog appointed AECOM India Pvt. Ltd. ('AECOM') for the project.

The holistic development project of Great Nicobar Island has four major components- **International Container Transhipment Terminal (ICTT)** (7.39 sq.km + 2.27 sq.km reclamation area),

**International Airport** (8.45 sq.km + 0.71 sq.km reclamation area), **Power Plant** (0.39 sq.km) and **Mixed Use Township** (149.87 sq.km) in its Phase 1 development of 166.1 sq.km area along the eastern and southern coastline of the island.

The goal is to enable the development of a diverse and robust economy based on maritime services and tourism.

## Project Scope

The scope of AECOM's services under this commission is to analyse the potential and requirements of the new city, develop the master plan, prepare the project reports for key infrastructure works, and identify the implementation and financing modalities of the new city.

Draft master plan submitted, Preliminary engineering design of infrastructure submitted, Env and CRZ clearance has been obtained by AECOM.

## Role

Preparation of draft master plan and zonal development plans in line with national codes.

Coordination with sub-con for developing project renders

Preparation of project magazine for National Institute of Urban Affairs, India.

# 910 sq.km

Land Area



81%

Of island area will remain Biosphere Reserve



88%

Of island area will remain Green



82%

Of island area will continue to be as Tribal Reserve



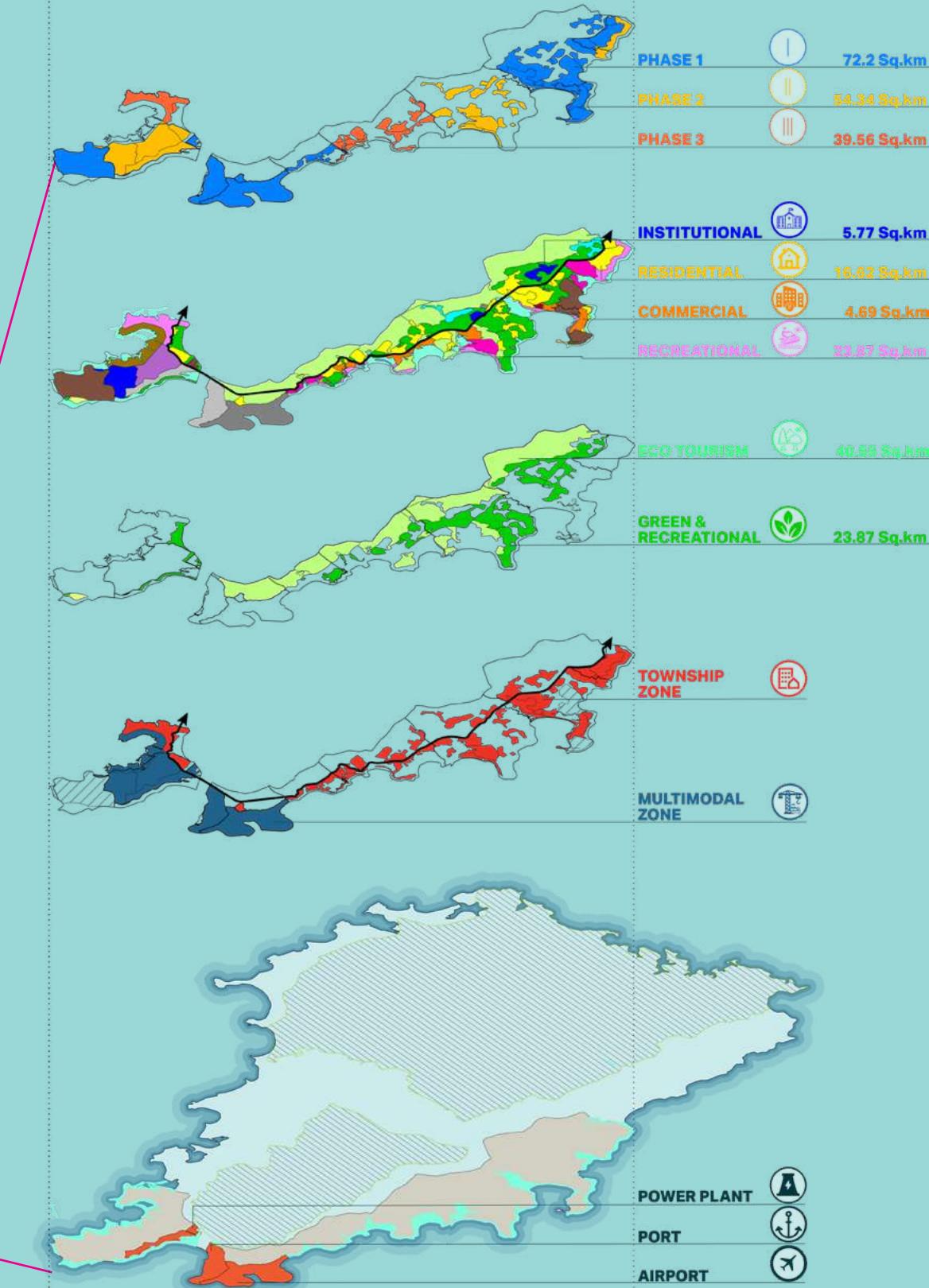
100%

area under National Parks remains preserved



100%

area under Eco sensitive zone remains preserved



# Zonal Plan Development Area

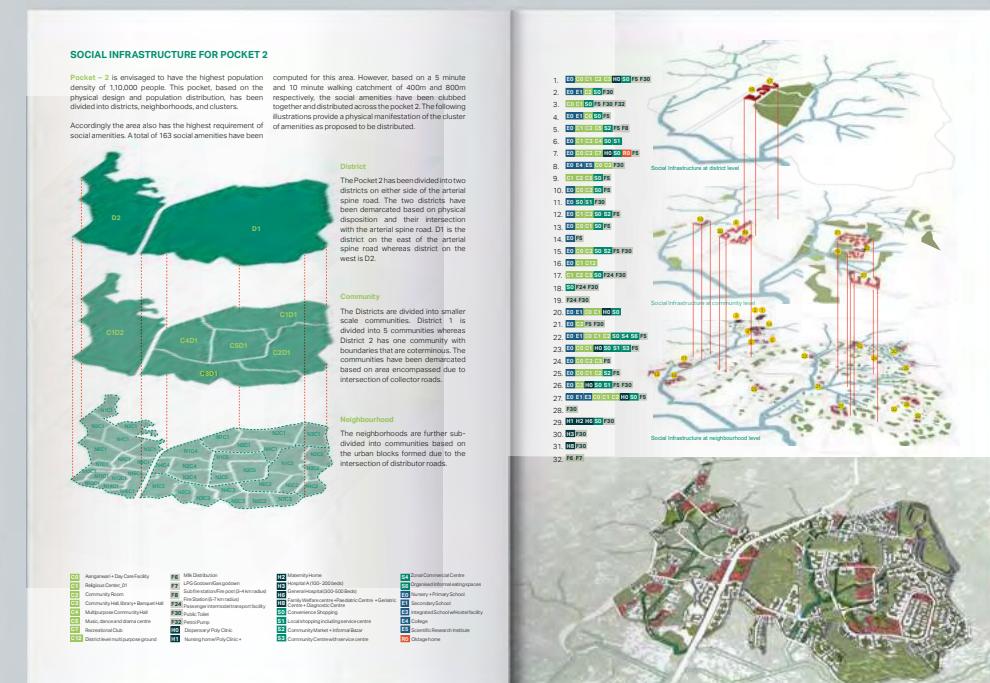
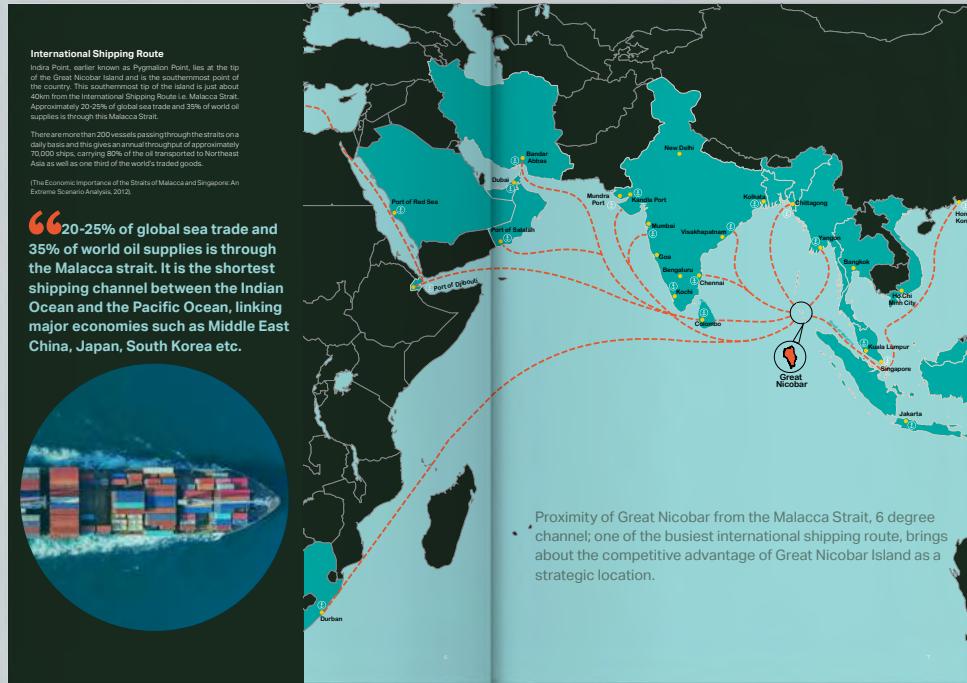
Zone has a mix of land-uses but is pre-dominantly residential in character. The zonal plan for this pocket hinges around a network ring and radial roads which are planned taking into consideration the lay of the land.

The built-form is organized taking into consideration the natural drainage network which has been preserved by providing a 10m buffer around the drainage channels.

This buffer is envisaged as a linear park and a public walkway with tree lined avenue which connects the different areas within the zone



# Project Dossier 78 Pages





3

Jeddah North Master Plan Project,  
Saudi Arabia

Role :  
Urban Designer

# About

ROSHN is leading the development of the Community Development Program that aims to close the current housing gap through the delivery of housing units across 6 or more townships, located within Riyadh, Jeddah, Dammam, Makkah, Assir and Al Kharj. Within Jeddah governorate, the ALAROUS site is situated within the Telal Jeddah district.

**Project Area:** 399 Hectare

## Role :

- // Worked on innovating the work flow system to produce DCR for more than 3000 plots in the town ship by connecting Adobe InDesign, MS Excel and AutoCAD.
- // Assisted in preparation of the chapter "Public Realm Guidelines"
- // Worked on CAD plans, Graphic illustrations doe the urban design guidelines

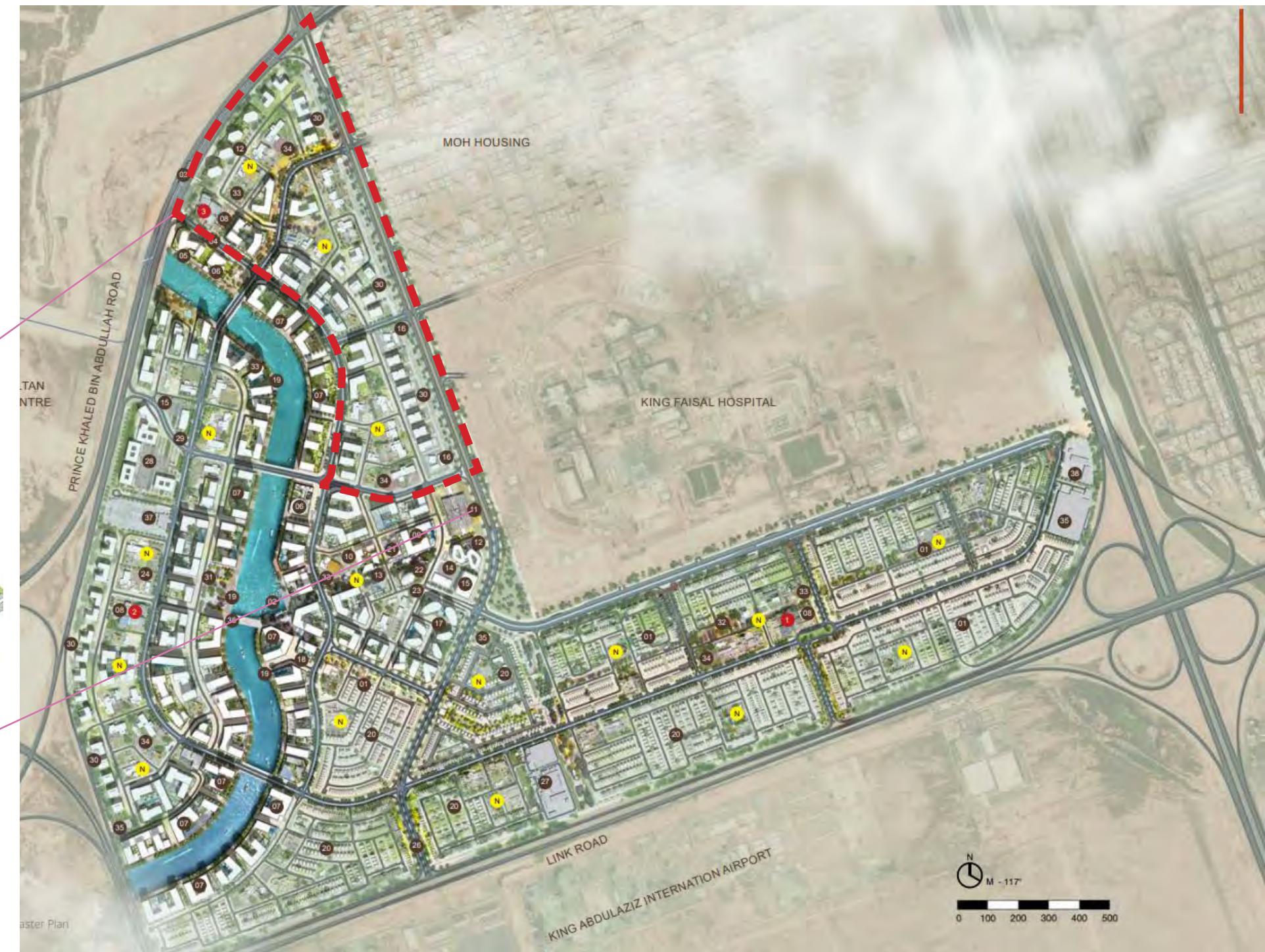


## Scope of work :

To develop '**Urban Design Guidelines**' document for ALAROUS is meant for ROSHN, and the individual entities (developers) and individuals **in order to control the outcome of proposed developments**. Urban design guideline is concerned with the physical characteristics of the city and the implications of design and planning decisions for the city-wide **urban development and public realm**

## Achievement:

Awardee of "**Circle of Excellence**" by AECOM for "**Major time saving and higher quality product**"



International Quarters (above) is volumetric representation of one of the 6 distinctive precinct of the township. **It is a vibrant mixed neighborhood. It hold major waterway entrances, hospitalities, retail, recreation and outdoor sports area.**

Alarous Master Plan



## RCSI Medical University of Bahrain (RCSI-MUB)

Role :  
Project coordinator and editor

# About

AECOM India has been appointed by RCSI Medical University of Bahrain (RCSI-MUB) for expansion of RCSI till 2034.

**Project Area:** Approx. 16,000 S.qm

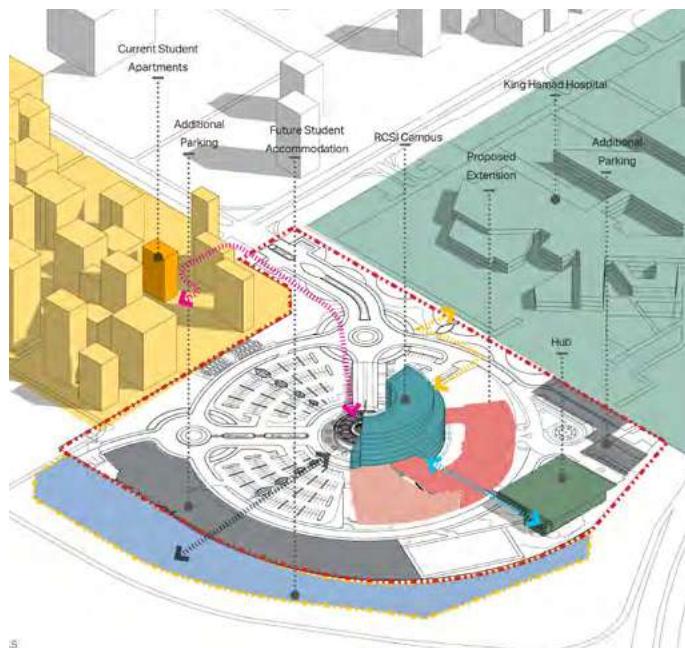
## Project Scope :

Master Plan; including healthcare planning and LEAN process improvement lead, concept to tender document stage for the project.

The area program has a conference/exam center, clinical simulation lab, **library, student center, offices, pedestrian bridge to the student sport & recreation center, outdoor courtyard space** and planning for backfill spaces in the existing building.

## Role:

- // Project coordination and communication
- // Ensuring implementation of QAQC mechanisms
- // Report structuring,writing and editing
- // Coordination for Good-for-construction drawings.



# Project coordination and editor Feedback

## Aishwarya, Talluri

**From:** Robinson, Jonathan  
**Sent:** 23 December 2022 00:31  
**To:** Aishwarya, Talluri  
**Cc:** Laitinen, Curtis  
**Subject:** Re: RCSI-STAGE 1- Concept report DRAFT - For QAQC/content review

Hi Aishwarya,

Fantastic job pulling this all together. Will get my full comments through tomorrow but the majority are on formatting of images, placement etc. just need to make sure the images / photos align, text is the same, they have borders or don't.

Again, great job so far and will touch base in the morning.

Cheers  
Jonathan

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**From:** Aishwarya, Talluri <talluri.aishwarya@ecom.com>  
**Sent:** Thursday, December 22, 2022 3:31:10 PM  
**To:** Altawash, Zaid <Zaid.Altawash@ecom.com>; Metheringham, Michael <Mike.Metheringham@ecom.com>; Koigi, Stephen <Stephen.Koigi@ecom.com>; Laitinen, Curtis <Curtis.Laitinen@ecom.com>; Knox, Joanne <Joanne.Knox@ecom.com>; Le Moal, Nicolas <Nicolas.LeMoal@ecom.com>; Nelson, Henry <Henry.Nelson@ecom.com>; Canning, Jonathan <jonathan.canning@ecom.com>; Kurup, Siju <siju.kurup@ecom.com>; Datla, Ravindra <Ravindra.Datla@ecom.com>; Resuello, Adonis <adonis.resuello@ecom.com>; Sharma, Hirdesh <Hirdesh.Sharma@ecom.com>; Singh, Rohitendra <rohitendra.singh@ecom.com>; Gopalakrishnan, Rajesh <Rajesh.Gopalakrishnan1@ecom.com>; Thomas, Vinay <Vinay.Thomas@ecom.com>; Shaikh Abdulla, Maher <maher.alshaikh@ecom.com>; Rajan, Anoop <Anoop.Rajan@ecom.com>; Andrews, Roslyn <roslyn.andrews@ecom.com>; Ashar, Dhwani <Dhwani.Ashar@ecom.com>; Bansal, Manik <Manik.Bansal@ecom.com>; Sharma, Ashwani <Ashwani.Sharma@ecom.com>; Kumar, Naresh <Naresh.Kumar8@ecom.com>; Abdul Kader, Mohamed A. <Mohamed.AbdulKader@ecom.com>  
**Cc:** Robinson, Jonathan <Jonathan.Robinson@ecom.com>; Singh, Anshu <Anshu.Singh2@ecom.com>  
**Subject:** RE: RCSI-STAGE 1- Concept report DRAFT - For QAQC/content review

Dear all,

For the process of reviewing please follow the below steps :

1. Download a copy of the draft report from the link [PDF 20221219\\_Current status \\_CONCEPT REPORT.pdf](#) ( or from MS Team->RCSI->Stage 1-> Report->Draft report)
2. Add your comments in the offline file
3. Add your signature in the " QAQC Table" on page 2
4. Rename the file as 20221222\_DRAFT\_CONCEPT REPORT\_DISCIPLINE NAME.pdf"
5. Upload the document in the link here : [QO QAQC STAGE 1](#)

In the QAQC Folder – you can look at comments giving by other disciplines, on your section. Therefore, after everyone has uploaded their commented copies of Draft report, please open each document, in the QAQC folder to gather comments for your section, from other disciplines.

Regards

Feed back by Jonathan Robinson, RCSI Project Manager, AECOM Bahrain



Knox, Joanne 27-12-2022 10:16

Good morning Aishwarya! That is fantastic news - well done! That was a lot of hard work on your part (I saw how long the report was already before it was completed...) Thanks so much for your support and for keeping us all organised and in line 😊

Feedback by Joanne Knox, Associate, Fire Life Safety .

Received

Given



Curtis Laitinen [in](#) · 1st

Technical Director, Healthcare at AECOM India

January 24, 2024, Curtis managed Aishwarya directly

I have worked with Aiswarya on two medical university projects, including the Royal College of Surgeons, Ireland (RCSI), Bahrain campus expansion; and the All-India Institute for Medical Sciences (AIIMS), Delhi. The latter was a 1.51m square meter BUA mega-project, covering over 80% of a 194 acre brown-field site. It was a complete university, with healthcare, education, research, faculty, staff and student housing, and shared support functions.

She has good architecture, graphic design and communication skills, and asks questions when something is not clear.

Aishwarya was a great team member and an important part of our team's internal communications, tracking coordination issues and following up with other team members. She works well with others and brings enthusiasm and positive energy to a project. She's organized, detail-oriented, reliable and gets things done.

If a firm is looking for a motivated, growth-oriented architect/ urban designer, Aishwarya is highly recommended.

Feedback by Curtis Laitinen, Technical Director, AECOM India, Project lead RCSI and AIIMS New Delhi.

*is*

# DESIGNING

## WASTE

5

W

*possible ?*

- Strategies and spaces for zero waste cities



# Value of Waste

## Decentralised waste management system

### About

Urban waste integrated in society and environment through strategic planning and design . The project is a bottom-up approach to decentralize municipal solid waste management through innovation. It encompasses a rich diversification of urban design , architecture and Product design i.e. a multi disciplinary approach to world's pressing issue of municipal solid waste. The project addresses SDG 11 & SDG 12 directly.

**Client** Ministry of Human Resource Development , India - Design Innovation Centre.

**Site :** Modular & adaptable waste processing units for Residential neighborhoods Delhi, NCR.

**Responsibility :** Research and development for spatial design guidelines

**Role :** Project associate

### Achievement :

1. Recommendations considered by **NIUA** and DDA for **Master Plan Delhi 2041**.
2. RWA approval for Pilot.



# Projected role



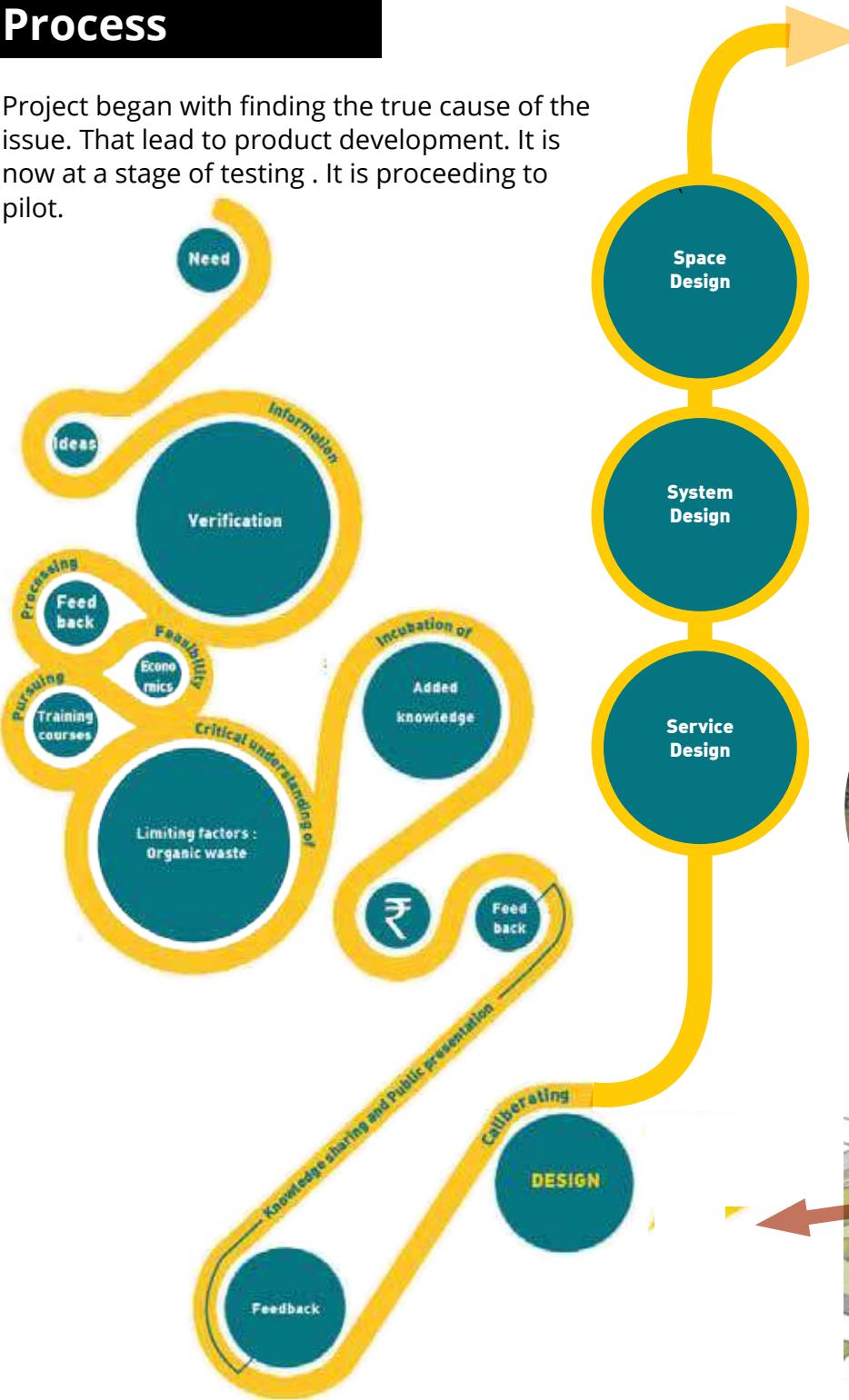
An Output oriented waste management point . Envisioned with an idea of value addition to its local context



Keeping the parameters of the Dhalao constant : Area , Volume and locational setting

## Process

Project began with finding the true cause of the issue. That lead to product development. It is now at a stage of testing . It is proceeding to pilot.

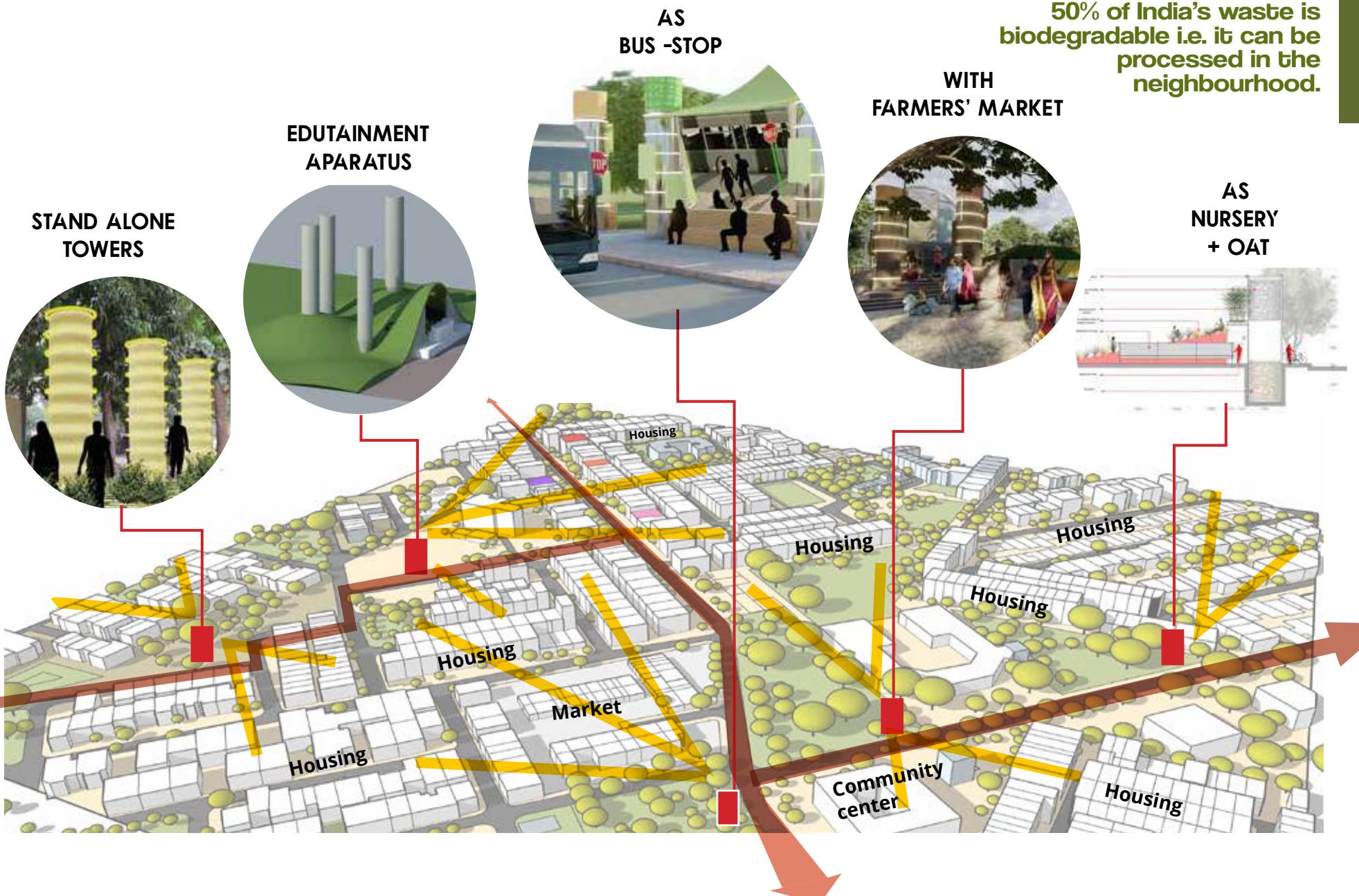


## Service Design : Network of waste management points at neighbourhood level

Neighborhood forms the cell of Indian planning document. 4-5 neighborhood together make a ward. Ward is the smallest electoral Unit in India where Urban Local body is formed. Political will is the strongest influence for urban transformation.

Decentralization is the need and trend of the current time.

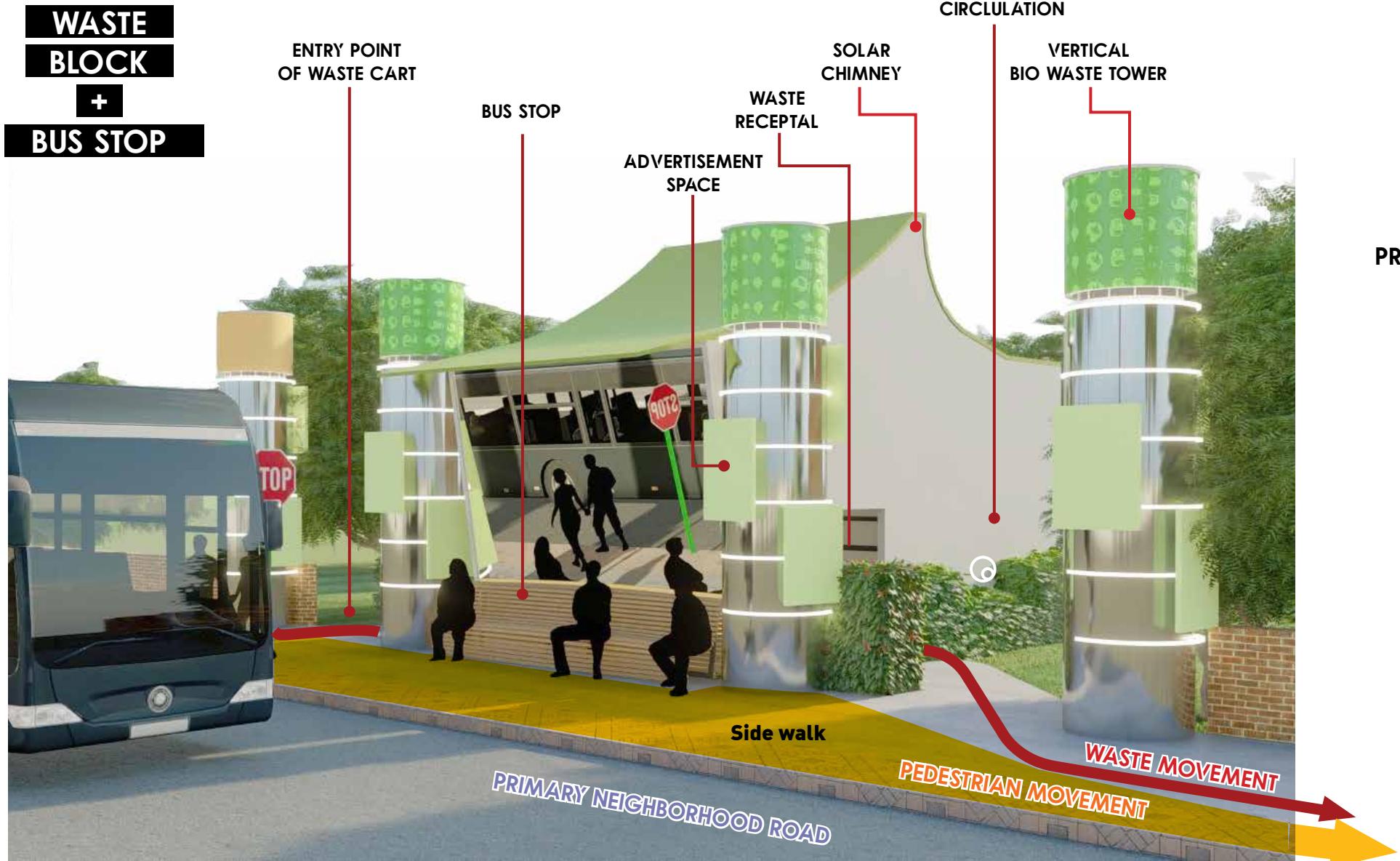
Therefore by aiming to manage and integrate waste at neighborhood level and networking at ward level opens a way forward for designing for entire city. Constants of the project are derived from existing infrastructure and innovating within the already existing foot print.



## Space Design : Design of waste-units as value-addition to the local community

**Waste block and additions** The waste block is modular unit. It is a customizable infrastructure. It has 3 elements : Waste management block , Composting tower and community engagement function. The innovation and design lies in bringing the 3 elements together. Design strategy and planning was to

integrate the Waste Unit with public realm and city services. The output of this project is a Process through which several designs can be produced , below are 2 designs : a bus stop , Farmers market with recreation facility.



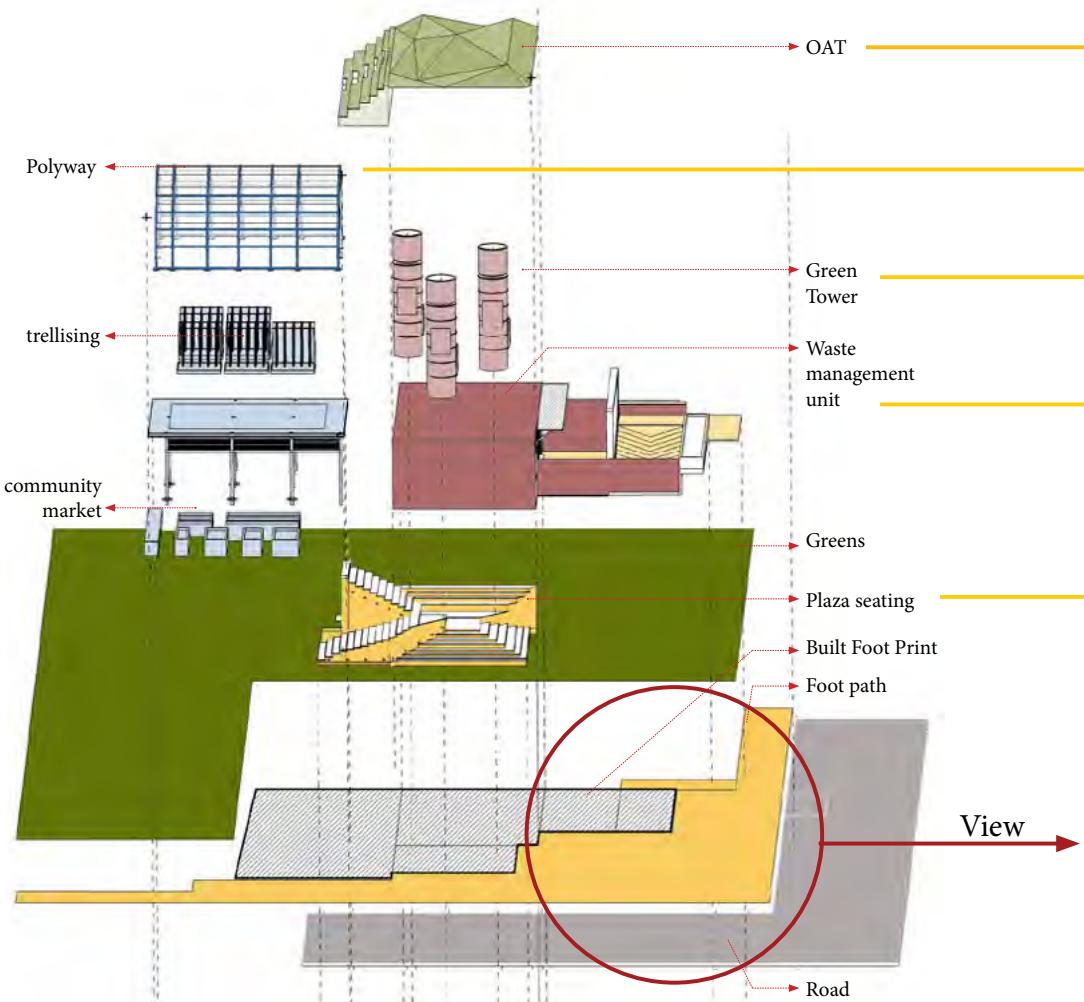
**What we need is infrastructure that has positive social and environmental side effects. Show casing methodology for creating hygienic and value enhancing points of contact with city-services.**

### PROJECT ATTRIBUTE

	10,000 Population
	Locational Setting: Public Greens
	Waste generated : 5000 Kgs of waste wet waste : 2500 Kgs Volume of wet waste : 8.5 m <sup>3</sup> ~ 9m <sup>3</sup>
	Area : 5m x 4m x 5m
	Type of waste processing : Aerobic Bio digestion
	Area Program : NURSERY, WORKSHOP, children's play & learning area, eating outlet

**WASTE  
BLOCK**  
+  
**FARMERS'  
MAKRET**  
+  
**OAT**

Waste Block seamlessly merges with the corner of the park.  
Activating the park by making it accessible.

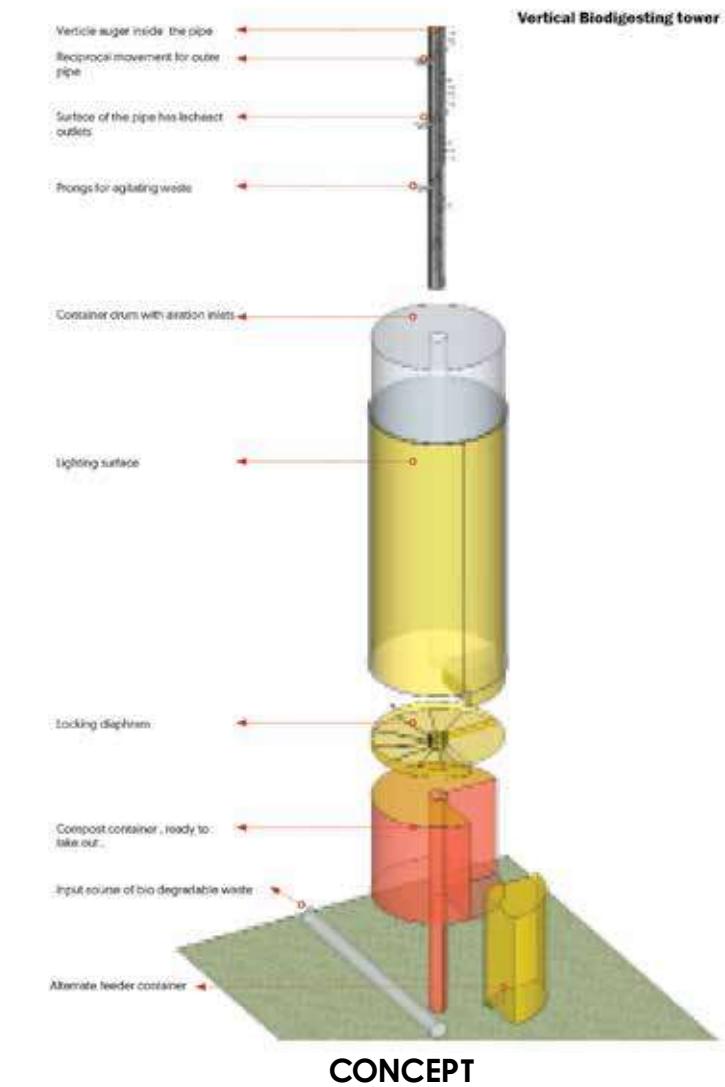
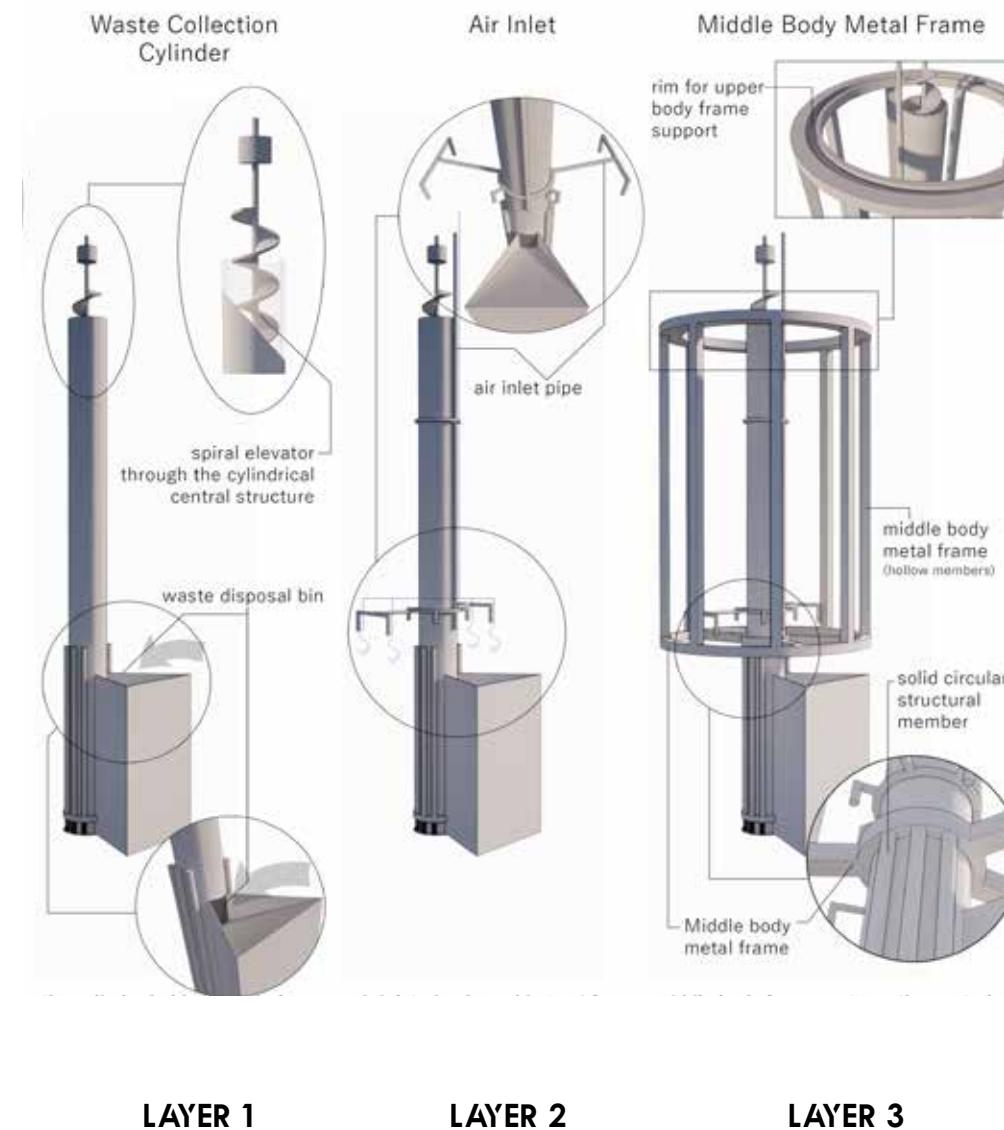


# System Design : Inventing hardware to integrate waste processing with public space

Design thinking methods to have a fresh perspective on composting waste.  
At community level .

## Product attributes and specifications

- Reduced time to 10 ten days
- Space reduction by ten times
- No green house gases
- Lachet and compost creation
- Under ground auger system enables flexibility of locating towers
- Several towers can function from one recipetal
- Scalable according to population.
- Odor and rodent proof
- Affordable and sustainable economic model for community



# Stakeholder involvement

Interview with waste collectors, segregators and informal workers



Visual Survey and space evaluation of existing infrastructure



Urban Local body of Gurugram: Public presentation

The project received 7 invites for pilot. Presented to 500 leaders and active citizens.



Focus Group Meeting  
Appointing community chiefs who took responsibility of each lane.

Testing a mock-up for composting

Engaging waste workers on campus to . It also instilled excitement, to see waste in a fresh light.



Community activation through workshops. The purpose was 2 pronged,

1. To understand real time challenges to initiate waste management.
2. To begin grassroots change and move towards sustainable resource Management.

Engaging Local Leaders

They are the most influential in mobilizing community and enforcing changing. Bringing them on board was of utmost importance.



Volunteering  
To find the problem worth solving.

Focus Group Meeting  
Appointing community chiefs who took responsibility of each lane.

Center for Science and Environment

I took support for scientific understanding of waste and trained for Integrated waste management .

# **Academic Work**

## **About**

This is a compilation of selected projects from masters in Urban design .

This section showcases :

Community participatory planning.

Eco sensitive approach for city expansion

Tactile urbanism

Urban Acupuncture

Sustainable revitalization of derelict spaces.

Each project underwent an extensive process of study - analysis- projectization.

The design focus is PEOPLE !

Plans reflect titration between market forces , city aspiration, political will , livelihood, mobility and enhanced livability.

Thesis is individual work , all other works are in teams.



# City Extension Proposal: Jaipur

## Capital City study

### Vision

**Sustainable Development** with ecology as the backbone of future development by Creating a city level Eco-tourism and recreation space with an experience of indigenous knowledge of Jamdoli, A tool for community revitalization.

To enhance skill diversification for economic resilience by introducing new learning infrastructure.

### ACADEMIC

Site : Jamdoli

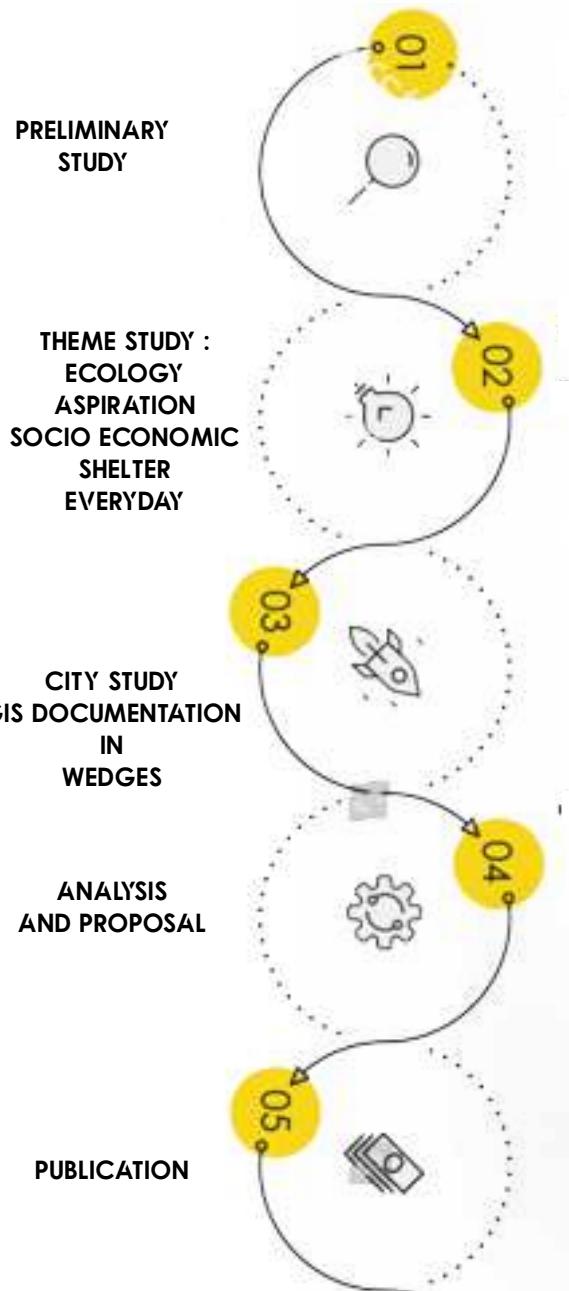
Responsibility :

1. GIS Map development for site study
2. Graphics and visualisation
3. Site study , analysis and design in team of 10 and 4 .
4. Coordinating the team

Additional responsibility: Publication design and Coordination for the city studio

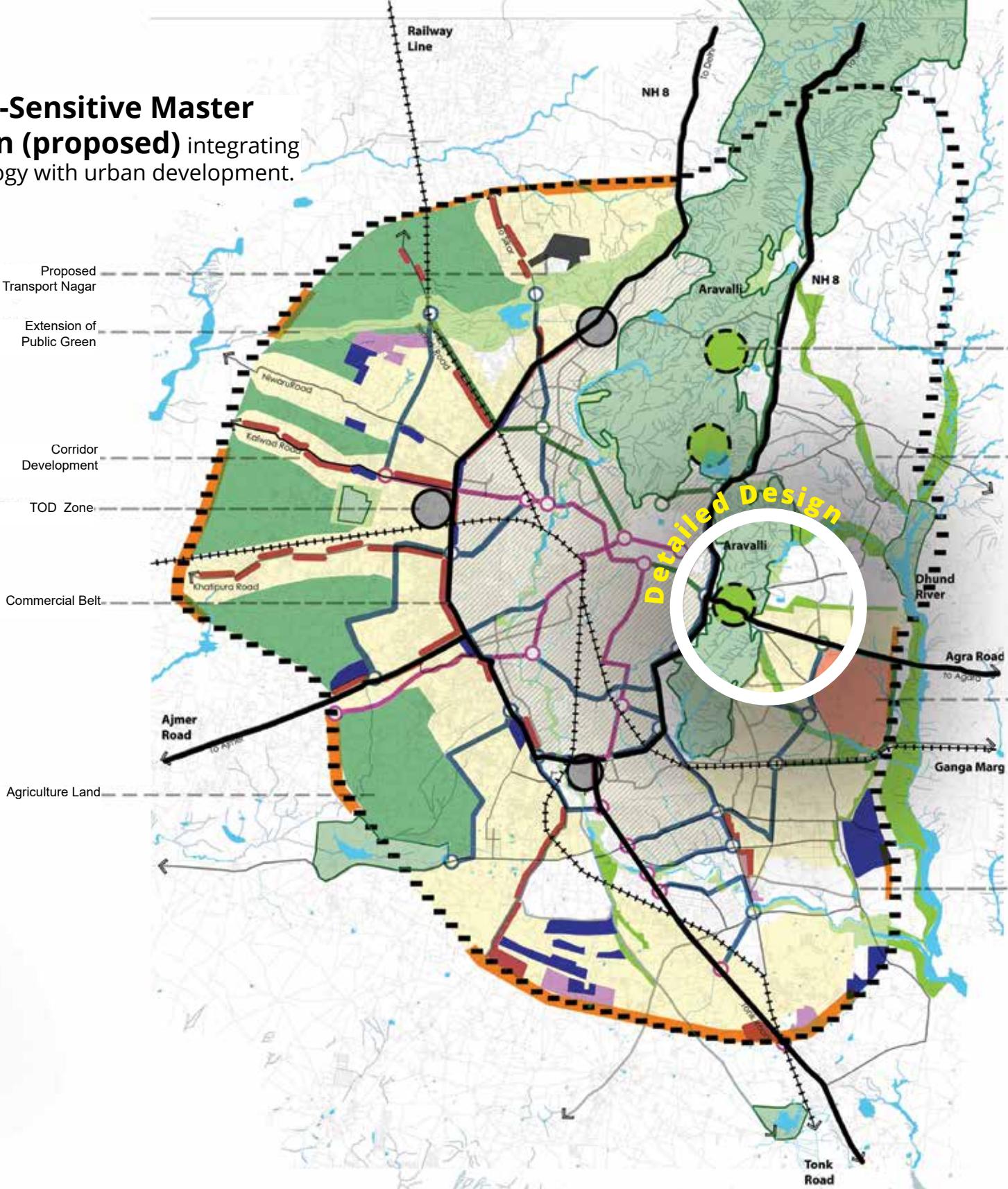
Studio Coordinator : Mr. Manu Mahajan

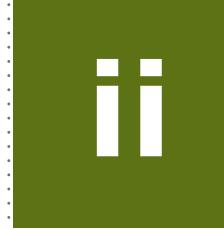
## Stages of Project



## Eco-Sensitive Master Plan (proposed)

integrating ecology with urban development.





# Publication Design

For the Department of  
Urban Design S.P.A

## About :

It is a 400 page report document that showcases the journey of 6 months of a city study studio.

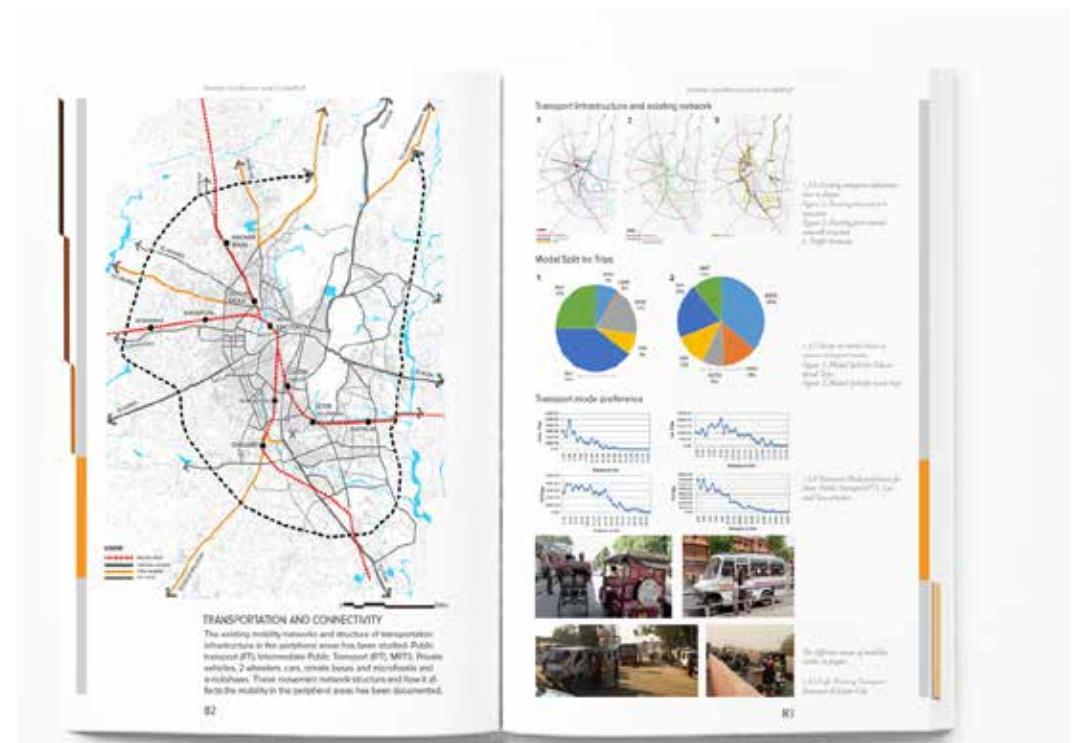
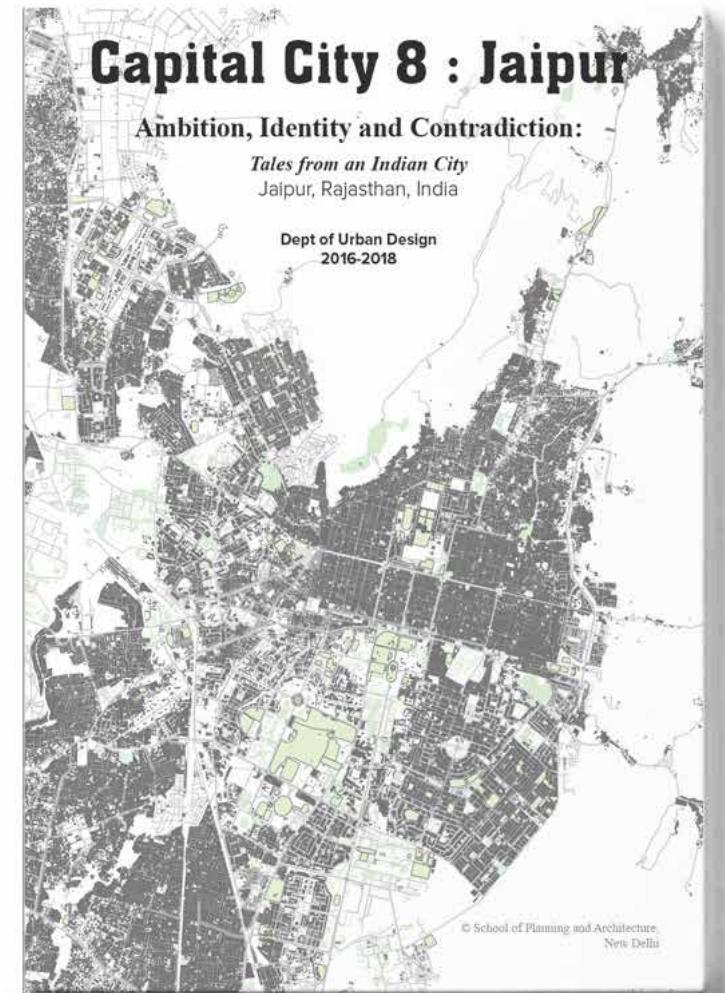
## Software:

Illustrator  
Indesign

## Responsibility

To design  
Organisation  
and edit

Work with the student cohort to produce book on capital city study, planning and design.



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# Revitalising Kishanganj

## Local Area Planning

### About

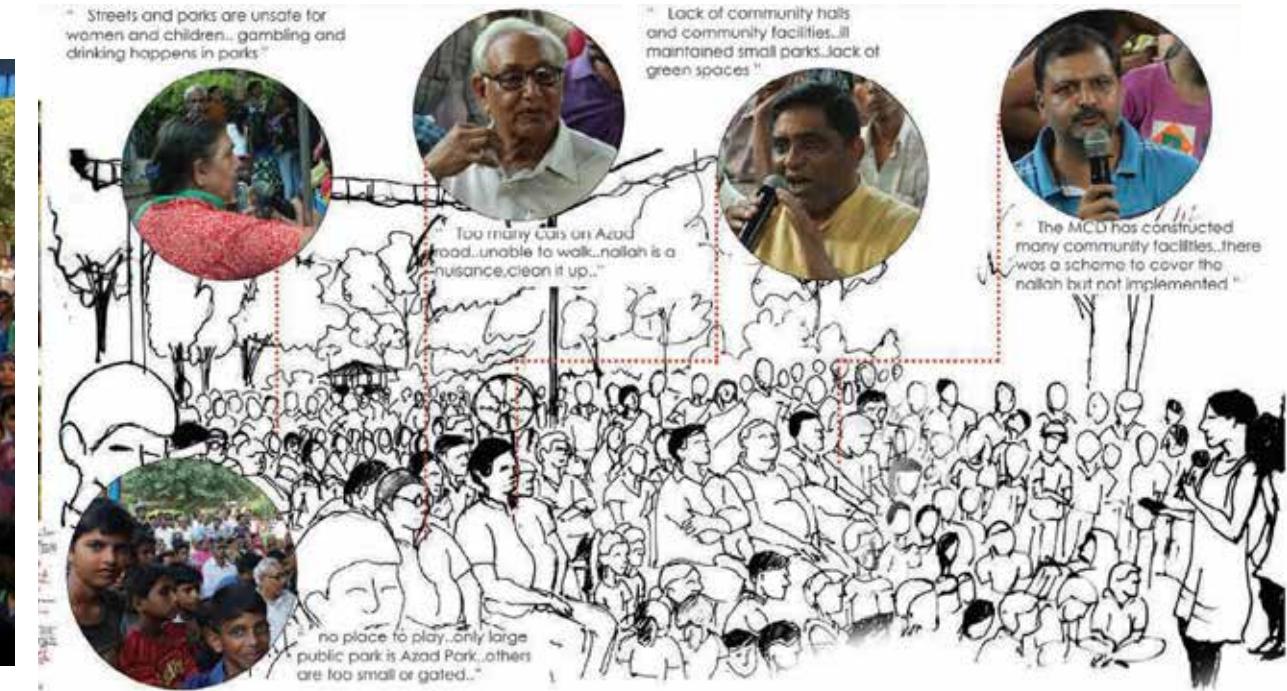
Kishanganj is one of the older sections of the city, being one of the first extensions beyond the walled city of Shahjahanabad, and as such is an important study in the development of old residential areas of the City.

**Vision:** To enhance the livability of this area and develop human resource by focussing on mobility, reviving historicity and ecology, strengthening everyday spaces and efficient usage of neglected areas.

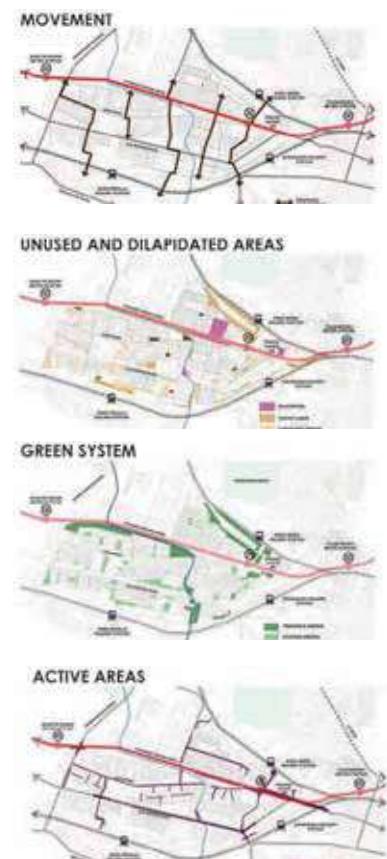
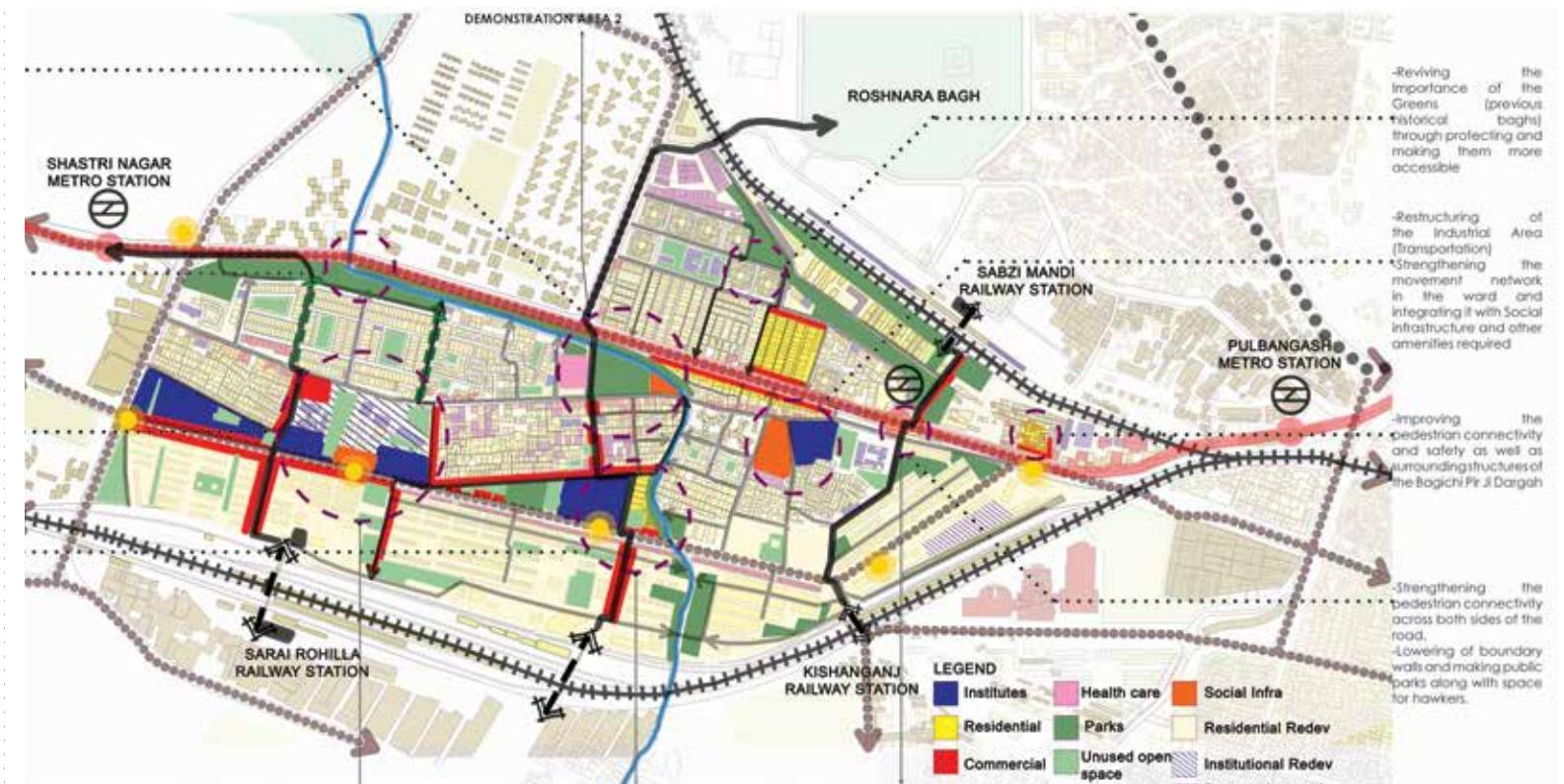
### Responsibility

- Study-analyse-plan & design in team
- To produce drawing and representation

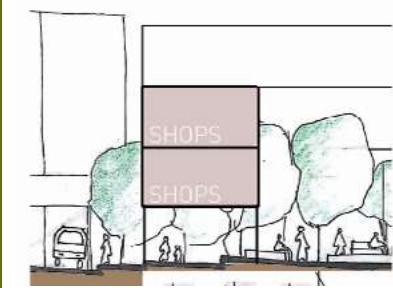
### Stake Holder Participation



### Proposed Structure plan focused on : Ecology, Mobility and Human Rsource development



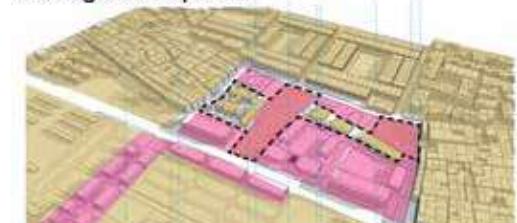
## ACADEMIC



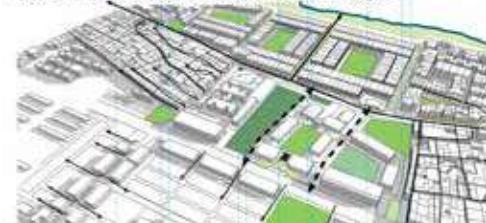
## MICRO NETWORK DEVELOPMENT



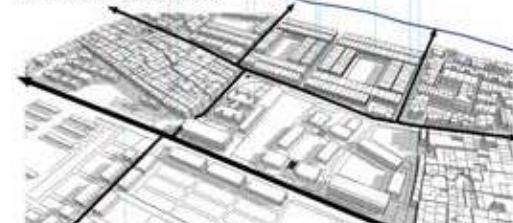
## Existing and Proposed



## Green Network & Pedestrian Linkage



## Movement network



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# Rurban Landscapes :

## Design strategy for agro ecological development

### About



Rapid coversion of agriculture for urban development. When scaled up to the level of country , raises several question , one important one being , food security.

**“**The project proposes to develop sustainable model to retain green belt in the form of productive landscapes that will retain the current ownership by farmers. To unveil urban design and planning guide lines for agro-ecological method of planing the extension of the city .  
**”**

SITE : Najafgahr , Delhi

THESIS GUIDE : Mr.Nishant Lall



The site is located in the water basin , making it a crucial location for farming as well as water harvesting capacity. The design site is located such that the Settlement areas are at a height and the valley areas are retained for farming practices

### //Anaaj Mandi Najafgarh

Main Producers of grains that come to Najafgarh

Haryana

Punjab

Uttar Pradesh

Najafgarh

#### Grain quantity

Off season: 4 Quintile  
In season : 15 Quintile

Purchase done by Middle men under the supervisio of govt. officer

#### Small Purchase

- Smaller Mandis
- Neighbourhood Shops

#### Paddy

Predominantly paddy travels back to Haryana

Wheat

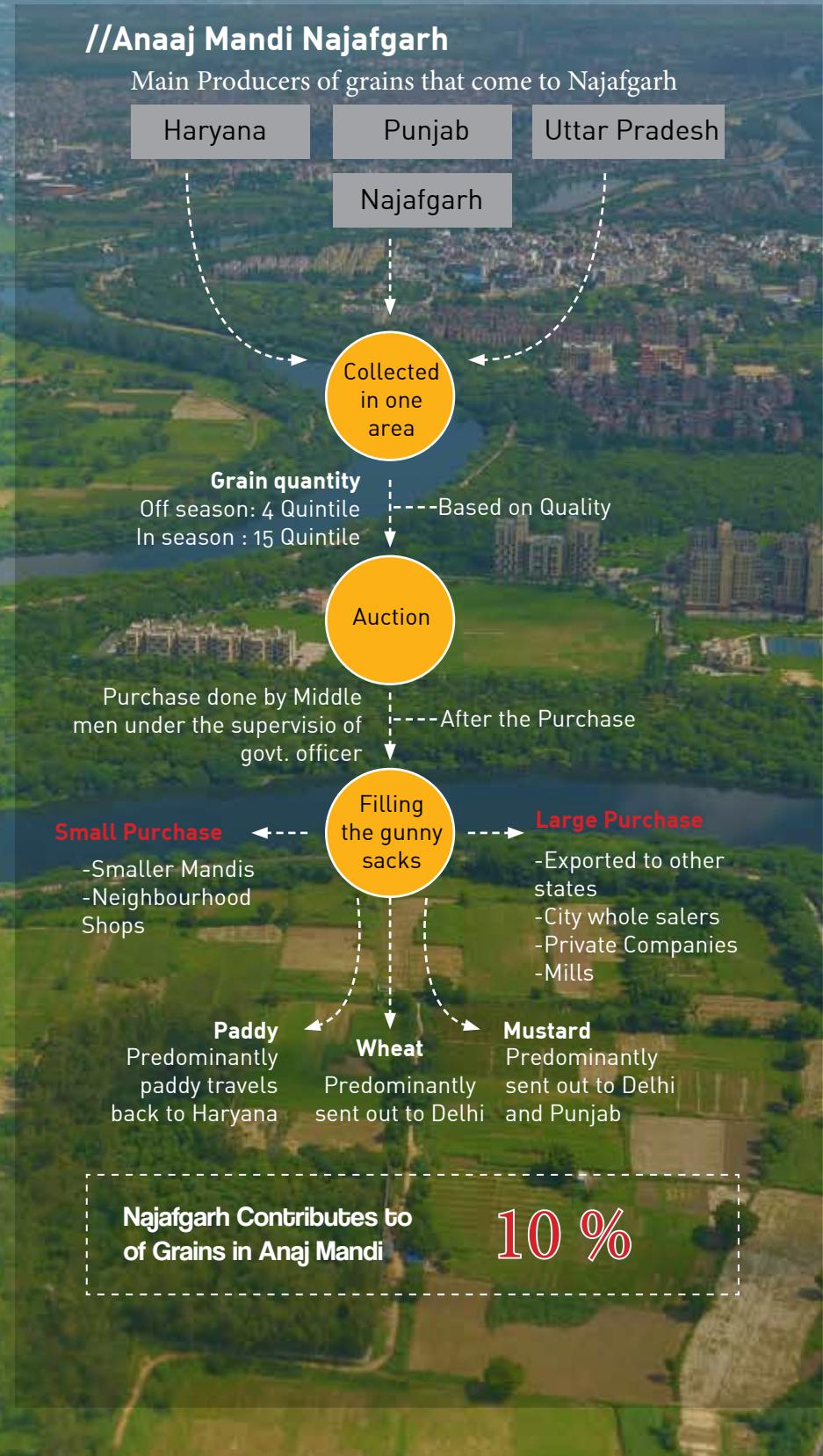
Predominantly sent out to Delhi

Mustard

Predominantly sent out to Delhi and Punjab

Najafgarh Contributes to  
of Grains in Anaj Mandi

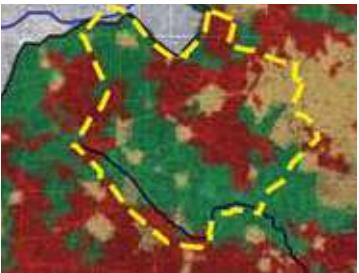
10 %



# Agro-ecology sensitive spatial development and planning

Mapping micro ecological resources . Using the factors of land fertility, draininge , seasonal drains , Socio cultural network of villages and occupational aspiration, Master plan was suggested that enables farming with indutrial mindset and can curb forced occupational shift and death of indegineous knowledge.

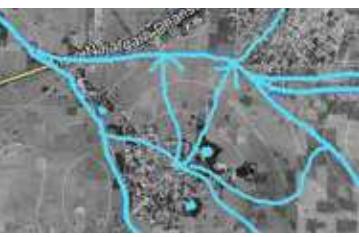
## NATURAL RESOURCES



**SOIL FERTILITY** Red being developable



**REGIONAL DRAINAGE**

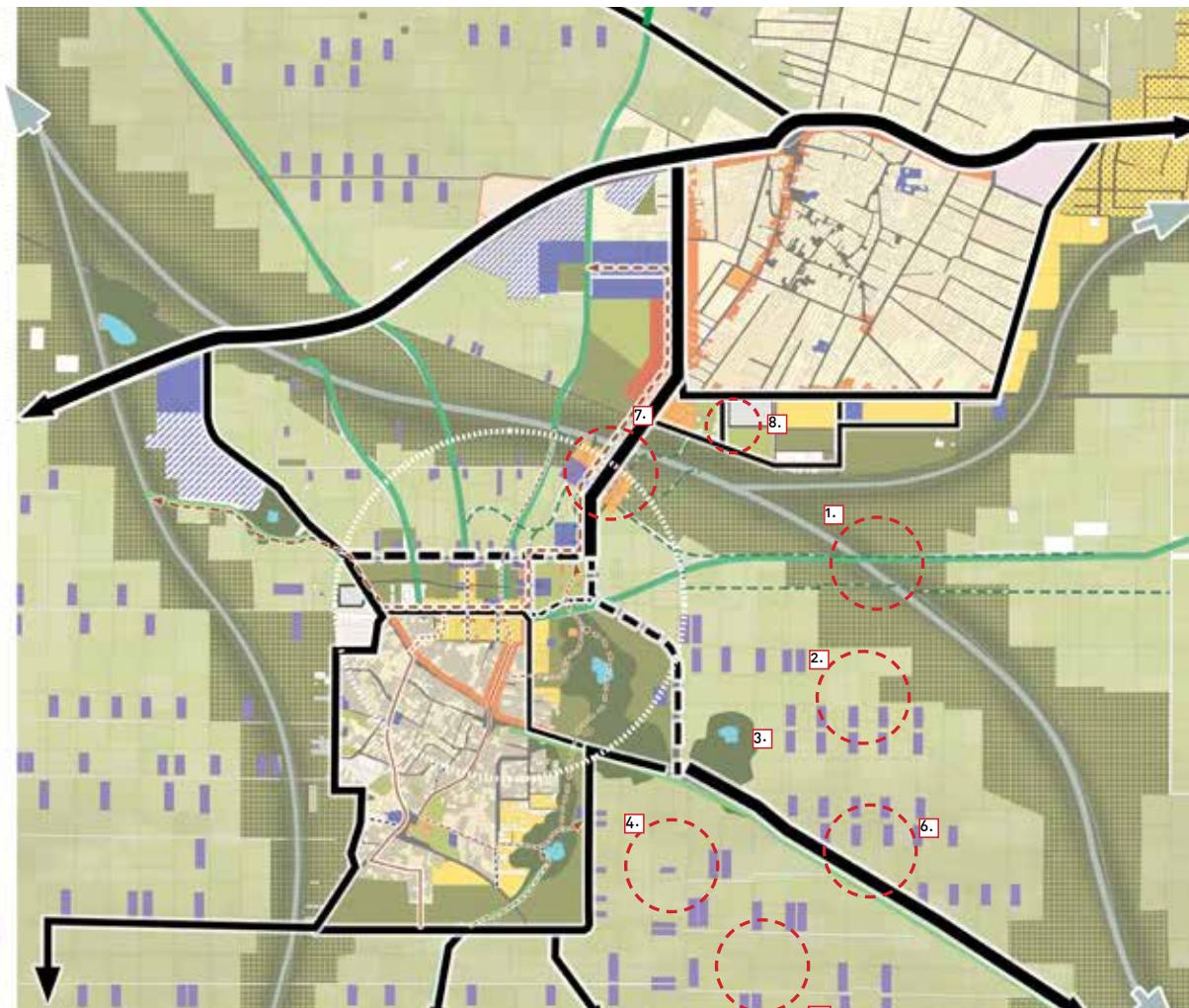


**SEASONAL DRAINS**



**GIS REFLECTION OF SEASONAL DRAIN**

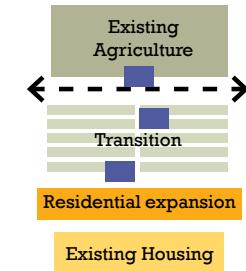
## Structure plan FOR RURBAN SETTING



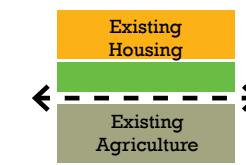
- |                       |                   |                             |                              |                      |                       |
|-----------------------|-------------------|-----------------------------|------------------------------|----------------------|-----------------------|
| Existing institutions | [diagonal lines]  | Bioswales                   | [green wavy line]            | Proposed roads       | [dashed arrow]        |
| Existing roads        | [black line]      | Existing pedestrian Network | [orange double-headed arrow] | Proposed Residential | [yellow line]         |
| Existing Forest       | [dark green bar]  | Proposed Institutions       | [blue bar]                   | Proposed Mixed Use   | [orange bar]          |
| Poly houses           | [purple bar]      | Agro forestry               | [brown bar]                  | Proposed pedestrian  | [orange dashed arrow] |
| Seasonal Drains       | [wavy line]       |                             |                              |                      |                       |
| Farm Land             | [light green bar] |                             |                              |                      |                       |

## Spatial plan for rurban setting

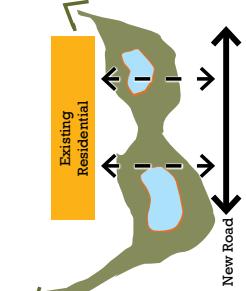
### Northern Edge :



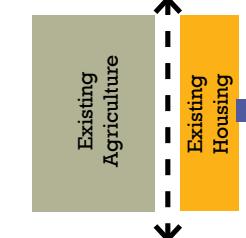
### Southern Edge :



### Eastern Edge :

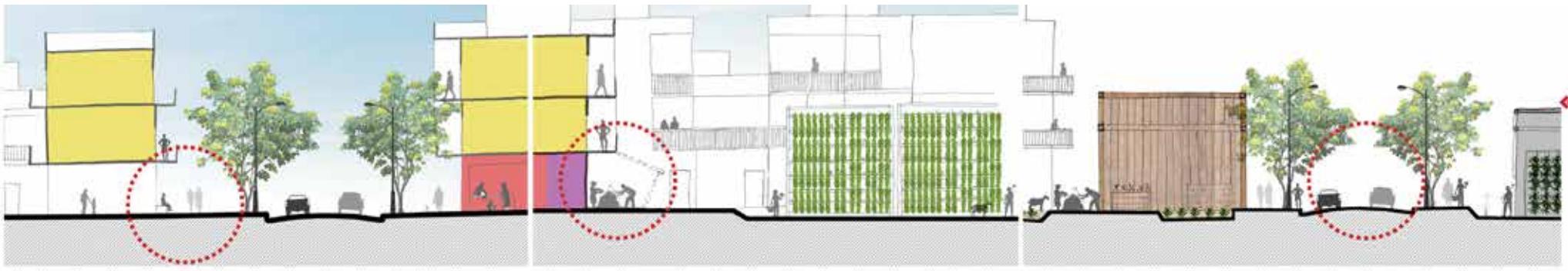
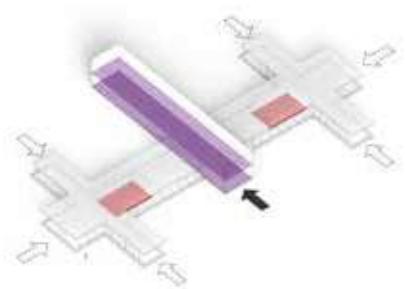


### Western Edge :



# Built typology for rurban landscape

2 major factors for the form development was : incrementality, Visual connection with natural land-scape.

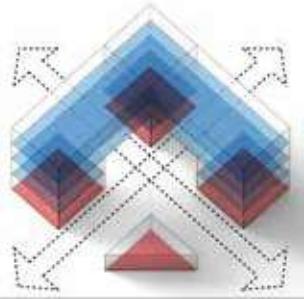


SECTION New Housing Typology

## Socio-economic activity center

Total ground coverage: 1600m<sup>2</sup>

Built up ( Purple ): 400\* 2

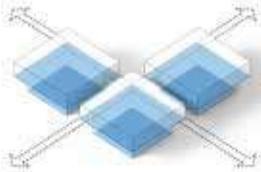


## Mixed use Building

Site area : 4000sqkm  
Ground coverage : 1056sq km



Farming area

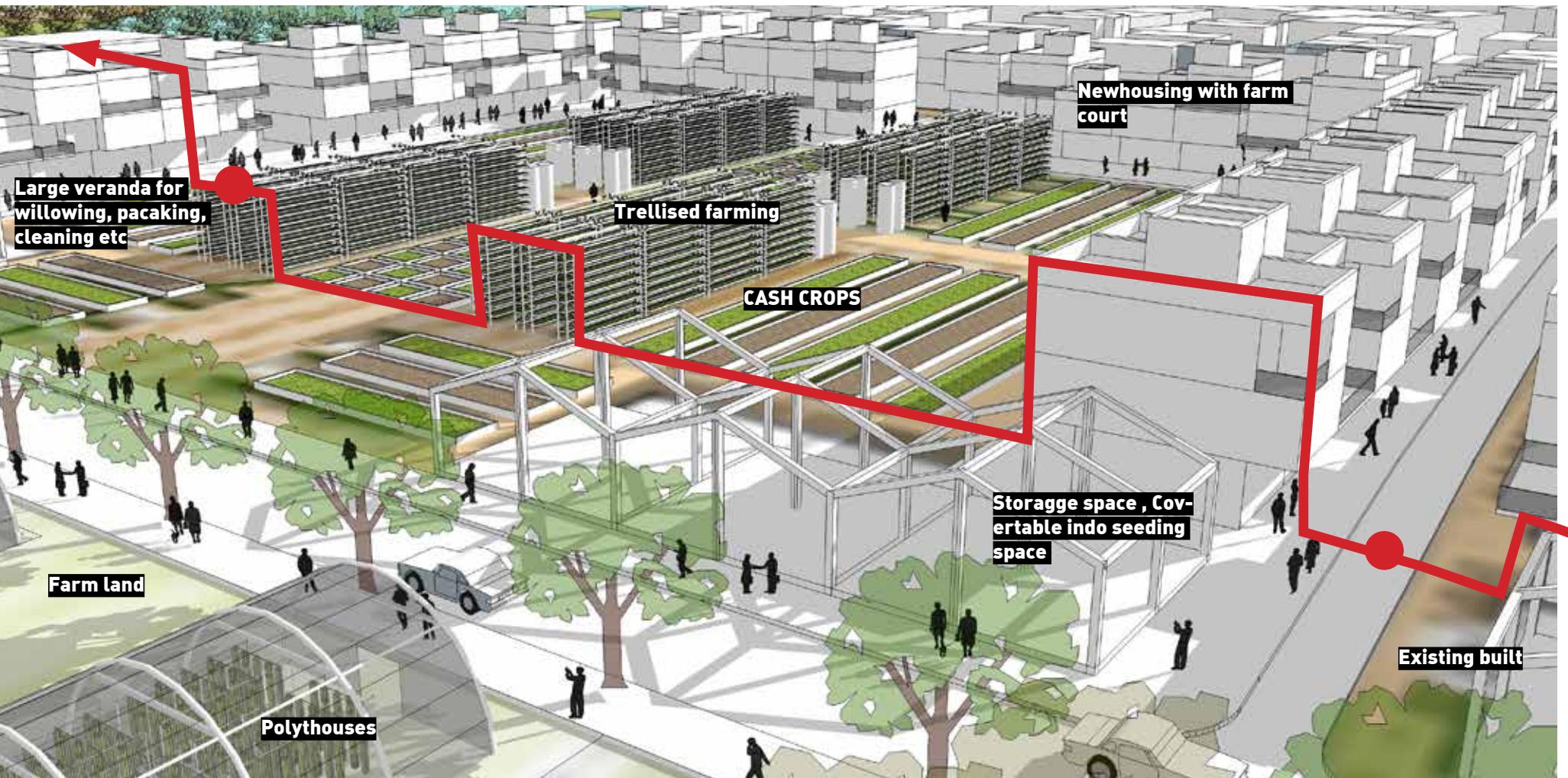


## New Housing Typology

Site area : 15,625 m<sup>2</sup>  
Commercial - 1800m<sup>2</sup> Housing 6000m<sup>2</sup>  
Seed germination : 900m<sup>2</sup>  
Ground Coverage: 3000m<sup>2</sup>

## Skill Development Center

Module ( ground ): 10m x 10 m  
(First) : 16m x 16 m



VIEW New Housing Typology

## **Thank-you**

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