



56th ISOCARP
Virtual World Planning Congress
Post-Oil City
PLANNING FOR URBAN GREEN DEALS

2020 ISOCARP Student Award Winner

URBAN OPEN SOURCE

Where the common-man presides

Shaurya Chauhan | New Delhi | India

"We do not create work. We are *discoverers*."

"Every great architect is- necessarily- a great *poet*."

"Architects, painters, sculptors are all *craftsmen* in the original sense of the word."

"I don't know **why** people hire architects and then try to tell them what to do."

Frank Gehry, 2007

Rural Charm Certainty Nature Conventional Less is more Community

Journey Steadiness Cycle Emigration

Katarpur Proximity Inclusivity Seasonal programmatic variations

Spaciousness Socialism

Peaceful Panchayat

Green

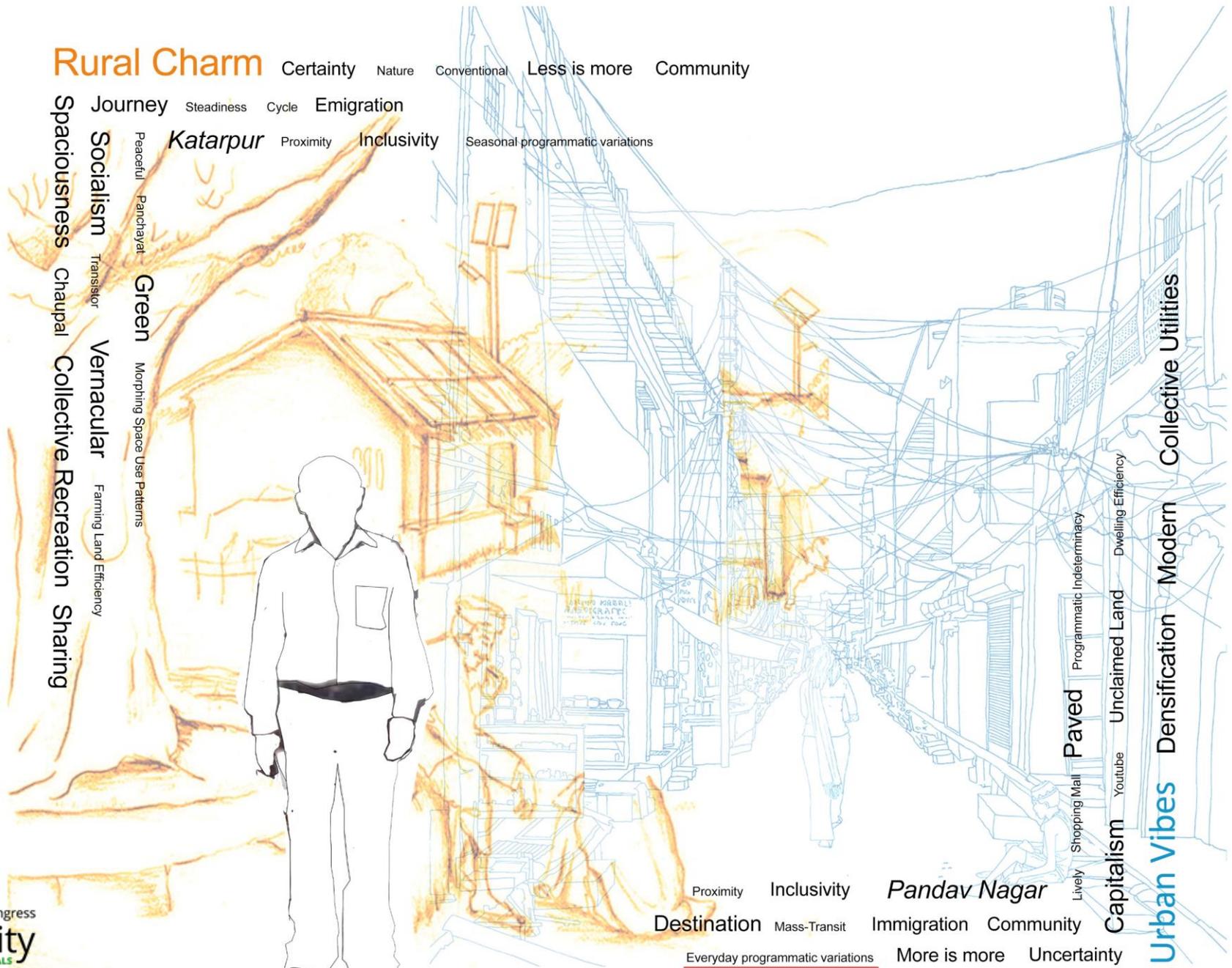
Morphing Space Use Patterns

Vernacular

Farming Land Efficiency

Chaupal

Collective Recreation Sharing



Proximity Inclusivity Pandav Nagar
Destination Mass-Transit Immigration Community

Everyday programmatic variations More is more Uncertainty

Programmatic Indeterminacy

Paved

Shopping Mall

Lively

Capitalism

Youtube

Unclaimed Land

Dwelling Efficiency

Collective Utilities

Densification Modern

Urban Vibes





Happiness ?



Happiness ?



Open Source

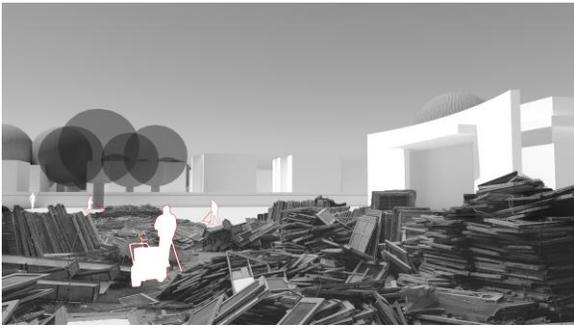
Design Process addressing user's **Current Requirements** but allowing for adaptation to changing requirements, through **Future Adaptability**.



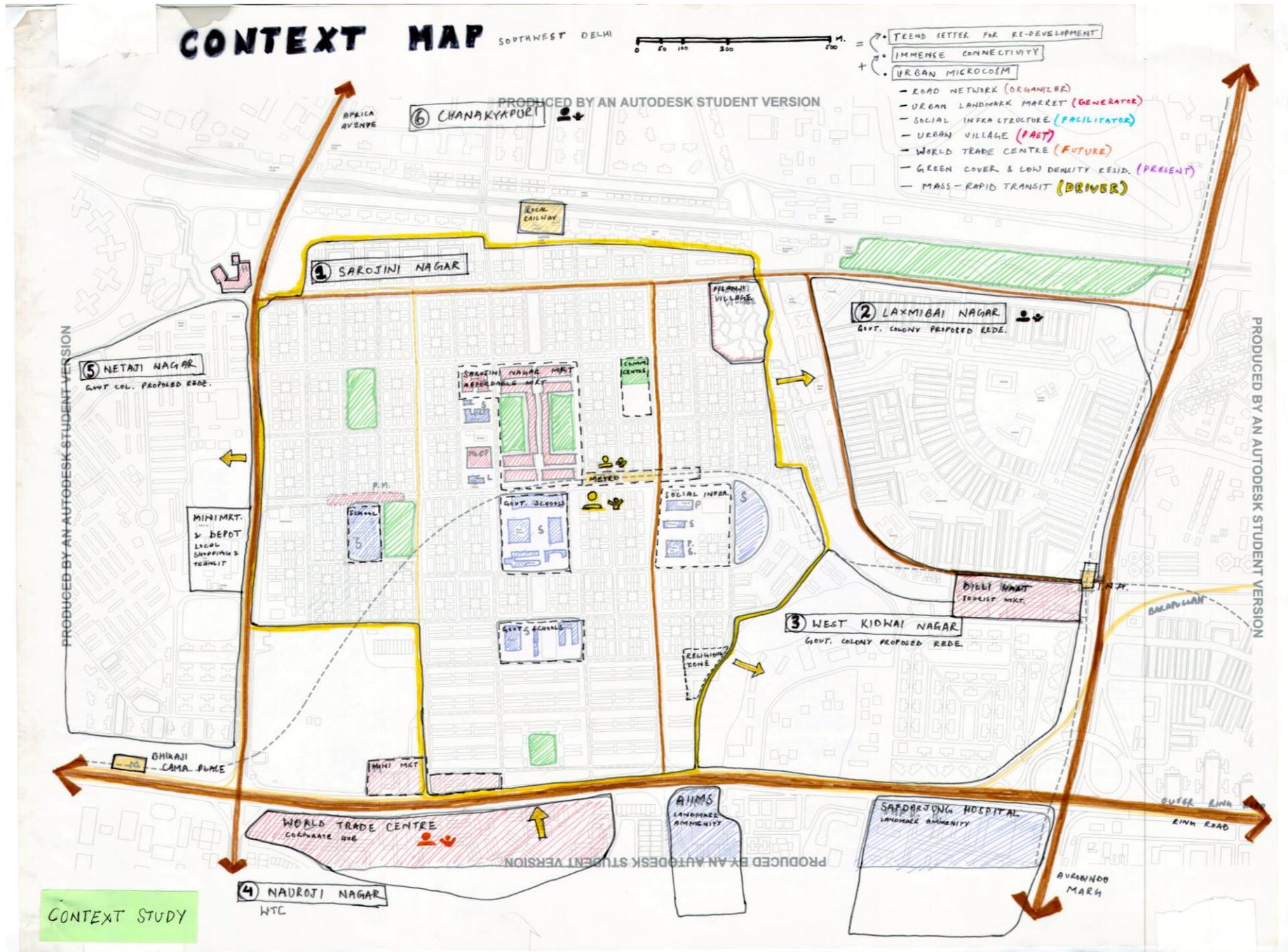
Q: Can Open Source address these problems of a rapidly growing city?

*"Yes. We need 'Choral Architects': ones who understand the city's requirements and just mediate through **architectural processes**. The user can build the rest for herself."*

*Matthew Claudel
Founder, DesignX
MIT Department of Urban Studies*



".....Sarojini Nagar, in the heart of Delhi, is best known for thriving lush green trees, an export-surplus market and government flats in various states of disrepair. In Delhi, a city drugged on new spaces for real estate and more inches of shining, heat-absorbing Concrete, this redevelopment is set to become an example for all redevelopment projects, good or bad...."



Concepts and principles of 'open-sourcing' in design.

A design framework that serves the current user requirements while allowing for future citizen-driven modifications.

300-acre development in Sarojini Nagar, located in the core of New Delhi, encompassing extreme physical, demographic and economic diversity.



The Capricious City

The Empowered Citizens

PROTOTYPING

Mobility - Multi Use

Art District

GATHEMERAL NODE

Art Commerce

Central Node

COLLABORATIVE

CONSUMPTION

Social Condensers

A Mediative Experiment

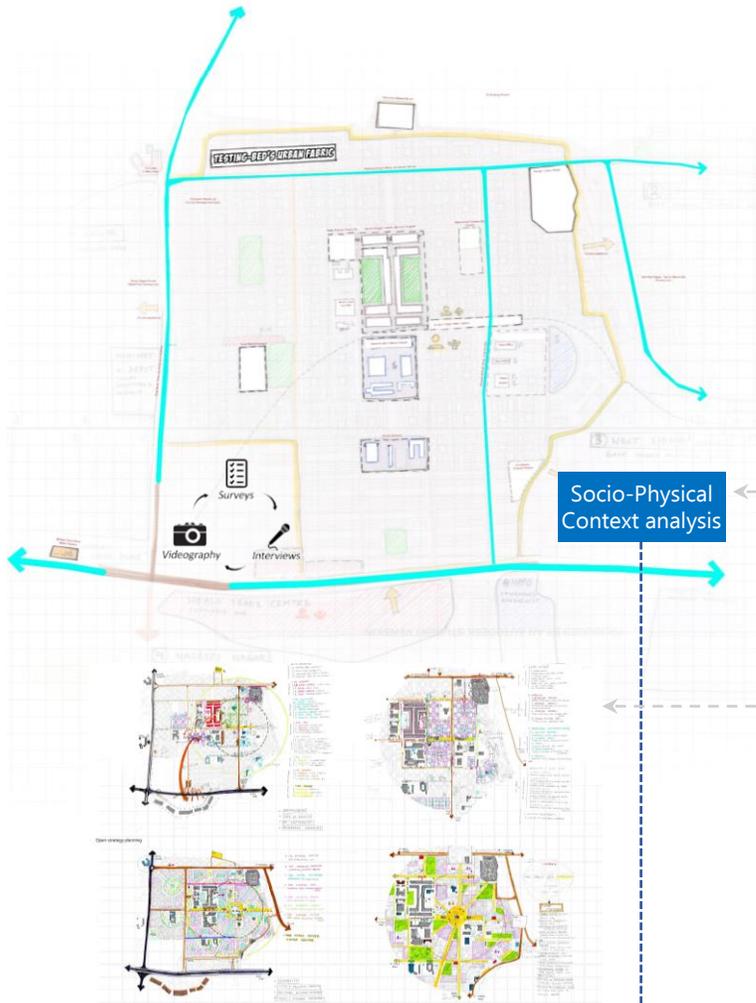
THE PEOPLE HAVE THE POWER!
ALL WE HAVE TO DO, IS AWAKEN IT.

Liquid Urban Spaces

Nodal Tree Pockets

Common Green

A 3-tiered model: user needs – design ideology – adaptive details.
 Vision – feedback – execution loop for **development at the three prevalent scales in design:** Urban design, Architecture and Interiors..

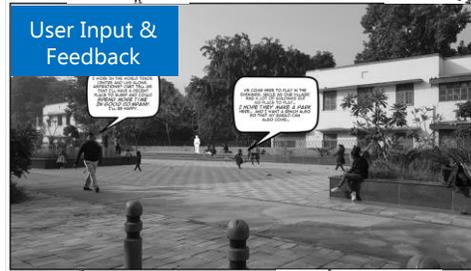


Condition & Strategy Maps

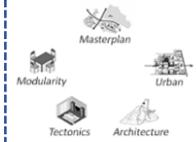
Execution & Appraisal



User Input & Feedback

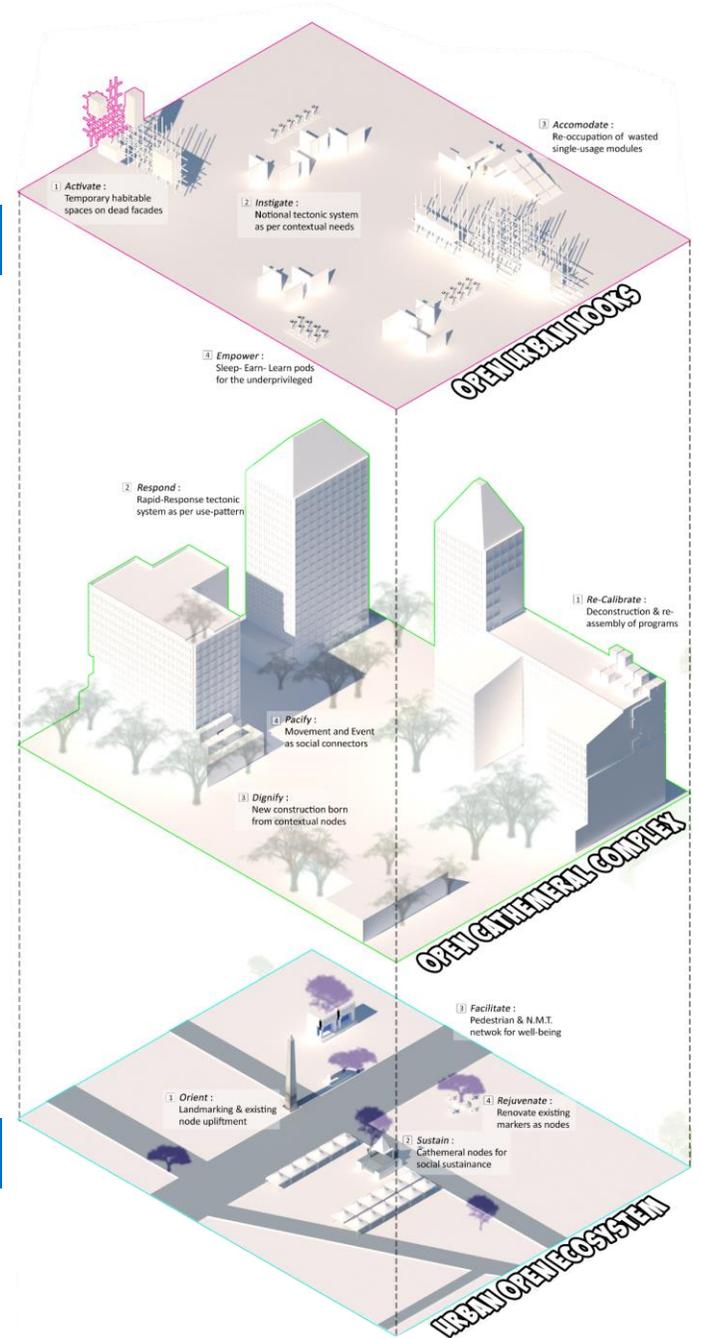


Scale-Defined Dvpt. Loop



Feasibility & Viability

Objectives & Methodology



Scale 1: The Urban *Hearing the Chants of the Capricious City*

OBJECTIVES	1: Create a Social Ecosystem 2: Achieve Equitable Massing
REQUIRED ANALYSIS	Nature of Urban elements and their relation with processes shaping the urban fabric.
TOOL FOR ANALYSIS	<i>Theory for New Urbanism in the 21-st century.</i> (Koolhaas, R., S,M,L,XL)

I **study in the delhi university** and come
Here For all my shopping, in the bus...

Every time I come here, I see these **school Children** crossing the road, unguided. The **elders** never Have a place to sit and catch their breath.
What good is all this so-called development, if the Needs of these diverse users Are Not catered to?!

My life has been defined by these Big trees!
I've set-up shop under the banyan for 15 years!
Sarojini nagar has its own identity- **the market,**
All this green... a lot of these things are still
Serving A lot of people! **I hope the new developers Retain These vital identity traits**
of our Sarojini nagar...



Zoning as per Norms & Byelaws



Placing network Of urban elements



Massing for functional requirements



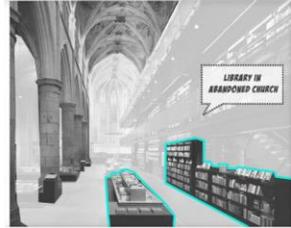
Re-oriented massing for ecology



Distribution of urban elements



OPEN SOCIAL ECOSYSTEM



LIBRARY IN ABANDONED CHURCH

CROSS-PROGRAMMING

In Old Delhi, buildings were constructed around "program," the specific uses to which a building would be put. Tectonics, however, cannot always keep up with the pace of programs. This idea re-calibrates existing architecture with multiple programs that match the nature of its tectonics.

- 1 School-Vocational- Media Centre



SHRIMPY RANGSI! ON THE ROAD!

LIQUID URBANISM

The 'Dilli-wala' is no longer willing to let the authorities make the decisions. Tactical Urbanism is all about action. DIY or Urban Acupuncture, interventions lead a people-centric approach to neighborhood using short-term interventions to bring long-term change.

- 2 Outdoor Cinema
- 3 Chaupal
- 4 Weekly Bazaar

CATHEMERAL NODE

In the globalized context, Delhi never sleeps. Acting beyond the territory of nations and time zones, the requirements of citizens can no longer be bound to the time-slots allocated by sunshine. These nodes create an activation network that transcends this for a 24hr active urban fabric.

- 5 Monument
- 6 Paan Shop/ 24 Hr. Cafe
- 7 Religious Centre



CHAI & SHROE AT 9 A.M.!

COMMERCIAL GENERATOR

Shopping is arguably the last remaining form of public activity. Shopping has infiltrated & colonized many aspects of Delhi's diversified urbanity. Thus, commerce is placed as a generator of maximum activation for the urban fabric.



SCHE-BAZAAR OVER AMAZON!



INVESTMENT-FREE AMENITIES!

SOCIAL CONDENSOR

Central to the idea of the social condenser is the premise that architecture has the ability to influence social behavior. These programs influence the design of public spaces, with a goal of breaking down perceived social hierarchies and create cross-cultural interaction in the fabric.

- 8 Co-Working Area
- 9 Gardening Terrace
- 10 Yoga Deck

MICRO LIVING

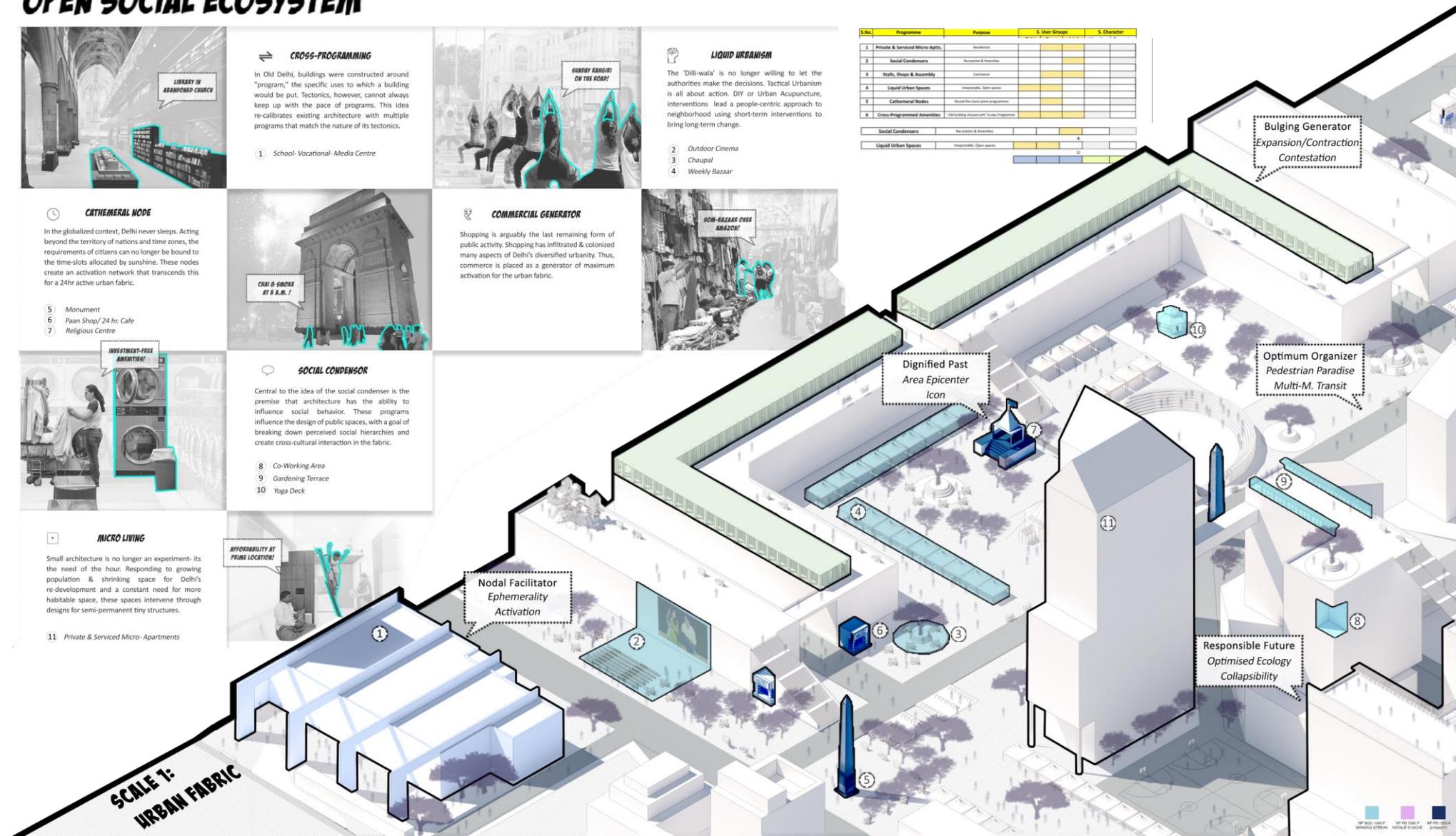
Small architecture is no longer an experiment- its the need of the hour. Responding to growing population & shrinking space for Delhi's re-development and a constant need for more habitable space, these spaces intervene through designs for semi-permanent tiny structures.



AFFORDABILITY AT PRIME LOCATIONS!

- 11 Private & Serviced Micro- Apartments

S.No.	Programme	Purpose	S. User Groups	S. Character
1	Private & Serviced Micro-Apts.	Habitat		
2	Social Condensers	Recreation & Knowledge		
3	Stalls, Shops & Assembly	Commerce		
4	Liquid Urban Spaces	Intermittent Open spaces		
5	Cathemeral Nodes	Around the clock active programmes		
6	Cross-Programmed Amenities	Old building infused with 'New' Programmes		
	Social Condensers	Recreation & Knowledge		
	Liquid Urban Spaces	Intermittent Open spaces		



Scale 2: The Architectonics *Decoding the programmatic labyrinths*

OBJECTIVES	1 Context-interpreted programming	2: Create Responsive Tectonics
REQUIRED ANALYSIS	People's behavioral trends that govern spatiality and cause program mutations.	
TOOL FOR ANALYSIS	<i>Theory for Movement, Events and Objects</i>	(Tschumi B., Architecture & Disjunction)

	<p>I'm capturing the city for my college project.. HOWEVER, I WAS SURPRISED TO SEE THE COMMUNITY CENTRE LYING DIRTY AND UNUSED... IT NEEDS A NEWNESS PERHAPS... SOMETHING THAT CATERES TO HOW my generation LIKES TO LIVE!</p>	<p>Kya batau sahib?! I'M SCARED. last time, my puchka stall WAS not GIVEN a place in the Plan given by the authority... the pwd kicked us out... These small vendors, my evening stall, don't know how we'll face this new development..</p>	
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Scale 3: The Interiors *Empowering the individual*

OBJECTIVES	1 Maximize Spatial Efficiency	2: Optimize Micro-details
REQUIRED ANALYSIS	People's perception of units of space and critical units dictating time-based changes.	
TOOL FOR ANALYSIS	<i>Commentary on furniture: Performance over Shape</i>	(Koolhaas R., Tools of Life)

This footpath is my home. I am on the path to salvation. I sleep here at night.
I tie a cloth to these branches and sleep under it.



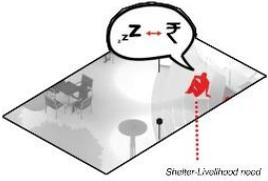
Hello sir! I am a government employee but in the evenings, I teach The children from pilanji village. This chaupal serves us well, after this shop closes but
Only if I could FIND SURFACES FOR THE KIDS TO PUT THEIR COPIES ON, WHILE WRITING...



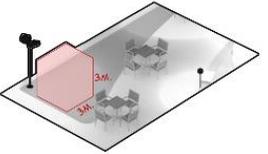
Identification of Distressed citizen



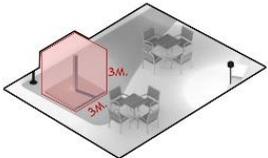
Formulation of Specific objective



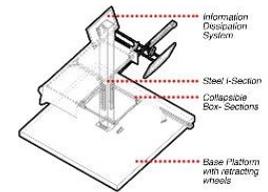
Spatial analysis for Volume derivation



Design of simplest Possible tectonics

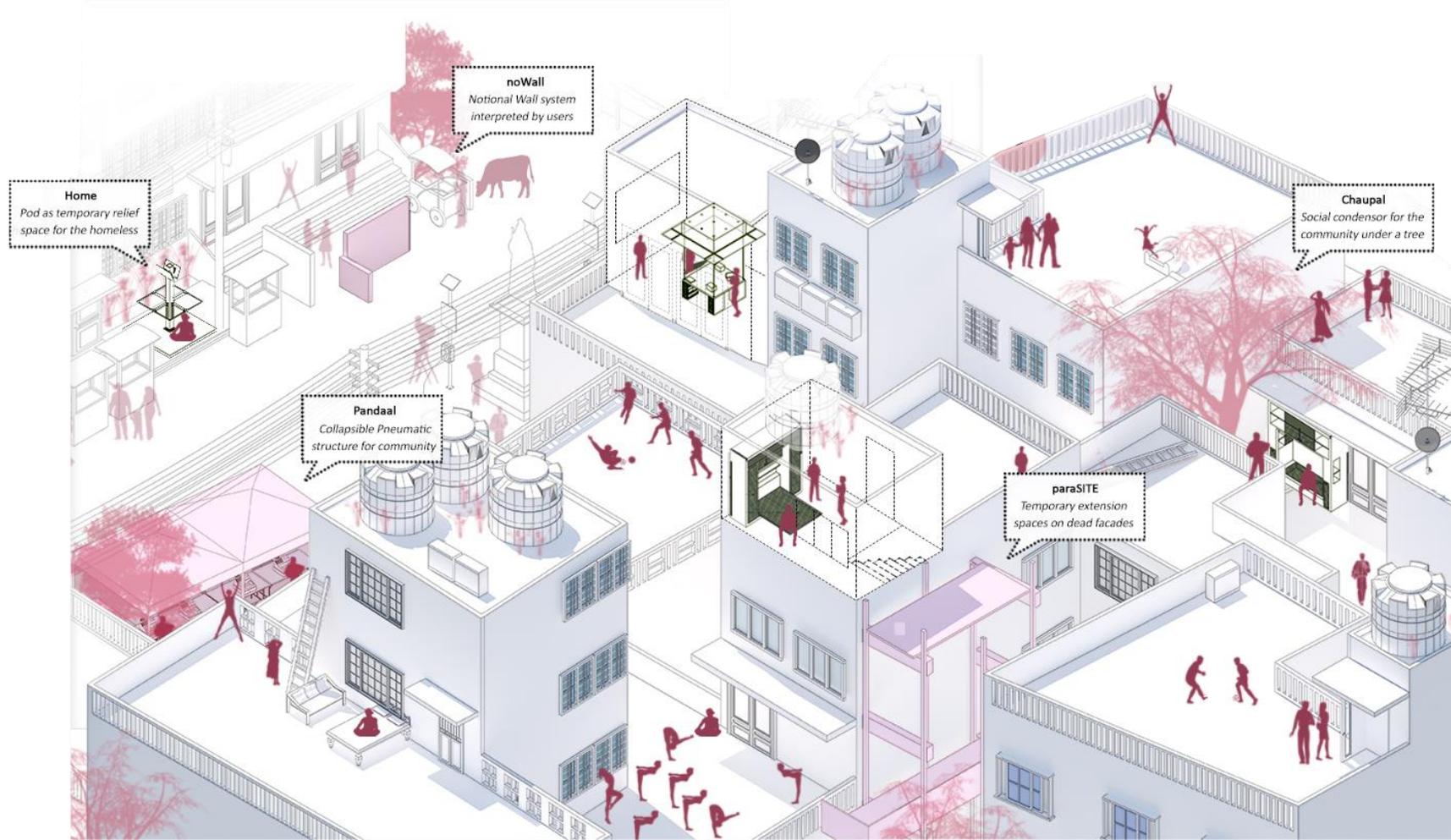


Micro detail design For optimization



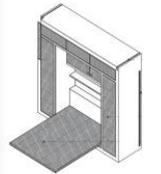
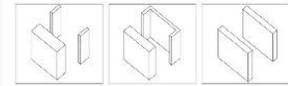
THE OPEN NOOKS

Strategically hidden behind tall glass towers and giant trees lies **Pilanji Village**. Ten steps into the crooked streets, it does not feel like a city anymore. It becomes a display of overwhelming density. A broken road meanders through the canyon of seemingly twenty houses, pasted on top of each other. On the map of Delhi, it does not exist and in the minds of the people where it does, it is a place to be forgotten about. But tonight, in the middle of the night, **the voice of a child can be heard echoing through the streets- *the voice of empowerment.***

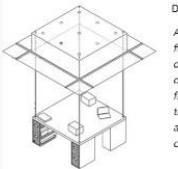


1. Methodology

At the micro level, the spaces in the tectonics are further optimized by incorporation of **modular operability**. Simulation is carried out & for the specific volumes facing failure, **modularity** is developed, providing enhanced adaptability and even **dismantling possibilities**:



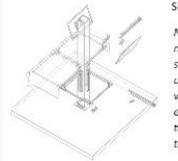
The collapsing bedroom
In the 1-BHK rented by a bachelor, this module provides the flexibility for turning the room into a party place by evening and bedroom by night.



Drop-down office
As the start-up tries to find its legs in the initial days, the single office-volumes morphs from meeting to working to networking, at drop of a wooden plank from the ceiling unit.



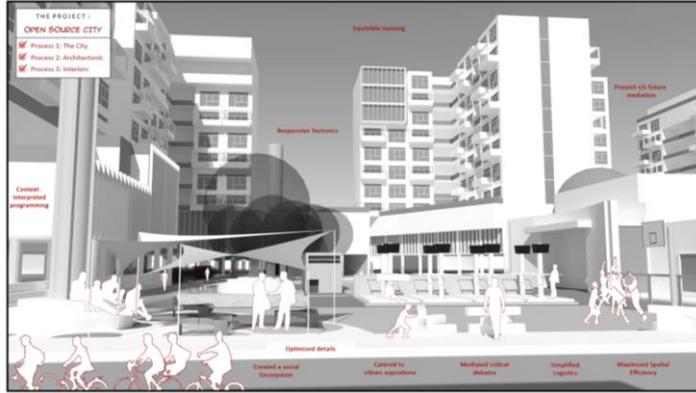
The living storage room
Grandma spends her day on the sole-bed lying in the courtyard but what does she do when she has guests? She opens the cabinets, takes out the chairs and serves tea on her favorite cabinet.



Sleep-Earn-Learn pod
Not finding any work, the migrant loiters on the streets of the urban-village, looking for work. He locates the pod, enters his verification and ties a cloth to sleep under the module that unfolds.

2020

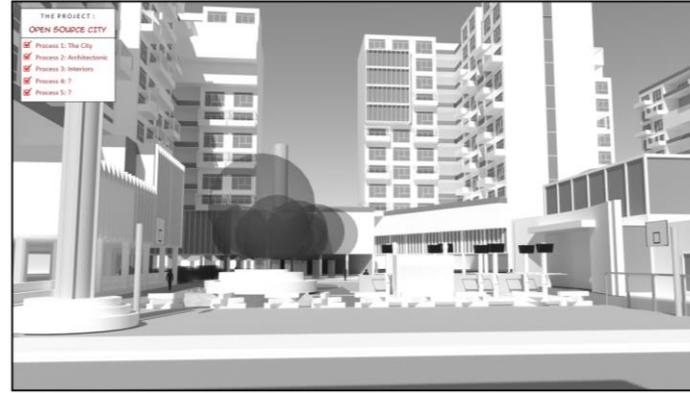
“After a 5-part open source design process, Sarojini Nagar is now a part of the city Where every citizen has the power to bring about change....”



- Process 1: The City
- Process 2: Architectonic
- Process 3: Interiors

2035

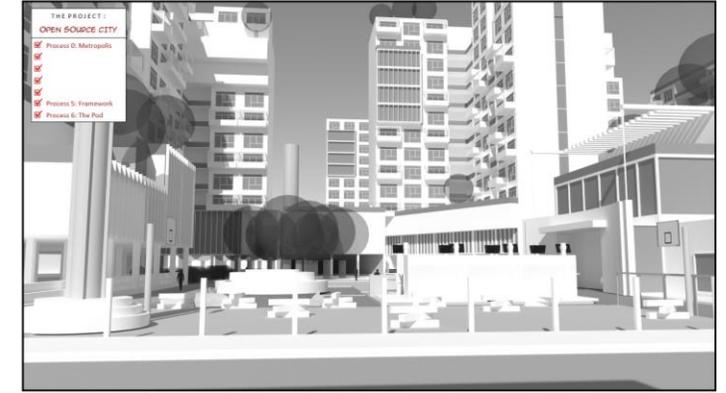
?



- Process 1: The City
- Process 2: Architectonic
- Process 3: Interiors
- Process 4: ?
- Process 5: ?

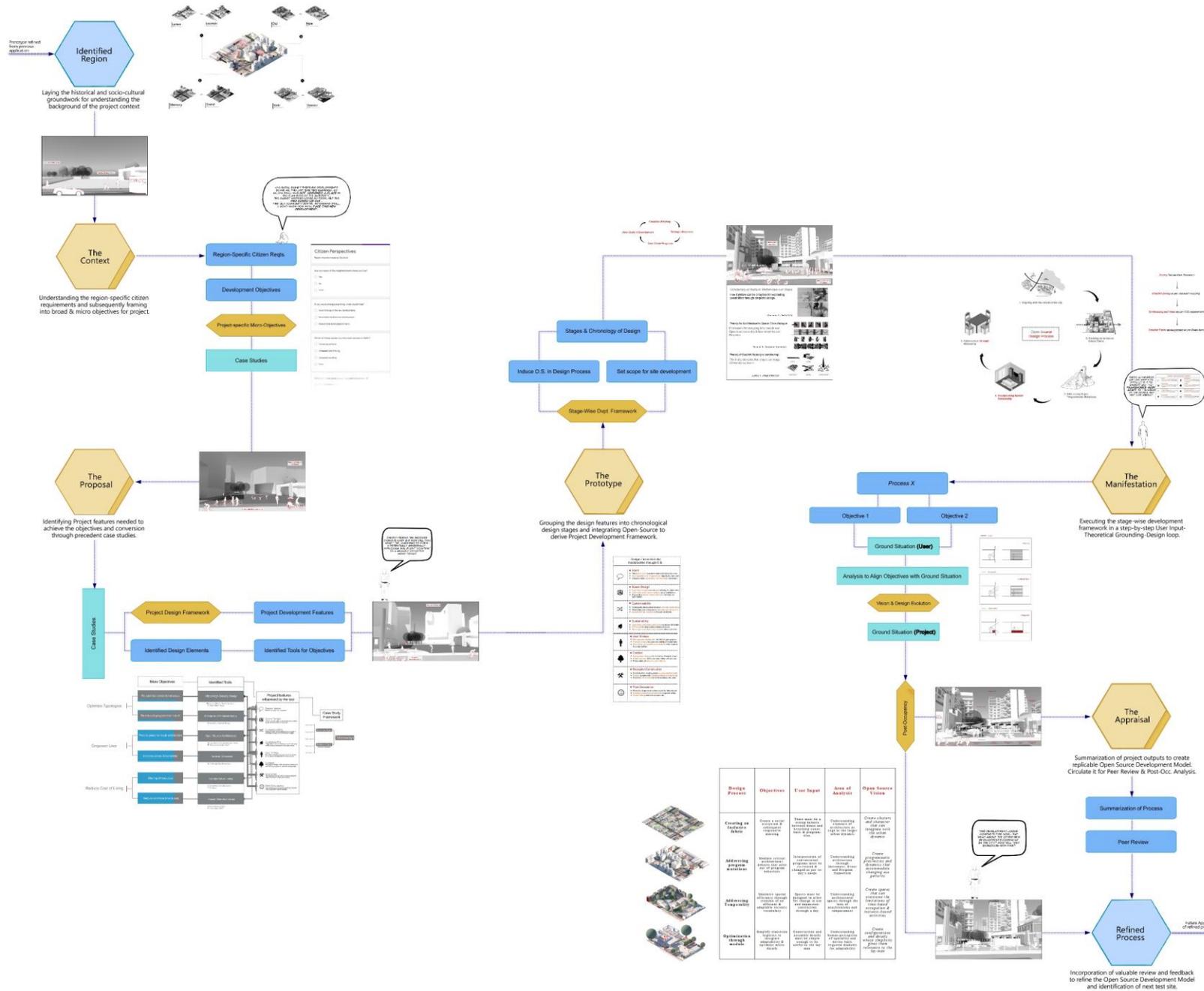
2050

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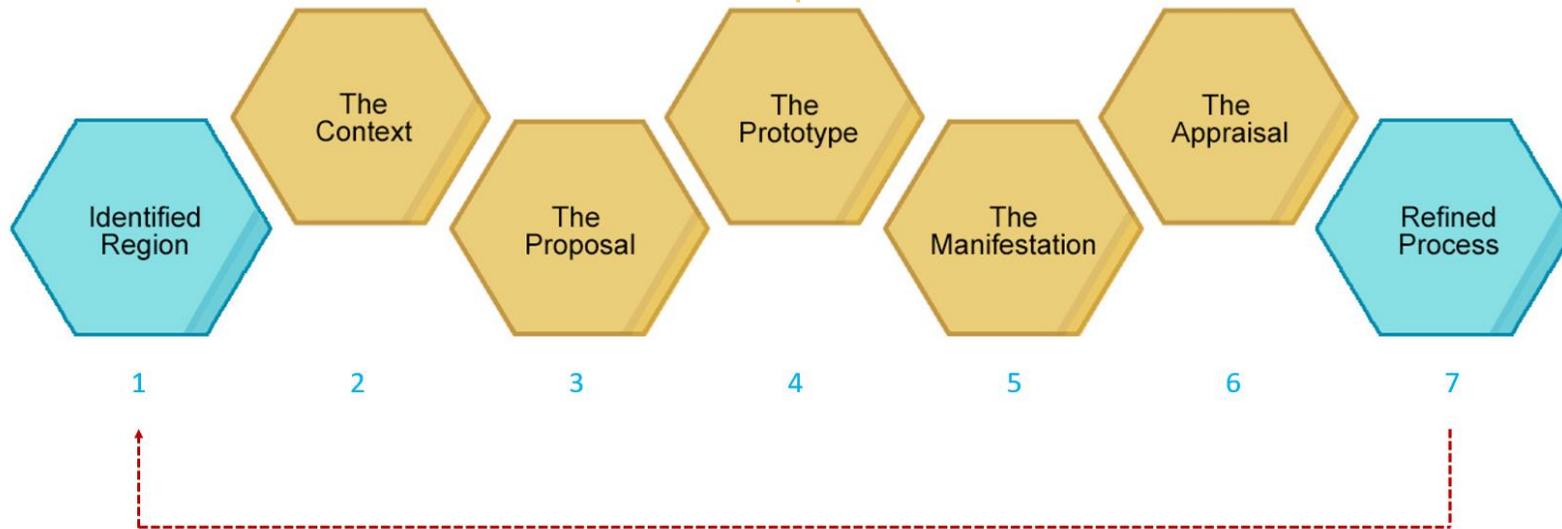
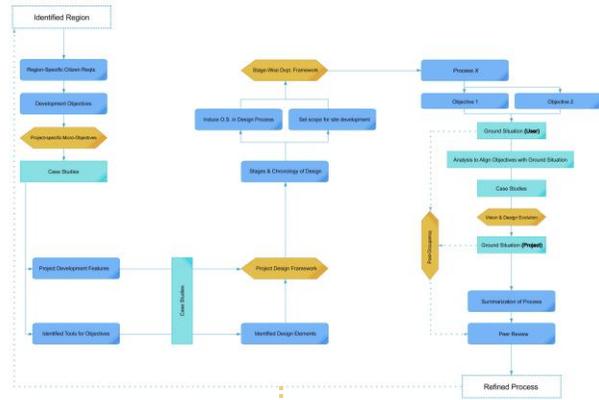
- Process 0: Metropolis
-
-
-
-
- Process 5: Framework
- Process 6: Pods

Refined Prototype
From previous application



The primary aim of this experiment is to create a **prototypical design model** that can be readily adopted in development projects across any urban fabric. Therefore, this project attempts to set a basic framework for achieving the same through a 7-part process.

Through a **perpetual loop of User Input-Theoretical Grounding-Design Evolution**, a dynamic prototypical development model is synthesized which keeps user-needs and customizability at the forefront.



Beyond: Peer Review; On-ground testing; Appraisal & Stage 2 testing

why?

In 2020,
6 'commoners' have conceived
the **10 Objectives** to develop a
290 acre chunk of the city in a
scheme that will affect **lakhs**.



why?

In 2010, The fallout of an 8.8 magnitude earthquake in Chile was solved by listening to people's demands for expandable 40 sq.m. **These expanded 120 sq.m. houses give shelter to thousands of homeless today.**



why?

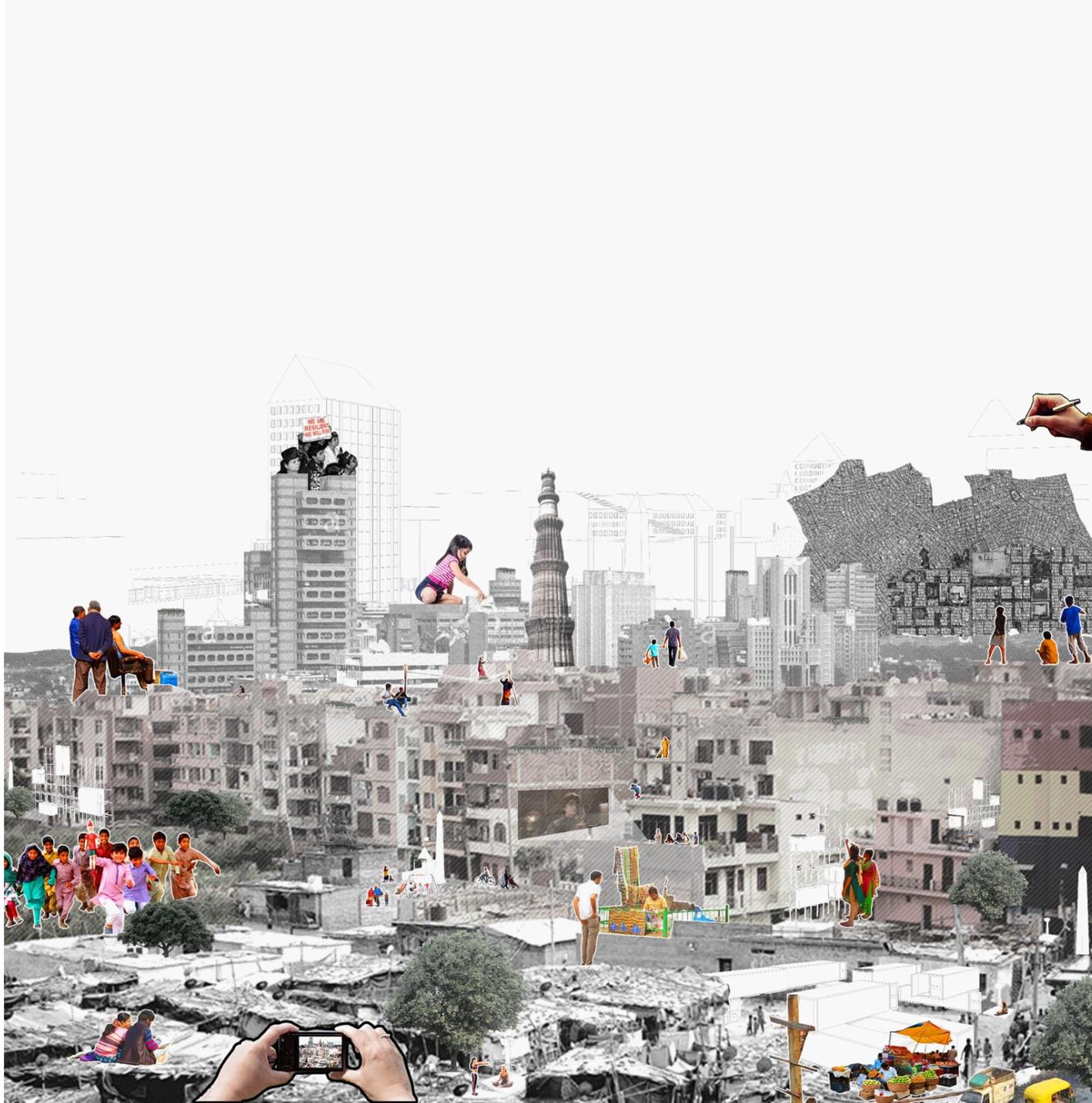
In 1920, Le Corbusier tested his 5 points in a community housing for 51 families in Pessac, France. The 'machine for living was dismantled' by the people living in it. It proved to be one of the early nails in Modernism's quest for control.



why?

“The people have the power. All we have to do, is awaken it!”

John Lennon



Towards people centric cities...

Urban **Open** Source