



Arthur Adeya + Franklin Mutwiri + Shirley Chebet + Louis Chiteri





hola



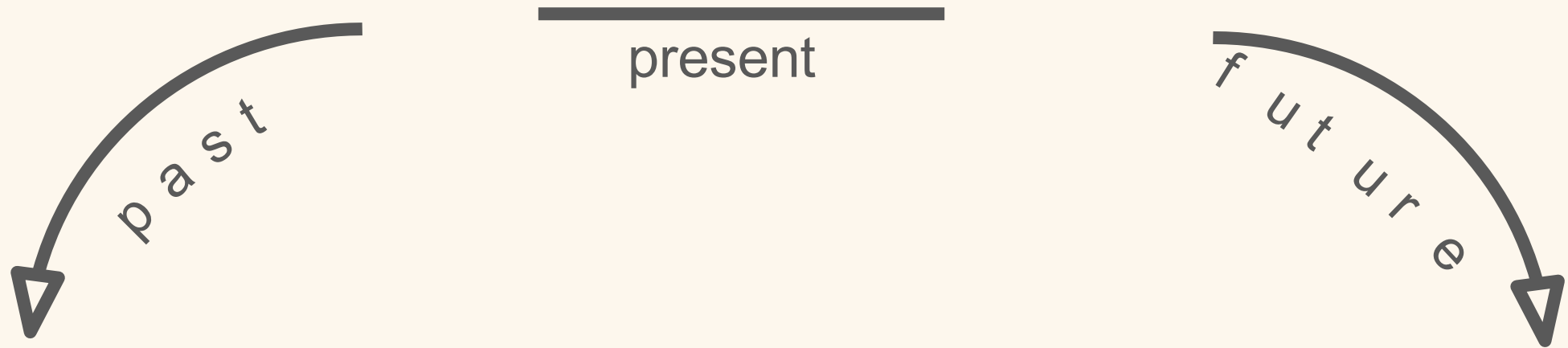
hej



habari



hello

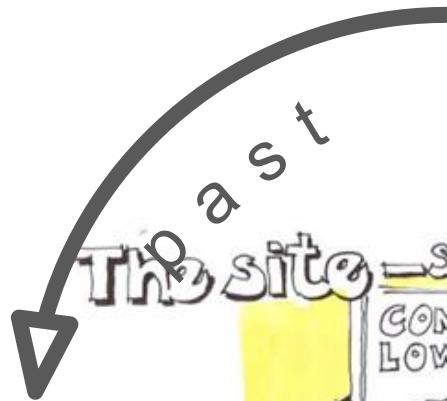


past



Picture Composition: Transport in my Country

ARTHUR M. O. ADEYI
002



The site

SKETCH ANALYSIS

CIRCULATION, CLIMATE, MODULATE NEIGHBOURHOOD
WITH EMPHASIS TO THE LOW-COST, LOW INCOME

COMING SOON!
LOW-INCOME HOUSING

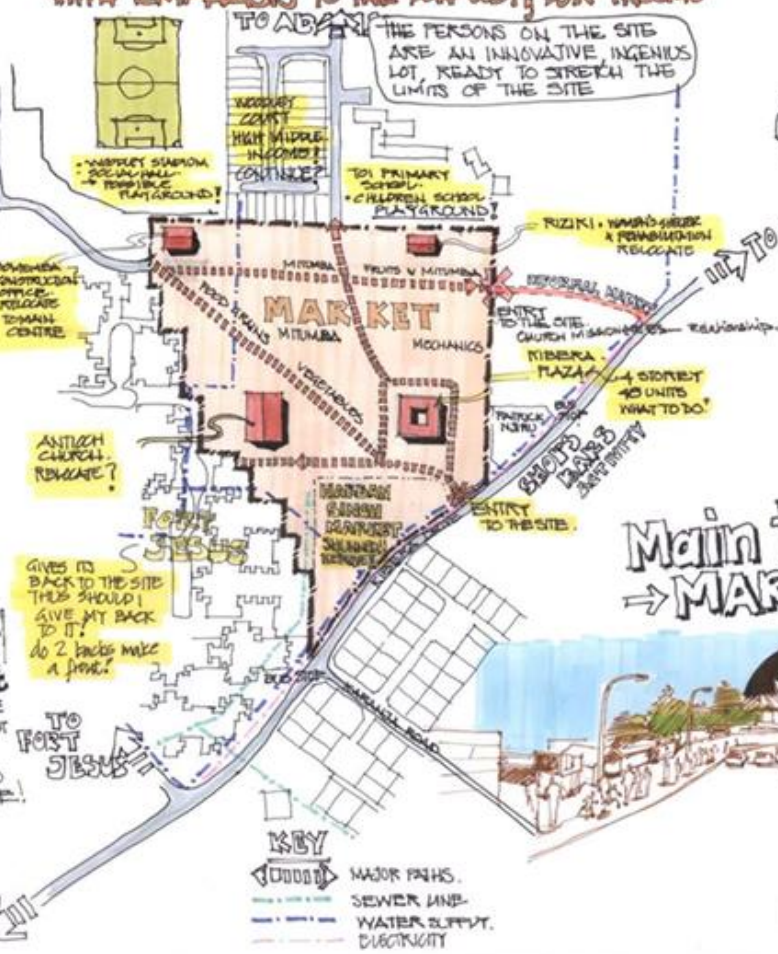


"BEHOLD FROM THE PEOPLE WHO BROUGHT US LOW-INCOME!"

"In order to end to this housing Shortage there is only one means: to abolish altogether the exploitation and oppression of the working class by the ruling class"



The market
THESE ARE FIRST AND FOREMOST TRADERS. THEY BARGAIN FOR A PROFIT. THEY DO NOT COMPROMISE!



CLIMATE
MODERATE - NO EXTREMES
ANNUAL MEAN MAXIMUM: 25.2°C
ANNUAL MEAN MINIMUM: 15.6°C
RAINFALL: 2,870mm
WETTEST MONTH: FEBRUARY 400mm
DRYEST MONTH: JULY
VEGETATION
- STAPLES
- THINGS TO GROW TREES
- KAI APPLE SHRUBS - TREES

Main theme
→ MARKET !!

RELATIONSHIPS
- TO A VERY BUSY (PEDESTRIAN) KIBERA DRIVE. Most traffic on the other side. Must pull it in.
- GET SPECIFIC - WORKSHOPS, BUREAUS ETC., FOR LIGHT TRADING.
- TRAFFIC CORRIDOR TO ADAMS ARCADE
- TADA → THE MAIN REASON for the market!

The street is better than this.

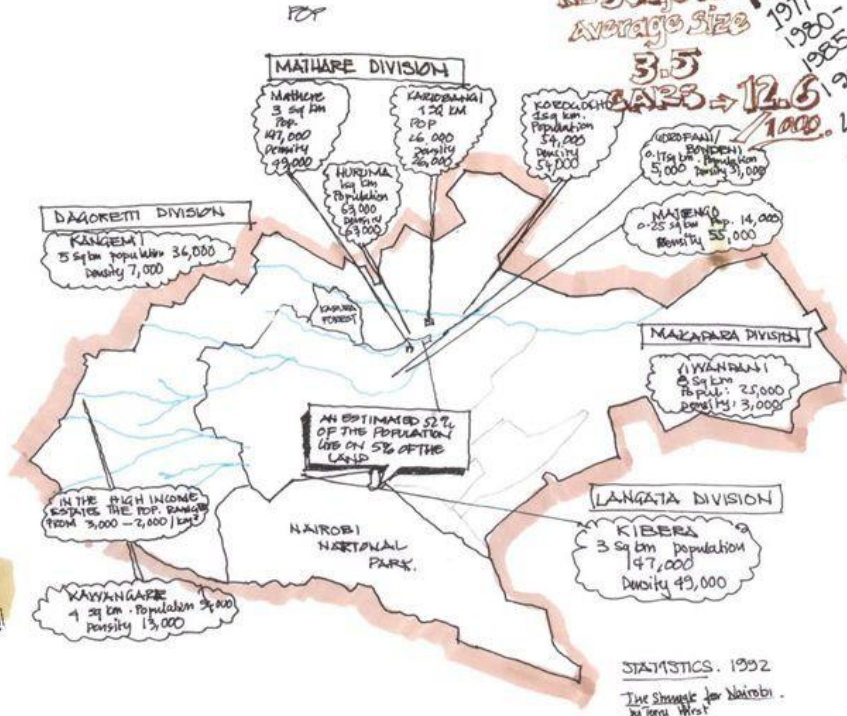
past

▼ The NAIROBI we did ~~not~~ want....

Nairobi Statistics!
Households: 2382,869
Average Size 3.5
Population:
 1971 - 677,000
 1980 - 863,000
 1985 - 1,128,000
 1995 - 2,079,000
 2000 - 2,730,000
 2010 - 4,363,000
GROWTH RATE
 1971-80: 5.11%
 1980-85: 6.11%
 1985-95: 5.16%
 1995-2000: 5.16%
 2000-10: 3.29%
 (COMPARE NAIROBI)

OVER 50% STAY IN INFORMAL SETTLEMENTS
OCCUPYING ONLY 5.8% OF THE AREA!

in densities of up to **63,000 per km²**



STATISTICS. 1992
 The Struggle for Nairobi
 by Tony West

KENYA GDP

Year	Population	Agric Industry	GNP
1975	1,775,000	21%	1975
1995	7,817,000	22%	1995
2005	32,616,000	22%	2005
URBAN GROWTH RATE			
1975	13%		
1995	28%		
2005	51%		
RURAL GROWTH RATE			
1975	2.5%		
1995	6.8%		
2005	2.5%		

52% live in absolute poverty!

ACCESS TO SAFE DRINKING

WATER
 URBAN = 67%
 RURAL = 49%
SANITATION
 URBAN = 63%
 RURAL = 78%

EDUCATION

PRIMARY 95%
 SECONDARY 27%

HEALTH

77% have access to

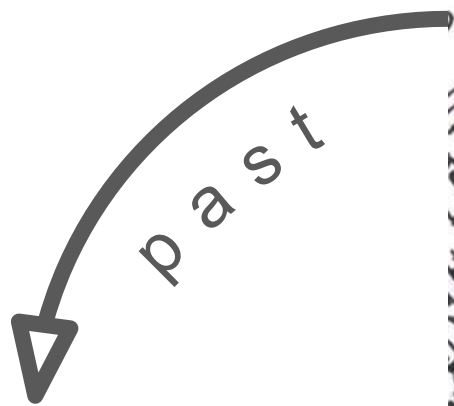


AUSTIN EKENBERG
 HENRY BARLOW



- crumbling infrastructure!
- poverty
- corruption!
- transport hikes
- weak leadership!
- strikes!
- garbage!
- grabbing!
- disease!
- water
- sanitation
- ill-health

1 THE CITY



FORMAL OCCUPYING

KENYA

URBAN population

1975	1995	2025
1,175,000	7,817,000	32,616,000
13%	28%	51%

URBAN GROWTH RATE
90-95 = 6.8%
RURAL = 2.5%

GNP

1975	1990	1995
250	380	270

AGRIC INDUSTRY

1975	1990	1995
21%	22%	21%

52% live in absolute poverty!

ACCESS TO SAFE DRINKING WATER:

- URBAN = 67%
- RURAL = 49%

SANITATION

- URBAN = 63.9%
- RURAL = 78.6%

EDUCATION

- PRIMARY 95%
- SECONDARY 21%

HEALTH

- 77% have access to

but what quality

I refuse to take your brotherly hand!

**AUSTIN BURENDA
HENRY BARLOW**



PERSPECTIVE STUDIES - Type 3 street

Past

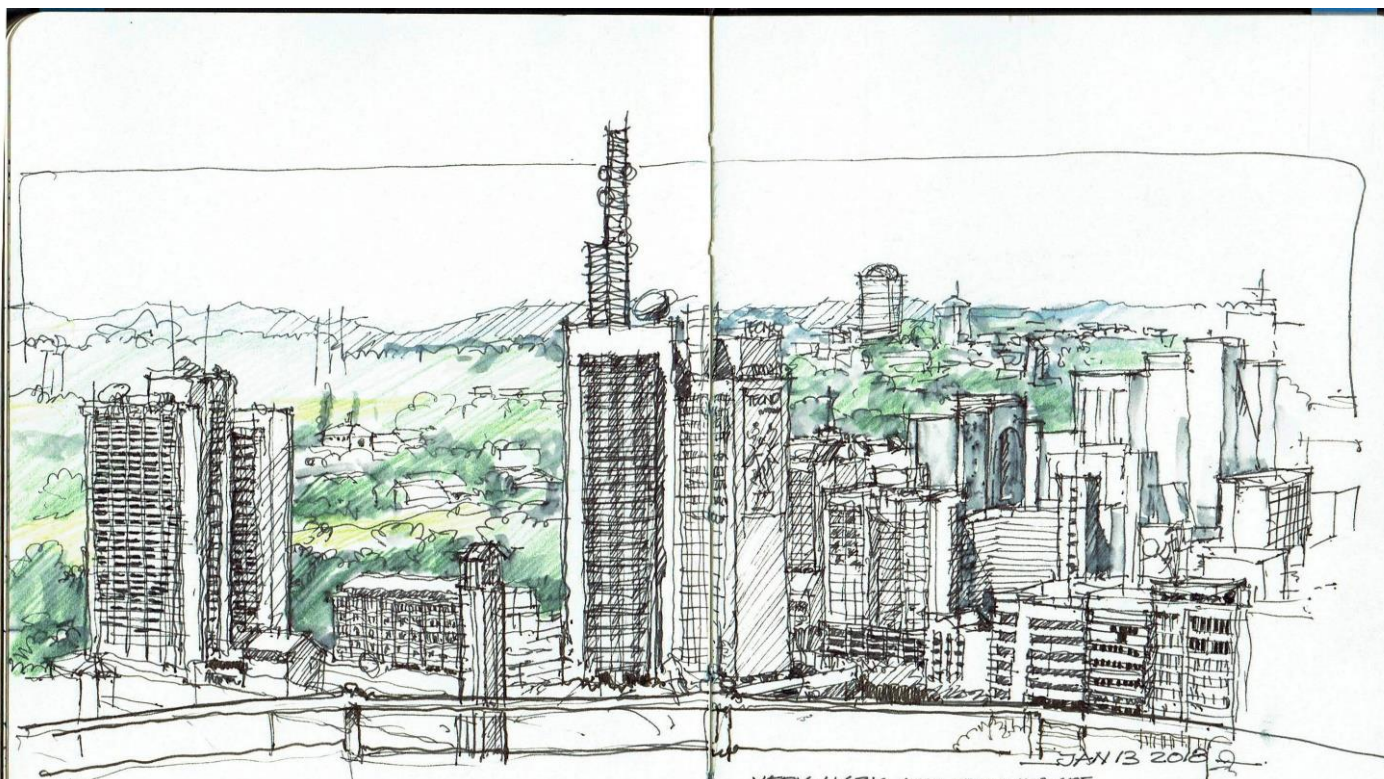


IS THIS THE PARLIAMENT ANNEX.
THIS BLOCKED THE VIEW I HOPED TO
GET, BUT, COST LA VIE.

NAIROBI, SOME OF WINTERHILL AND COMMUNITY
HILL FROM THE TOP OF KICC. INTERESTING TO
DRAW THE NAIROBI SKYLINE WITHOUT KICC
ITSELF.

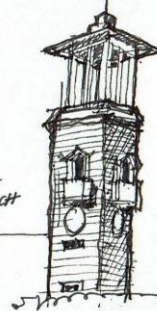
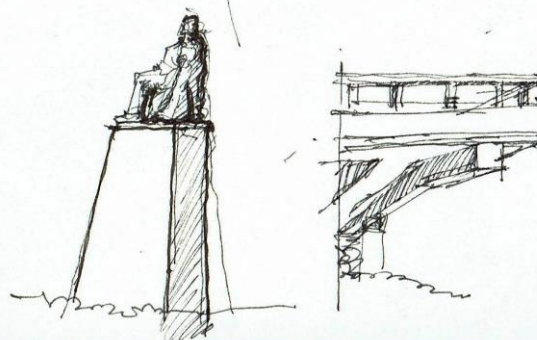
12th DEC 2017.

142



VERY HAZY DAY. THE HILLS ARE
SOMEWHERE. BUT SKETCHING THIS
CITY IS GOING TO BECOME AN
OBSESSION! THE ACTUAL ACT IS GREAT
FUN, IT IS QUIET AT THE TOP OF KICC.
EVEN THE TOURIST GATHER DOES NOT
DETER FROM THE FEELING OF BEING
ON TOP OF THE WORLD. IT IS PEACE-
FUL. UNTIL YOU NEED TO LEAVE. I FEEL
THERE IS SO MUCH UNRETRACTED SO MUCH
TO LEARN.

JAN 13 2018



150

160

Past

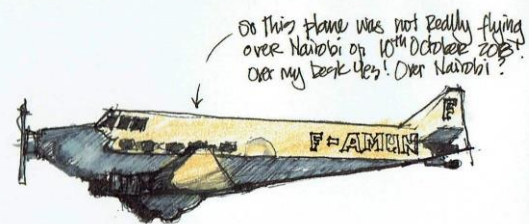


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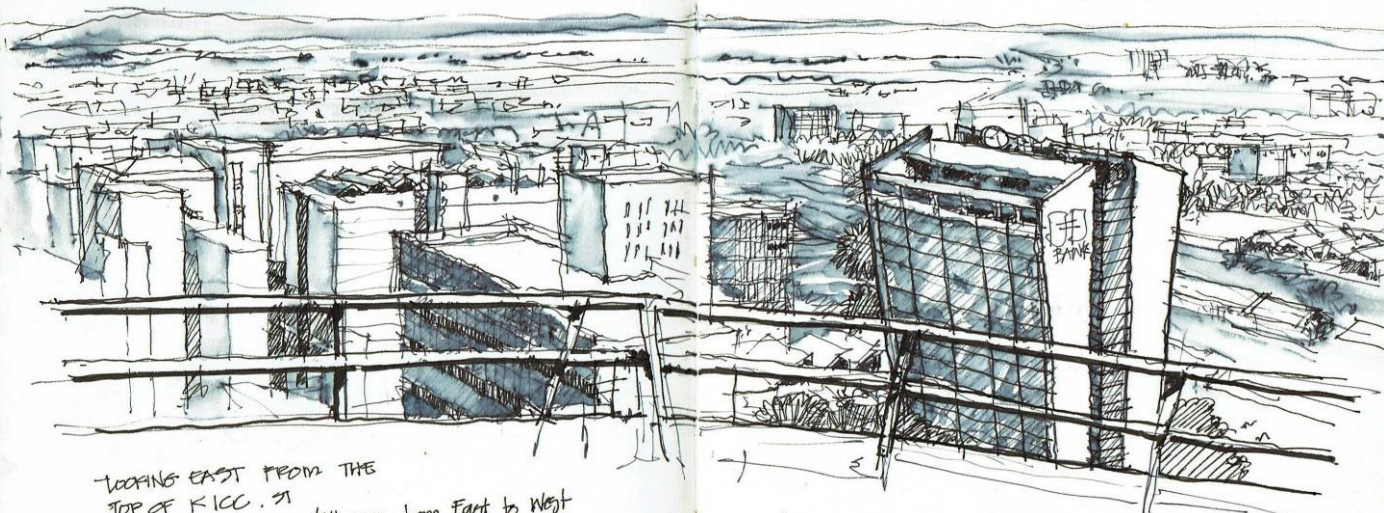
NAIROBI, SOME OF UPPERHILL AND COMMUNITY
HILL FROM THE TOP OF KICC. INTERESTING TO
DRAW THE NAIROBI SKYLINE WITHOUT KICC
ITSELF.

12th DEC 2017.

142



So this plane was not really flying
over Nairobi on 10th October 2017.
Over my back yes! Over Nairobi?



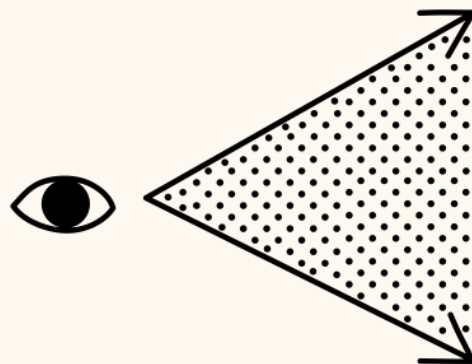
LOOKING EAST FROM THE
TOP OF KICC. 71
showing the dramatic difference from East to West
and North to South. The Diversity should be
celebrated but it should never have been about
a wealthy divide.
Looking forward to this plan.

OCTOBER 10th KICC.

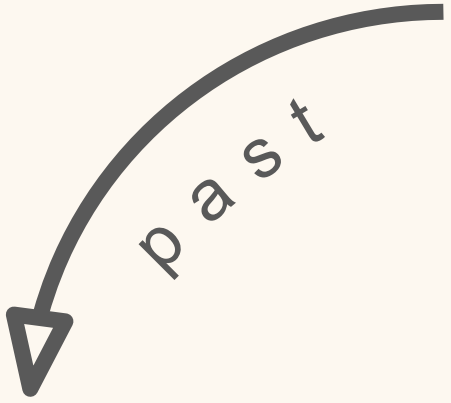
143

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Landscape Architecture in Kenya
circa 2006



private realm



‘The dilemma of planning in Africa ...is the phenomenon of Western-oriented theory and practice being imposed on purely African problems in a manner which does not result in the best solution’ and hence the need for ‘the development of African answers to African problems’
(Young 1990:119)

(3) Master Plan for a Colonial Capital in 1948

The new plan was an experiment in town planning for the colonial city of Nairobi, prepared by L. W. T. White, architect and town planner and Head of Department of Architecture, University of Cape Town and others. The master plan was funded by Municipal Council of Nairobi and the Railway Authorities.

In this plan, a zoning scheme was introduced with zones for official buildings, business and commercial, industry, railway, residential, official housing, open space, forest reserve and parks. One of the goals of the plan was to establish neighbourhood units for the working class for segregation. Also the plan was expected to make Nairobi more attractive for industrial investments.

It is noteworthy that the alignment of the railway had been changed to the present one along the western part of the town, which gave way for the expansion of the Uhuru highway today. The area to the south of the railway station was converted to an extensive industrial zone.

Prof. L. T. **White**

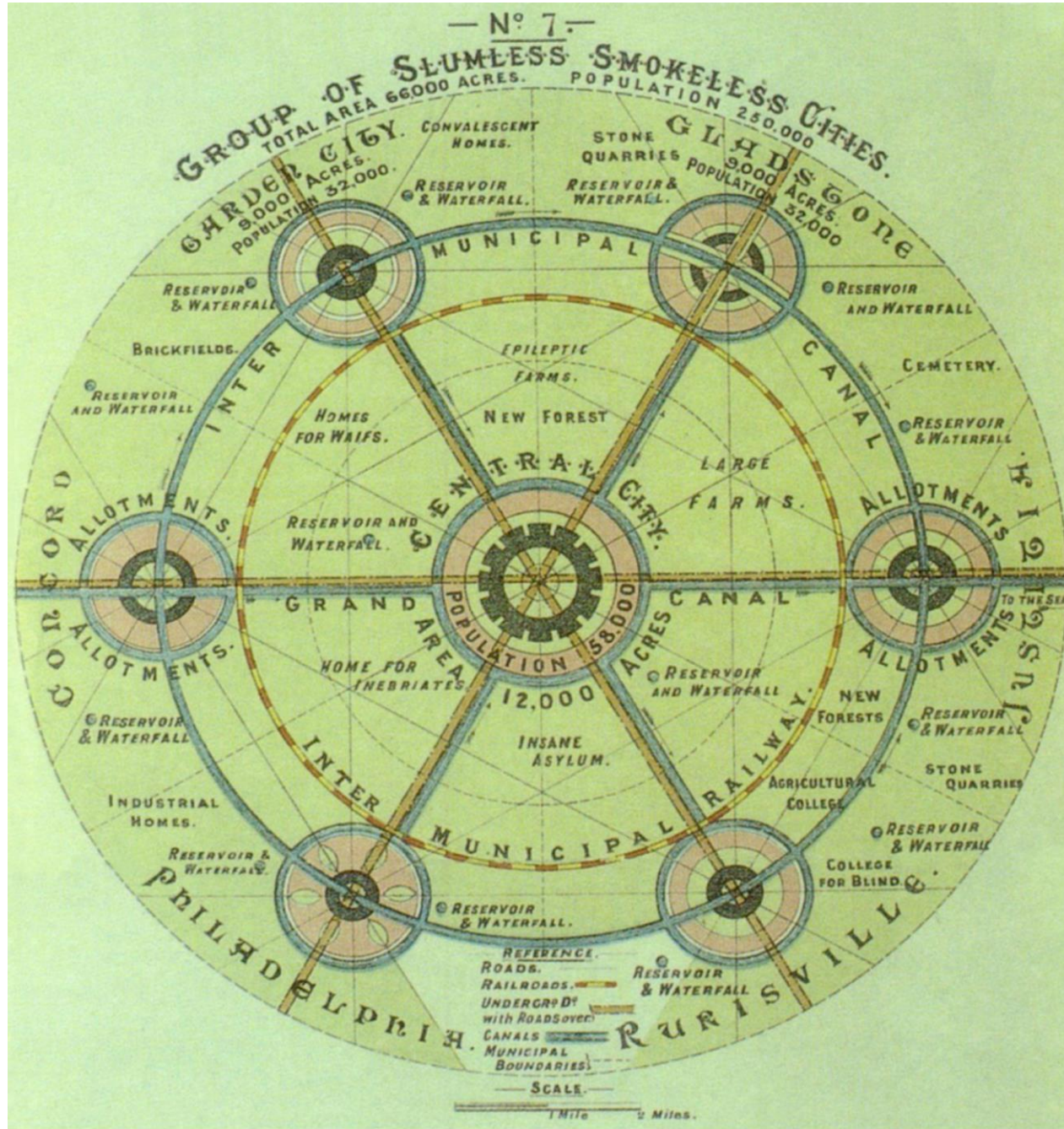
EXPERIMENT

SEGREGATION

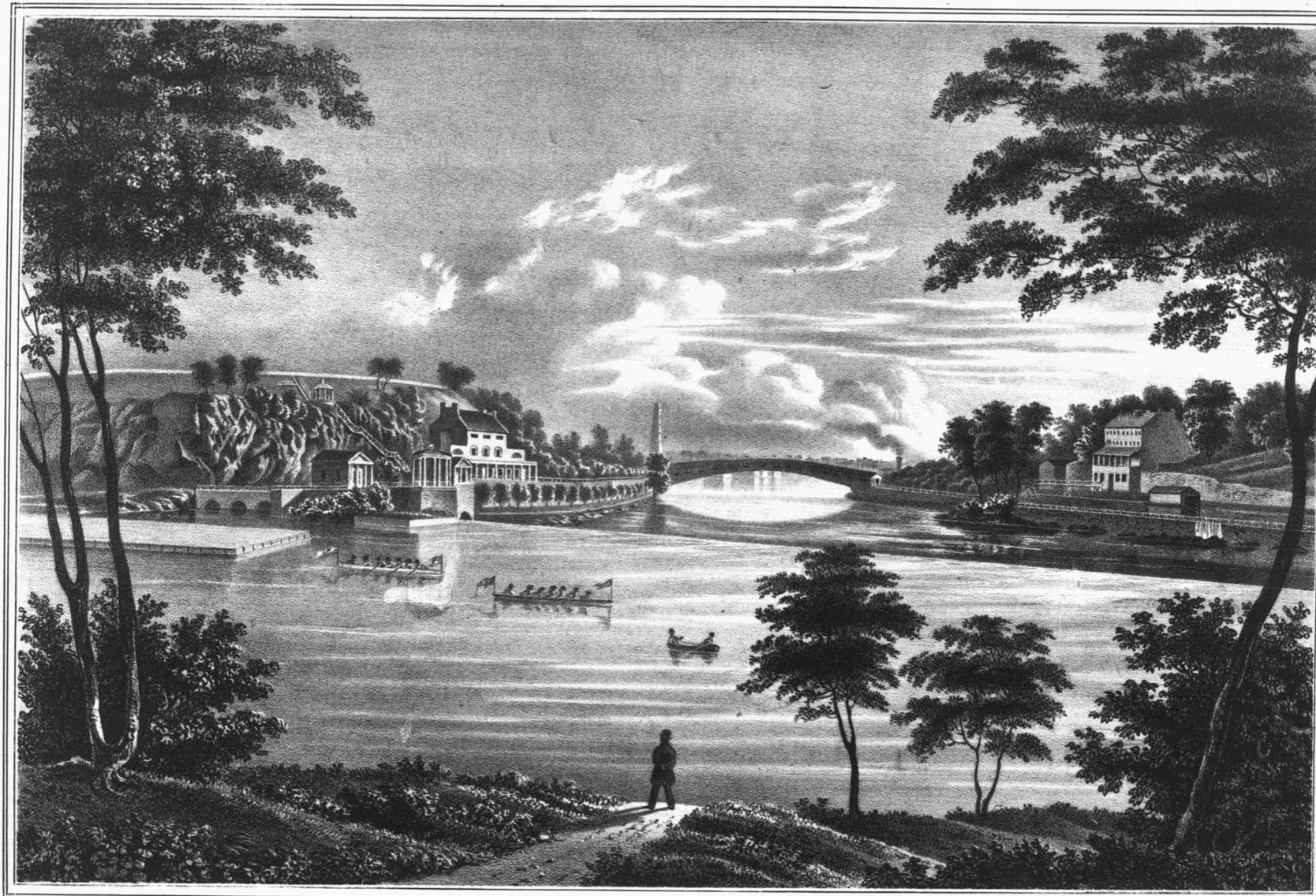
NEIGHBOURHOOD

GARDEN CITY - THE GREEN CITY IN THE SUN

past



past

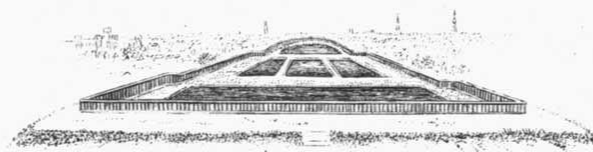


Engraved by J. C. Wild

Engraved by J. C. Wild & Chevalier, 72, North 2nd St. P.

FAIRMOUNT

*Pictorial Embellishment of the Philad. "a"
published at two Dollars a year in advance including*



WATERWORKS.

*Saturday Courier a family paper of the largest size
two Engravings of this kind.*

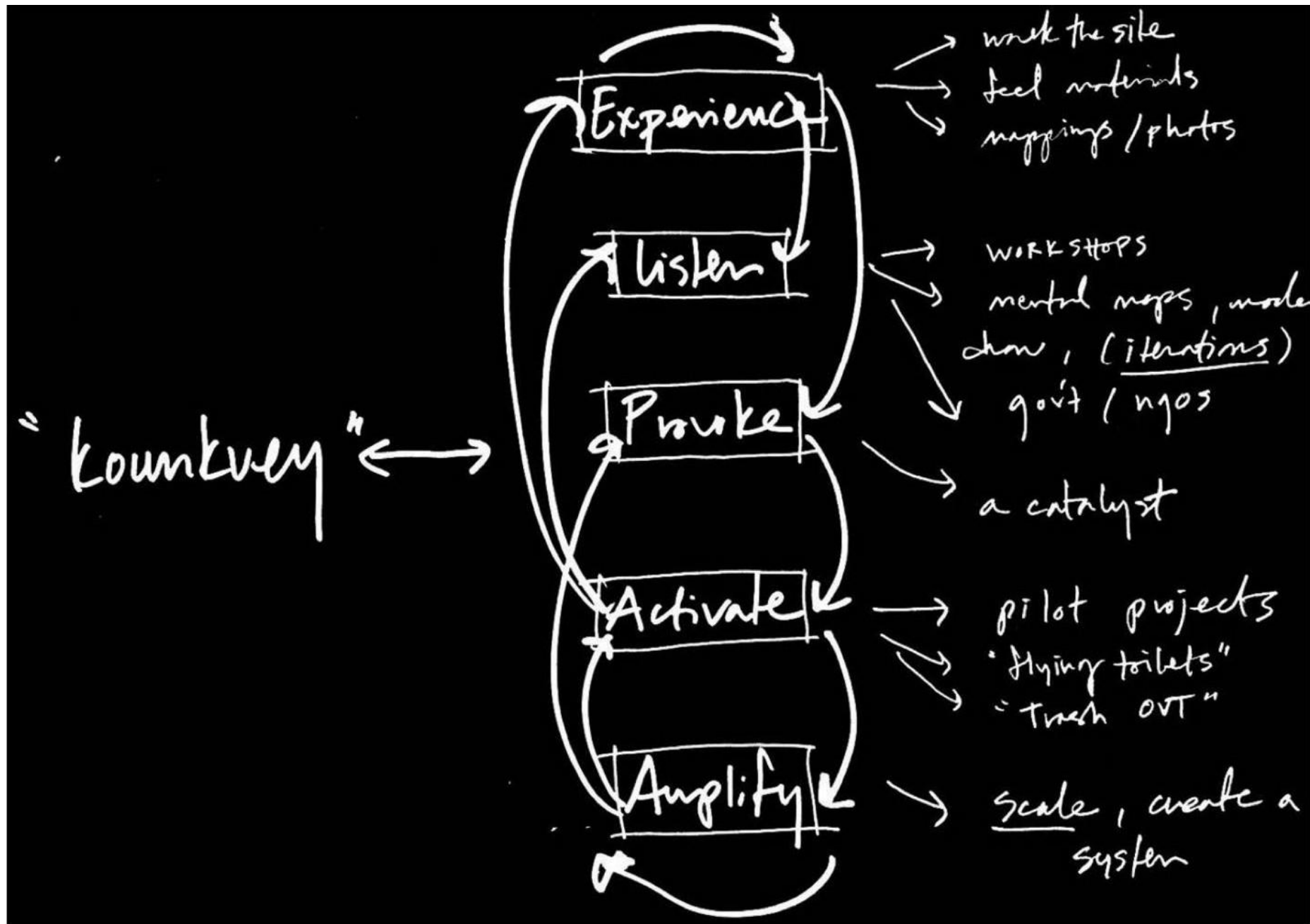
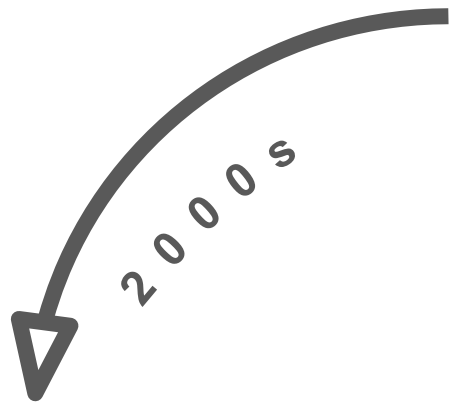
Fairmount is one of the most beautiful spots in the world. There are six basins (a bird's eye view of which is shown in the vignette) elevated upon a high hill above the tops of the houses of the city. The water is thrown into them by means of force pumps which are driven by a head of water from the river Schuylkill, affording a never failing supply to the inhabitants of the city, the Northern Liberties & Southwark. The works cost upwards a million of dollars. Copyright secured by Wild & Chevalier 1853

2000s





PERSPECTIVE STUDIES - Type 3 street



a different mode of practice



ellen

kotch

patrick

arthur

jen

me

the idea



คุ้น-เคย - "kun-coo-ee"
to get to know something **intimately**

where we work



KDI

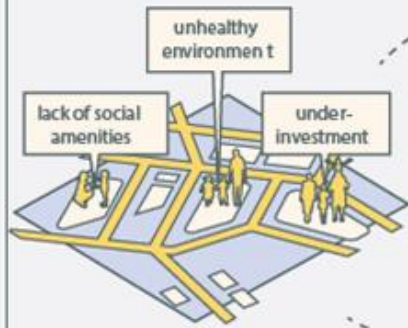


our theory of change

how we get to a more just public realm

who

We work with communities that have been overlooked and harmed through unjust planning and exclusionary design.



We focus on:

- Informal and low-income settlements in Kenya
- Disinvested neighborhoods across Southern California

how

We mobilize design, planning, research, and advocacy to advance community priorities and define longterm visions.



Our service areas:

- Design + build
- Plan + program
- Research + test
- Advocate + educate

what

We take on projects at all scales to tangibly improve quality of life for residents.

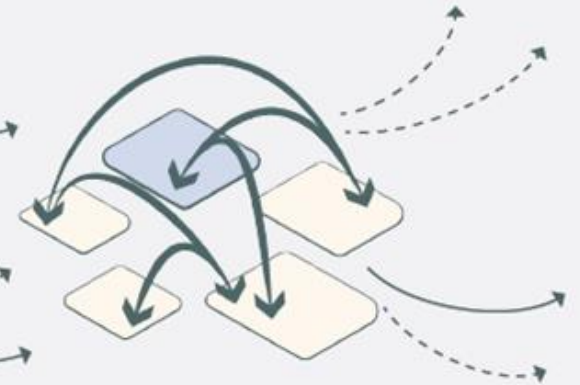


We create:

- Parks
- Plazas
- People's plans
- Green infrastructure
- Shade structures
- Mobility plans
- Marketplaces
- Streetscapes
- Educational Programs
- Urban Experiments
- Actionable Research
- Policy Outputs

wow!

We network our localized interventions and leverage their collective impact to undo systemic injustices in the built environment.

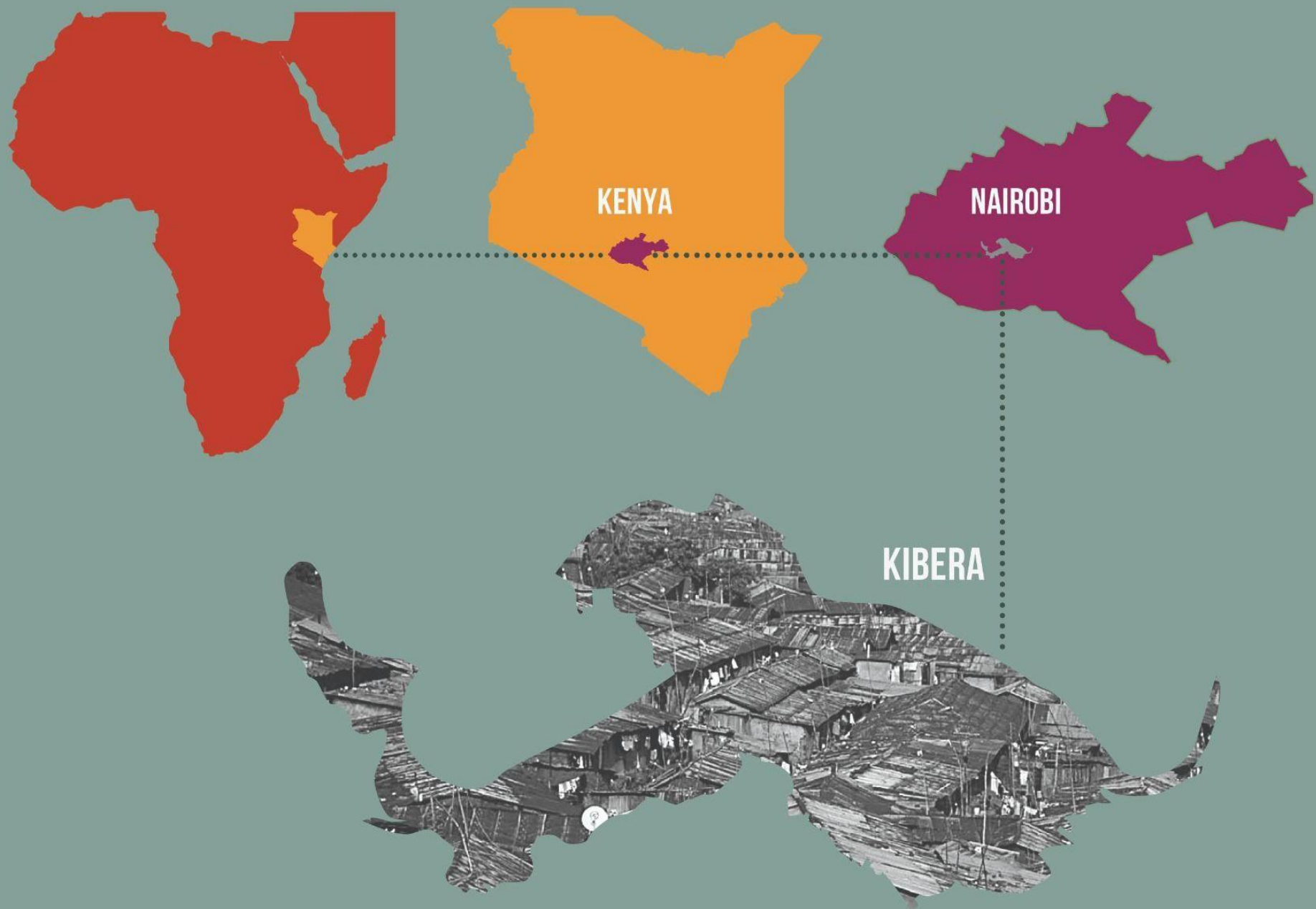


We build equity, opportunity, and health across cities and regions to improve public health, life expectancy, livelihoods, dignity, and quality of life.

 **01.** beginnings
kibera public space projects
(KPSP)

 **02.** Present - UFI

 **03.** the future

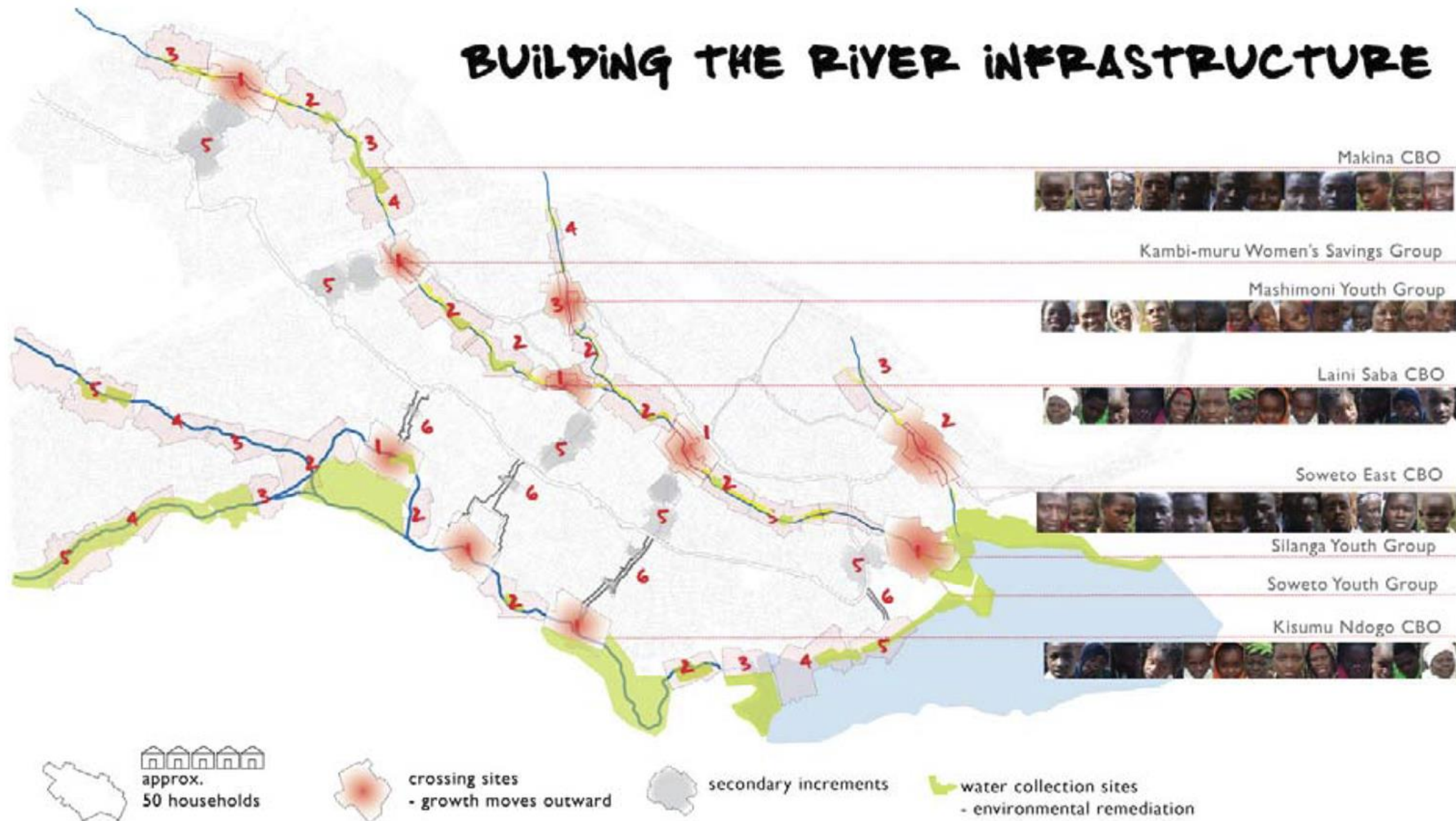


kibera public space project (kpssp)



location: nairobi, kenya

BUILDING THE RIVER INFRASTRUCTURE



before: site 1



after: site 1

physical

1. Bridge
2. Multi-purpose hall
3. Playground
4. Office
5. Garden+Greenhouse
6. Sundries Kiosk
7. Park
8. Access road

social

1. Community Programming
2. School
3. Church
4. Management Training
5. Skills Training

economic

1. Community Hall Rental
2. Watertap
3. Savings +Loan Program
4. Basket Weaving Cooperative
5. Vegetable Business
6. Compost Farm

CONSTRUCTING A COLLABORATIVE
LANDSCAPE INFRASTRUCTURE:
FIBERA, KENYA



WHAT IS THE FIBERA LANDSCAPE?

S During community engagement, we identified key challenges: lack of access to water, electricity, and internet; poor health facilities; and limited economic opportunities. These challenges are interconnected and require a holistic approach to address them.

W The Fibera Landscape is a collaborative effort to address these challenges through a series of interventions: water supply, electricity, internet, health facilities, and economic opportunities. These interventions are designed to be integrated and synergistic, creating a holistic and sustainable landscape.



productive public space



PHYSICAL

Green infrastructure

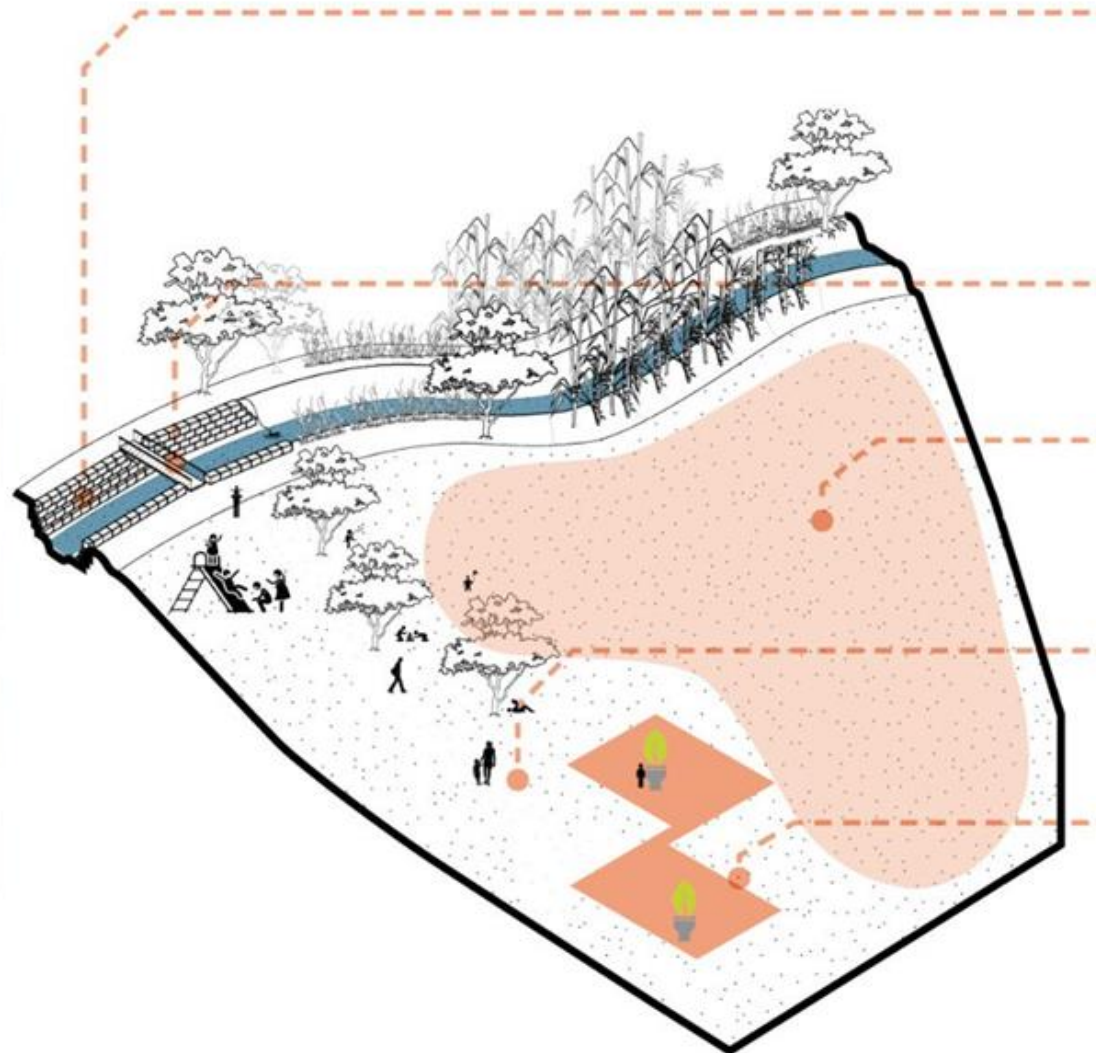
Soils remediation

Physical Access

Organic Waste Recycling

Climate Adaptation

Watershed Management



Riverbank remediation with gabions and planting for flood risk reduction.

Pedestrian access bridge

Trash dump removal & topsoil rejuvenation

Thoroughfare path

Organic waste recycling center

productive public space



SOCIAL

Public assembly

Social programs

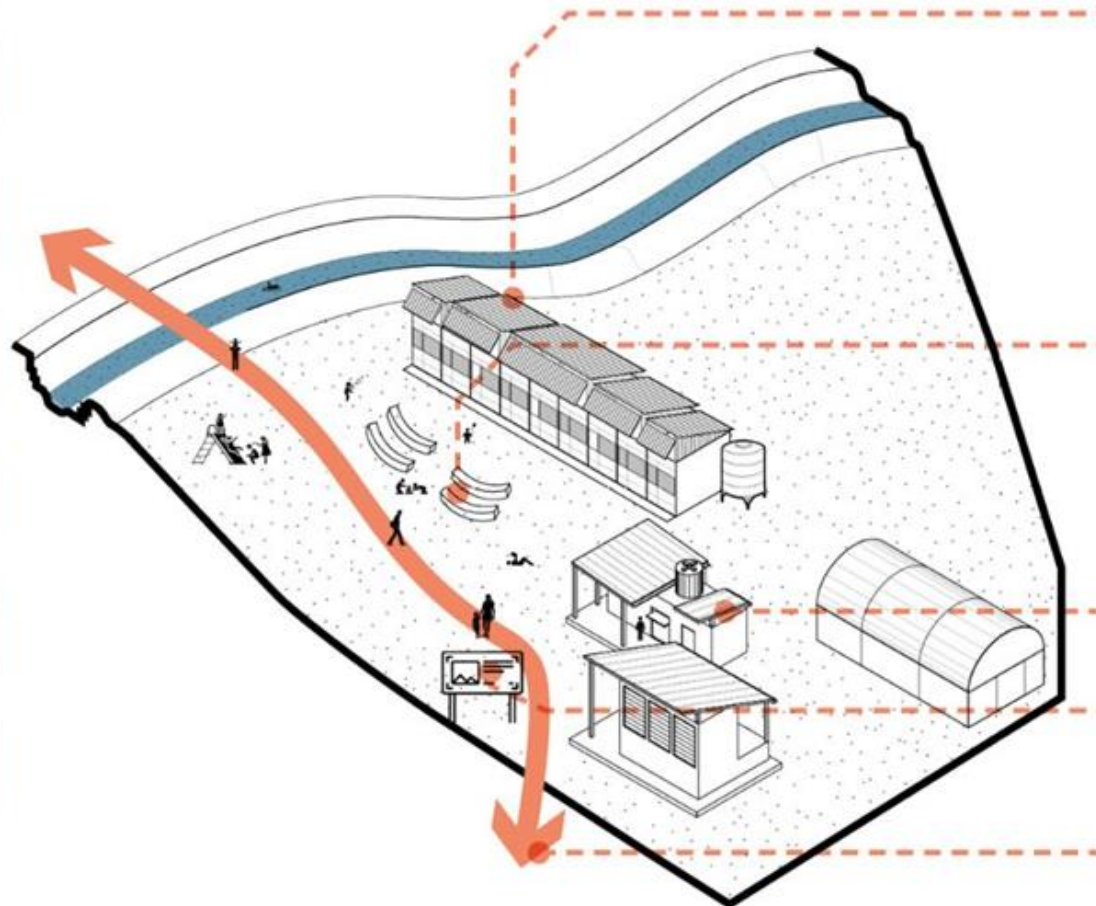
Inclusive spaces

Leadership training

Youth activities

Physical connections

Cultural + political exchange



Multifunction community hall; school, church, skills training center (management and leadership)

Accessible and inclusive public park with playground, trees, benches and events

Group's site office

Community information board

Transport & services connection

productive public space



ECONOMIC

Small businesses

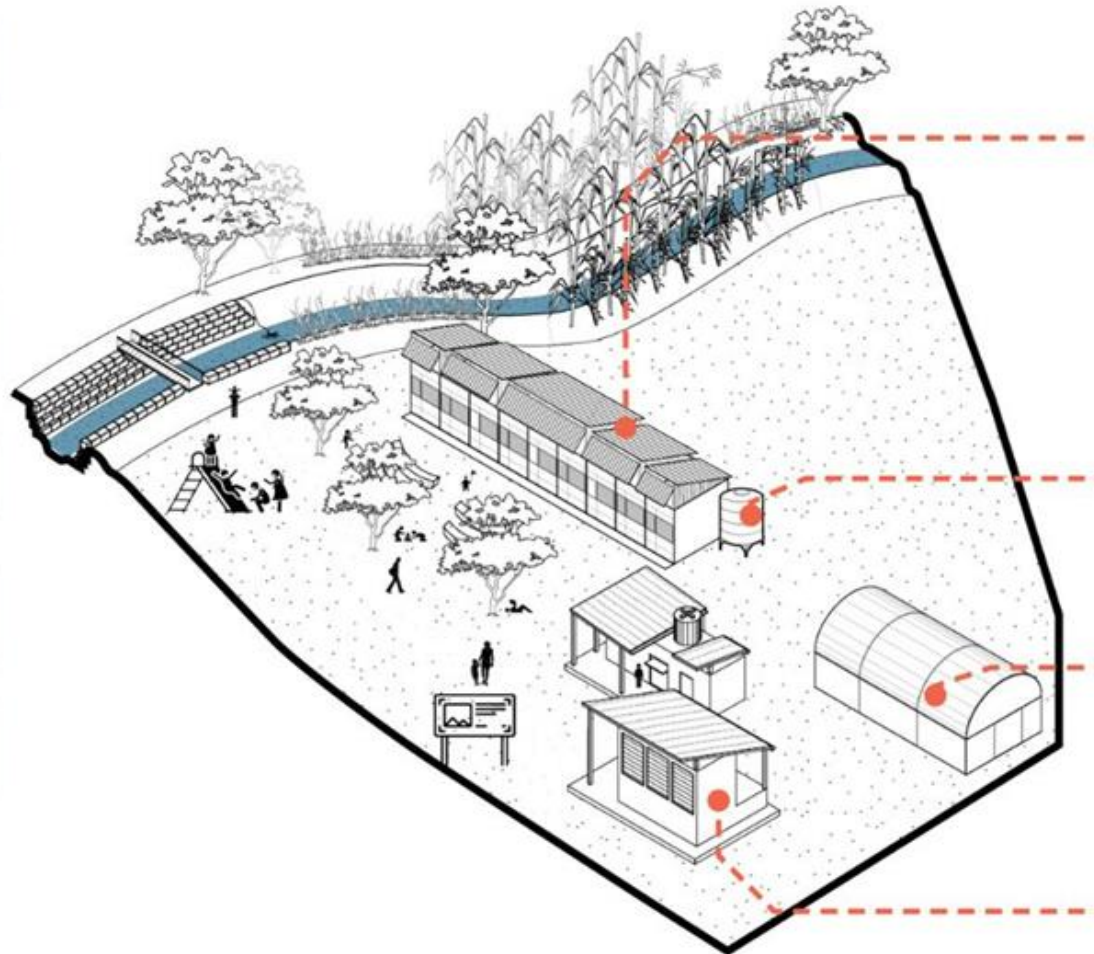
Savings + loans groups

Business skills training

Vocational skills training

Affordable services

Community space rental

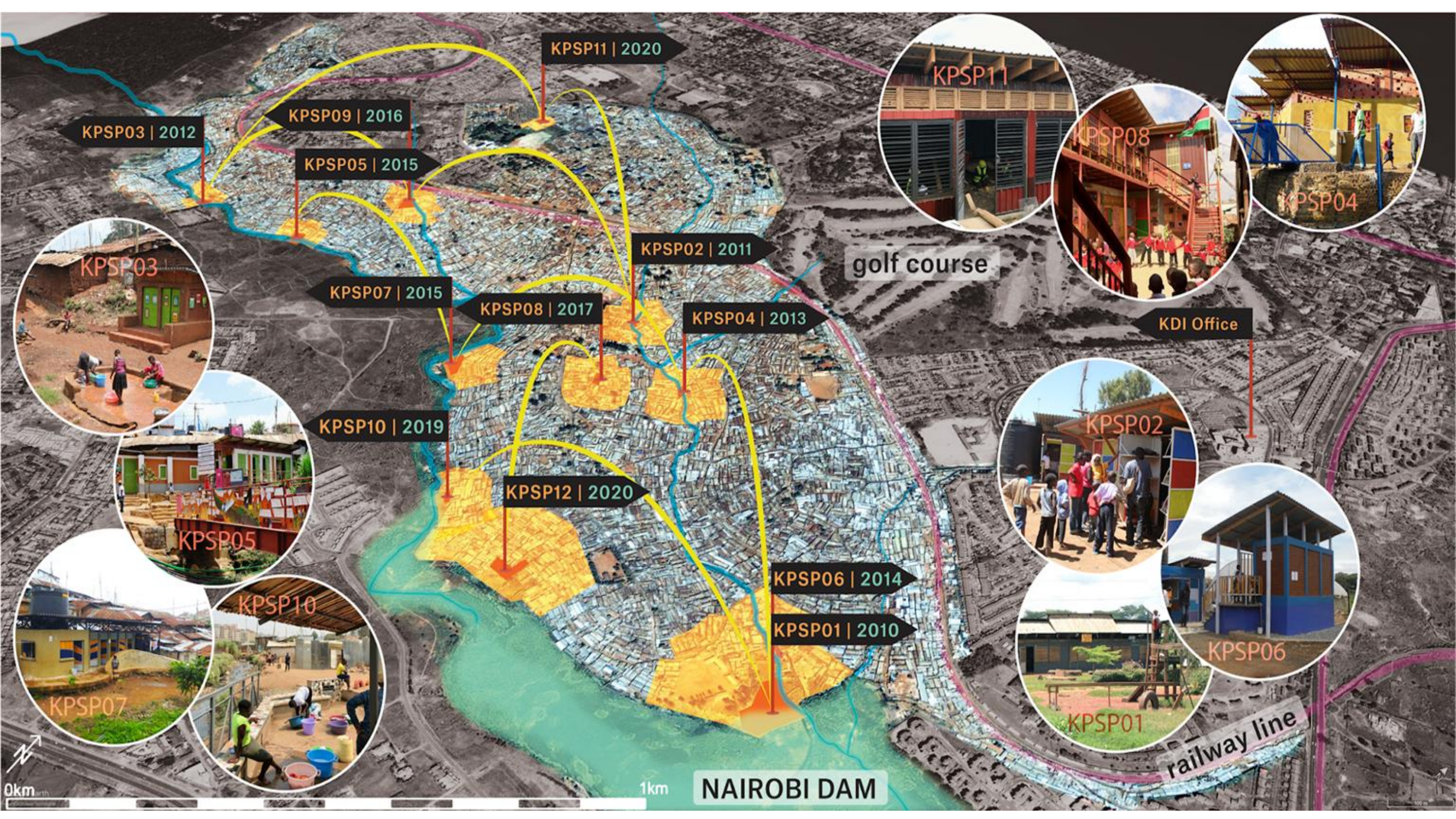


Saving & loans groups,
renting out of hall,
& basket weaving
cooperative

Rainwater harvesting,
water tank & water tap

Vegetable business.
Composting farm &
fertiliser business.

Composting toilet block &
wetlands.



KPSP03 | 2012

KPSP09 | 2016

KPSP05 | 2015

KPSP11 | 2020

KPSP02 | 2011

golf course

KPSP11

KPSP08

KPSP04

KDI Office

KPSP03

KPSP07 | 2015

KPSP08 | 2017

KPSP04 | 2013

KPSP10 | 2019

KPSP12 | 2020

KPSP06 | 2014

KPSP01 | 2010

KPSP05

KPSP02

KPSP06

KPSP10

KPSP07

KPSP01

railway line

0km

1km

NAIROBI DAM



engage





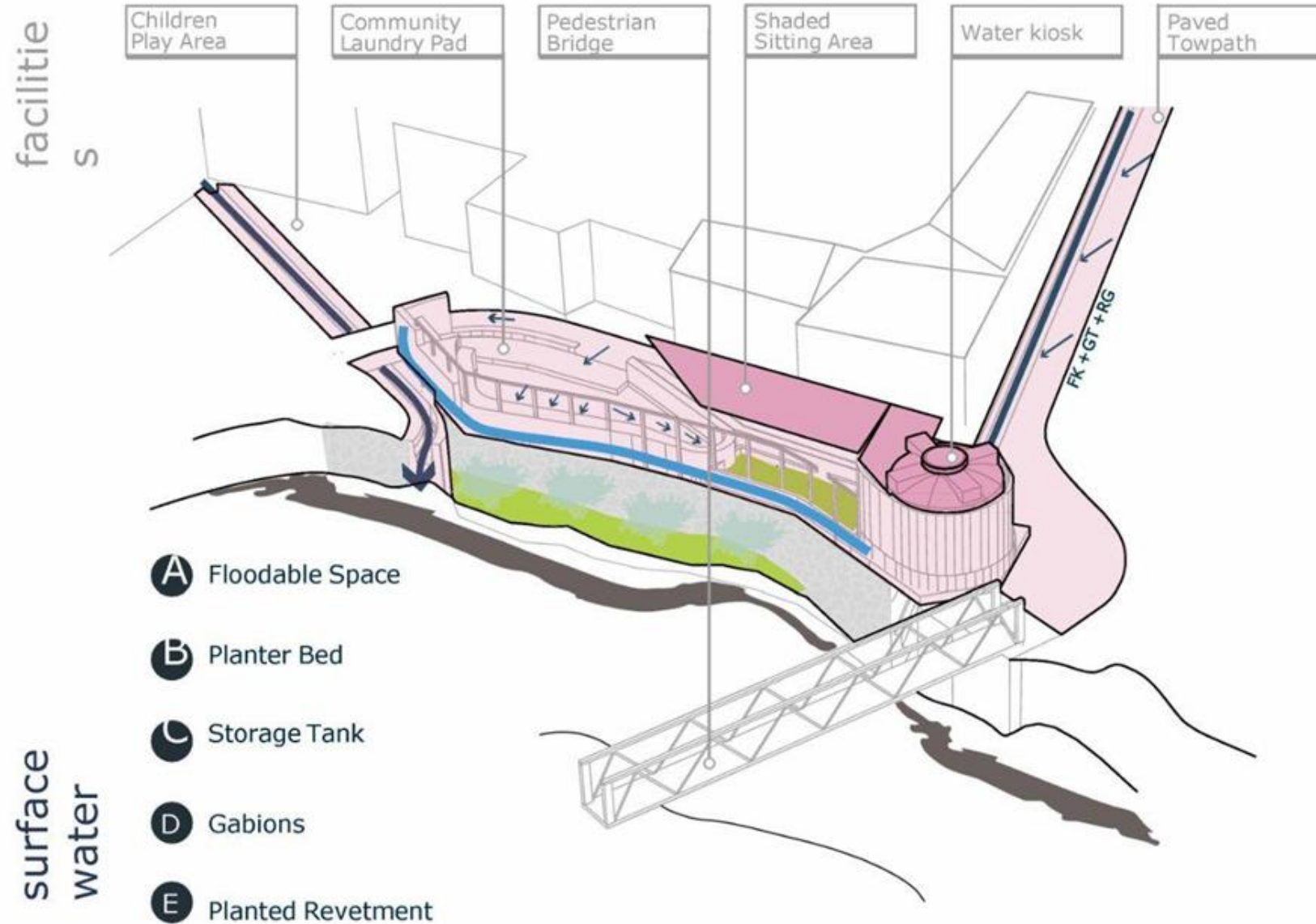


andolo bridge community group





andolo site 10



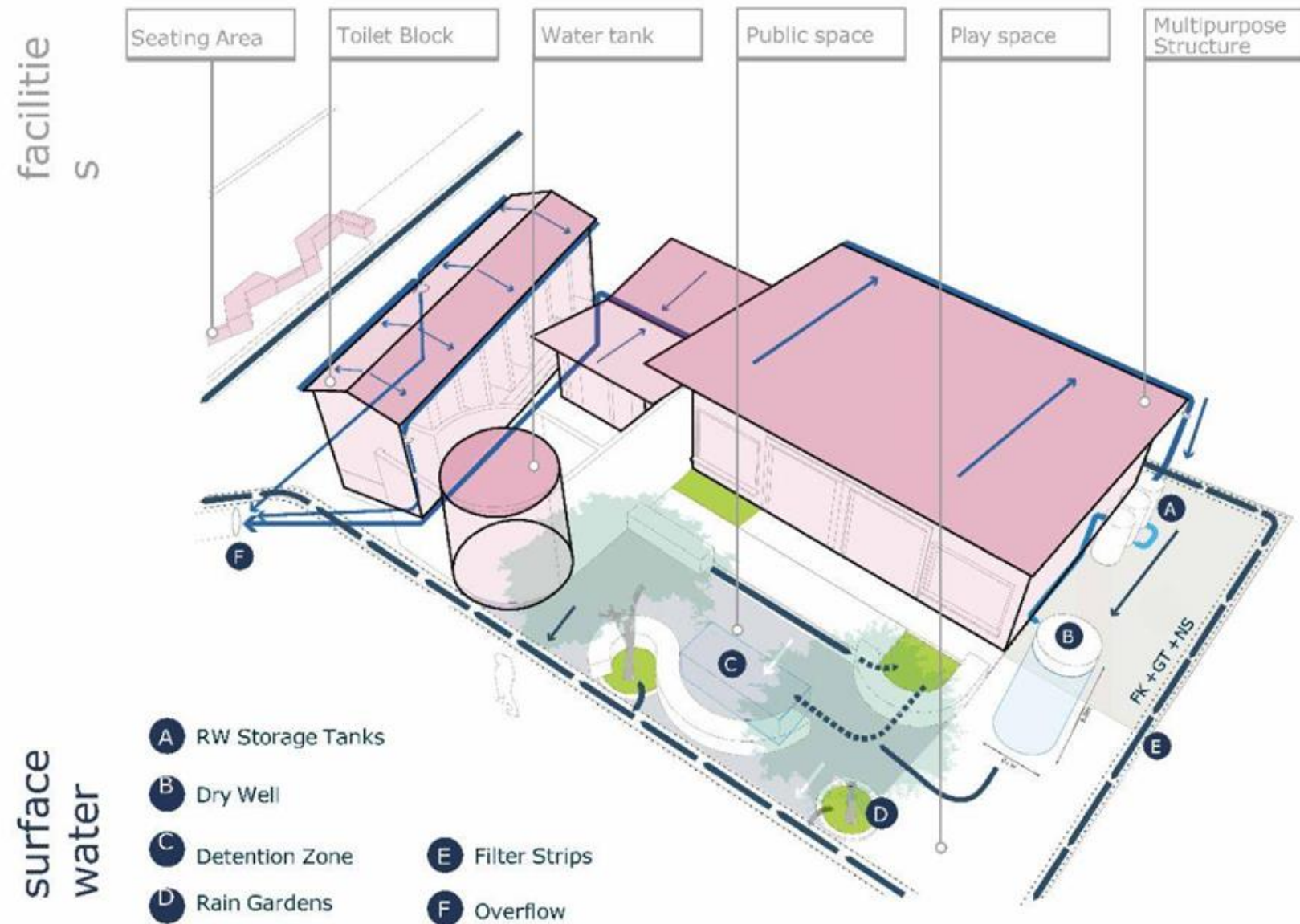
Andolo Site 10



After Andolo - KPSP 10



vuma site 11



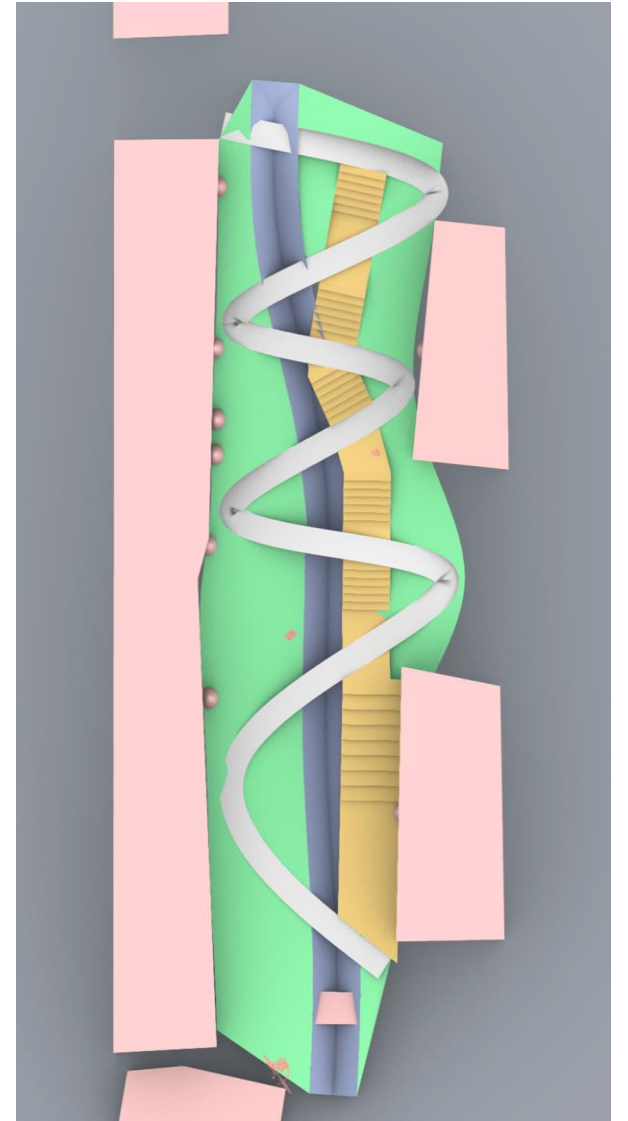


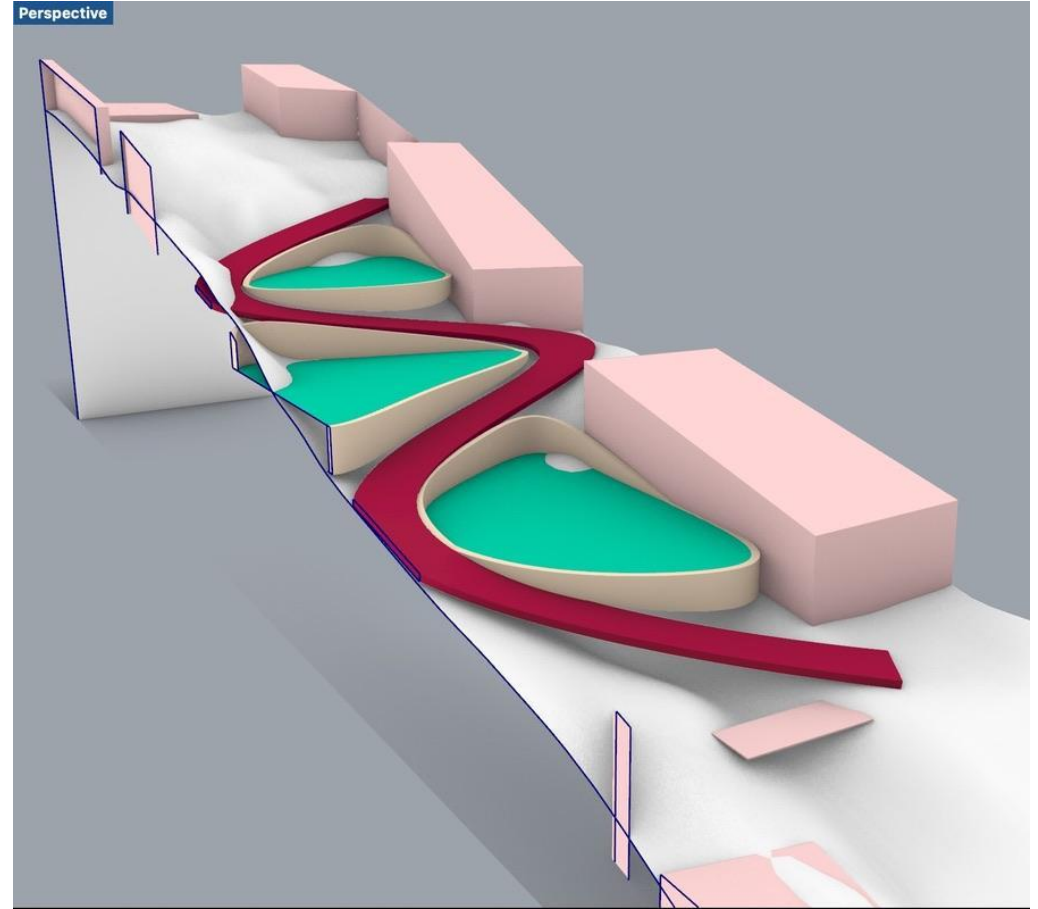
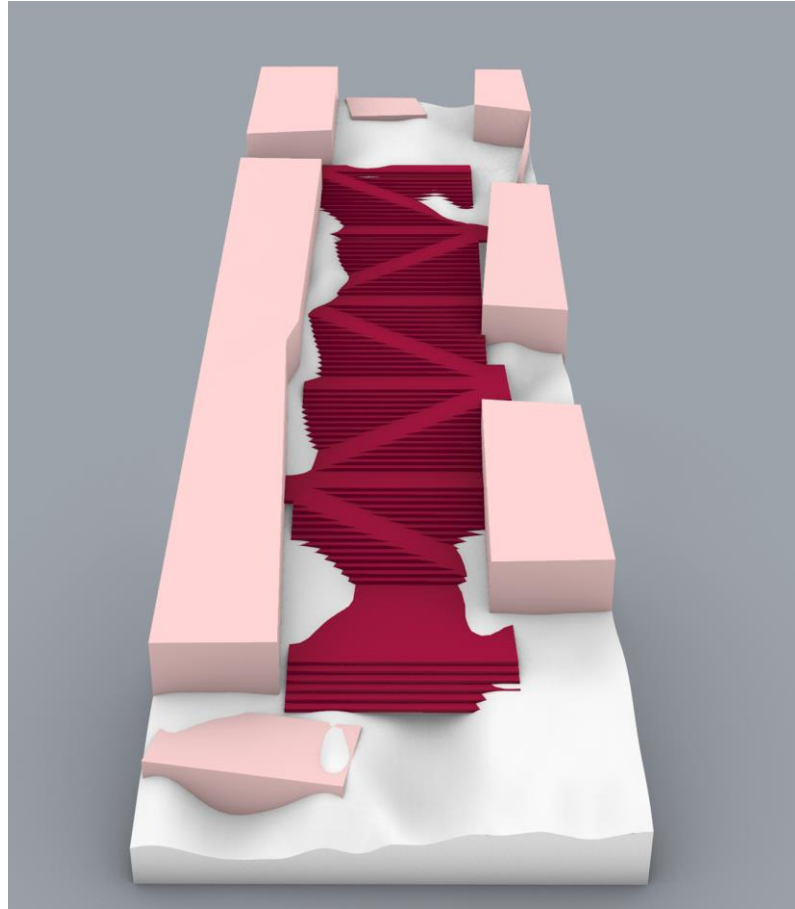
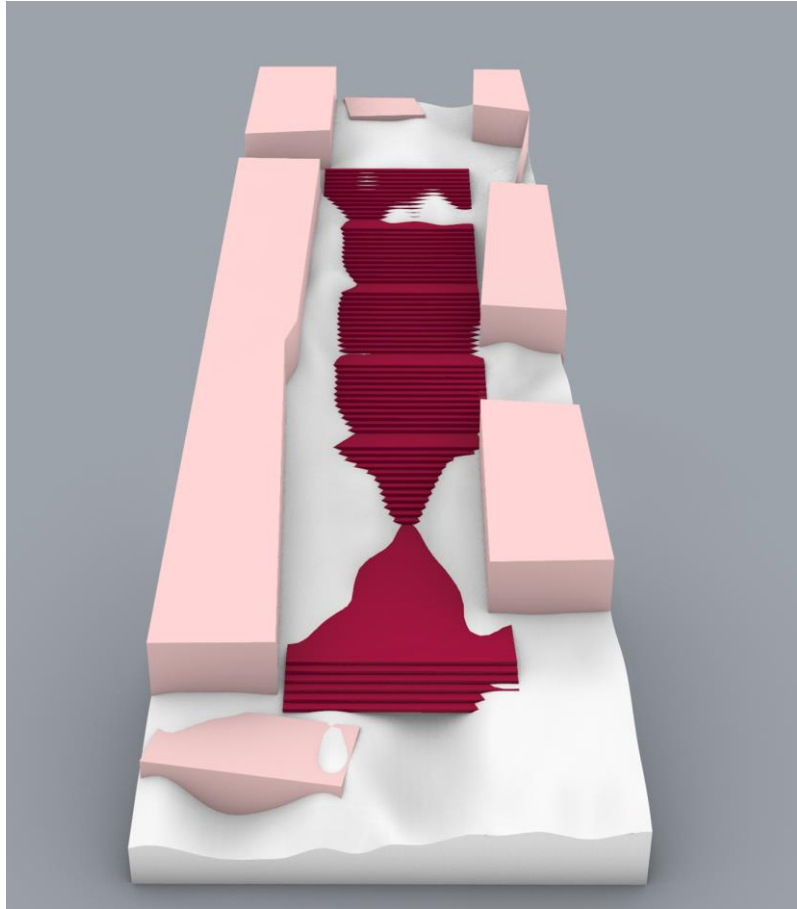
kibera green streets: before





co-design + study







before



after



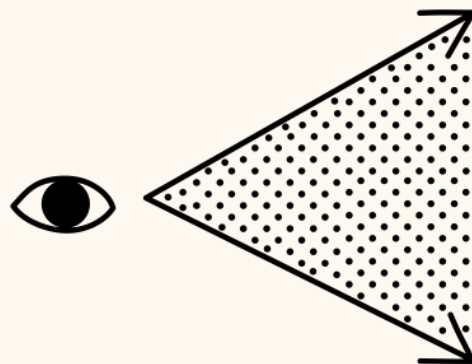
kpsp stages



1. request for proposals
2. stakeholder alignment
3. planning and design
4. implementation
5. operations

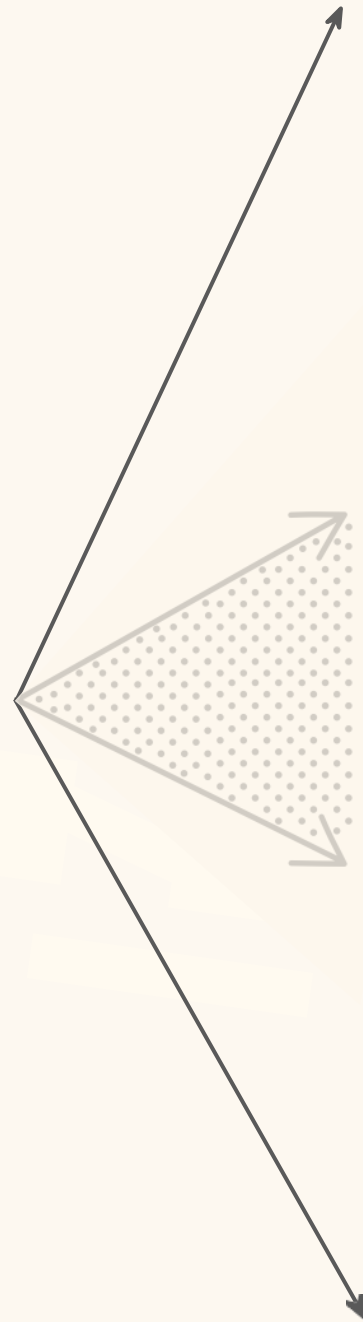


Landscape Architecture in Kenya
circa 2006



private realm

KDI approach to landscape
circa 2006



private realm

public realm



physical landscape



political landscape



social landscape



physical landscape

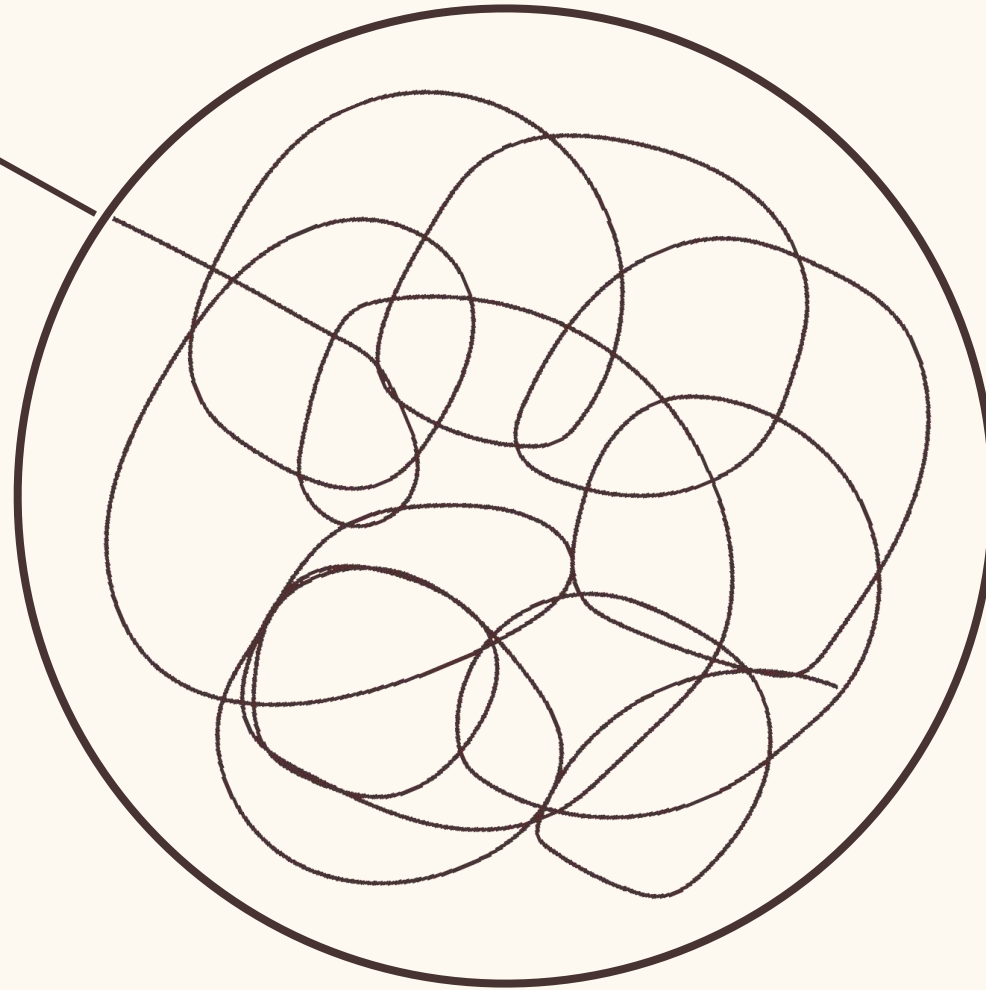


political landscape



social landscape

kdi



Landscape as defined by the profession

kdi



physical landscape

political landscape

social landscape

the profession

projects

present

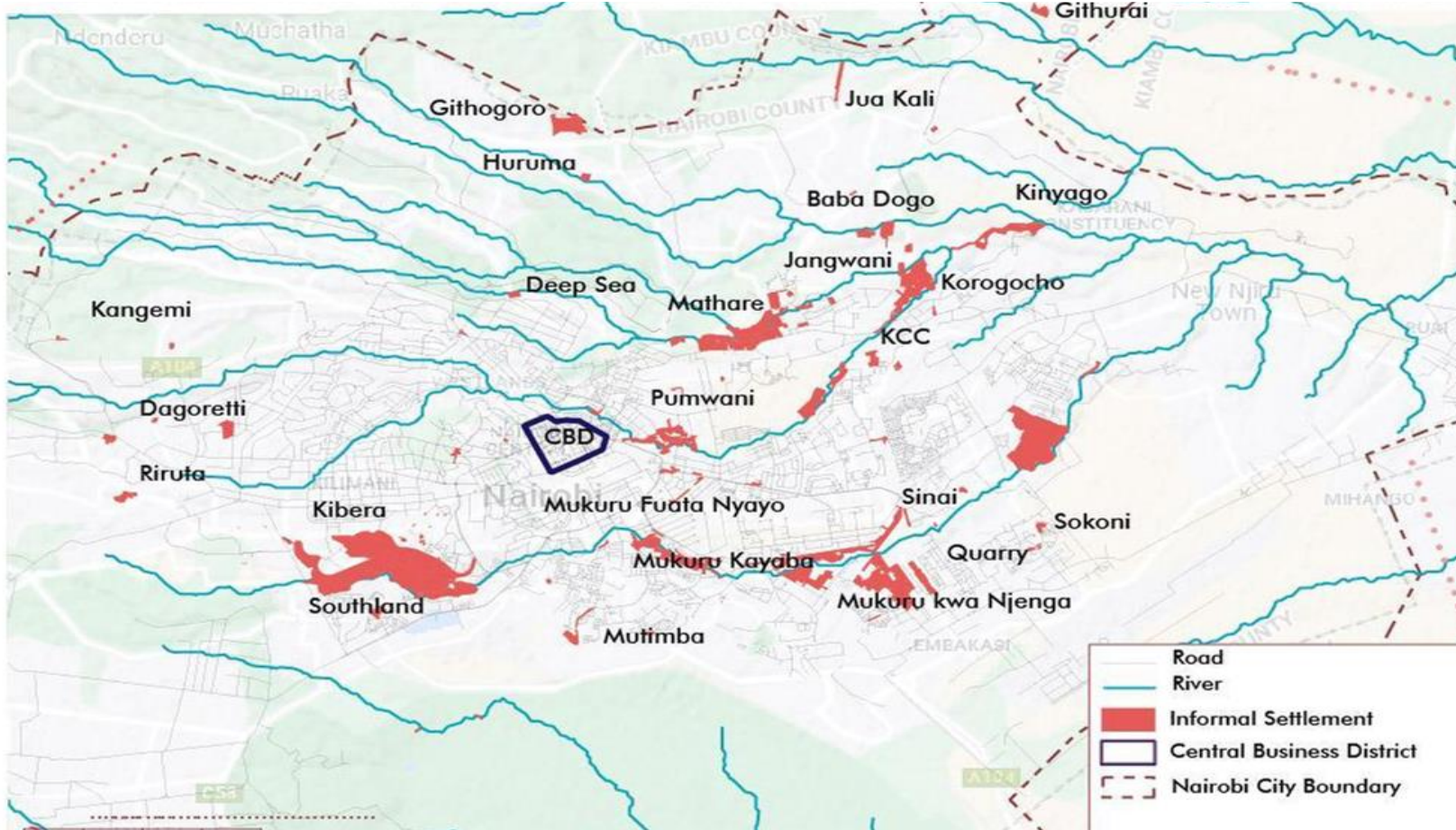
 **01.** ■ kibera public space projects (KPSP)

 **02.** ■ present - urban fabric initiative (UFI)

 **03.** ■ present continuous.....

Urban Fabric Initiatives, Nairobi

The Second Kenya Informal Settlement Improvement Program (KISIP 2)



AFD
AGENCE FRANÇAISE
DE DÉVELOPPEMENT

KISIP

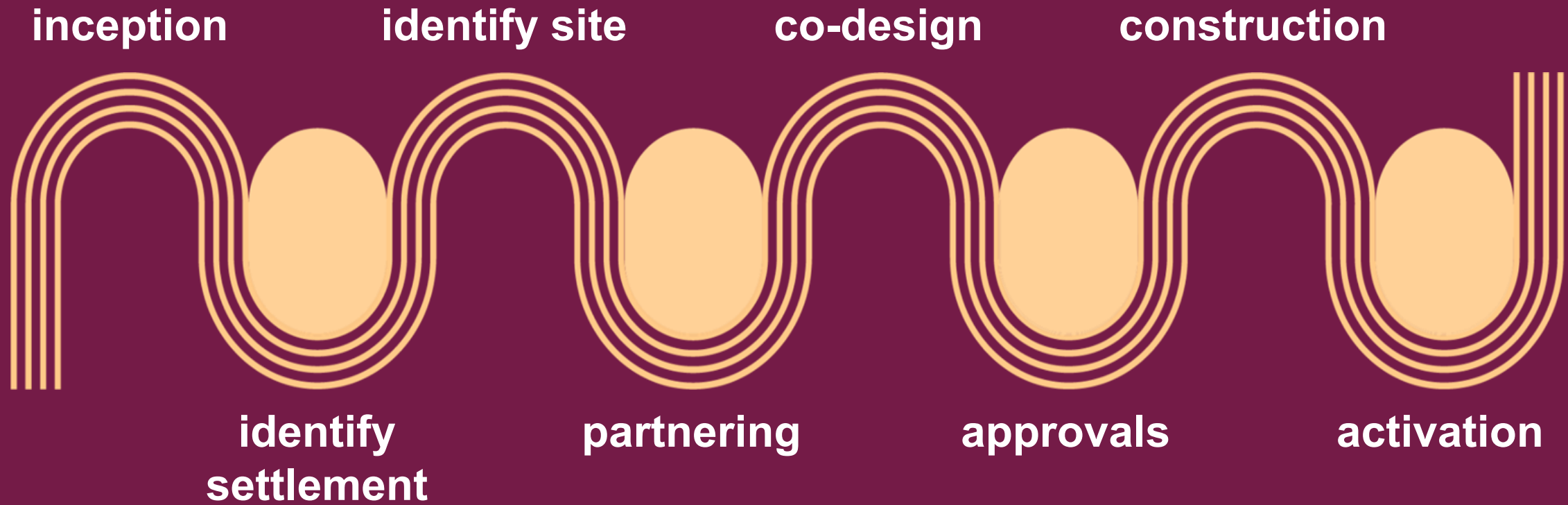


NAIROBI
CITY COUNTY
— Better City, Better Life —



3 settlements | **2,500** direct | **37,000** indirect

project processes







Kahawa Soweto

UFI PROJECT:- SOWETO KONGO



KISIP

KDI

AMT

sdi.kenya

WITH THE SUPPORT OF
AFD

Kahawa Soweto

UFI PROJECT:KAENI SOBA



KISIP

KDI

AMT

sdi.kenya

WITH THE SUPPORT OF
AFD



KISIP

KDI

AMT

sdi.kenya

WITH THE SUPPORT OF
AFD



3 new public spaces
co-designed with residents and Nairobi City Council

2 public space sites in **kahawa**

1 public space site in **kayole**

13 new businesses set to power local livelihoods and maintain the sites

cyber cafe toilets

laundrette halls for hire

What is inside the Sites ?

Kahawa | Kayole

4 buildings **3** playgrounds **2** septic tanks **1** food court

3 community meeting halls **15000L** water storage **260m** drainage + Nbs **60sqm** shading

nature - based solutions (nbs) 500+ planting 50+ trees solar lighting

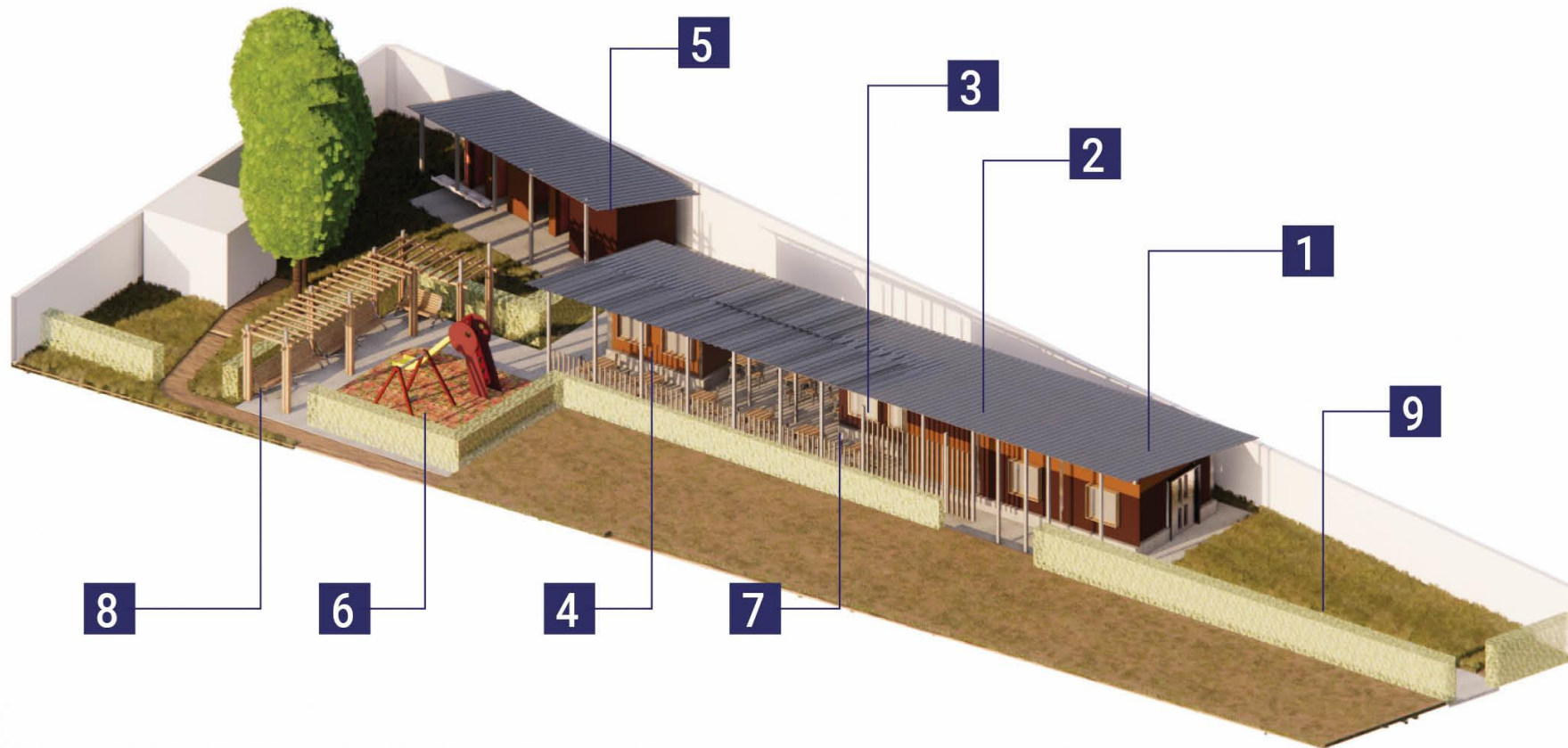
Construction done differently:

Training & Learning Gender balanced hiring Locally sourced material

Local Labour No disruption to services



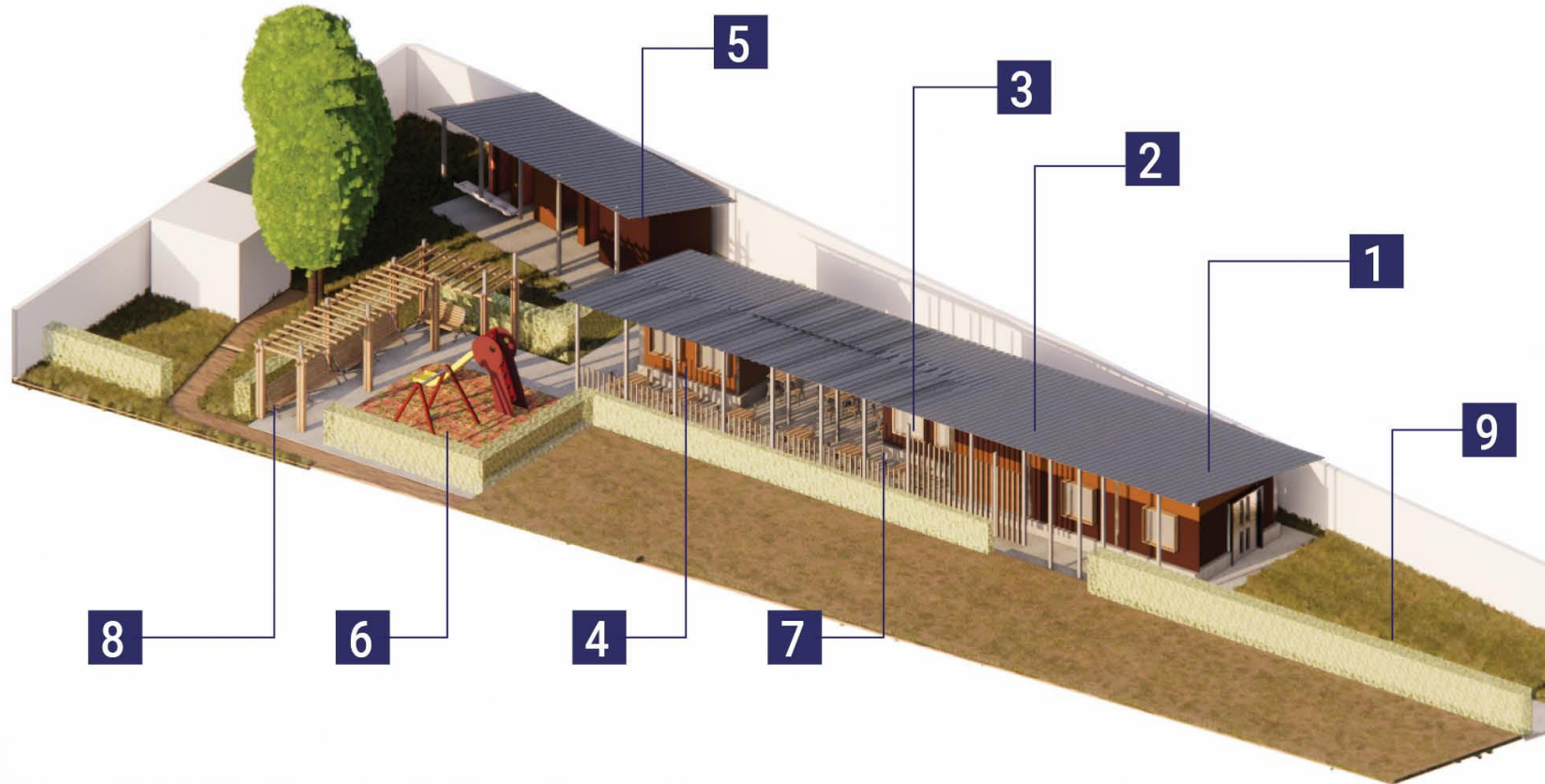
2 Kahawa Soweto - Kongo Hospital



Legend

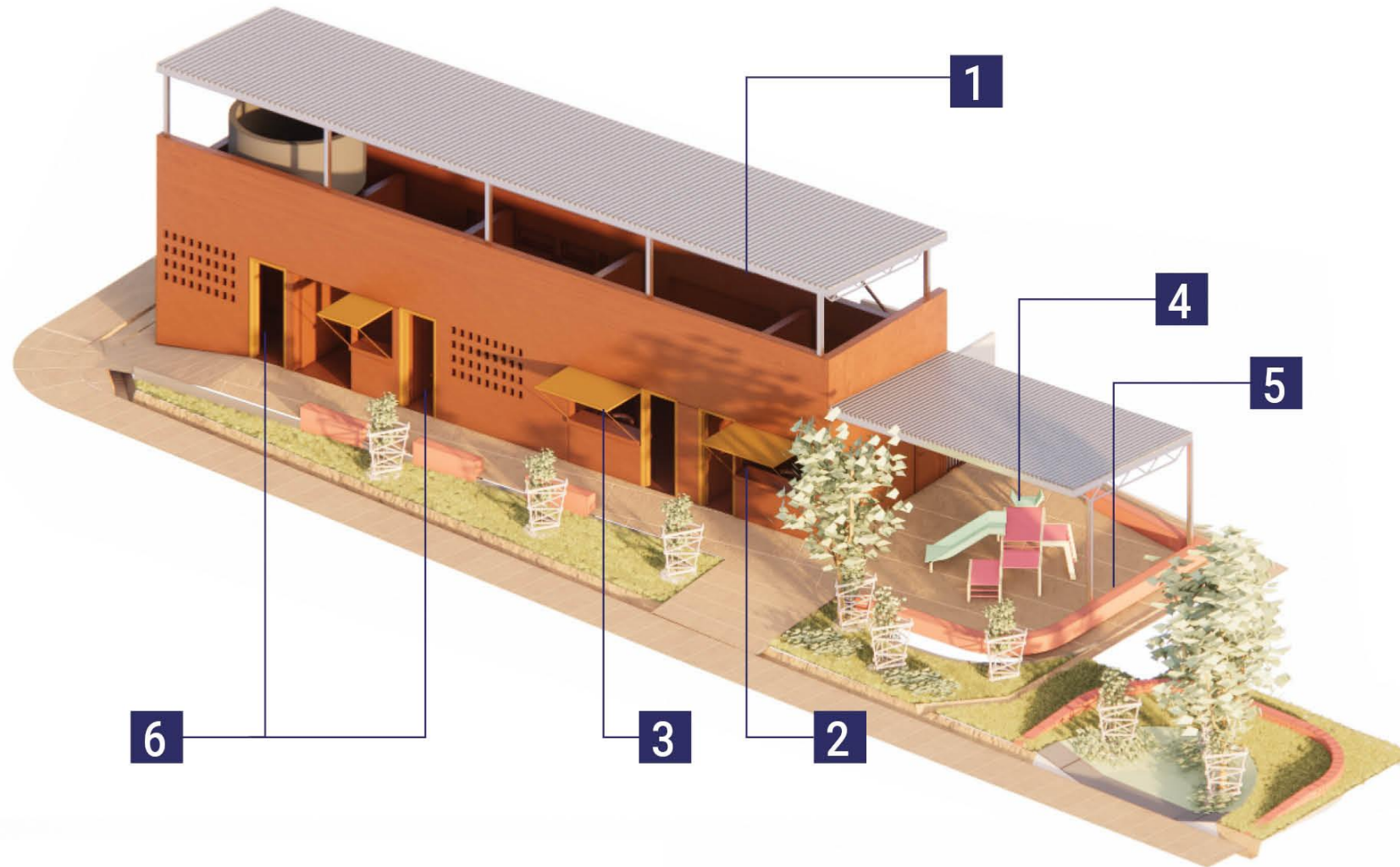
- 1** Hall
- 2** Office
- 3** Kitchen
- 4** Shop
- 5** Washrooms
- 6** Playground
- 7** Waiting area
- 8** Feeding area
- 9** Breakout area

2 Kahawa Soweto - Kongo Hospital



1

Kahawa Soweta - Kaeni Soba

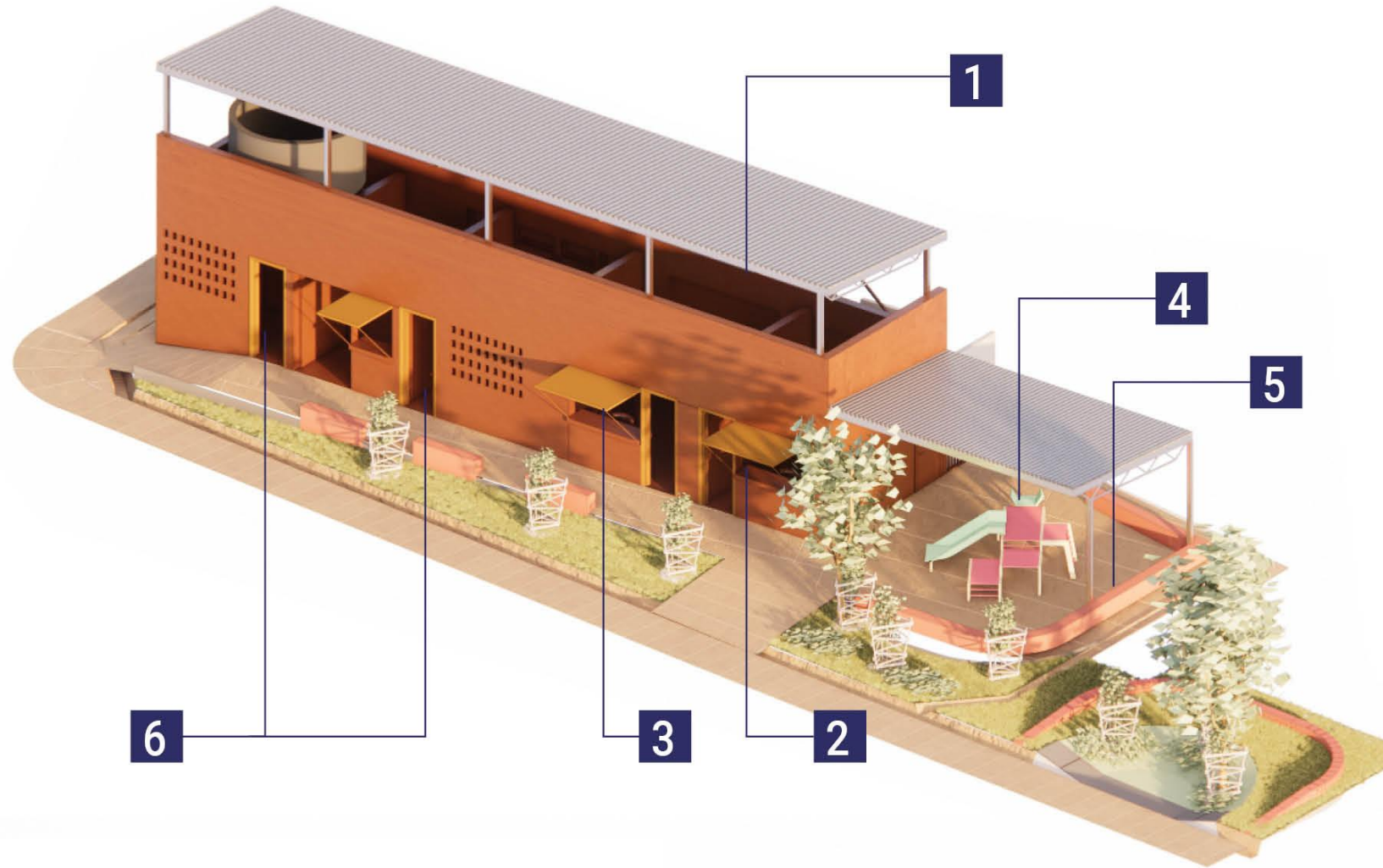


Legend

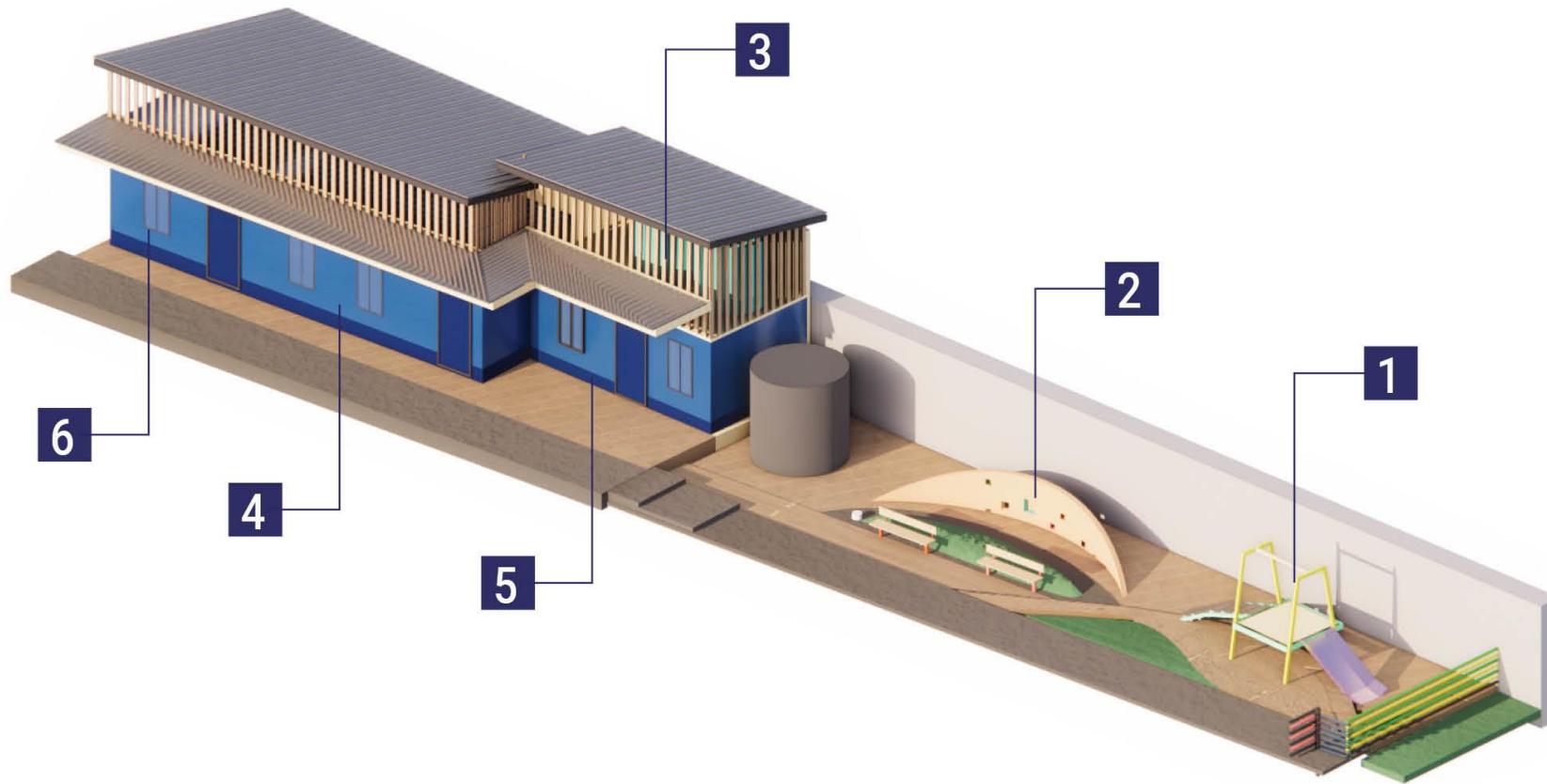
- 1** Drying area
- 2** Laundrette
- 3** Cyber cafe
- 4** Playground
- 5** Sitting area
- 6** Washrooms

1

Kahawa Soweta - Kaeni Soba



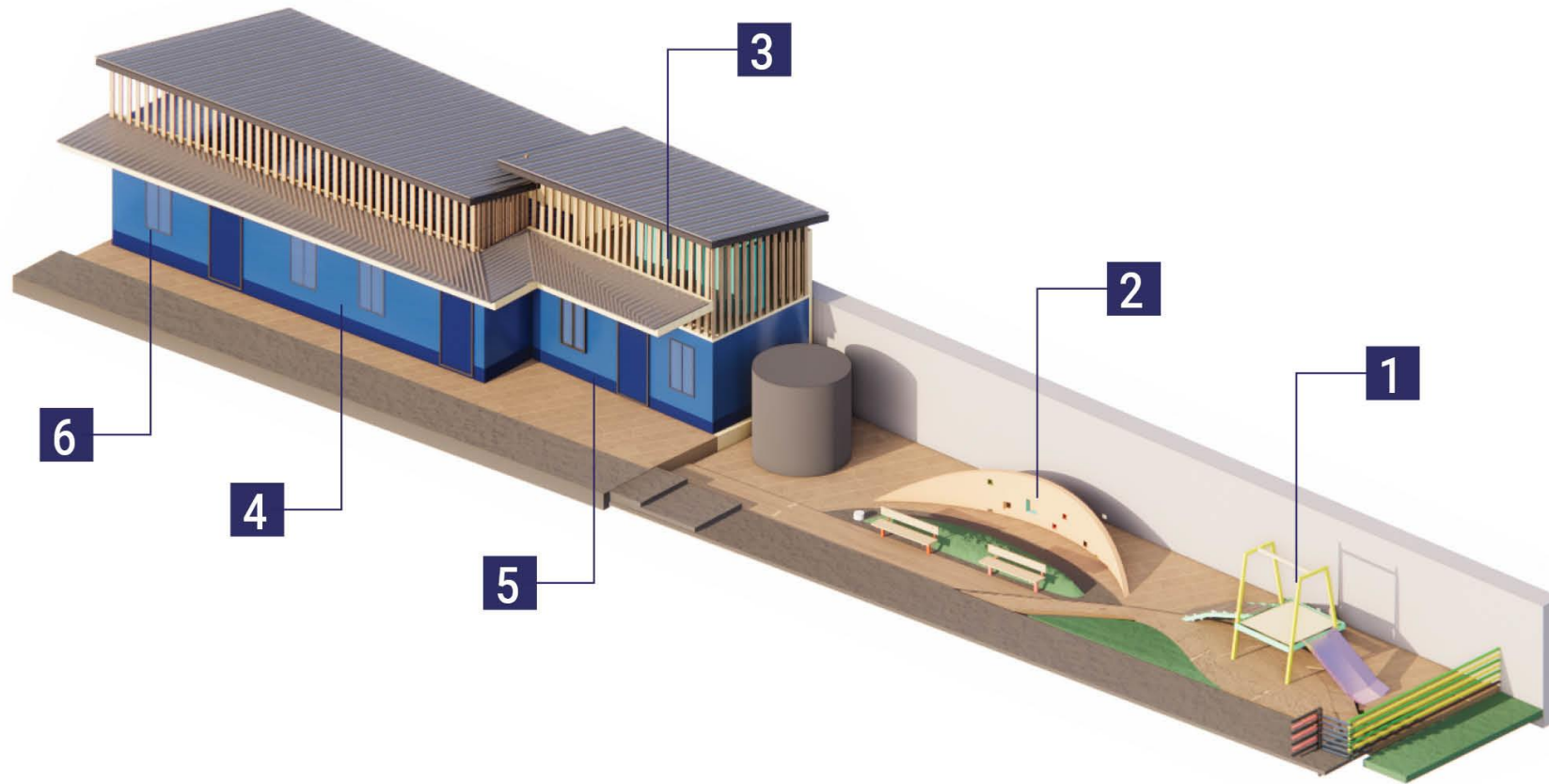
3 Kayole Soweto - Jacaranda



Legend

- 1** Playground
- 2** Graffiti wall
- 3** Water store
- 4** Multipurpose room
- 5** Washrooms
- 6** Office | Shops

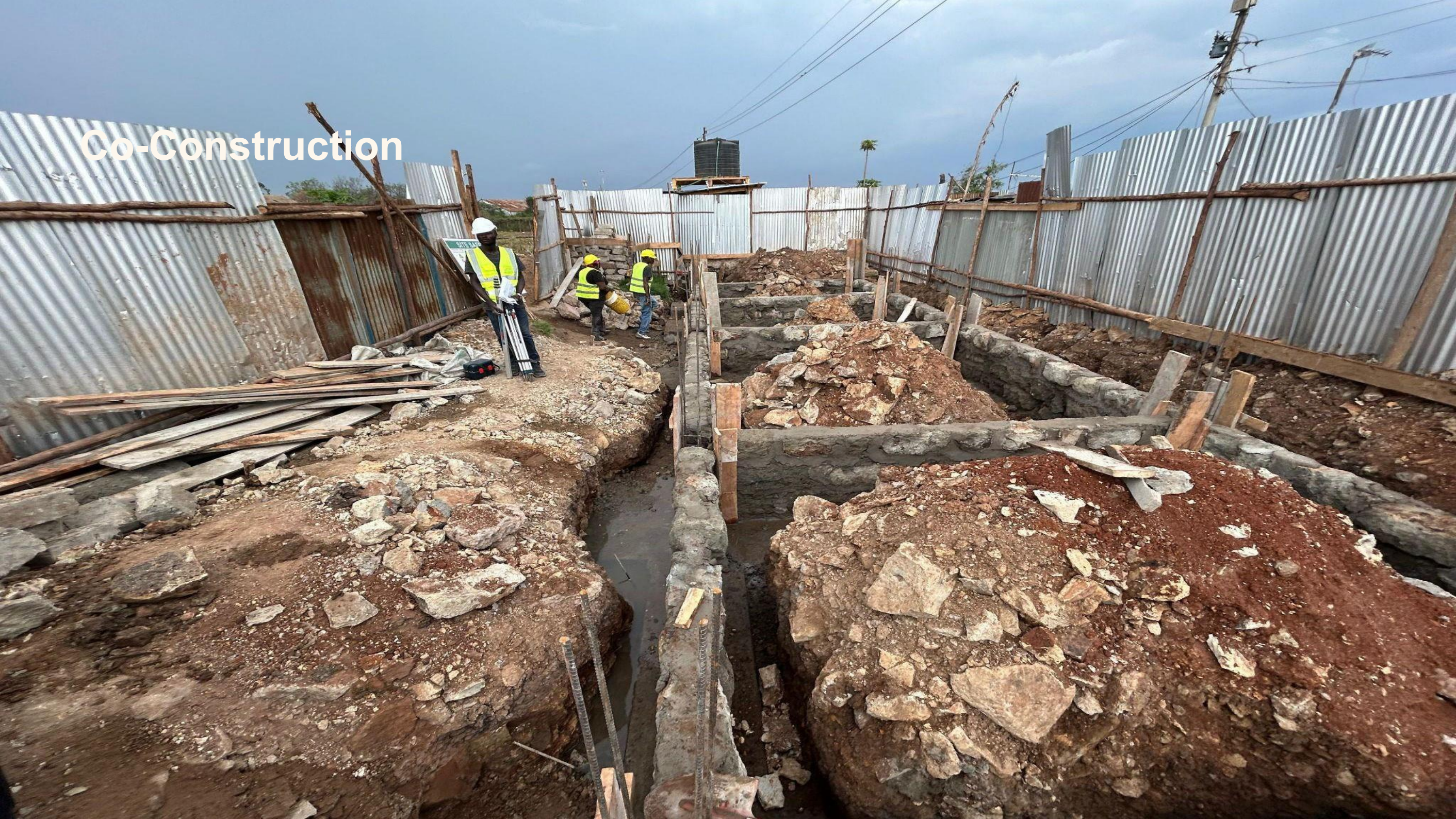
3 Kayole Soweto - Jacaranda



Kaeni Soba Project: before



Co-Construction



Co-Construction



Kaeni Soba Project: After



Kaeni Soba Project: After



Co-Construction



Kongo Soweto project: After



Kongo Soweto project: After



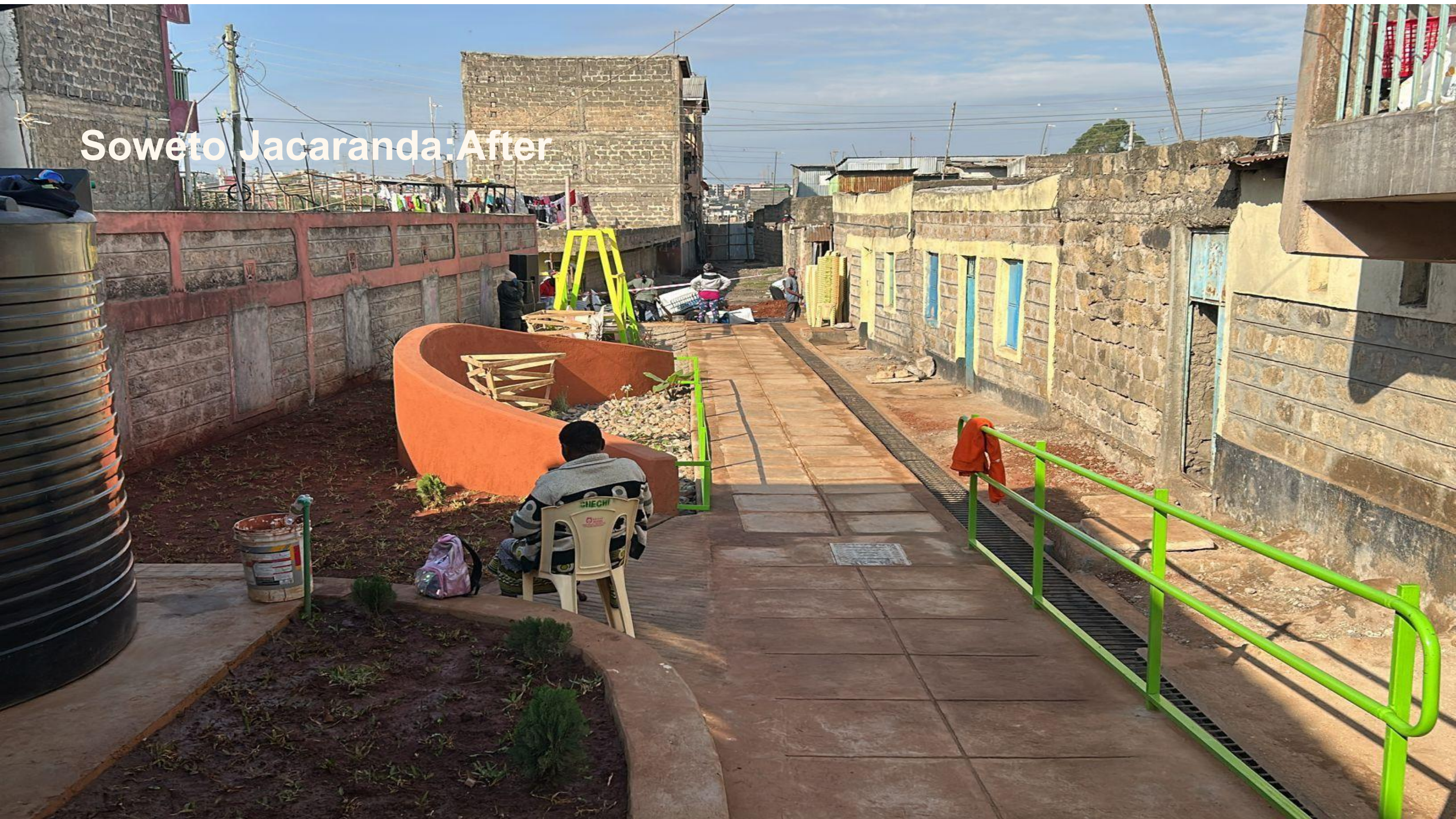
Soweto Jacaranda: before



Soweto Jacaranda:during



Soweto Jacaranda: After



Soweto Jacaranda After



projects

 01.

 02. ■ present - urban fabric initiative (UFI)

 03. ■ present continuous.....

rivers + people

Site

Projects:

Kibera

KPSP
01/02/03/04/05/06
07/08/09/10/11/12
St. Johns School NbS
Kibera Book House
Kibera Water
Usalama Motorcycle
Business
Missing Link Project
Bringing Bricks to Kibera

Mukuru

Bridge School NbS
Mukuru Sustainable
Design Academy
Mukuru Riverfront.
City Carton
Urban Fabric Initiative
Kahawa Soweto
Urban Fabric Initiative
Kayole Soweto
Urban Fabric Initiative

Partners:

Kibera

New Nairobi Dam
Community Group
Riverside Usafi Group
(RUG) Kibera United for
Our Needs (KUFON)
Andolo Bridge
Community Group
(ABC)
Vuma (Youth Group
Usalama Youth Group
St. Johns School
KURA

SHOFCO
Human Needs Project
MCA Gatwekera
Nairobi County Dept. of
Public Works
Ministry of Agriculture

Mukuru

Mukuru Youth Initiative
UN-Habitat
Akiba Mashinani Trust

Settlement

Projects:

Kibera Special Planning
Area
Learning from Mukuru
SPA
Mukuru Rivers and People
Plan
Kibera Rivers and People
Plan
Kayole-Soweto Rivers and
People Plan
Kayole Soweto Settlement
Study (KASS)
Integrated and Inclusive
Infrastructure Framework
for Kenya (3iF)

Partners:

Mathare Social Justice
Centre
Komb Green
Public Space Network
SwedBio
SDI-Kenya
IIED
City Carton SEC
Kahawa Soweto SEC
Kayole Soweto SEC
Arup East Africa
Architectural Association
of Kenya
African Centre for Cities

Watershed

Projects:

Emphasising Ecosystems,
Elevating People
(3EP), Ngong River
Watershed Assessment
Consortium, Nairobi River
Rehabilitation Consortium.

Partners:

Nairobi River Commission
Akiba Mashinani Trust
The Go Down Arts Centre
IUCN
ICLEI Africa
UNEP
UN-Habitat
World Resources Institute

*“One small community project,
no matter how nuanced or
layered, cannot, on it’s own, solve
problems that expand beyond the
neighbourhood”*

Odbert and Mulligan, 2013 Now Urbanism





INTEGRATED & INCLUSIVE INFRASTRUCTURE FRAMEWORK FOR INFORMAL SETTLEMENTS

[HOME](#)[3iF PRINCIPLES](#)[3iF TACTICS](#)[3iF BACKGROUND](#)[RESOURCES](#)[FEEDBACK](#)

THE FRAMEWORK

PEOPLE'S GUIDE

PRACTICE GUIDE

The Integrated and Inclusive Infrastructure Framework (3iF) is a pair of practical resource guidance that aims to maximise the integration and inclusivity benefits of various efforts to improve informal settlements in Kenya.

TWO GUIDES, ONE PURPOSE

[LEARN MORE](#)

What is 3iF?



**Integrated & Inclusive
Infrastructure Framework
for Kenya - 3iF**

**maximise the integration
and inclusivity benefits of
projects and learning**



Dallas

ASILI

Adaptation Solutions, Inclusive Locally-led Infrastructures



REPUBLIC OF KENYA



COUNTY GOVERNMENT
OF EMBU
The Land of Opportunities



Covenant of Mayors
in Sub-Saharan Africa



Co-funded by
the European Union



german
cooperation
DEUTSCHE ZUSAMMENARBEIT



SwedBio
A programme at Stockholm Resilience Centre

“Asili” means **Origins** and **Nature** in Kiswahili.

"To create a climate-resilient, safe,
accessible, biodiverse neighbourhood,
mitigating environmental hazards"



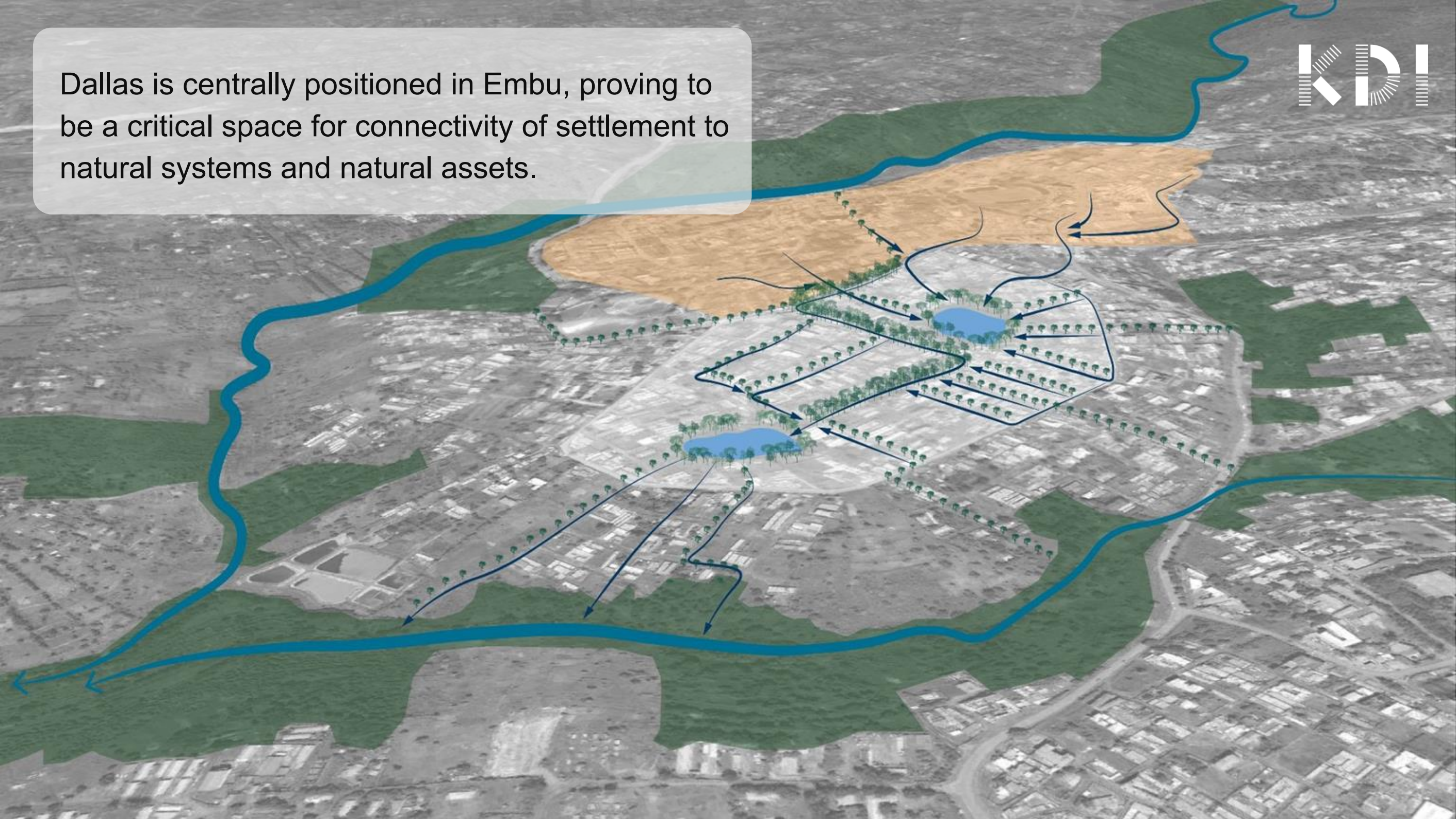
Handwritten signatures and names on the vision statement, including "A Noah", "Original", and "Locally-led Infrastructures".

For a
Climate-Re

For a
Climate-Resilient
Embu



Dallas is centrally positioned in Embu, proving to be a critical space for connectivity of settlement to natural systems and natural assets.

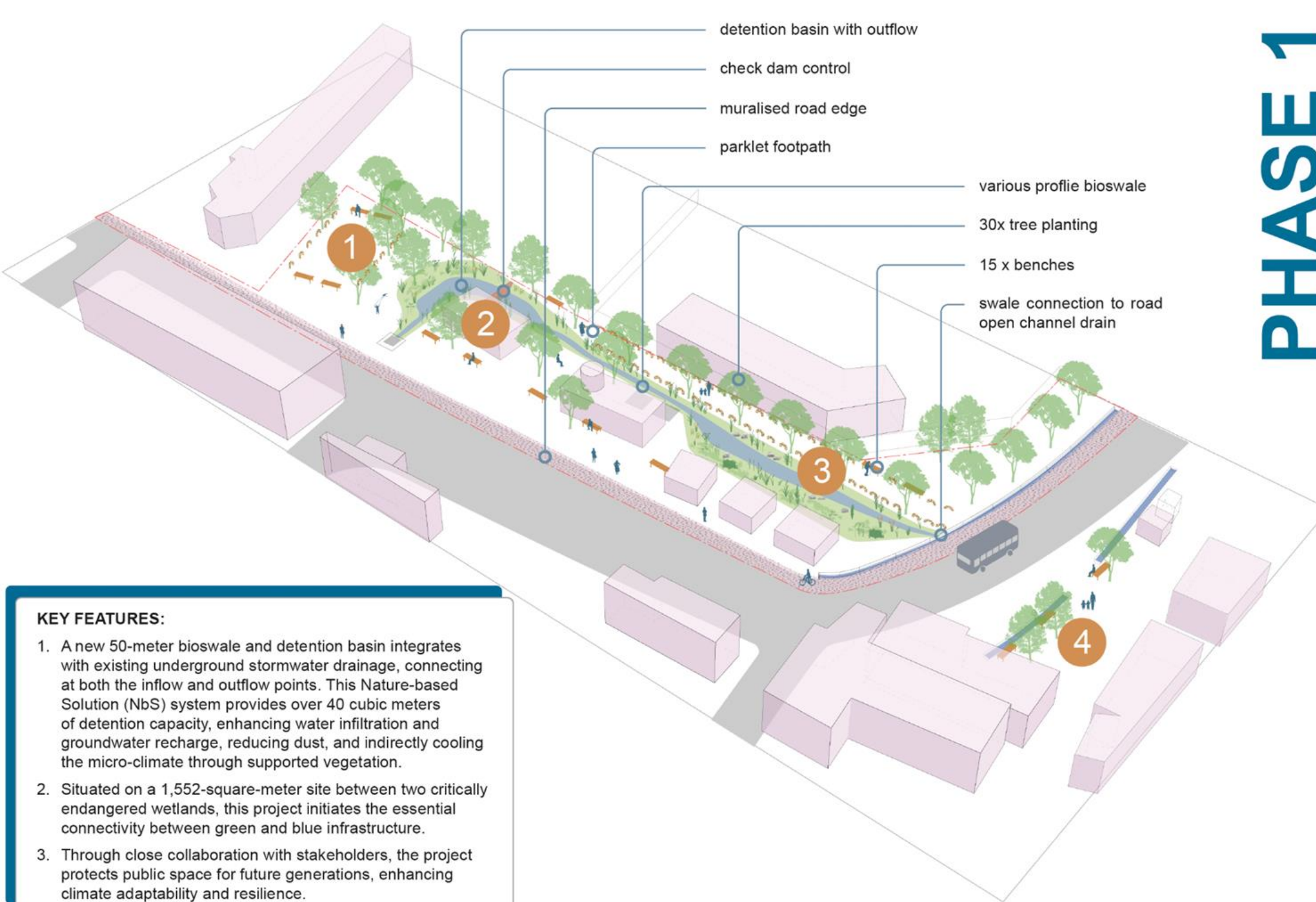


A Green Infrastructure Plan for Dallas Informal Settlement

Addressing **climate change** related environmental issues in the settlement, achieving the **community vision** as defined by Dallas resident priorities, including:

- Drainage & Flood Resilience
- Productive Public Space
- Safety and Accessibility

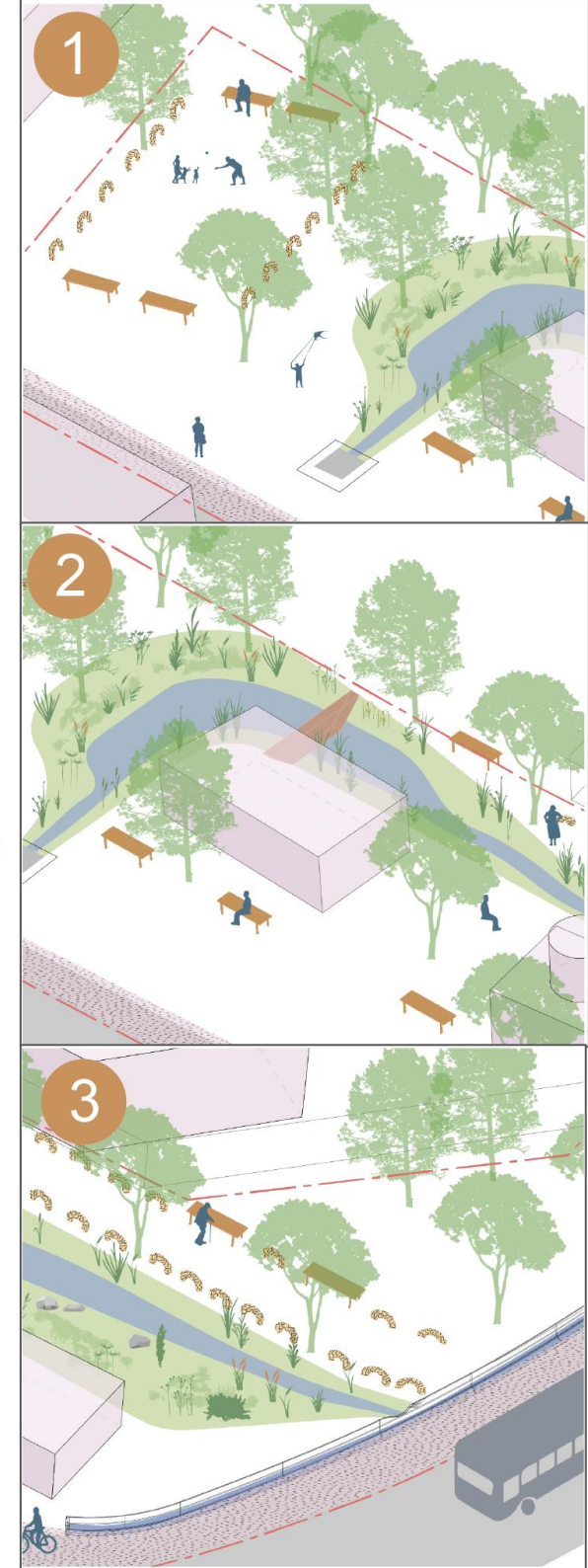




PHASE 1

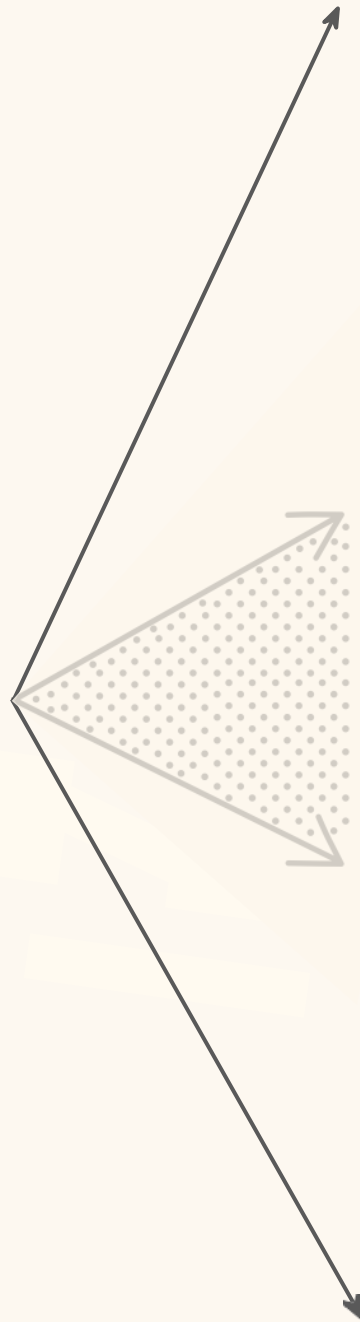
KEY FEATURES:

1. A new 50-meter bioswale and detention basin integrates with existing underground stormwater drainage, connecting at both the inflow and outflow points. This Nature-based Solution (NbS) system provides over 40 cubic meters of detention capacity, enhancing water infiltration and groundwater recharge, reducing dust, and indirectly cooling the micro-climate through supported vegetation.
2. Situated on a 1,552-square-meter site between two critically endangered wetlands, this project initiates the essential connectivity between green and blue infrastructure.
3. Through close collaboration with stakeholders, the project protects public space for future generations, enhancing climate adaptability and resilience.





KDI approach to landscape
circa 2006



private realm

public realm

these are the lines that must be blurred and
brought together to work towards a

just public realm:



the
pragmatism of
engineering,



the
environmental
attunement of
landscape,



the
persistence
of community
organizing,



the
formal beauty
of design,



and the
political
savvy of urban
planning.

reciprocal learning





"THE WORLD
NEEDS
DREAMERS
WHO DO".

by Kibera
talking.



Source: KDI



gracias
tack
asante
thank you

