# an alternative urban paradigm?

LOCAL KNOWLEDGE AND THE POWER OF COMMUNITY
AS A BASE FOR SUSTAINABLE DEVELOPMENT
IN MATHARE VALLEY, NAIROBI

MSC THESIS IN URBANISM - FINAL PRESENTATION

author EVA LABRUJERE student no. 4205979

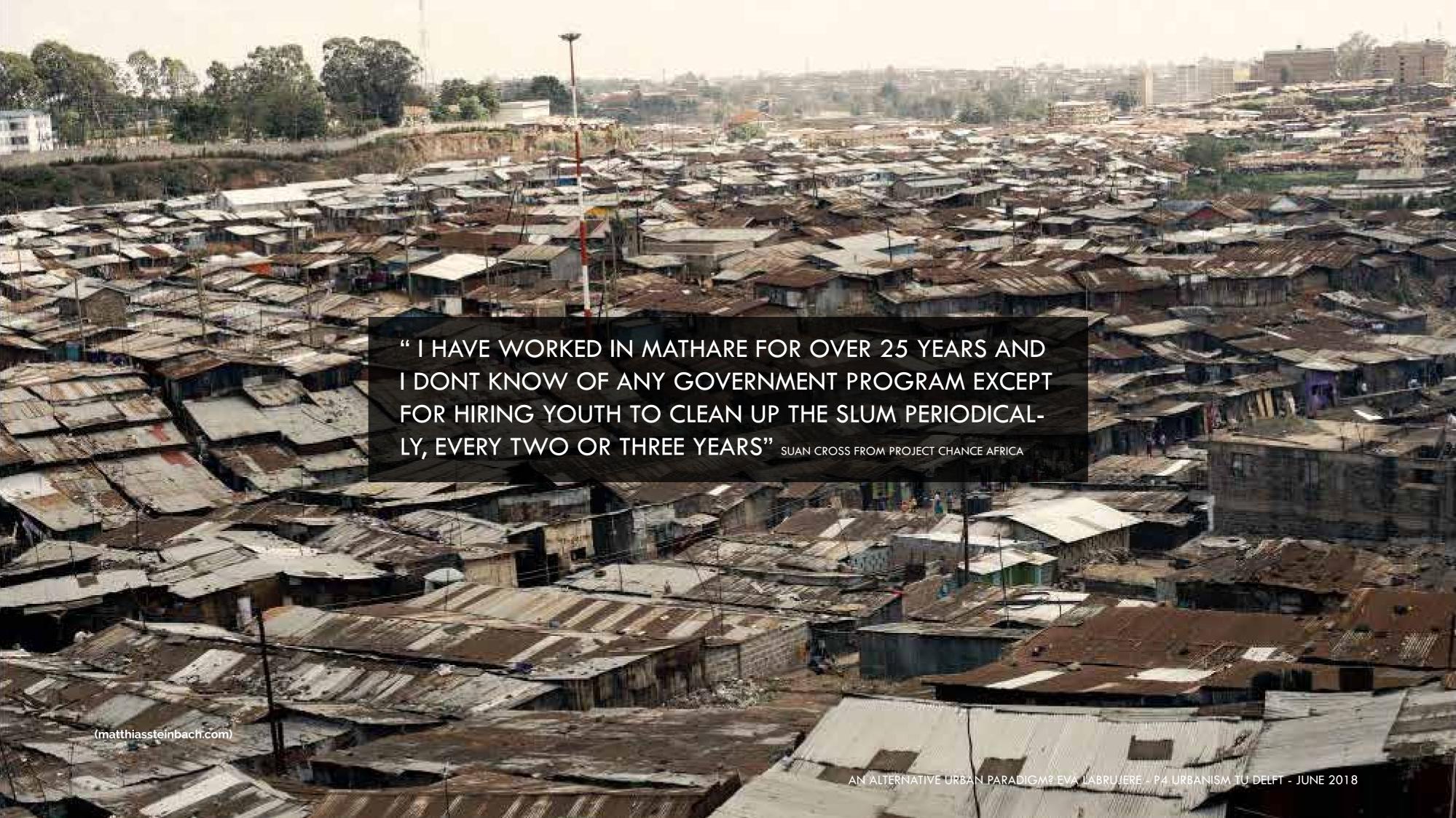
first supervisor **DR. ROBERTO ROCCO** second supervisor **DR. ARIE ROMEIN** 

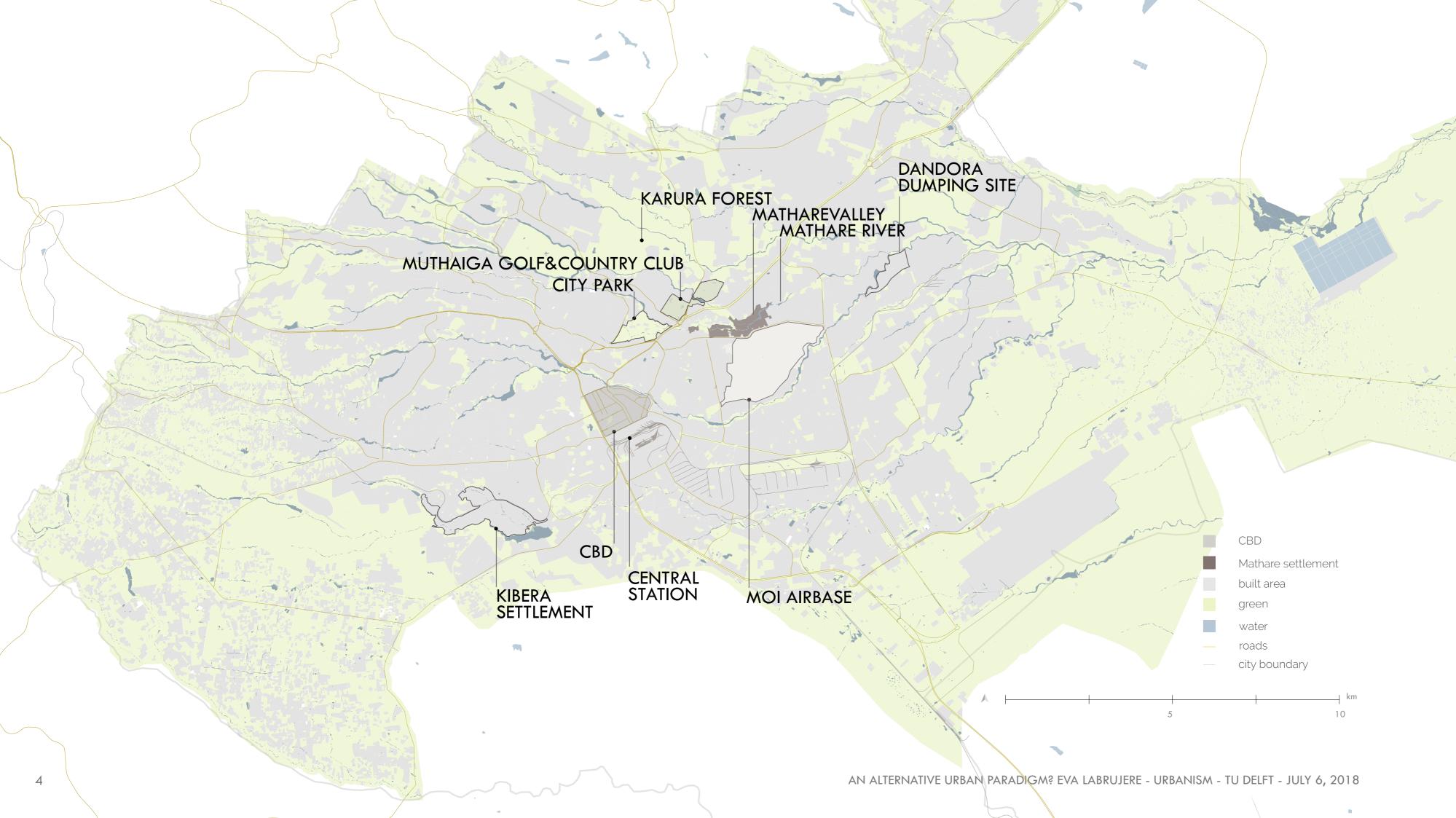
DELFT UNIVERSITY OF TECHNOLOGY FACULTY OF ARCHITECTURE AND THE BUILT ENVIRONMENT MSC. ARCHITECTURE, URBANISM AND BUILDING SCIENCES - DEPARTMENT OF URBANISM

research studio COMPLEX CITIES theme INCLUSIVE CITIES

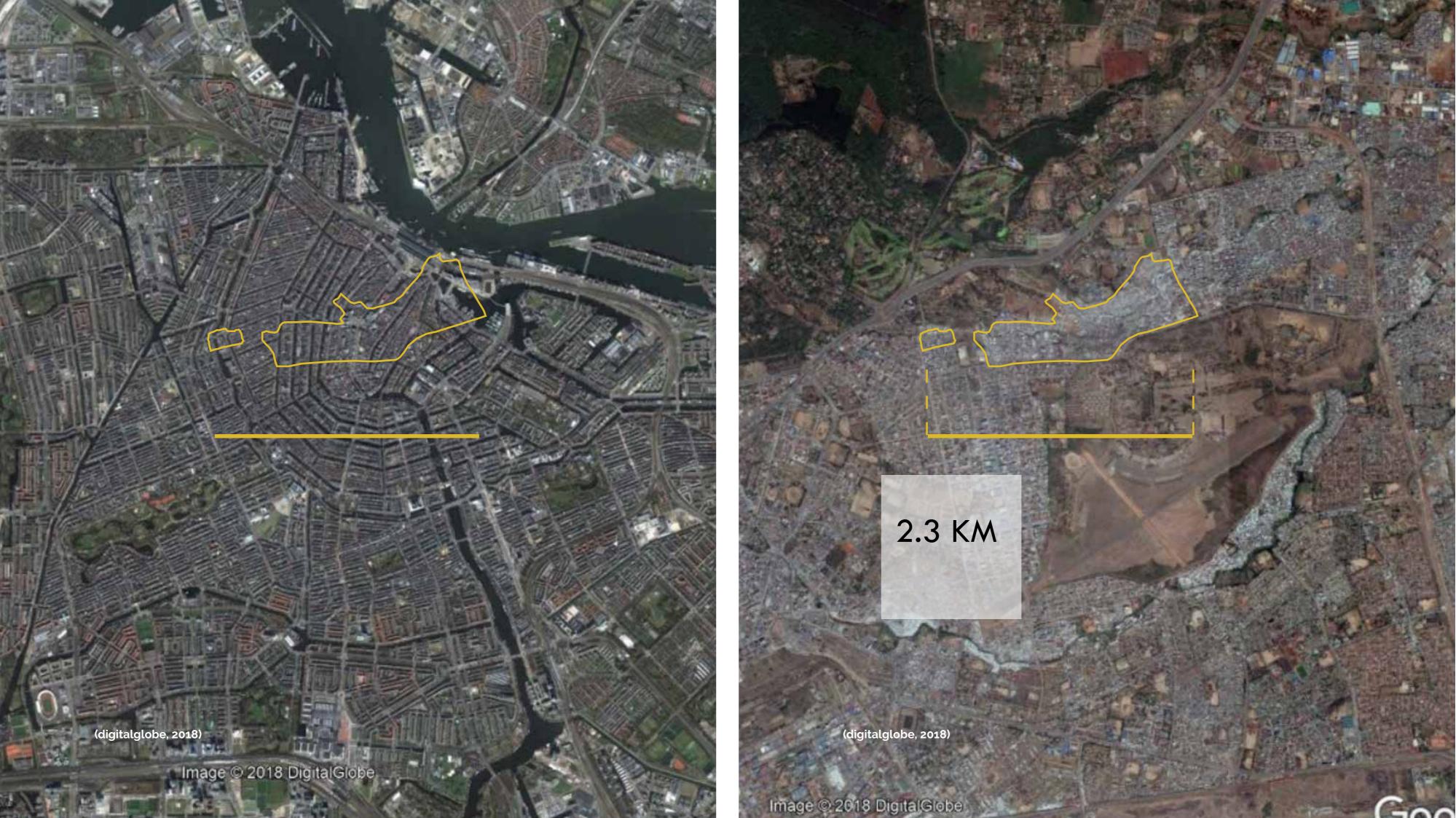
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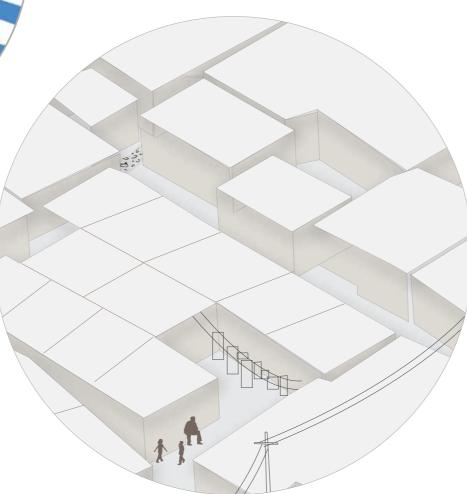




Oxfamnovib.nl



nation.co.ke/FILE





Readingspots.org

#### content

#### content

1234contextanalysisstrategic f/wreflectionproblem statementconclusionsstrategic layersproject definitionSL1 - co-operative comm.<br/>SL4 - public space network<br/>site design

context analysis strategic f/w reflection

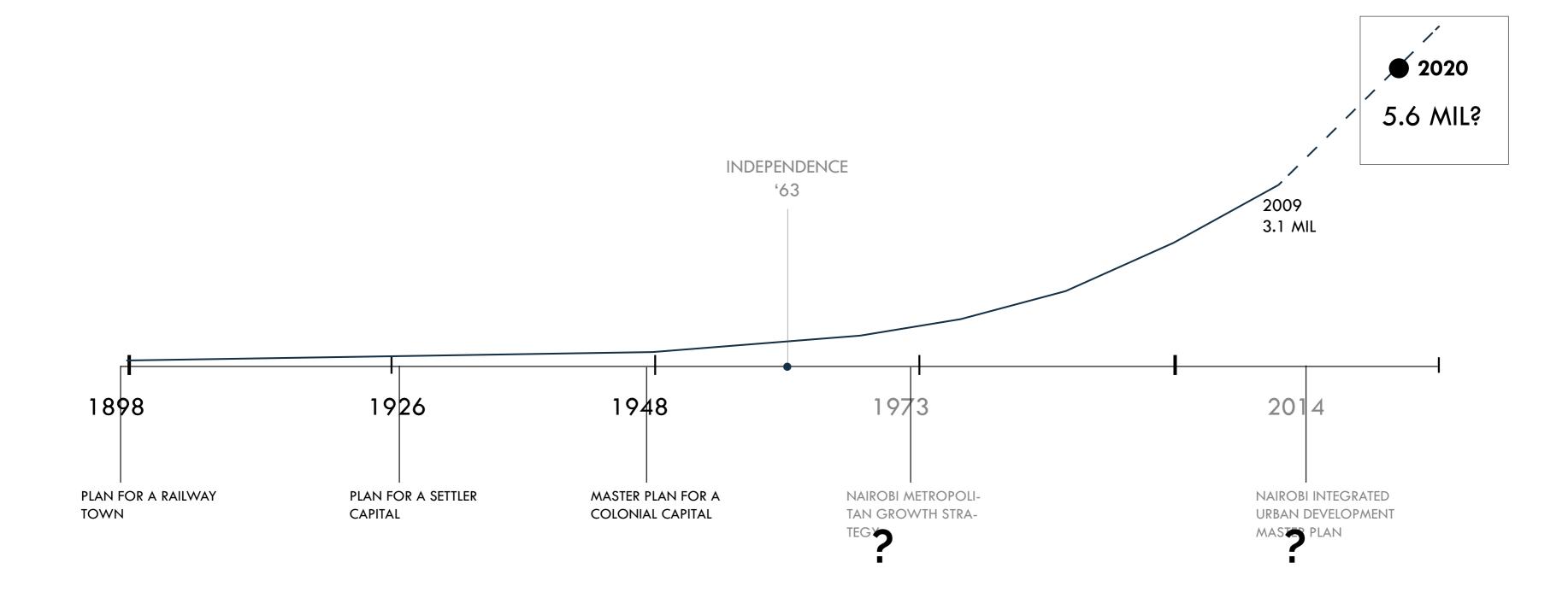
problem statement conclusions strategic layers

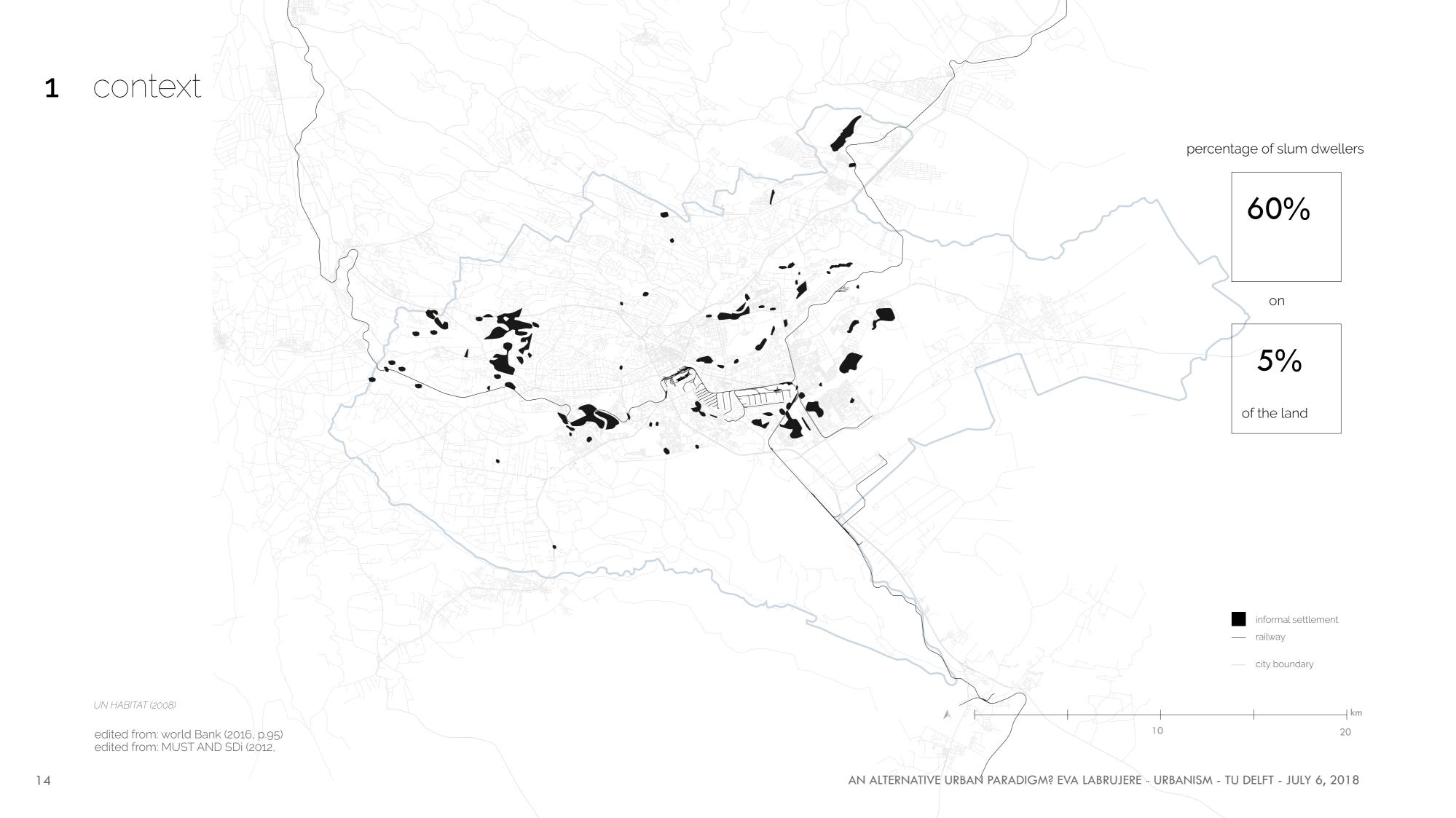
project definition SL1 - co-operative comm.
SL4 - public space network
site design

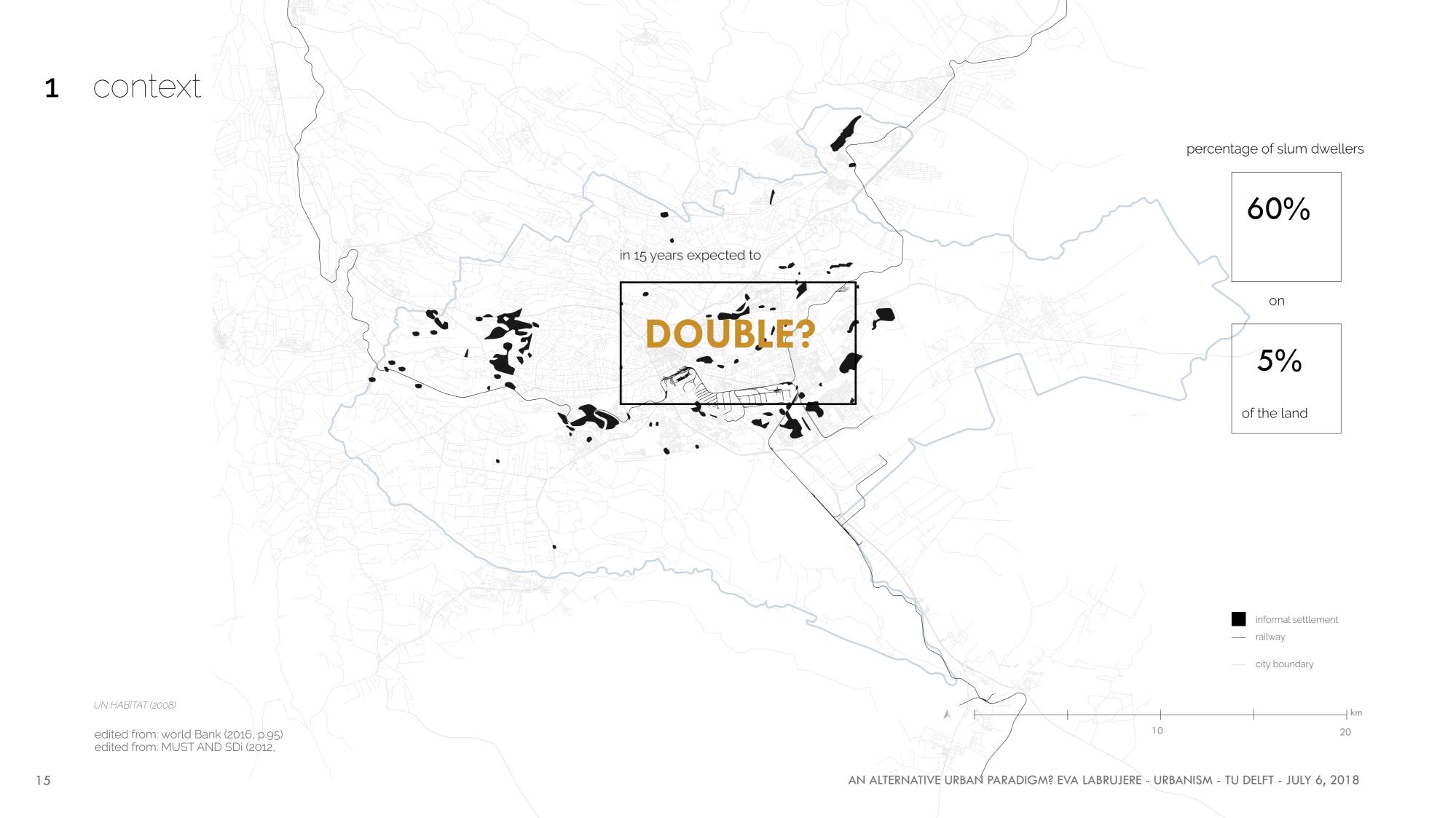


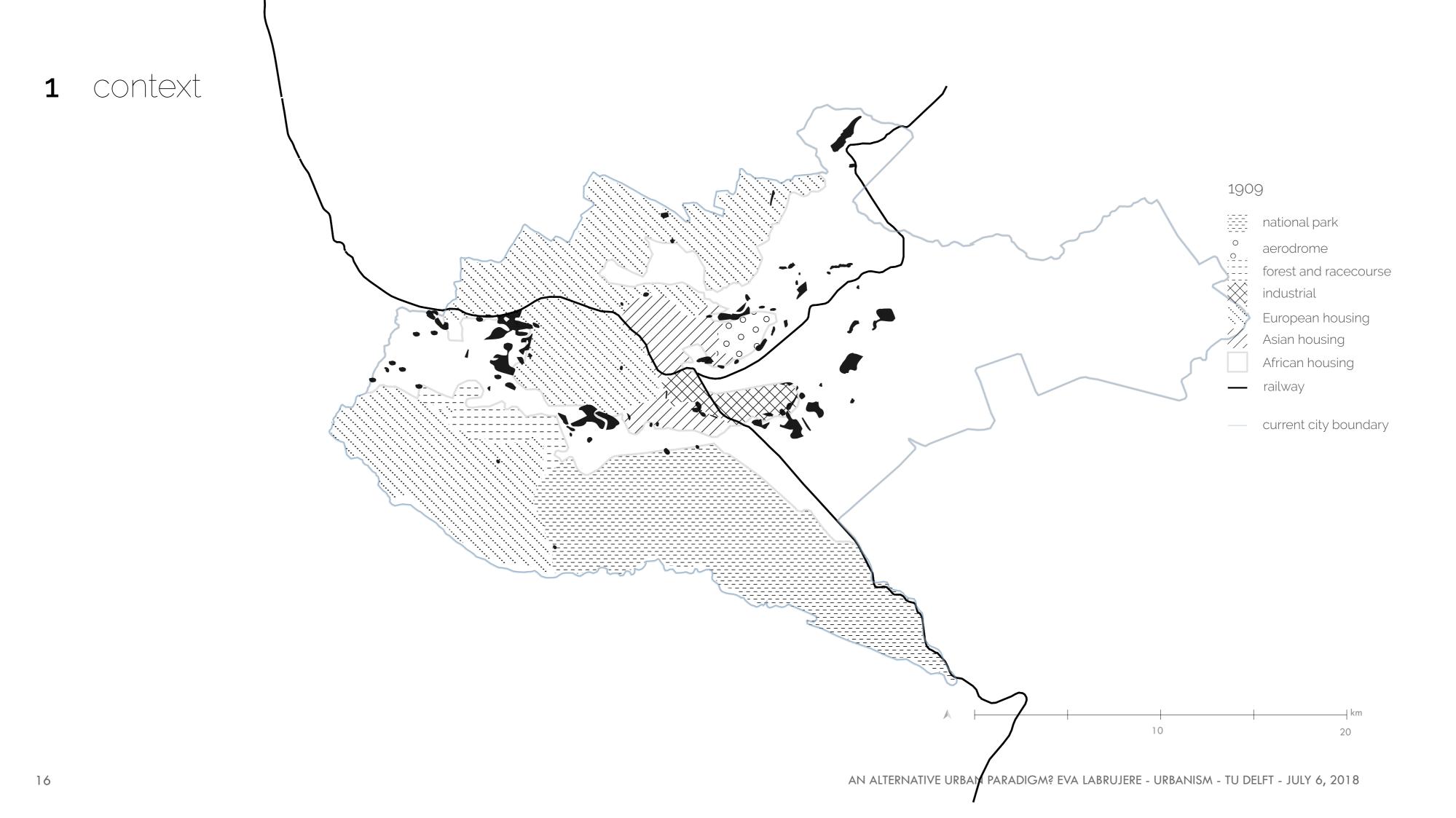
UNDESA, (2014) The United Nations World Urbanization Prospects

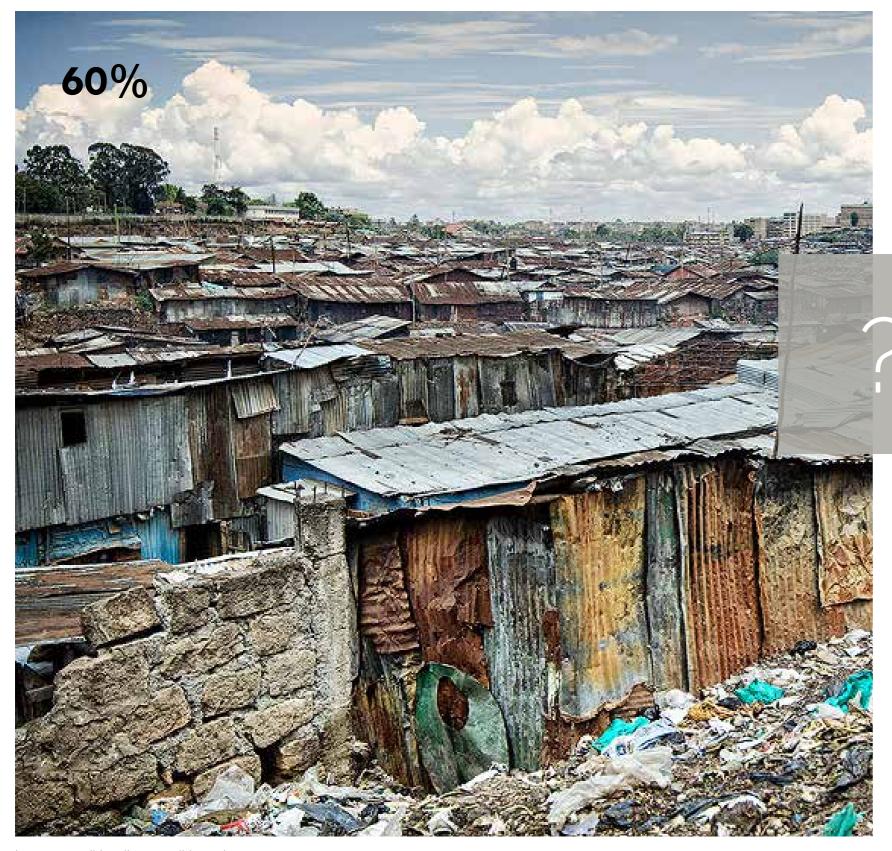
edited from (d-maps.com, 2017) edited from (freevectormaps.com, 2017)

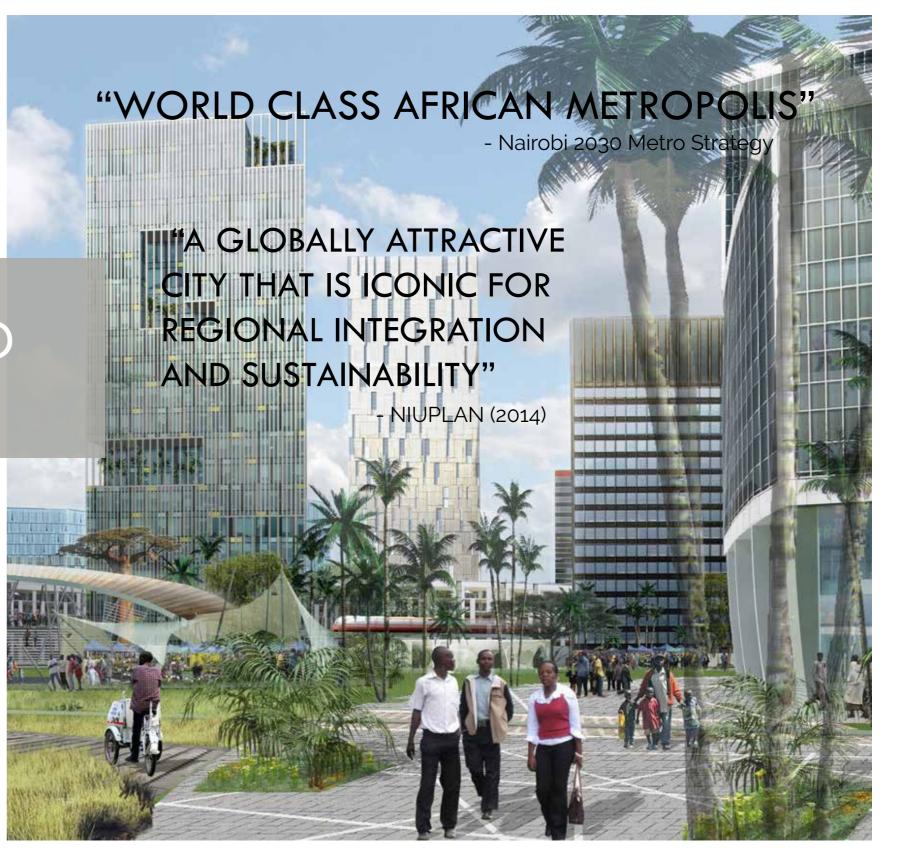












https://en.wikipedia.org/wiki/Mathare https://dreamcitieskenya.wordpress.com/2013/04/08/henning-larsen/



KIBERA SOWETO EAST, NAIROBI nation.co.ke/FILE



SAO PAULO, BRAZIL citiesalliance.org



KUFUR AQAB, EAST JERUSALEM Grassroots Jerusalem

**KENSUP** 

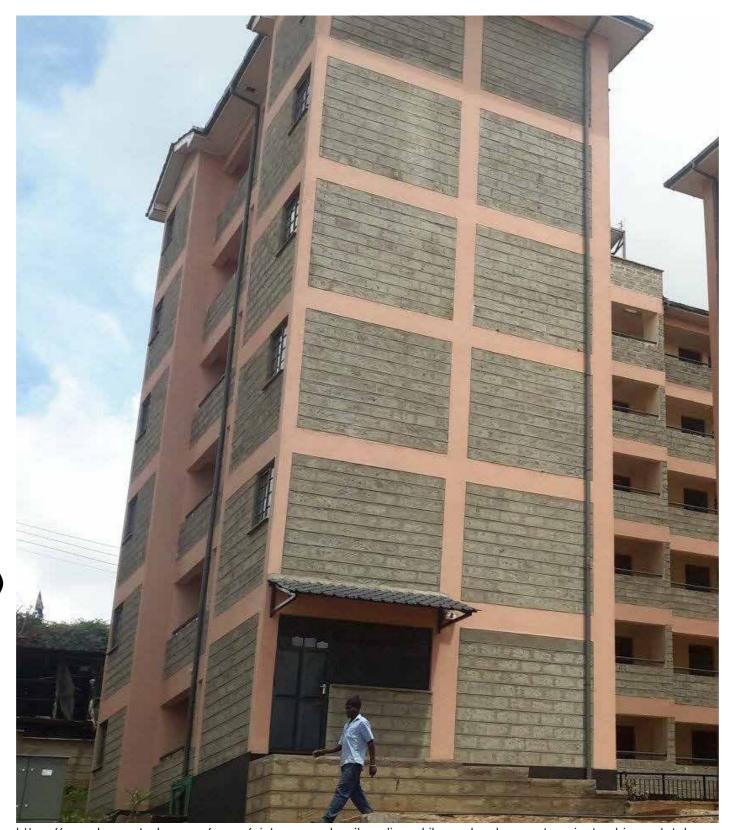
Kenya Slum Upgrading Programme - GOK and UN-HABITAT

practical implications of participatory approaches

do not respond to existing socio-economic networks

do not meet resident's needs (culturally inappropriate)

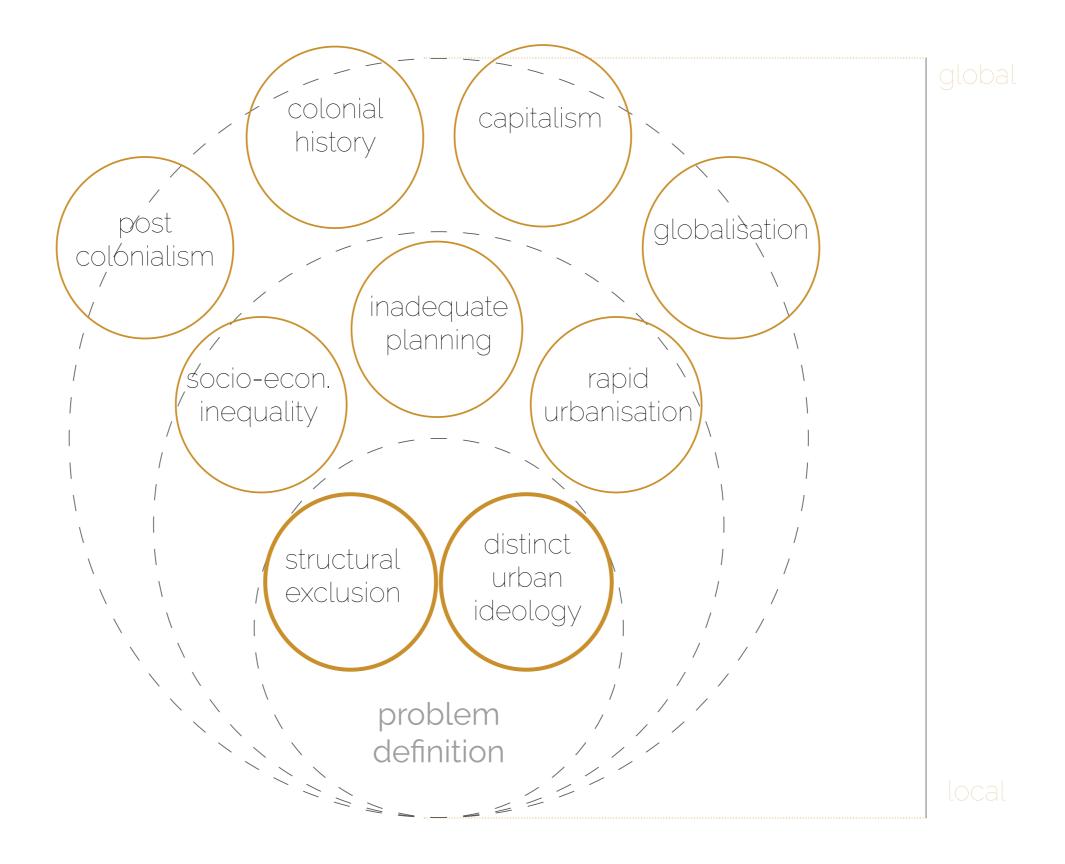
lack of quality (buildings or technical facilities)





https://www.kenya-today.com/news/picture-speak-raila-odinga-kibera-development-projects-shines-statehouse-propaganda-defeated

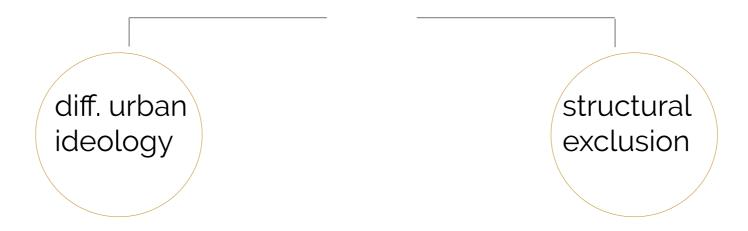
## 1 problem statement



1 problem statement

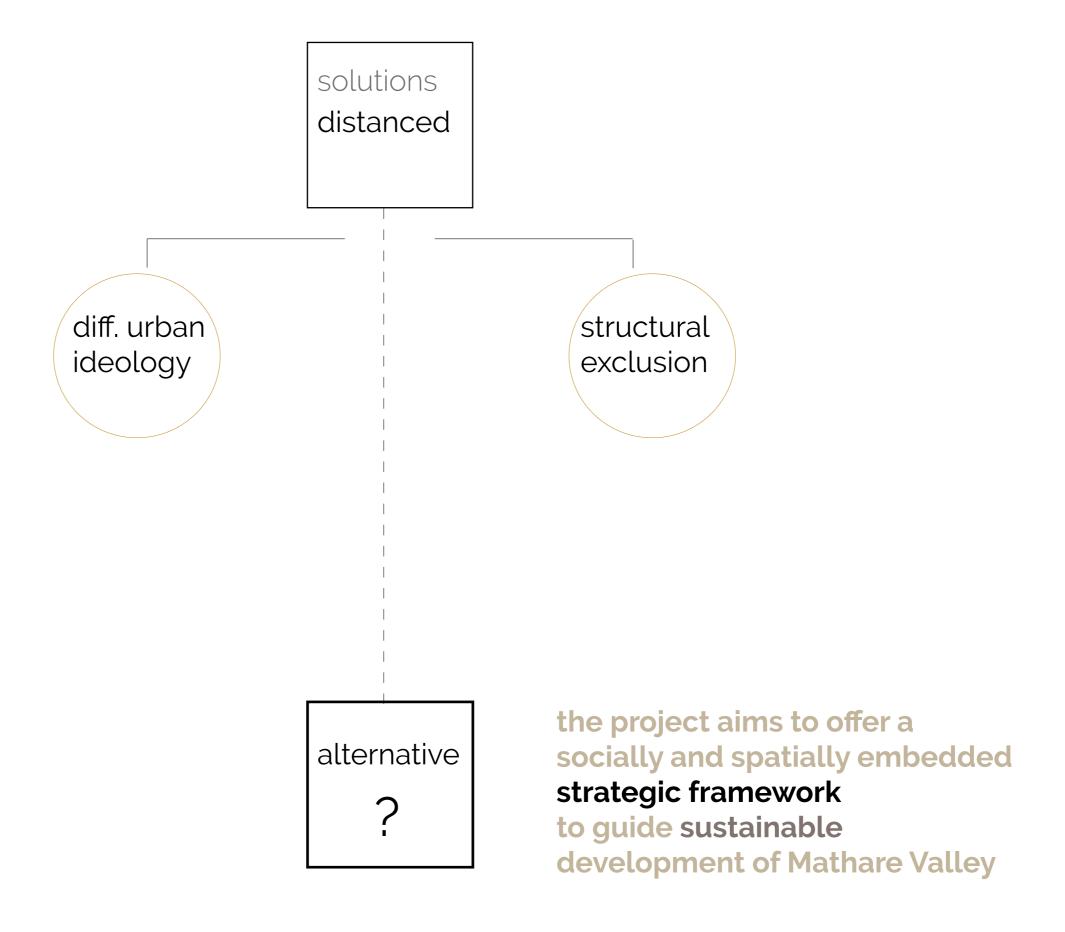
... current endeavours fail to recognise the potential of informal views and processes and the understanding of local needs (...) This results in socio-culturally and spatially distanced solutions that do not achieve sustainable change.

solutions distanced

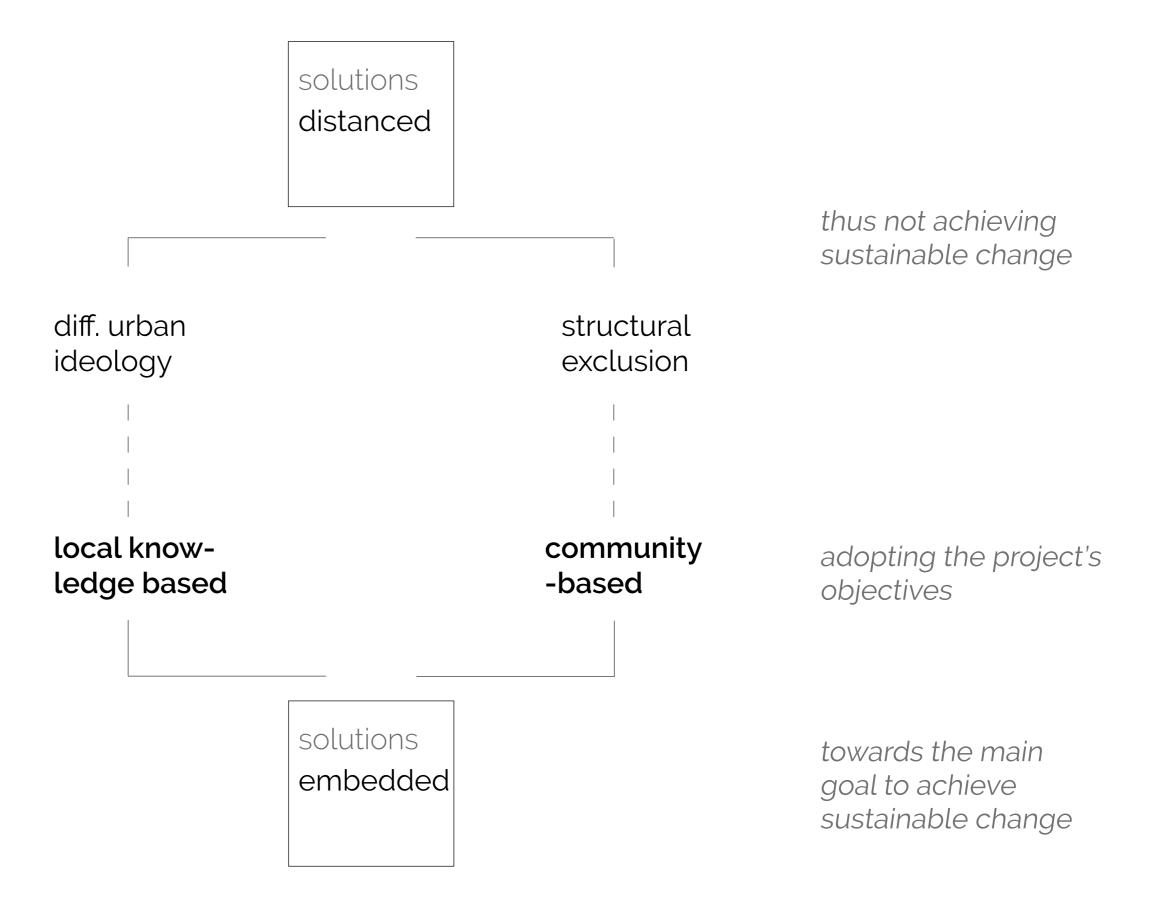


thus not achieving sustainable change

## 1 project definition



# 1 project definition



## 1 project definition

local knowledge based community -based

'subaltern urbanism' (Roy, 2011)
'morphology of resistance' (Varley, 2013).
'the reversal of the colonial model' (Brillembourg, 2004)

problem statement

project definition

analysis

conclusions

2

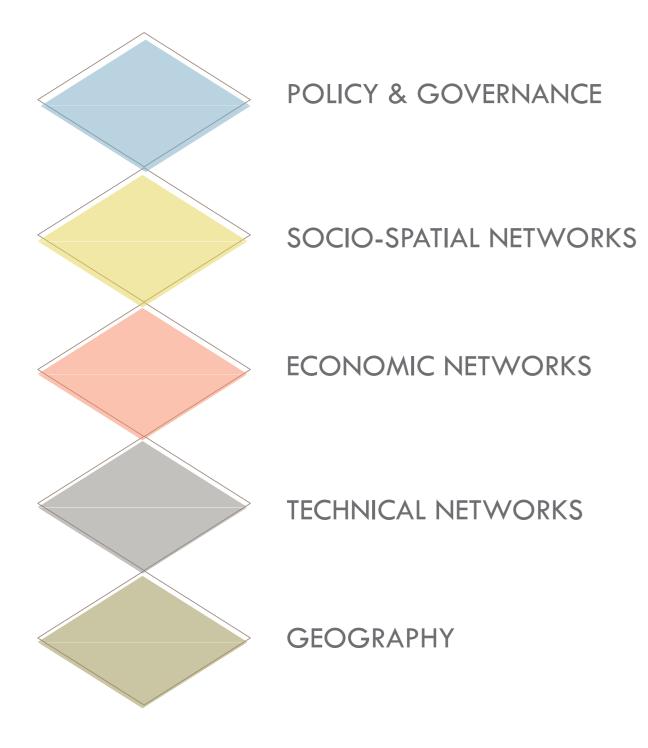
strategic f/w strategic layers

3

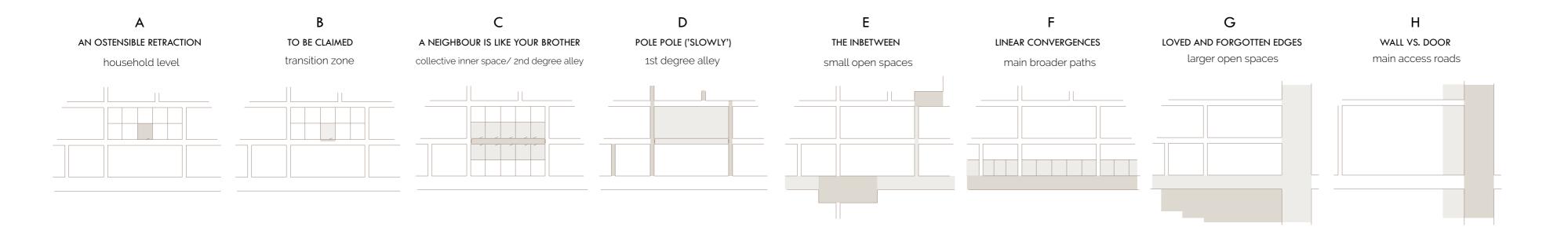
SL1 - co-operative comm.
SL4 - public space network
site design

4

reflection







PRIVATE

LOCAL KNOWLEDGE

"internal zoning system of implicit arrangements of spaces, demands upon spaces, and responsibilities over spaces "









ZONE A ZONE B ZONE C ZONE D

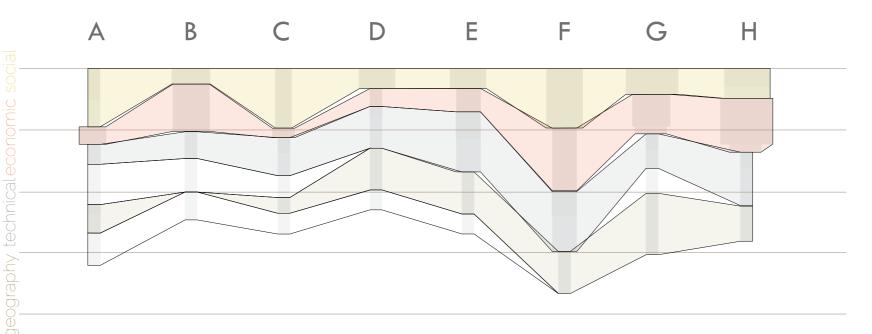




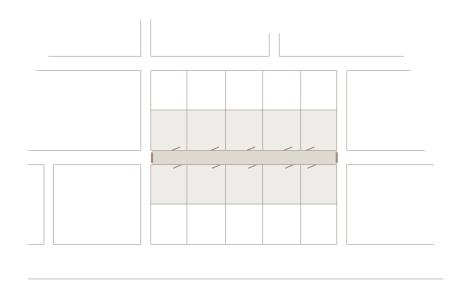


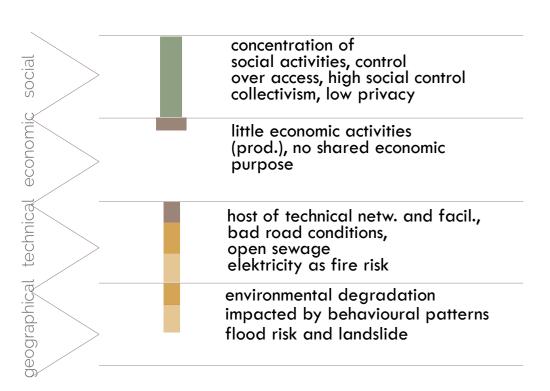


ZONE E ZONE F ZONE G ZONE H

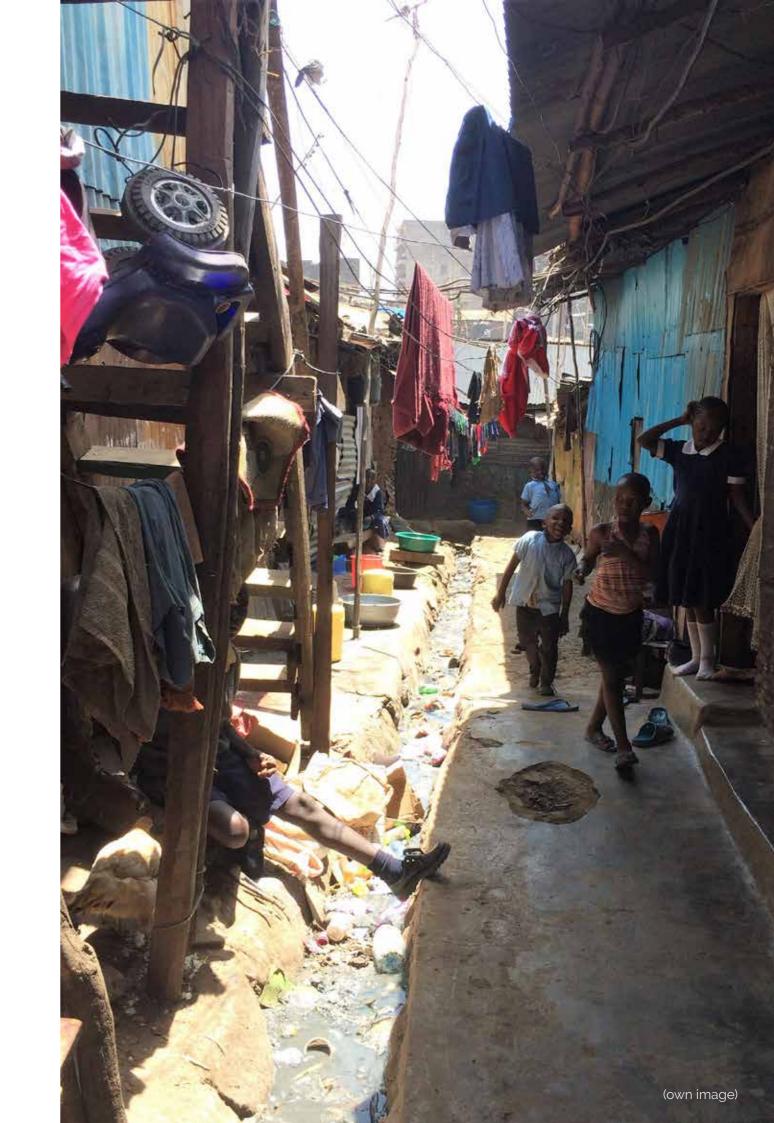


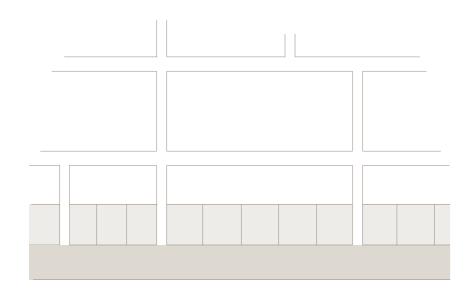
PRESENCE OF THE LAYERS
THROUGHOUT THE ZONES





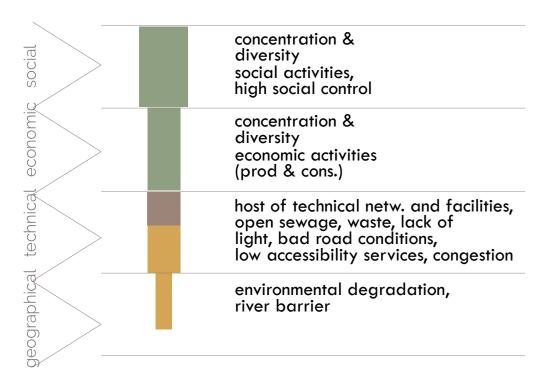
# ZONE C A NEIGHBOUR IS LIKE YOUR BROTHER shared inner space





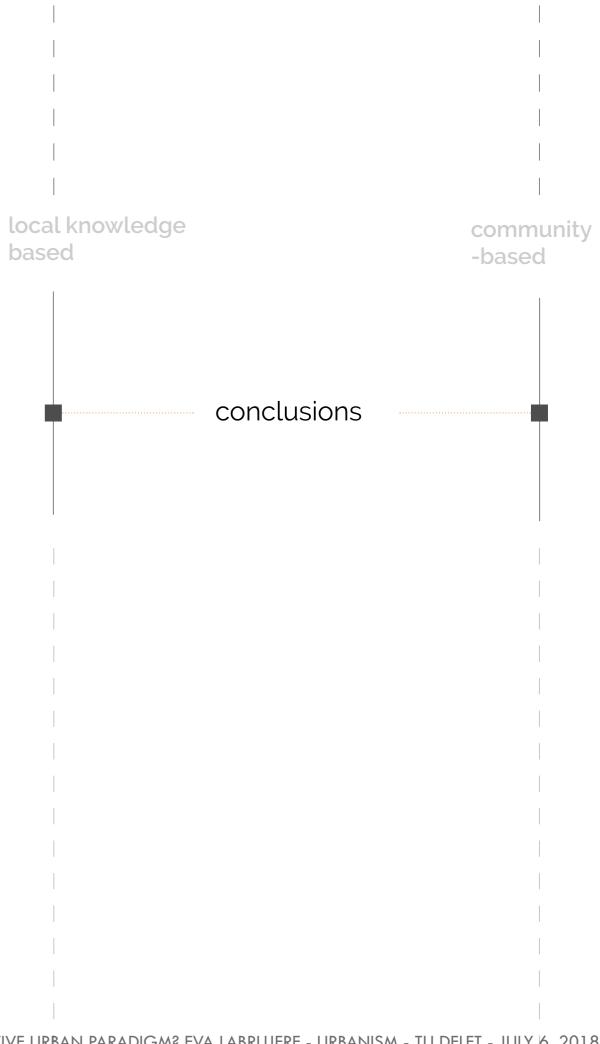






ZONE F
LINEAR CONVERGENCES
inner mainstreets





C-B

oppresive factors (internal & external) impedes peoples' growth and ability to stand for rights



C-B

oppresive factors (internal & external) impedes peoples' growth and ability to stand for rights lack of access to finance, space, and support/knowledge

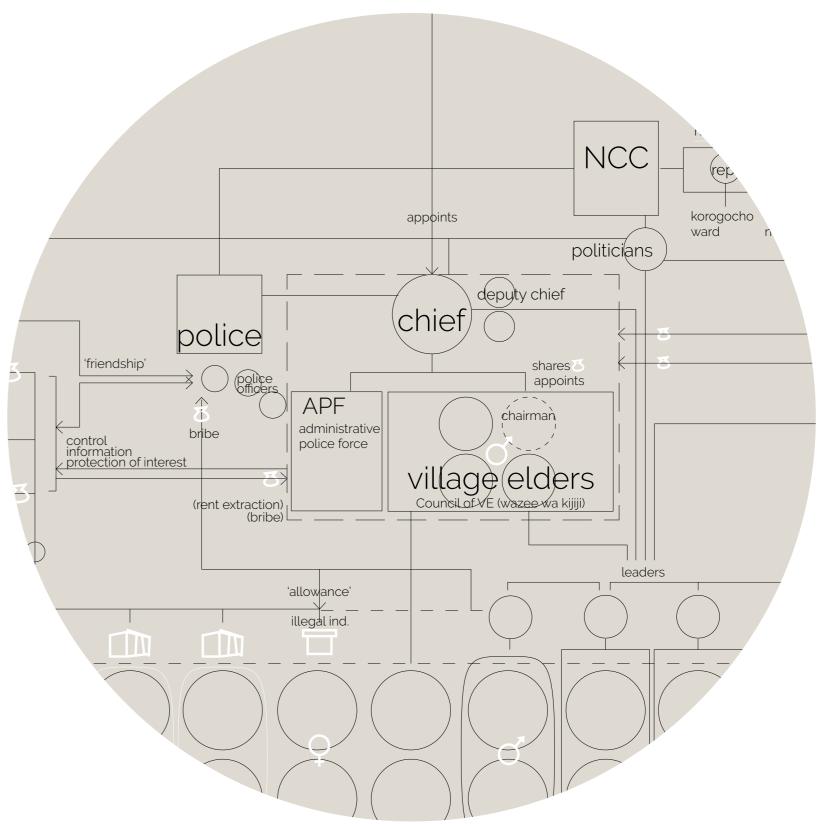


(nbv.co.uk/events-networking/access-finance-workshop/)

(commons.wikimedia.org/wiki/File:The\_Co-operative\_Bank\_-\_Ealing\_(9415463884).jpg.org)

LK V

local power distributions



(own image)

LK

local power distributions

ownership as potential (existing social ties)



(own image)

#### 2 conclusions

LK

local power distributions

ownership as potential (existing social ties) social & economic networks threatened by technical and geographical



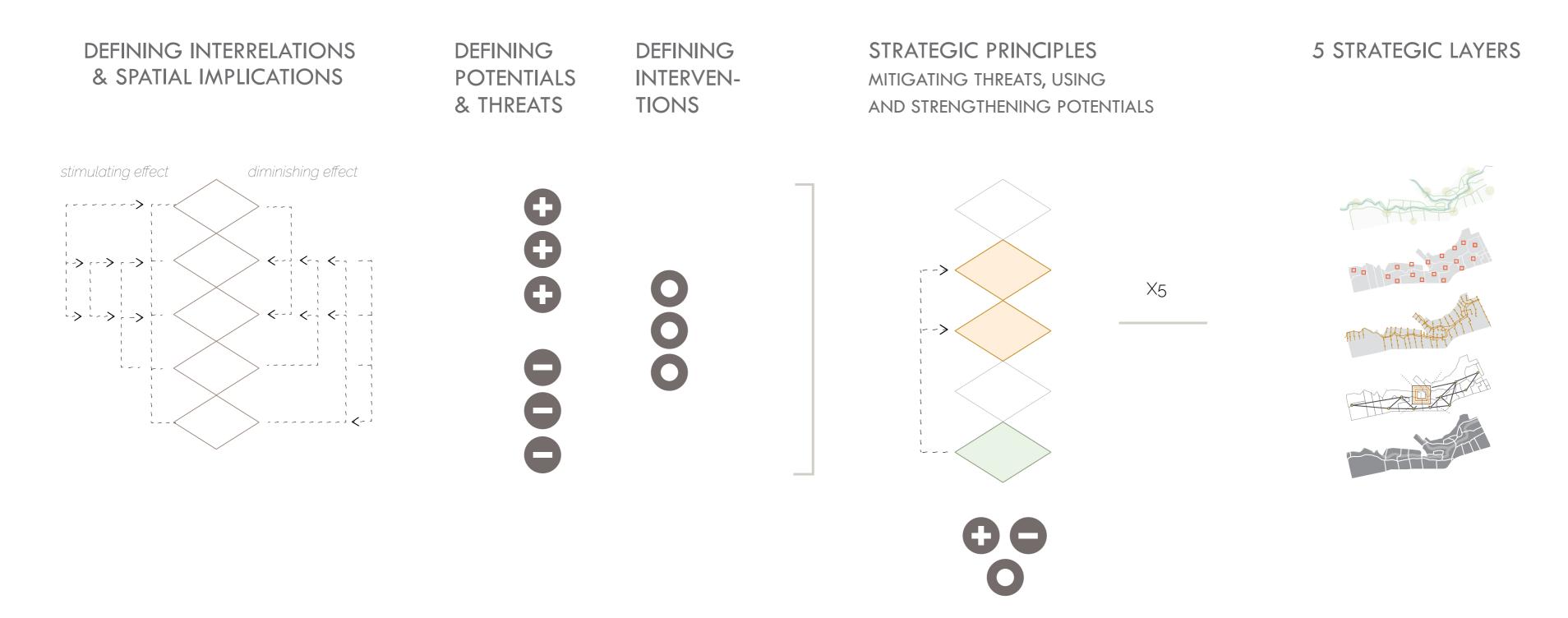
(the storyteller studios) (own images)

context analysis strategic f/w reflection

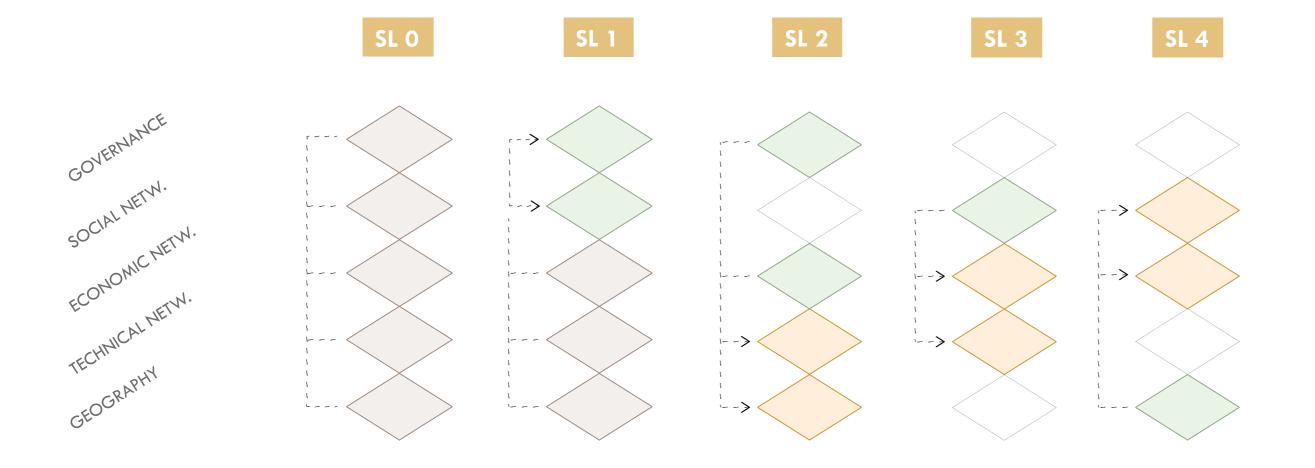
problem statement conclusions strategic layers

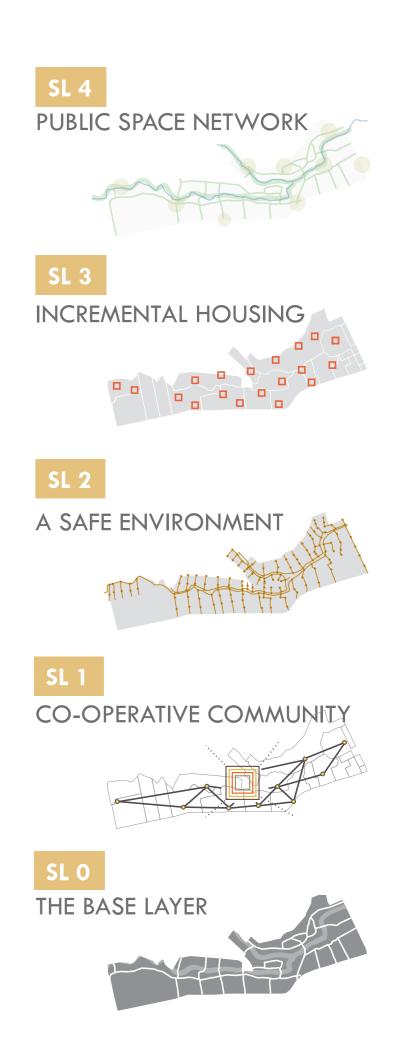
project definition SL1 - co-operative comm.
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#### 3 strategic framework



#### 3 strategic framework





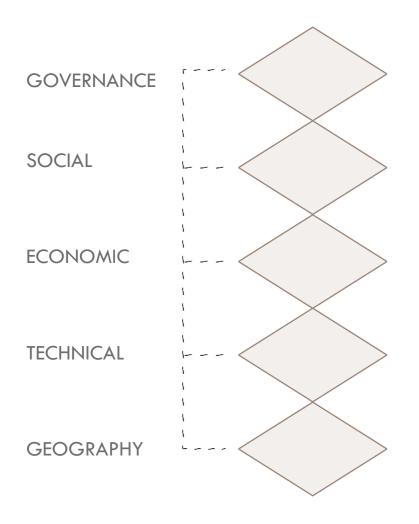
facilitate layer

mitigate threats

use potential of layer

SL O

#### THE BASE





facilitate layer networks



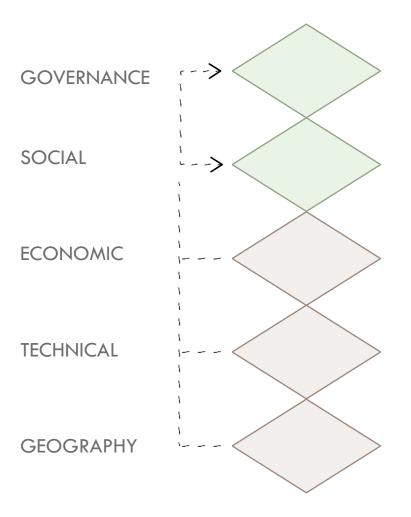
mitigate threats



use potential of layer/networks



### SL 1 CO-OPERATIVE COMMUNITY





facilitate layer networks



mitigate threats

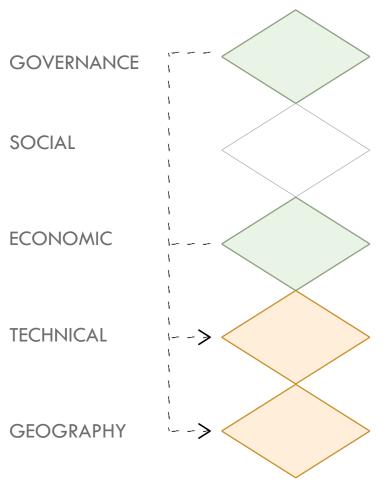


use potential of layer/networks



**SL 2** 

#### A SAFE ENVIRONMENT





facilitate layer networks



mitigate threats



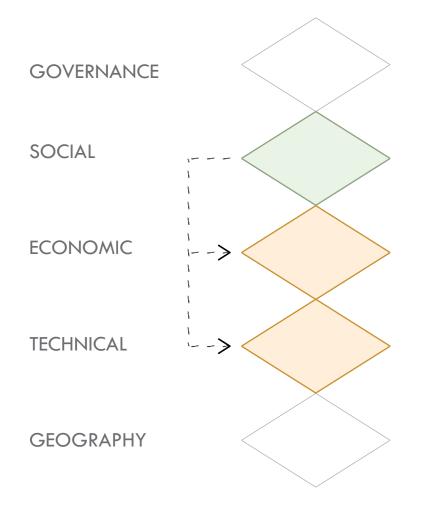
use potential of layer/networks

(own image)
(Thesparkproject.com)
(Rumi Consultancy/World Bank)



**SL** 3

#### **INCREMENTAL HOUSING**





facilitate layer networks



mitigate threats



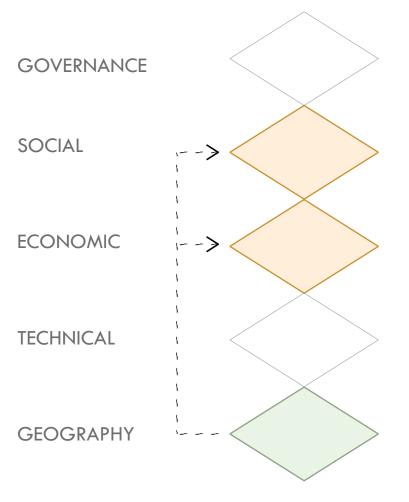
use potential of layer/networks





**SL 4** 

#### **PUBLIC SPACE NETWORK**





facilitate layer networks



mitigate threats



use potential of layer/networks

(ChristianAidImages)
(apolitical.co)
(La Farge Holcim Foundation)





## SL 1 CO-OPERATIVE COMMUNITY





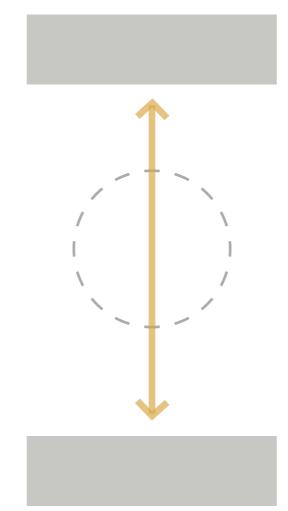


#### SL 1

#### **CO-OPERATIVE COMMUNITY**

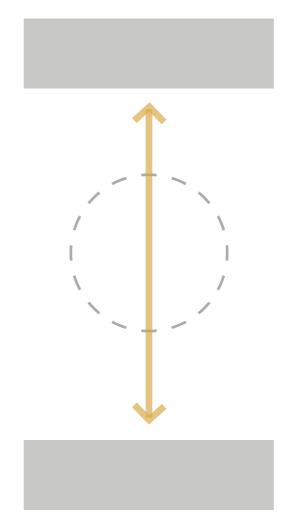
#### cooperative principles

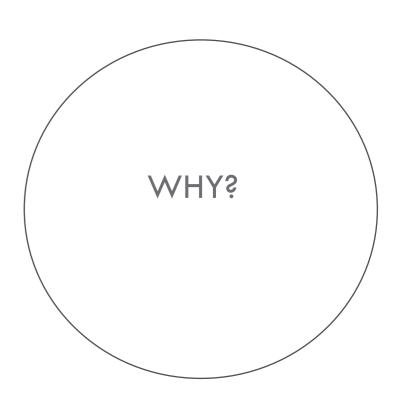
- voluntary and open membership
- democratic member control
- member economic participation
- autonomy and independence
- education, training and information
- cooperation among cooperatives
- concern for community



(Wanyama, 2014)

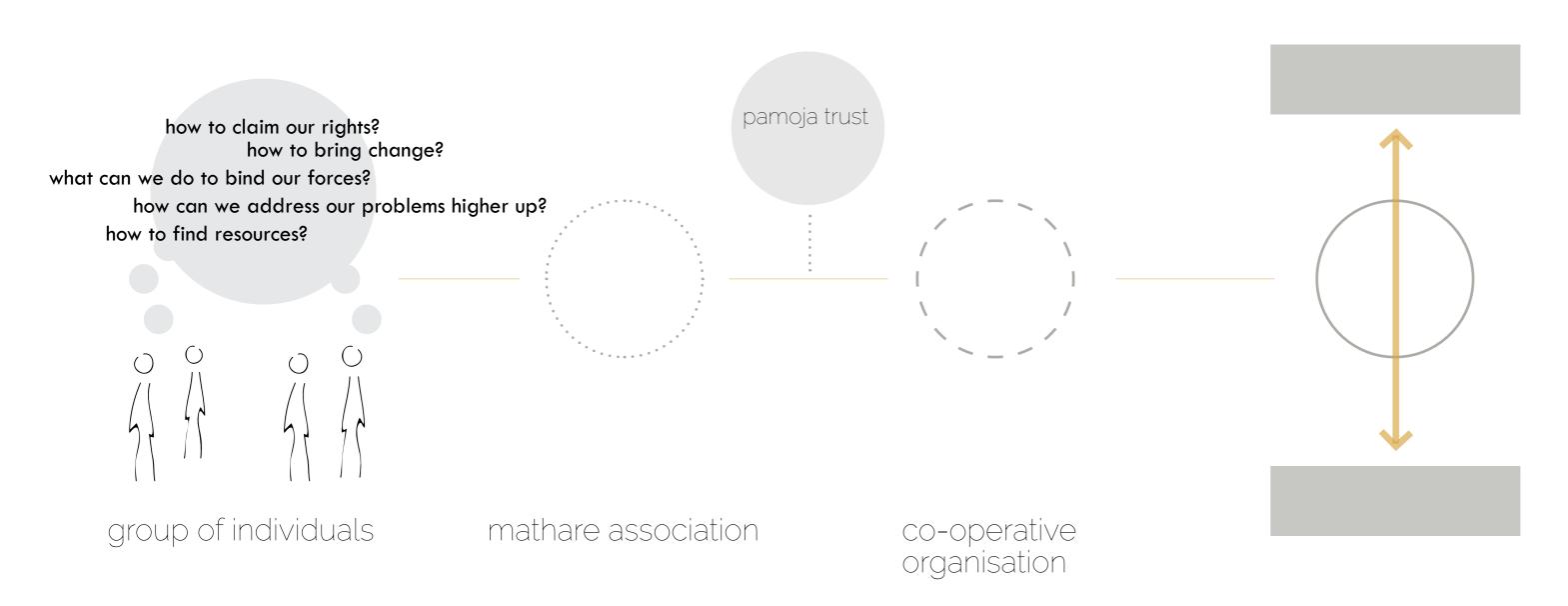
## SL 1 CO-OPERATIVE COMMUNITY

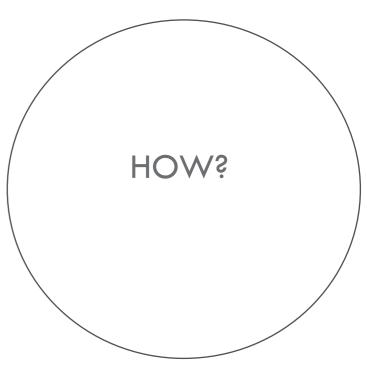




SL 1

#### **CO-OPERATIVE COMMUNITY**





#### **CO-OPERATIVE COMMUNITY**



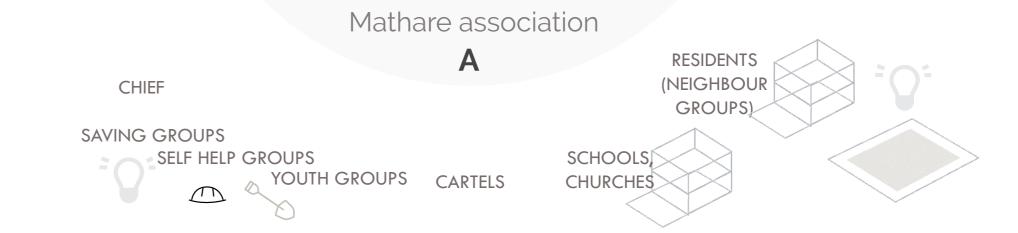
## MULTI-PURPOSE CO-OPERATIVE

Support Comm. Land finance & & Coor-Trust (CLT) credit dination facility Point C B D

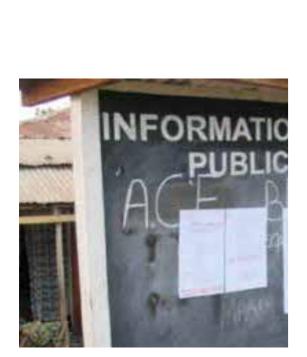
Community empowerment

Communication & Inf. Platform Ε

space (housing & land) finance knowledge



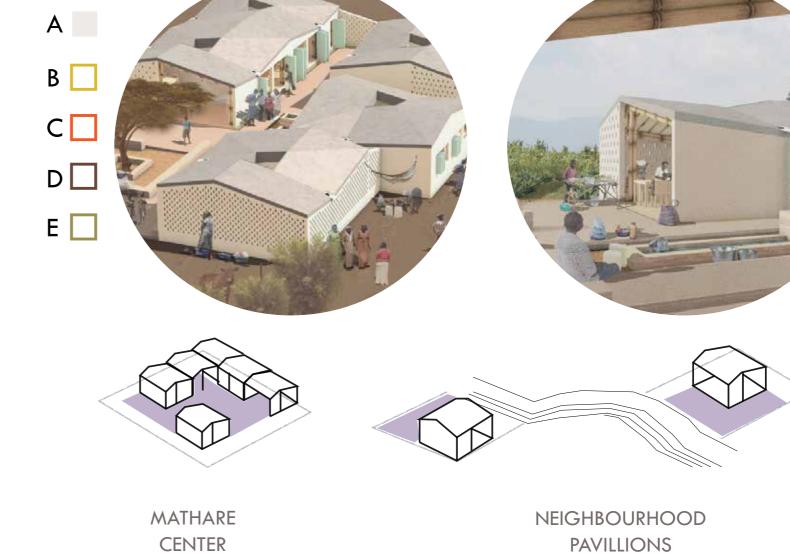
#### **CO-OPERATIVE COMMUNITY**















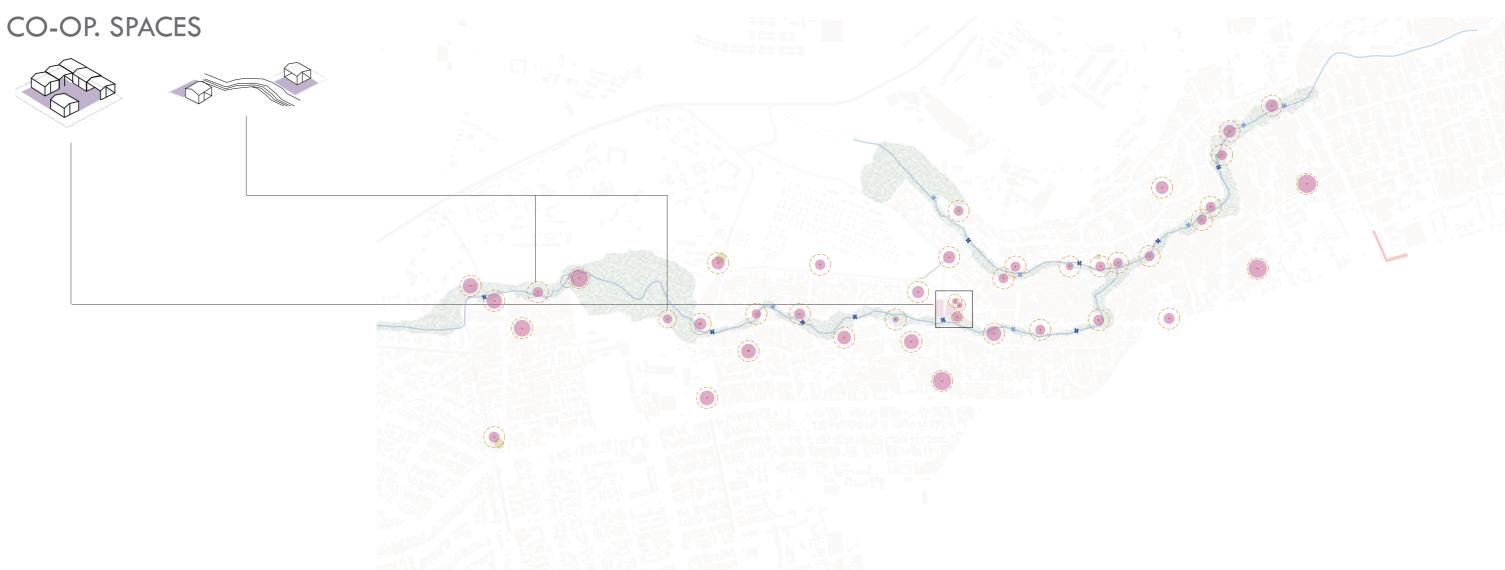


(fromlandscapetoroofscape, 2016) (Kounkuey Design Initiative) (ikhayalami.org)

(fromlandscapetoroofscape, 2016)

**SL 4** 

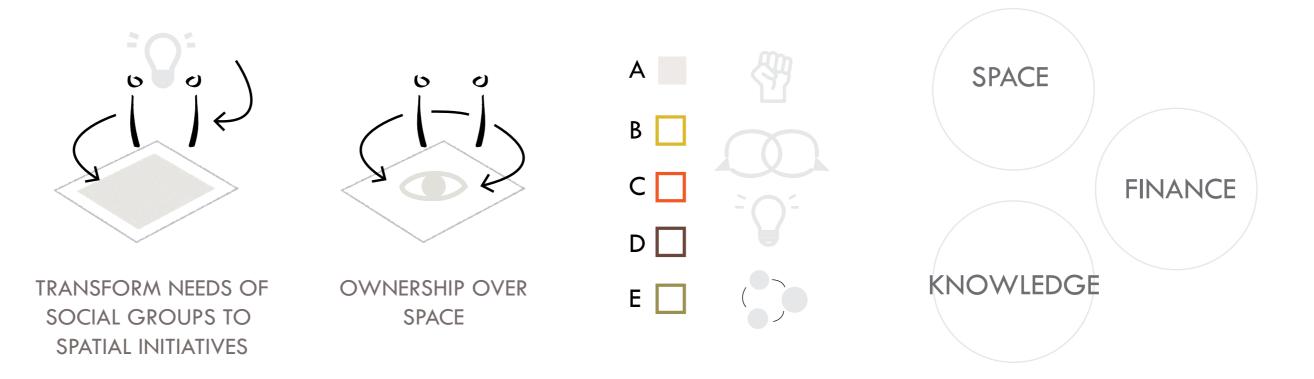




**SL 4** 



**SL 4** 

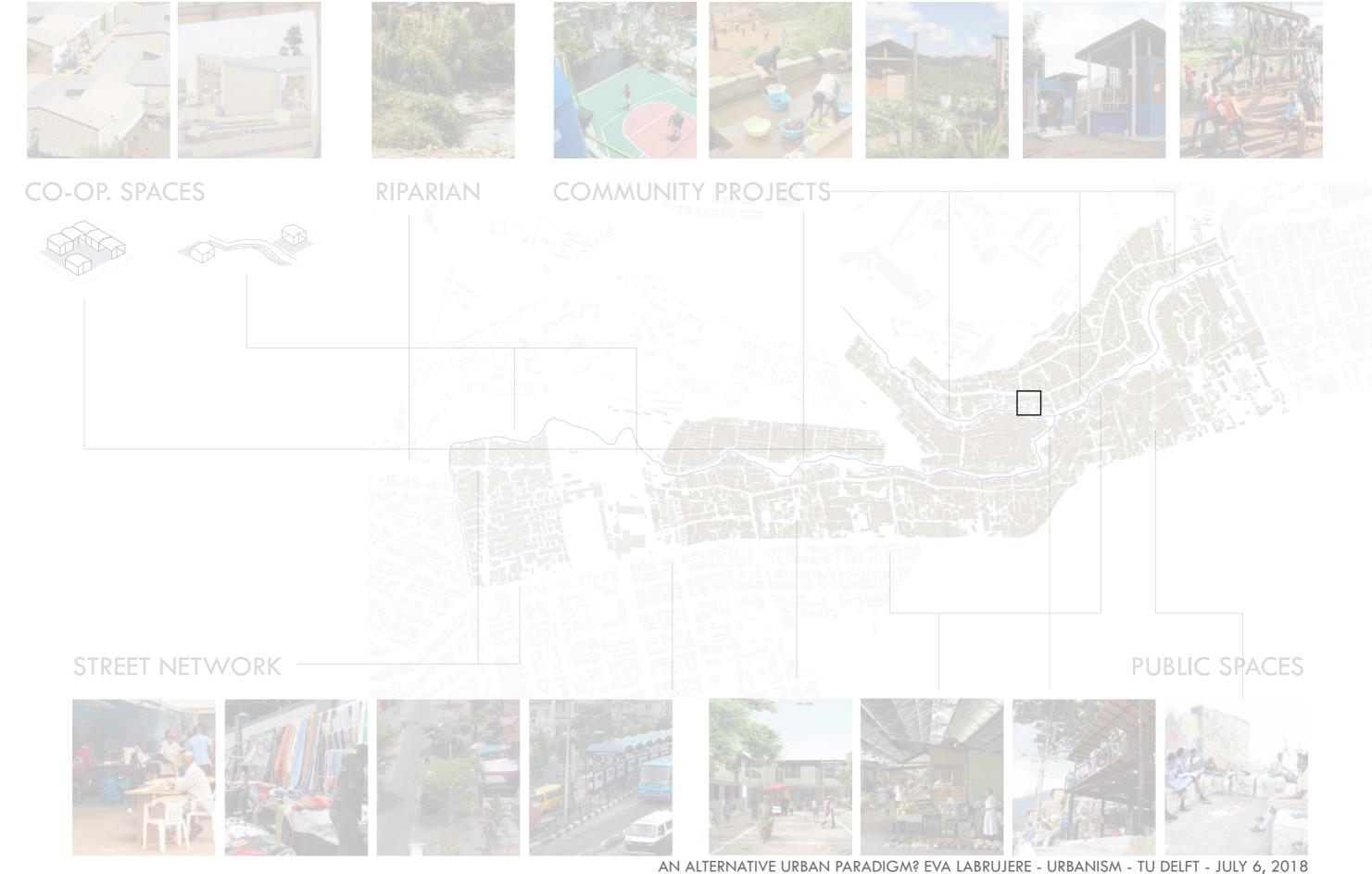


**SL 4** 

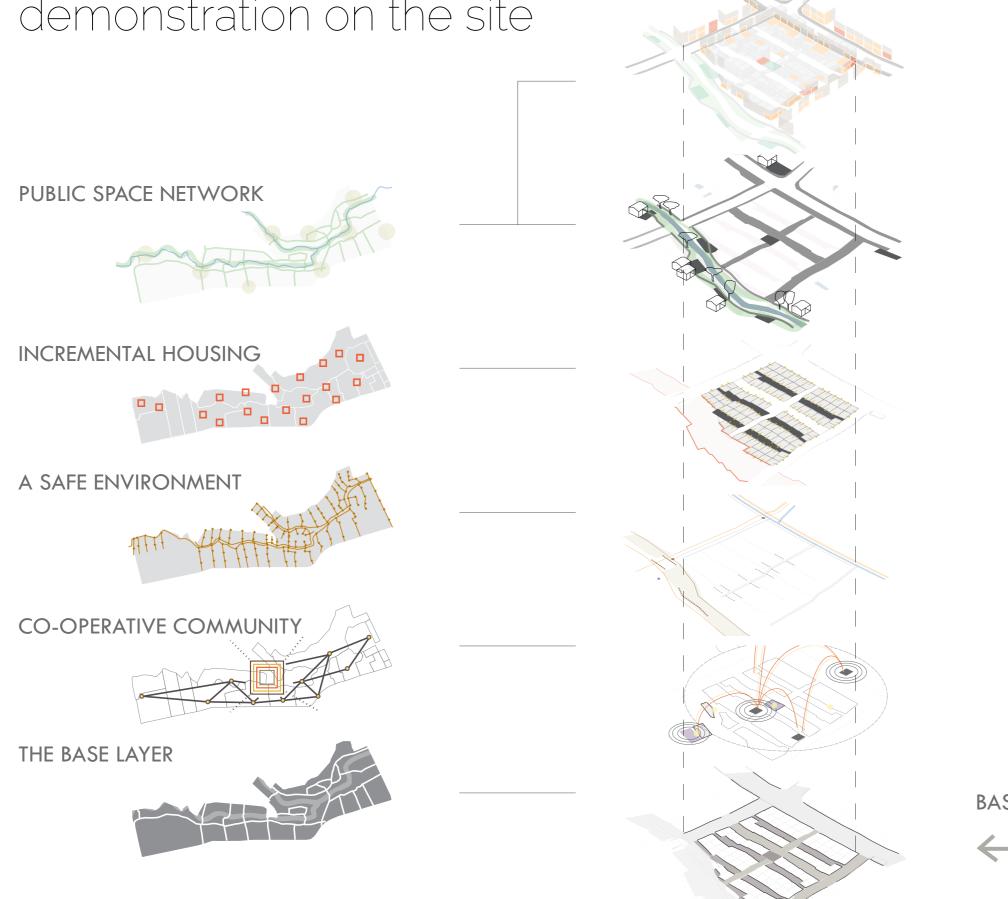


**SL 4** 

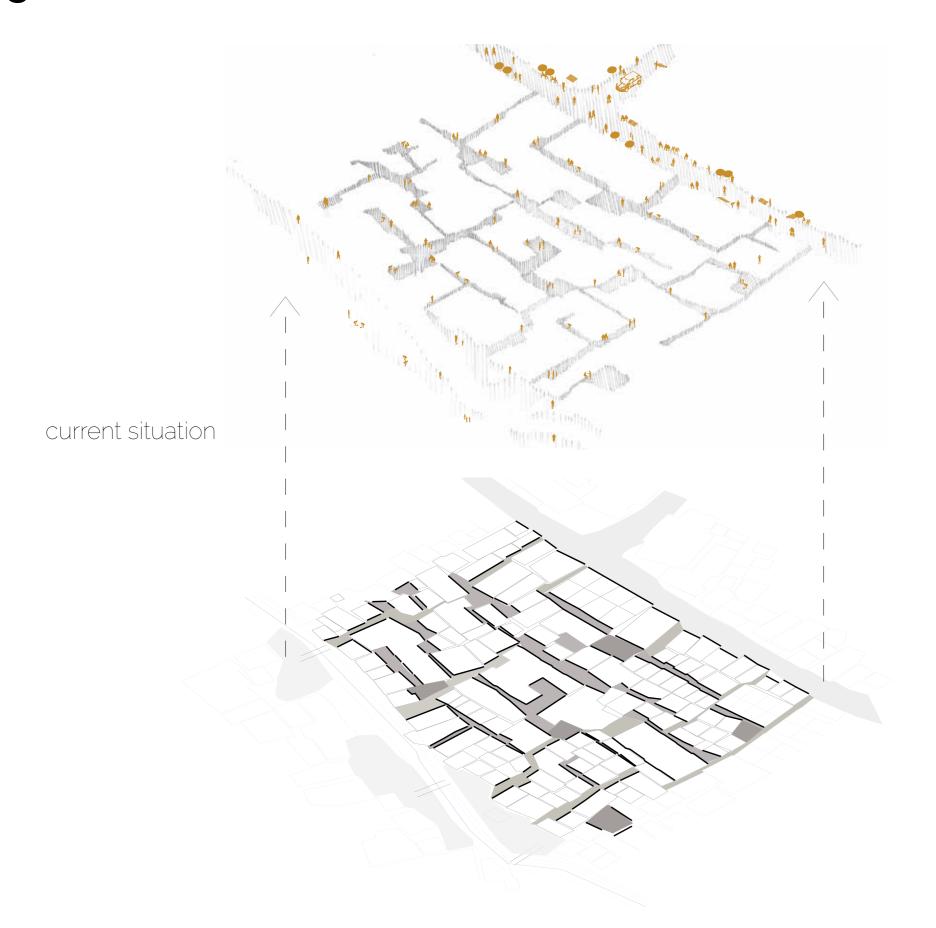


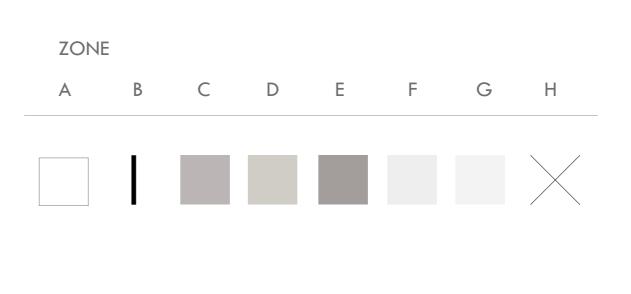




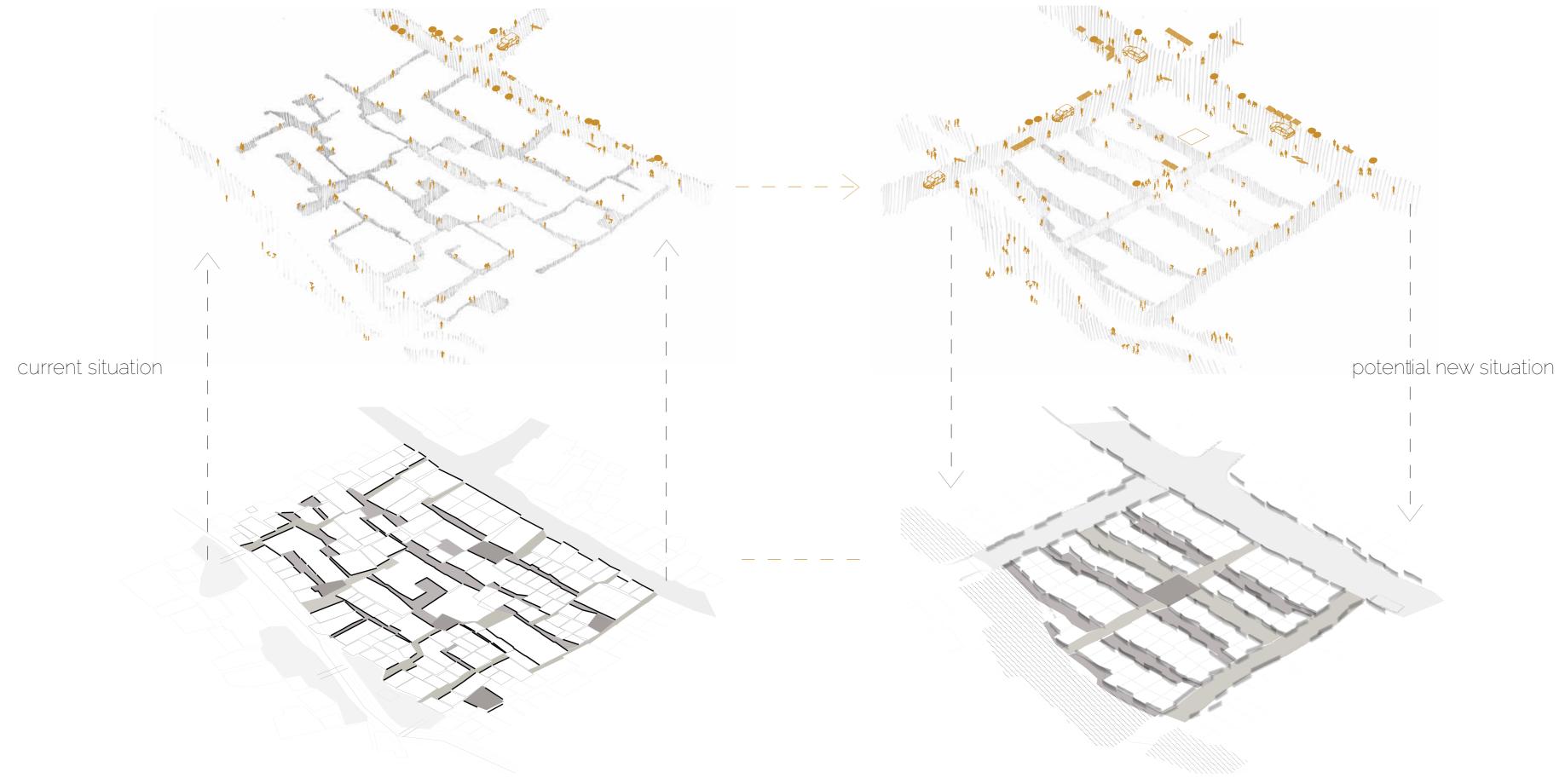


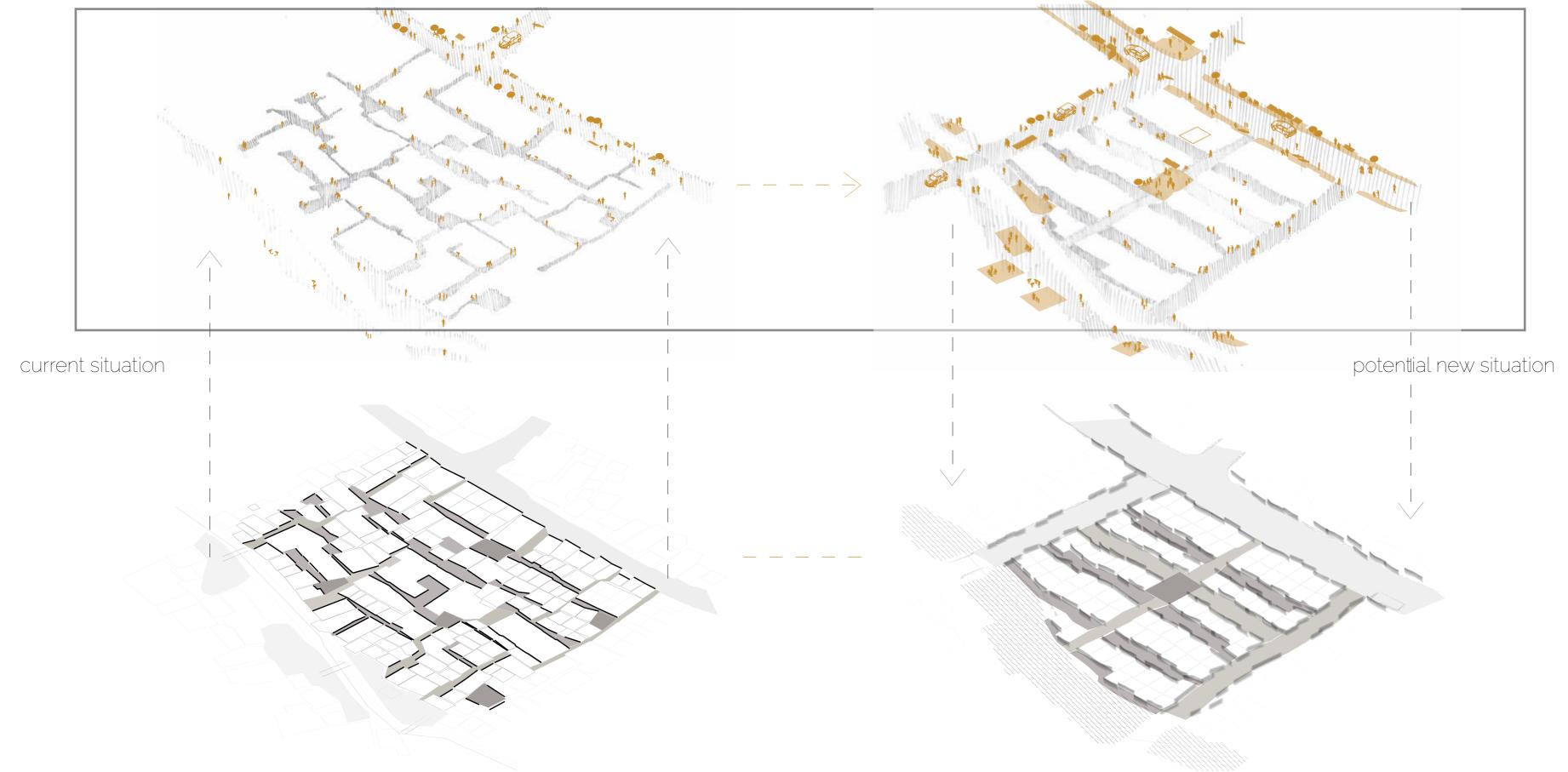
BASIC PRINCIPLE

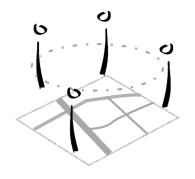




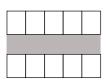


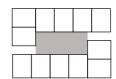


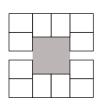


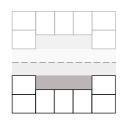


CONSENSUS ON VILLAGE DEMARCATION PLAN









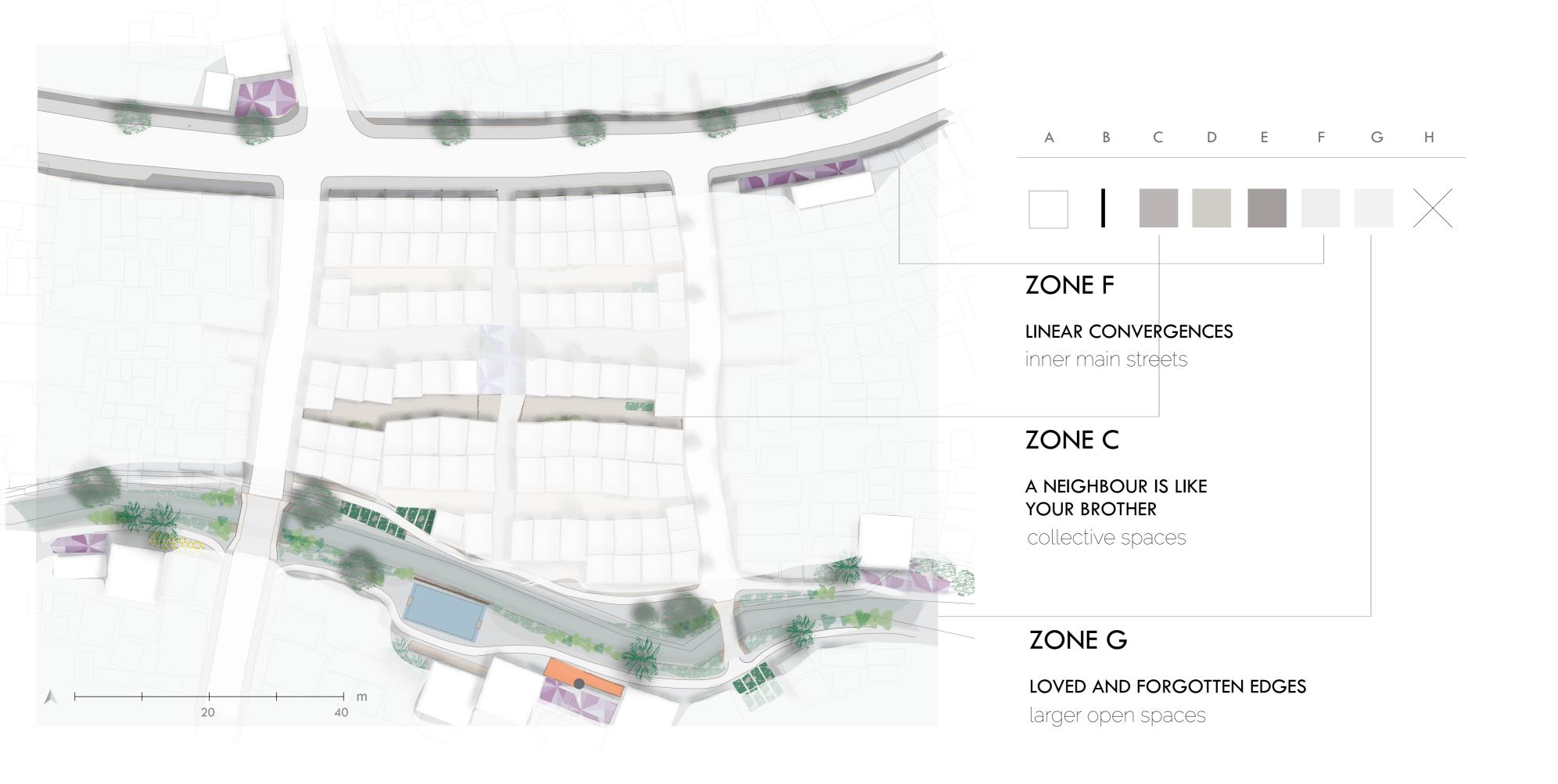
REORDERING THE SPATIAL ZONING SYSTEM: BASIC PRINCIPLE





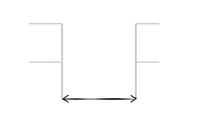


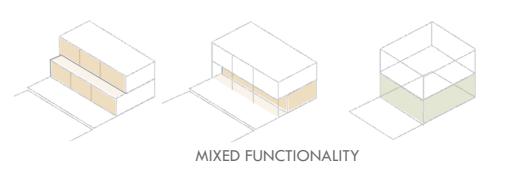
A B C D E F G H

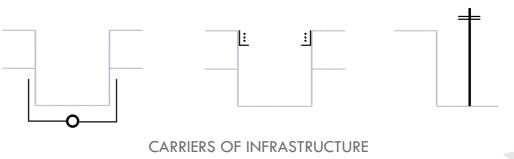




INCREASE LEGIBILITY AND ACCESSIBILITY

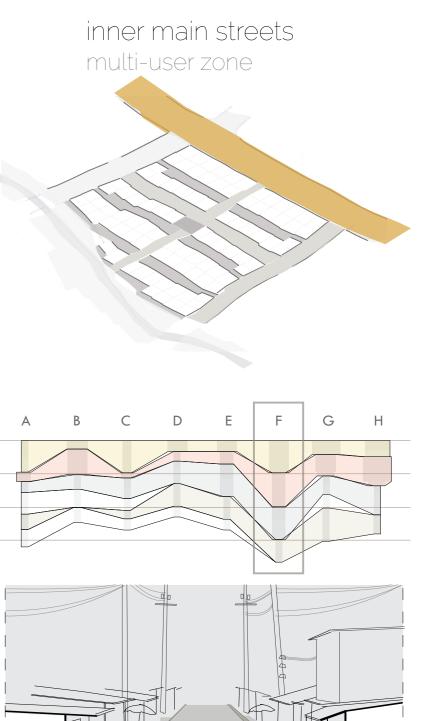


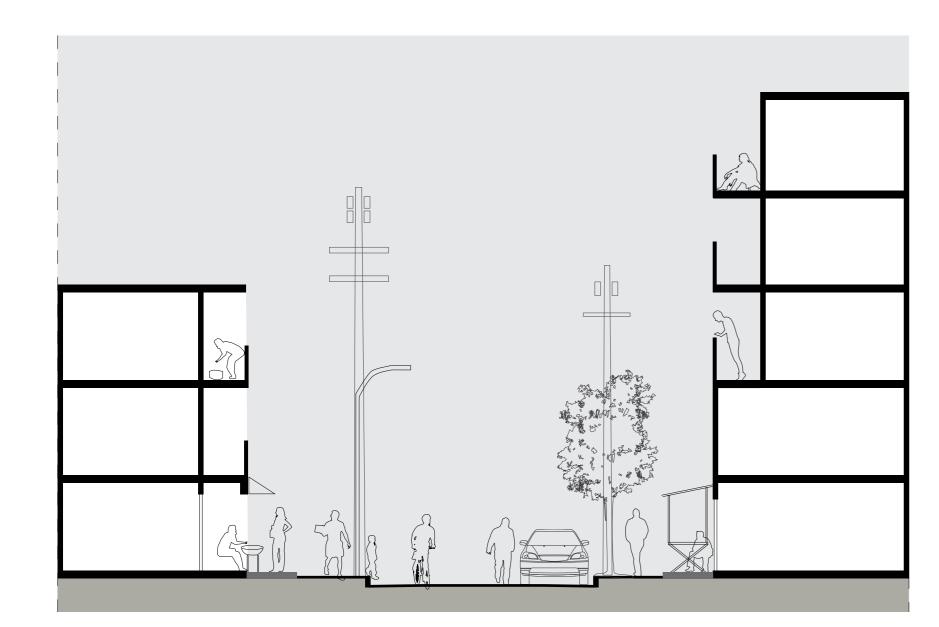




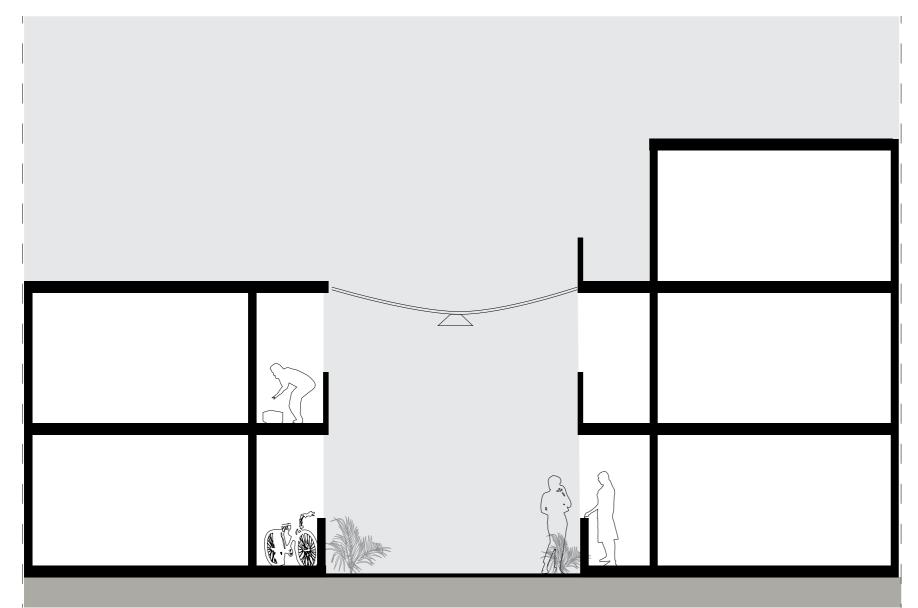
#### ZONE F

#### LINEAR CONVERGENCES





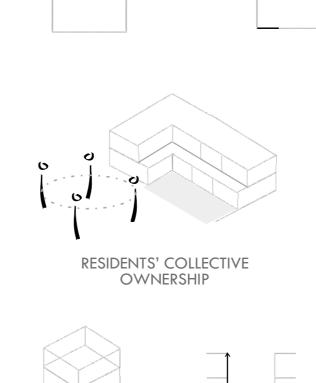


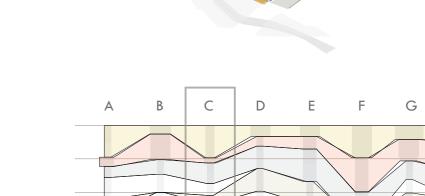


#### **ZONE C**

#### A NEIGHBOUR IS LIKE YOUR BROTHER

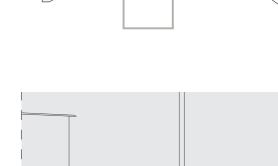
collective spaces pedestrian & cyclist zone

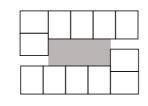






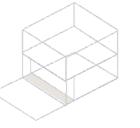
H = MAX.2X WIDTH





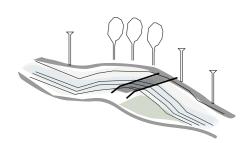
FLEXIBLE BLOCKING LAYOUT

8-14 HOUSEHOLDS

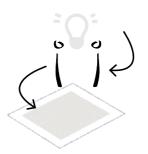




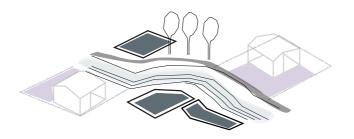
SPACE: ADAPTATION



RIPARIAN ZONE



TRANSFORM NEEDS OF SOCIAL GROUPS TO SPATIAL INITIATIVES



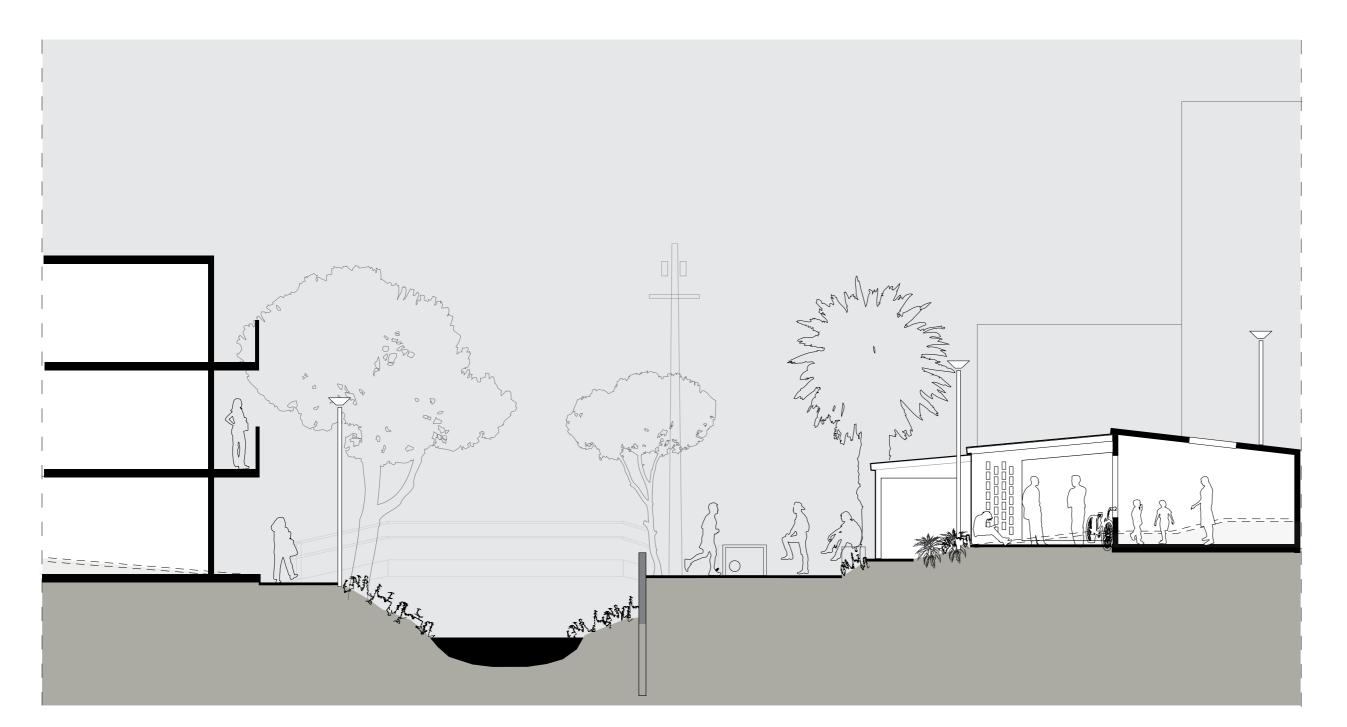
NEIGHBOURHOOD PAVILLIONS

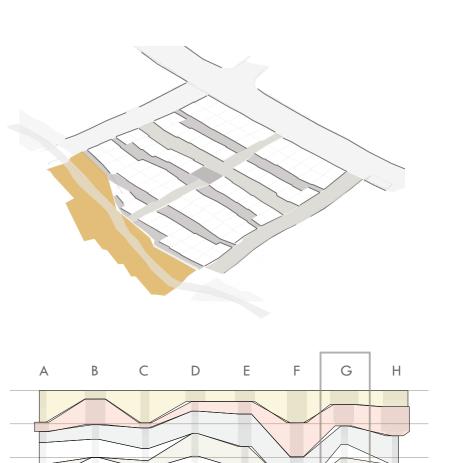
INFILL RIPARIAN
PUBLIC SPACES BY
RESIDENTS INITIATIVES

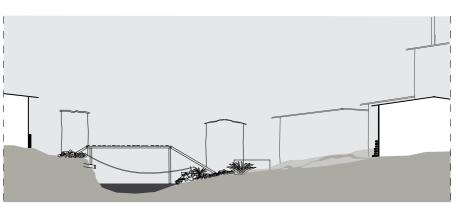
#### **ZONE** G

#### LOVED AND FORGOTTEN EDGES

larger open spaces pedestrian & cyclist zone





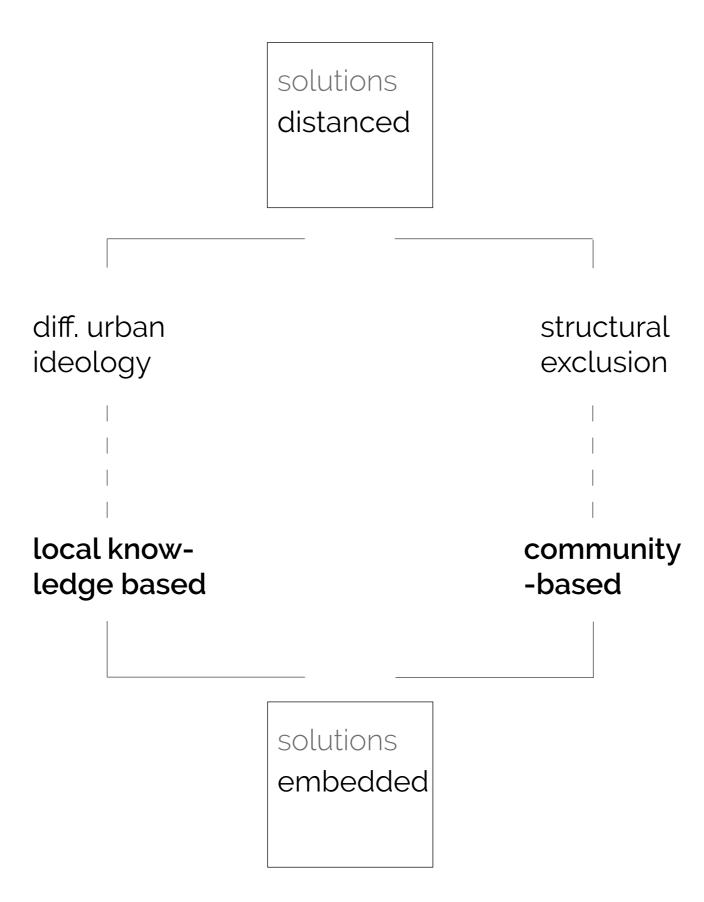


context analysis strategic f/w reflection

problem statement conclusions strategic layers

project definition SL1 - co-operative comm.
SL4 - public space network
site design

#### 4 reflection



4 reflection















13 CLIMATE ACTION



14 LIFE BELOW WATER









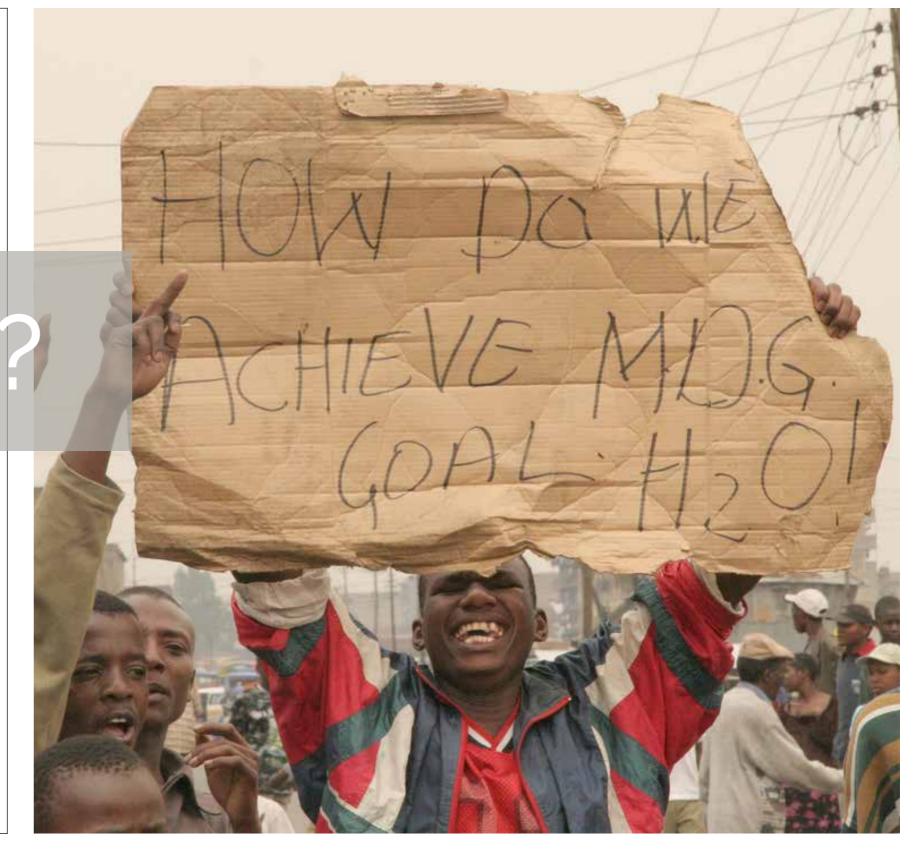












(un.org) (julius mweru/IRIN)

