

BECOMING NAIROBI

CODIFYING PUBLIC SPACE
FOR AN ARRIVALS' CITY

ARRIVING TO NAIROBI | PERSONAL MOTIVATION



1. Highway Construction



2. Bus Preacher



3. Makeshift Thrift Shop



10. The Junction Mall



11. Out of Africa



12. Matatu Conductors



4. Police Collecting Bribes



5. Post-Election Violence



6. M-Pesa Shop



13. Roadside Nursery



14. Golf in Kibera



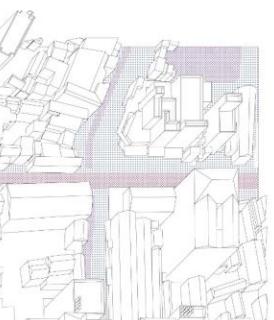
15. Brew Bistro & Lounge



7. Chewed Sugarcane



8. Kibera Pub



9. US Embassy Bombing



16. Route Information



17. Bourgainvillea



18. Congestion

ARRIVING TO NAIROBI | PERSONAL MOTIVATION



Africa | Kenya

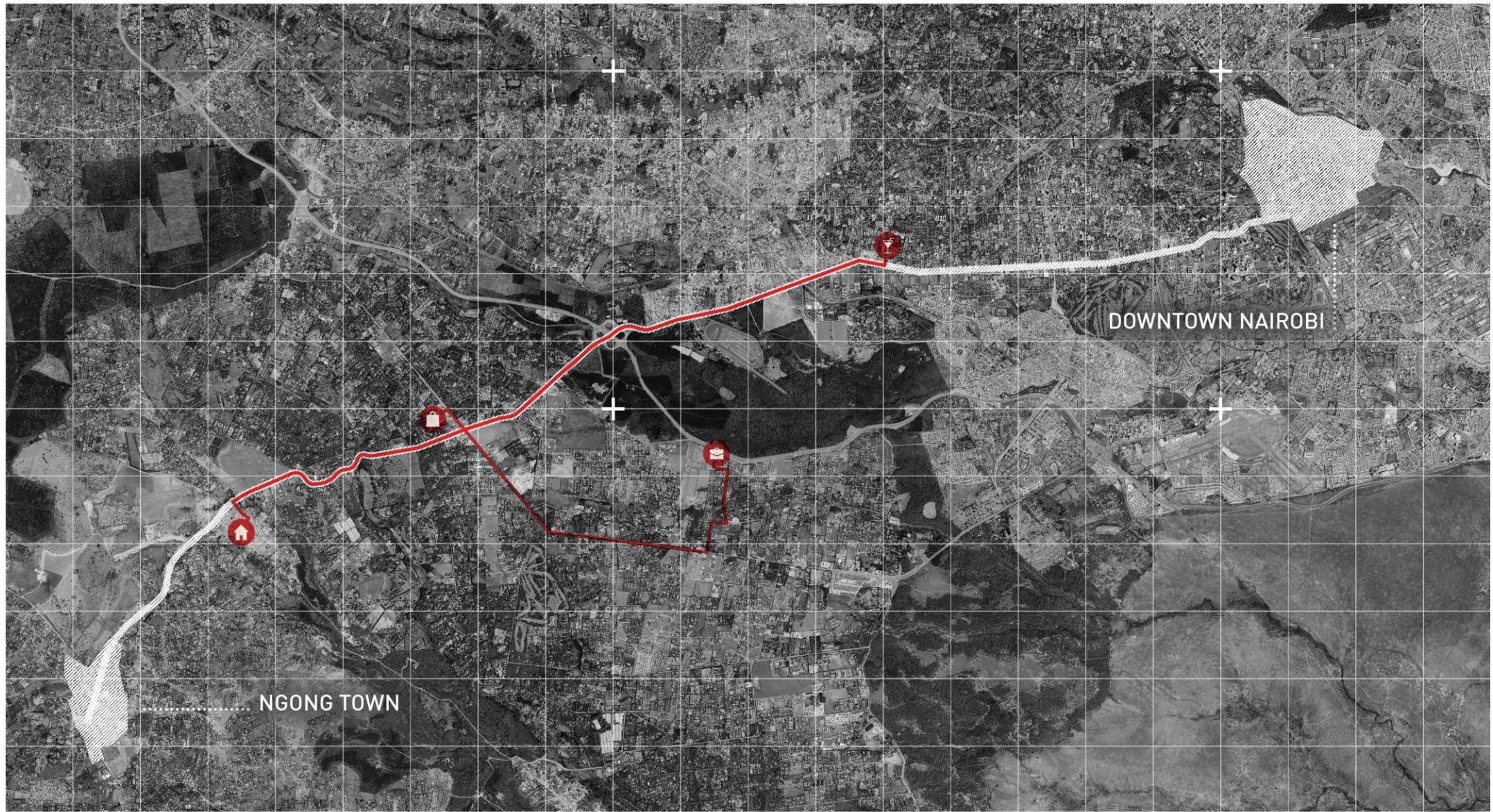


Kenya | Nairobi



Nairobi | Ngong Road

ARRIVING TO NAIROBI | PERSONAL MOTIVATION



my daily routine as an arrival to Nairobi

1 0 1 2 3 km

base image retrieved from Google Earth Pro

ARRIVING TO NAIROBI | MIGRANT TYPOLOGIES



THE RURAL-URBAN MIGRANT



THE INTERNALLY DISPLACED PERSON



THE UNIVERSITY STUDENT



THE REFUGEE

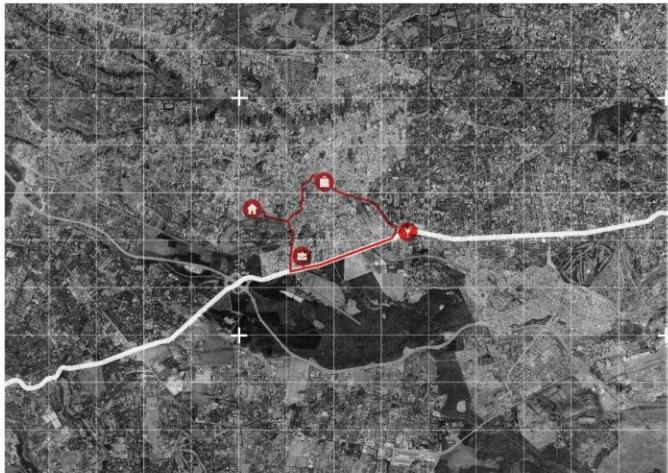


THE EXPAT



THE TOURIST

ARRIVING TO NAIROBI | MIGRANT ROUTINES



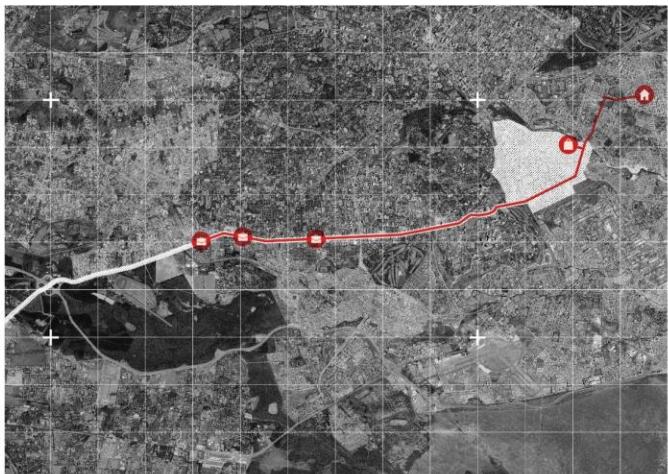
THE RURAL-URBAN MIGRANT



THE INTERNALLY DISPLACED PERSON



THE UNIVERSITY STUDENT



THE REFUGEE

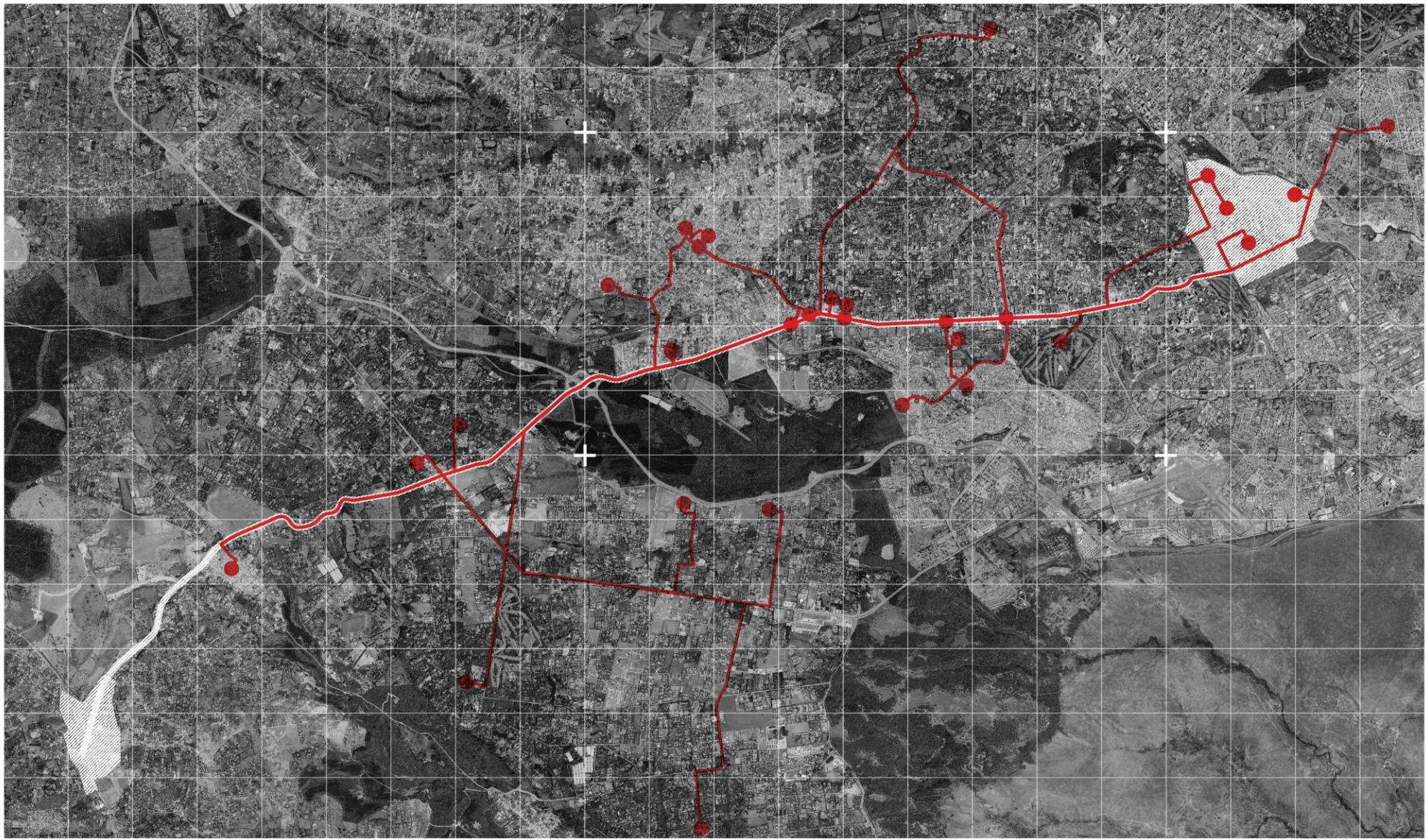


THE EXPAT



THE TOURIST

ARRIVING TO NAIROBI | MIGRANT ROUTINES



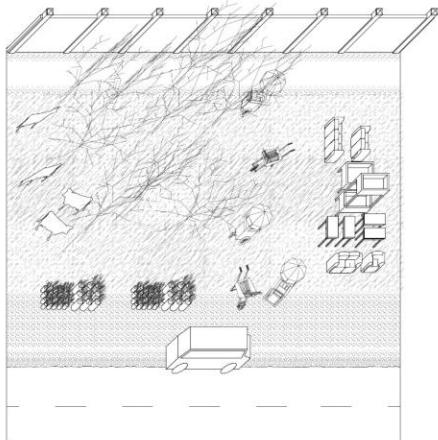
usage of western Nairobi by all types of arrivals

⊕ 1 0 1 2 3 km

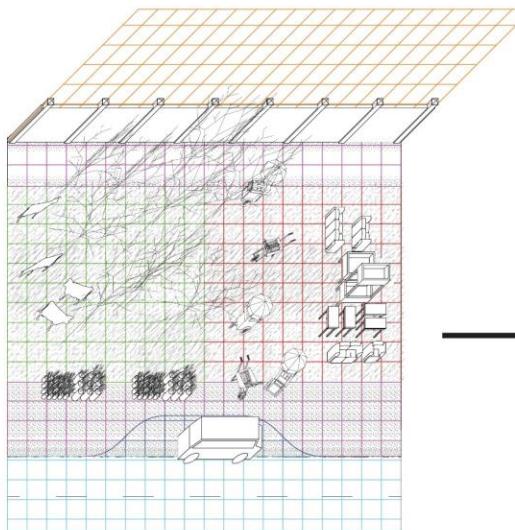
base image retrieved from Google Earth Pro

BECOMING NAIROBI | DISORIENTATION AS THE COMMON DENOMINATOR OF ARRIVALS

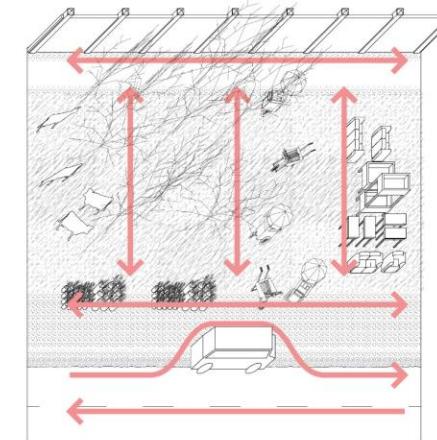
II | CHAOS



III | PATTERNS



III | INTUITION



IV | BECOMING



'Urban Africans [...] appear increasingly uncertain how to spatialise an assessment of their life chances - that is, questions such as where they will secure livelihood, where they can feel protected and looked after, and where they will acquire the critical skills and capacities to do so.'

'The urban environment is increasingly one where it is difficult to ascertain just what social practices, alliances and knowledge can be mobilised sufficiently enough to produce probable outcomes conceived in advance.'

AbdouMaliq Simone in *For the City Yet to Come*

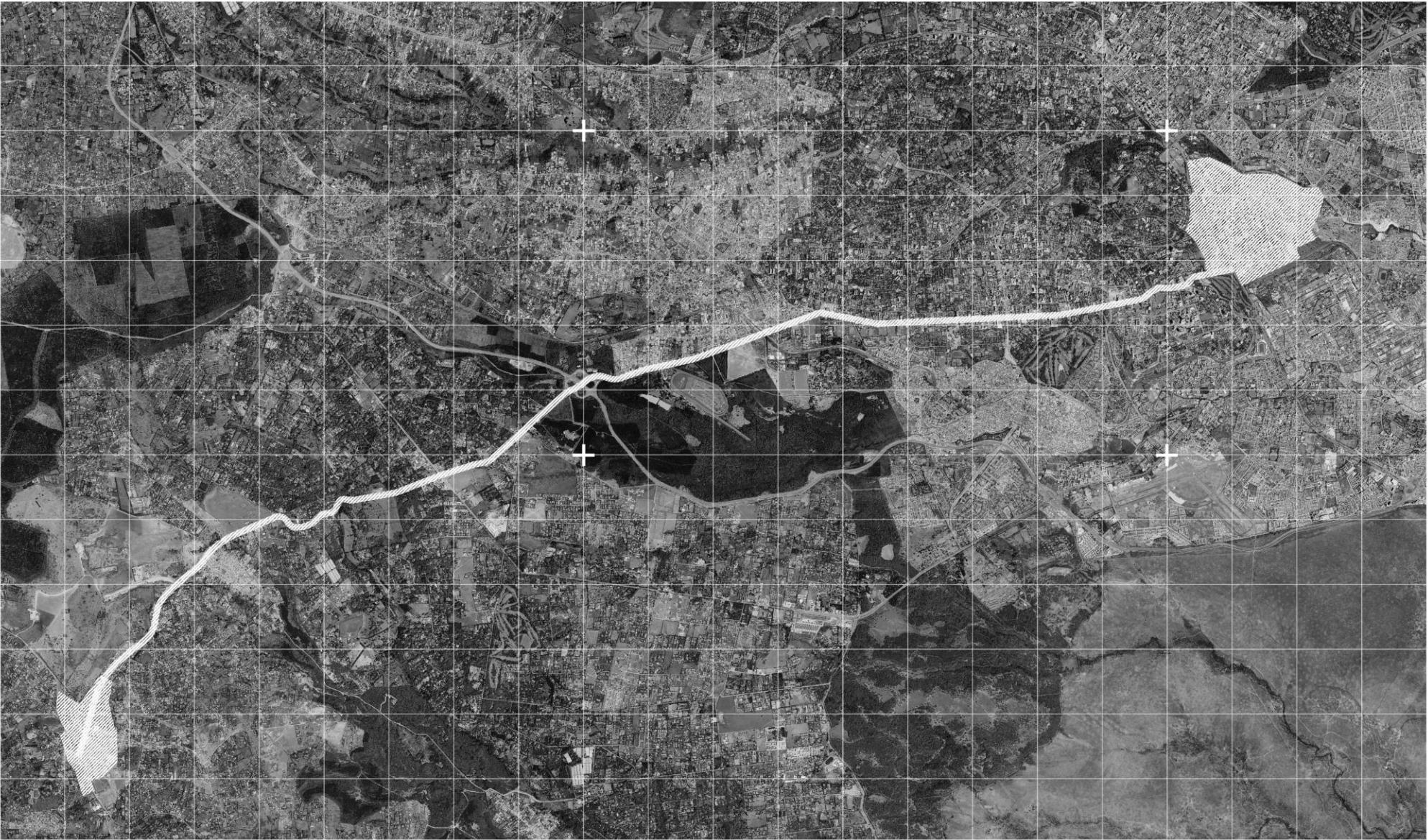
PROBLEM STATEMENT

The **lack of legibility and codification** of public space in Nairobi sidelines minorities as well as arrivals and **inhibits the long-term integration** of dwellers in the Kenyan capital, disenfranchising them with their own city.

RESEARCH QUESTION

How can public space in Nairobi mediate between the short- and long-term integration of arrivals in Nairobi?

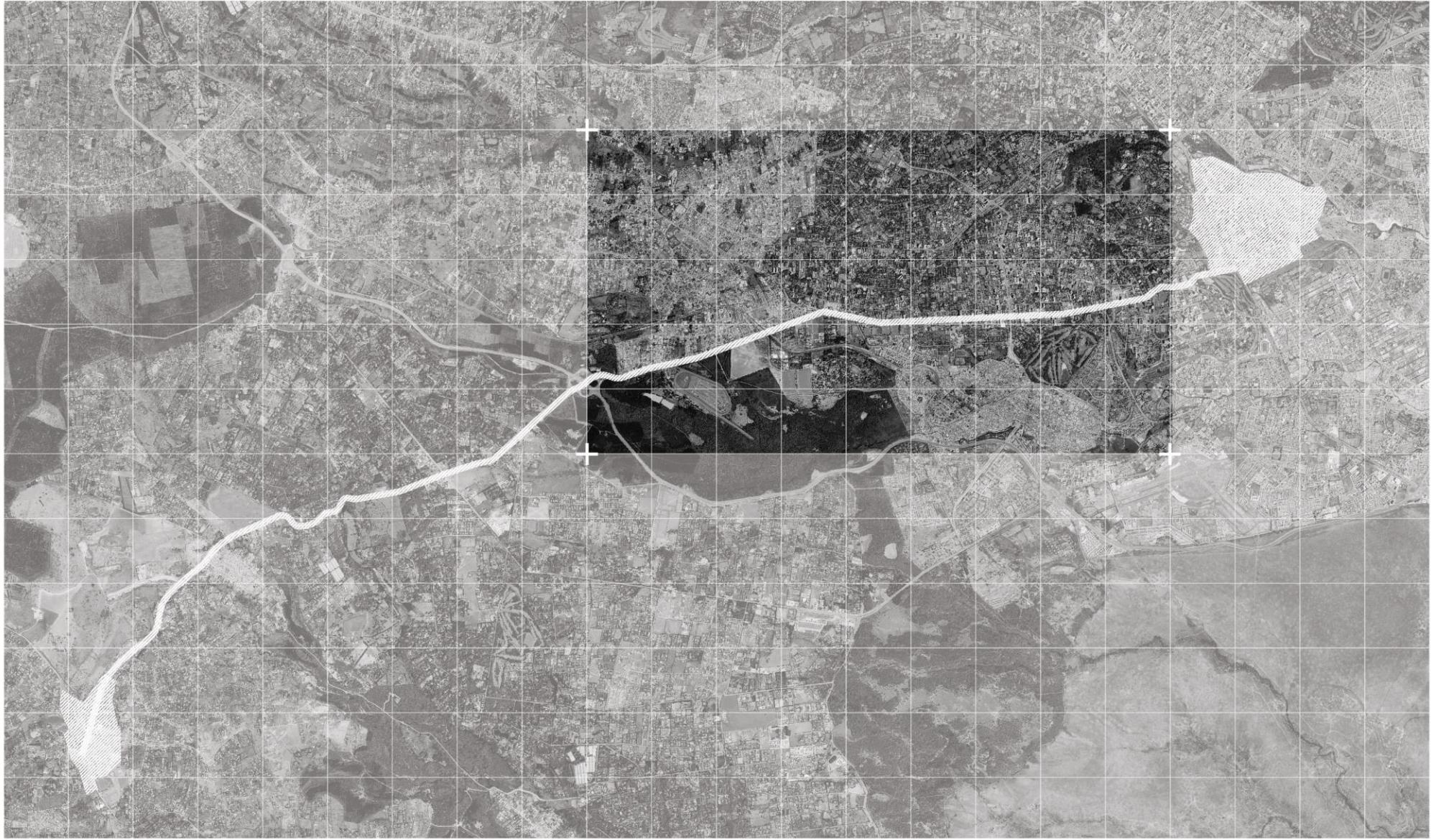
BECOMING NAIROBI | PROJECT SITE



1 0 1 2 3 km

base image retrieved from Google Earth Pro

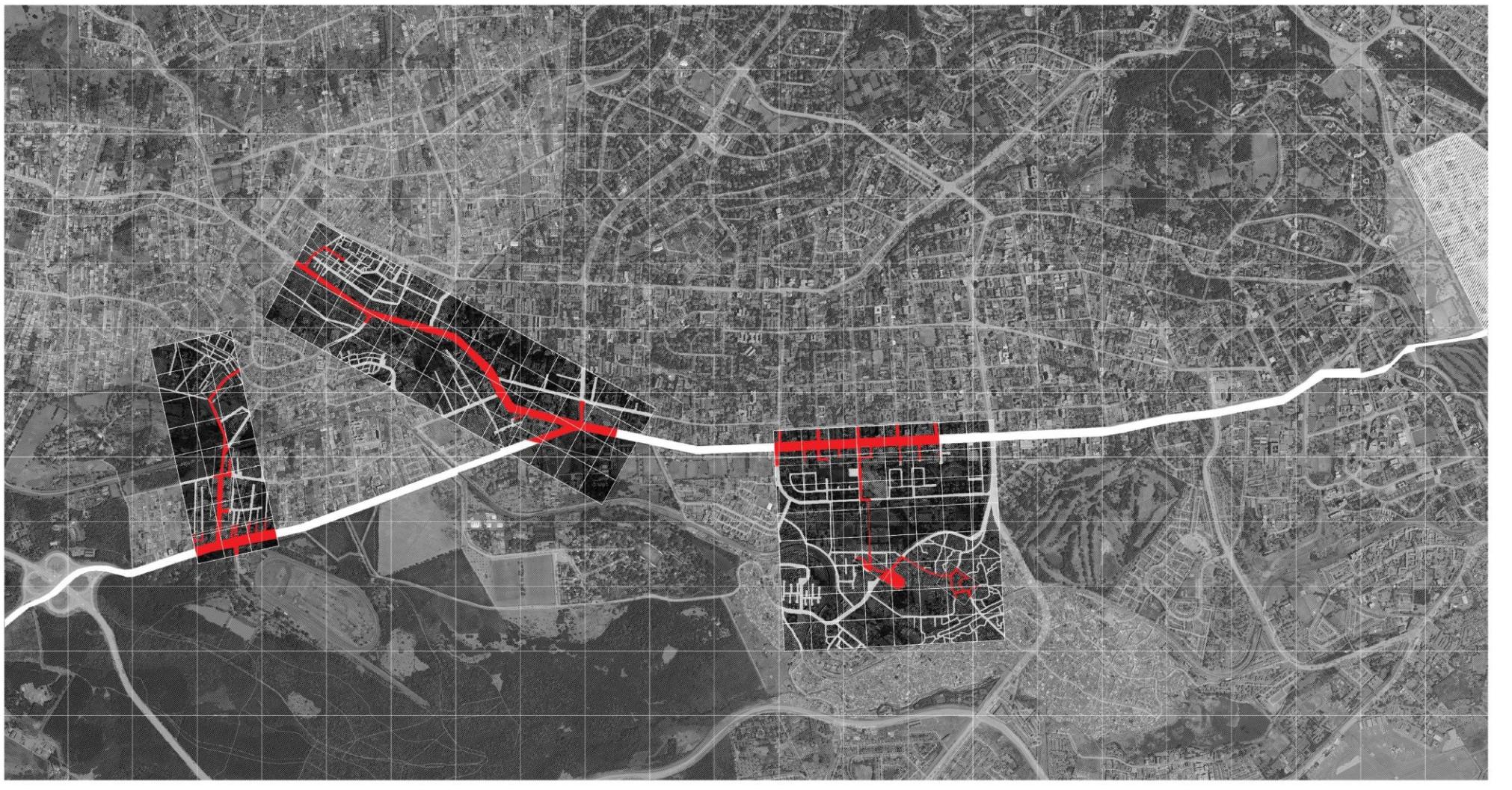
BECOMING NAIROBI | PROJECT SITE



1 0 1 2 3 km

base image retrieved from Google Earth Pro

BECOMING NAIROBI | PROJECT SITE



Project Sites | Riruta | Junction | Adams

500 0 500 1000 1500 m

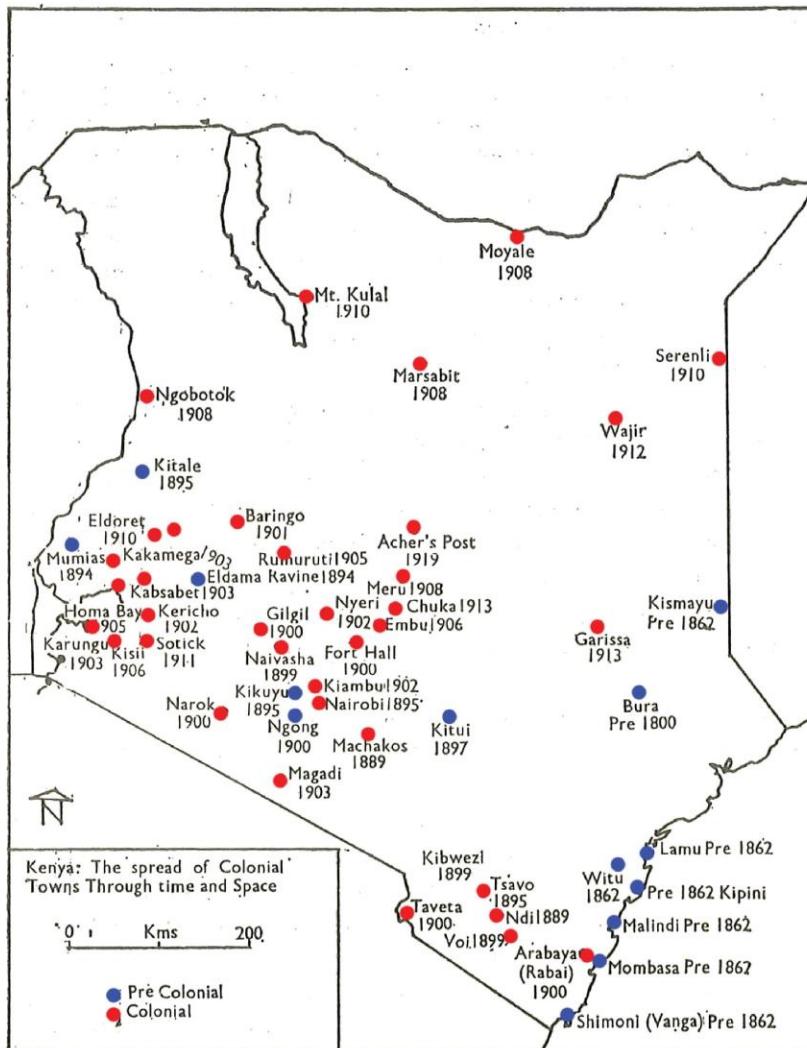
RESEARCH
VISION
CONCEPT
CASES
CHARACTER
BECOMING

NGONG ROAD IS NOT A ROAD
CODIFYING NAIROBIs JUA KALI
HARD AND SOFT SPACE
DESIGNING NGONG ROAD
FROM PLAN TO SPACE
ARRIVING TO A NEW NAIROBI

RESEARCH
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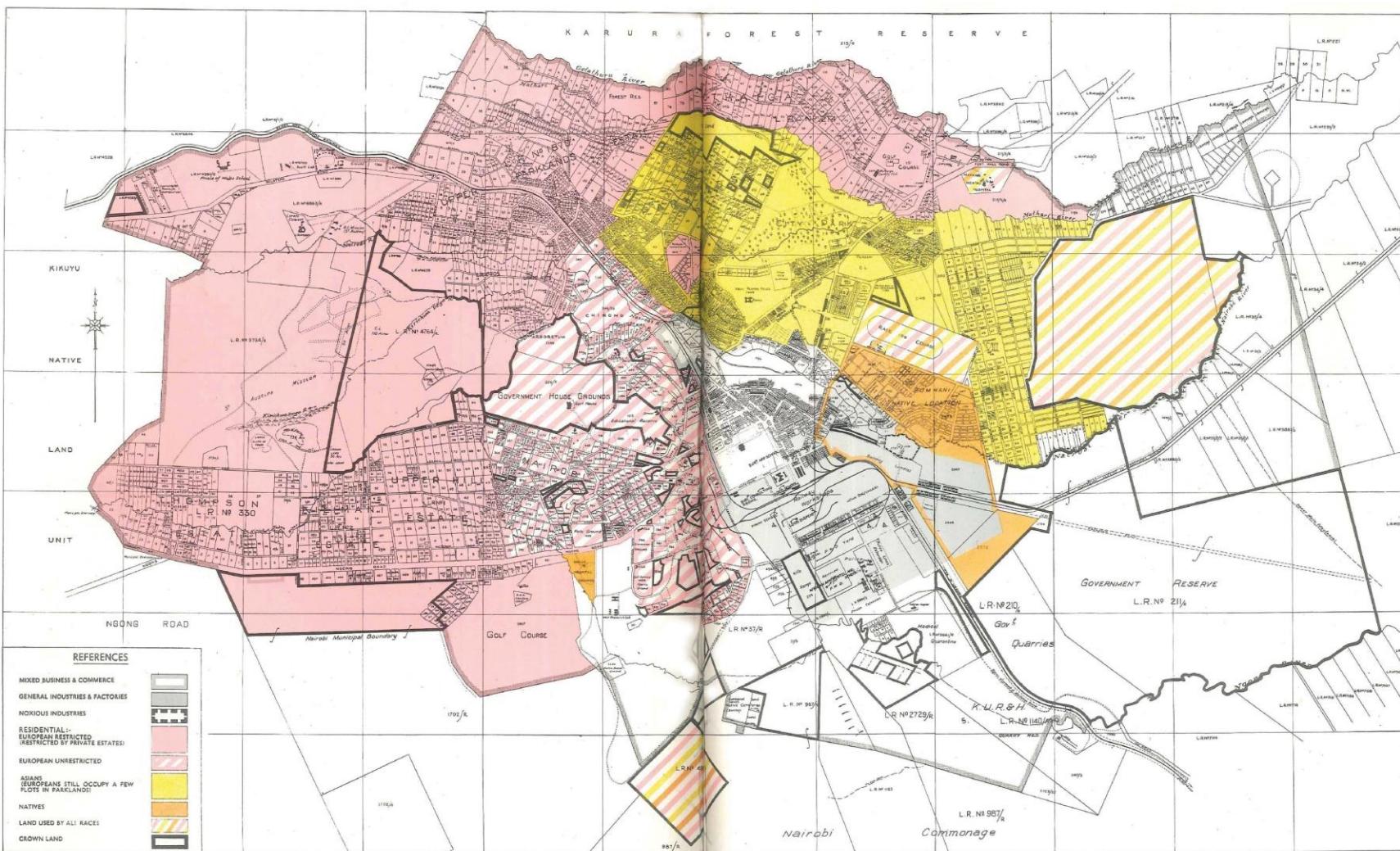
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NGONG ROAD IS NOT A ROAD | COLONIAL LEGACY



Colonial and Pre-Colonial Settlements in Kenya

NGONG ROAD IS NOT A ROAD | COLONIAL LEGACY

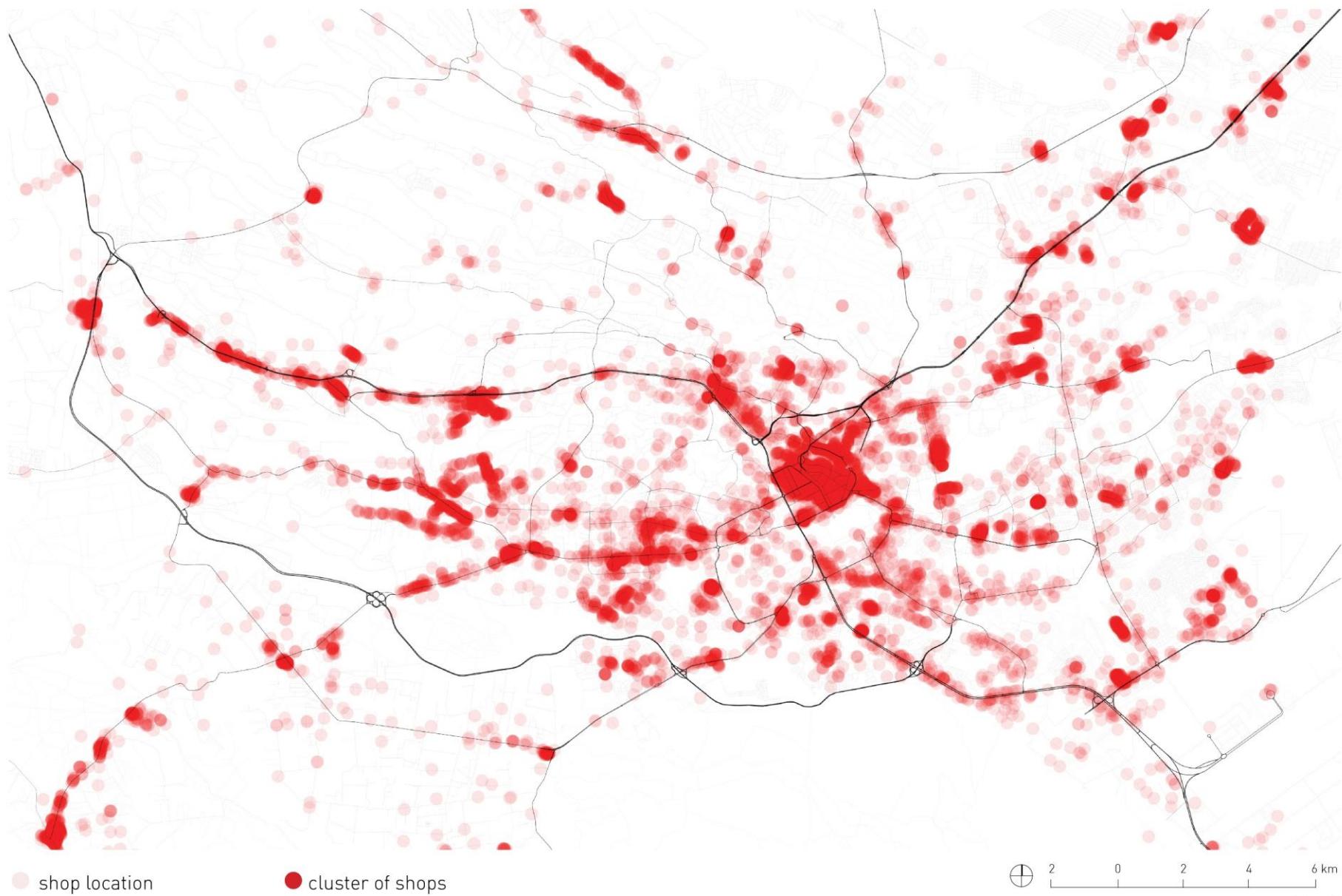


Racial Segregation according to the 1948 Masterplan

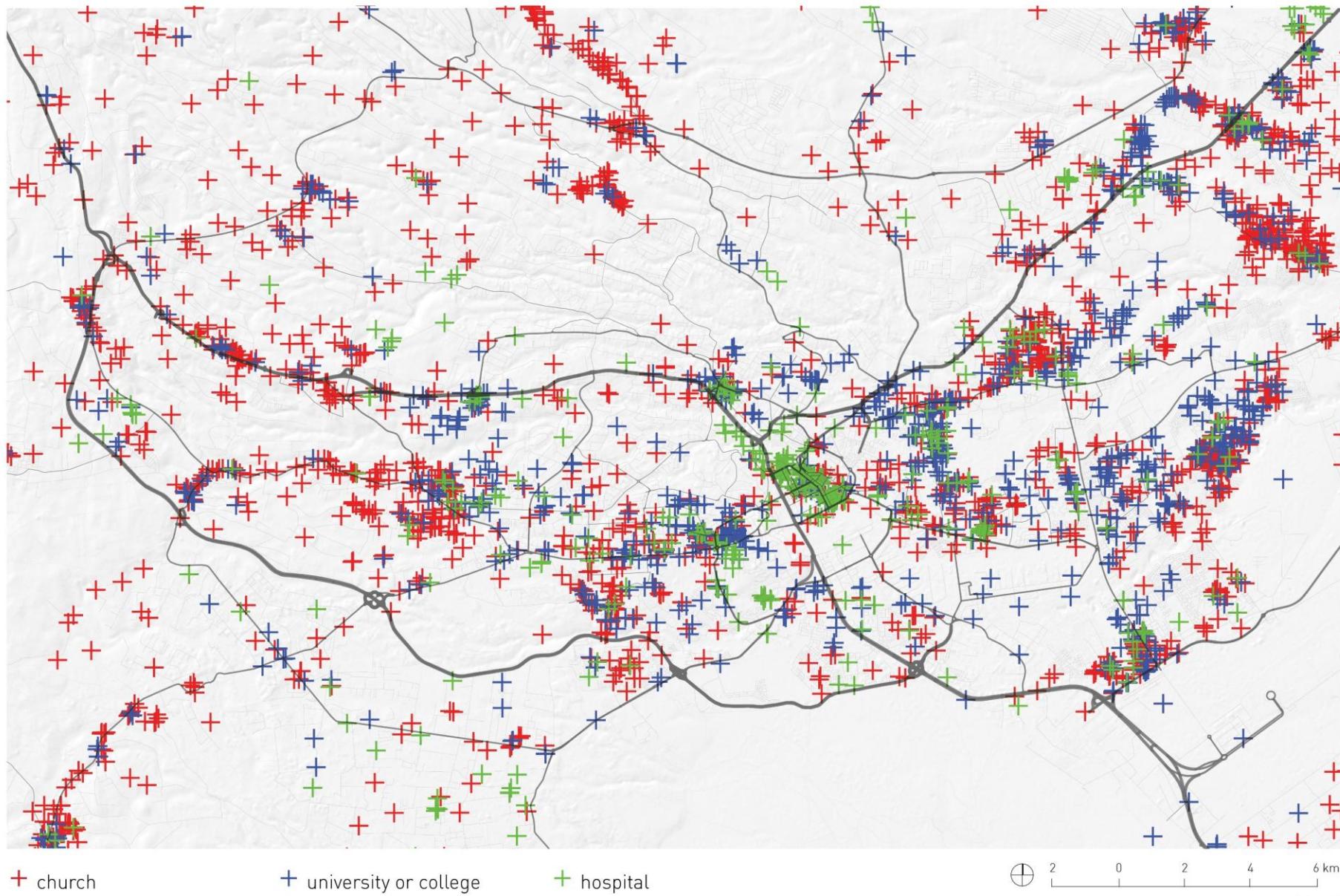
NGONG ROAD IS NOT A ROAD | THE IMPORTANCE OF THE STREETSCAPE



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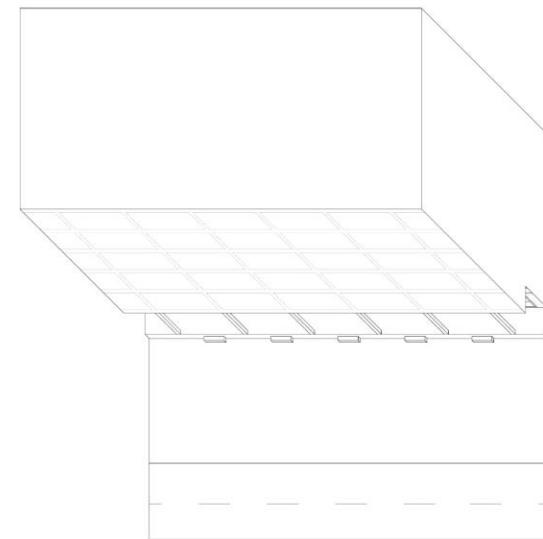
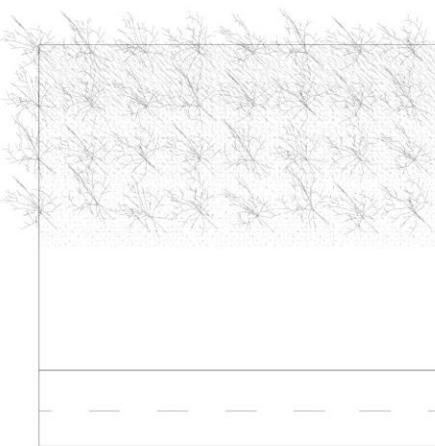
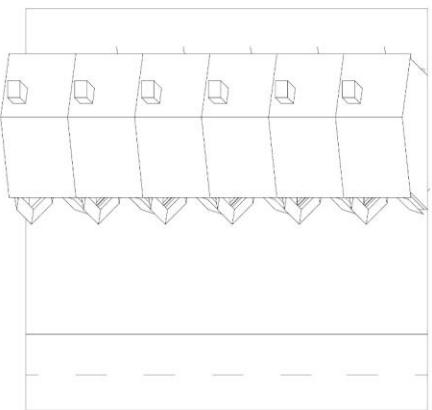
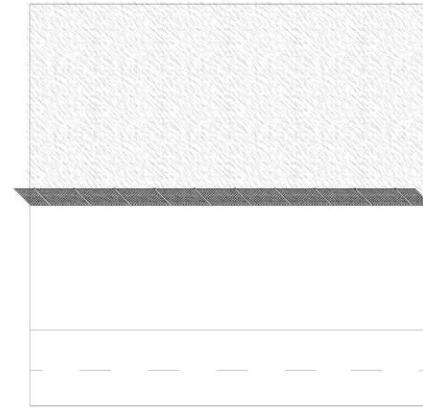
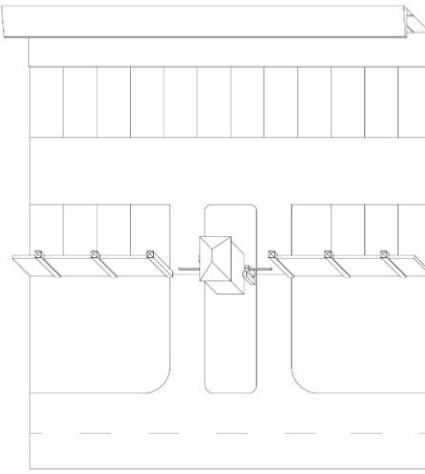
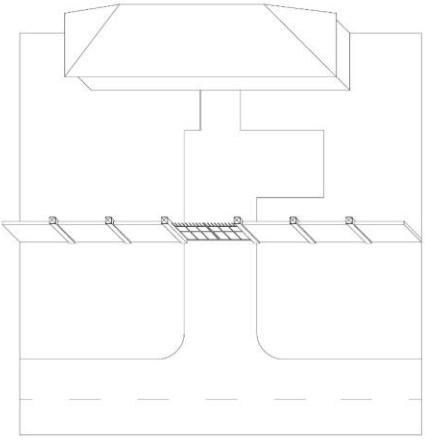


NGONG ROAD IS NOT A ROAD | THE IMPORTANCE OF THE STREETSCAPE

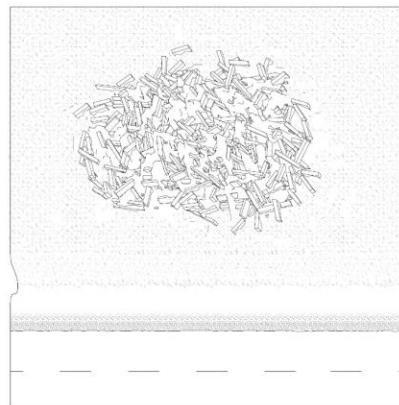
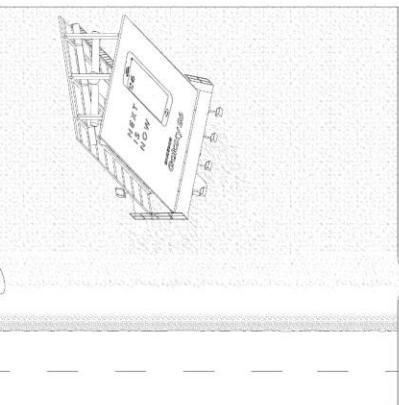
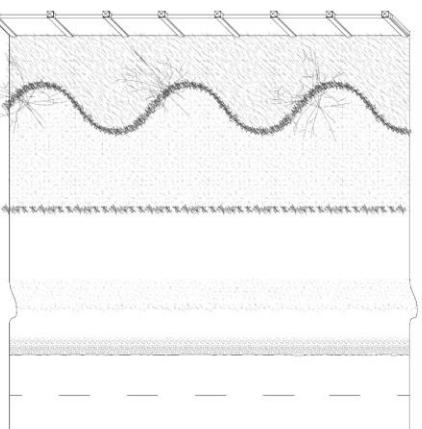
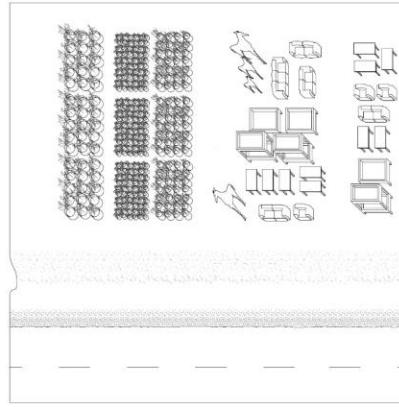
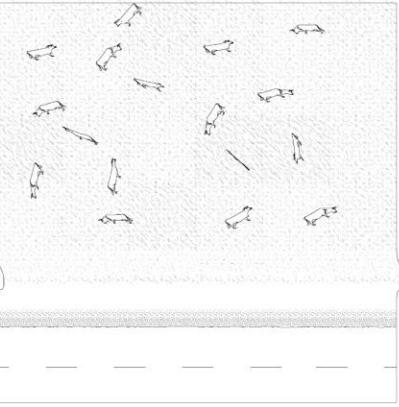
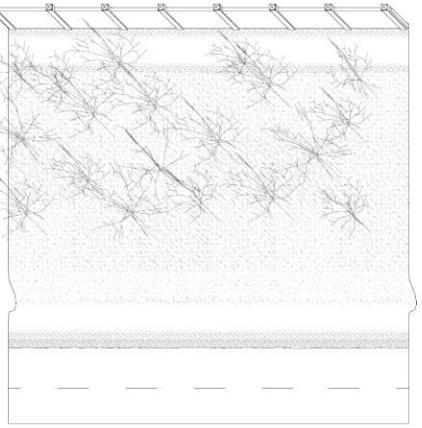
NGONG ROAD | LAND USE AT VARIOUS DEPTHS



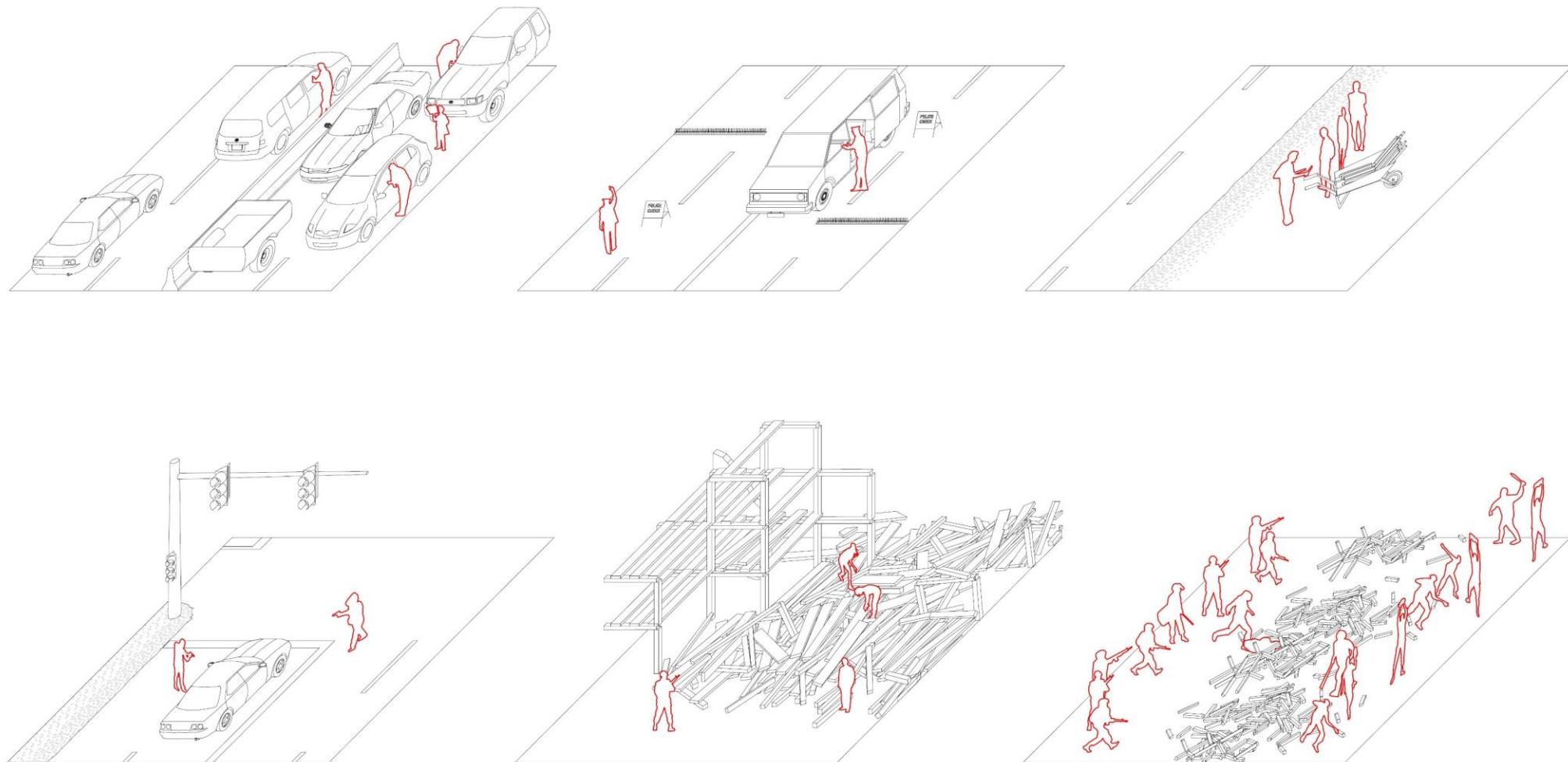
NGONG ROAD IS NOT A ROAD | THRESHOLDS



NGONG ROAD IS NOT A ROAD | APPROPRIATION OF SPACE



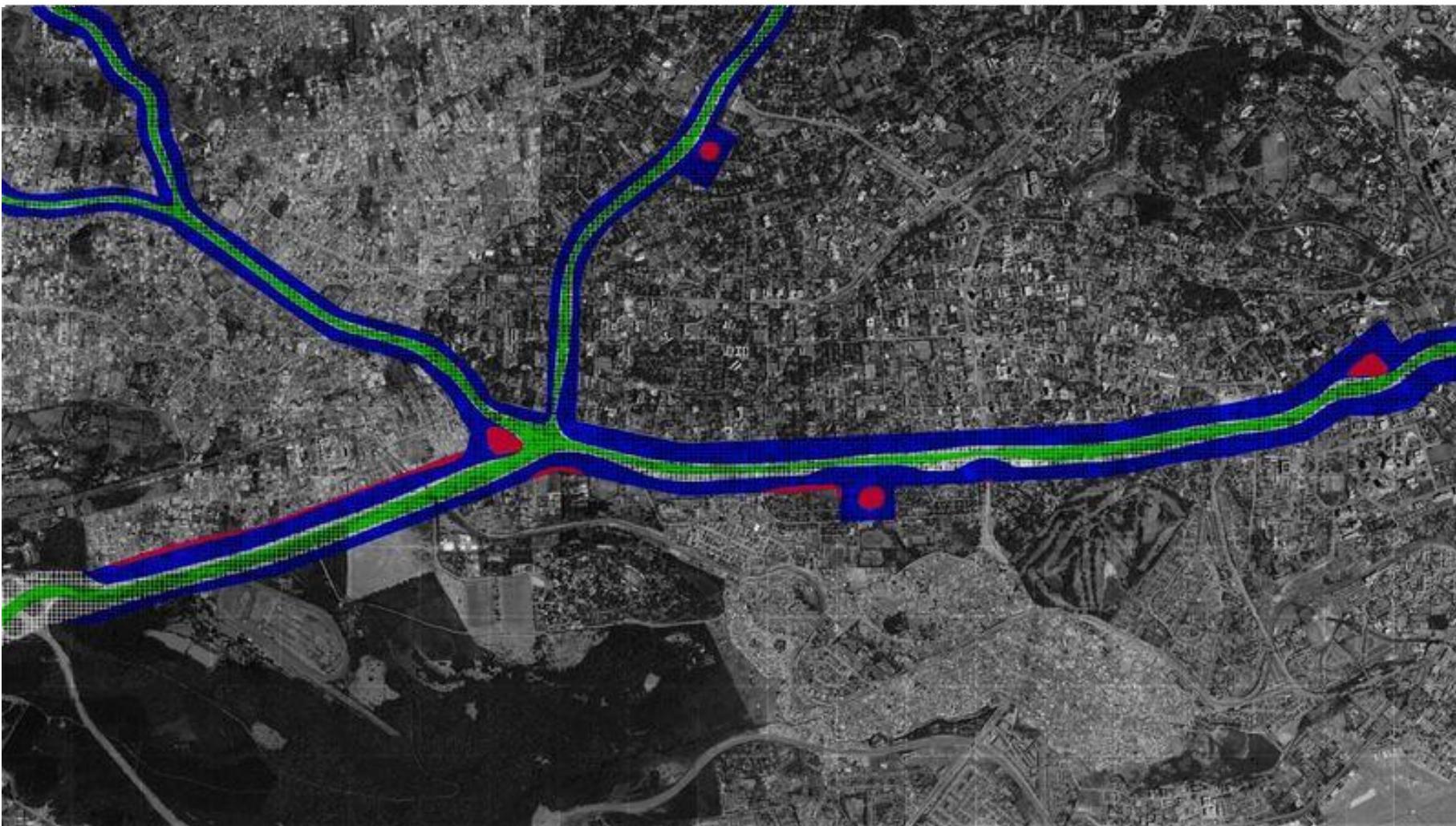
NGONG ROAD IS NOT A ROAD | NEGOTIATION OF SPACE



NGONG ROAD IS NOT A ROAD | CURRENT INTERVENTION



NGONG ROAD IS NOT A ROAD | NGONG ROAD AS NEGOTIATION



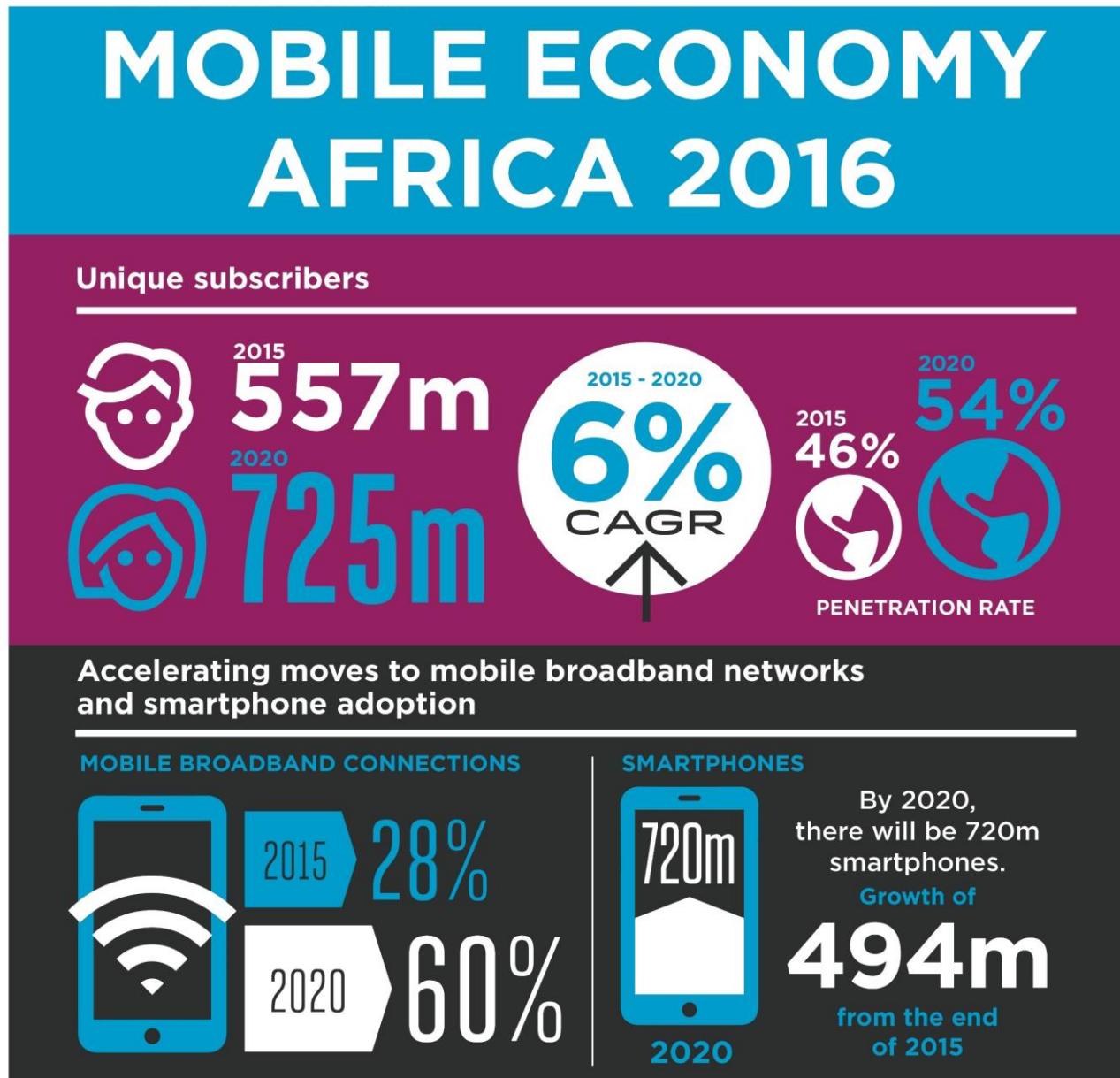
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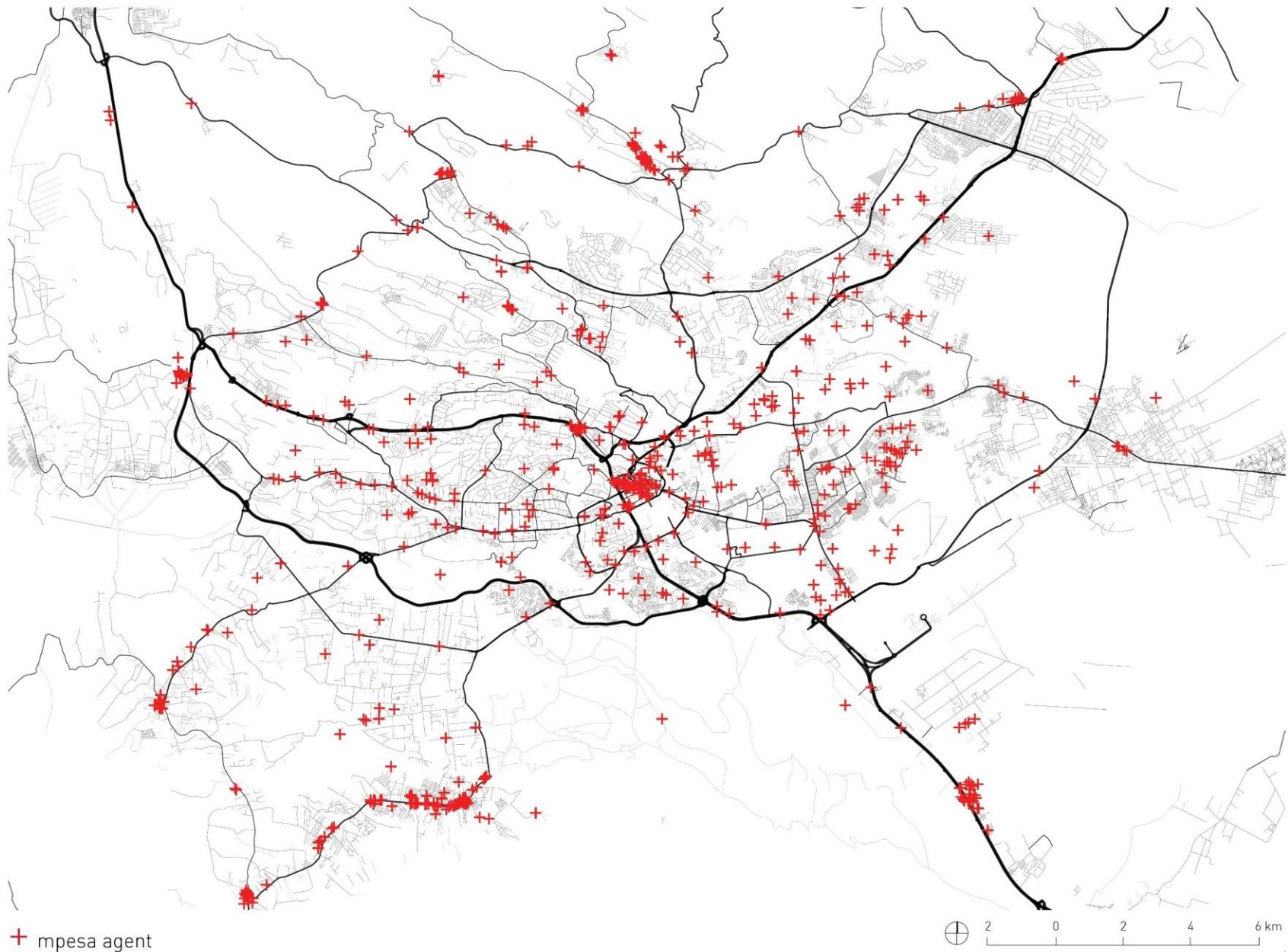
VISION | DIGITALISATION AS A CODIFIER



M-PESA.INNOVATION FOR THE NATION.

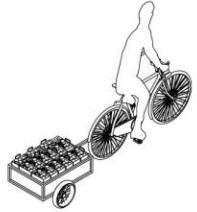
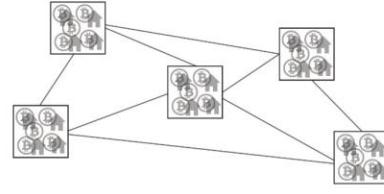
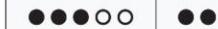
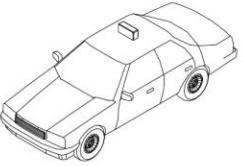
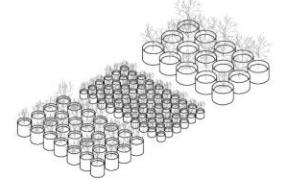
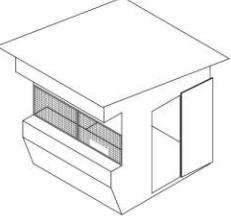
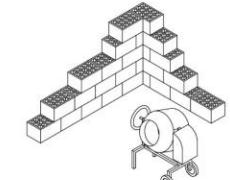
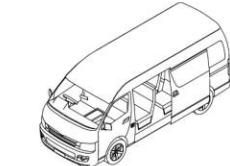
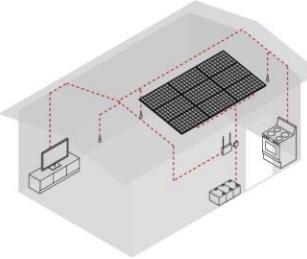
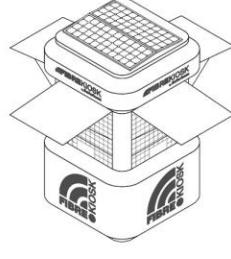
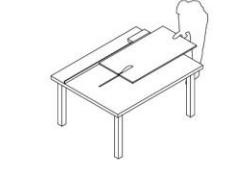
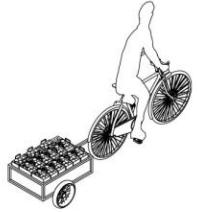
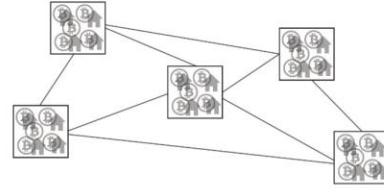


VISION | DIGITALISATION AS A CODIFIER



data retrieved from Google Places API; drawing by author

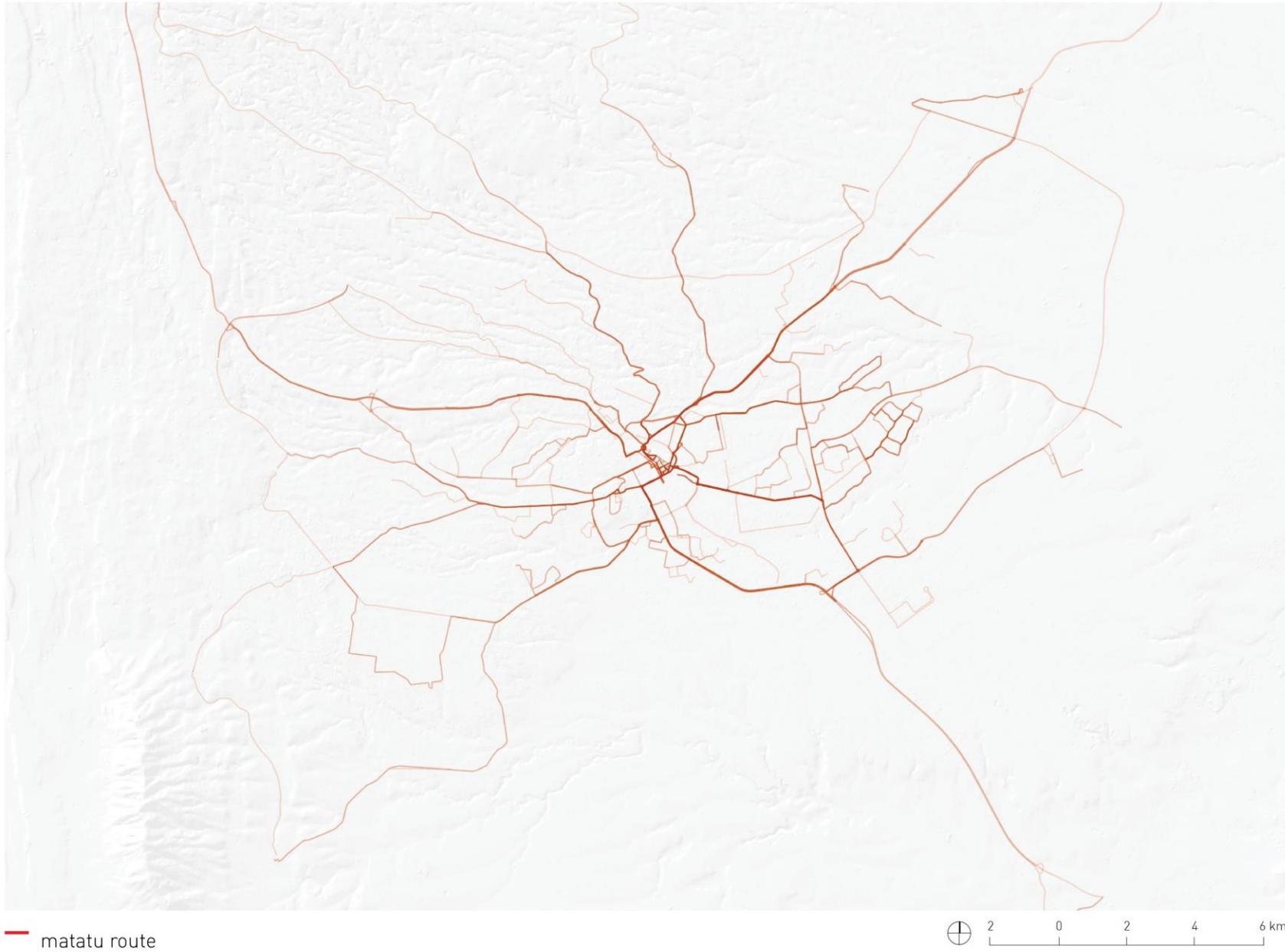
VISION | TYPOLOGIES OF THE NEW FORMAL

				
L₁ THE MOBILE DUKA SPATIAL IMPACT 	L₂ THE DIGITAL HOTELI SPATIAL IMPACT 	L₃ THE DIGITAL MUUZA SPATIAL IMPACT 	L₄ THE DIGITAL BODABODA SPATIAL IMPACT 	S₃ THE DIGITAL LAND LEDGER SPATIAL IMPACT 
				
L₆ THE DIGITAL TEKSI SPATIAL IMPACT 	L₇ THE DIGITAL BUSTANI SPATIAL IMPACT 	L₈ THE DIGITAL DUKA SPATIAL IMPACT 	L₉ THE DIGITAL MFUNDI SPATIAL IMPACT 	S₄ THE DIGITAL MATATU SPATIAL IMPACT 
				
I₂ THE DIGITAL ADDRESS SPATIAL IMPACT 	I₃ THE DISTRIBUTED POWER PLANT SPATIAL IMPACT 	I₄ THE FIBRE KIOSK SPATIAL IMPACT 	I₅ THE DIGITAL MSANAA SPATIAL IMPACT 	S₂ THE DIGITAL HARAMBEE SPATIAL IMPACT 
				

THE NEW FORMAL | THE DIGITAL MATATU

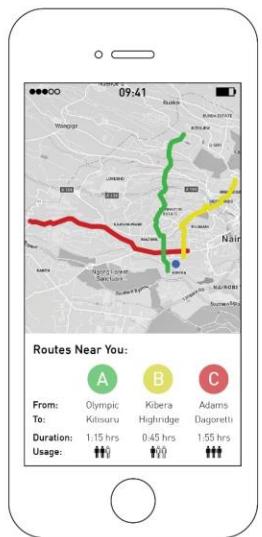


THE NEW FORMAL | THE DIGITAL MATATU

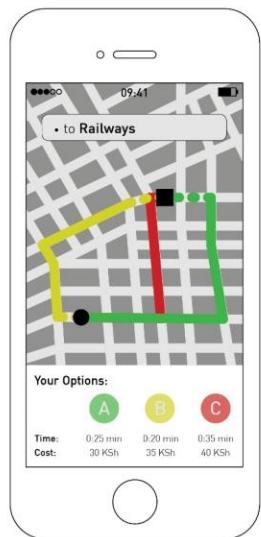
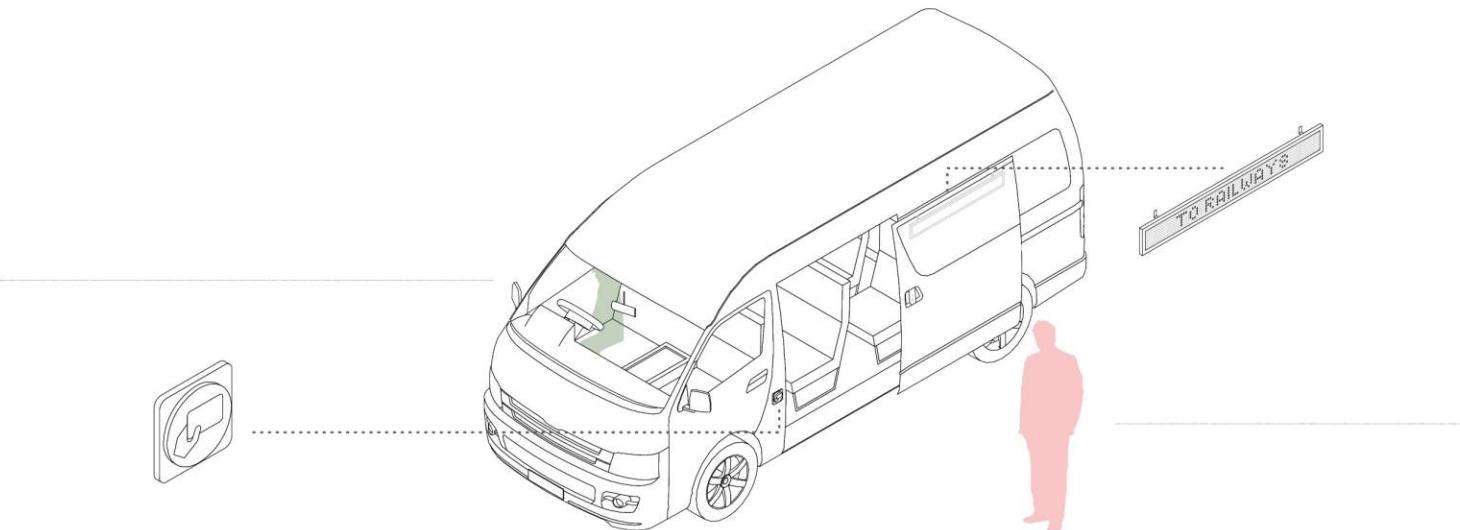


data retrieved from the Digital Matatu Project

THE NEW FORMAL | THE DIGITAL MATATU



DRIVER INTERFACE



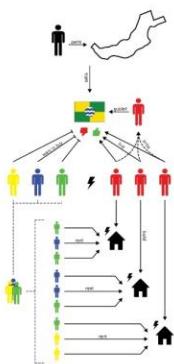
COMMUTER INTERFACE

THE NEW FORMAL | THE DIGITAL LAND LEDGER

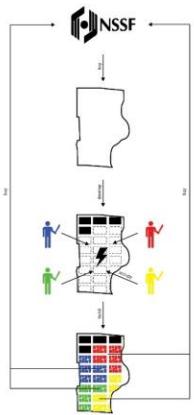


THE NEW FORMAL | THE DIGITAL LAND LEDGER

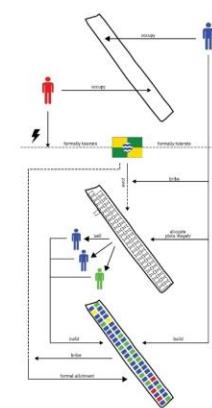
1. CORRUPT DISTRIBUTION



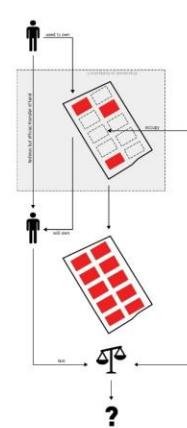
2. FORCEFUL & VIOLENT OCCUPATION



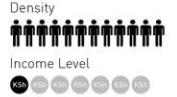
3. OBSCURE POLITICAL PROCESS



4. NON-VIOLENT OCCUPATION



MATHARE NORTH



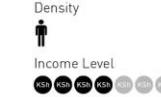
TASSIA



JUA KALI



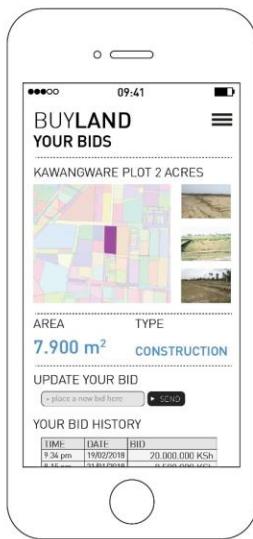
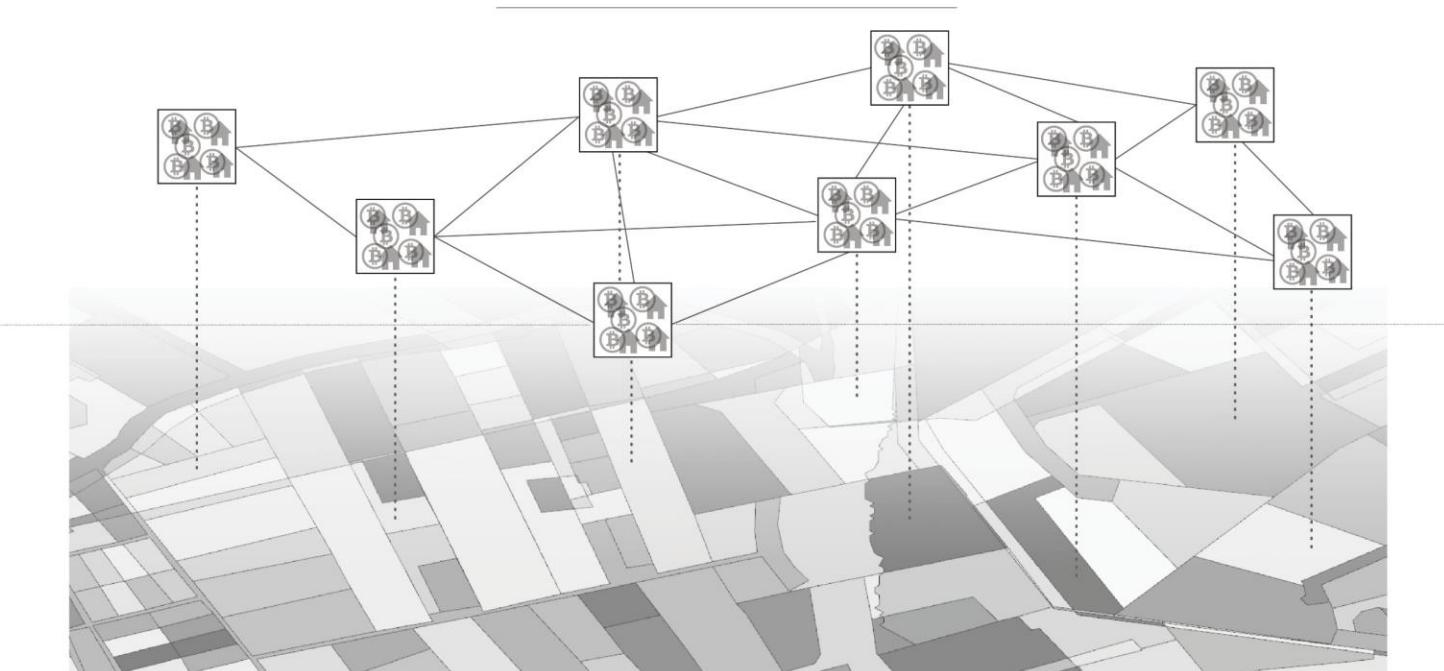
Pipeline



THE NEW FORMAL | THE DIGITAL LAND LEDGER



SELLER INTERFACE

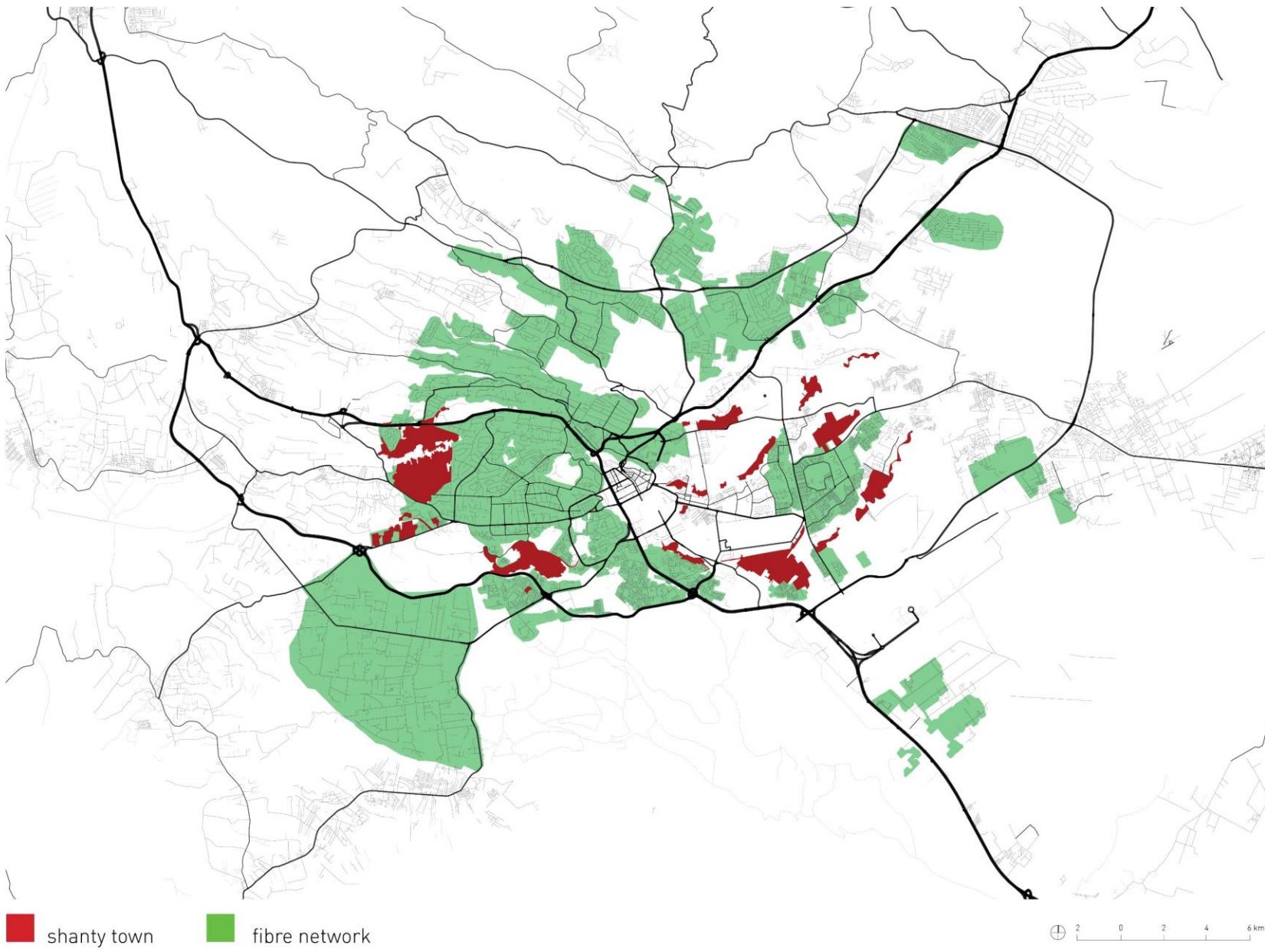


BUYER INTERFACE

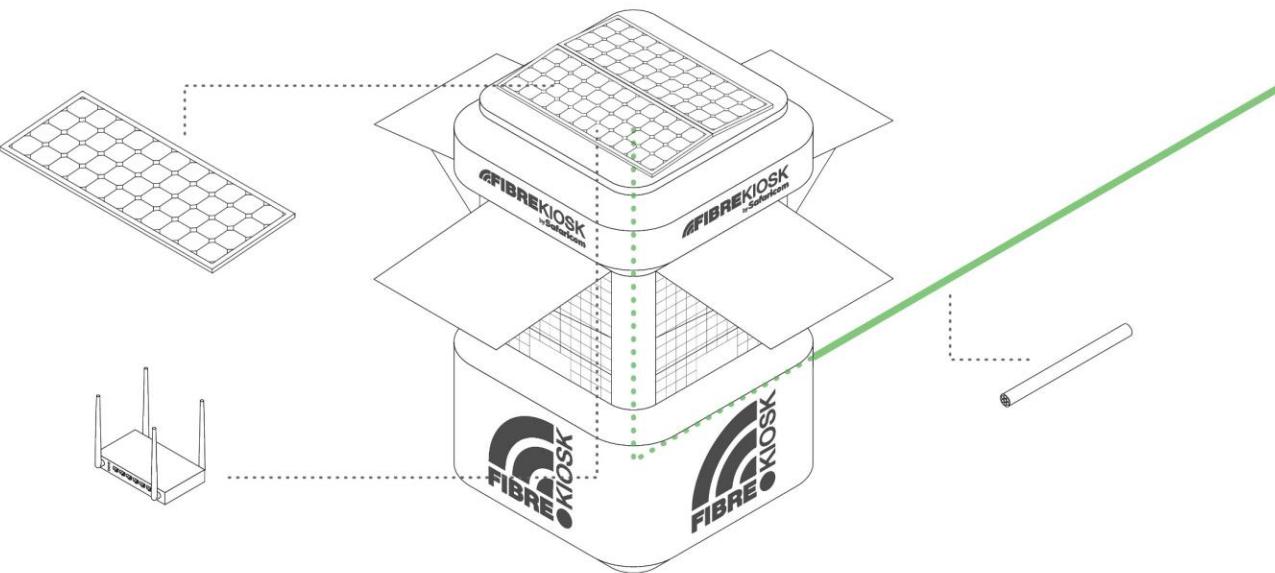
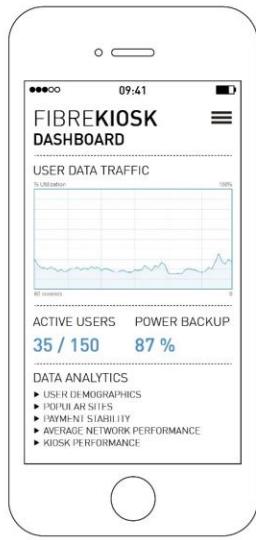
THE NEW FORMAL | THE FIBRE KIOSK



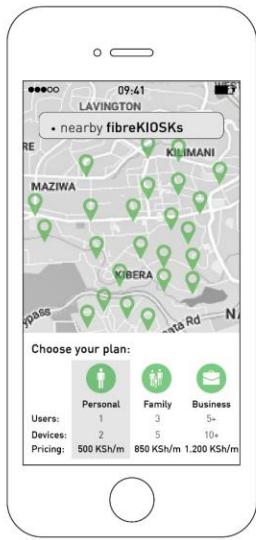
THE NEW FORMAL | THE FIBRE KIOSK



THE NEW FORMAL | THE FIBRE KIOSK



OPERATOR INTERFACE



USER INTERFACE

RESEARCH
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CONCEPT | STATUS QUO OF URBAN DESIGN IN NAIROBI



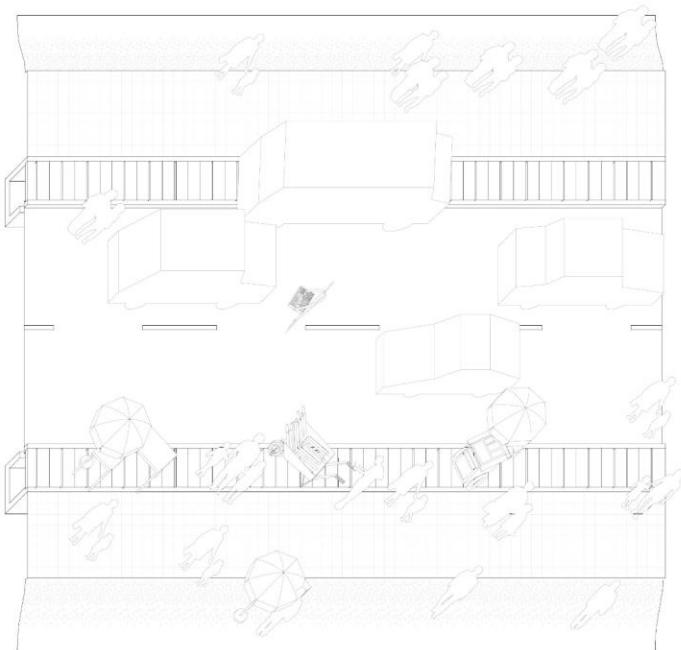
OVER-DETERMINACY

VS.



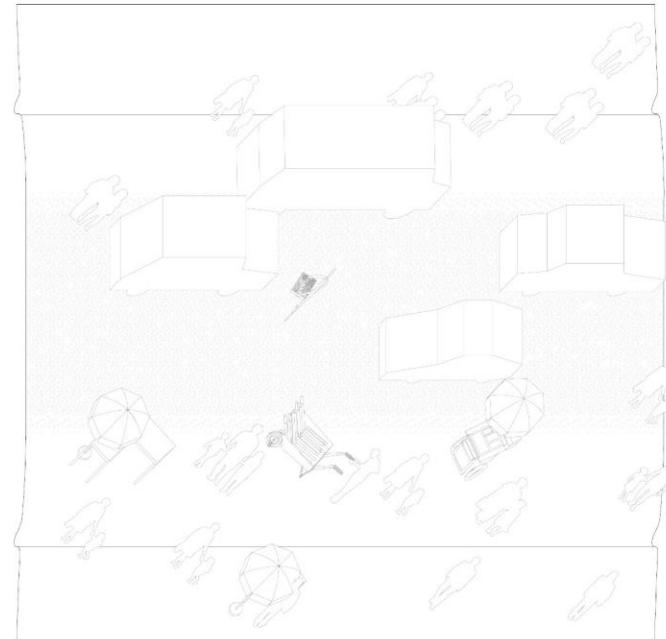
ANARCHY

CONCEPT | STATUS QUO OF URBAN DESIGN IN NAIROBI



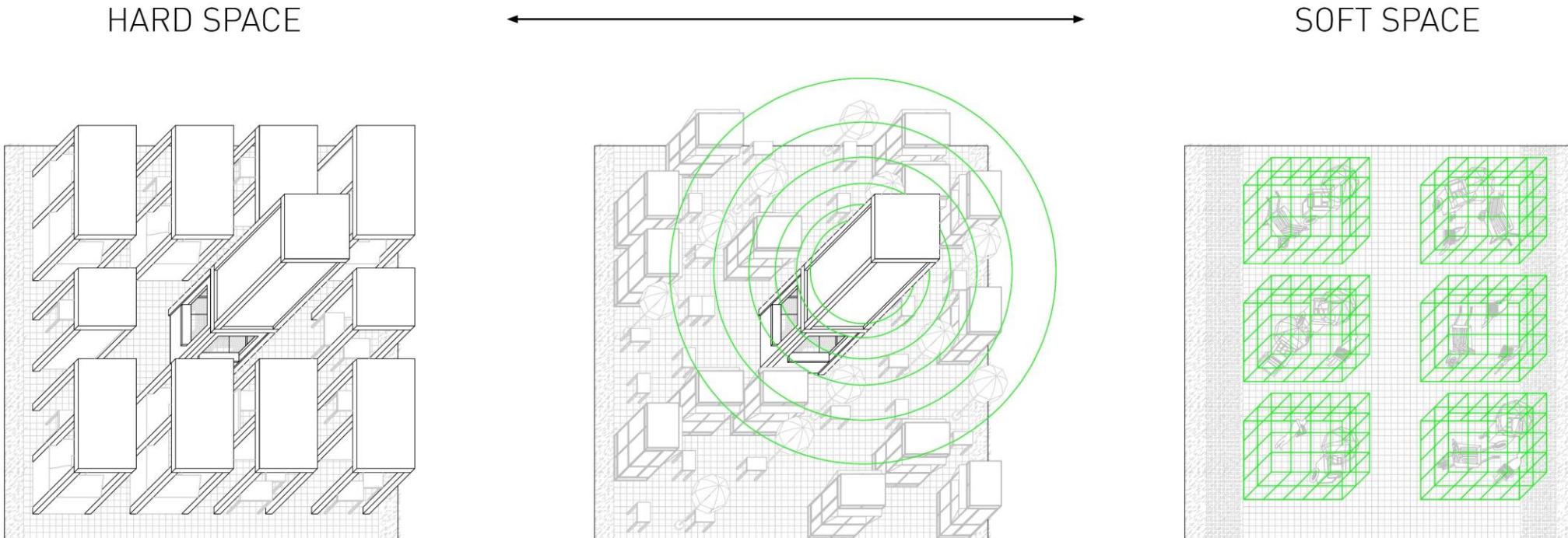
OVER-DETERMINACY

VS.



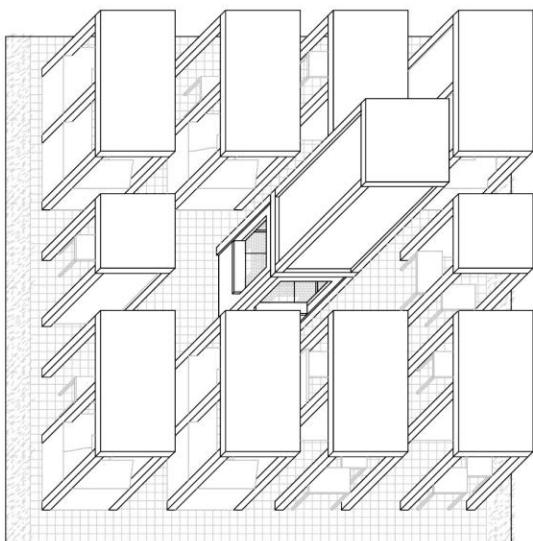
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CONCEPT | HARD AND SOFT SPACES

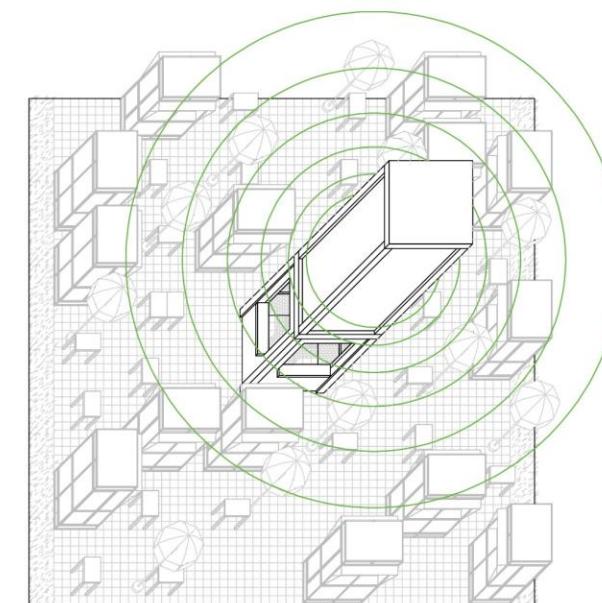


CONCEPT | HARD AND SOFT SPACES

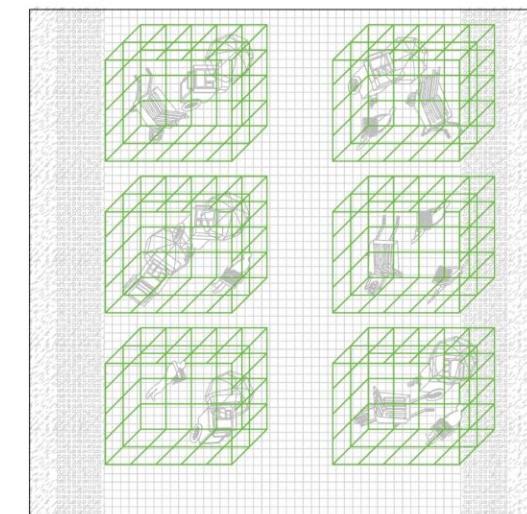
HARD SPACE



SOFT SPACE



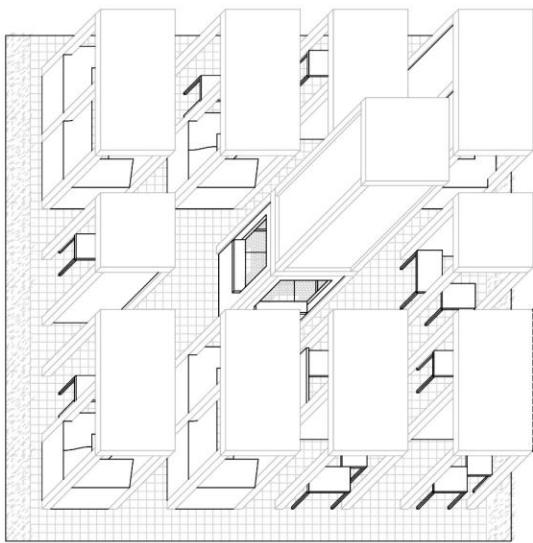
PHYSICAL SPACE



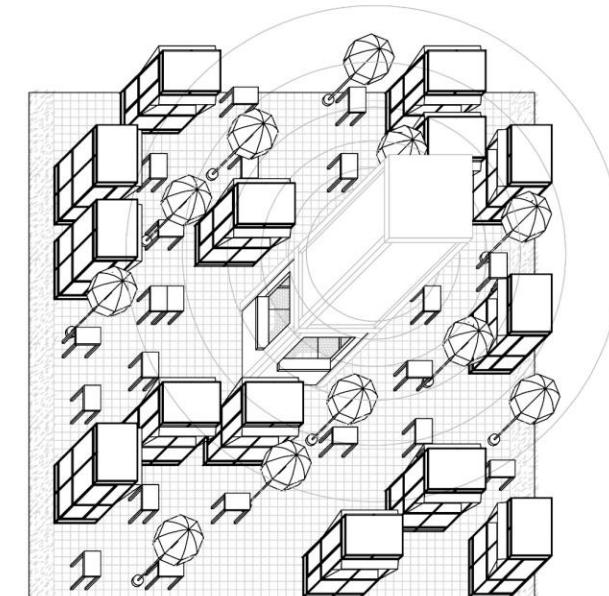
DIGITAL SPACE

CONCEPT | HARD AND SOFT SPACES

HARD SPACE

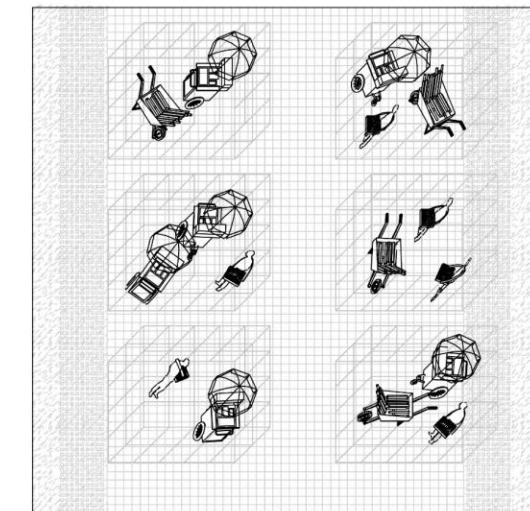


SOFT SPACE

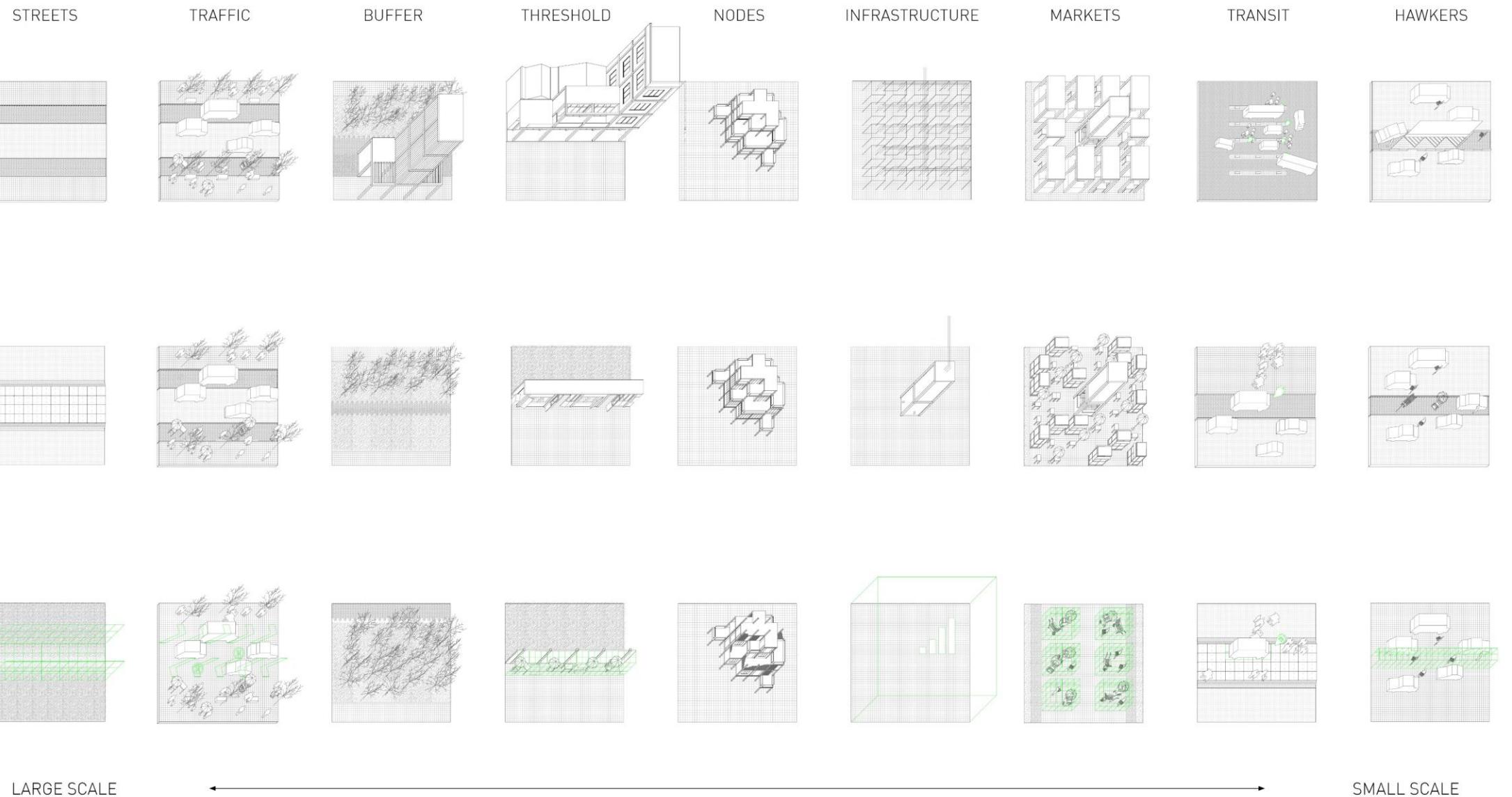


PERMANENT APPROPRIATION

TEMPORARY APPROPRIATION



CONCEPT I HARD AND SOFT TYPOLOGIES



TYPOLOGIES | TRAFFIC SPACE



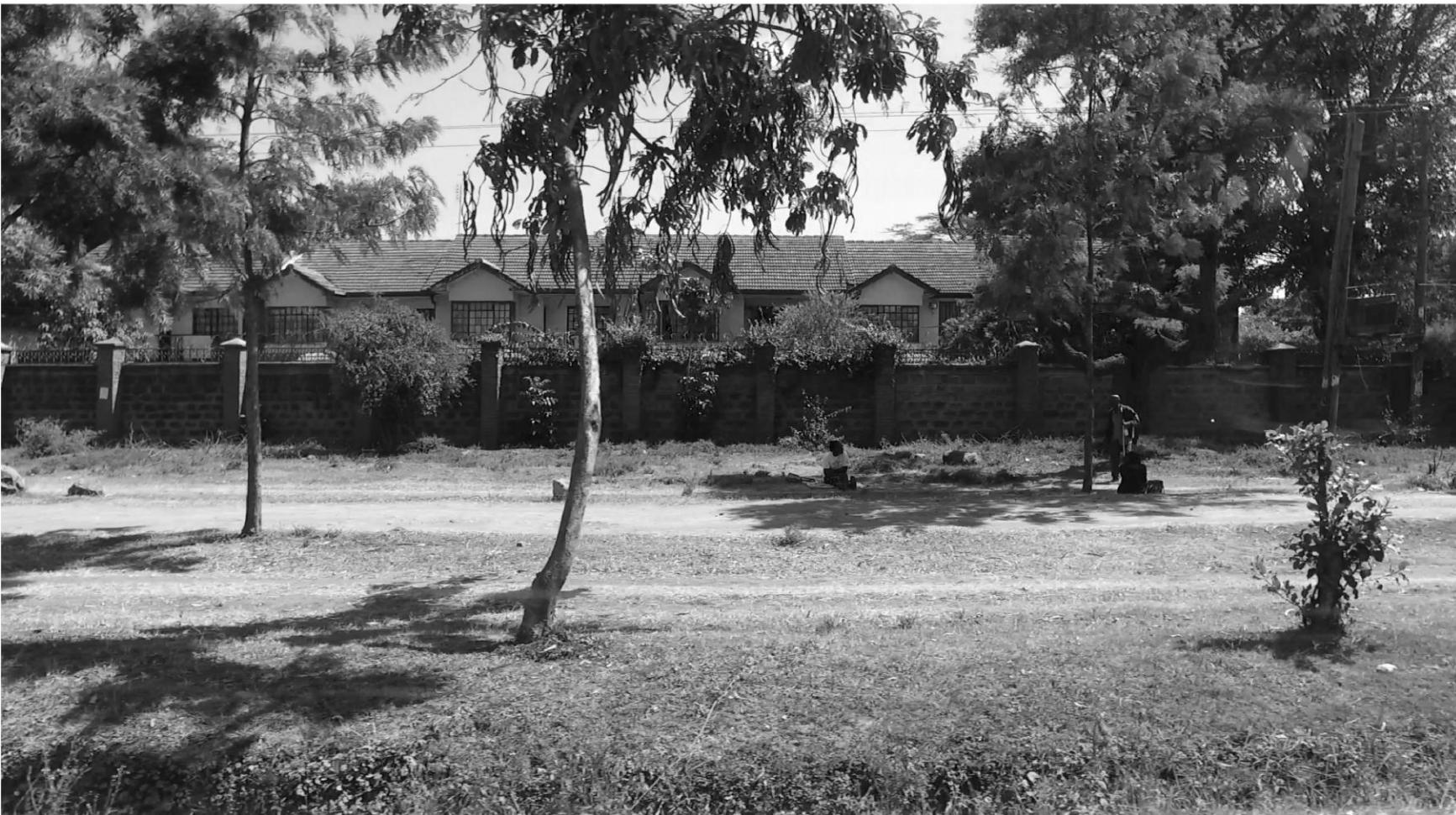
TYPOLOGIES | TRAFFIC SPACE



TYPOLOGIES | TRAFFIC SPACE



TYPOLOGIES | BUFFER SPACE



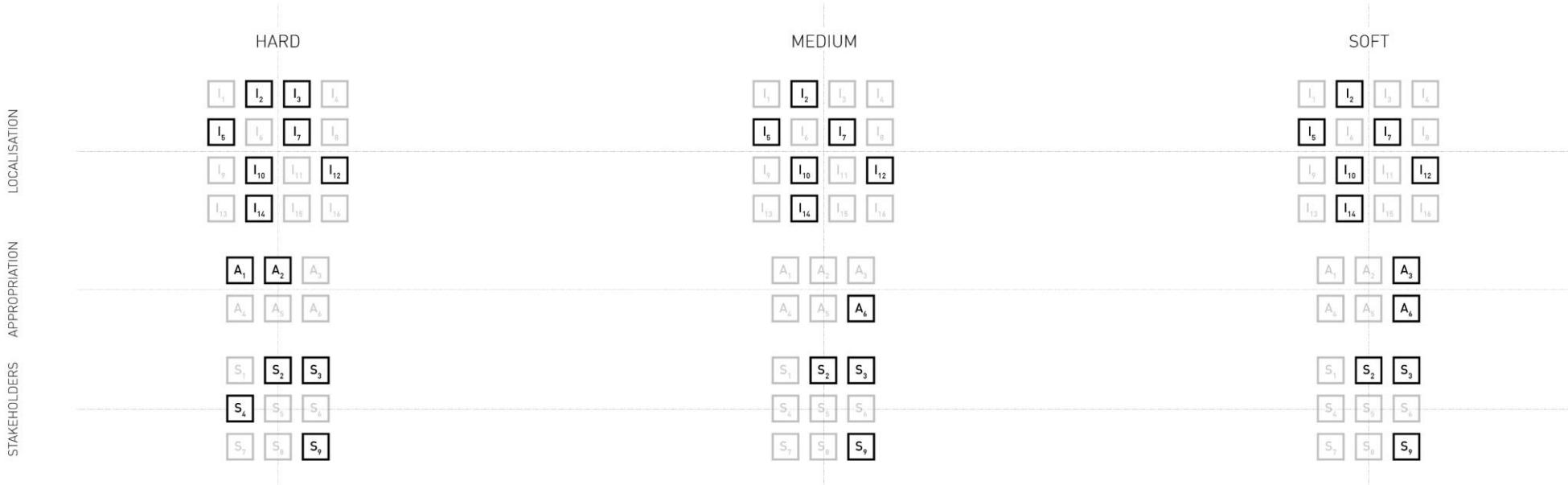
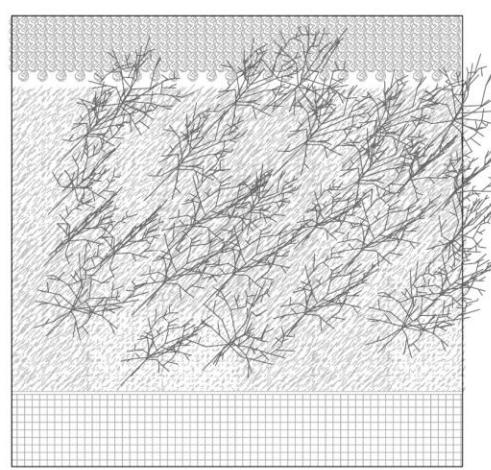
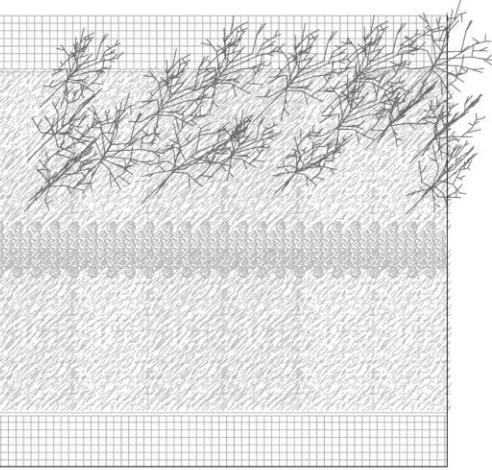
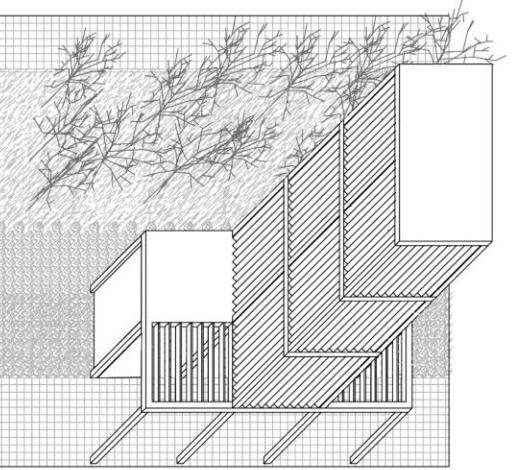
TYPOLOGIES | BUFFER SPACE



TYPOLOGIES | BUFFER SPACE



TYPOLOGIES | BUFFER SPACE



TYPOLOGIES | THRESHOLD SPACE



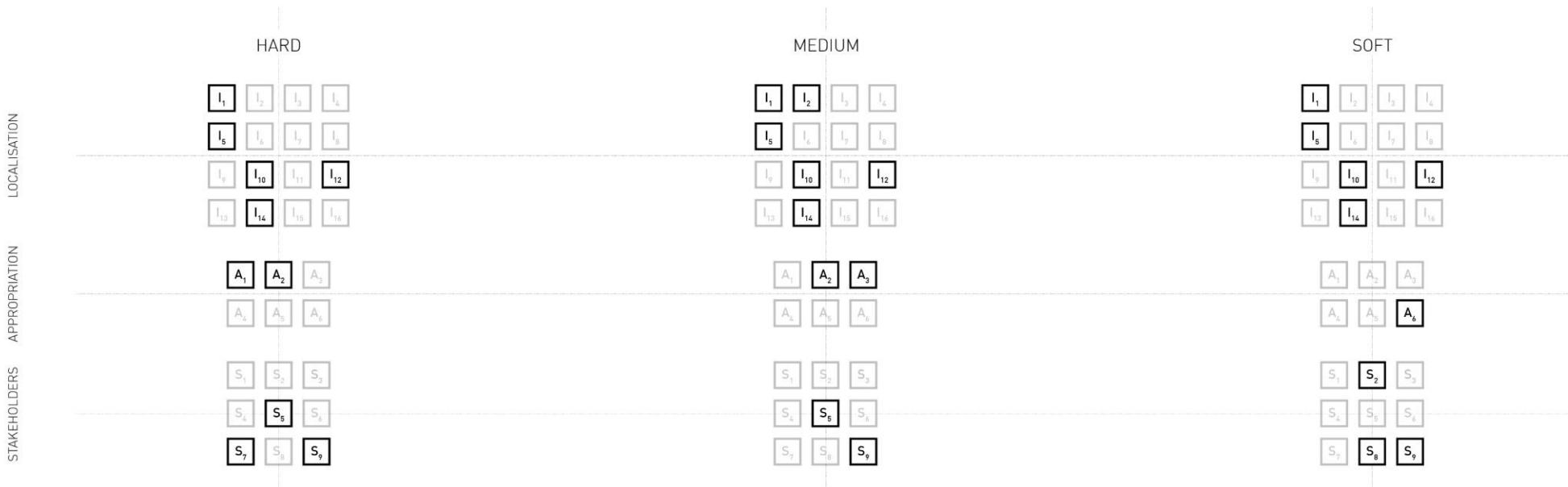
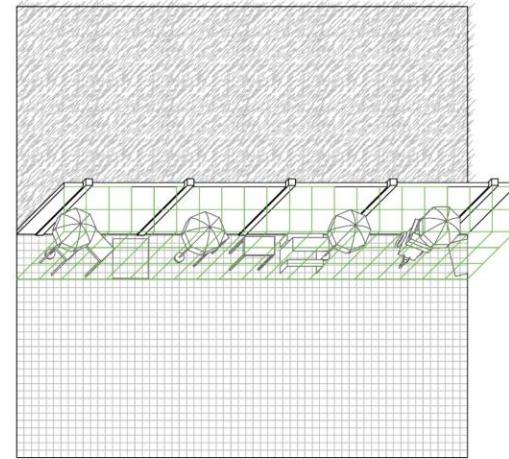
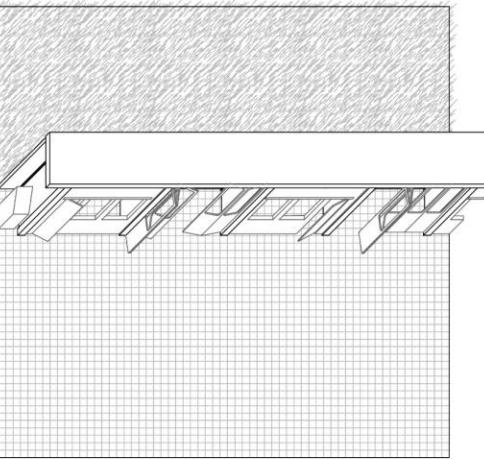
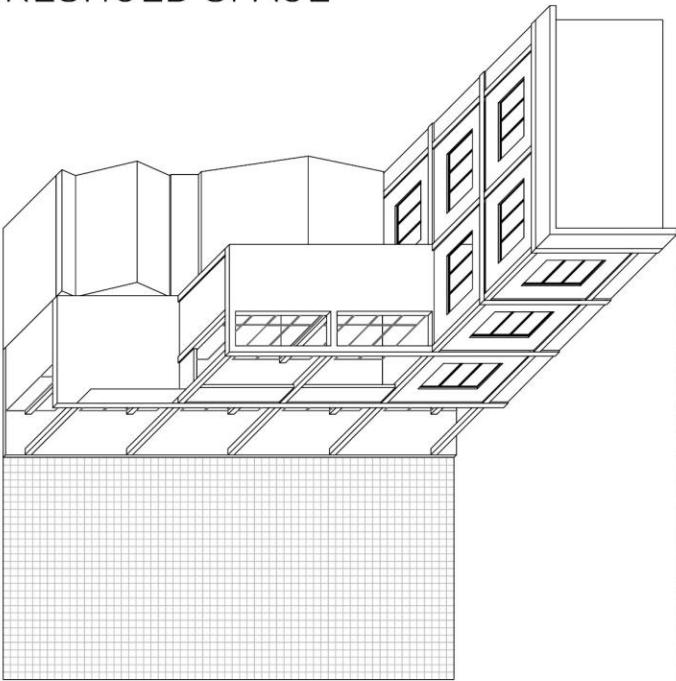
TYPOLOGIES | THRESHOLD SPACE



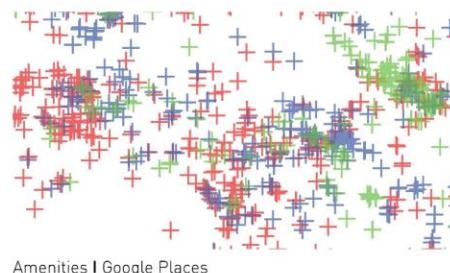
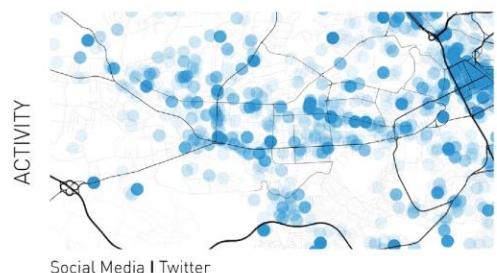
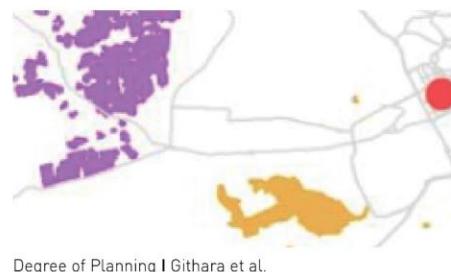
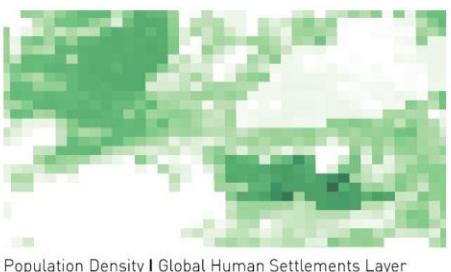
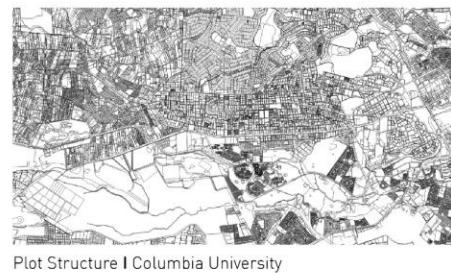
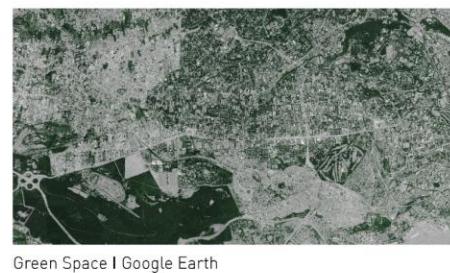
TYPOLOGIES | THRESHOLD SPACE



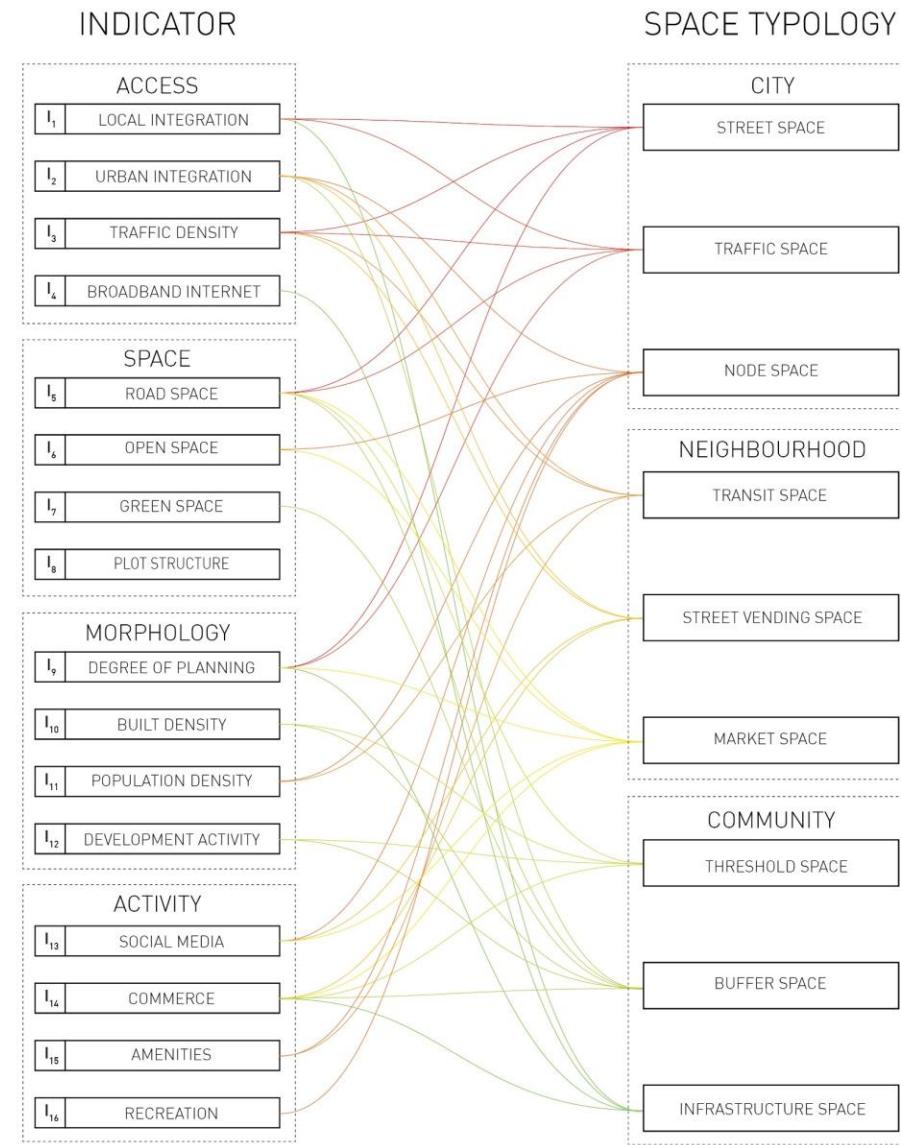
TYPOLOGIES | THRESHOLD SPACE



ALLOCATING TYPOLOGIES | INDICATORS



ALLOCATING TYPOLOGIES | INDICATORS



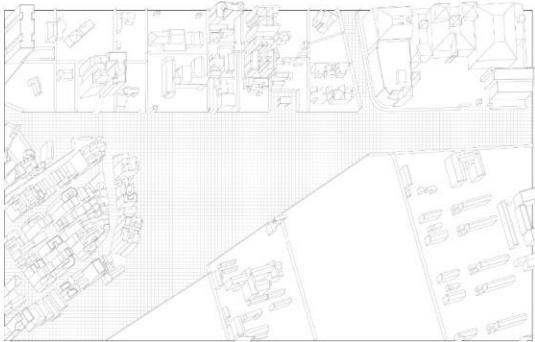
RESEARCH
VISION
CONCEPT
CASES
CHARACTER
BECOMING

NGONG ROAD IS NOT A ROAD
CODIFYING NAIROBIs JUA KALI
HARD AND SOFT SPACE
DESIGNING NGONG ROAD
FROM PLAN TO SPACE
ARRIVING TO A NEW NAIROBI

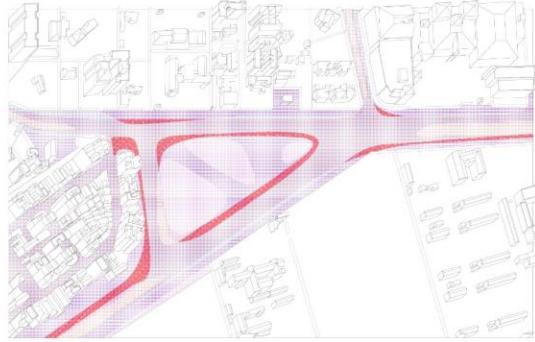
DESIGNING NGONG ROAD | DESIGN PROCESS



1 | STATUS QUO



2 | TABULA RASA



3 | FREE FLOW ANALYSIS



4 | DYNAMIC ZONING



5 | DETERMINING HARD-SOFT SPACE



6 | MASTER PLAN



7 | ALLOCATING TYPOLOGIES



7 | SCENARIO TESTING

DESIGNING NGONG ROAD | CASE SITES



Case Sites | Junction | Mekina

500 0 500 1000 1500 m

JUNCTION I | STATUS QUO



Junction I | Aerial Photo

JUNCTION | STATUS QUO

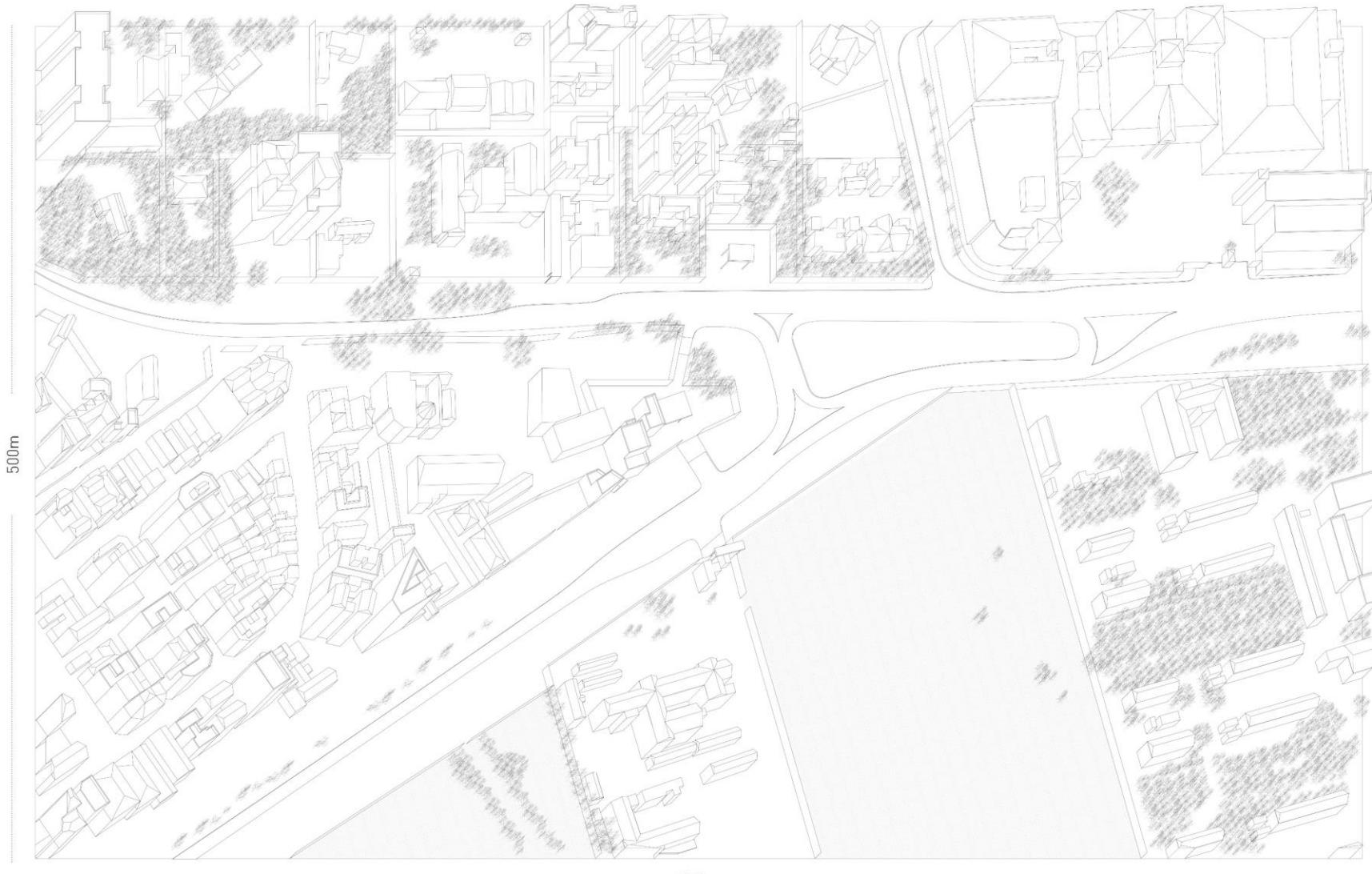


Junction | View Towards Dagoretti



Junction | View Towards Central Nairobi

JUNCTION I STATUS QUO



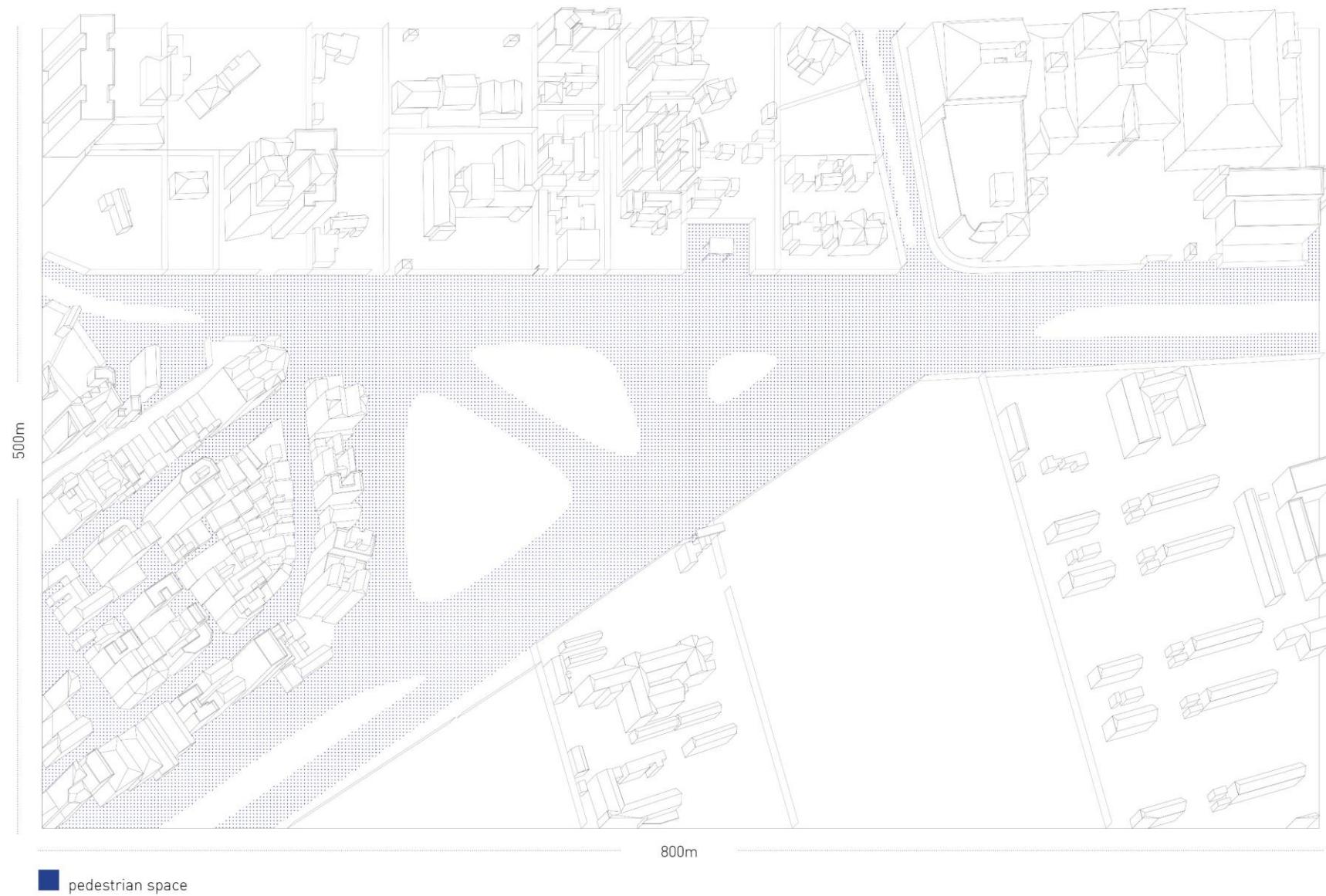
Junction I Status Quo

JUNCTION I TABULA RASA



Junction I Tabula Rasa

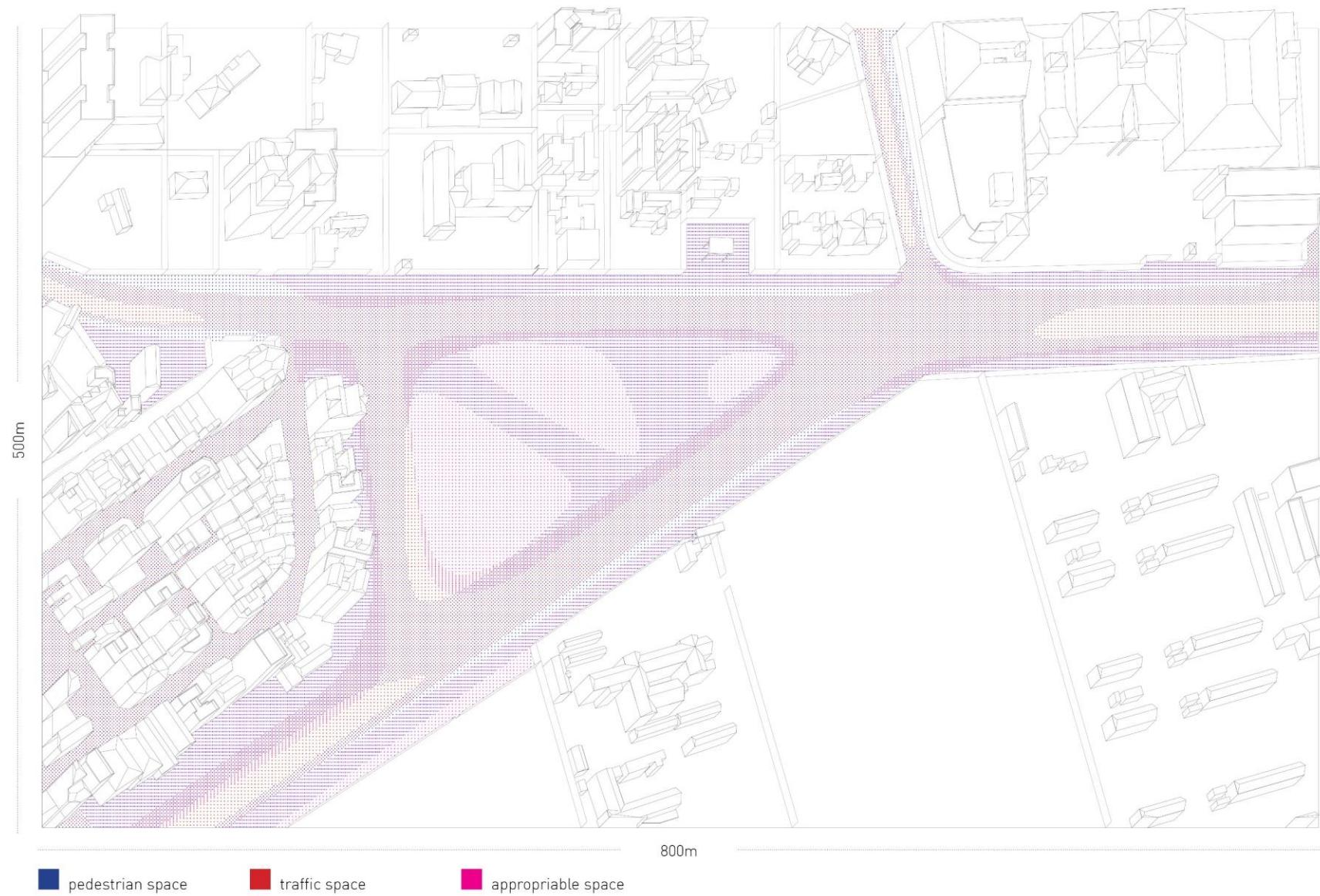
JUNCTION | FREE FLOW ANALYSIS



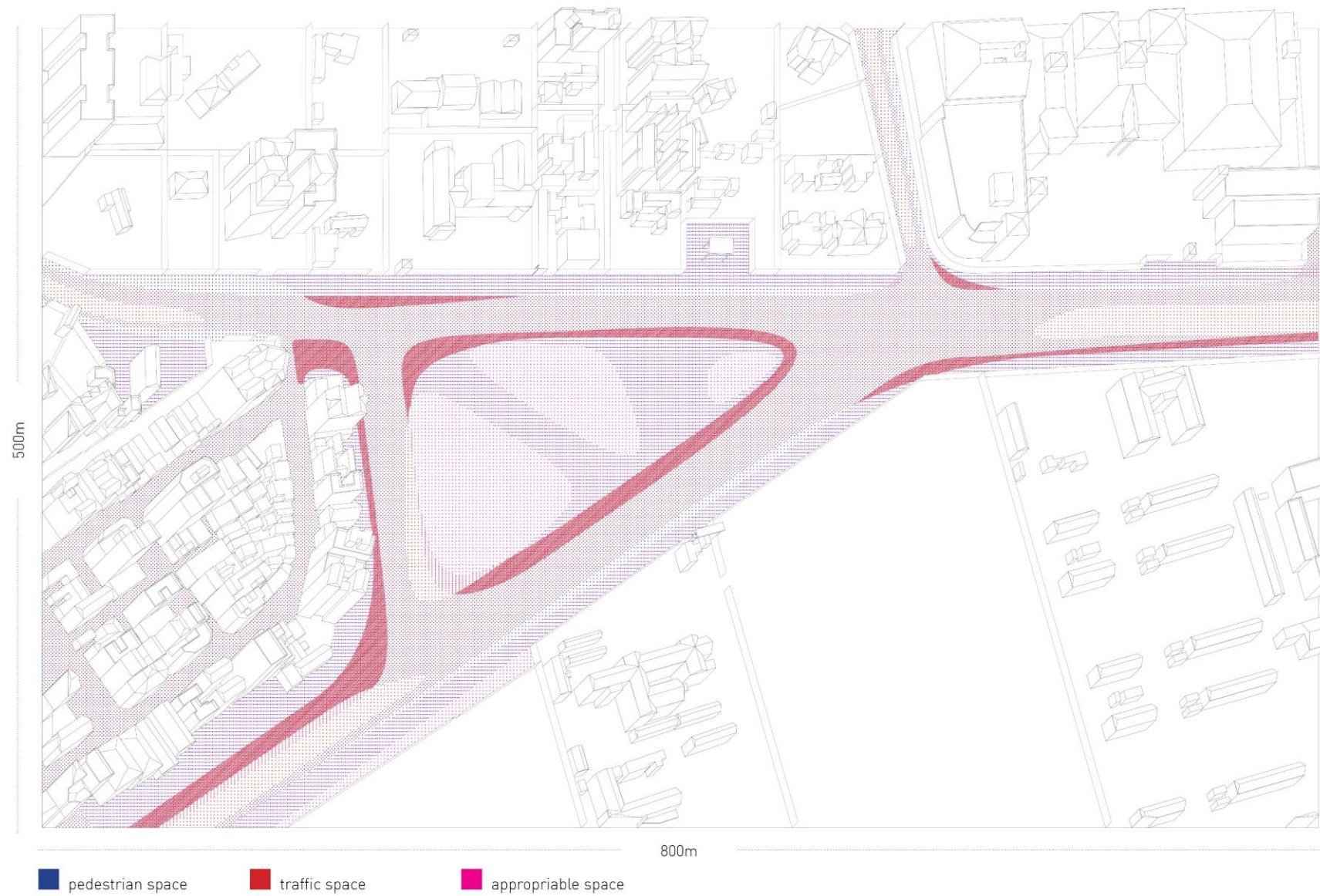
JUNCTION | FREE FLOW ANALYSIS



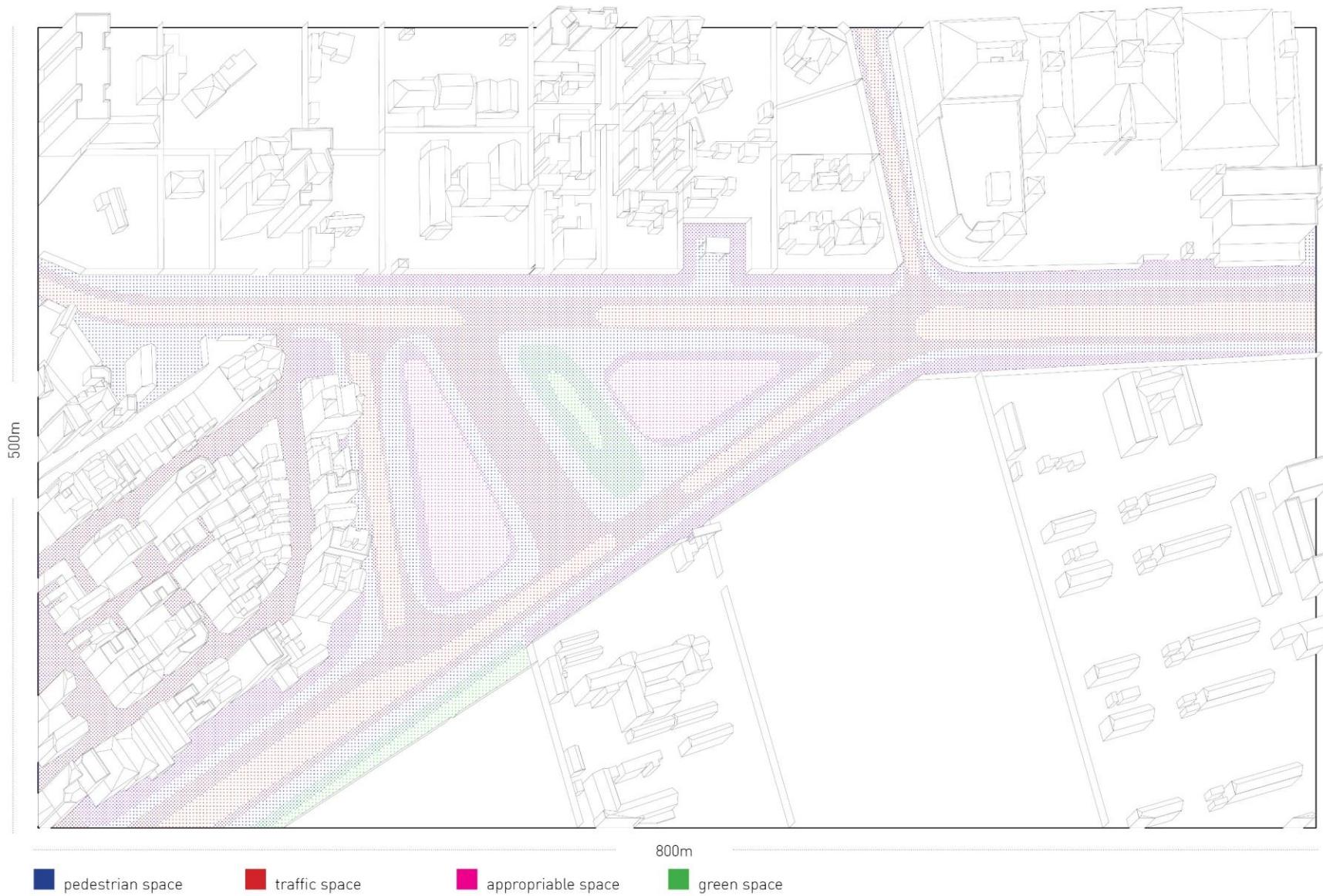
JUNCTION I FREE FLOW ANALYSIS



JUNCTION I FREE FLOW ANALYSIS



JUNCTION | DYNAMIC ZONING



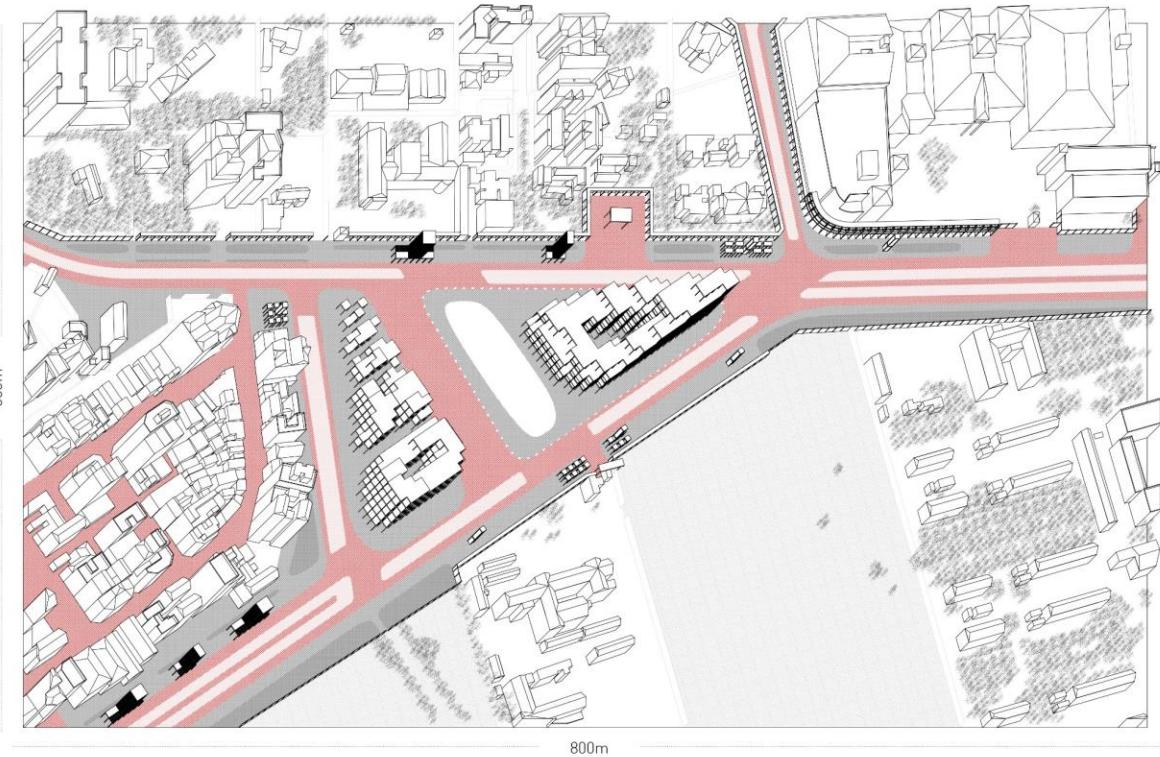
JUNCTION I HARD AND SOFT SPACE



hard traffic space
based on local indicators

medium traffic space
based on local indicators

soft traffic space
based on local indicators



Junction I Proposed Traffic Space

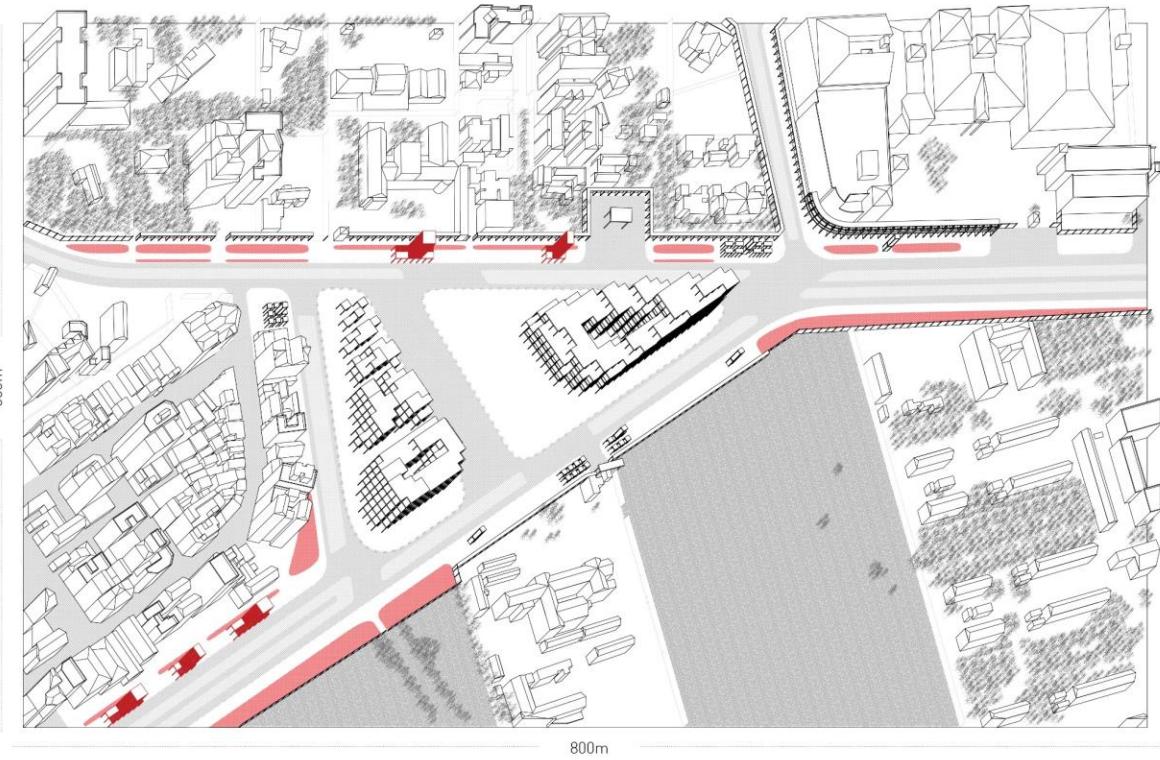
JUNCTION I HARD AND SOFT SPACE



hard buffer space
based on local indicators

medium buffer space
based on local indicators

soft buffer space
based on local indicators



Junction I Proposed Buffer Space

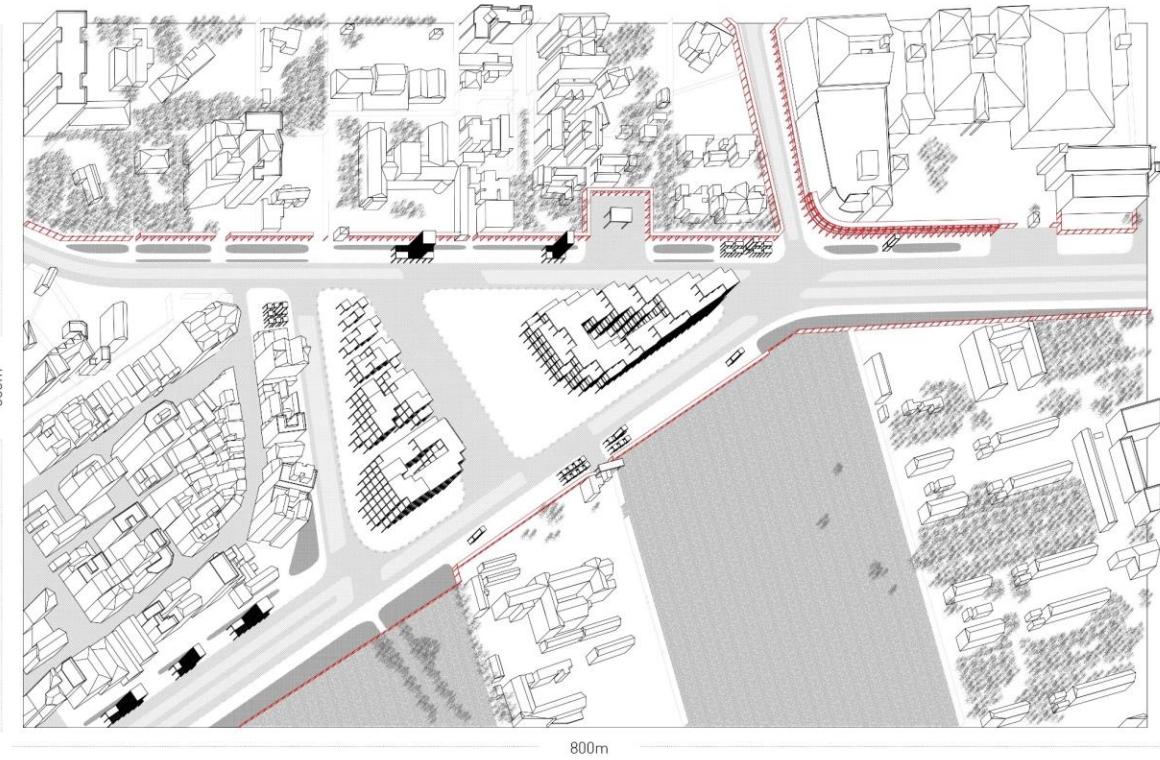
JUNCTION I HARD AND SOFT SPACE



hard threshold space
based on local indicators

medium threshold space
based on local indicators

soft threshold space
based on local indicators



Junction I Proposed Threshold Space

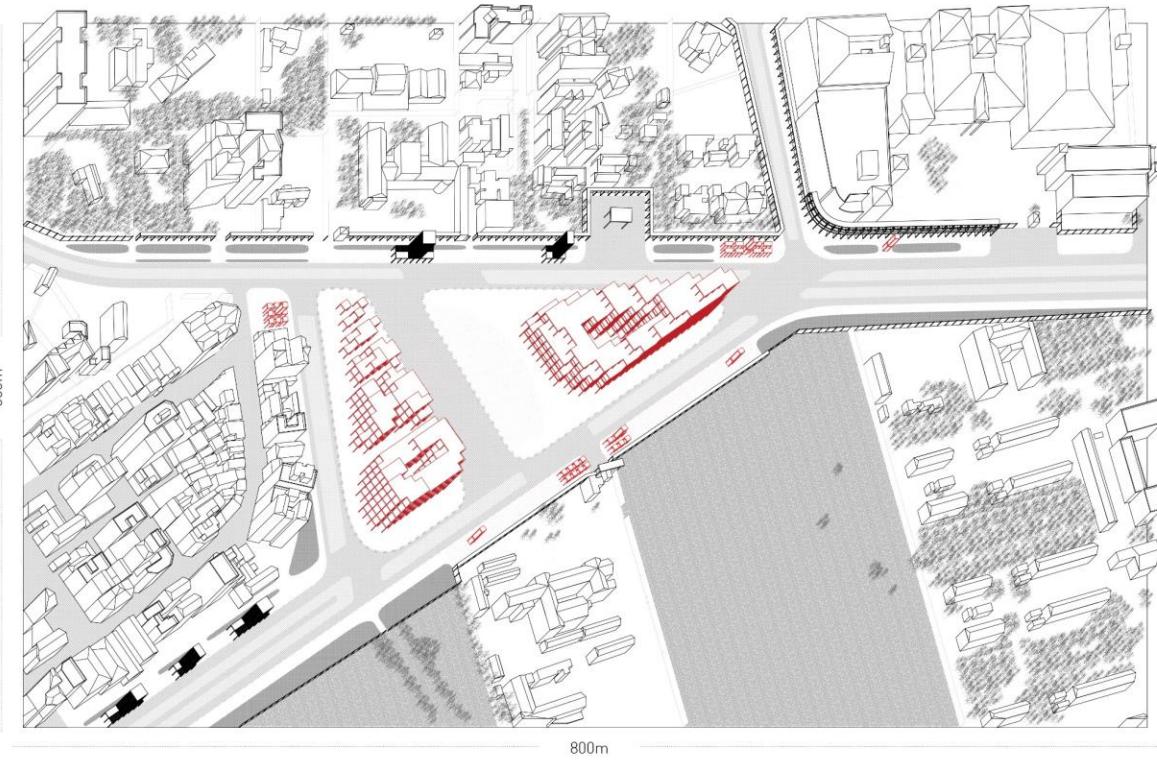
JUNCTION I HARD AND SOFT SPACE



hard market space
based on local indicators

medium market space
based on local indicators

soft market space
based on local indicators



Junction I Proposed Market Space

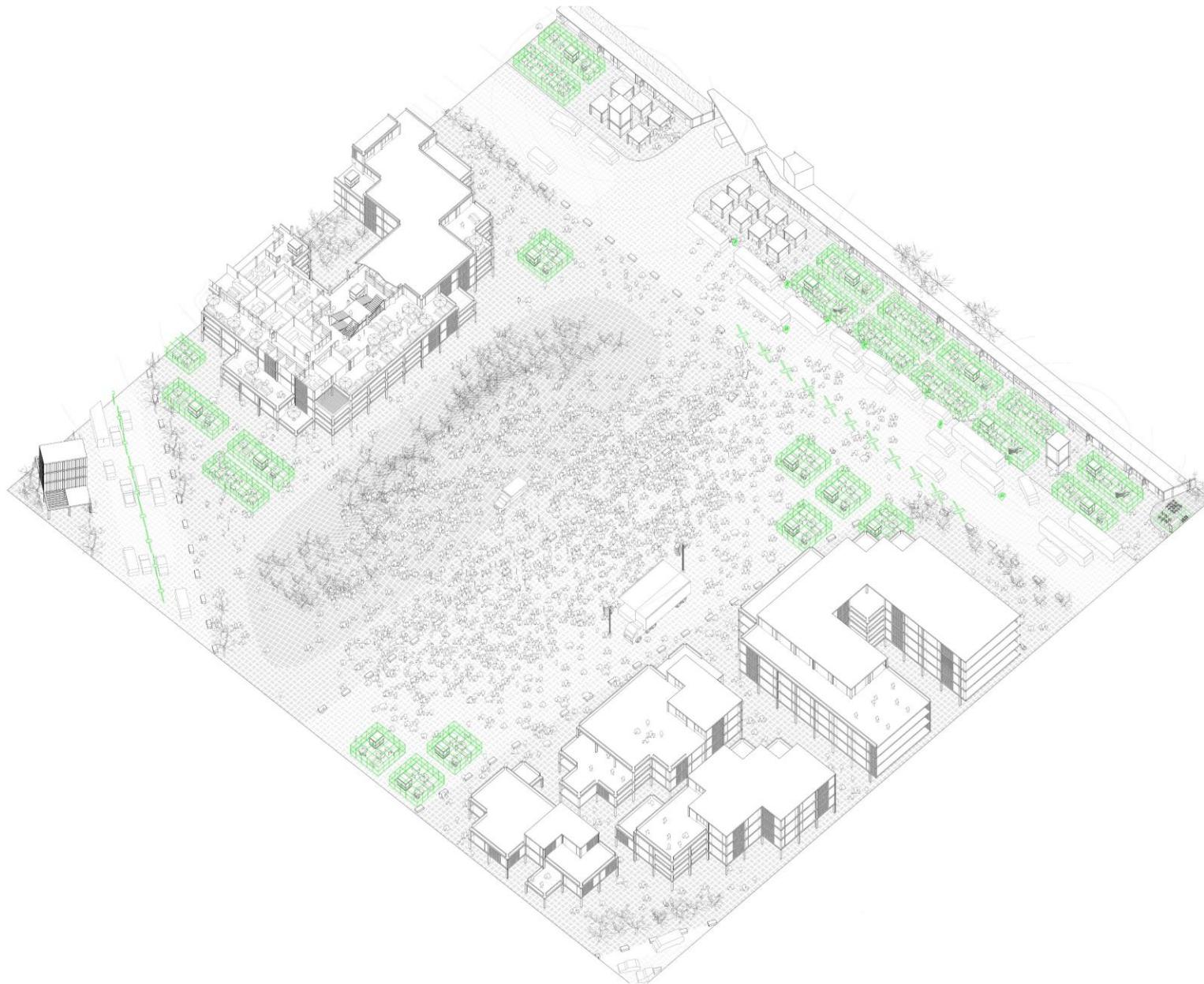
JUNCTION | MASTER PLAN



JUNCTION | USAGE SCENARIO BUS TERMINAL



JUNCTION | USAGE SCENARIO RALLY



MEKINA | STATUS QUO



Mekina | Aerial Photo

MEKINA | STATUS QUO

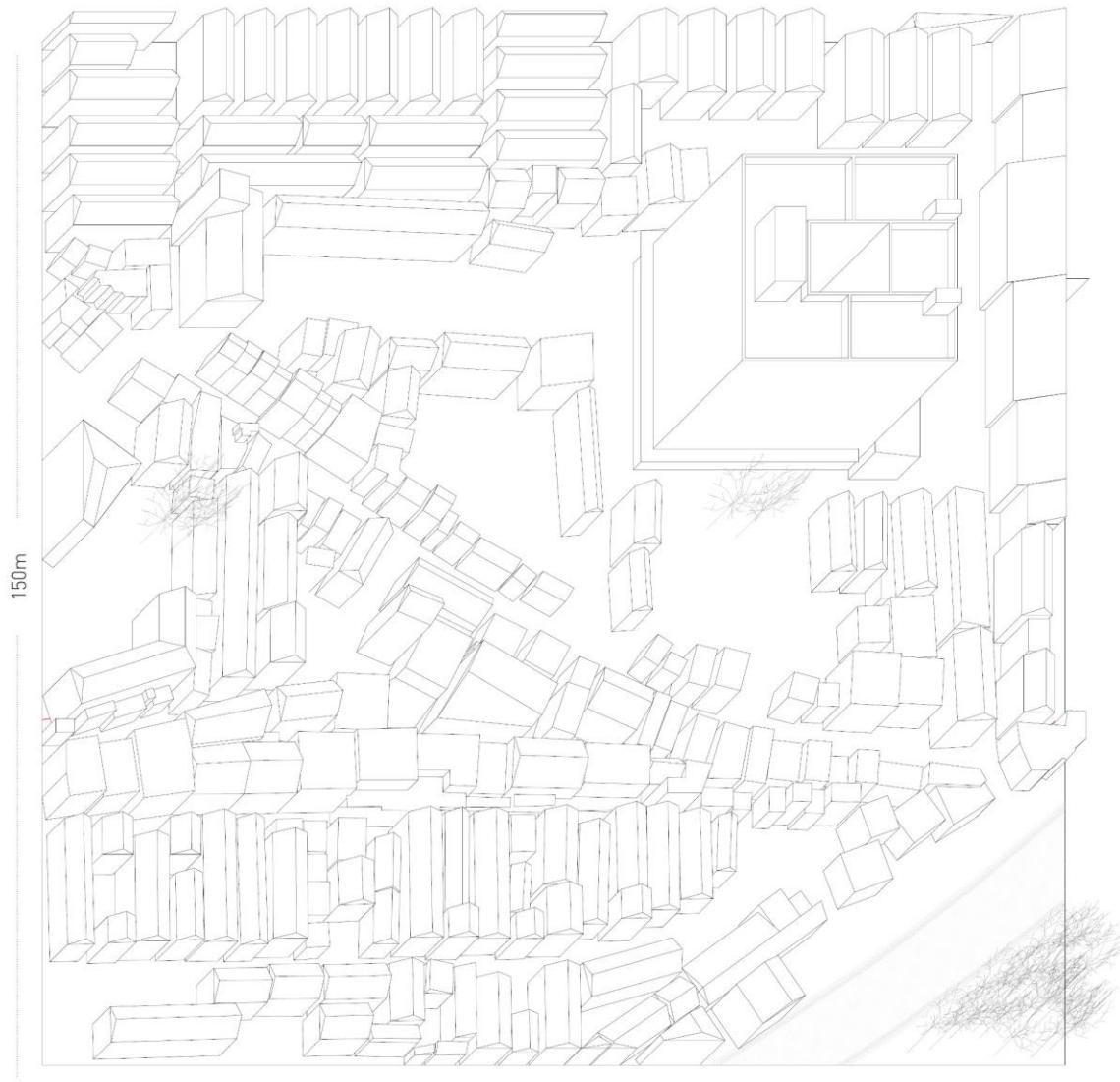


Mekina | View Towards Kibera Drive



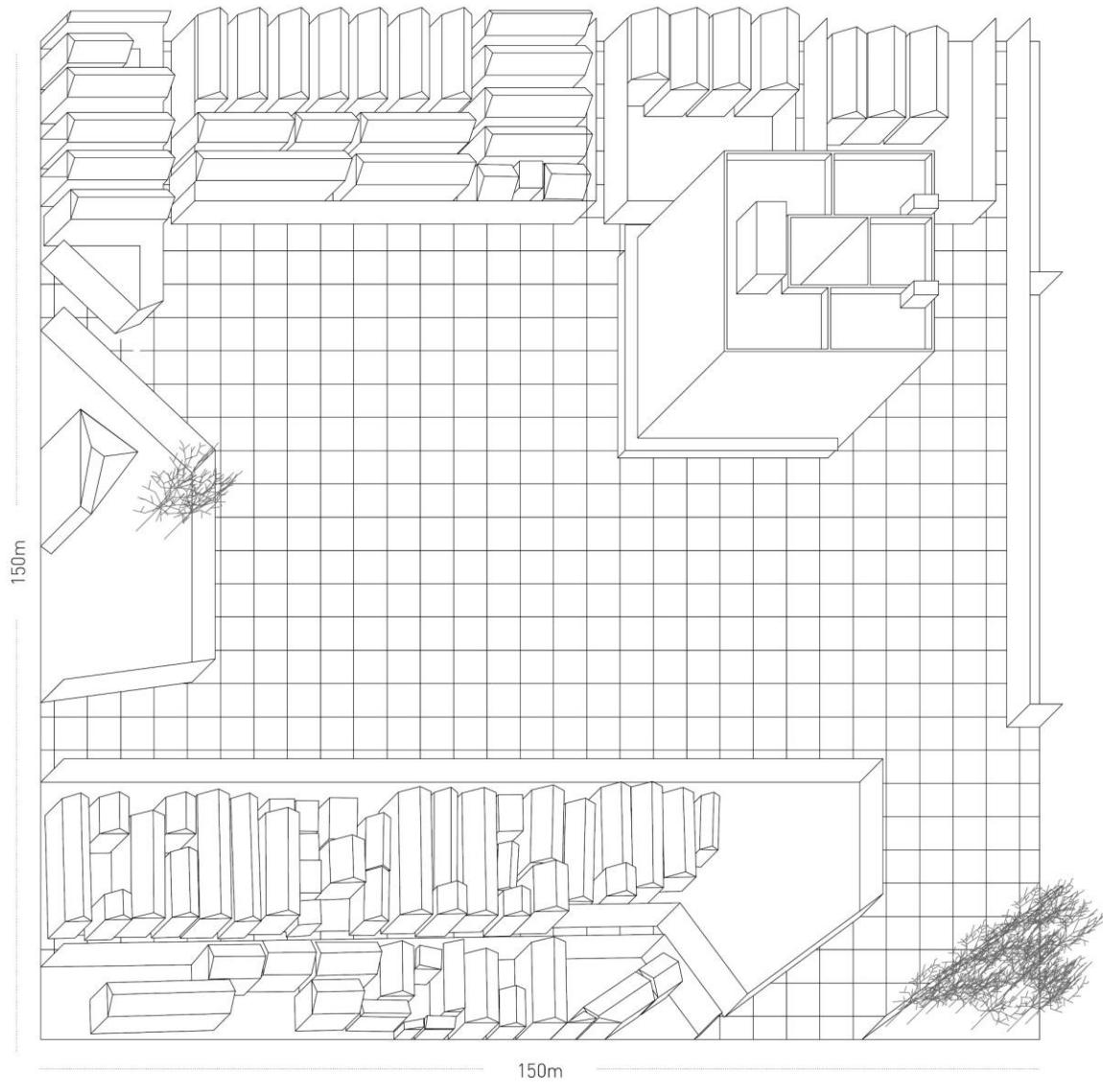
Mekina | At Toi Market

MEKINA | STATUS QUO

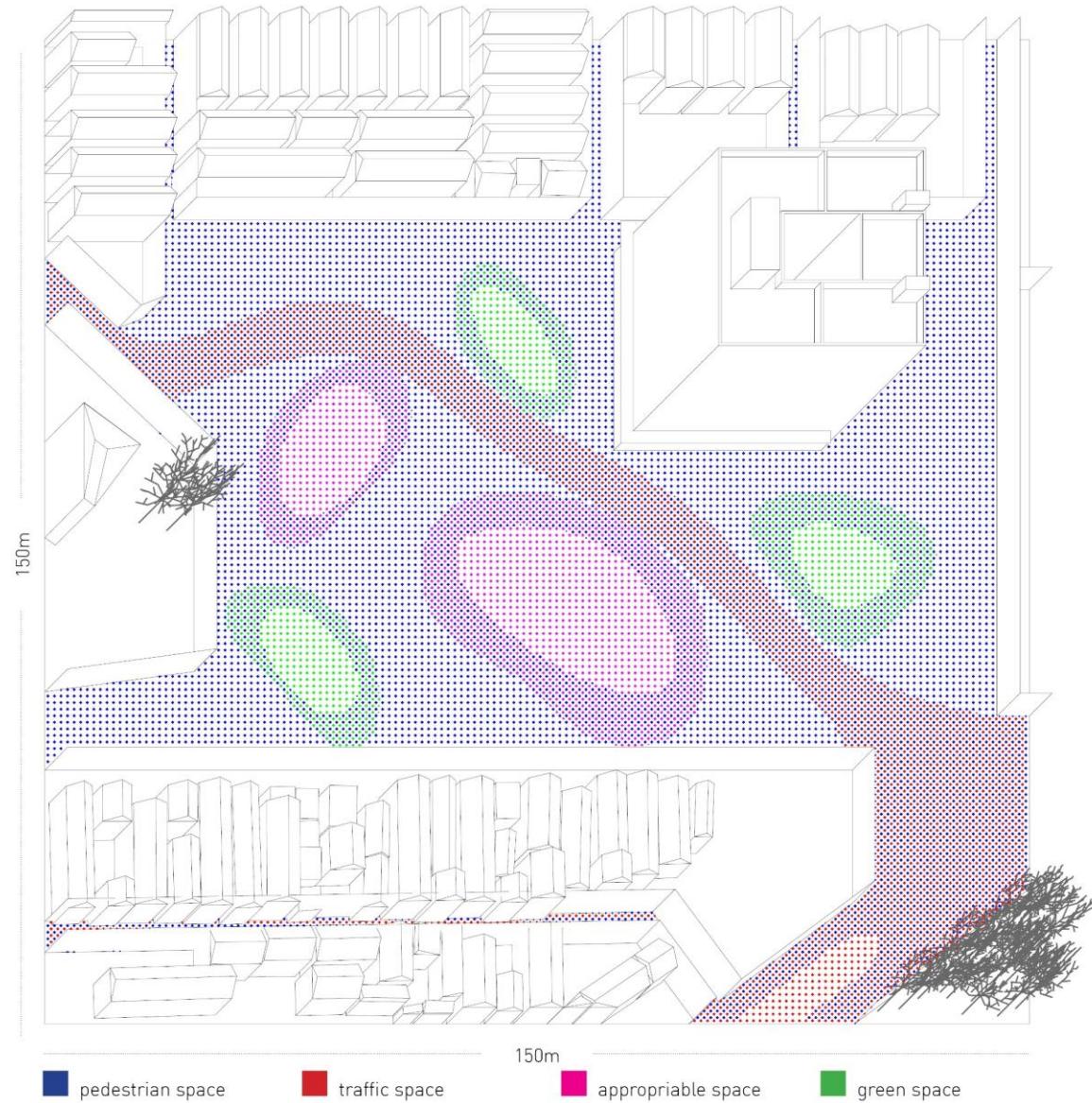


Mekina I Status Quo

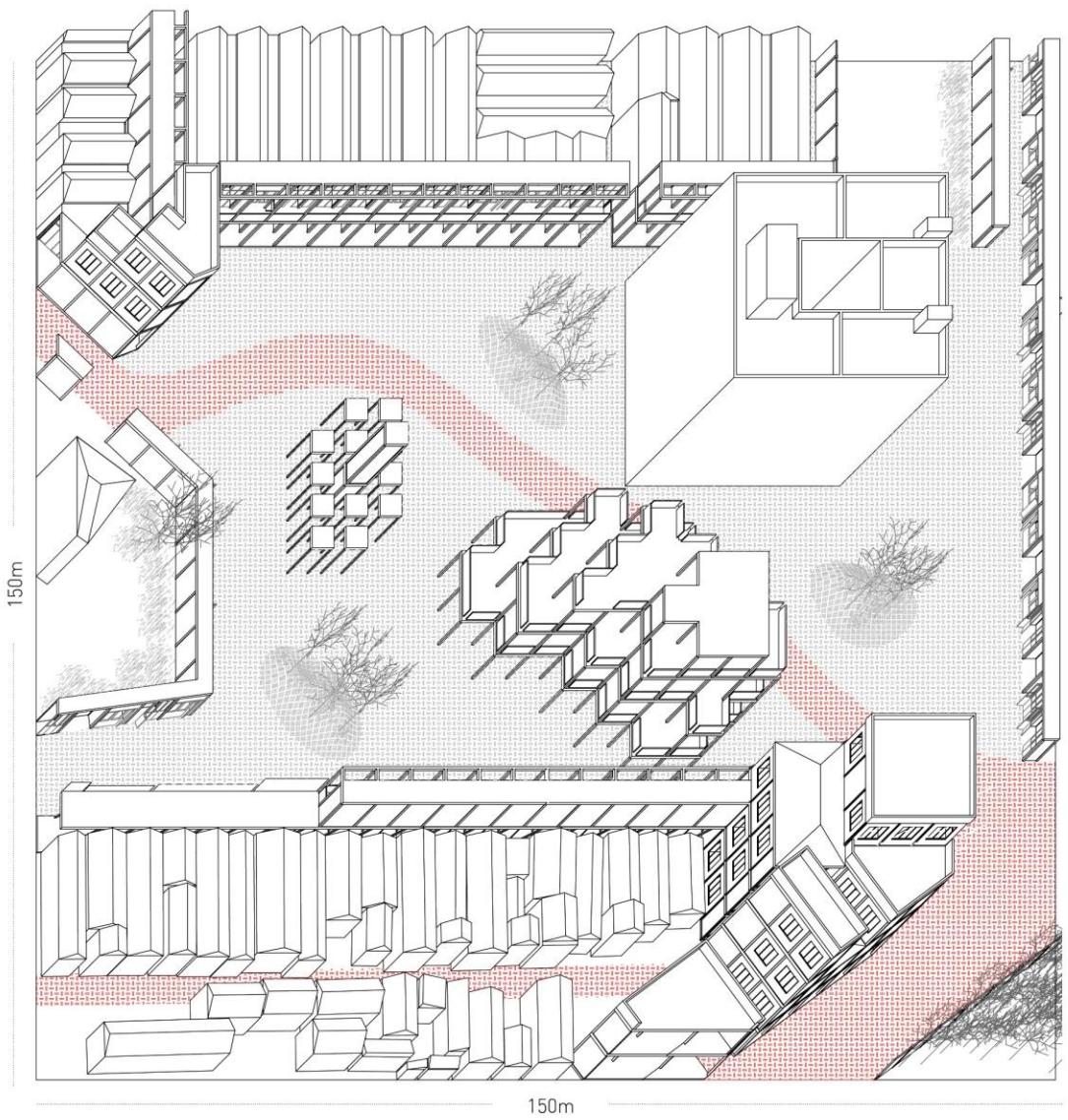
MEKINA | TABULA RASA



MEKINA | DYNAMIC ZONING



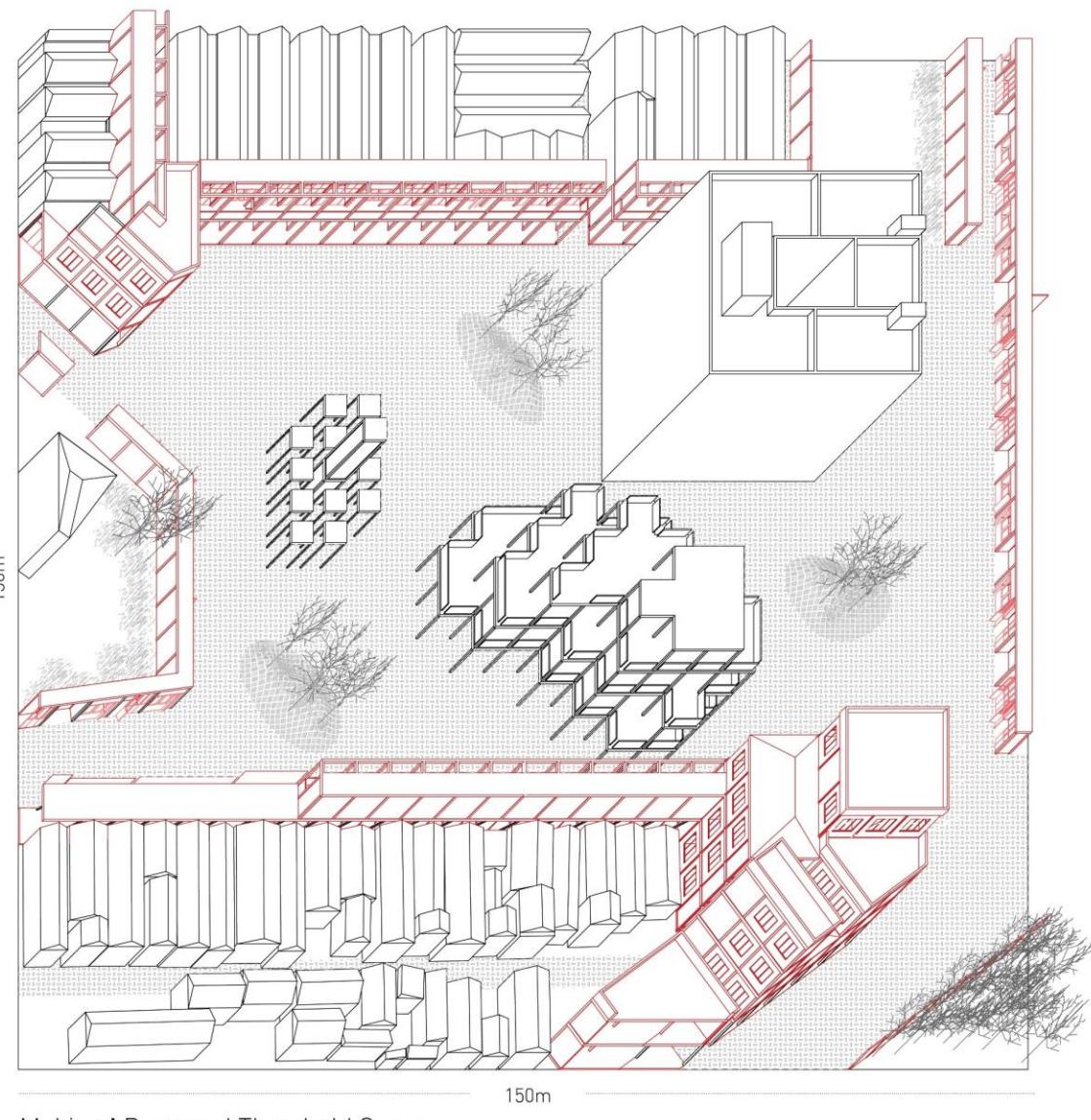
MEKINA | HARD AND SOFT SPACE



Mekina | Proposed Traffic Space

base image retrieved from Ramani Geosystems

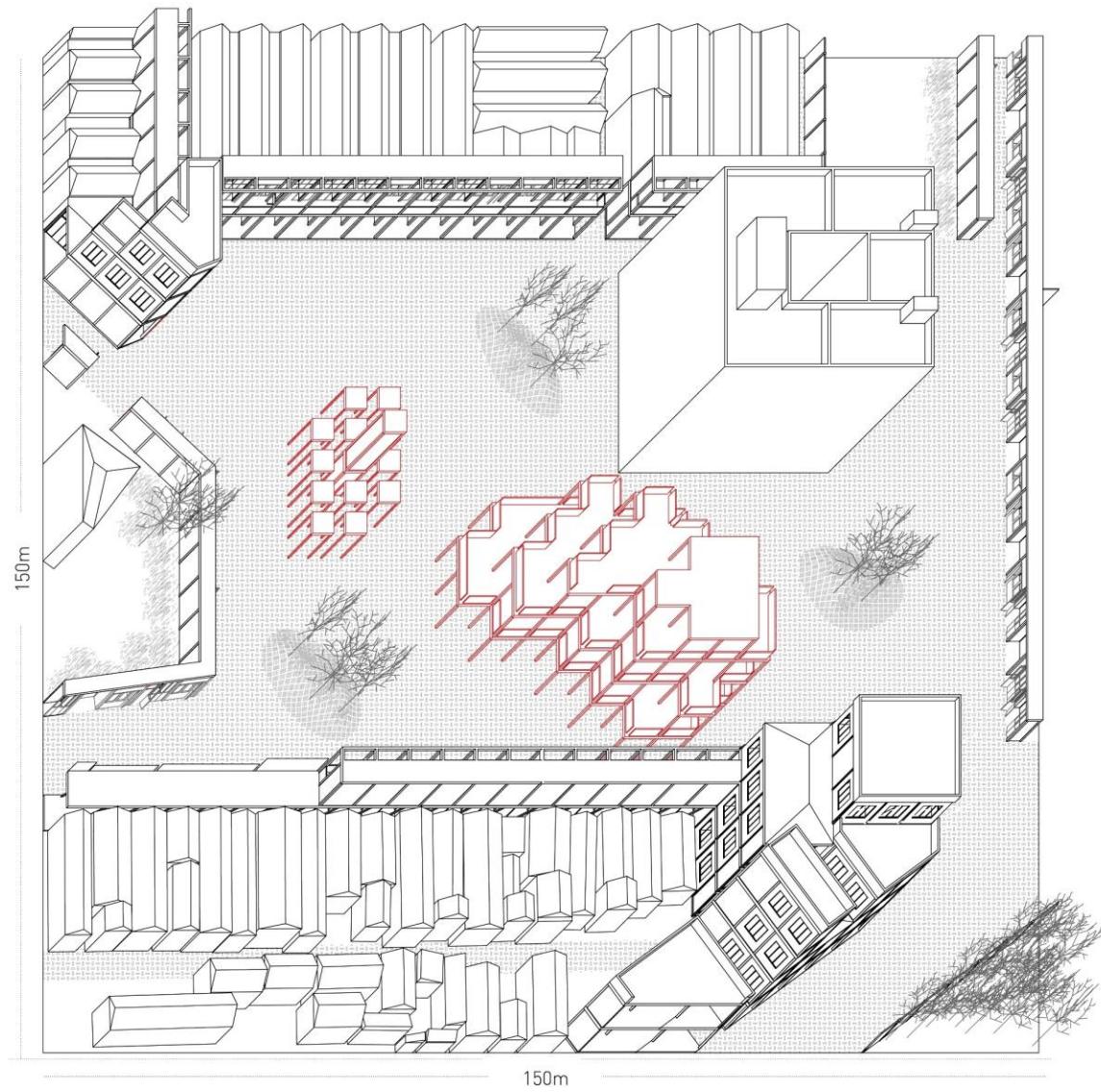
MEKINA | HARD AND SOFT SPACE



Mekina | Proposed Threshold Space

base image retrieved from Ramani Geosystems

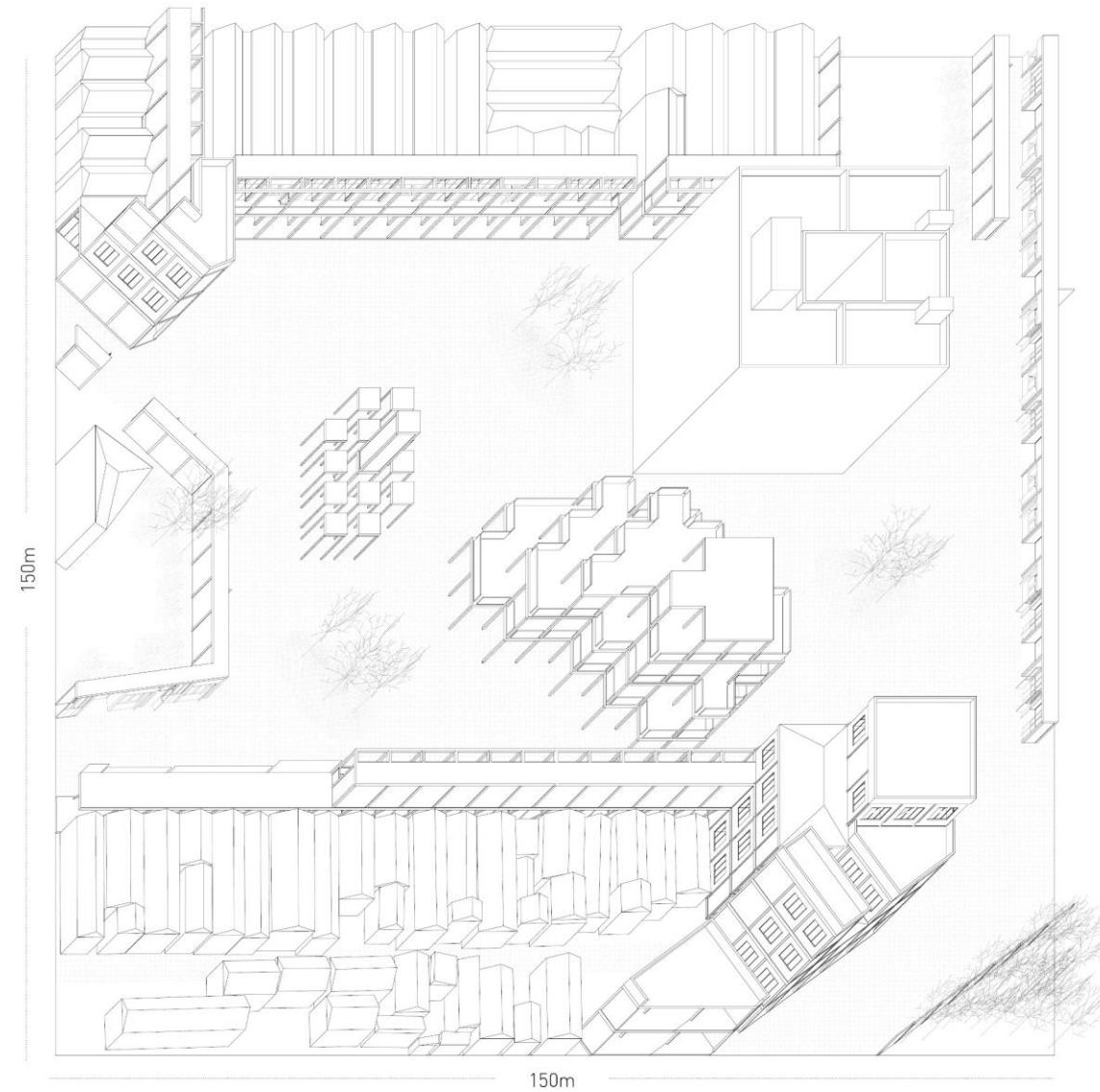
MEKINA | HARD AND SOFT SPACE



Mekina | Proposed Market Space

base image retrieved from Ramani Geosystems

MEKINA | MASTER PLAN



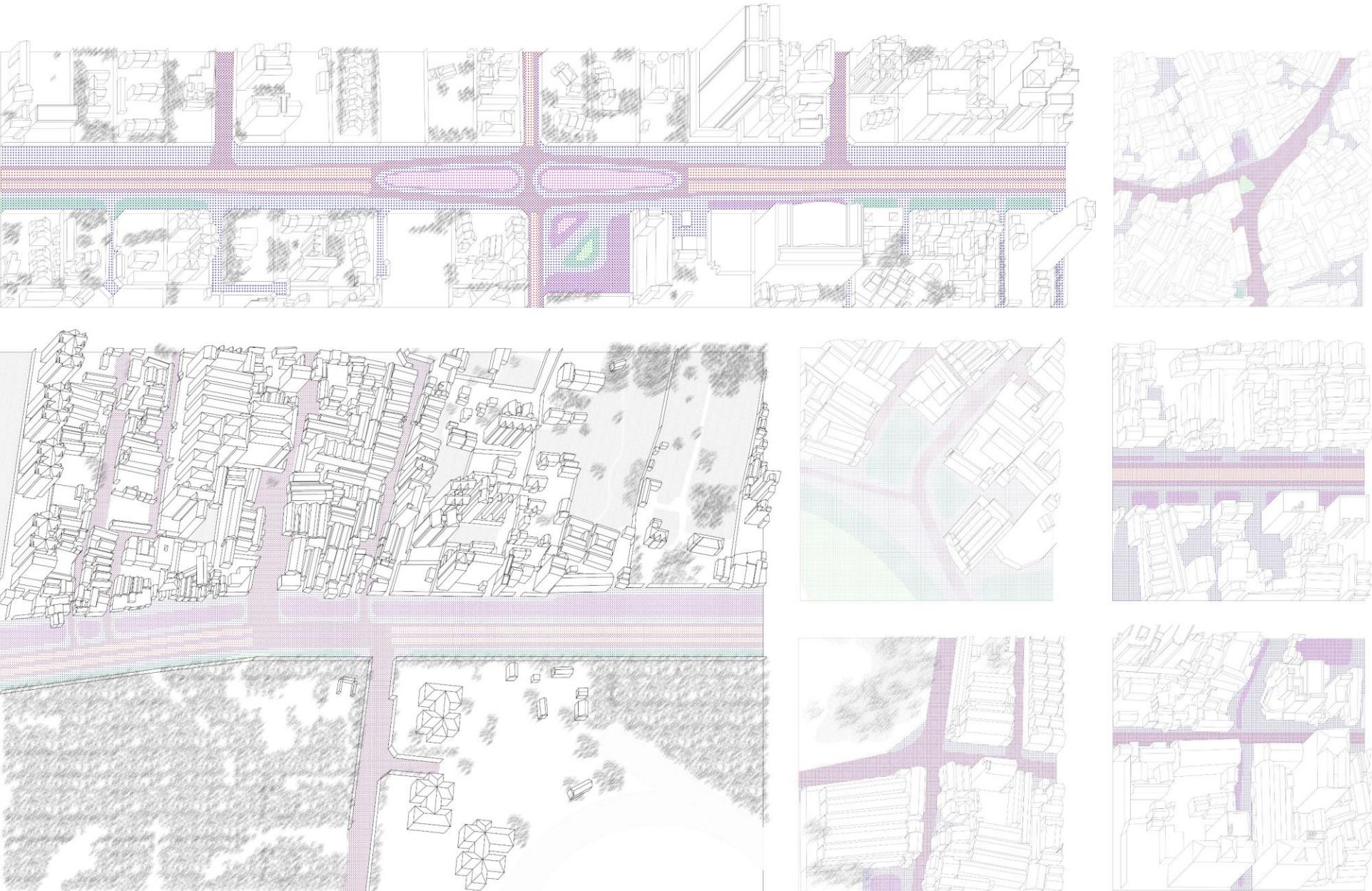
MEKINA | USAGE SCENARIO GARAGE



MEKINA | USAGE SCENARIO MARKET



DESIGNING NGONG ROAD | TRANSFERABILITY OF THE APPROACH



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FROM PLAN TO SPACE
ARRIVING TO A NEW NAIROBI

CHARACTER | PUBLIC SPACE AS AN ENGINEER'S ENDEAVOUR



CHARACTER | A MATERIAL LANGAGE FOR NAIROBI



A | GRASS PAVERS



B | RED IN-SITU CONCRETE

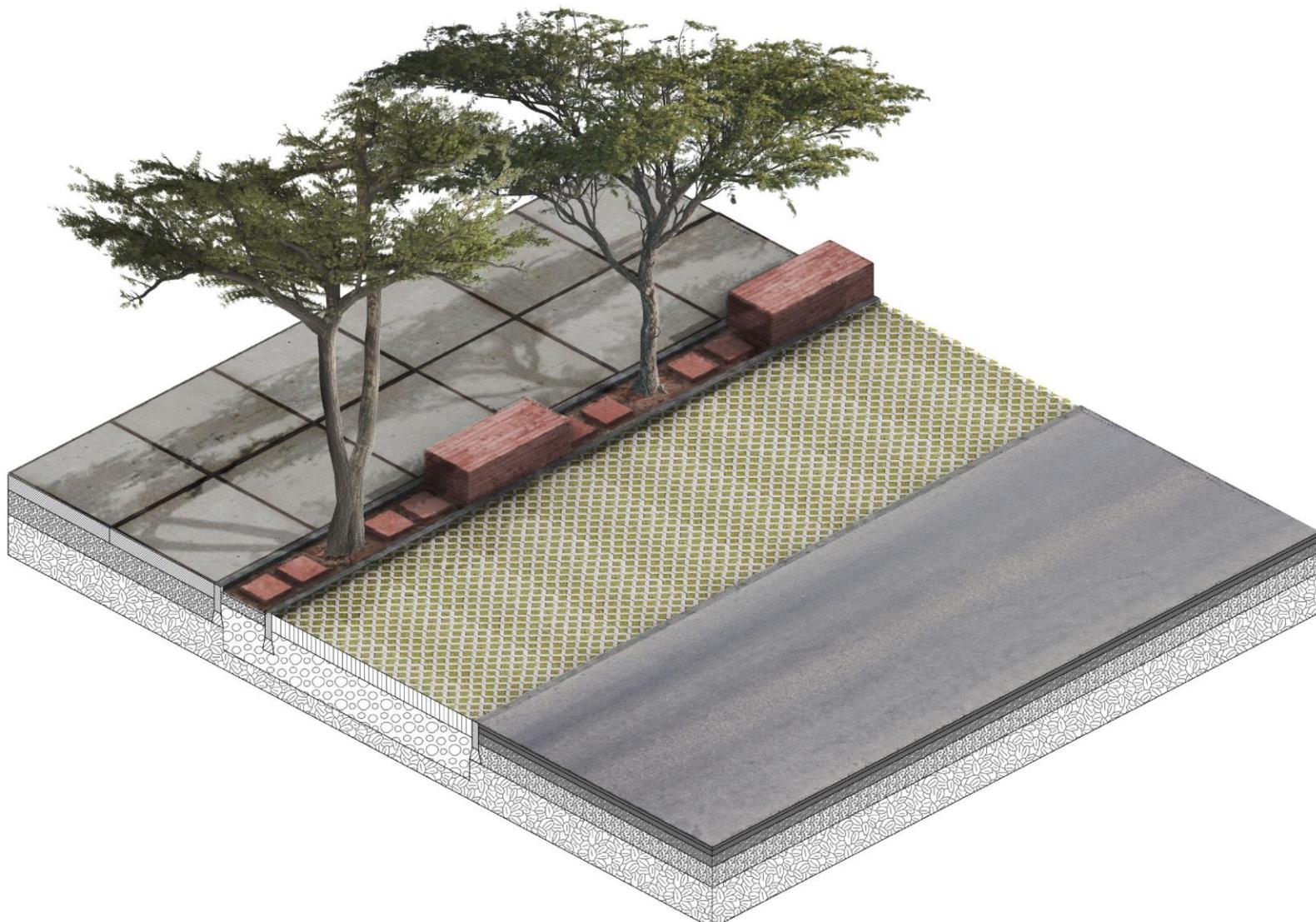


C | STELCON SLAB



D | CONCRETE BLOCKS

MATERIALITY | TRAFFIC SPACE

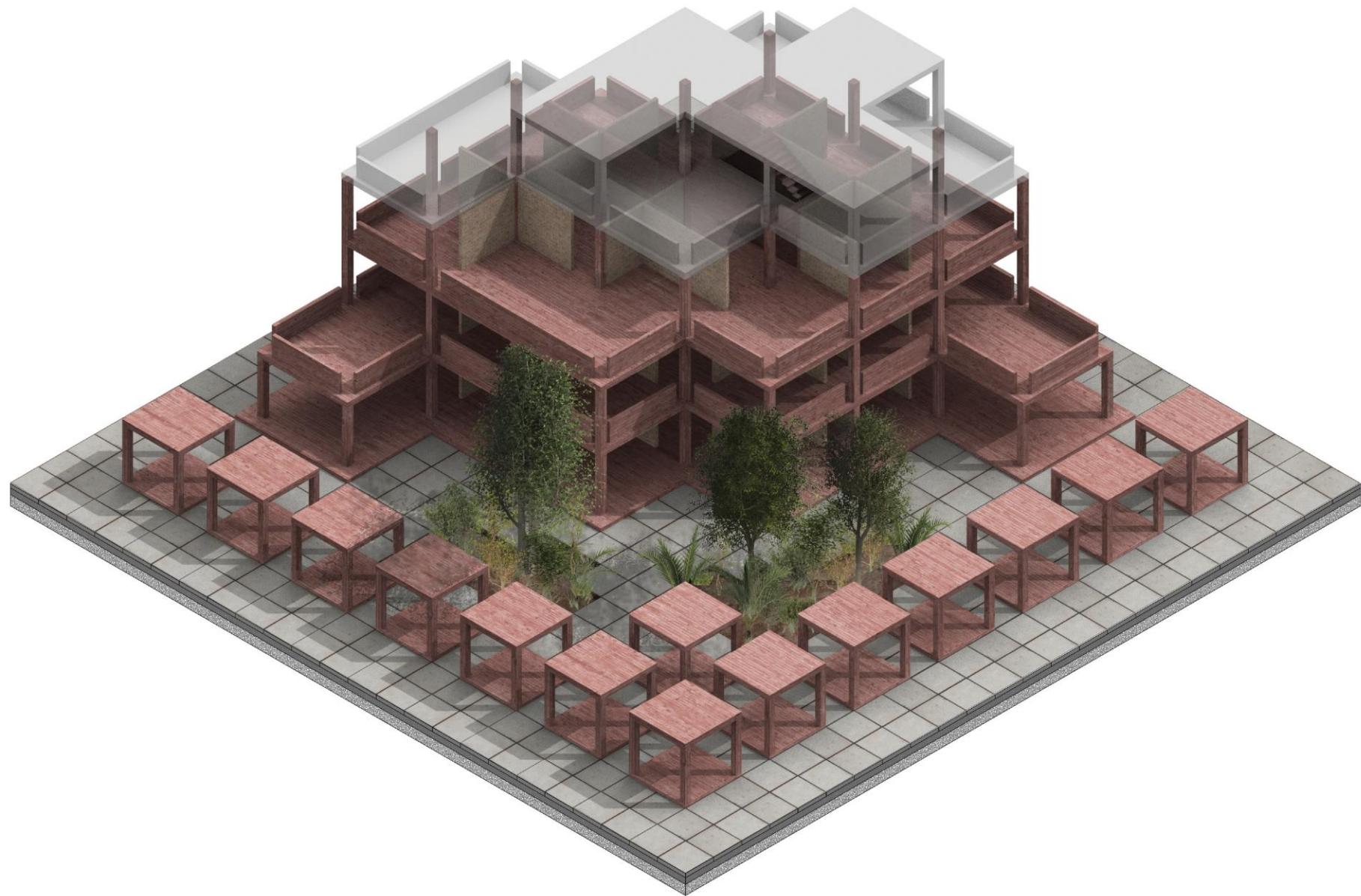


1m

MATERIALITY | THRESHOLD SPACE



MATERIALITY | MARKET SPACE



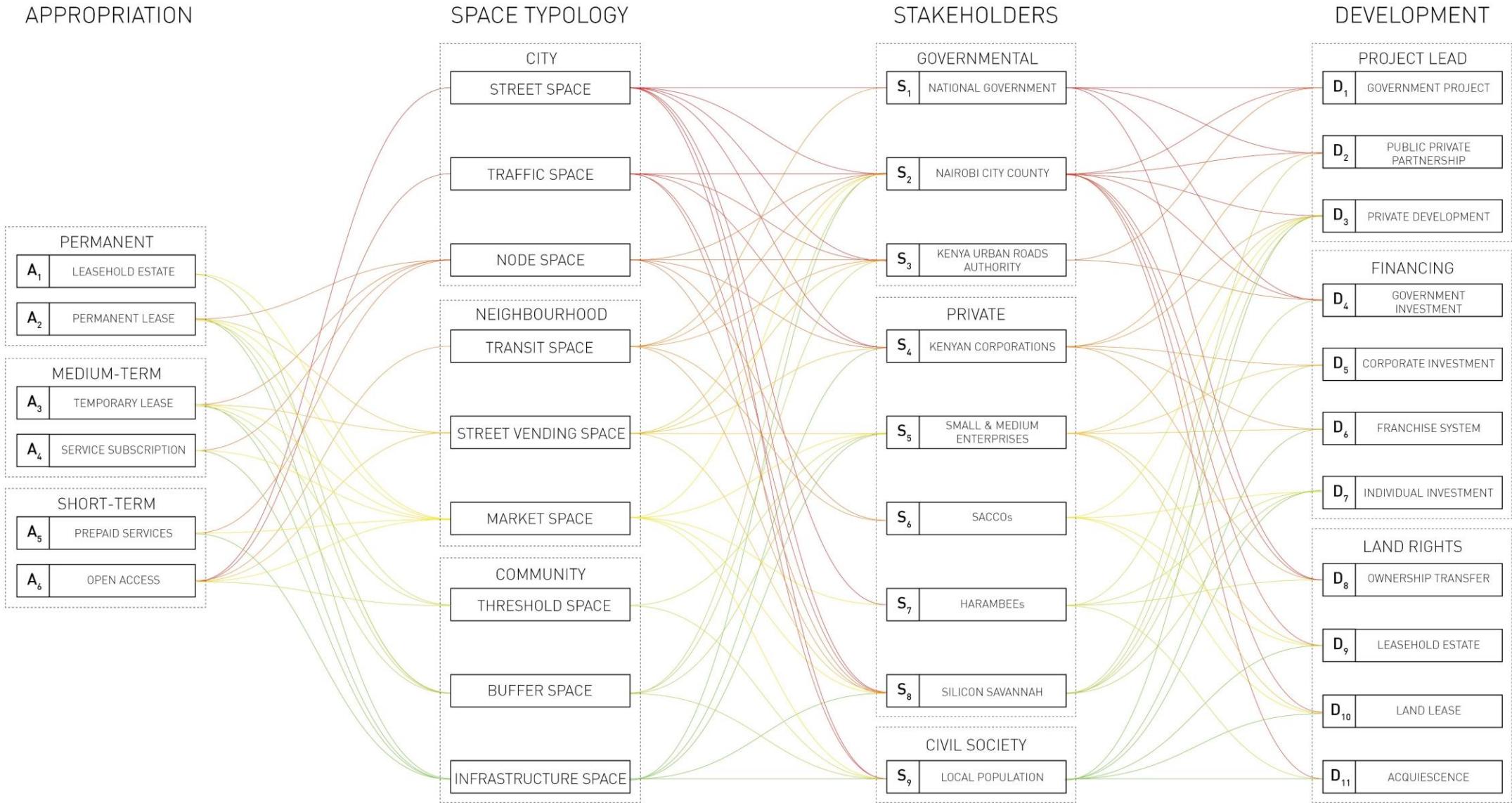
3m

THE NEW NGOG ROAD | IDEALISED IMPRESSION



the New Ngong Road | ideal perspective of physical space towards Adams with appropriation ghosted

IMPLEMENTATION | THE COMPLEXITY OF KENYAN POLITICS



THE NEW NGOG ROAD | REALISTIC IMPRESSION

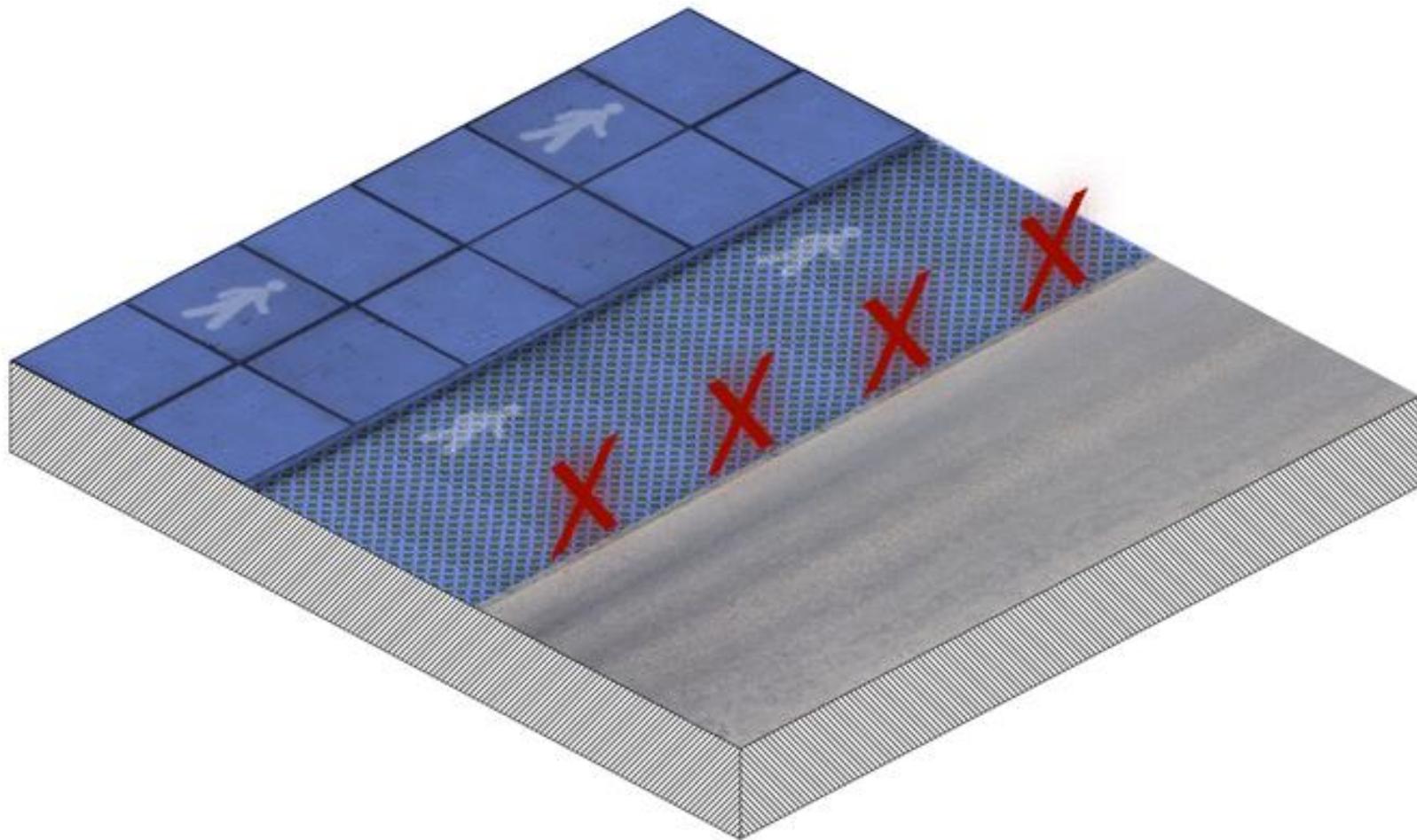


the New Ngong Road | realistic perspective of physical space towards Adams preconcieving failure during implementation

THE NEW NGOG ROAD | AUGMENTED IMPRESSION

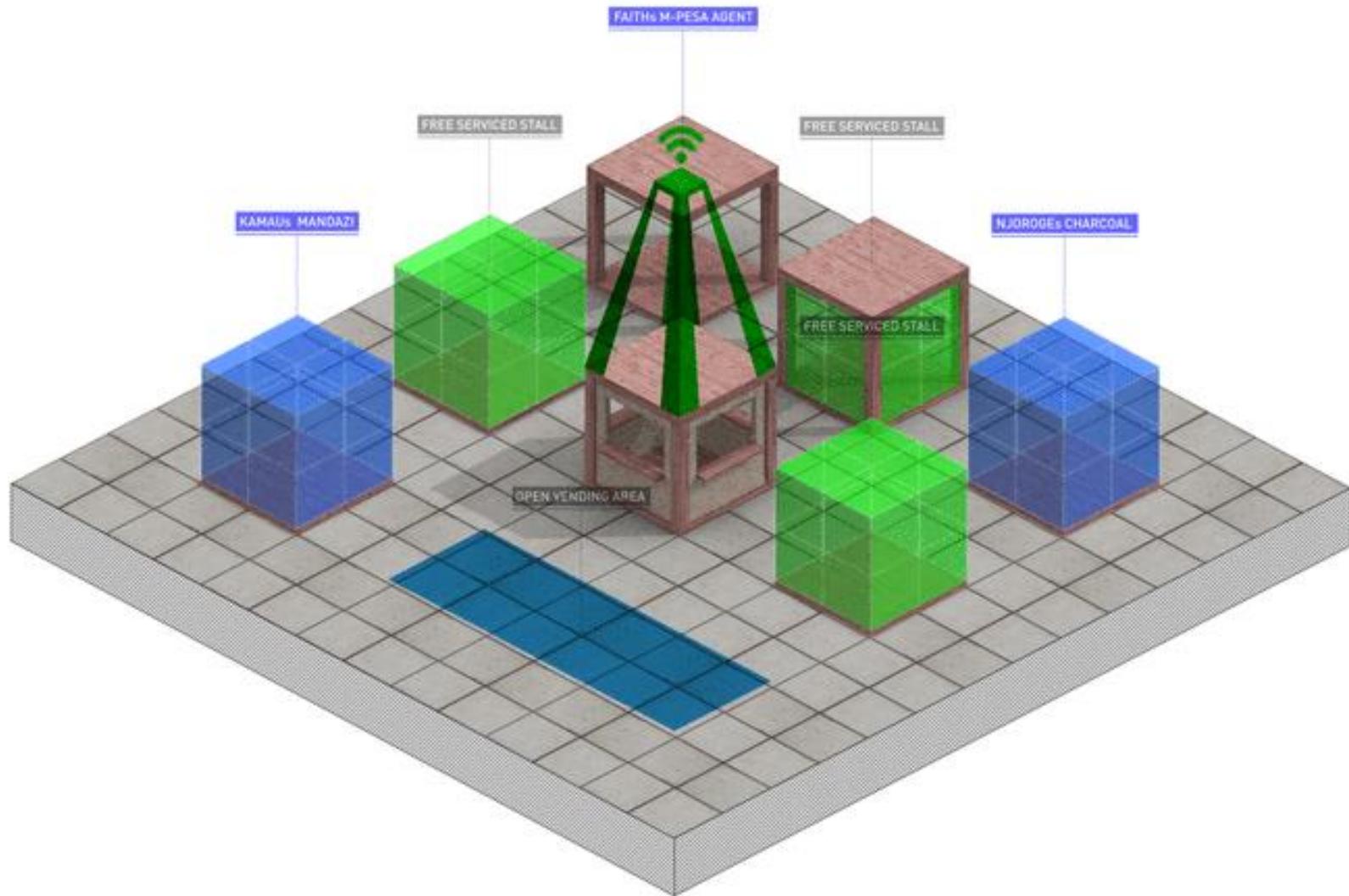


the New Ngong Road | using augmented reality as a prosthesis to the exiting design



1m

DIGITAL SPACE | MARK

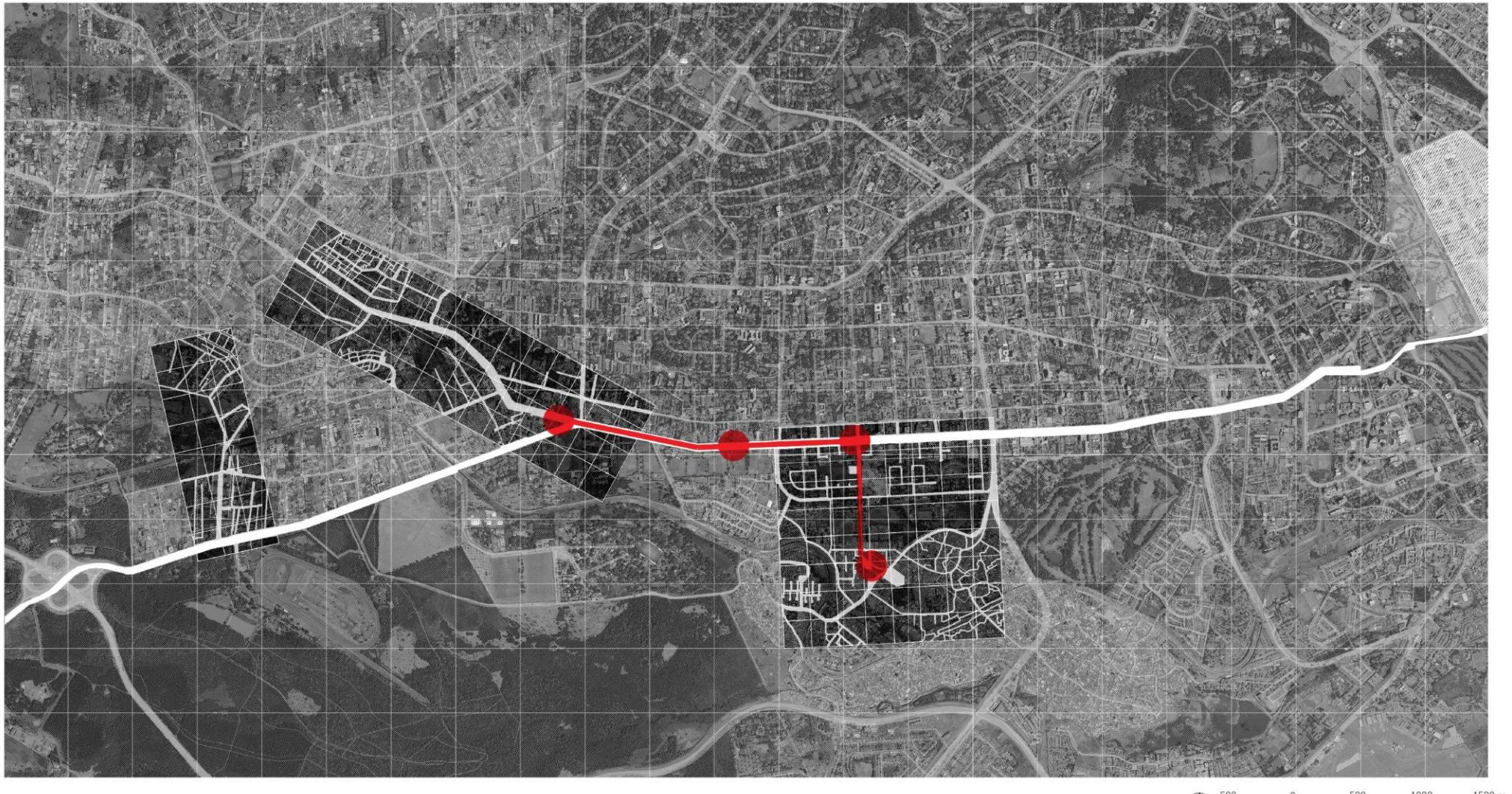


1m

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ARRIVING TO A NEW NAIROBI

VISION | ARRIVING TO A NEW NAIROBI



Case Sites | Junction | Mekina

500 0 500 1000 1500 m

AT THE BUS TERMINAL | IMPRESSION



AT THE BUS TERMINAL | DIGITAL SPACE



AT THE BUS TERMINAL | PHYSICAL SPACE



IN THE MATATU | IMPRESSION



IN THE MATATU | DIGITAL SPACE



IN THE MATATU | PHYSICAL SPACE



ON THE STREET | IMPRESSION



ON THE STREET | DIGITAL SPACE



FOLLOWING

ON THE STREET | PHYSICAL SPACE



ON THE MARKET | IMPRESSION



ON THE MARKET | DIGITAL SPACE



ON THE MARKET | PHYSICAL SPACE



ROOM FOR QUESTIONS