

# ASYMMETRIES OF POWER

Adaptive spatial planning in the Metropolitan  
Area of the Valley of Mexico

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*P5*

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Problem Field



Adaptive Strategic  
Framework



Strategies and Actions



Design Local Level





Problem Field



Context



Metropolitan Areas

Problem Field



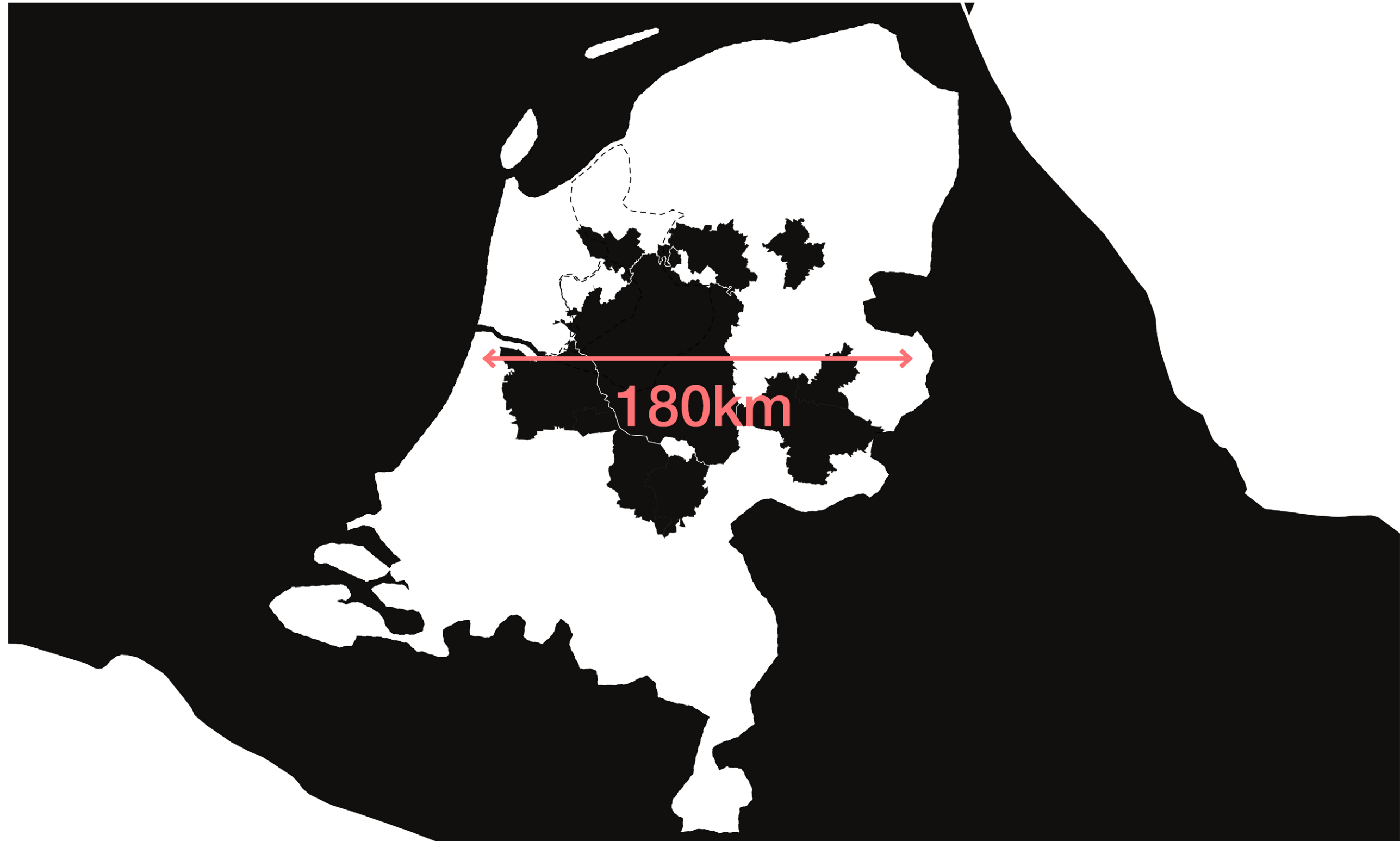
Location



MAVM & Netherlands

## Problem Field

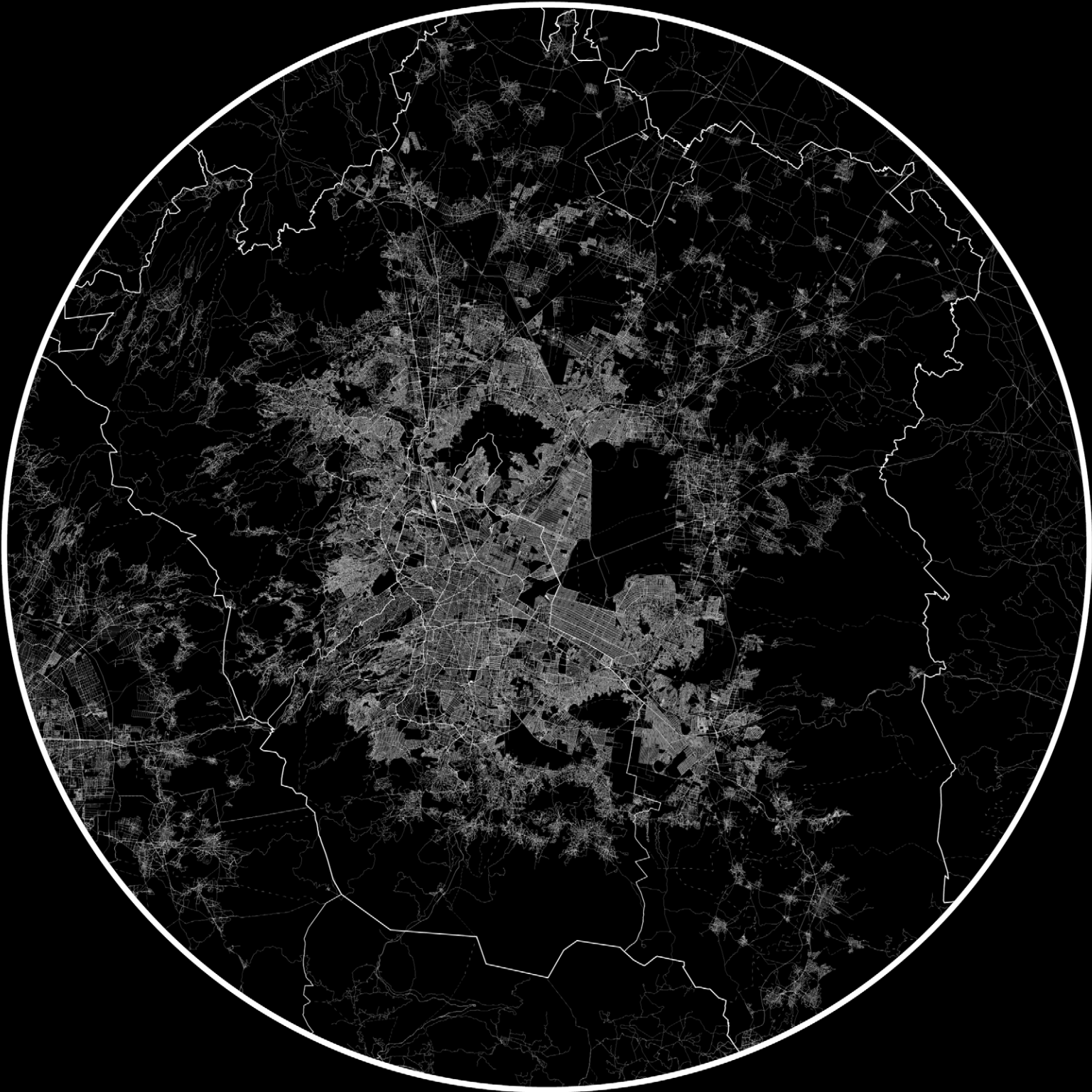
Location



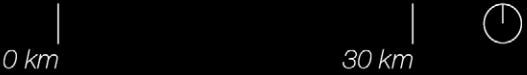
MAVM & Netherlands

# Problem Field

The Emergent Metropolisation Process in Mexico



More than 21 million Inhabitants





## Problem Field

Globalization and Neoliberalism in Latin America



## Emergent Metropolis Process

Santa Fe Business District (Source: UNEQUAL SCENES, 2019) The image shows the spatial asymmetric relationship between Santa Fe and informal housing developments.



## Problem Field

Spatial Fragmentation and Social Segregation



## Social Segregation and Spatial Fragmentation

Spatial fragmentation 2 (Source: UNEQUAL SCENES, 2019) Left, low income informality; right, high income development.



# Problem Field

Urban Growth of Mexico City







# Limited planning scope





## Housing estates for low income

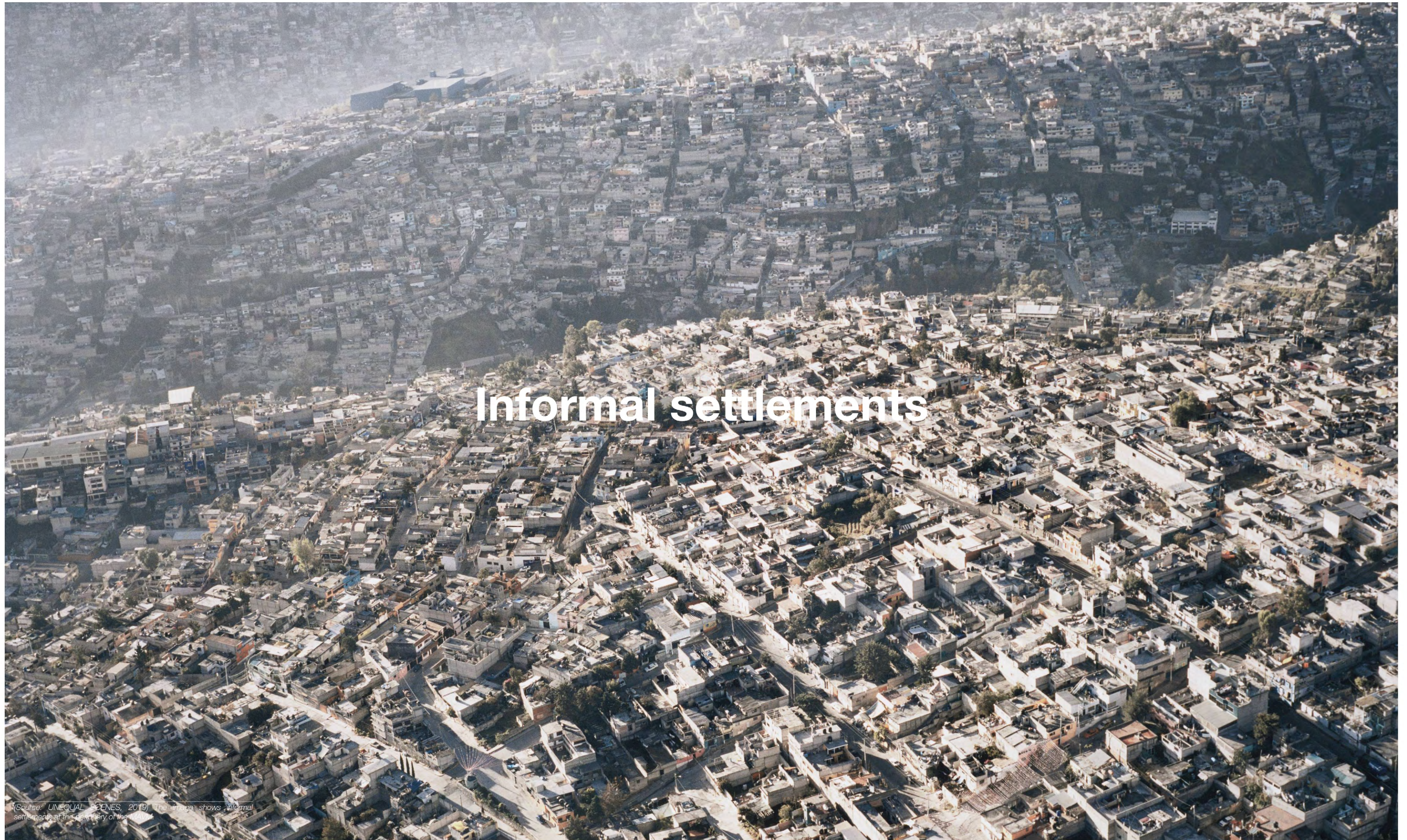
(Source: Jorge Taboada) The image shows housing estates that were dominating the urban expansion.





*Spatial fragmentation: left, low income informality; right, high income development. Source: UNEQUAL SCENES, 2019.*

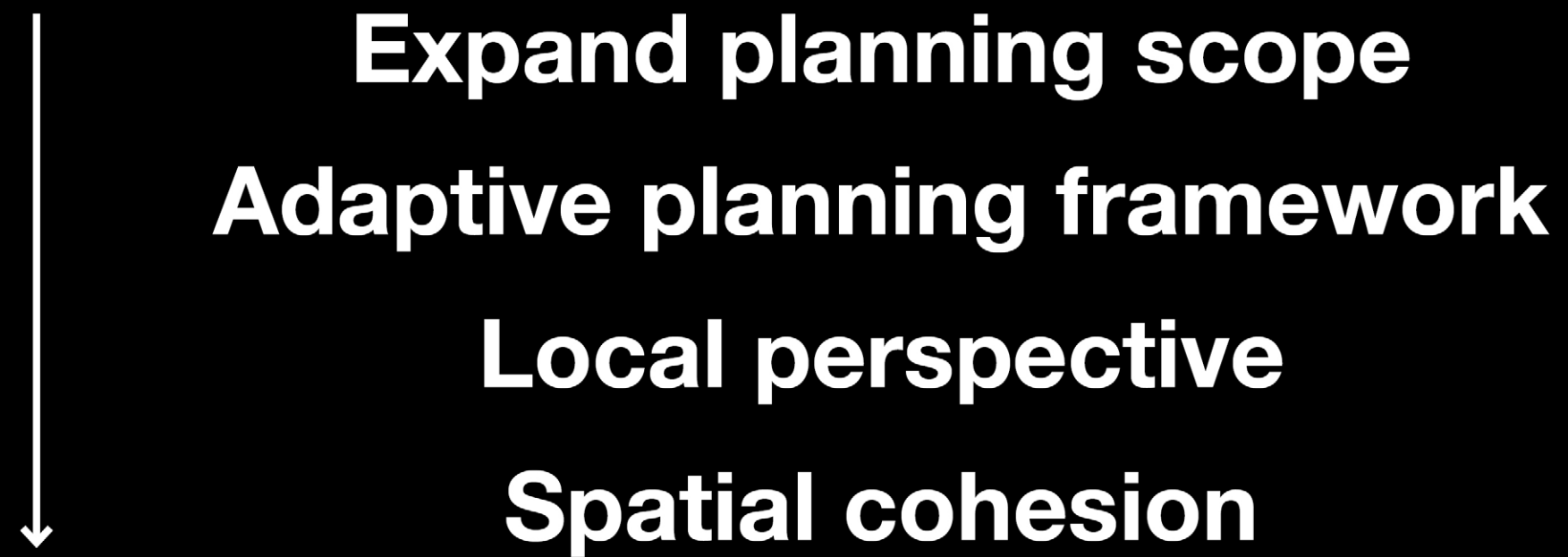




# Informal settlements

(Source: UNEQUAL SCENES, 2019) The image shows informal settlements at the periphery of the city.





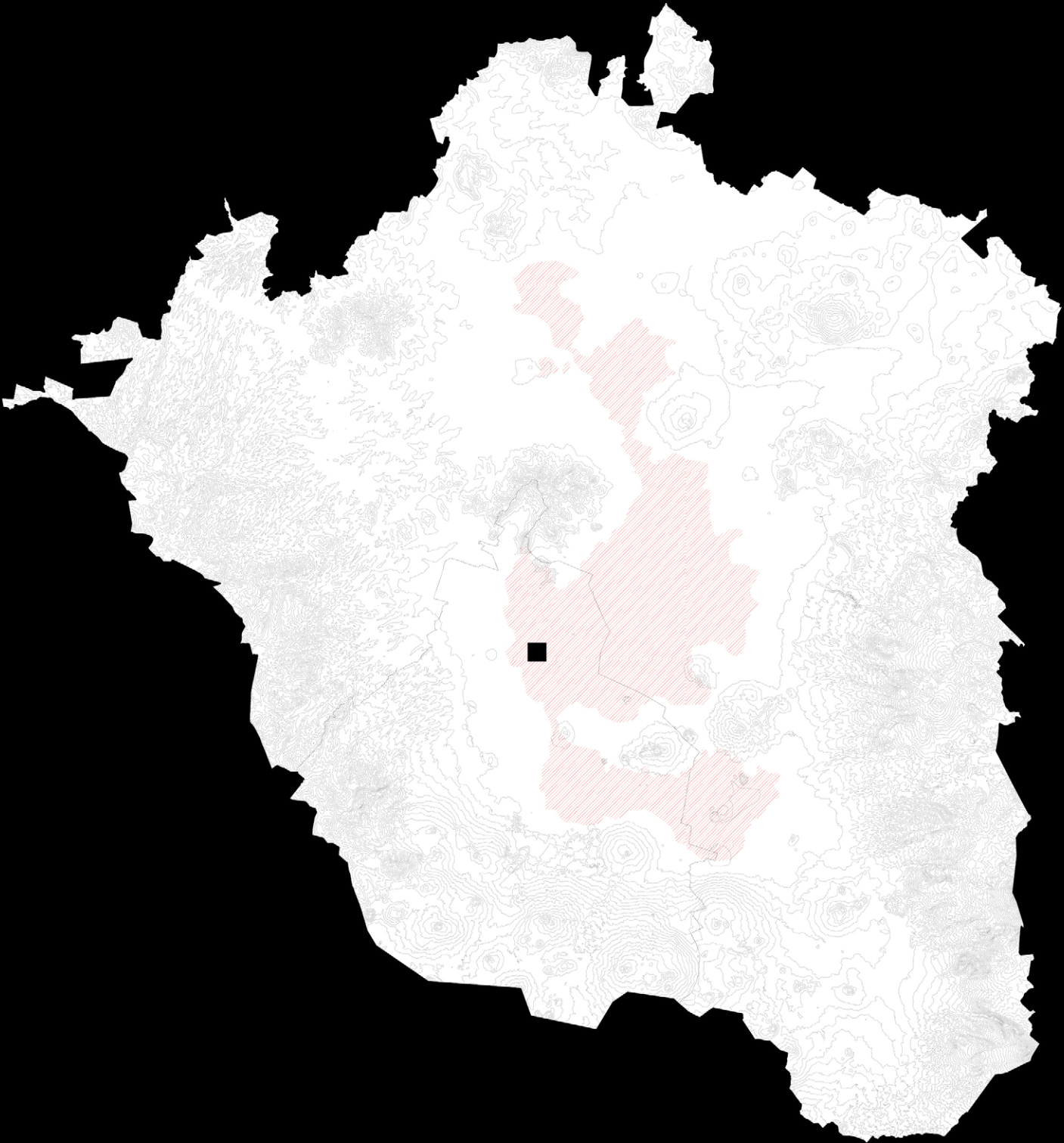
**How and until what extend can adaptive  
spatial planning facilitate endogenous  
urban development capable of  
reducing social segregation and spatial  
fragmentation towards a cohesive-just  
MAVM?**





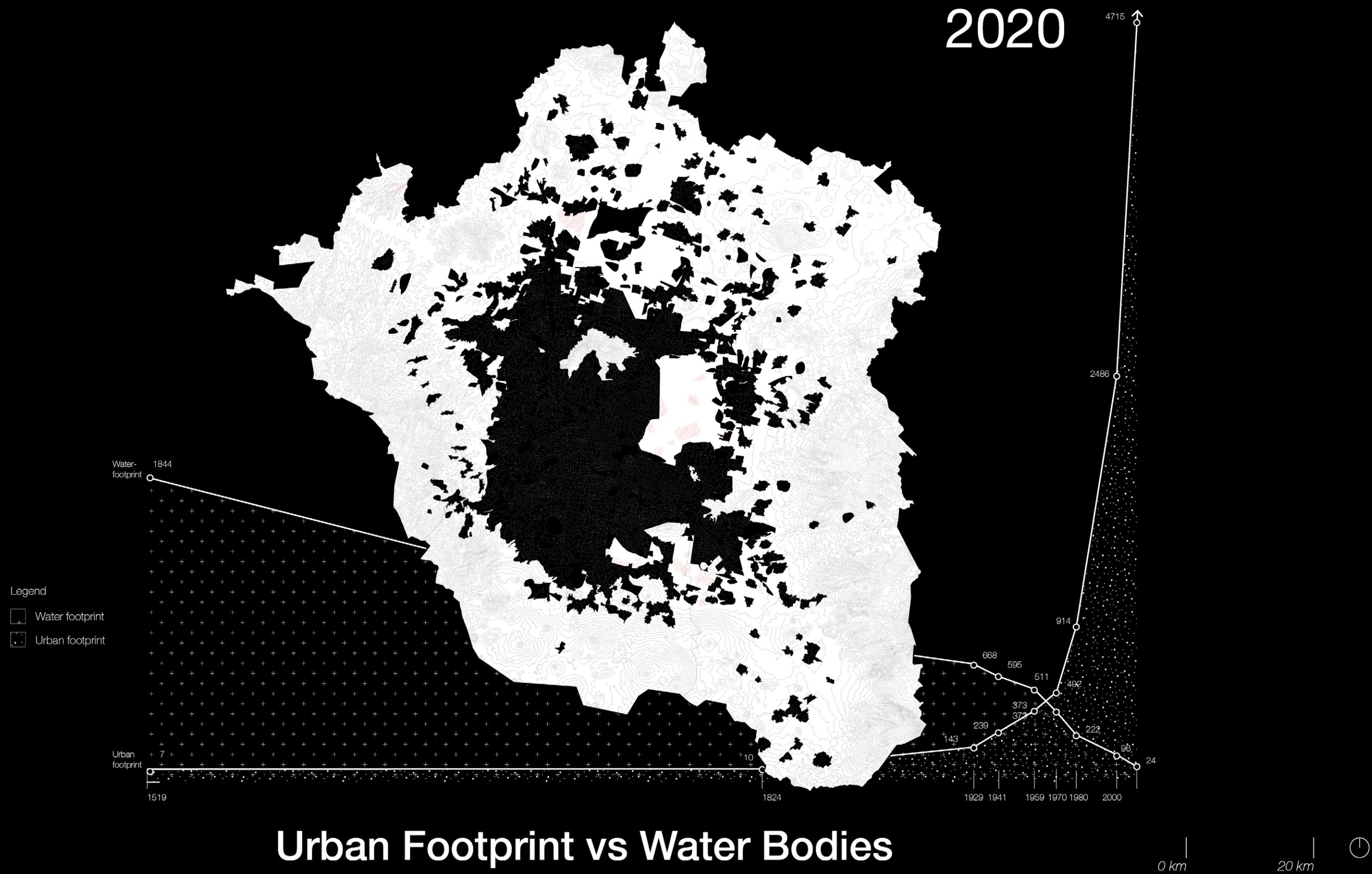


1529



Urban Footprint vs Water Bodies







# Adaptive Strategic Framework

Metropolitan Assessment



## Pollution and Traffic

(Source: Atraccion360, 2015)

# Adaptive Strategic Framework

Metropolitan Assessment



## Land Development Controlled by Real Estate

(Source: Photograph by Livia Corona Benjamin, 2000)



# Adaptive Strategic Framework

Metropolitan Assessment



## Segregated Housing Estates

(Source: Photograph by Livia Corona Benjamin, 2000)



# Adaptive Strategic Framework

Metropolitan Assessment



## Increased Self-construction 9

(Source: Photograph by Zaickz Moz , 2018).



# Adaptive Strategic Framework

Metropolitan Assessment



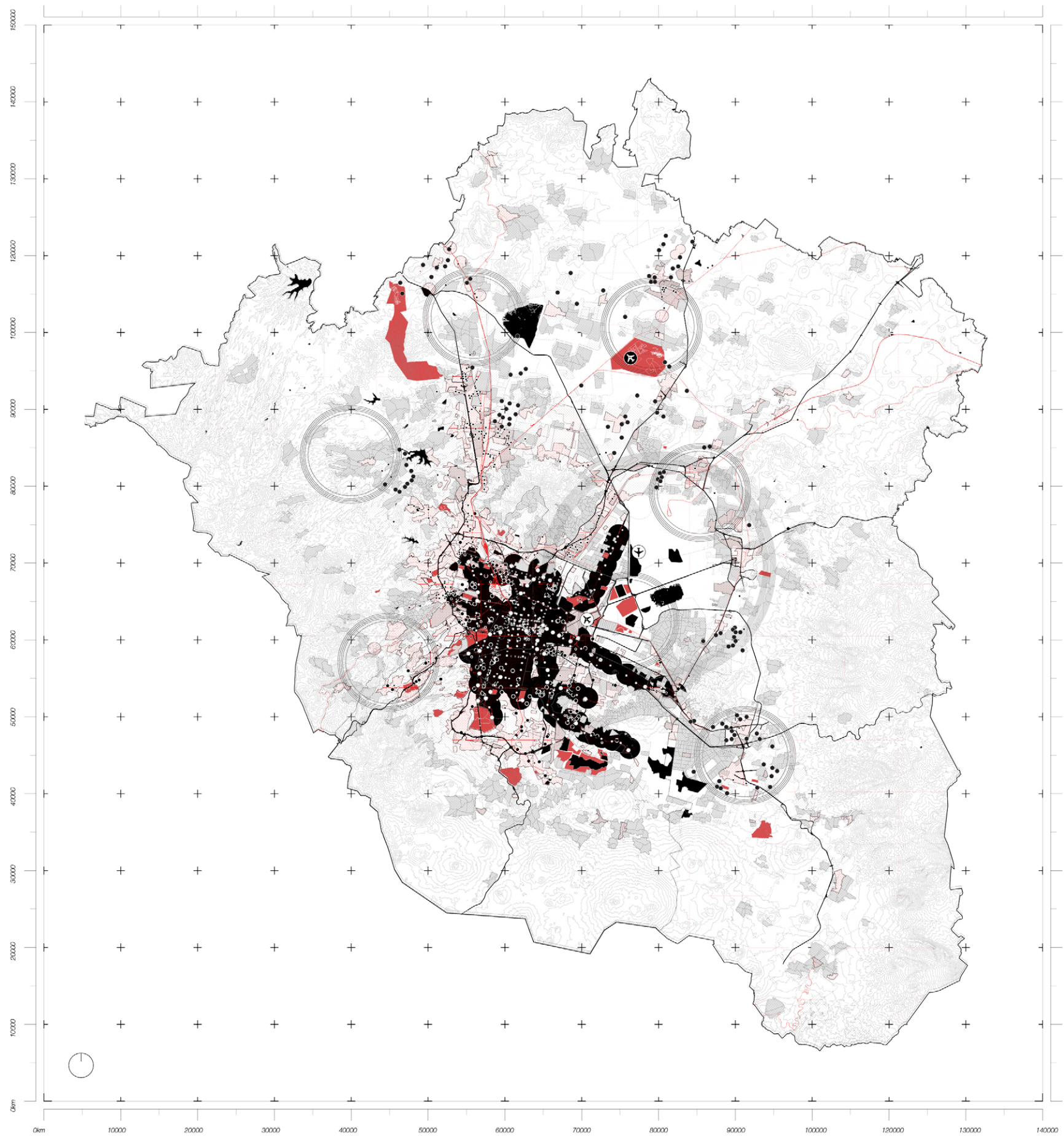
## Unjust Large Urban Projects

(Source: Google earth, 2019) The figure shows the location of AICM airport underconstruction, now cancelled.



# Adaptive Strategic Framework

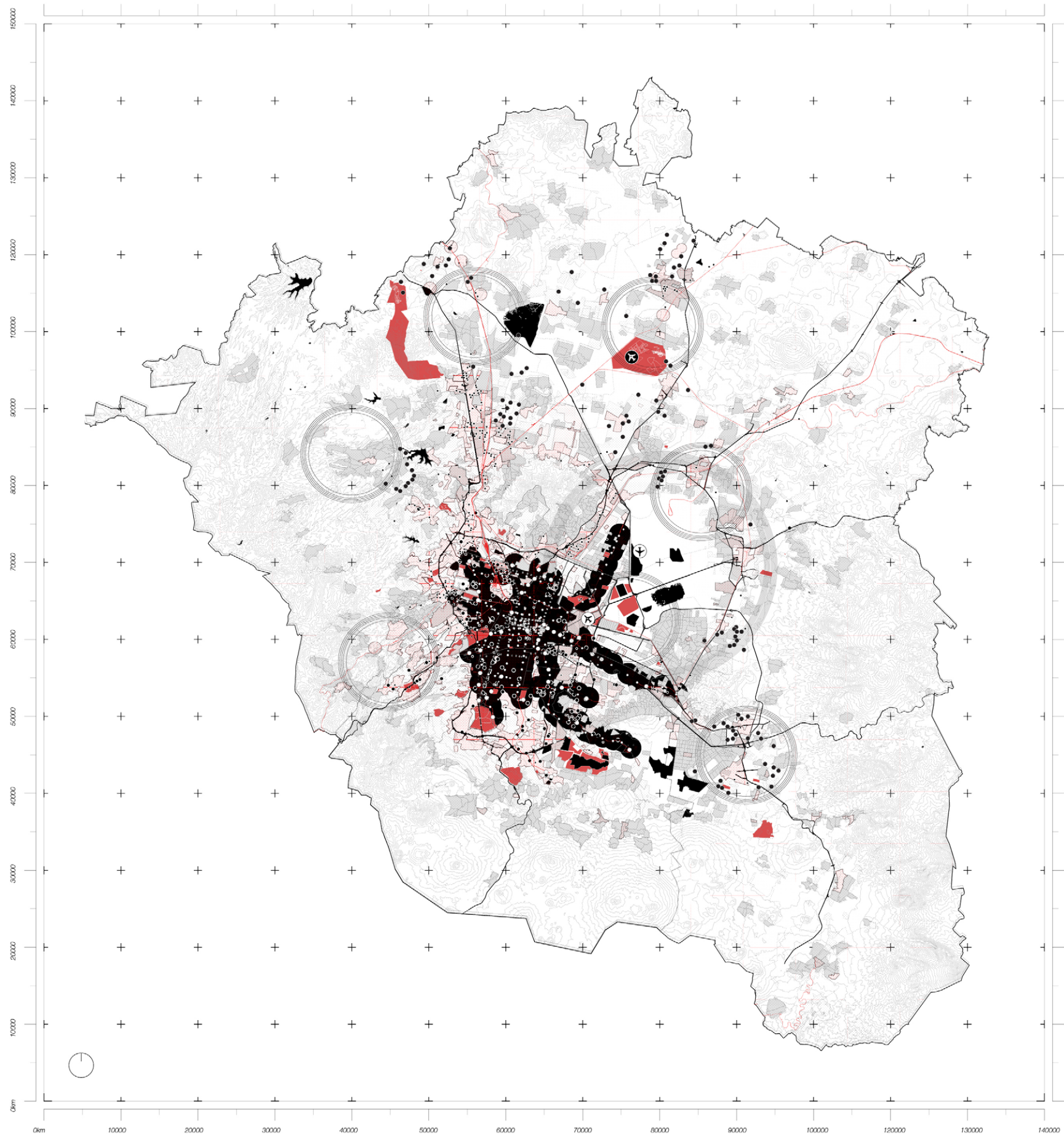
Metropolitan Assessment





# Adaptive Strategic Framework

## Metropolitan Assessment



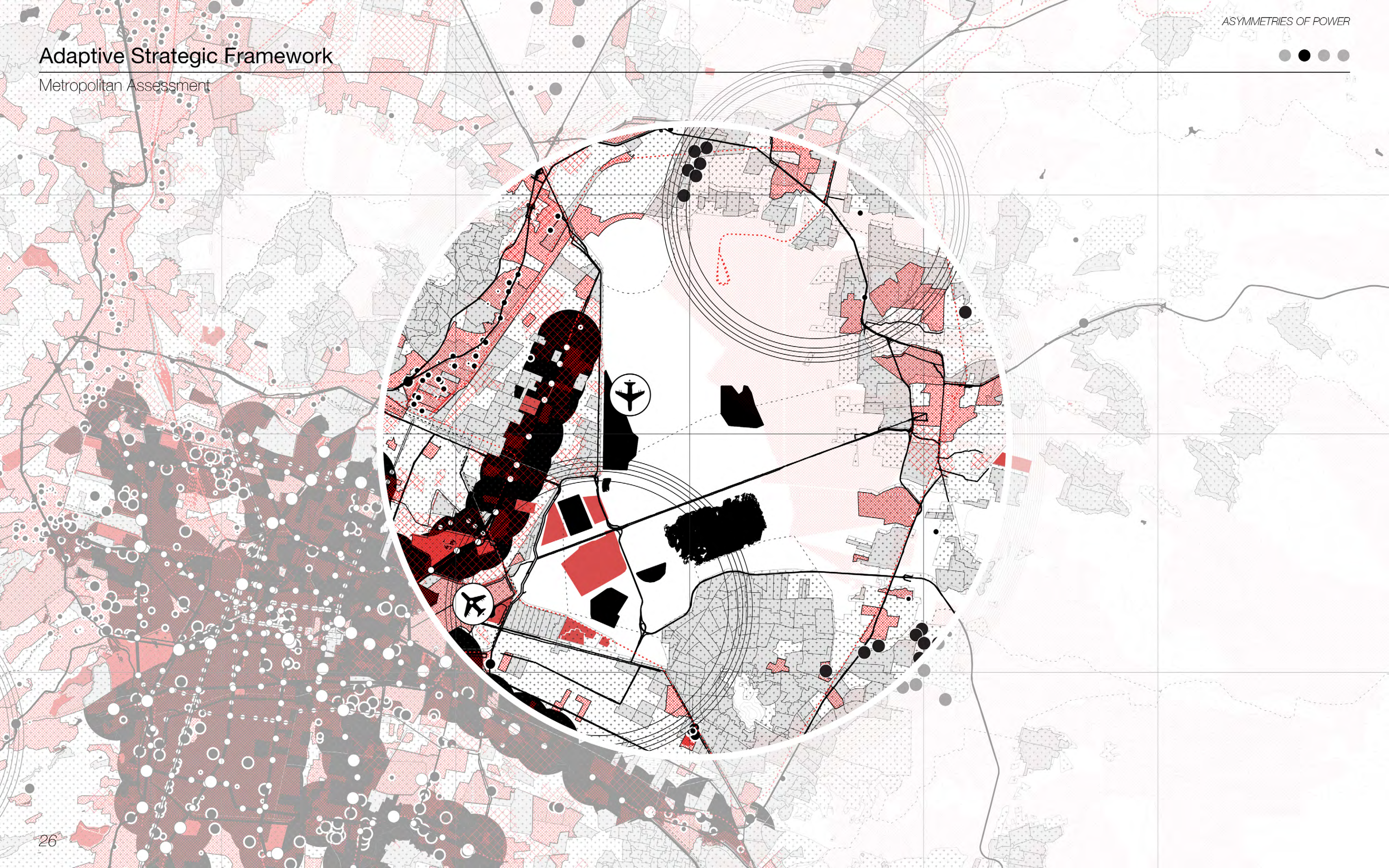
-up and -down AICM (Google images, 2019) The image shows the advance condition in which the airport was cancelled.  
-up and -down Texcoco ecological park project (Iñaki Echeverría, 2018) The image shows the vision for the future metropolitan park.





# Adaptive Strategic Framework

Metropolitan Assessment





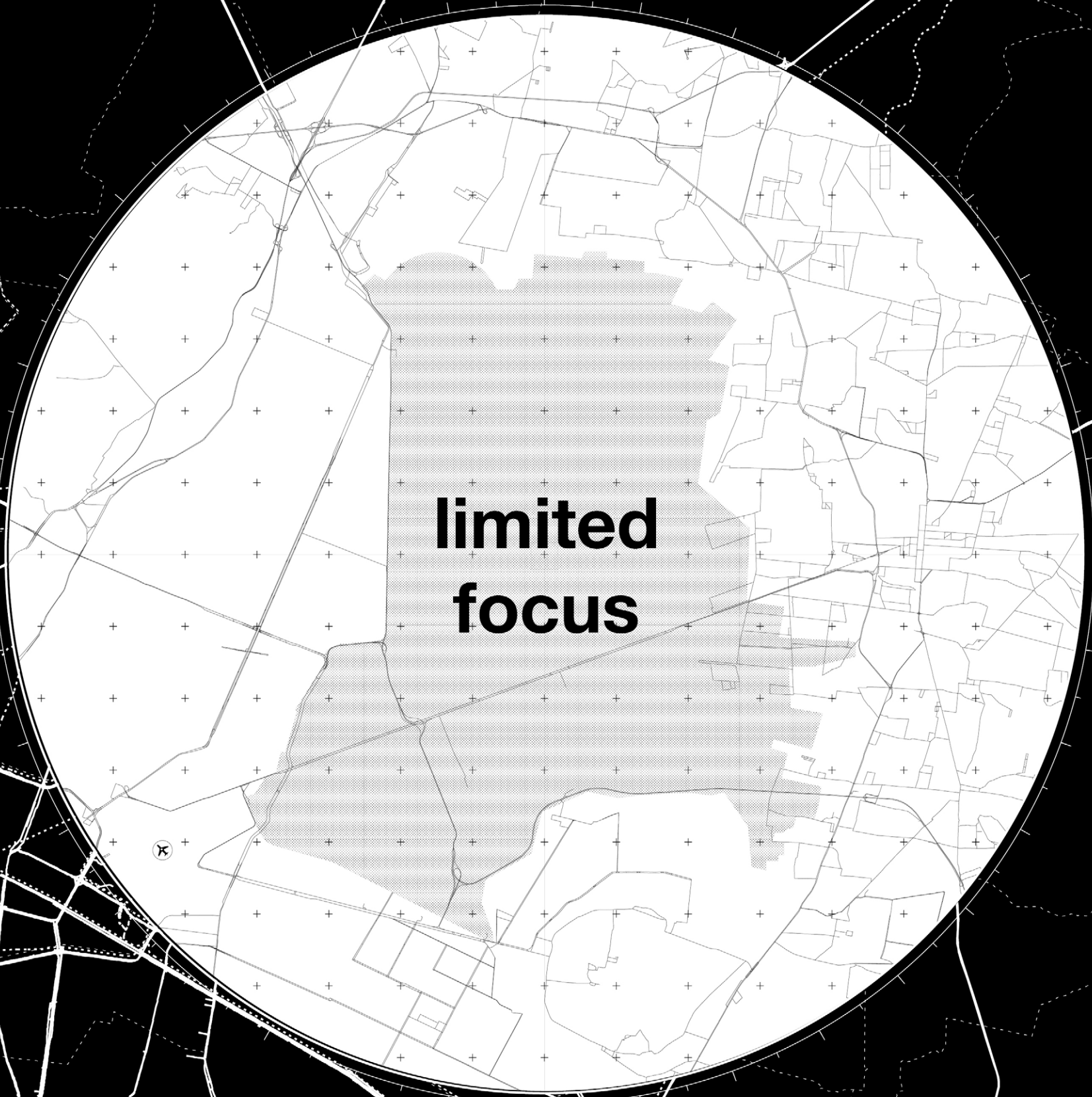
# Adaptive Strategic Framework

Metropolitan Assessment



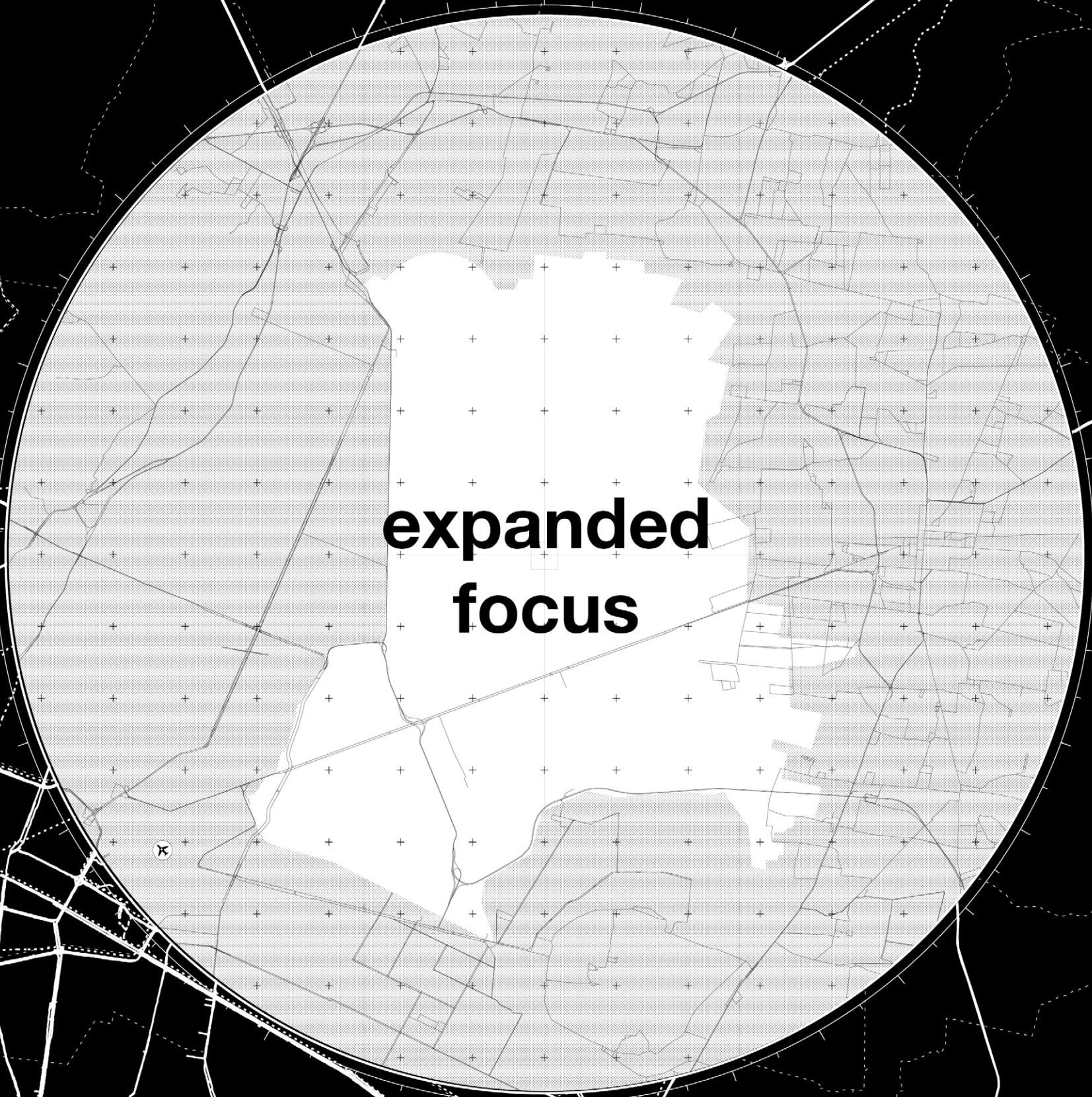


Adaptive Strategic Framework  
Strategic Urban Agglomerations



# Adaptive Strategic Framework

Strategic Urban Agglomerations



**expanded  
focus**





Connectedness



URBAN  
CENTER

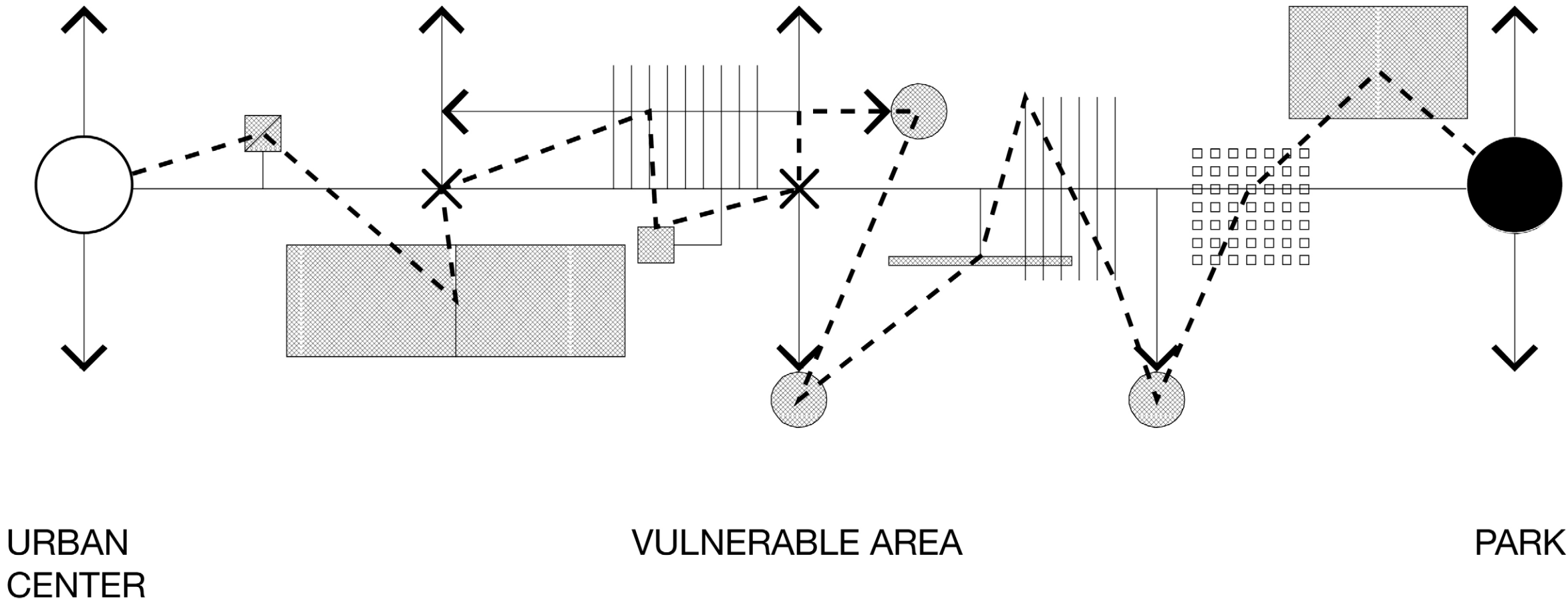
VULNERABLE AREA

PARK



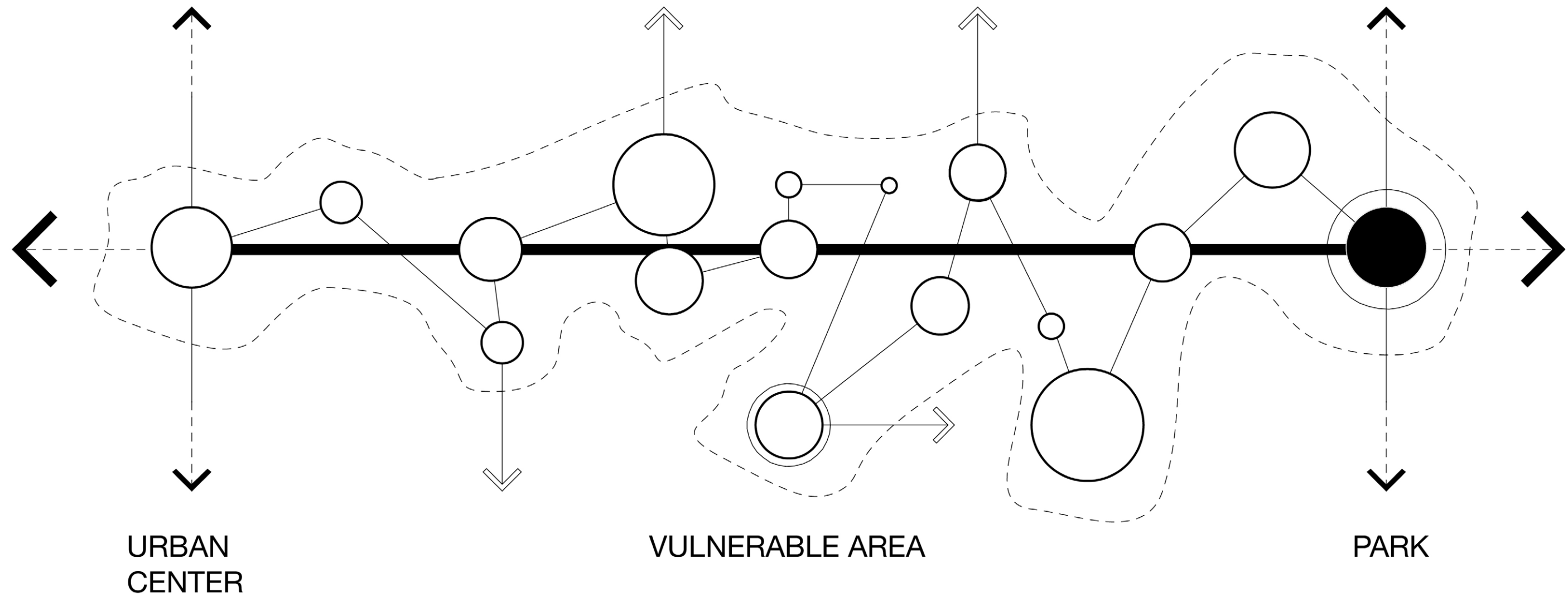


Local Activation





## Intermunicipal Co-operation towards a more endogenous development









# Adaptive Strategic Framework

Strategic Urban Agglomerations





# Adaptive Strategic Framework

Strategic Urban Agglomerations



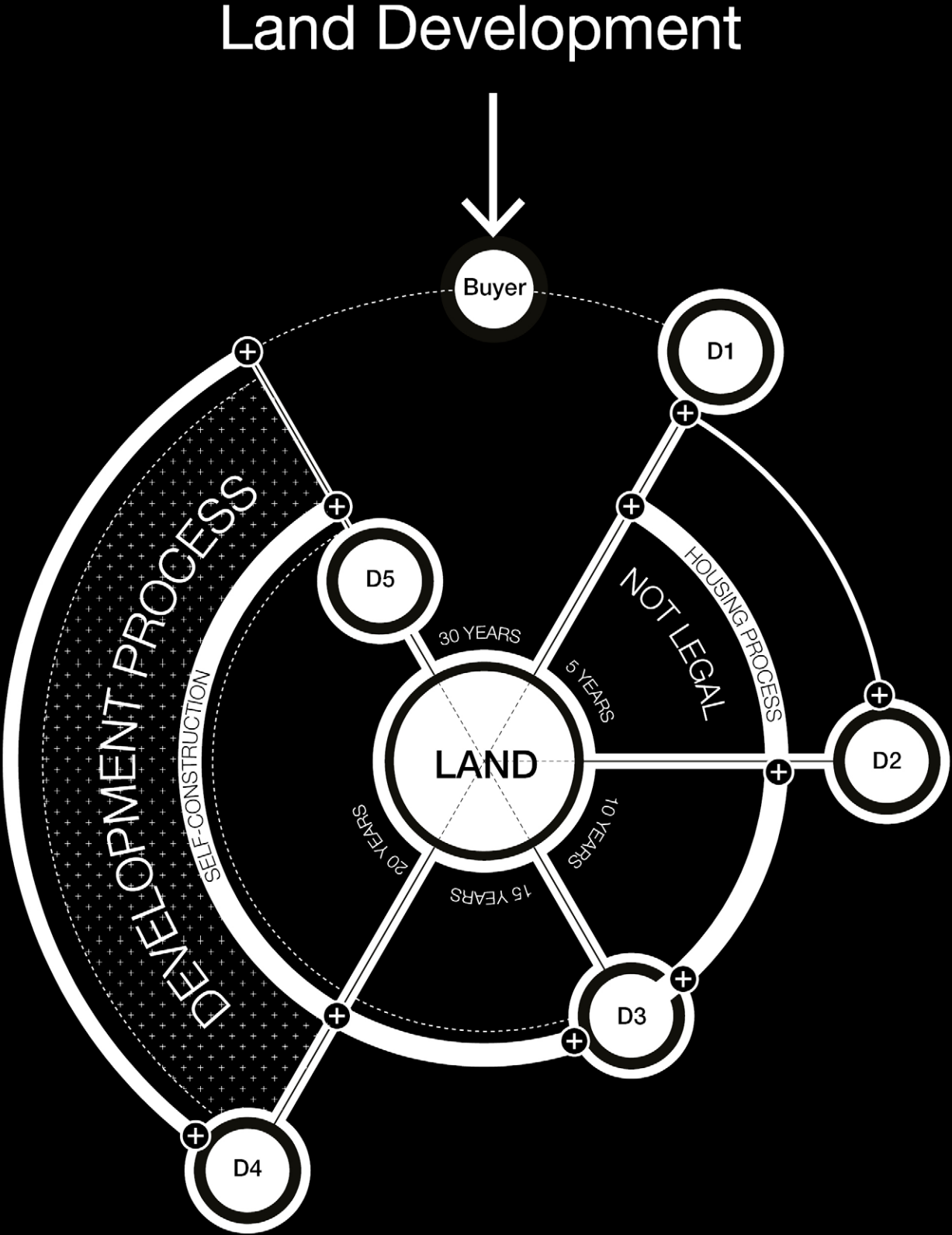


An aerial photograph of a vast, densely packed urban area, likely a favela or informal settlement. The image shows a central road running vertically through the middle of the frame, flanked by tightly packed, multi-story buildings. The buildings have various colored roofs, including red, grey, and blue. The overall scene is one of extreme density and urban sprawl, with the road acting as a central artery through the sea of buildings.

The challenge lies in the process

(Source: Photography by Johnny Miller)

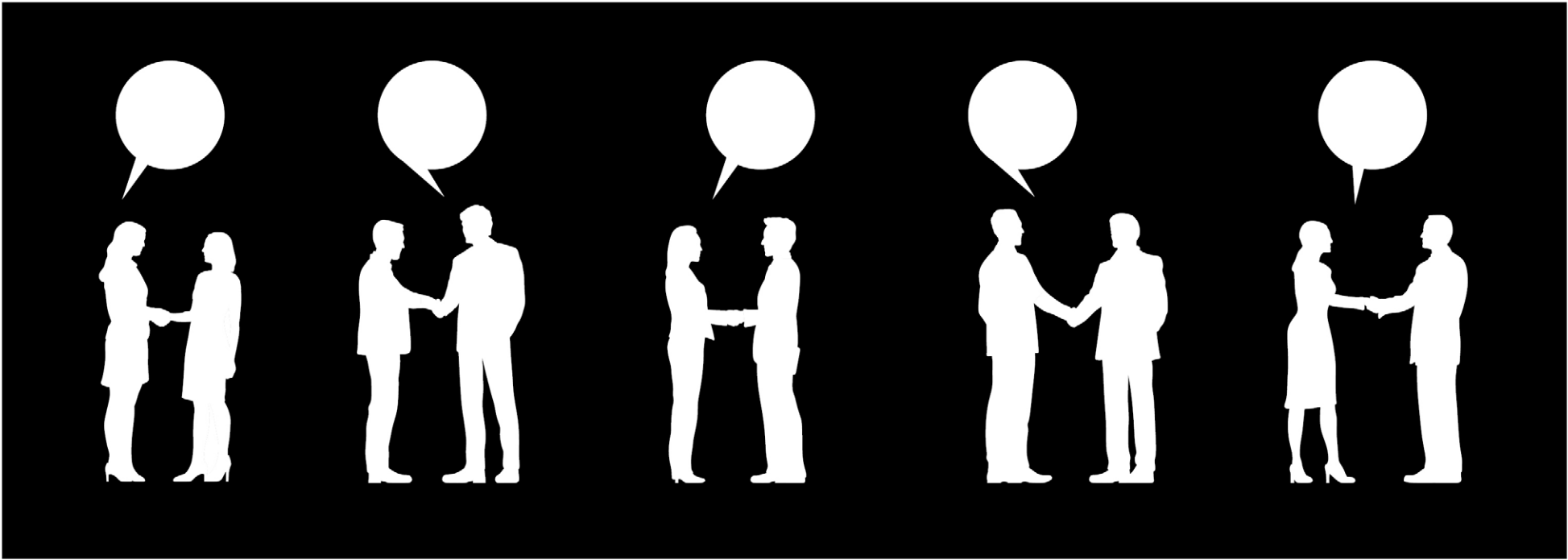






# Adaptive Strategic Framework

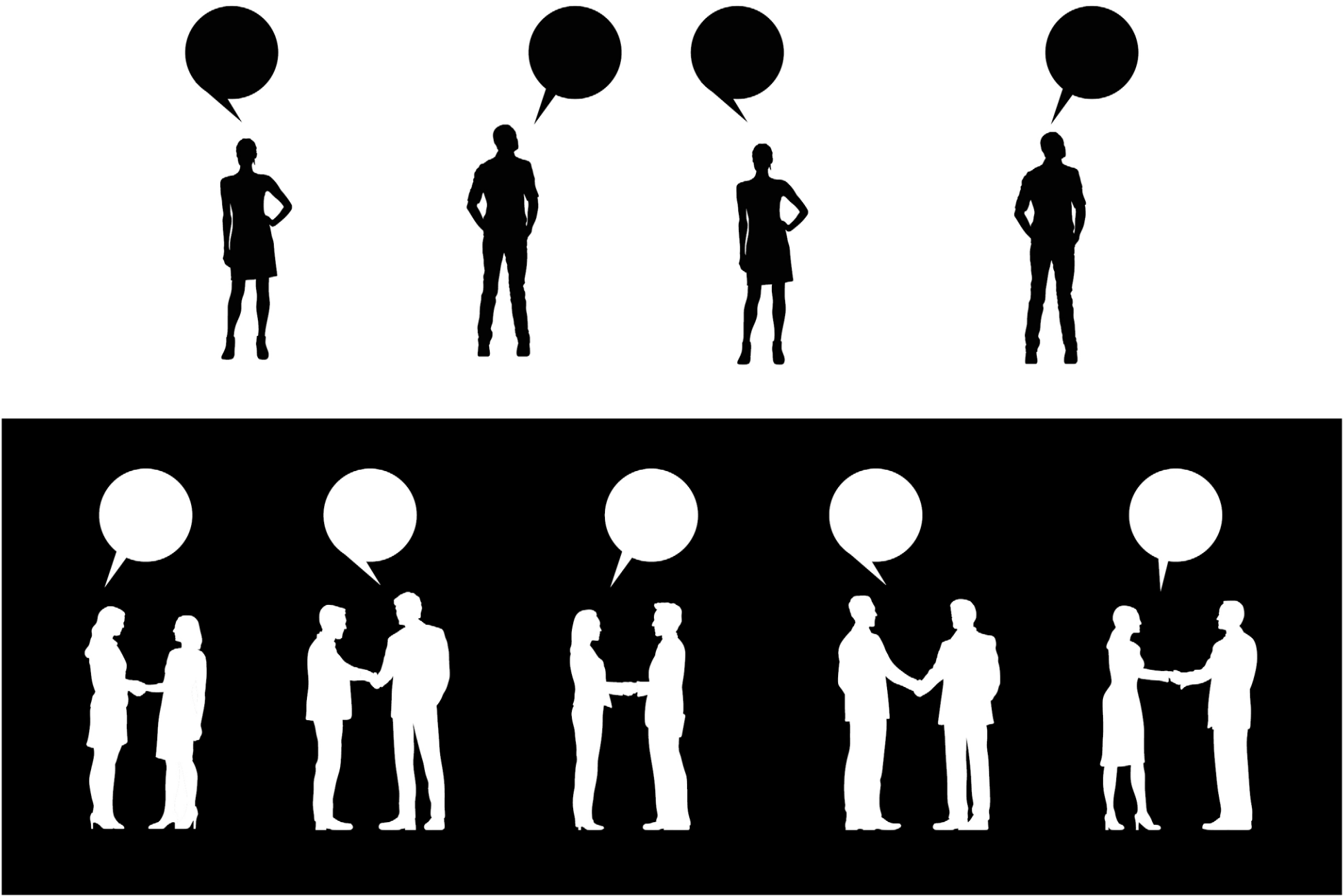
Governance Challenge





# Adaptive Strategic Framework

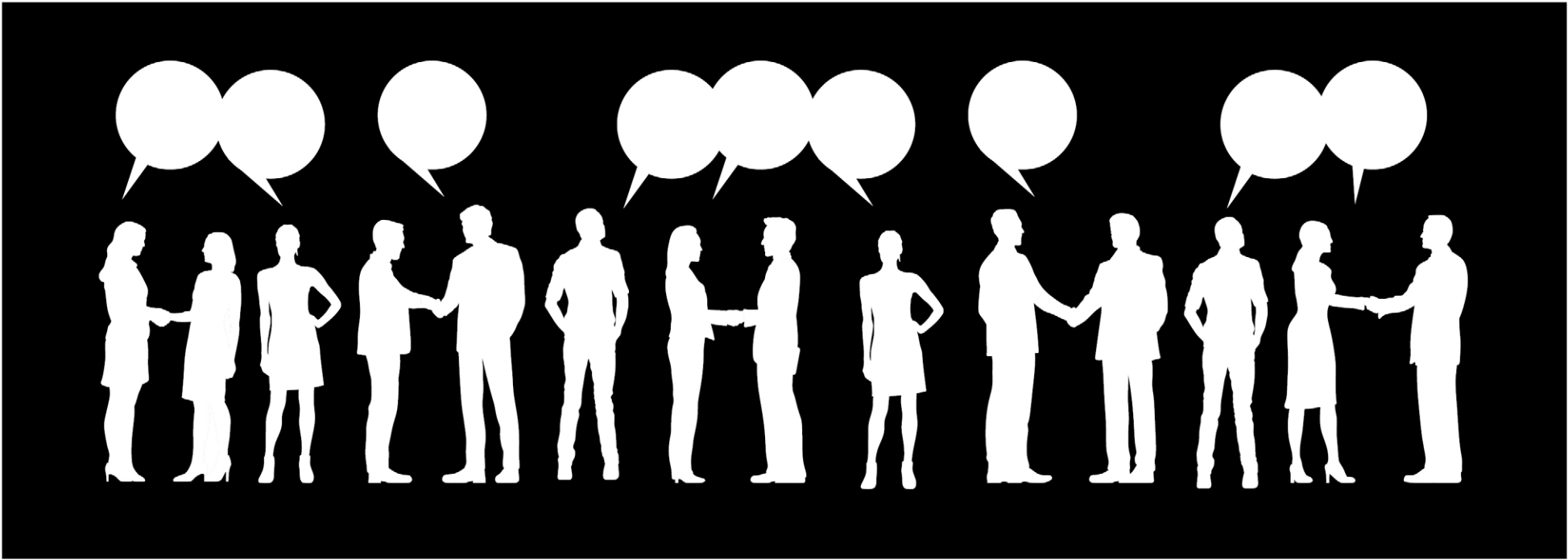
Governance Challenge





# Adaptive Strategic Framework

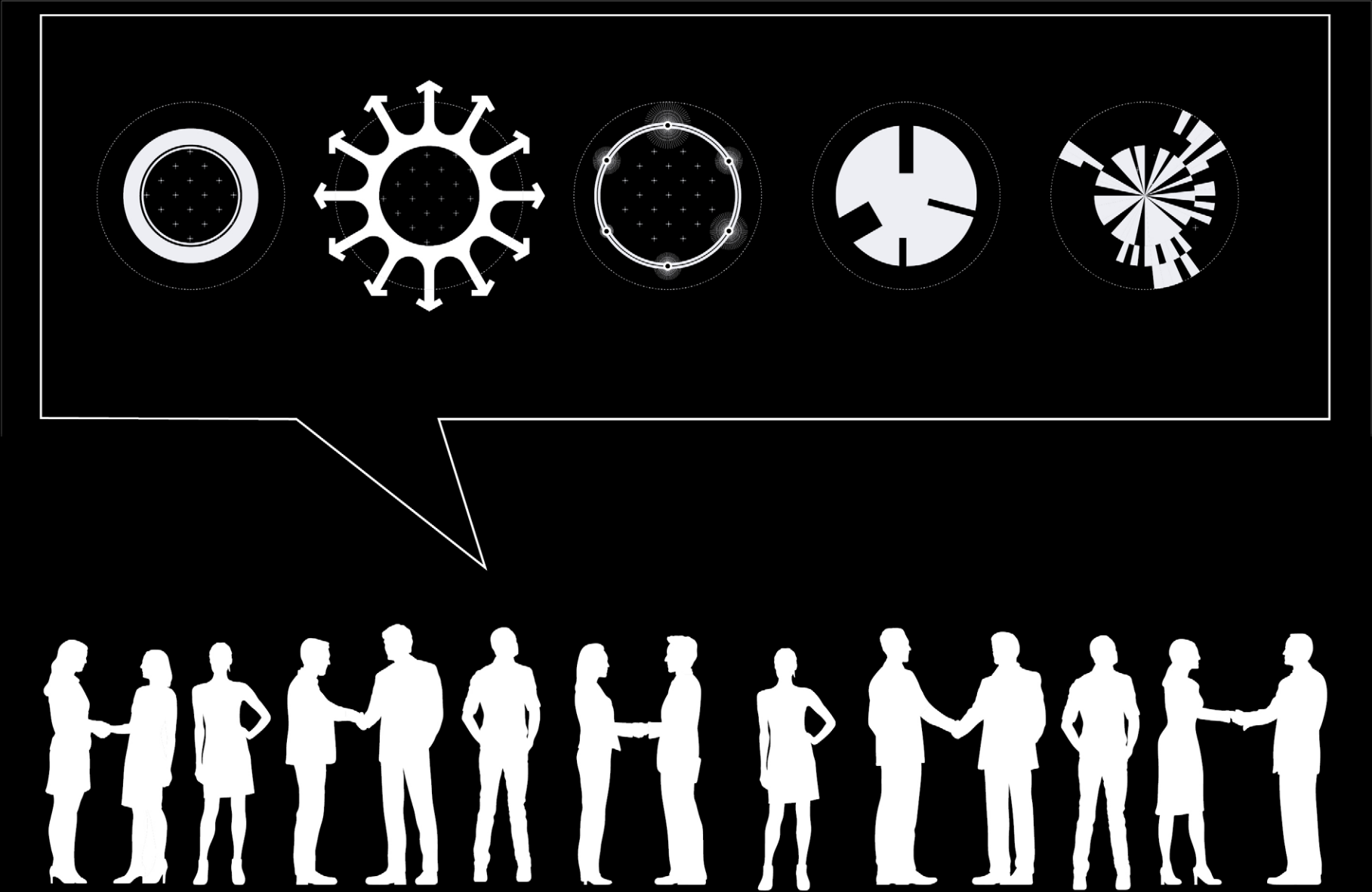
Governance Challenge





# Adaptive Strategic Framework

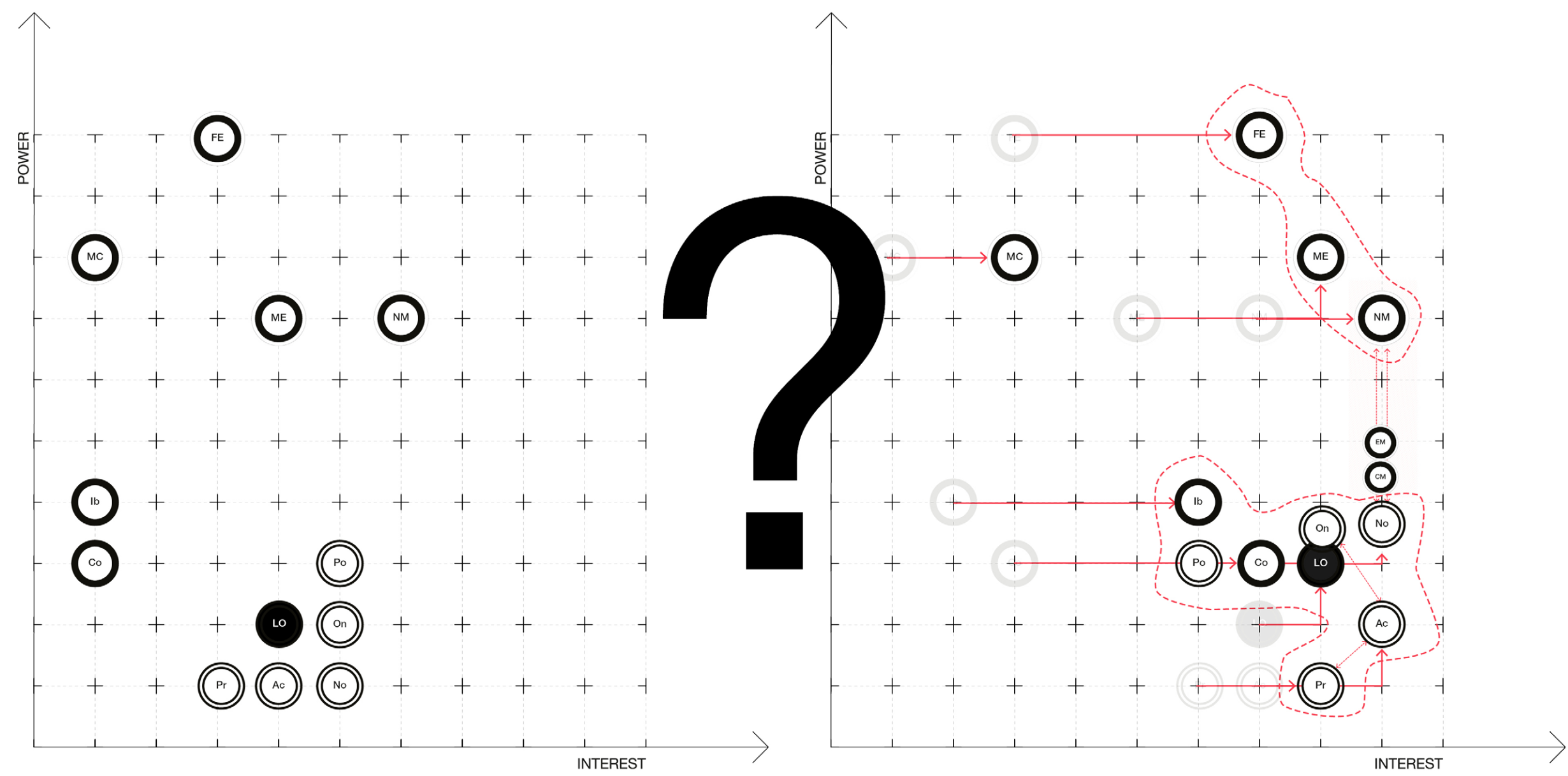
Governance Challenge





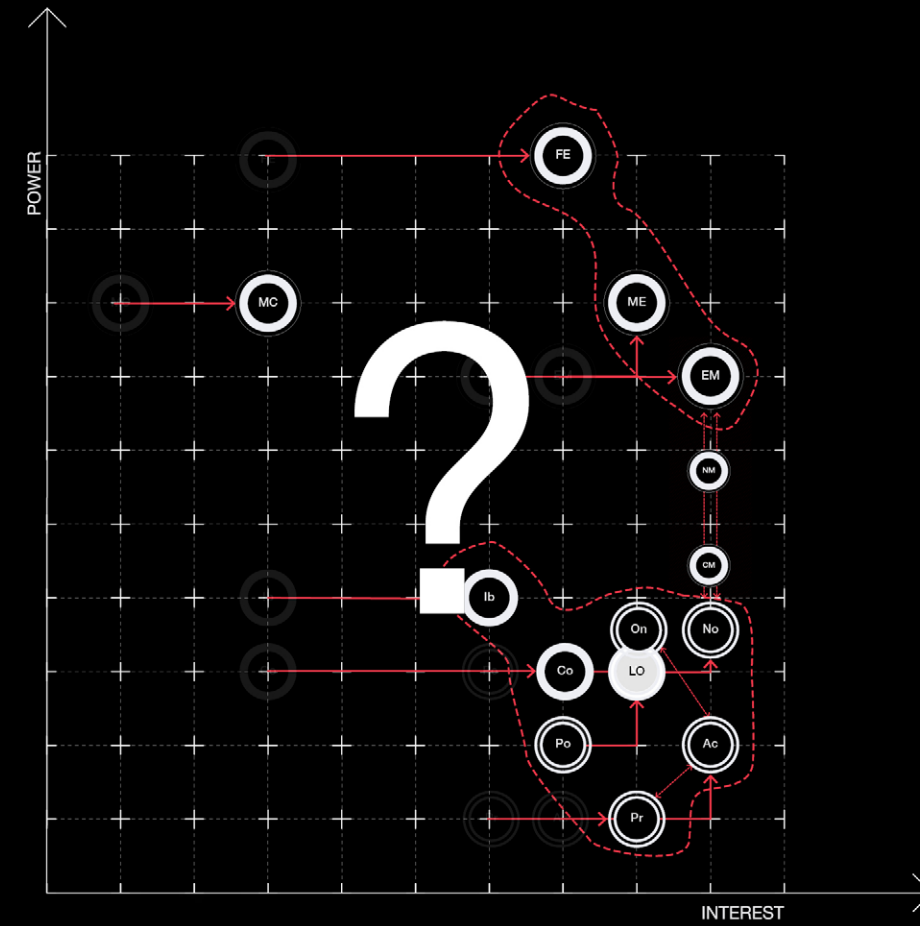
# Adaptive Strategic Framework

Governance Challenge



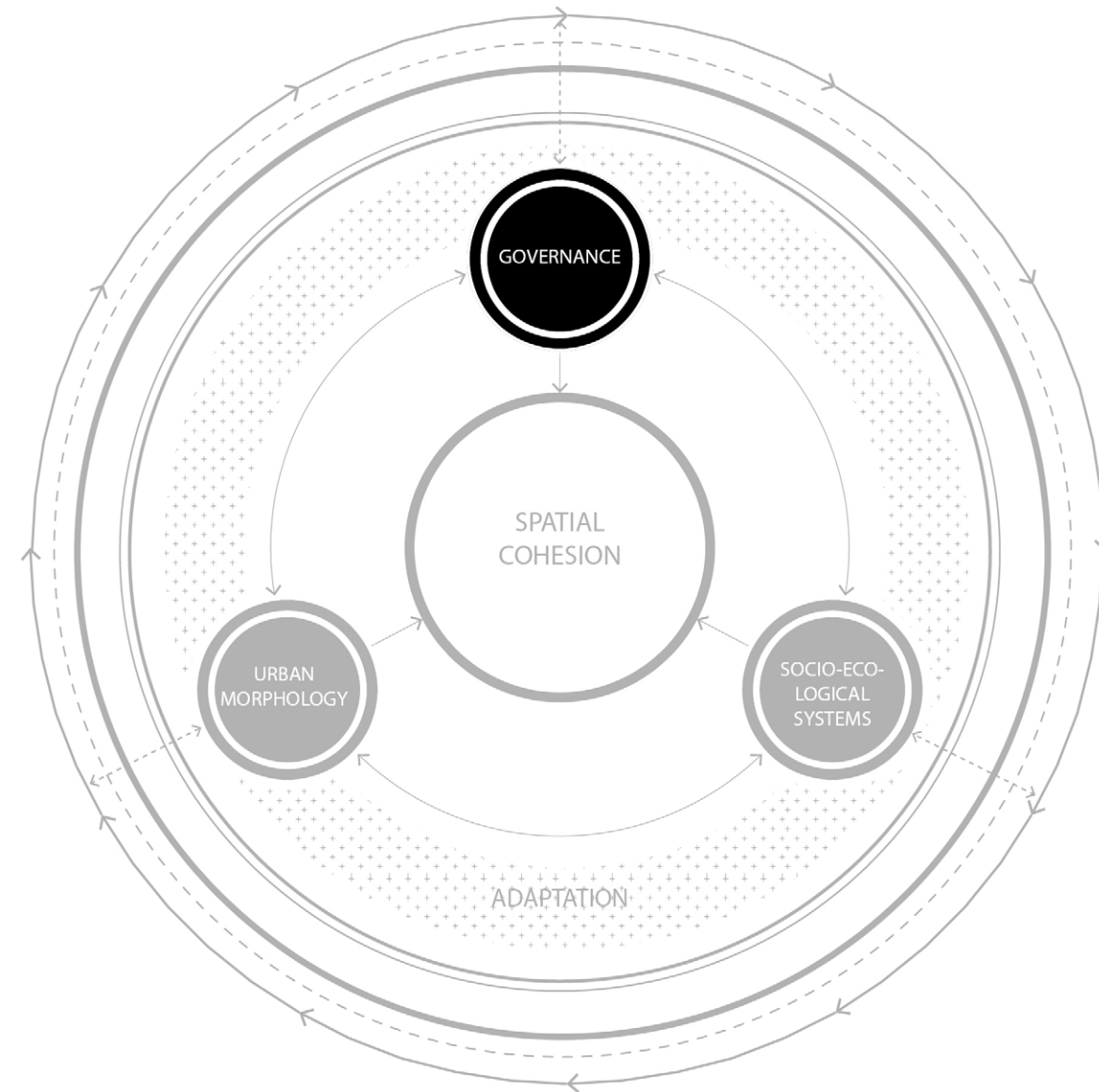


# We need Goals



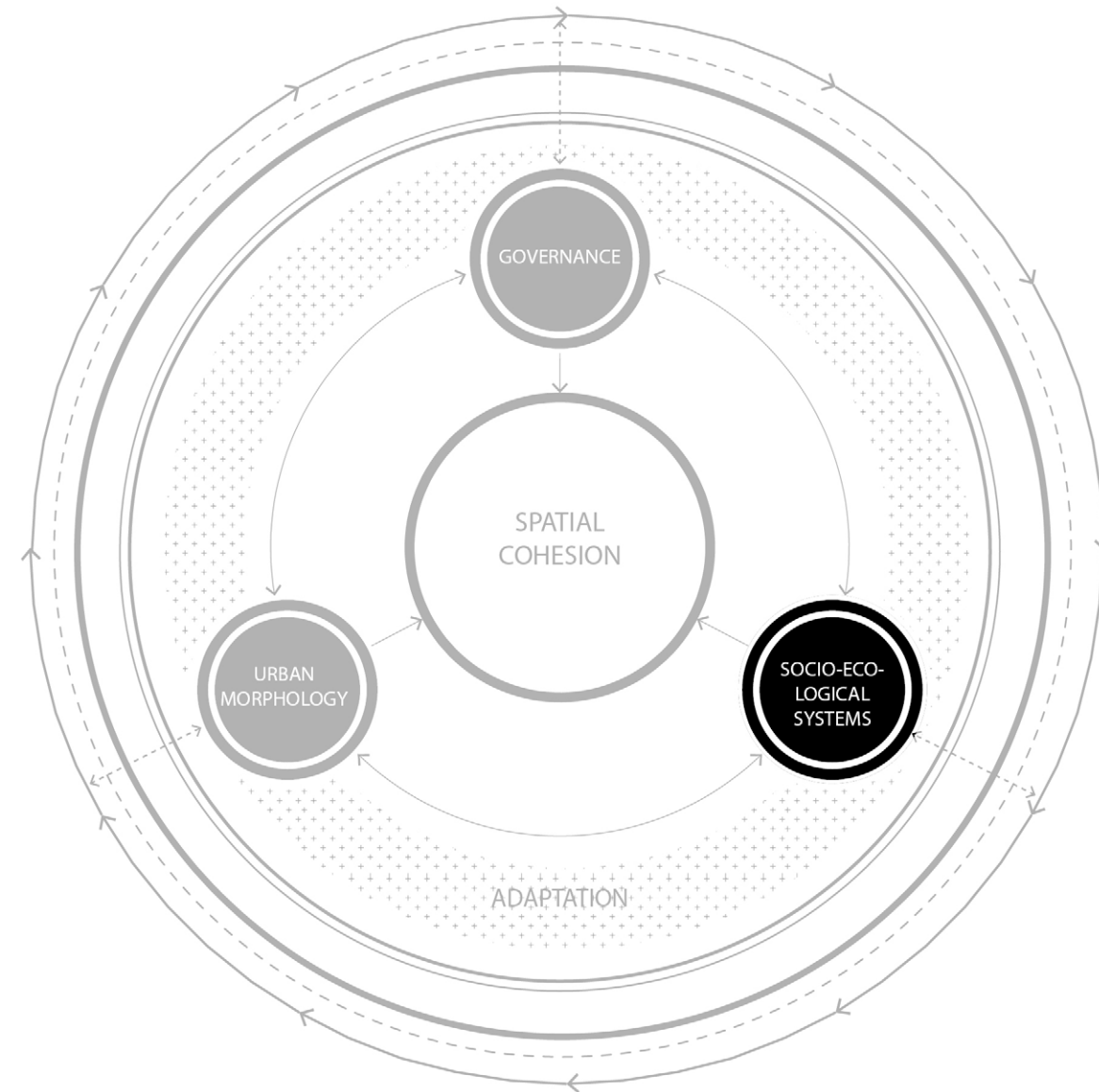


# Governance System



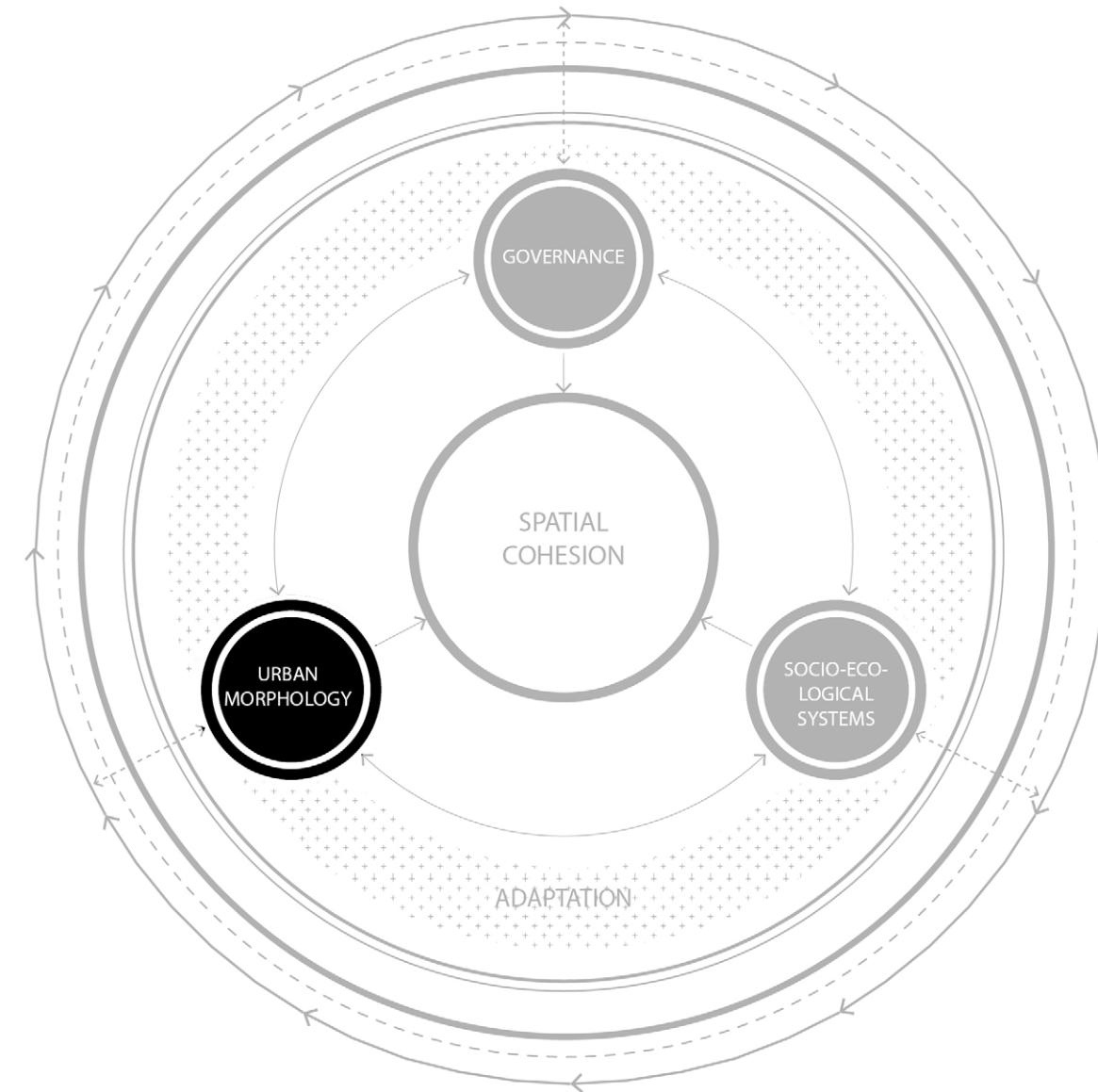


## Socio-ecological system





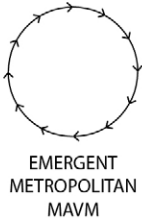
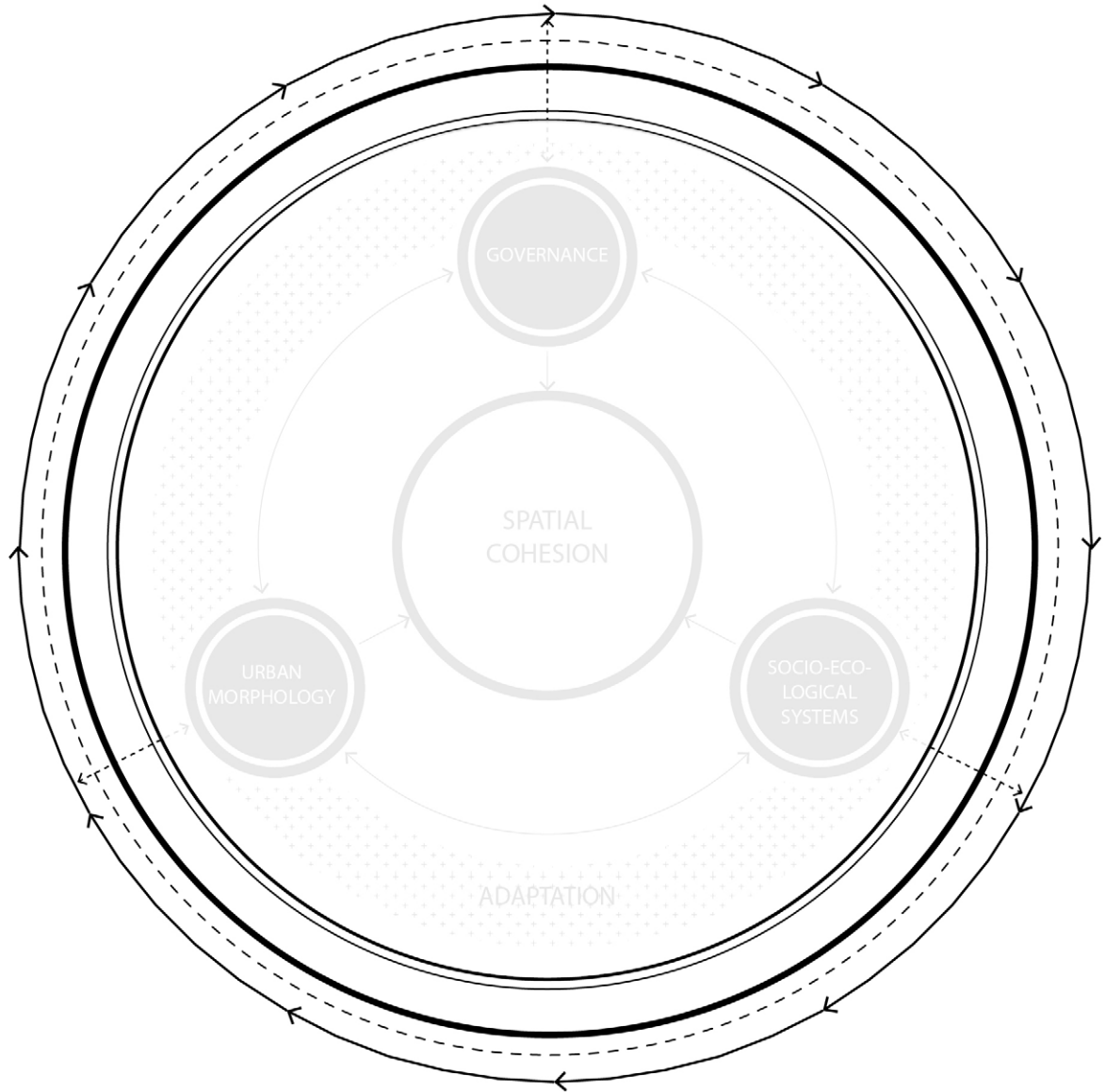
# Urban Morphological







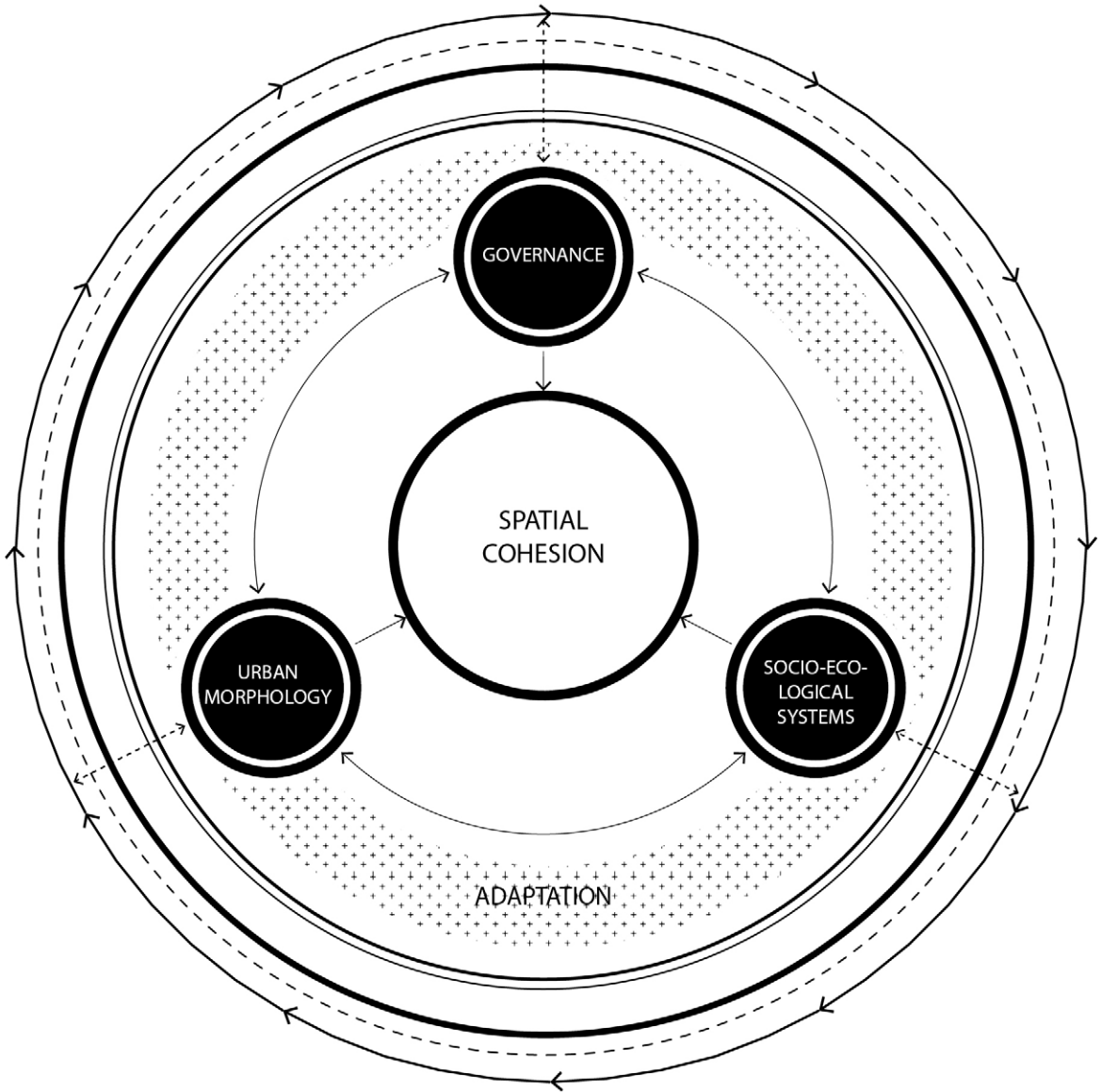
Across Scales



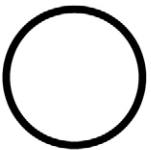




# Adaptive Strategic Planning Framework



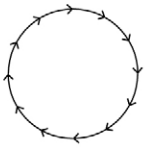
SCOPE: COMPLEX  
ADAPTIVE SYSTEM



OUTCOME



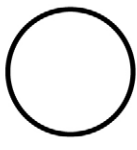
CONCEPTS



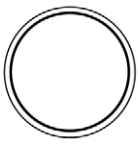
EMERGENT  
METROPOLITAN  
MAVM



MUNICIPAL  
LEVEL



INTER-MUNICIPAL  
COLLABORATIVE  
SYSTEM

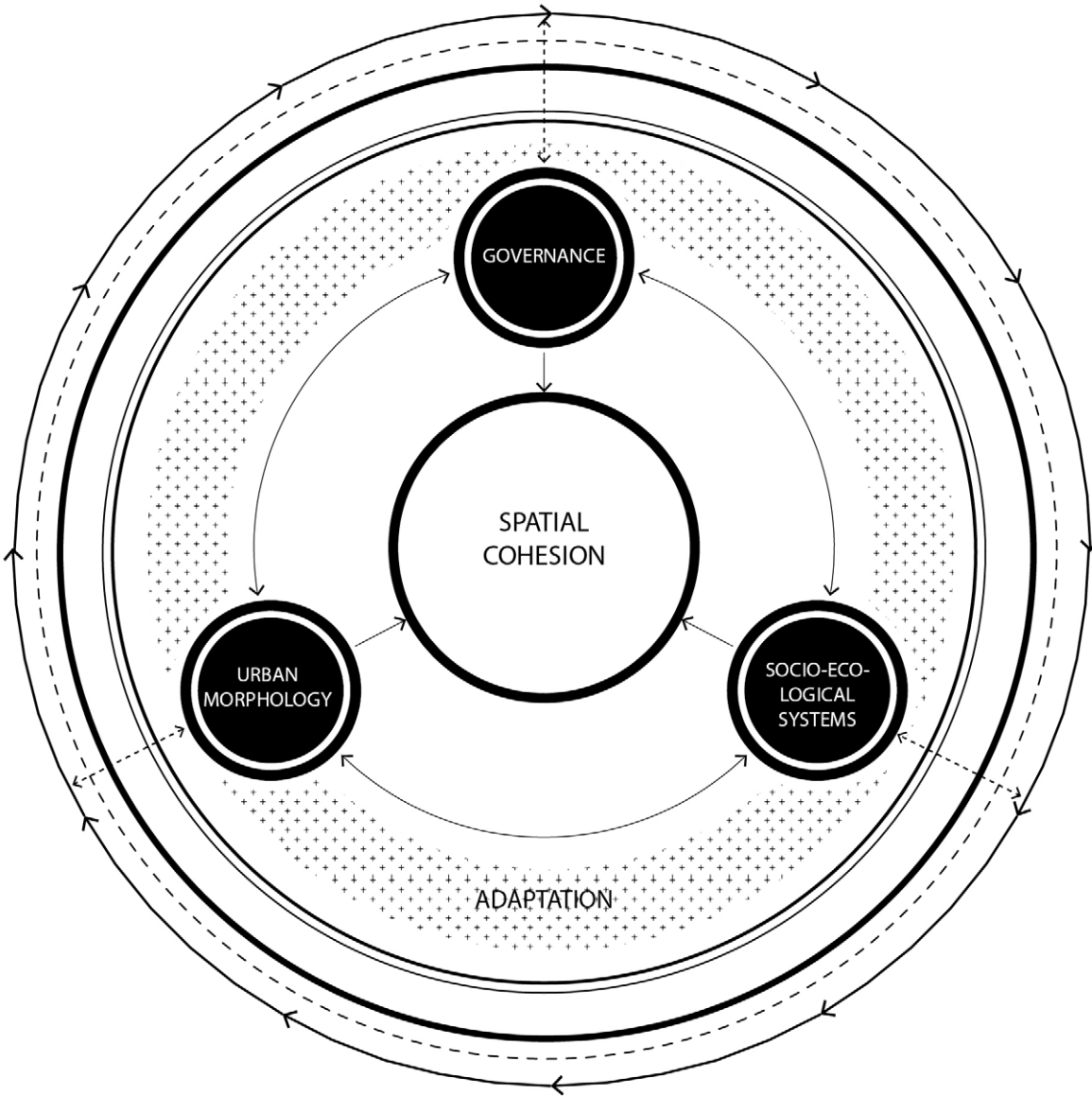



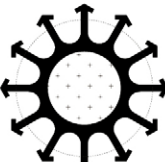
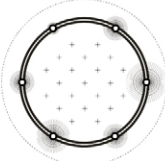


NEIGHBORHOOD  
LEVEL





5 Systemic Goals



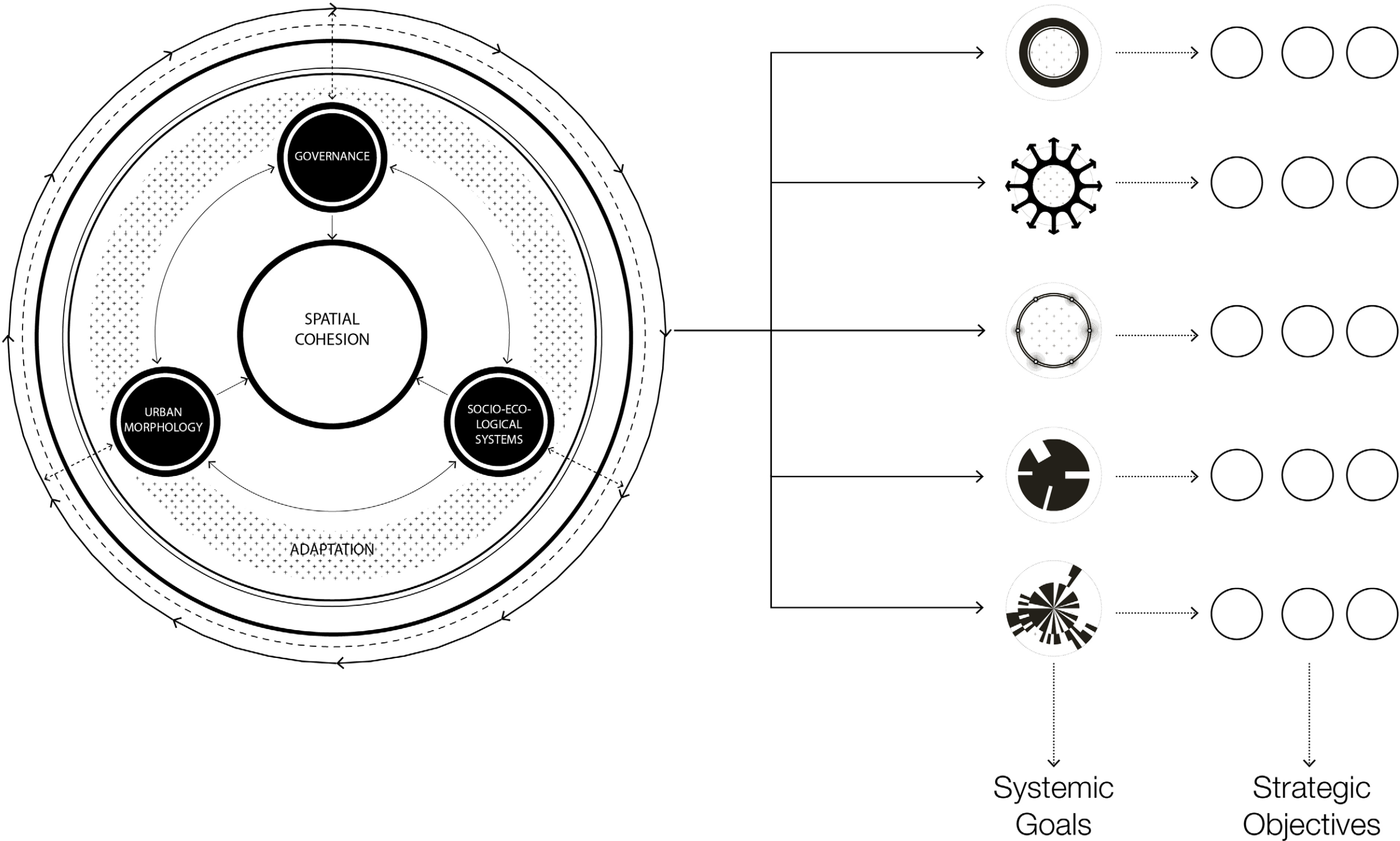
-  SG1. Water Landscape Integration and Management
-  SG2. Green Infrastructure System and Quality of Public and Open Space
-  SG3. Densification of the Built System
-  SG4. Productive Landscapes and Means of Production
-  SG5. Transport and Mobility System

Principles to guide development





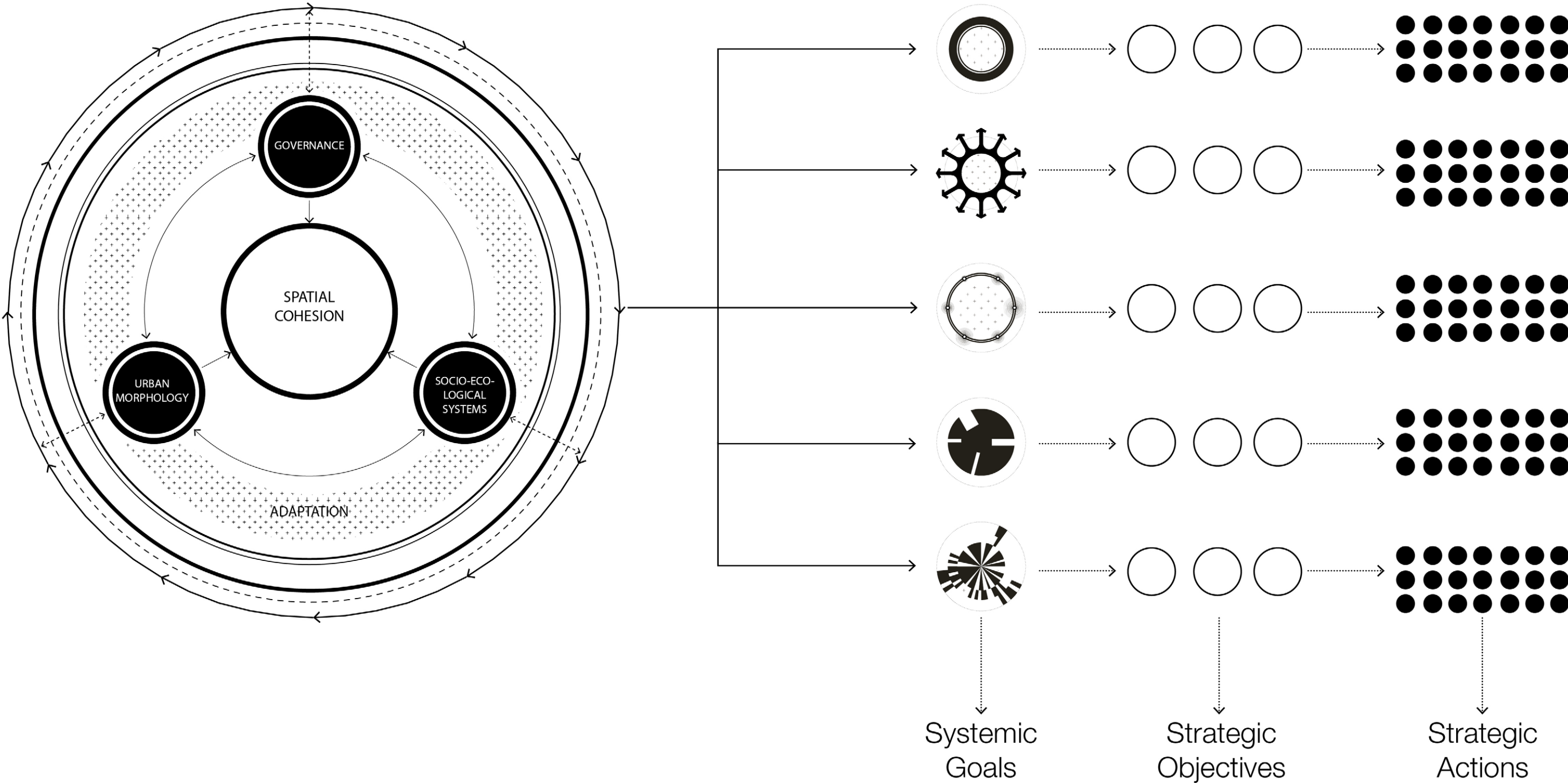
5 Systemic Goals







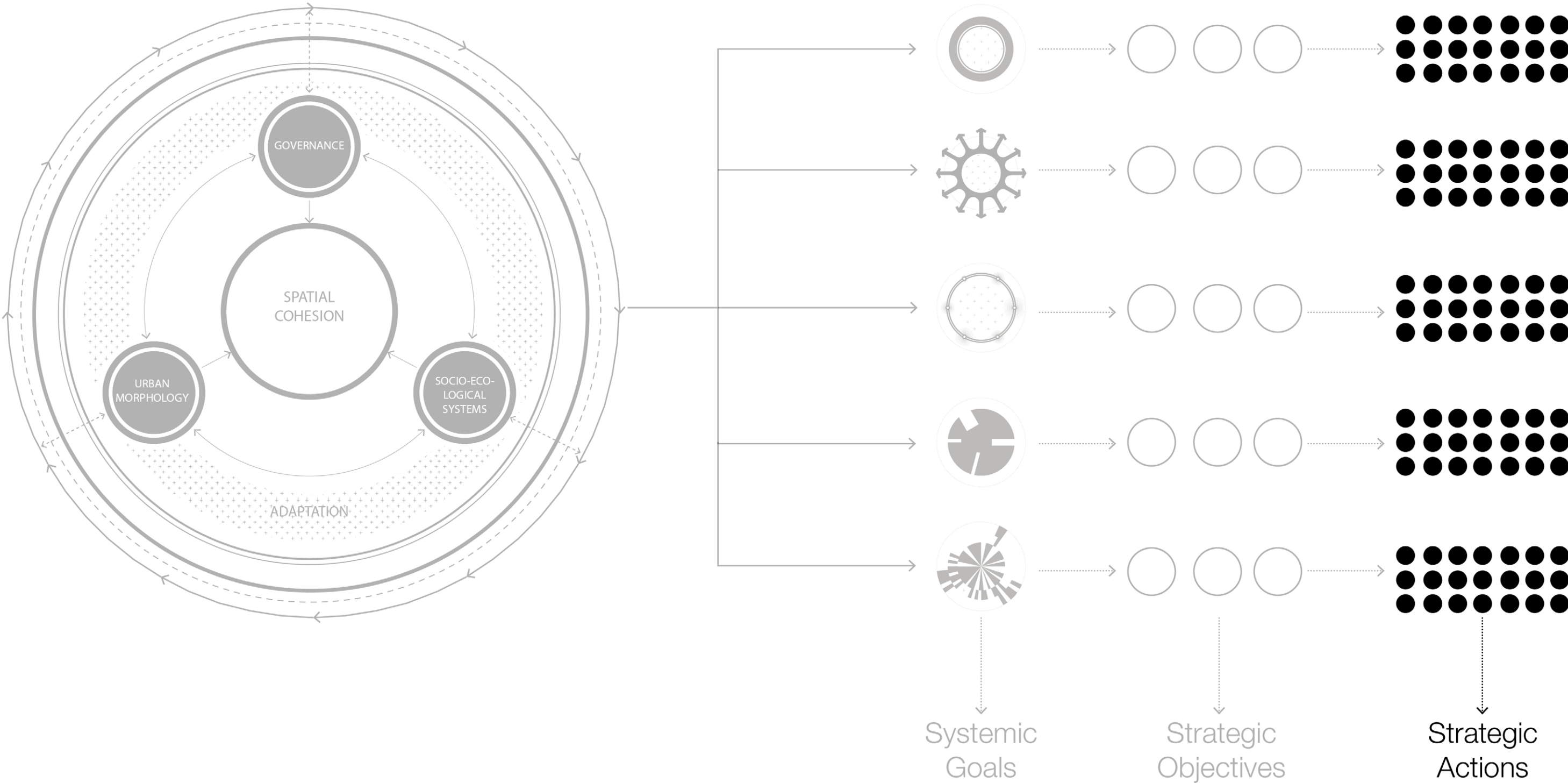
5 Systemic Goals







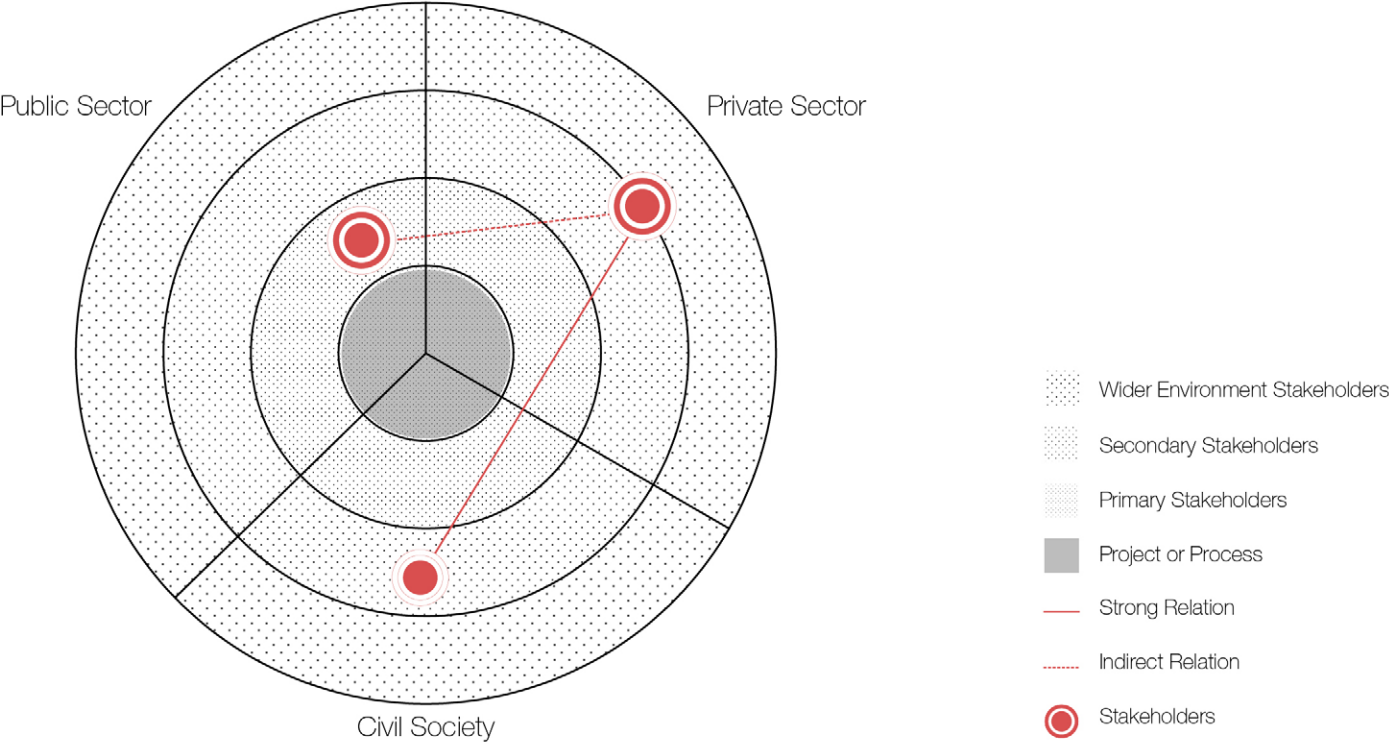
5 Systemic Goals





Strategies and Actions

Spatial Actions Operability

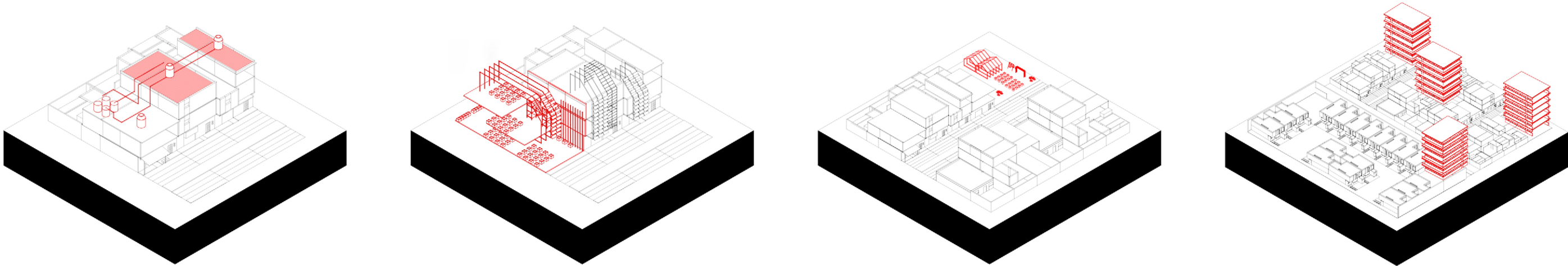


Participation of Involved Actors



# Strategies and Actions

Spatial Actions Operability



MICRO

SMALL

MEDIUM

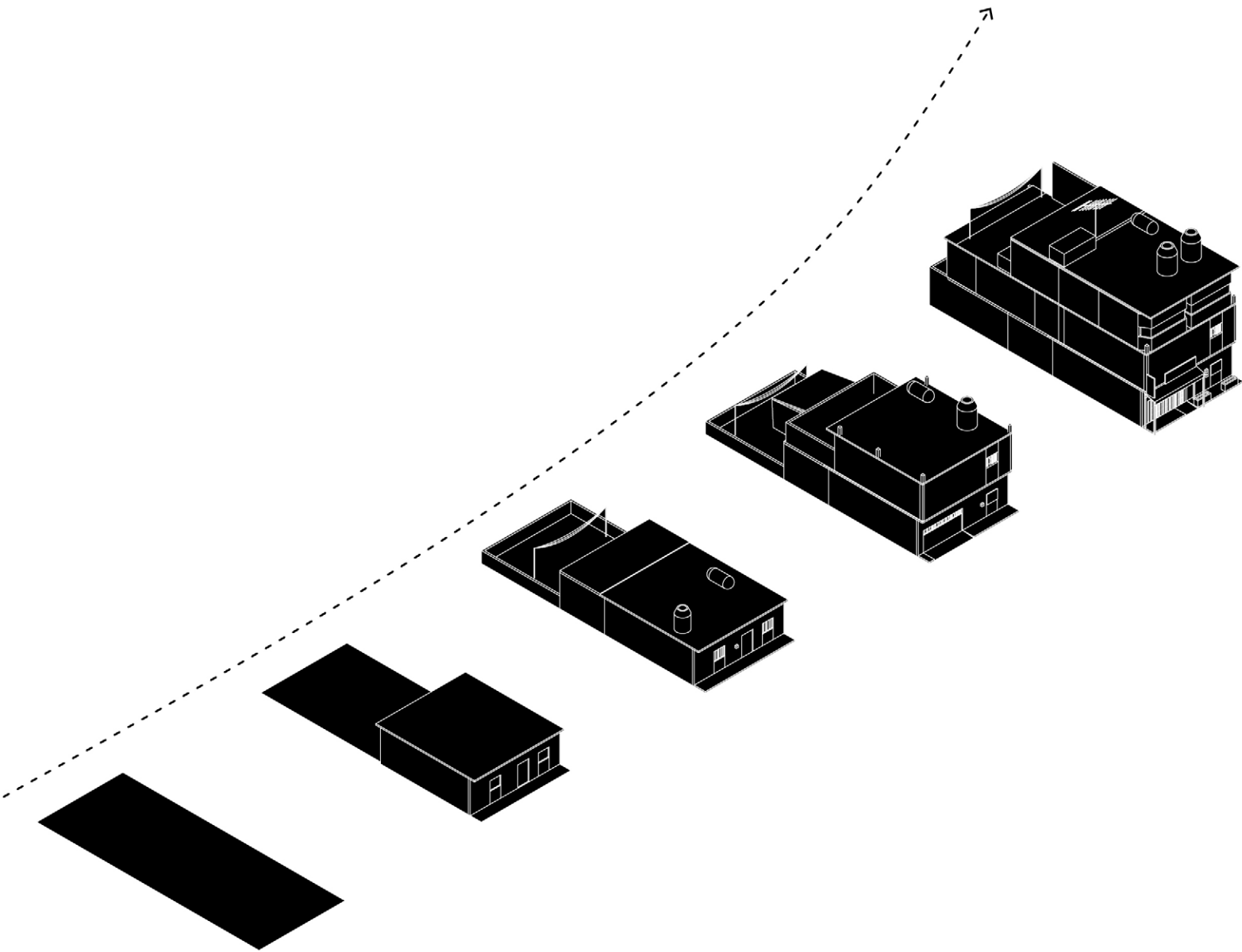
LARGE



Scale of Action

# Strategies and Actions

Spatial Actions Operability

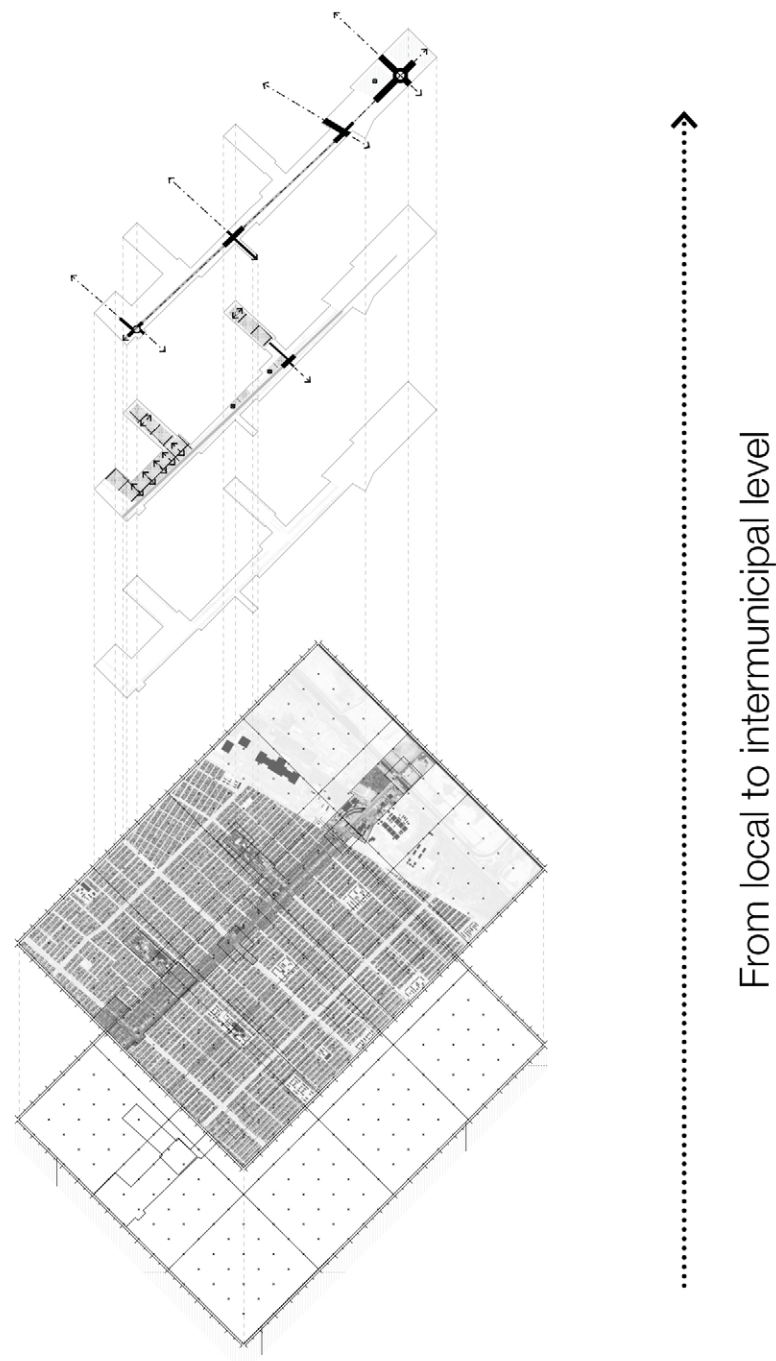


Time of Implementation



# Strategies and Actions

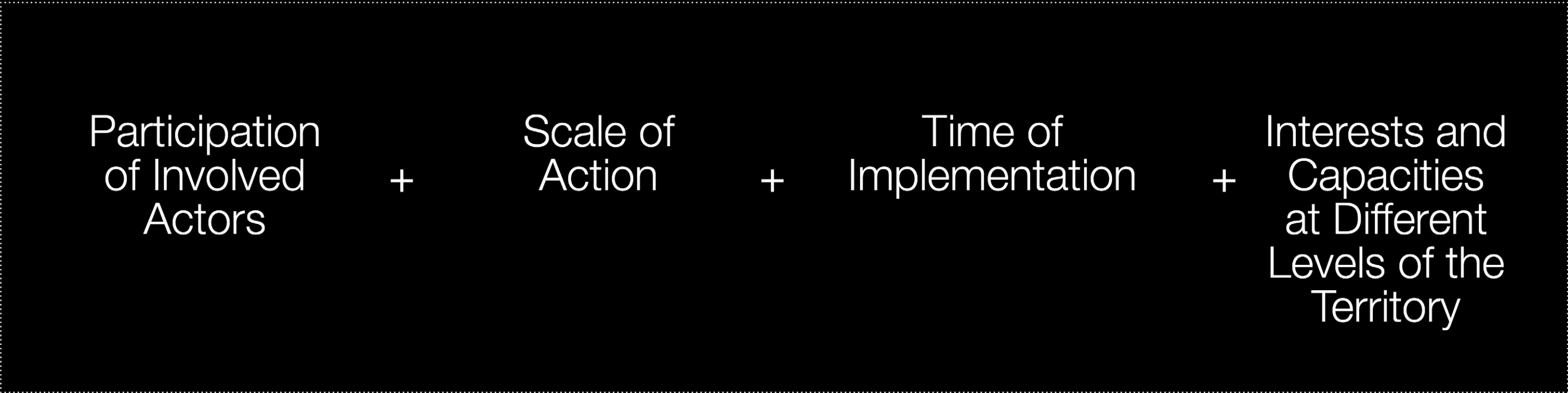
Spatial Actions Operability



Interests and Capacities

# Adaptive Strategic Framework

Spatial Actions Operability



Correlation Between Variables



# Strategies and Actions

Water Landscape Integration and Management





# Strategies and Actions

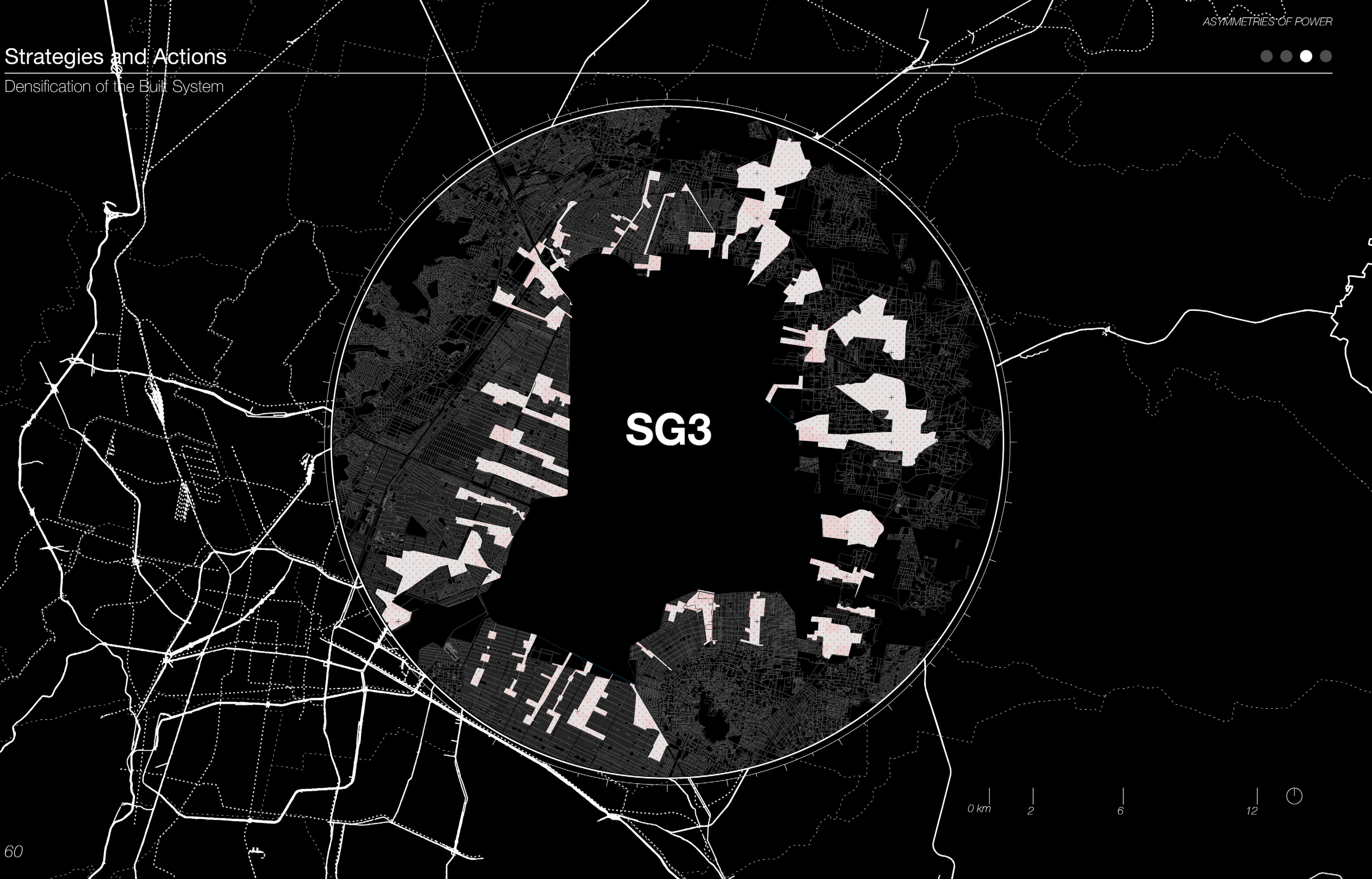
Green Infrastructure System and Quality of Public and Open Space





Strategies and Actions

Densification of the Built System





Strategies and Actions

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Productive Landscapes





Strategies and Actions

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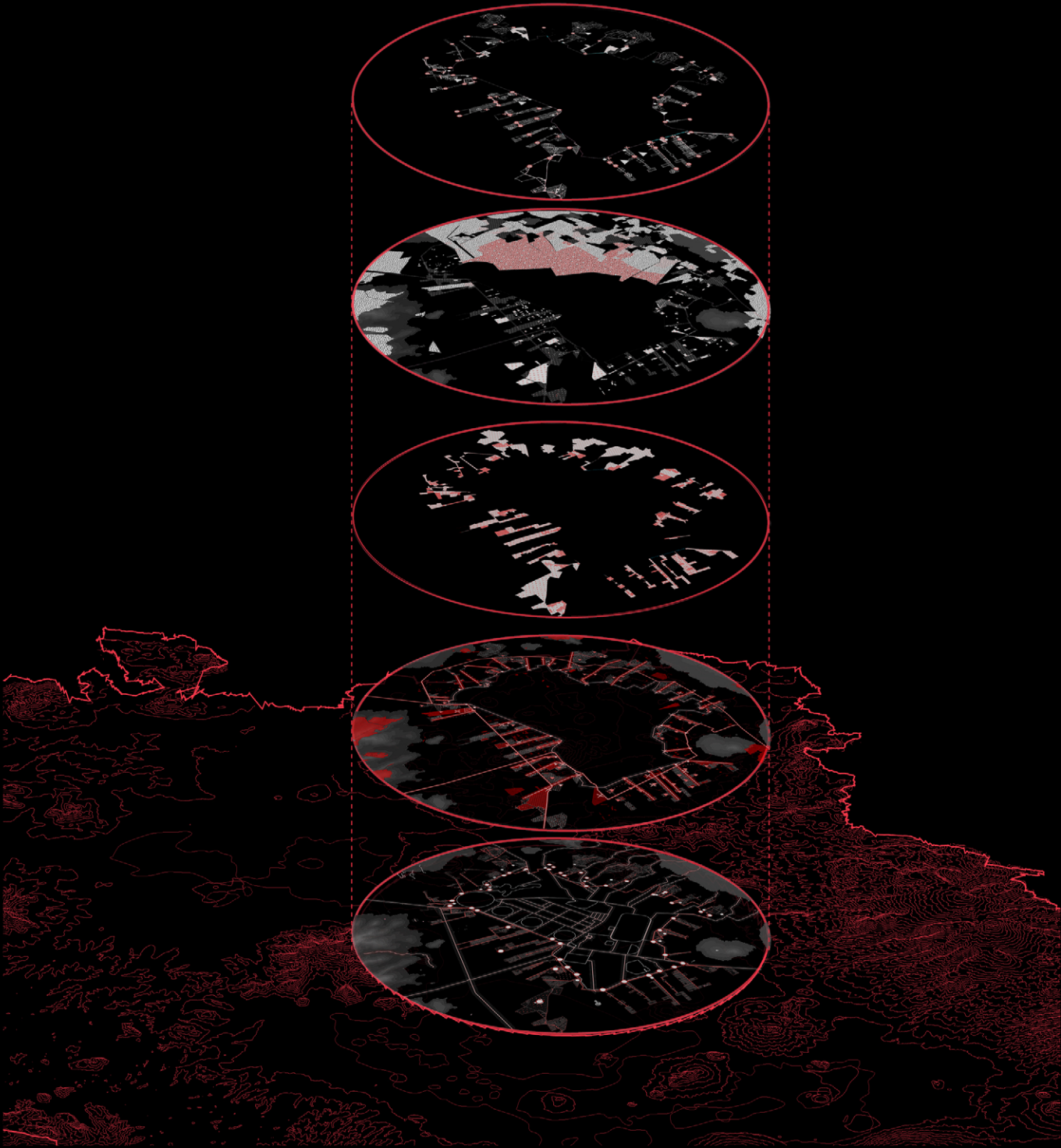
Transport and Mobility System





# Strategies and Actions

5 Layers



XL Potentials



**Expand planning scope**  
**Adaptive planning framework**  
**Local perspective**  
**Spatial cohesion**



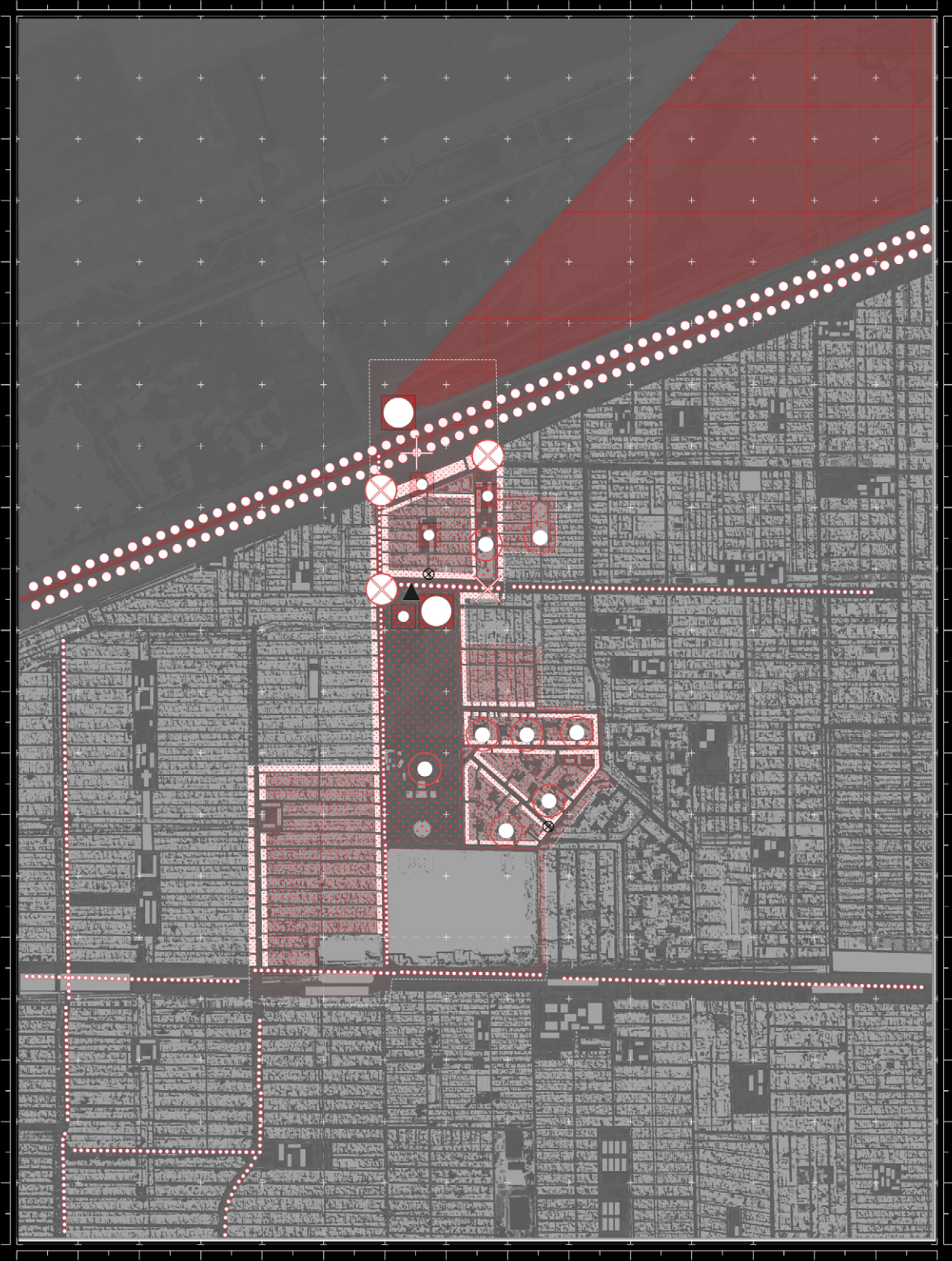




# DESIGN AT THE LOCAL LEVEL

Design Local Level

Local Perspective



Legend

SG1

Mi - Micro Scale  
3.2 - 4.2 - 10.3

S - Small Scale  
5.2 - 11.3  
11.3

M - Medium Scale  
6.2 - 12.3 - 13.3  
7.2 - 8.2

L - Large Scale  
1.1  
2.1 - 16.3  
9.2  
14.3  
15.3

SG4

Mi - Micro Scale  
42.2

S - Small Scale  
39.1 - 43.2 - 47.

M - Medium Scale  
40.1 - 44.2 - 48.

L - Large Scale  
41.1 - 49.3  
45.2  
46.2

SG2

Mi - Micro Scale  
17.1 - 18.1 - 26.3

S - Small Scale  
19.1 - 23.2

M - Medium Scale  
24.2  
20.1  
27.3  
28.3

L - Large Scale  
21.1  
22.1 - 33.3  
25.2  
29.3

SG5

S - Small Scale  
52.2 - 56.3

M - Medium Scale  
50.1  
53.2 - 57.3

L - Large Scale  
51.1 - 60.3  
54.2  
55.2  
58.3  
59.3

Inter-municipal connections

SG3

S - Small Scale  
33.2

M - Medium Scale  
31.1 - 34.2  
36.3

Local Potentials at Gate Ecatepec





Design Local Level

Local Perspective



(Source: Google maps, 2020) The images show the current state of the selected area.

# Scenario Construction



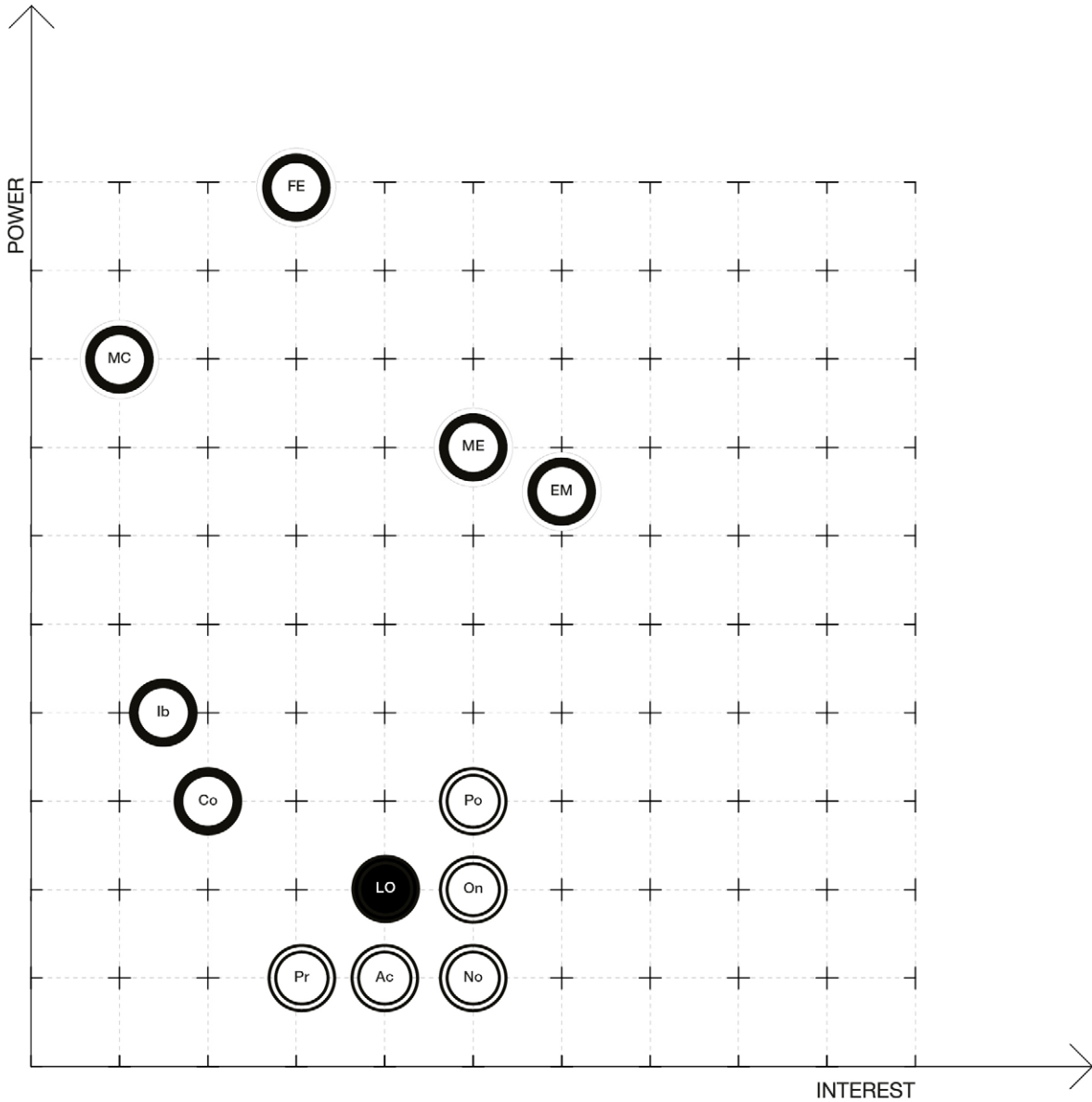
Current Detail Area





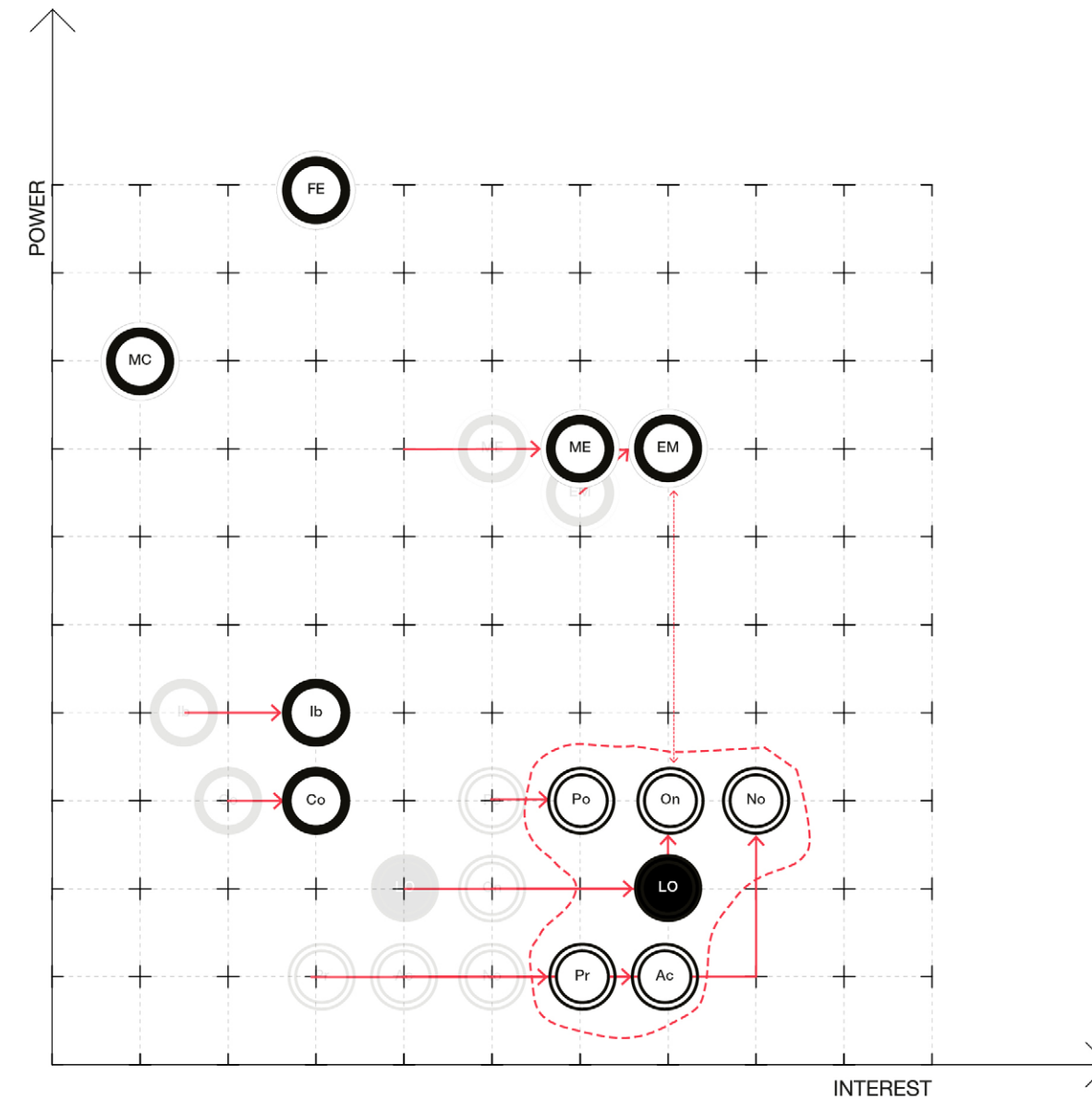


# Scenario Construction



Stakeholders Power and Interest

## Low Integration Scenario

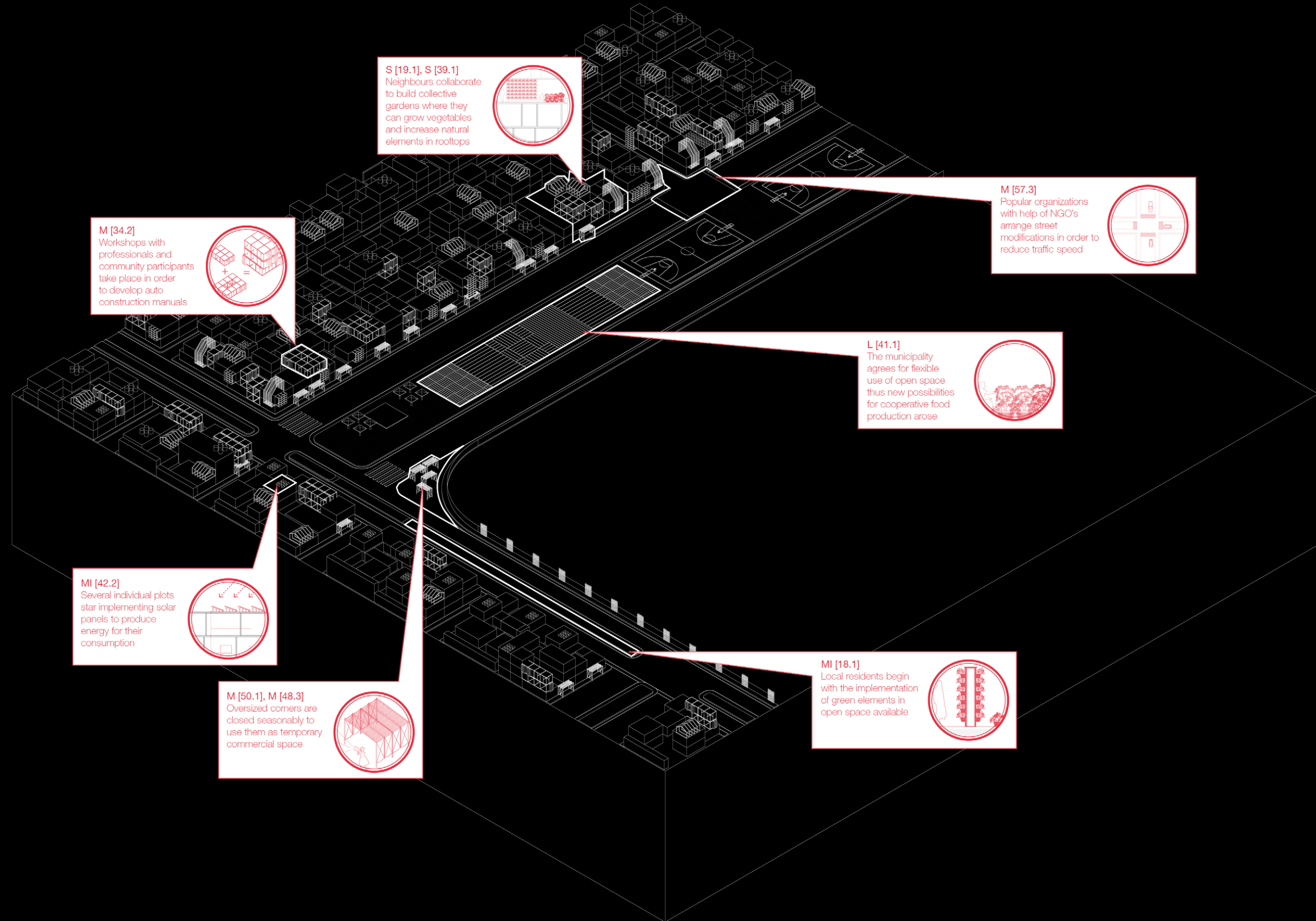


Stakeholders Power and Interest



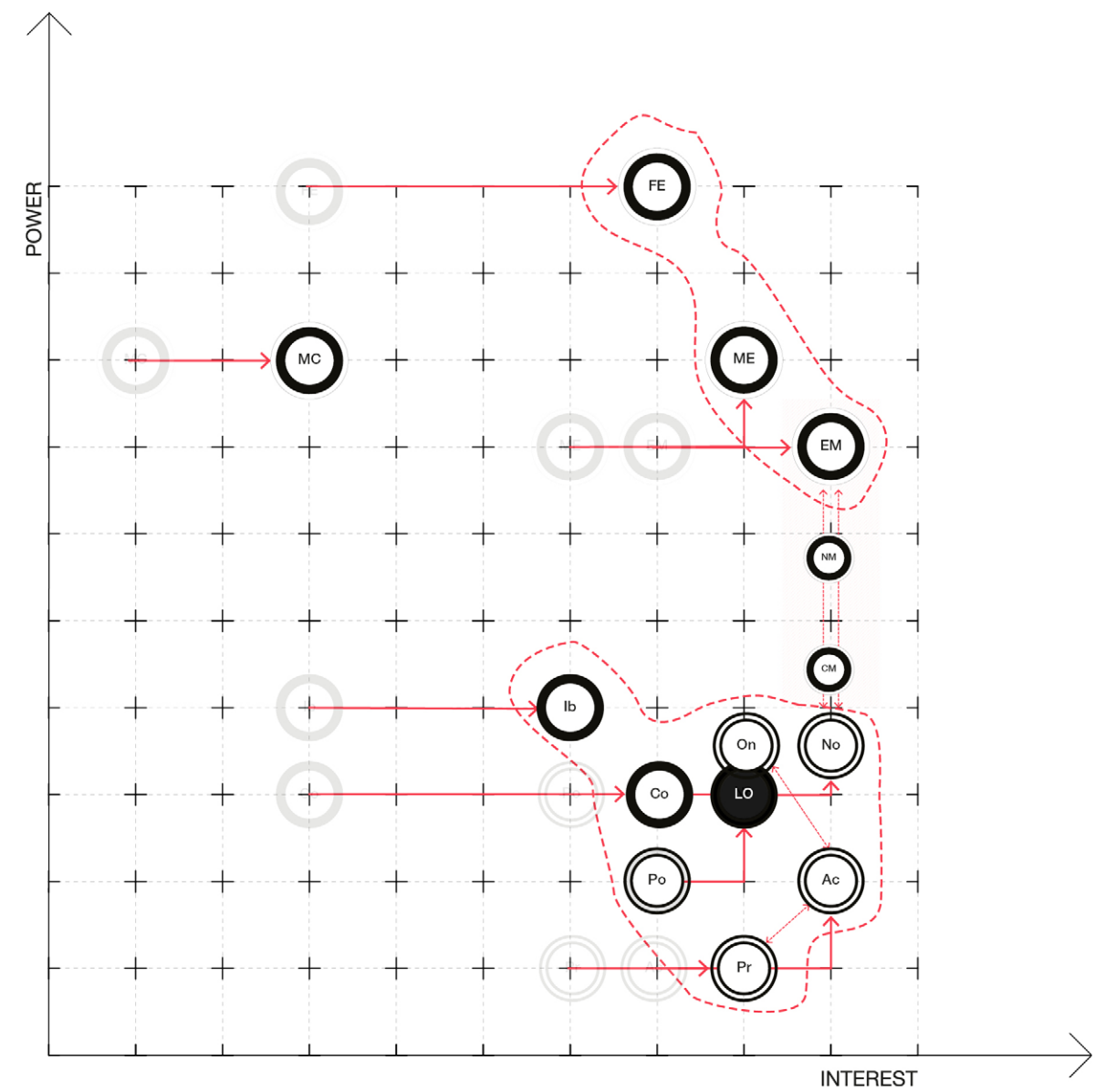
# Design Local Level

## Scenarios





# High Integration Scenario

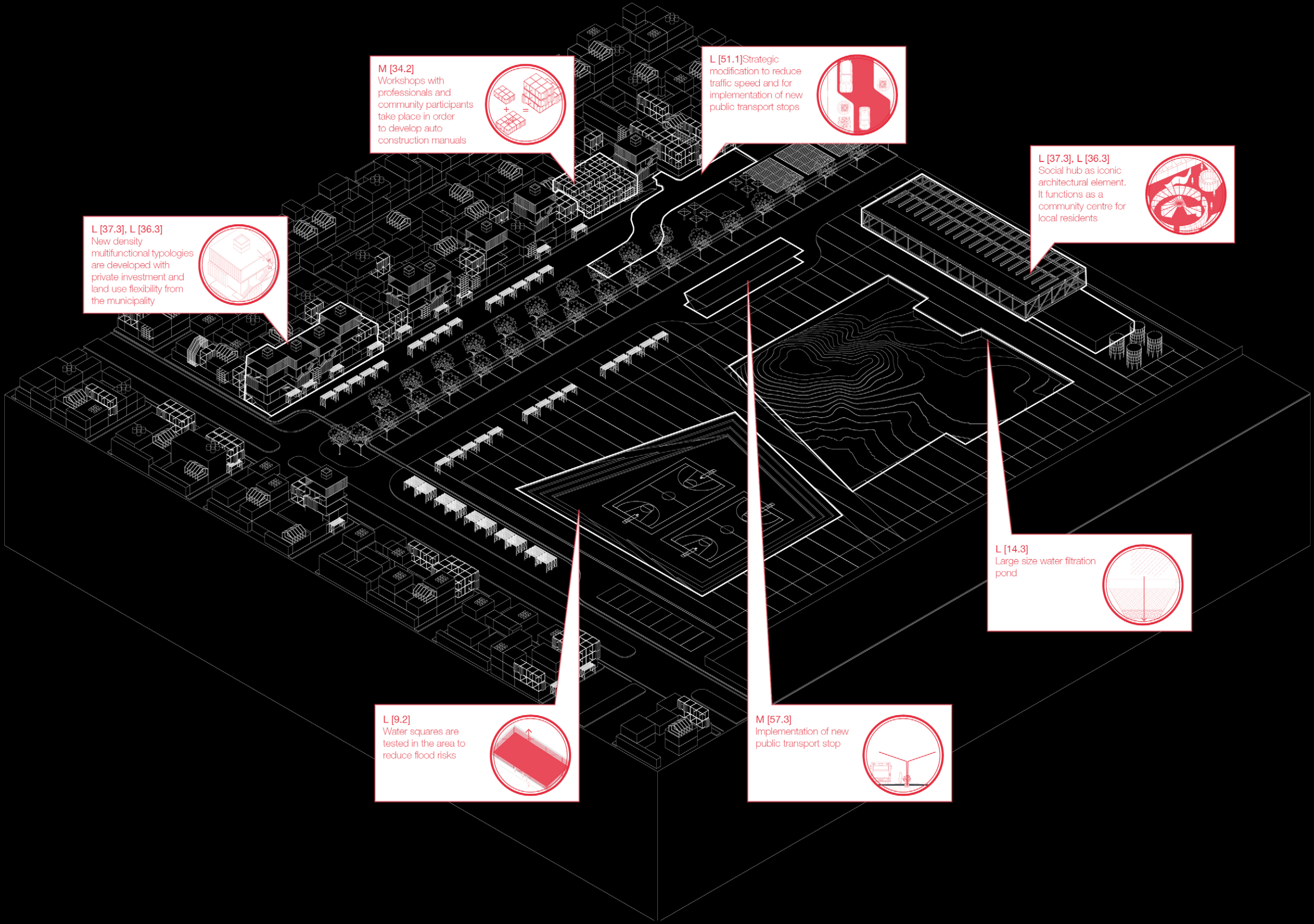


Stakeholders Power and Interest



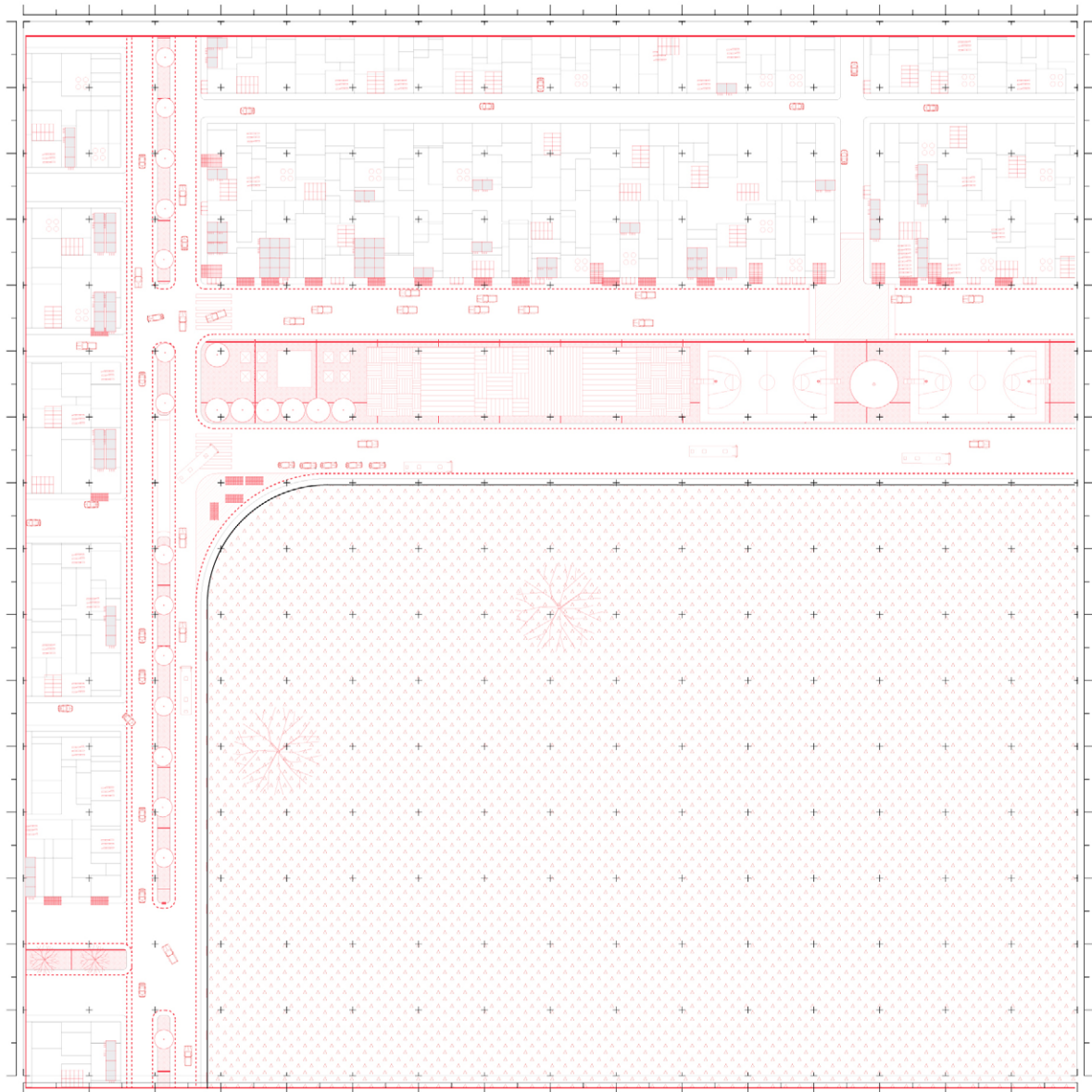
# Design Local Level

## Scenarios

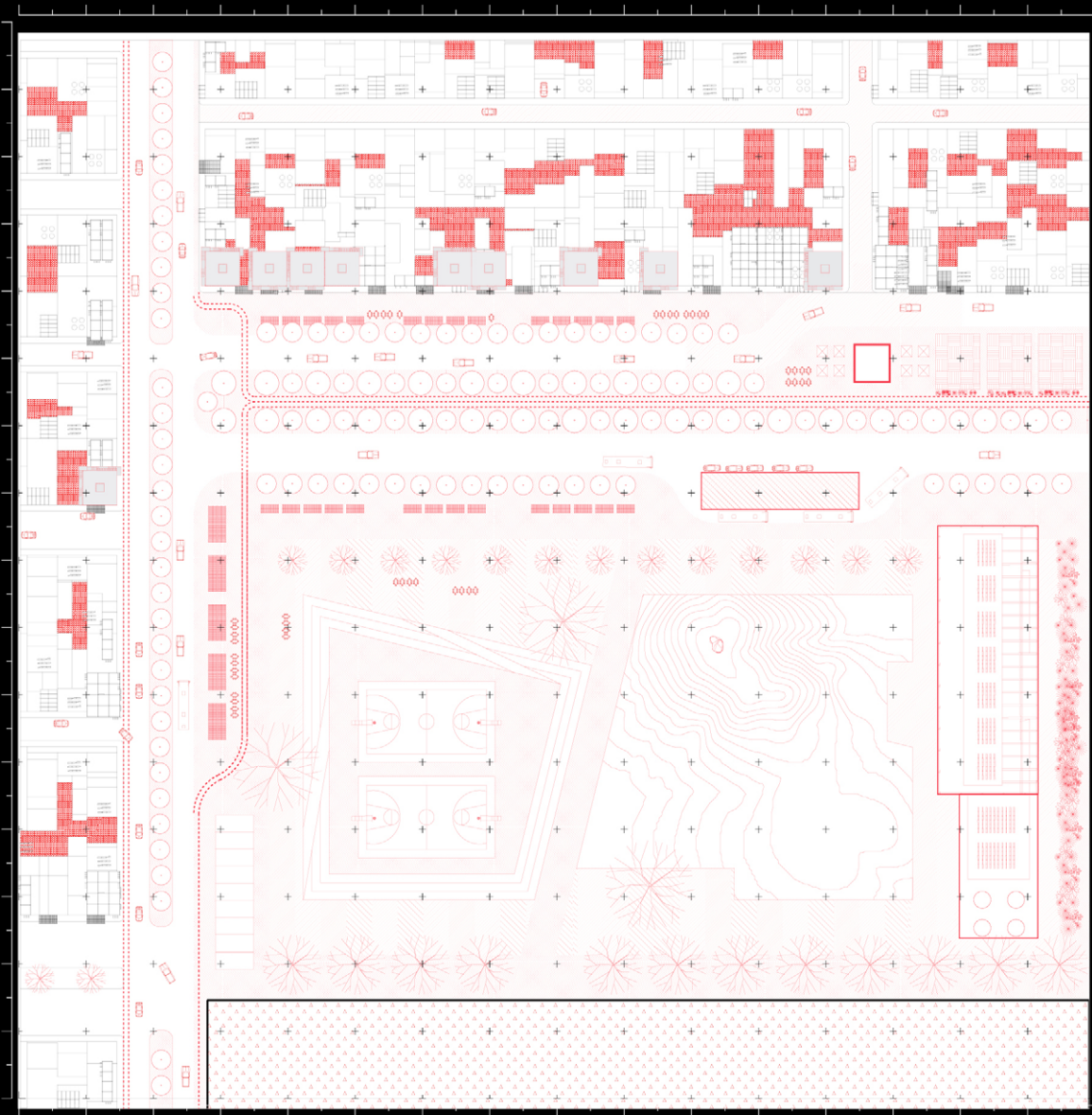




Levels of Transformation Reached



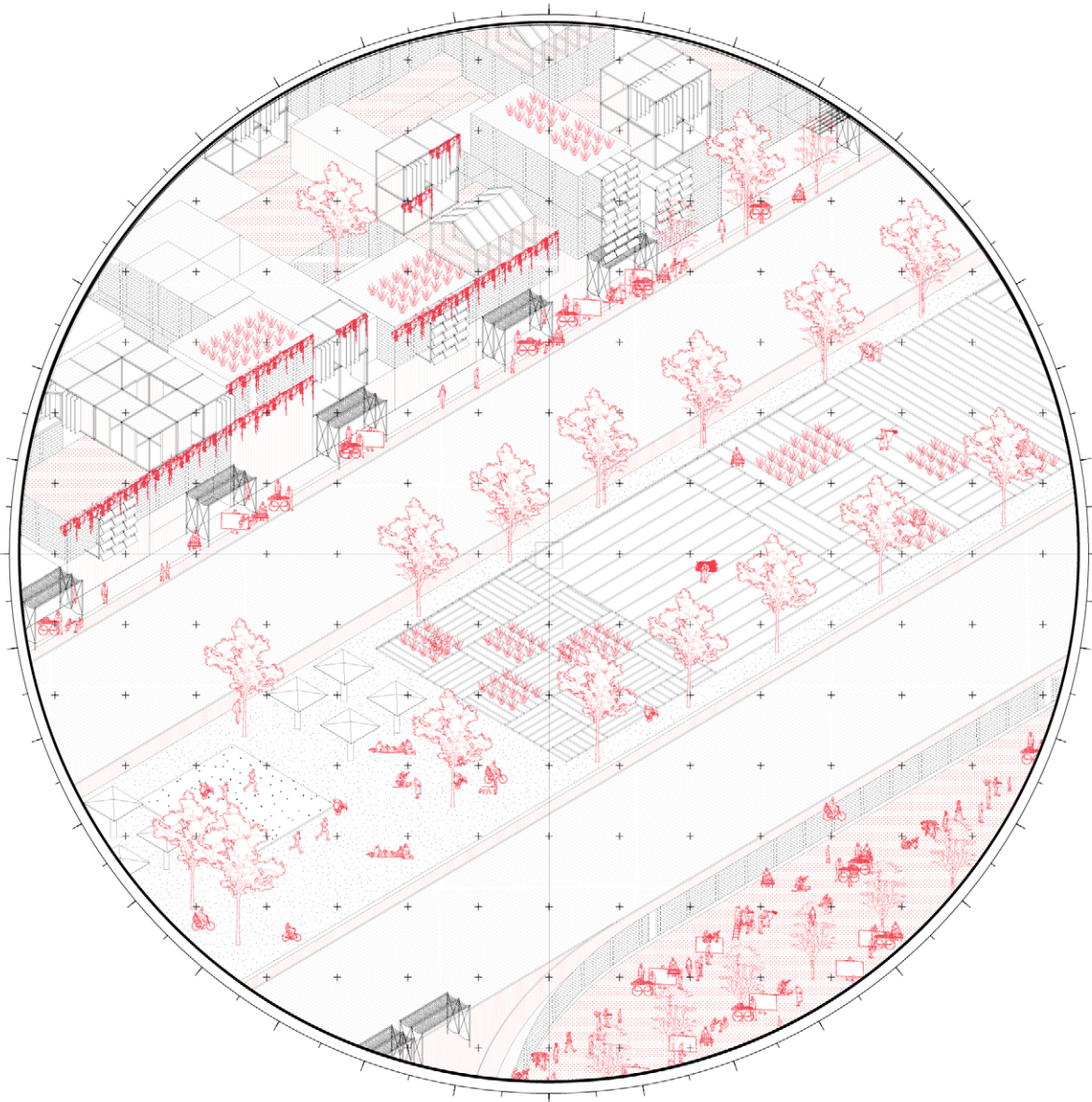
Low Integration Scenario



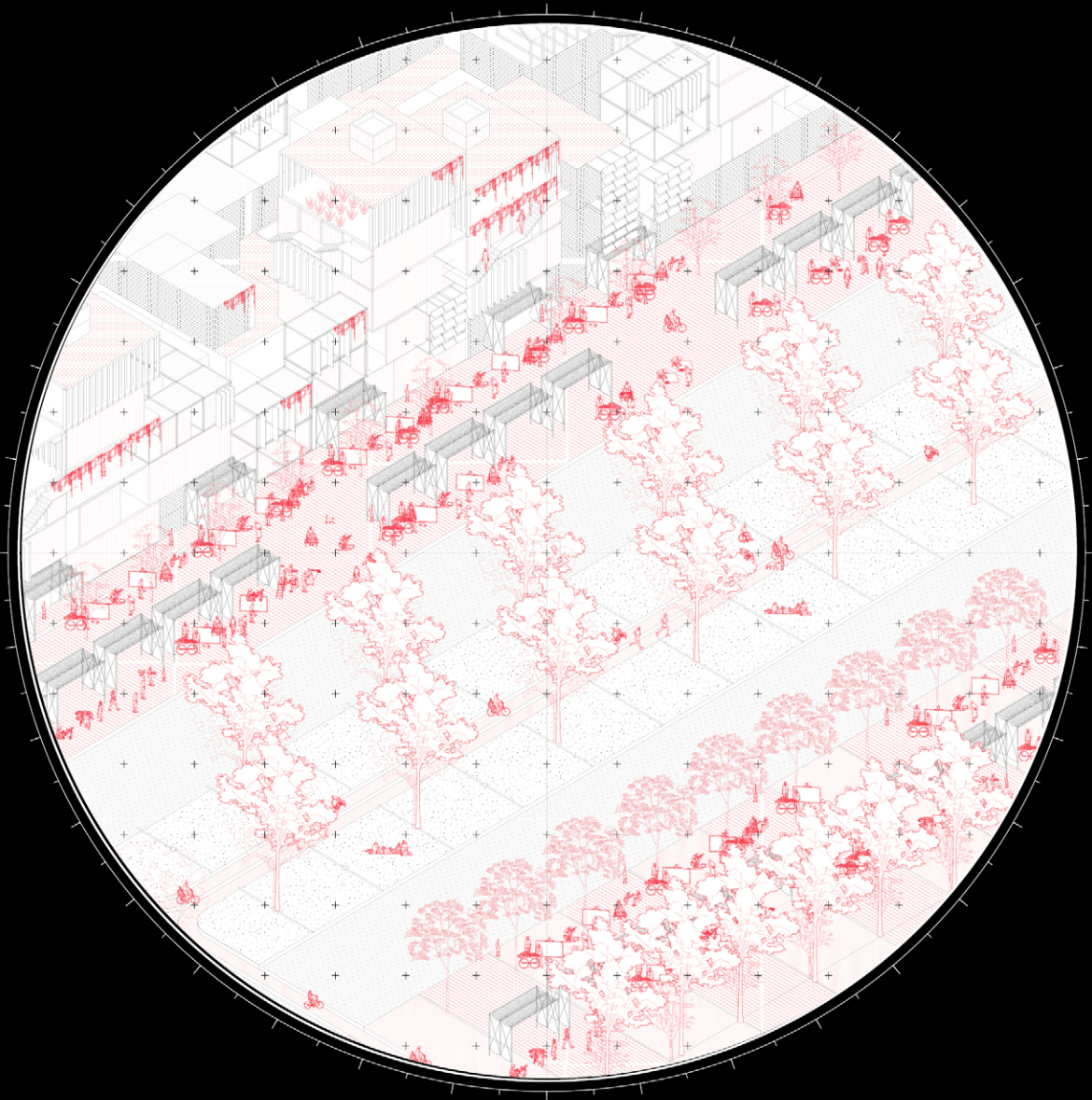
High Integration Scenario



# Levels of Transformation Reached



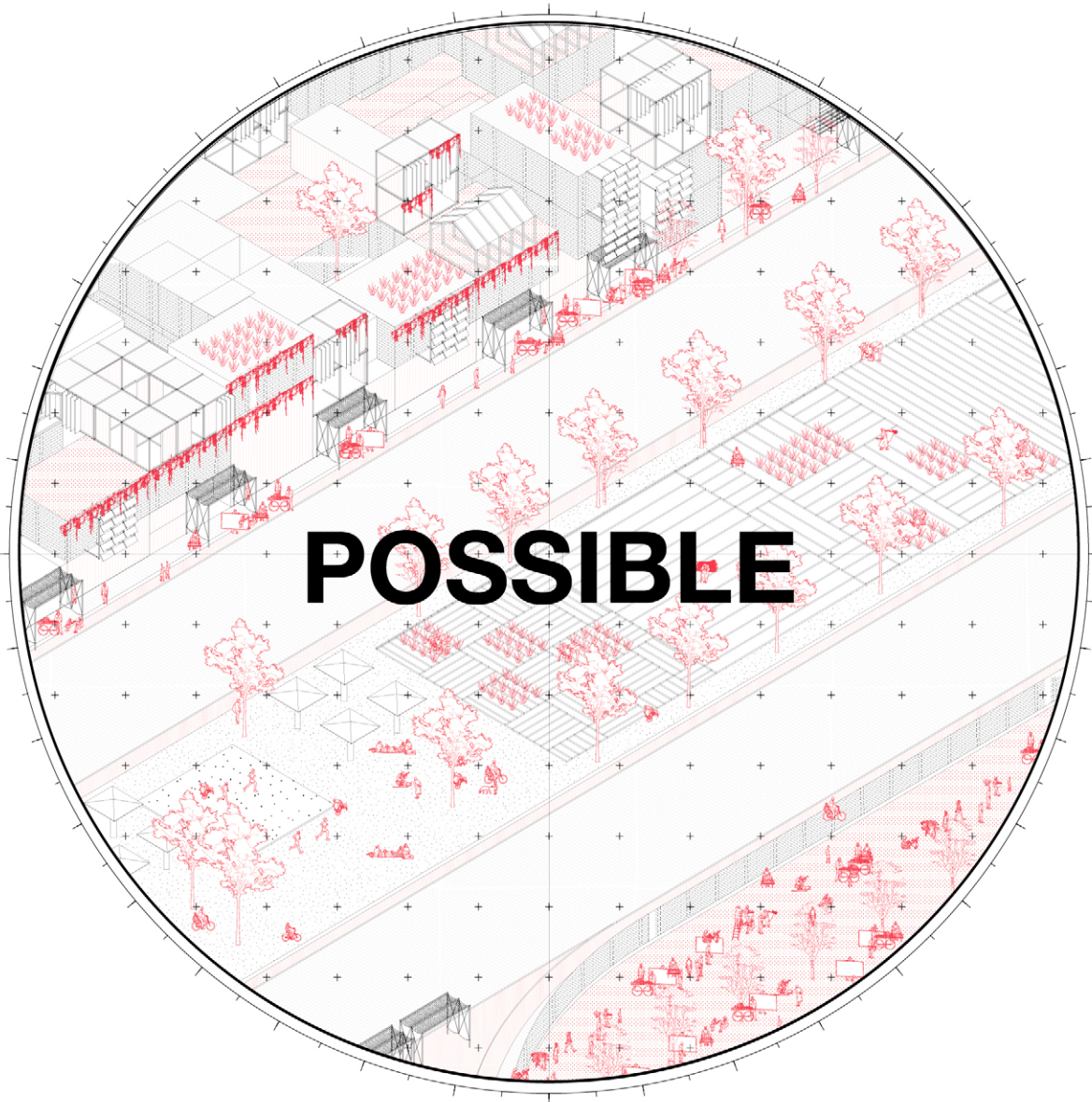
Low Integration Scenario



High Integration Scenario



Levels of Transformation Reached



Low Integration Scenario



High Integration Scenario

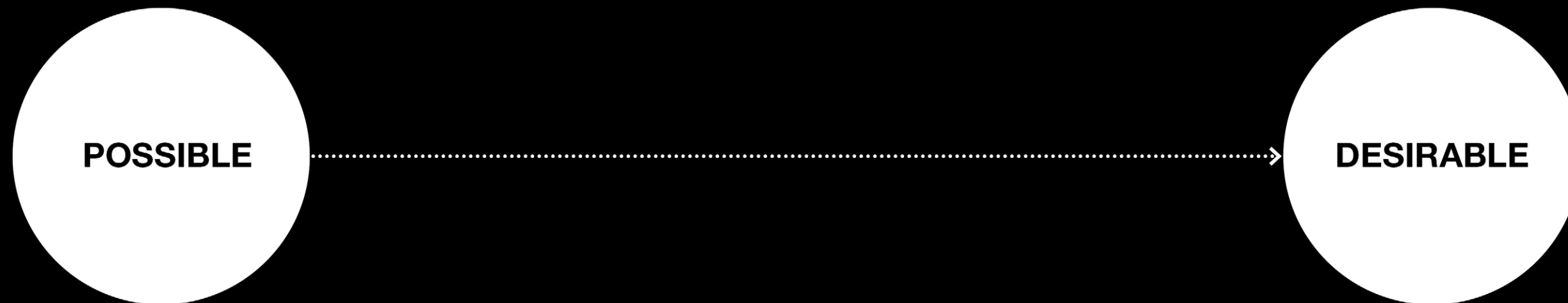


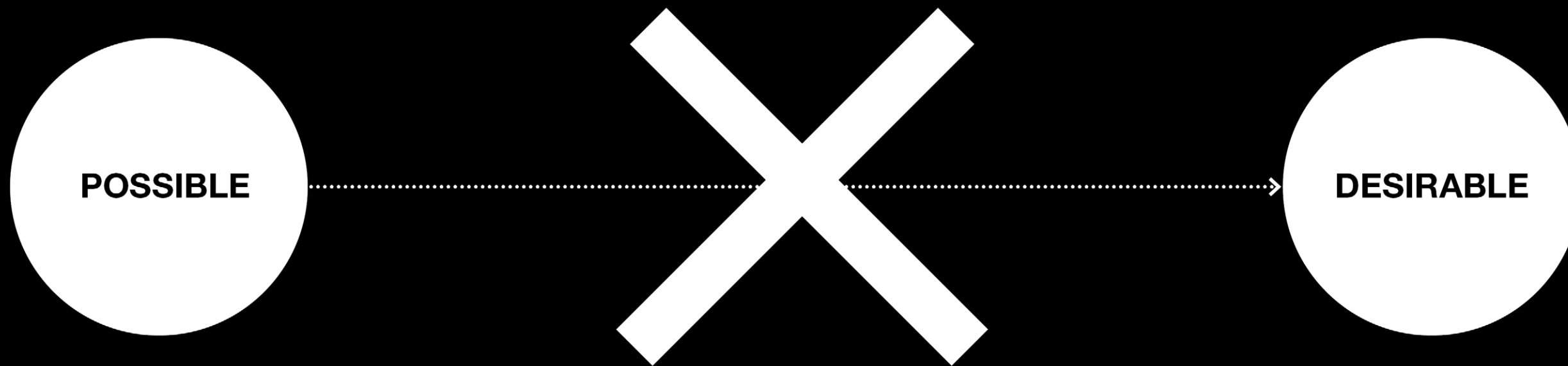




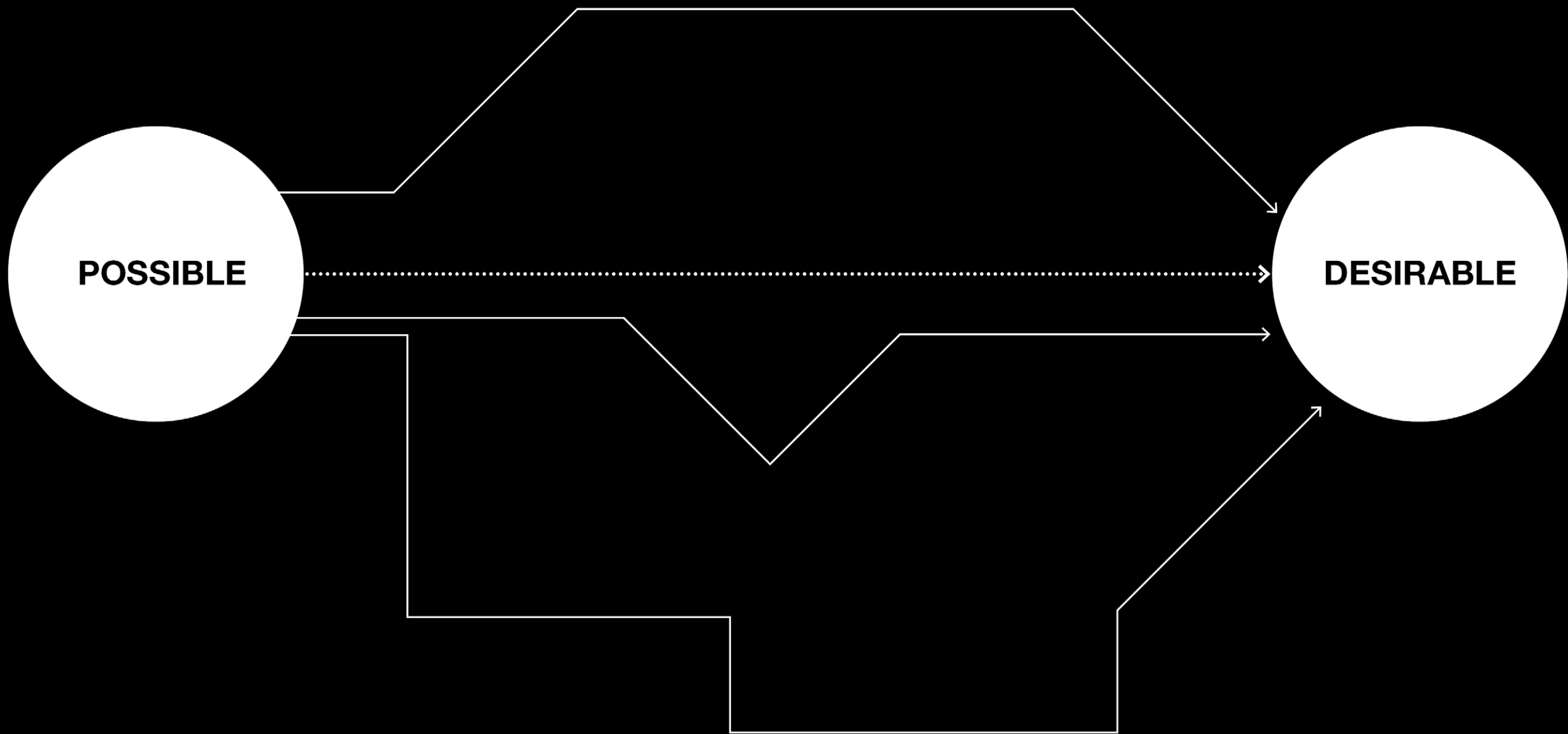
**What If?**

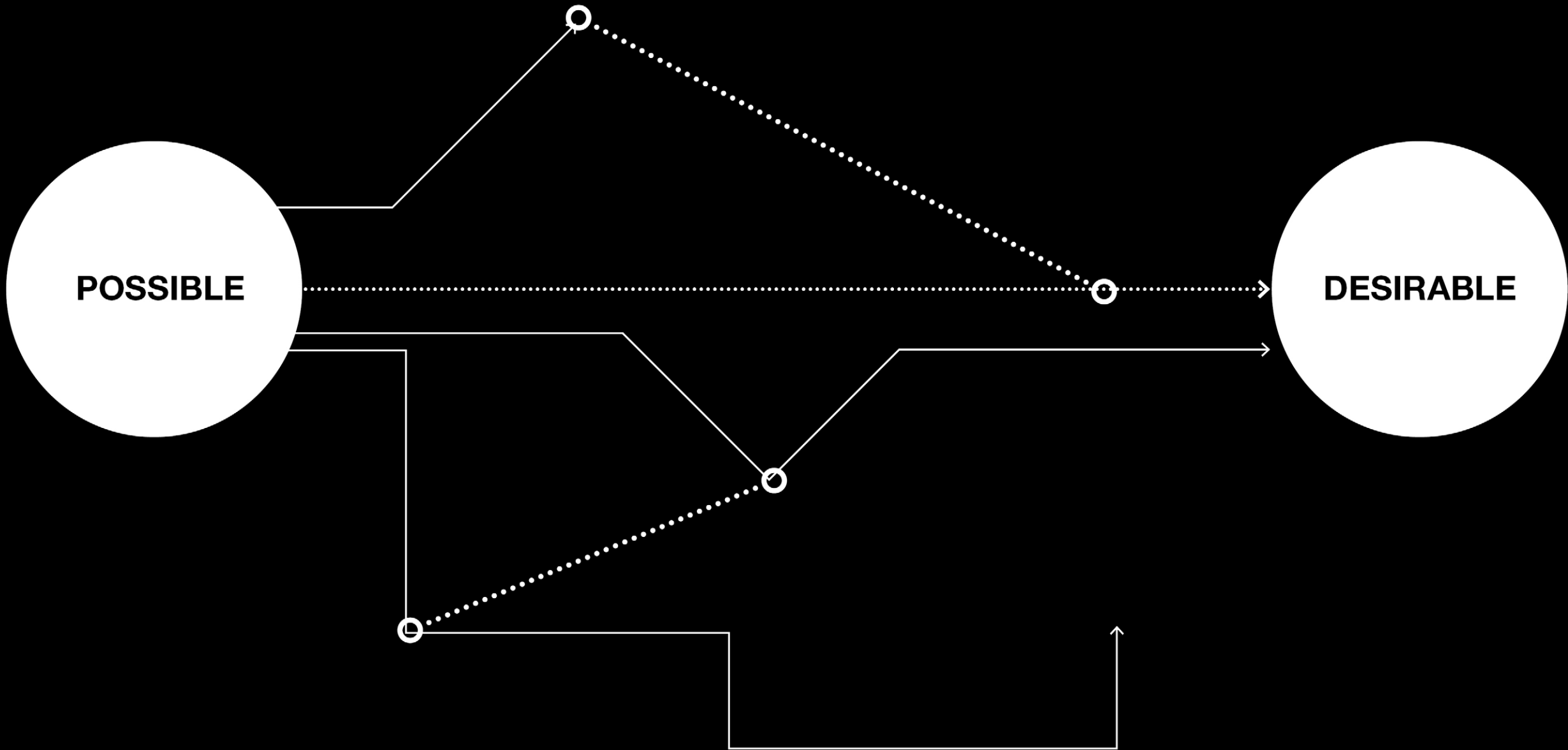














## Micro Action and Local Capacities



One Spatial Action to Start



## Design Local Level

Adaptive Pathways







Adaptive Pathways



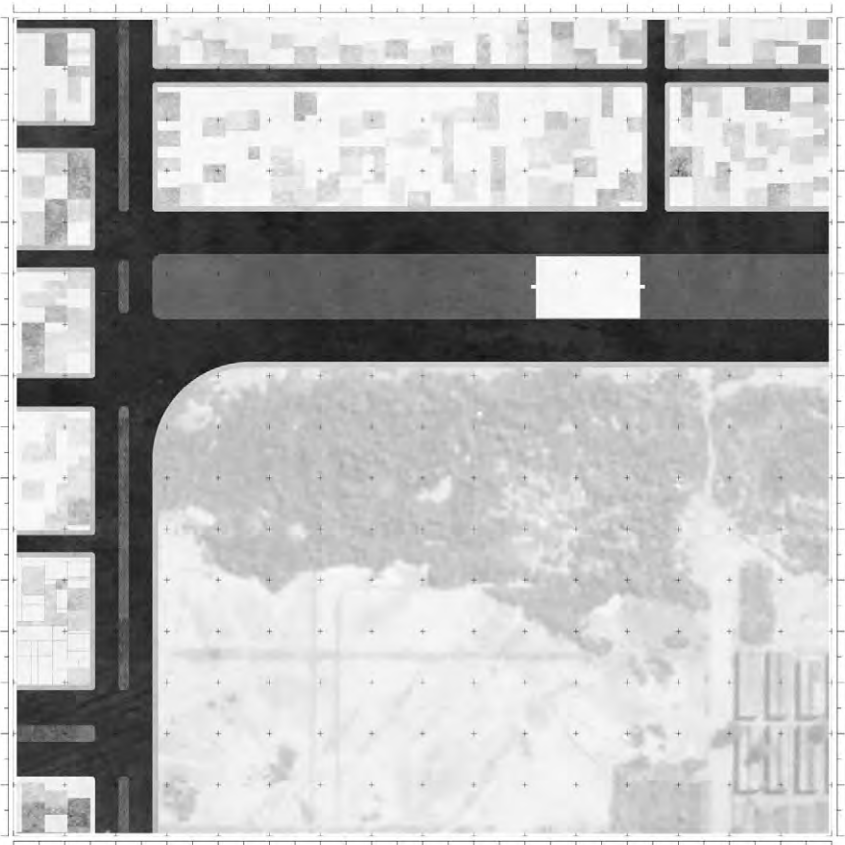


Design Local Level

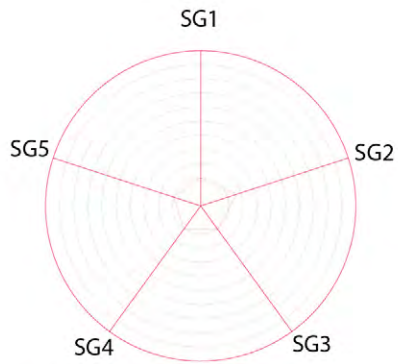
Adaptive Pathways



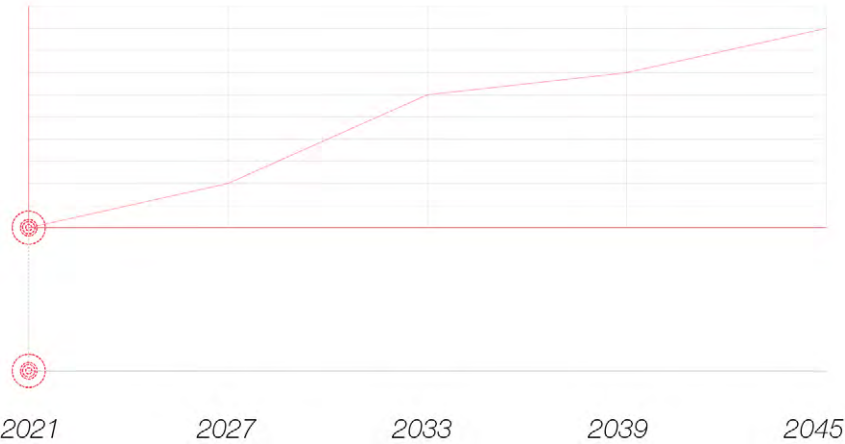
Current



Transformation



Systemic Goals



SG2 Performance

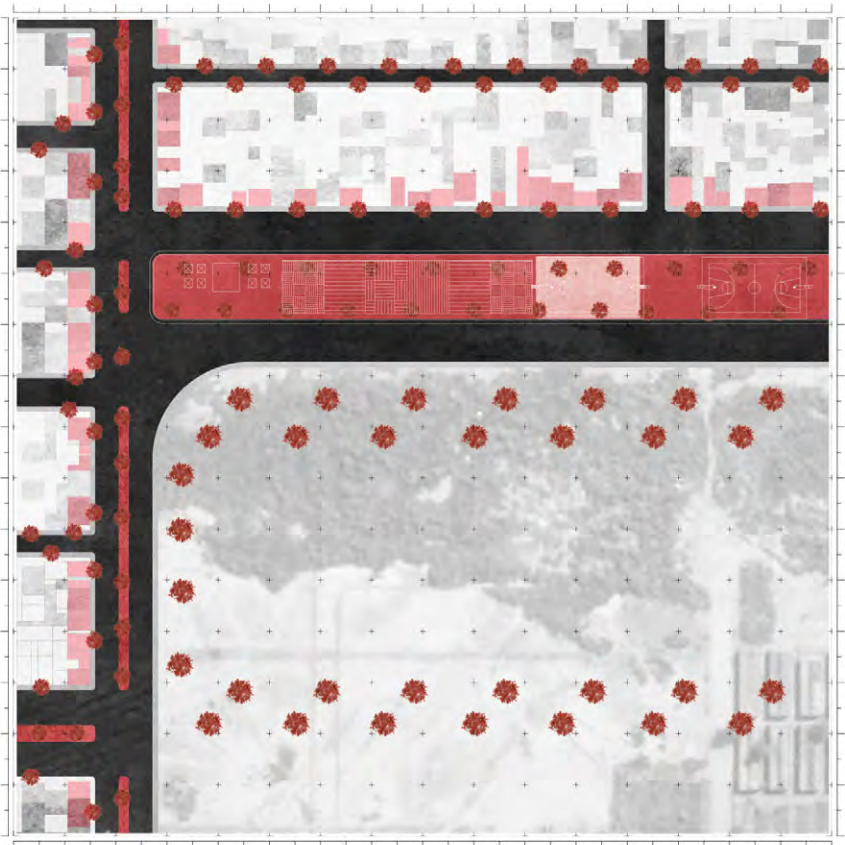


Design Local Level

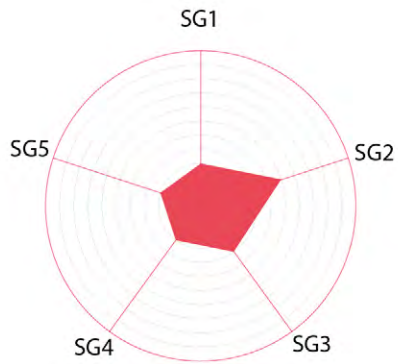
Adaptive Pathways



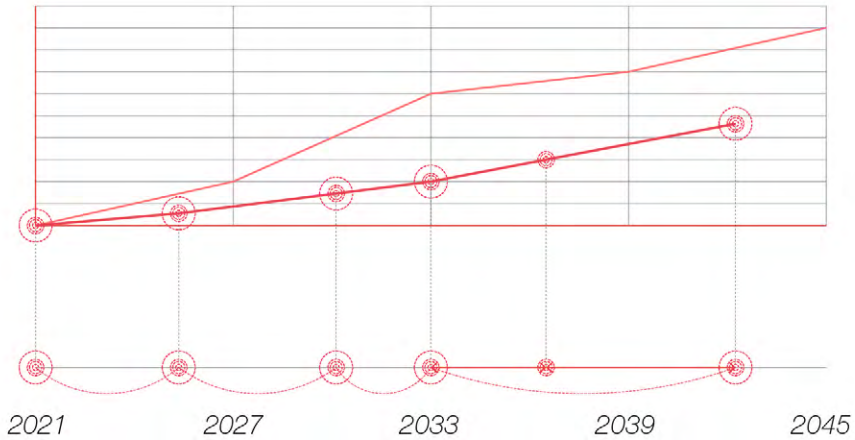
AP - 1



Transformation



Systemic Goals



SG2 Performance

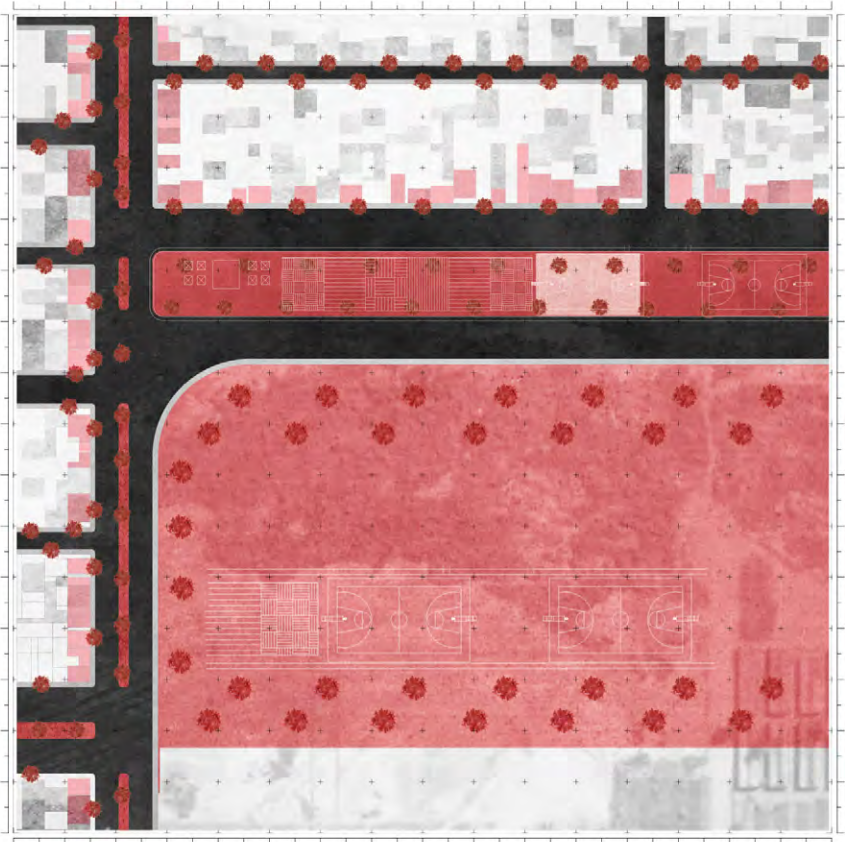


Design Local Level

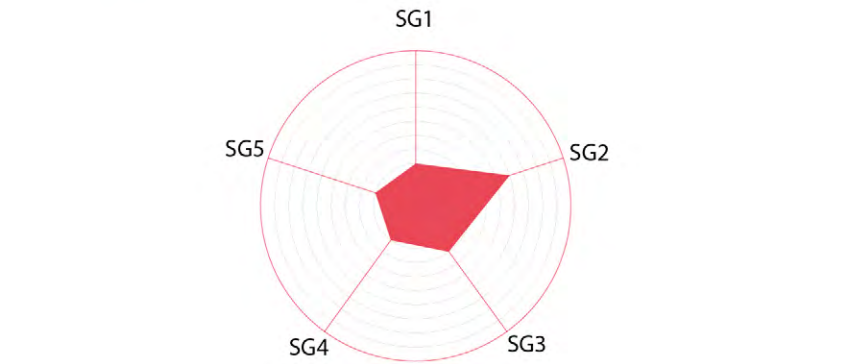
Adaptive Pathways



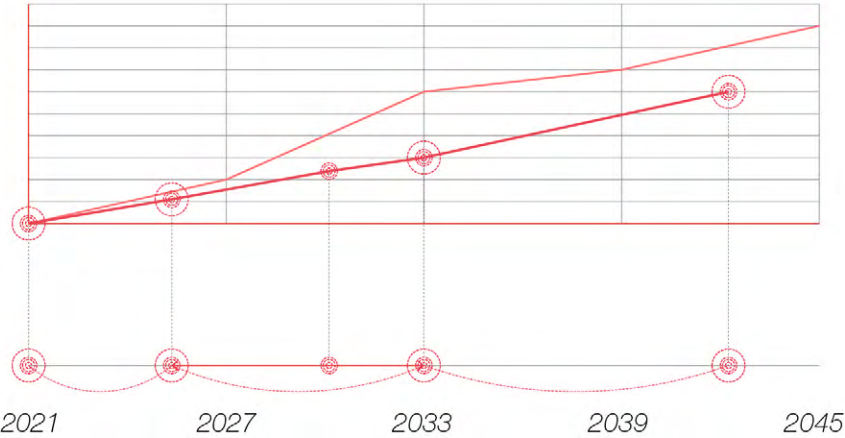
AP - 2



Transformation



Systemic Goals



SG2 Performance



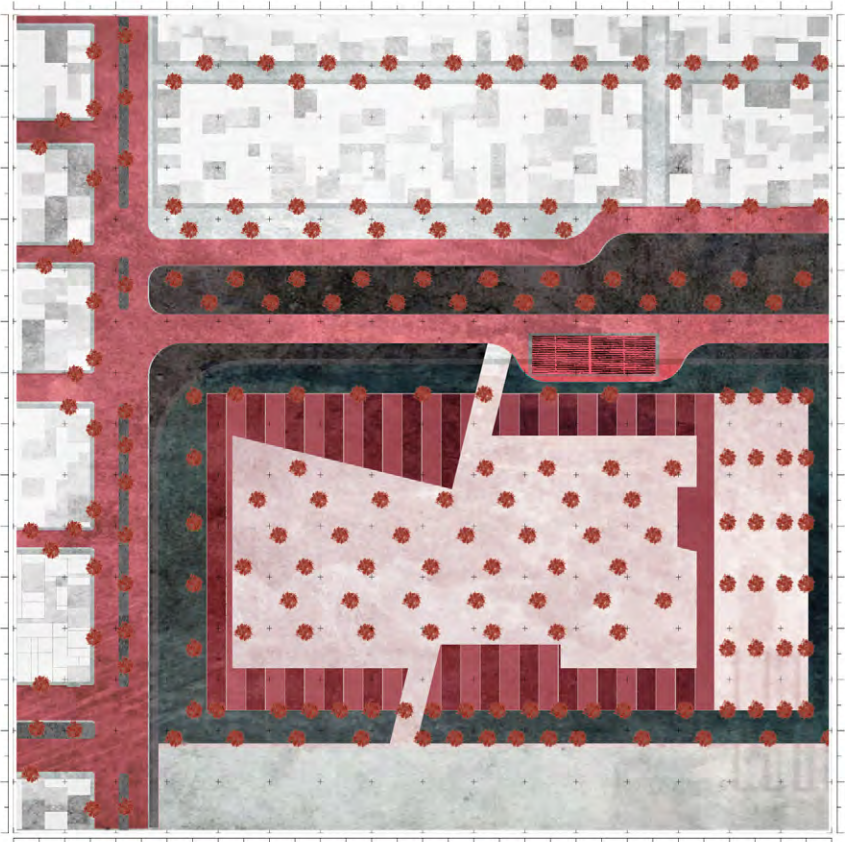


Design Local Level

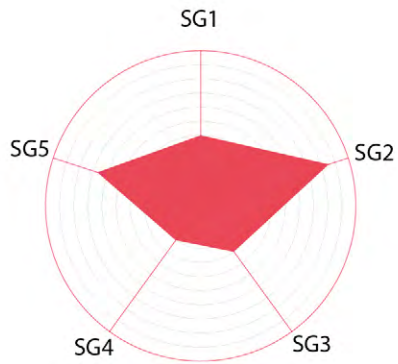
Adaptive Pathways



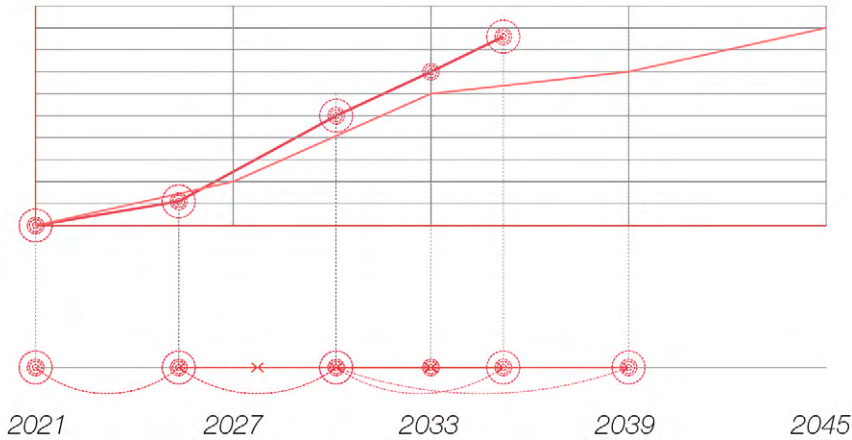
AP - 3



Transformation



Systemic Goals



SG2 Performance

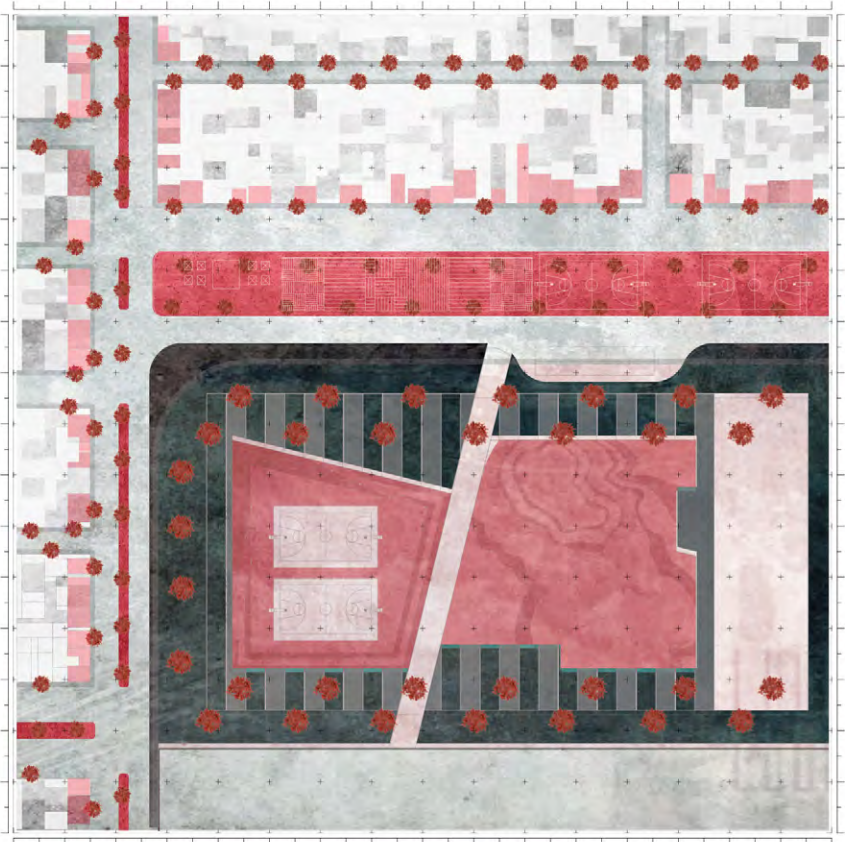


Design Local Level

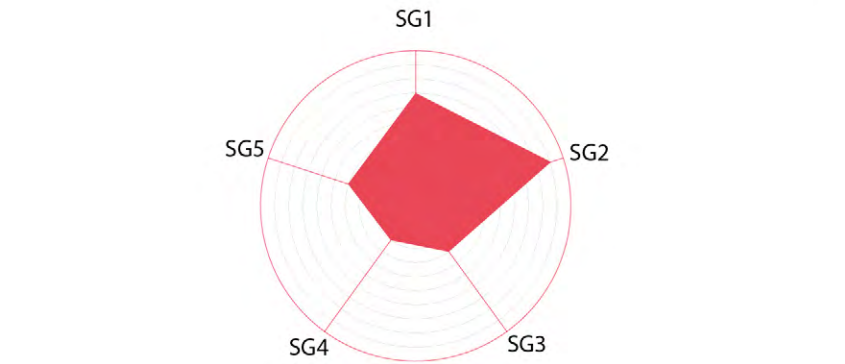
Adaptive Pathways



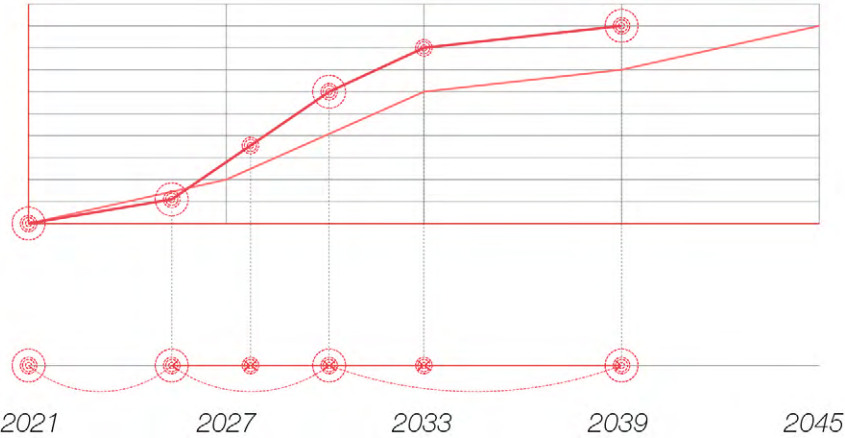
AP - 4



Transformation



Systemic Goals



SG2 Performance







# Conclusions



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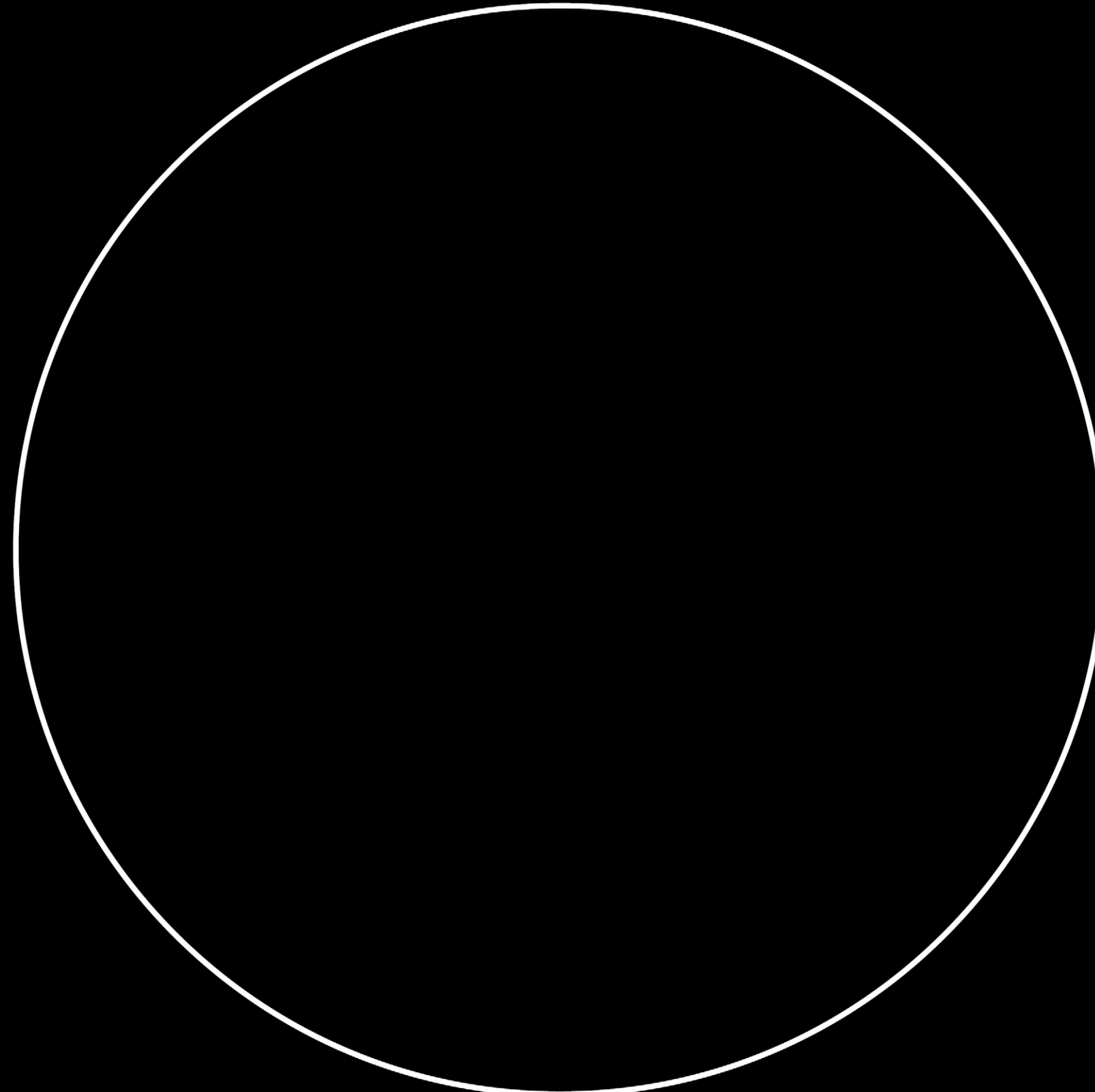
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- **Spatial cohesion = interests + actors + strategic planning + endogenous capacities + local development**





RAMM







