

ASYMM ETRIES OF POWER

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

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P5
02.07.2020



Problem Field

Adaptive Strategic
Framework

Strategies and Actions

Design Local Level



Problem Field

Context



Metropolitan Areas

Problem Field

Location

**MAVM & Netherlands**

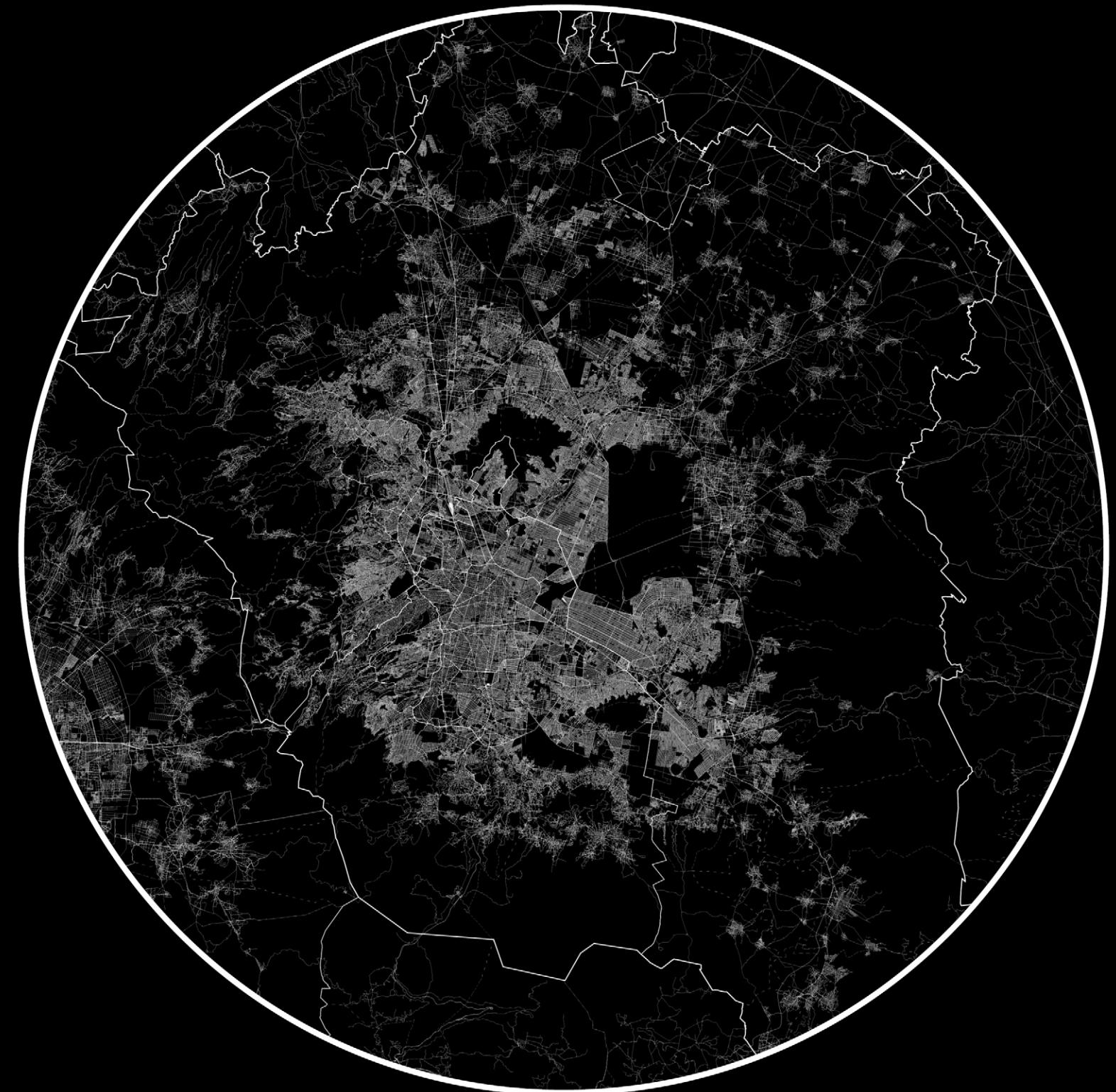
Problem Field

Location

**MAVM & Netherlands**

Problem Field

The Emergent Metropolisation Process in Mexico



More than 21 million Inhabitants

0 km | 30 km |

Problem Field

Globalization and Neoliberalism in Latin America



Emergent Metropolis Process

Santa Fe Buisness 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

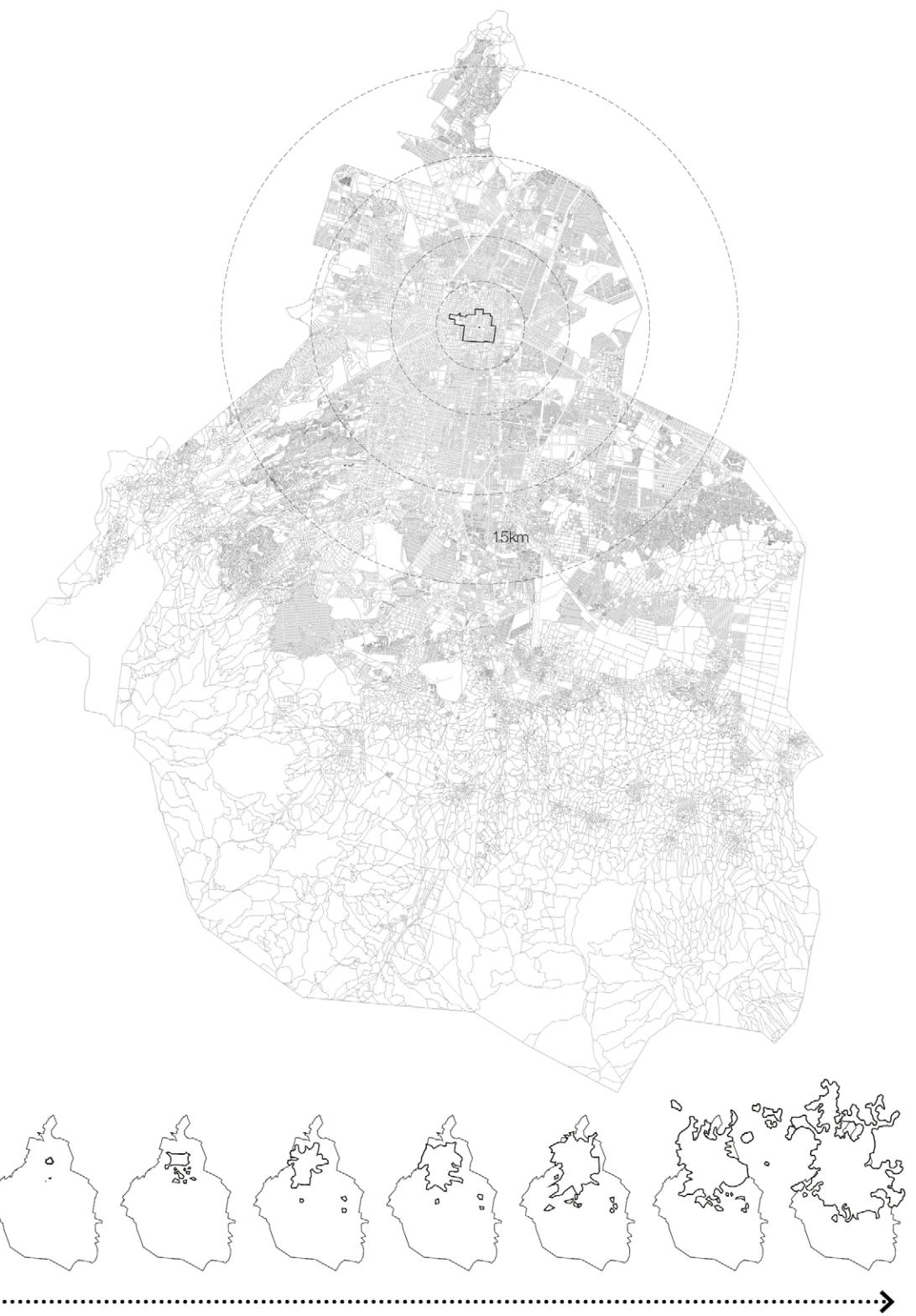


Social Segregation and Spatial Fragmentation

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

Problem Field

Urban Growth of Mexico City



0 km | 6 km |

Limited planning scope



Housing estates for low income

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





Informal settlements

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



Expand planning scope
Adaptive planning framework
Local perspective
Spatial cohesion

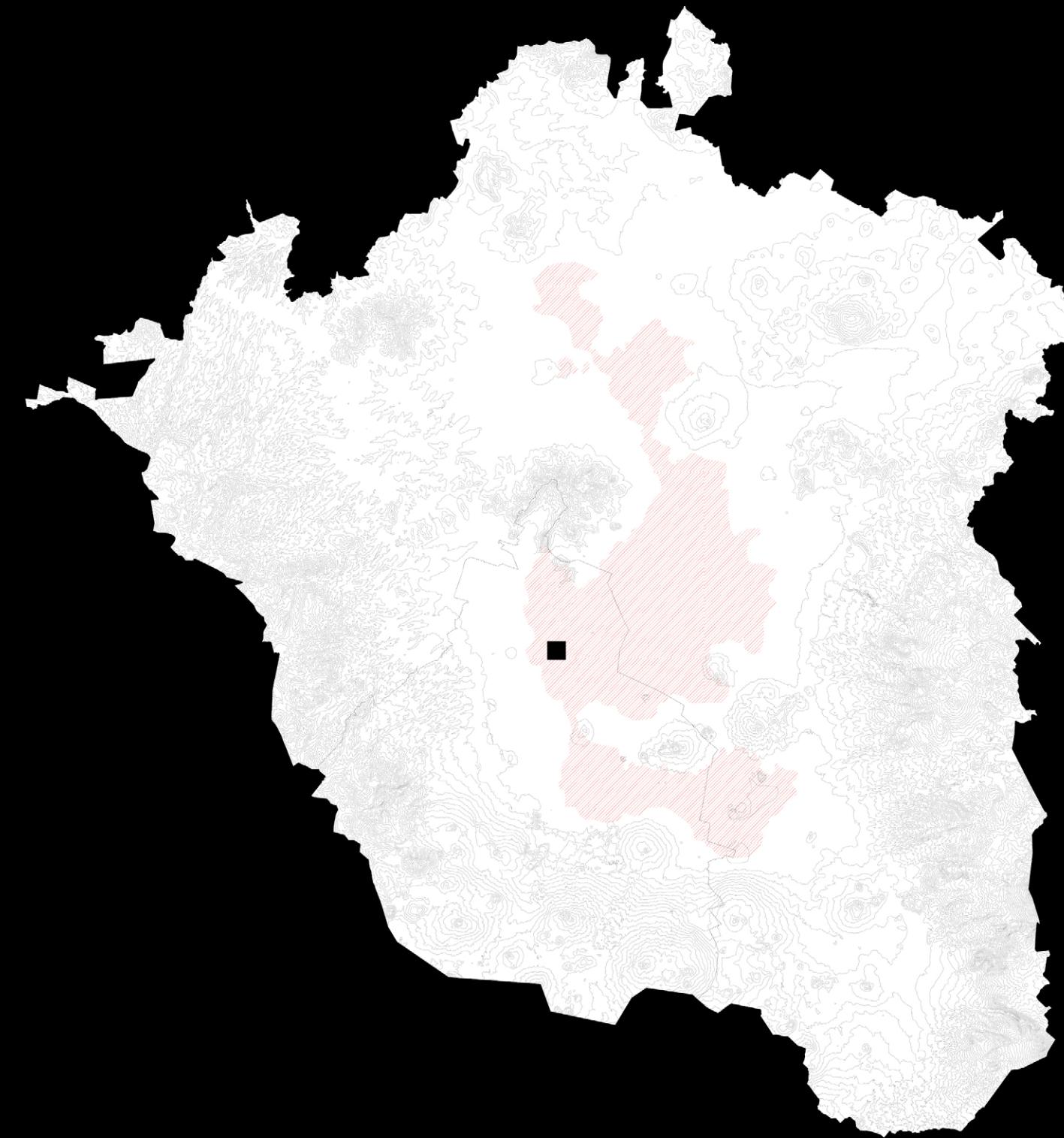
**How and until what extend can adaptive
spatial planning facilitate endogenous
urban development capable of
reducing social segregation and spatial
fragmentation towards a cohesive-just
MAVM?**

Adaptive Strategic Framework

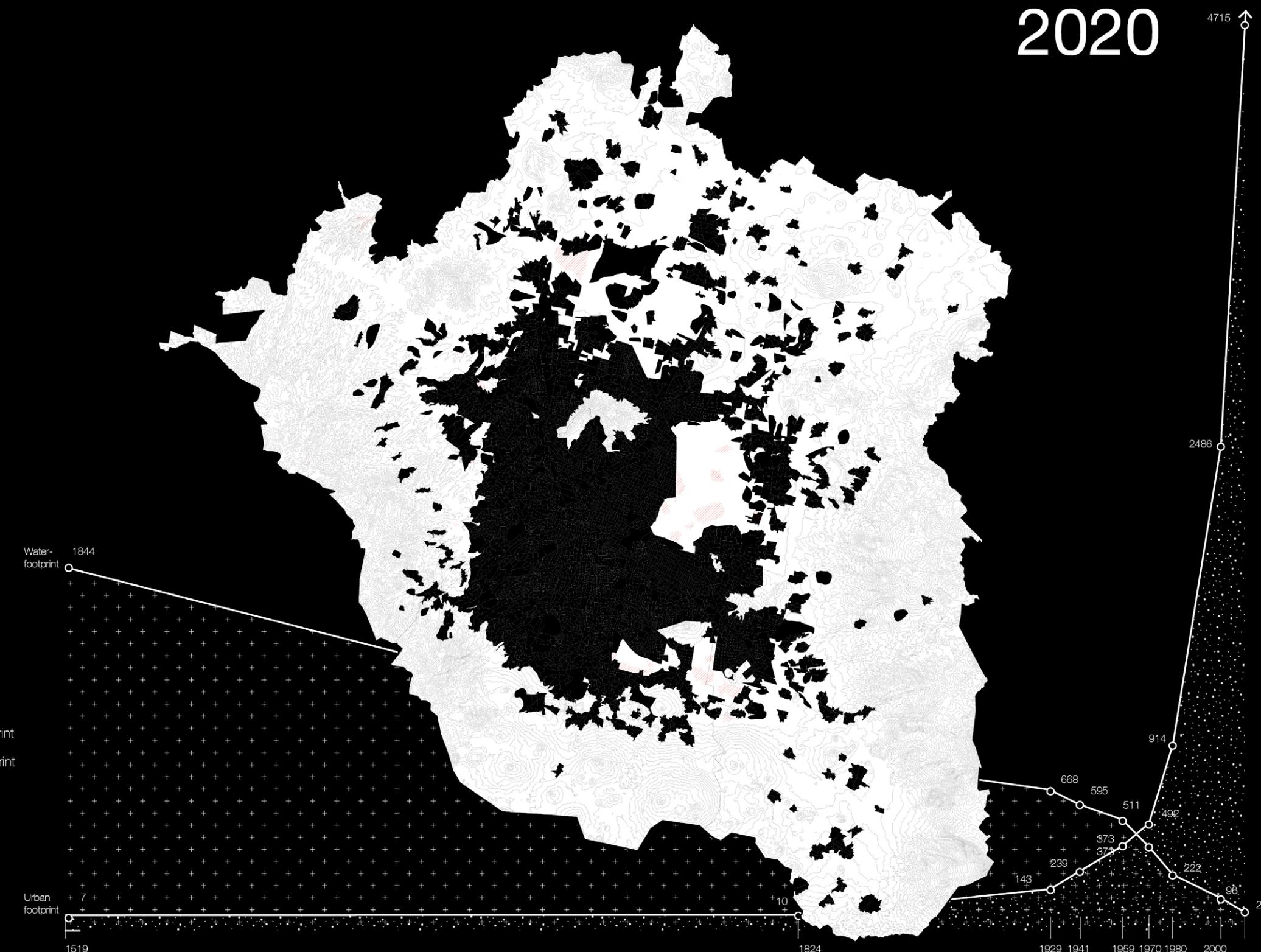


0 km | 20 km |

1529

**Urban Footprint vs Water Bodies**

0 km | 20 km | Ⓞ



Urban Footprint vs Water Bodies

0 km | 20 km |

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

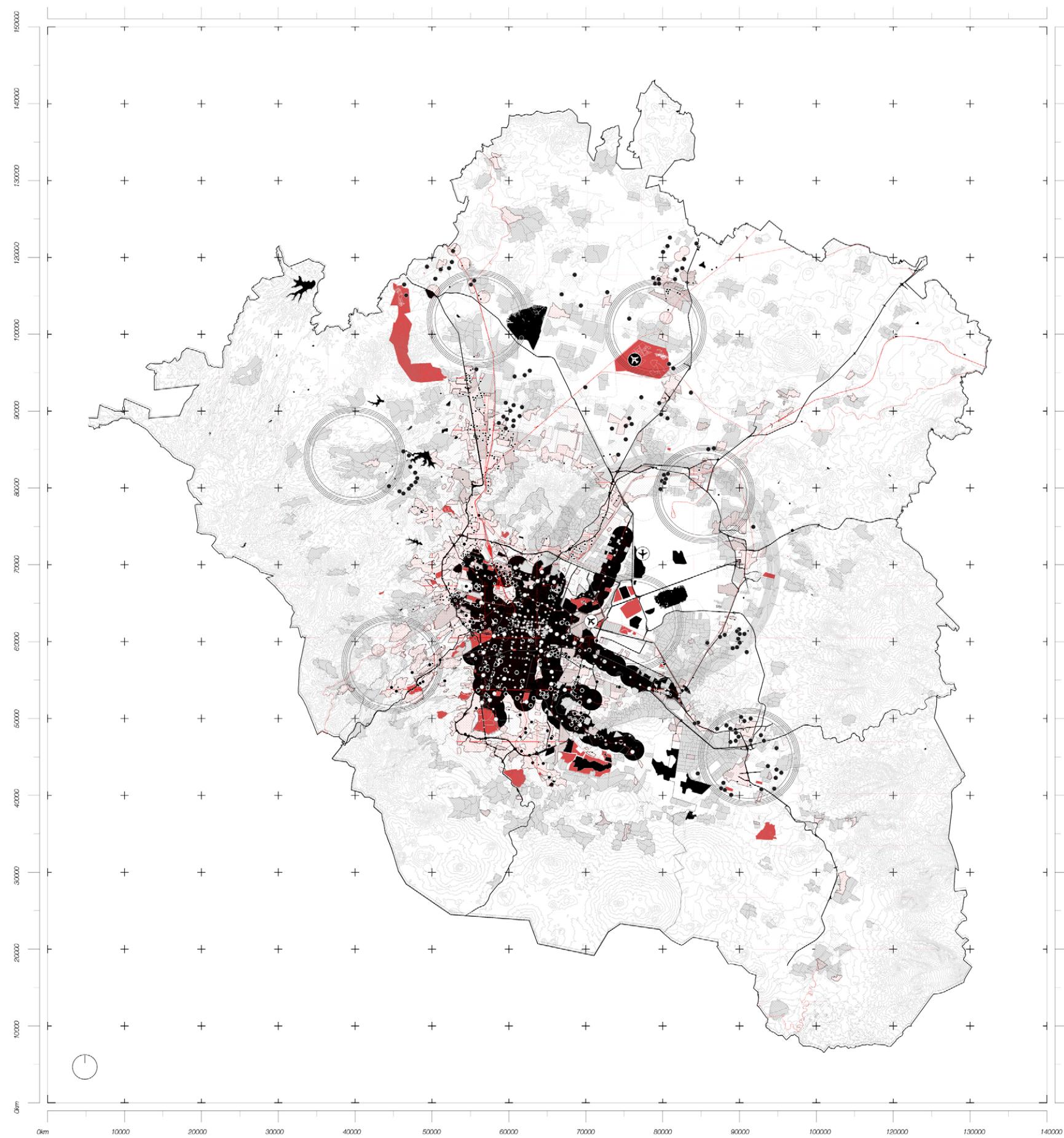


Unjust Large Urban Projects

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

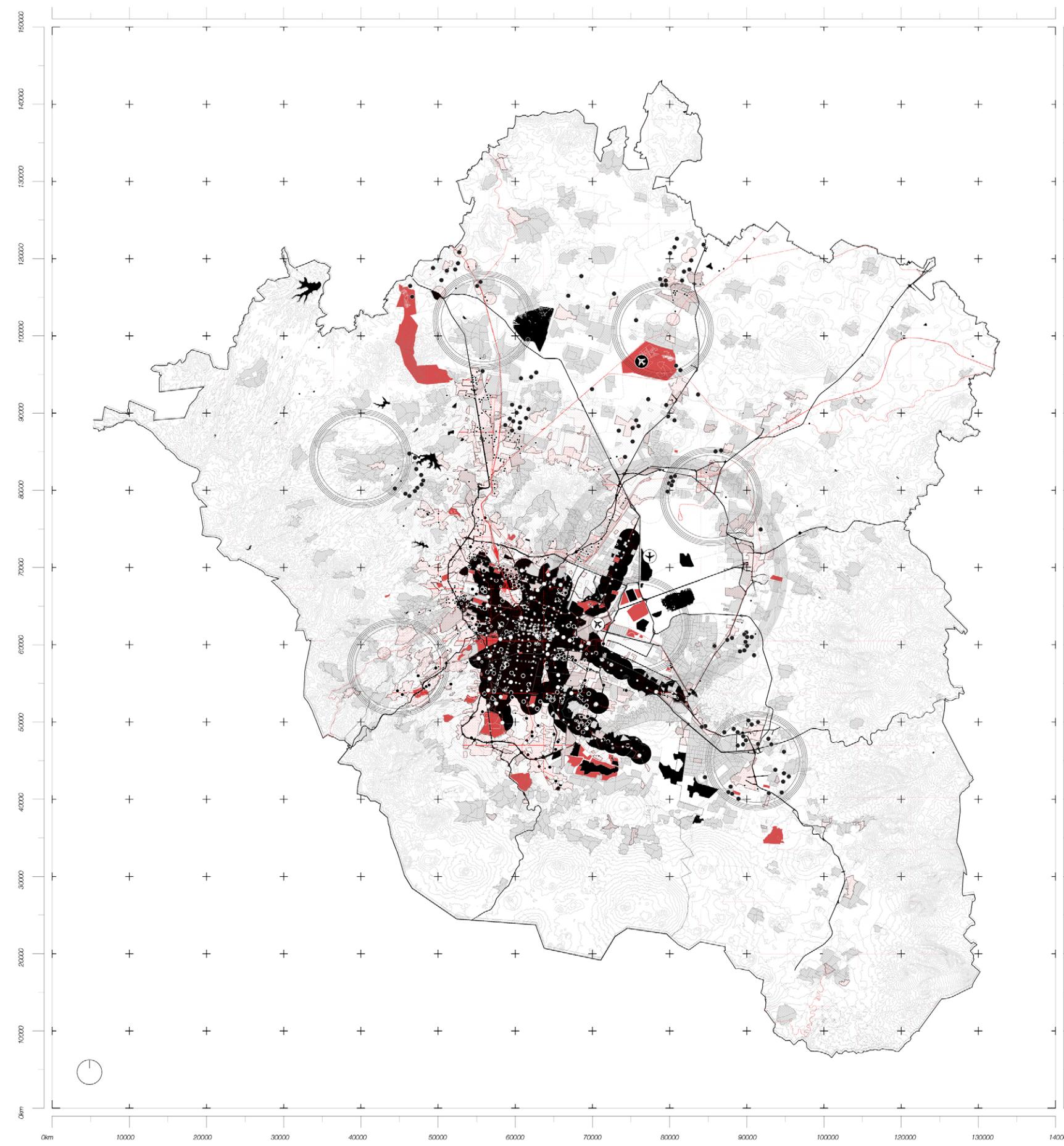
Adaptive Strategic Framework

Metropolitan Assessment



Adaptive Strategic Framework

Metropolitan Assessment

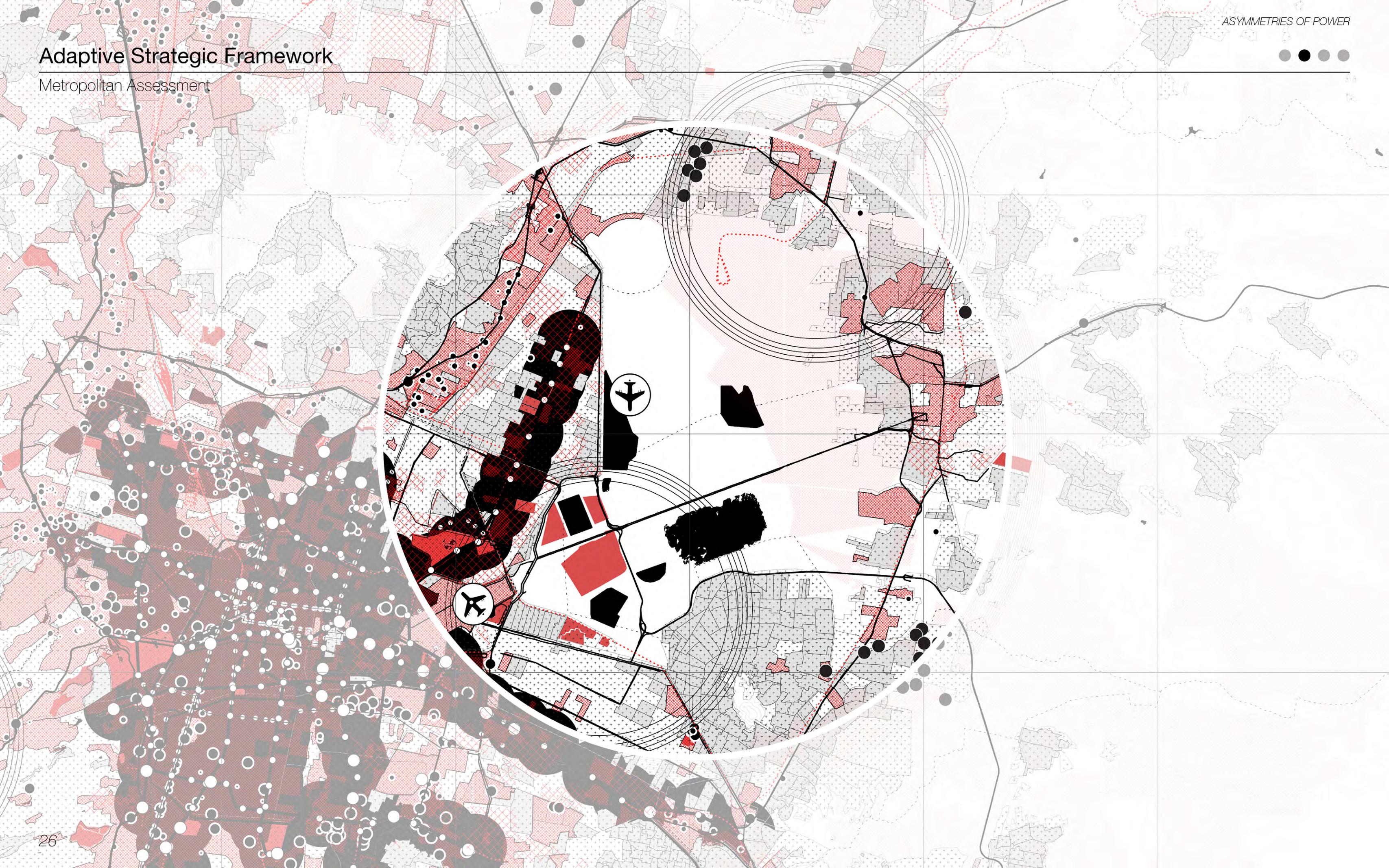


-up and -down AICM (Google images, 2019) The image shows the advance condition in which the airport was cancelled.
-up and -down Texcoco ecological park project (Iñaki Echeverría, 2018) The image shows the vision for the future metropolitan park.

0 km 20 km

Adaptive Strategic Framework

Metropolitan Assessment



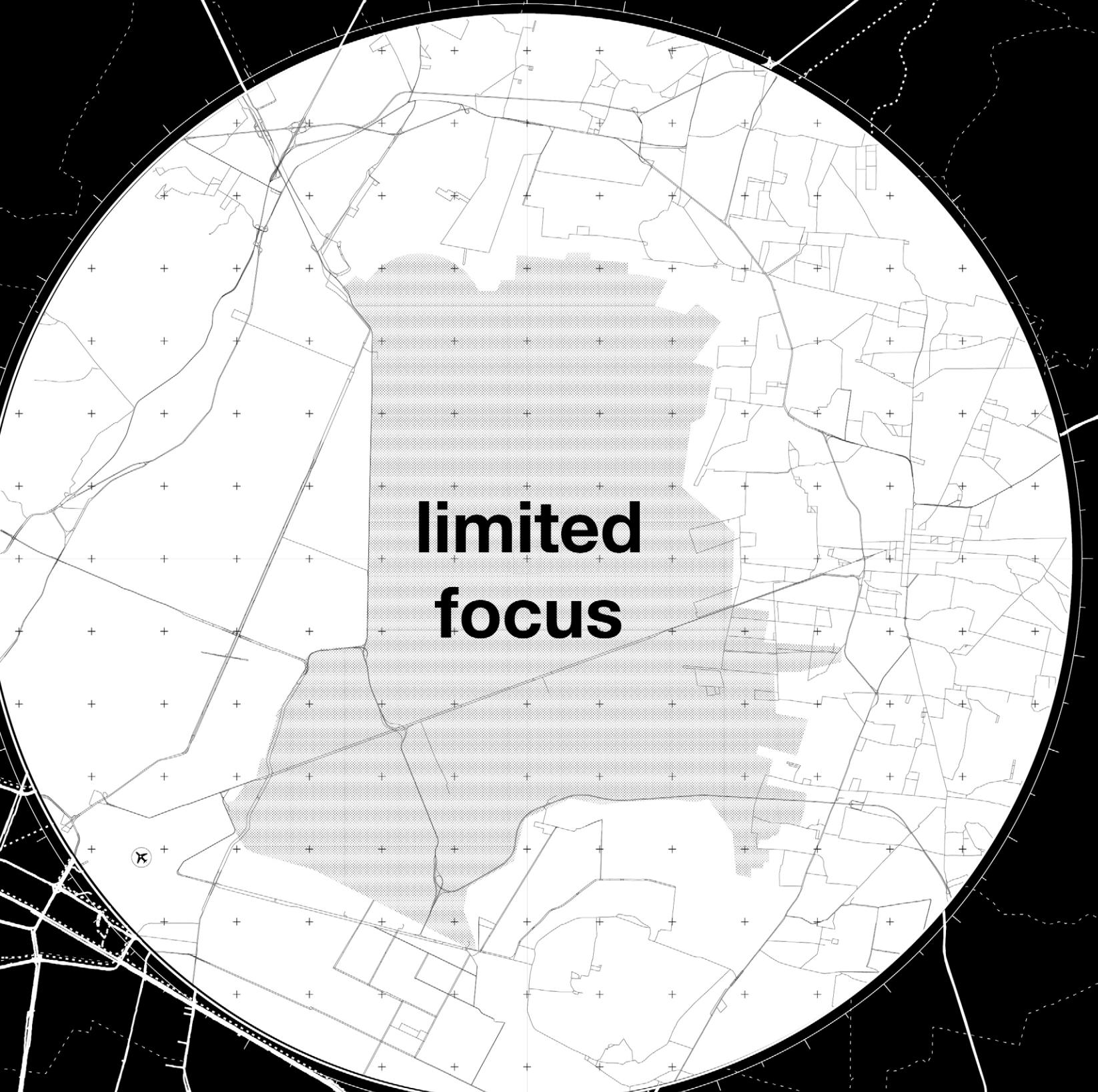
Adaptive Strategic Framework

Metropolitan Assessment



Adaptive Strategic Framework

Strategic Urban Agglomerations



0 km 2 6 12

Adaptive Strategic Framework

Strategic Urban Agglomerations

**expanded
focus**

0 km

2

6

12

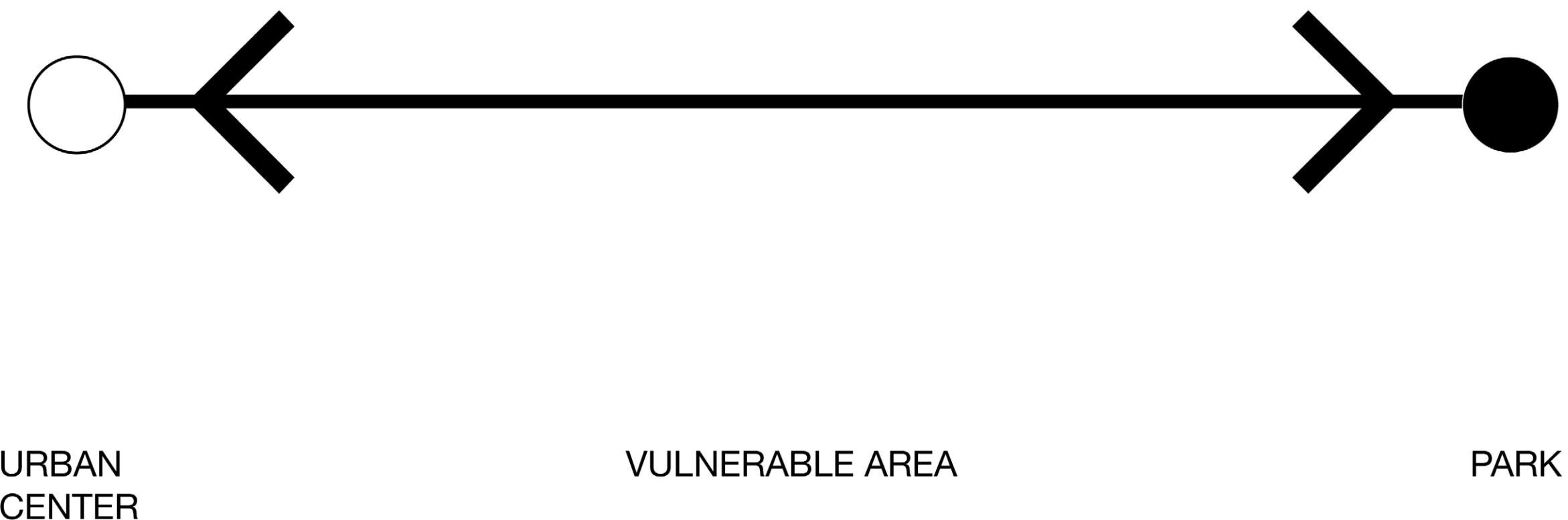
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Adaptive Strategic Framework

Strategic Urban Agglomerations



Connectedness

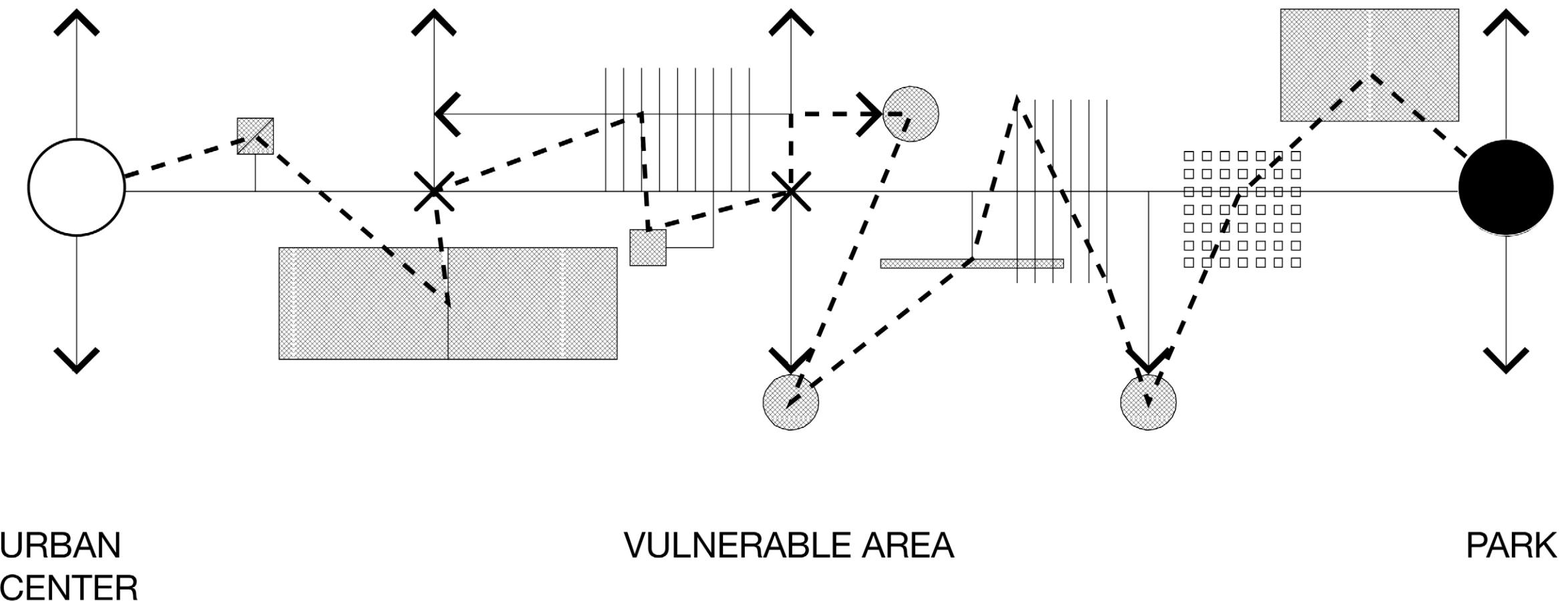


Adaptive Strategic Framework

Strategic Urban Agglomerations



Local Activation

URBAN
CENTER

VULNERABLE AREA

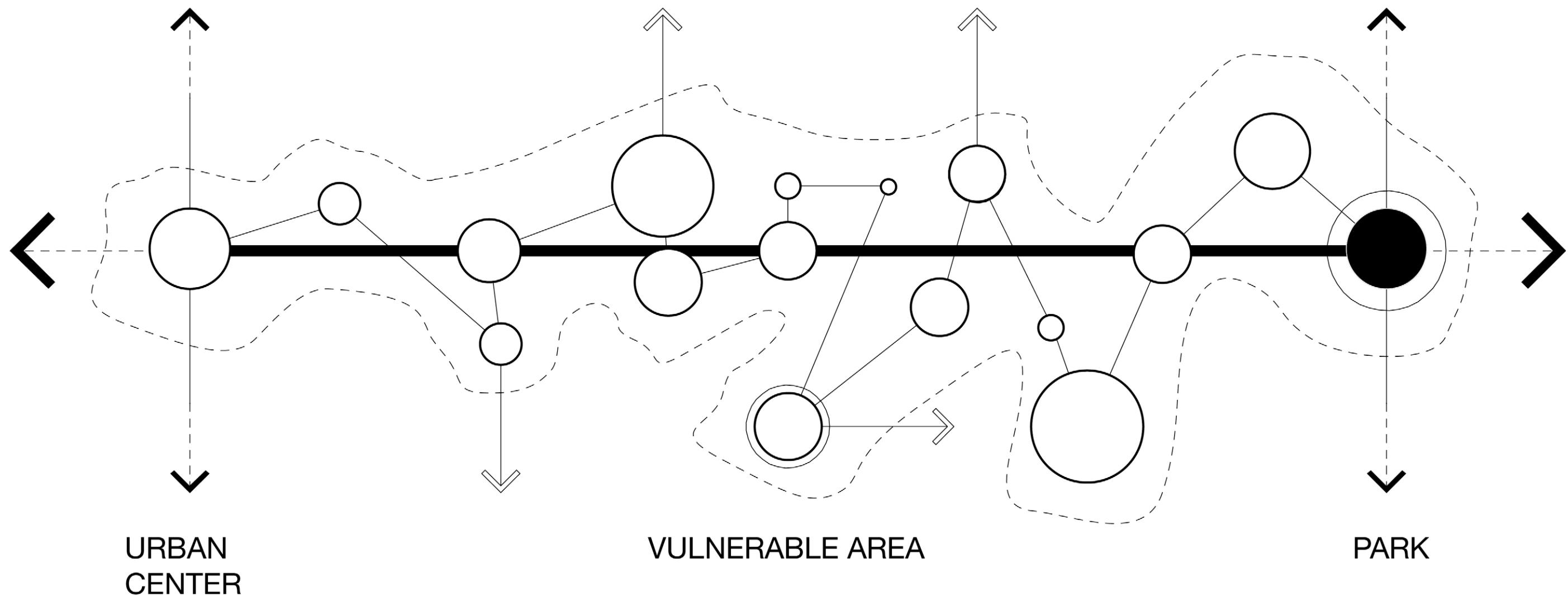
PARK

Adaptive Strategic Framework

Strategic Urban Agglomerations



Intermunicipal Co-operation towards a more endogenous development





Adaptive Strategic Framework

Strategic Urban Agglomerations



Adaptive Strategic Framework

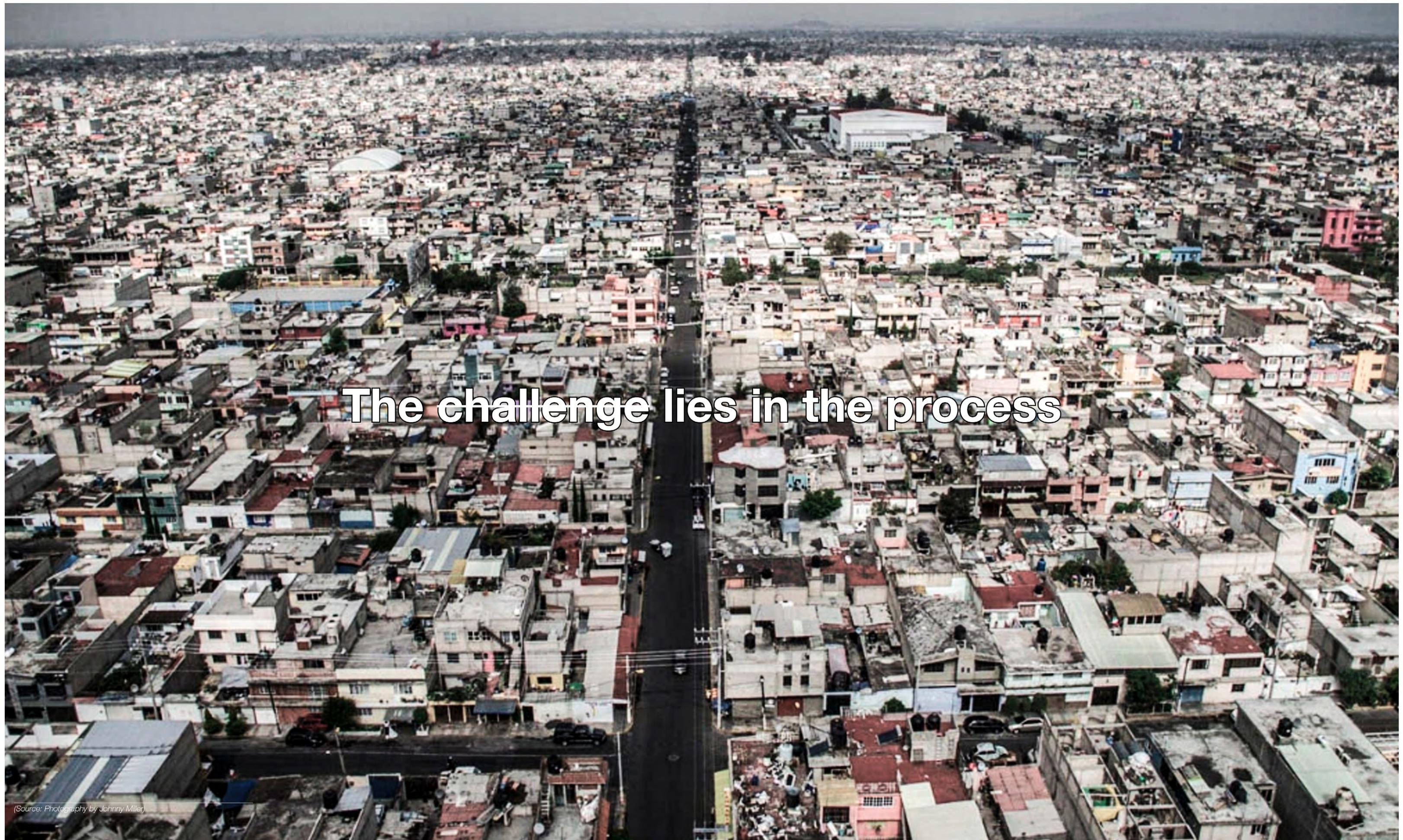
Strategic Urban Agglomerations



Adaptive Strategic Framework

Strategic Urban Agglomerations





The challenge lies in the process

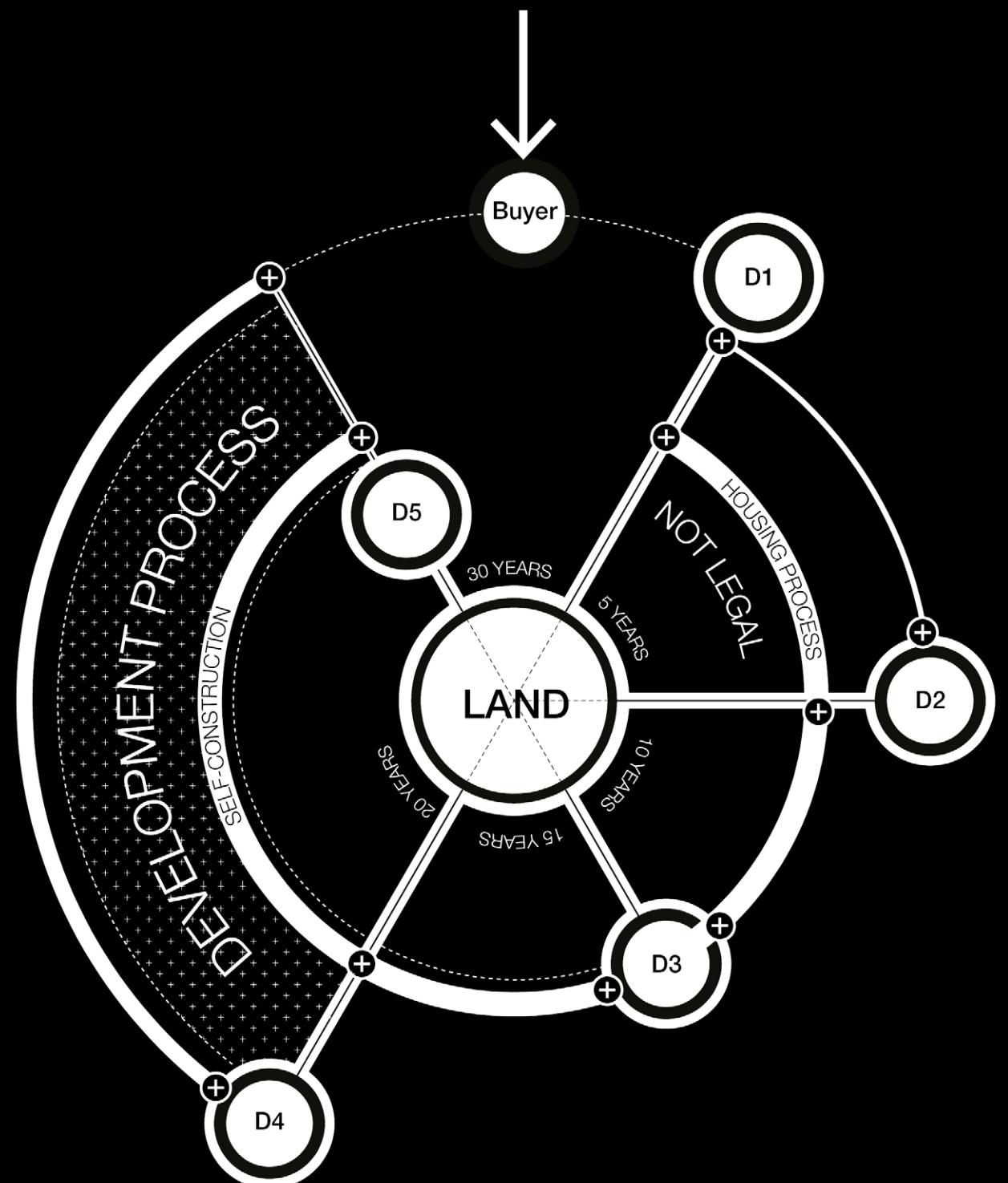
(Source: Photography by Johnny Miller)

Adaptive Strategic Framework

Governance Challenge

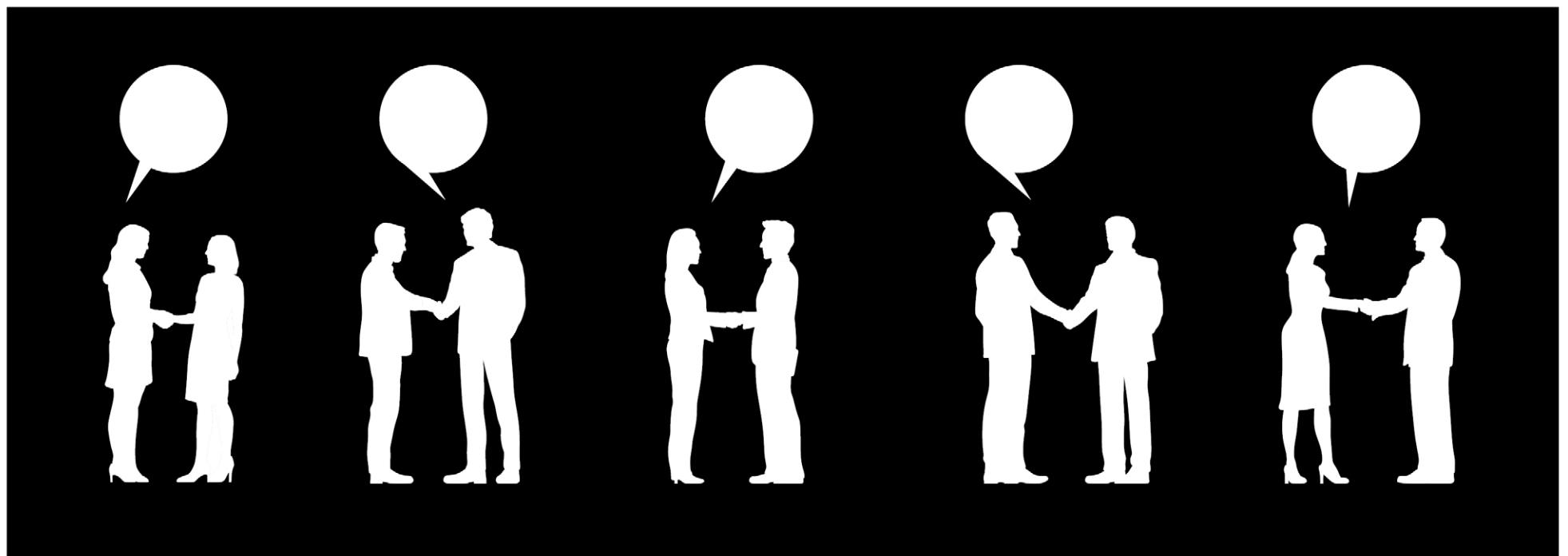


Land Development



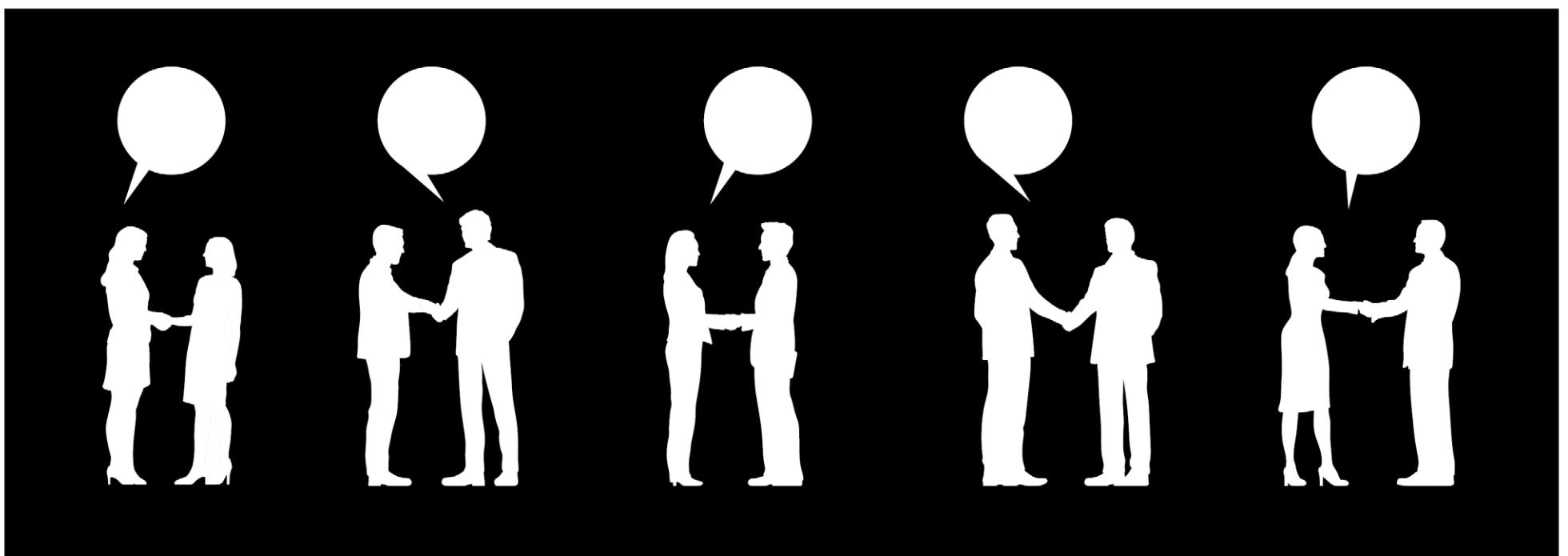
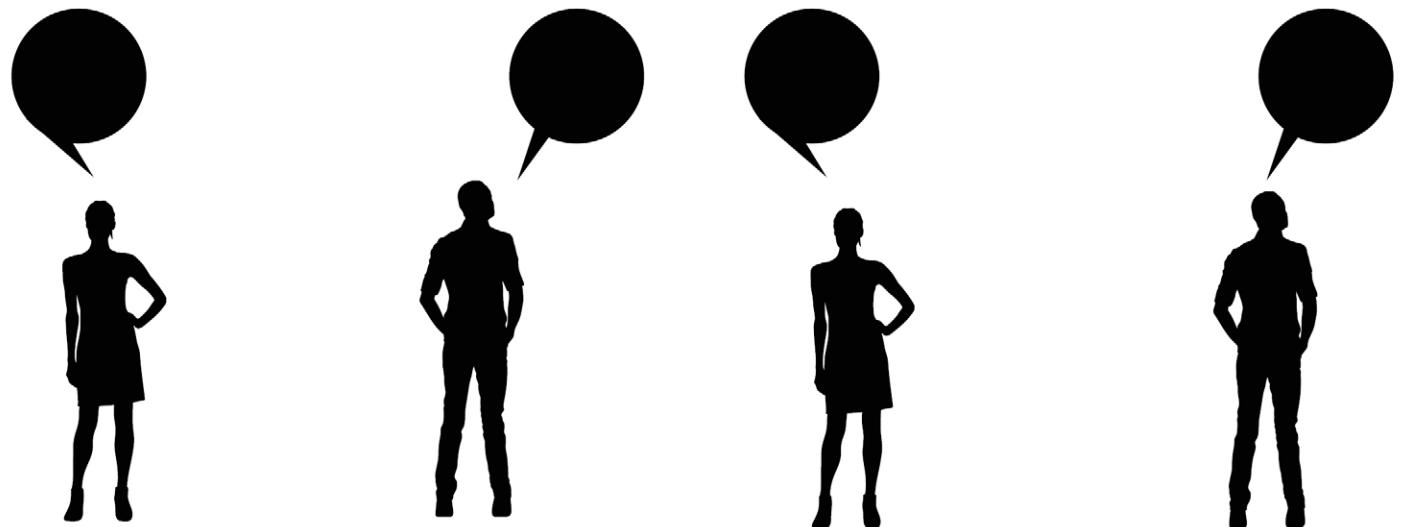
Adaptive Strategic Framework

Governance Challenge



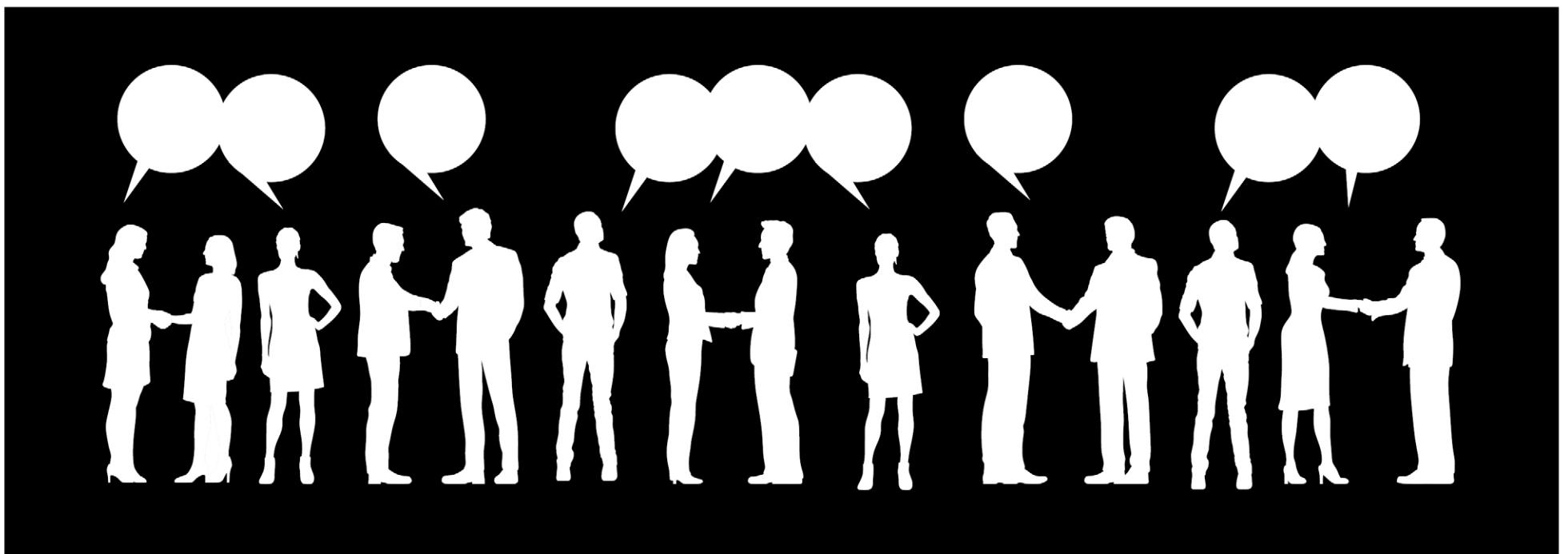
Adaptive Strategic Framework

Governance Challenge



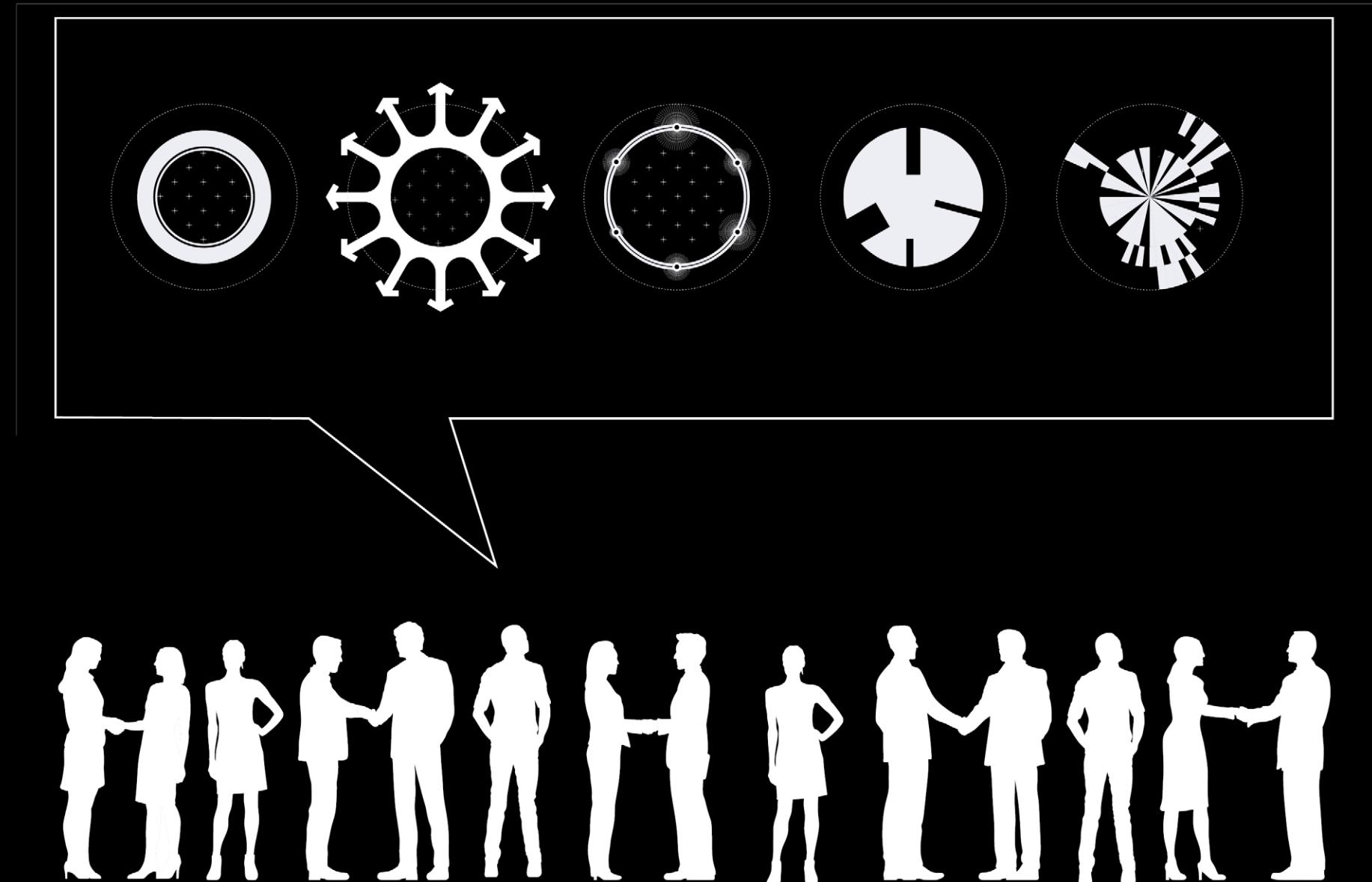
Adaptive Strategic Framework

Governance Challenge



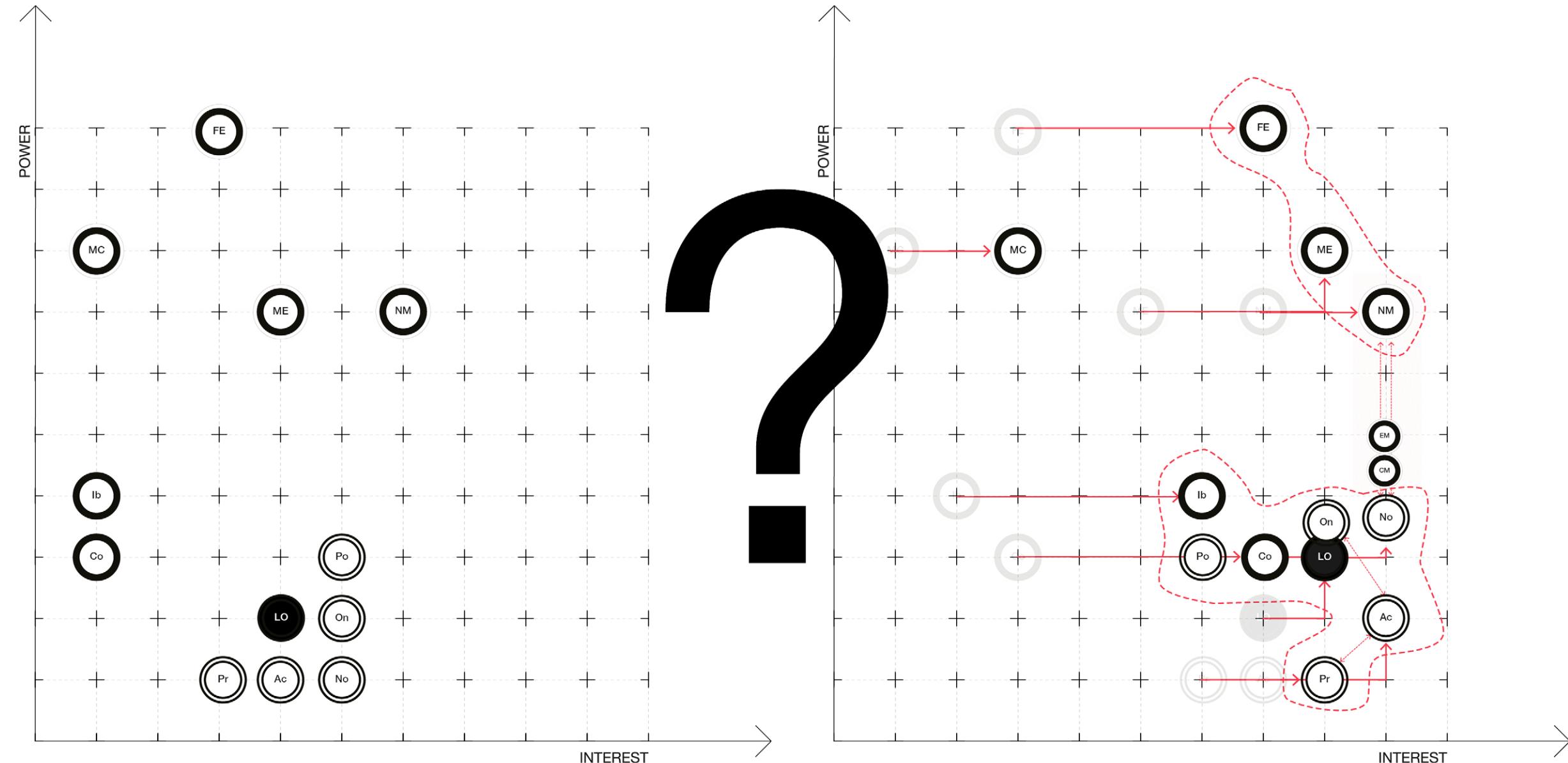
Adaptive Strategic Framework

Governance Challenge

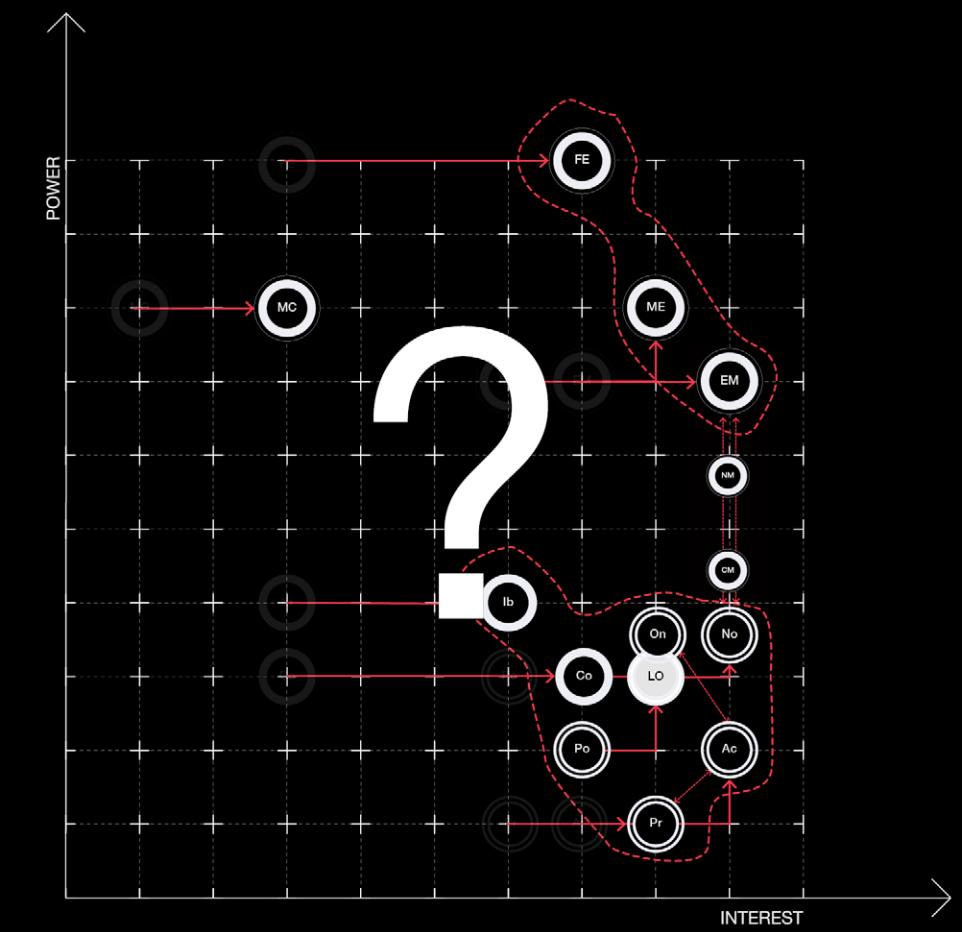


Adaptive Strategic Framework

Governance Challenge



We need Goals

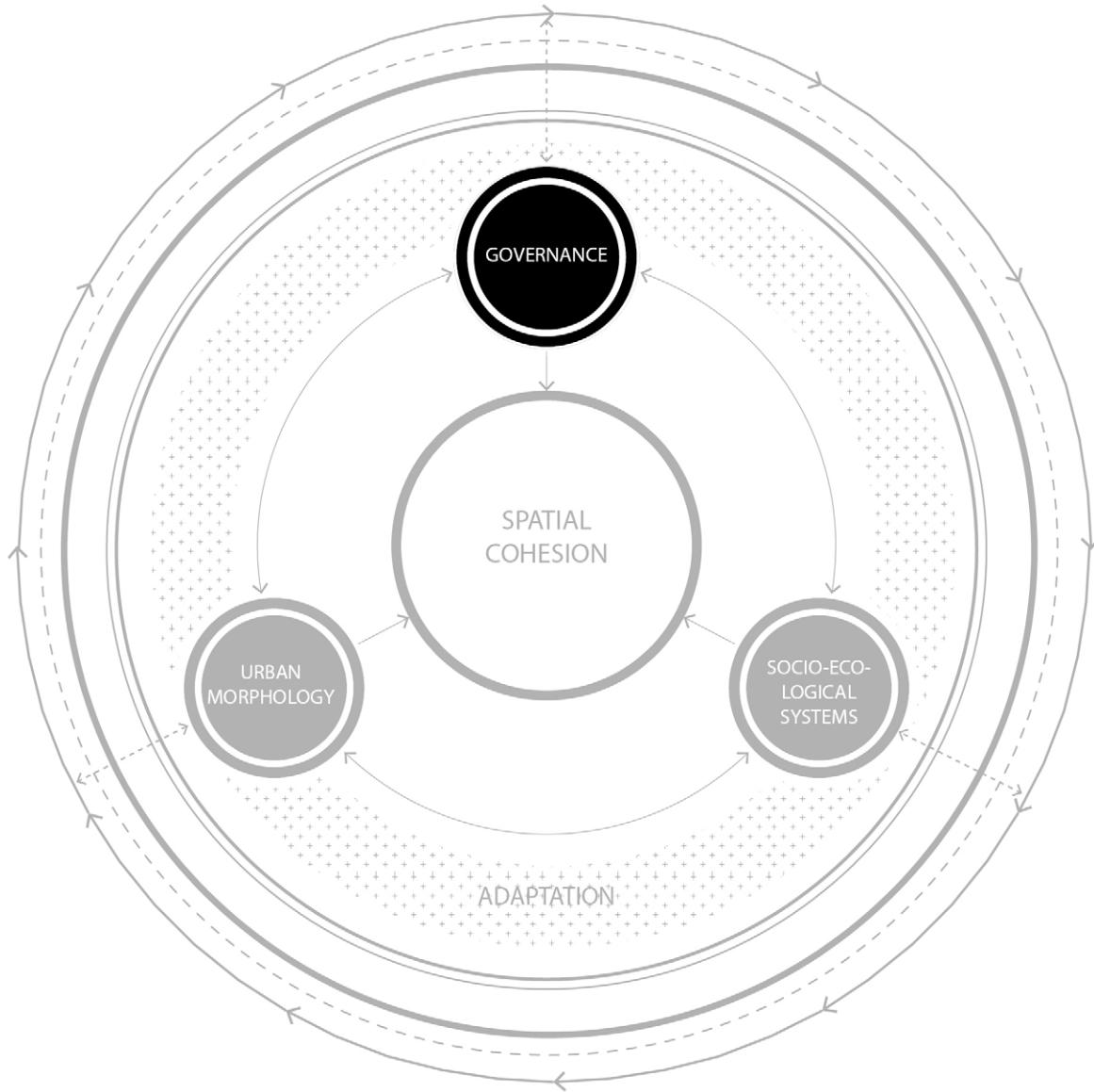


Adaptive Strategic Framework

Systemic Goals



Governance System

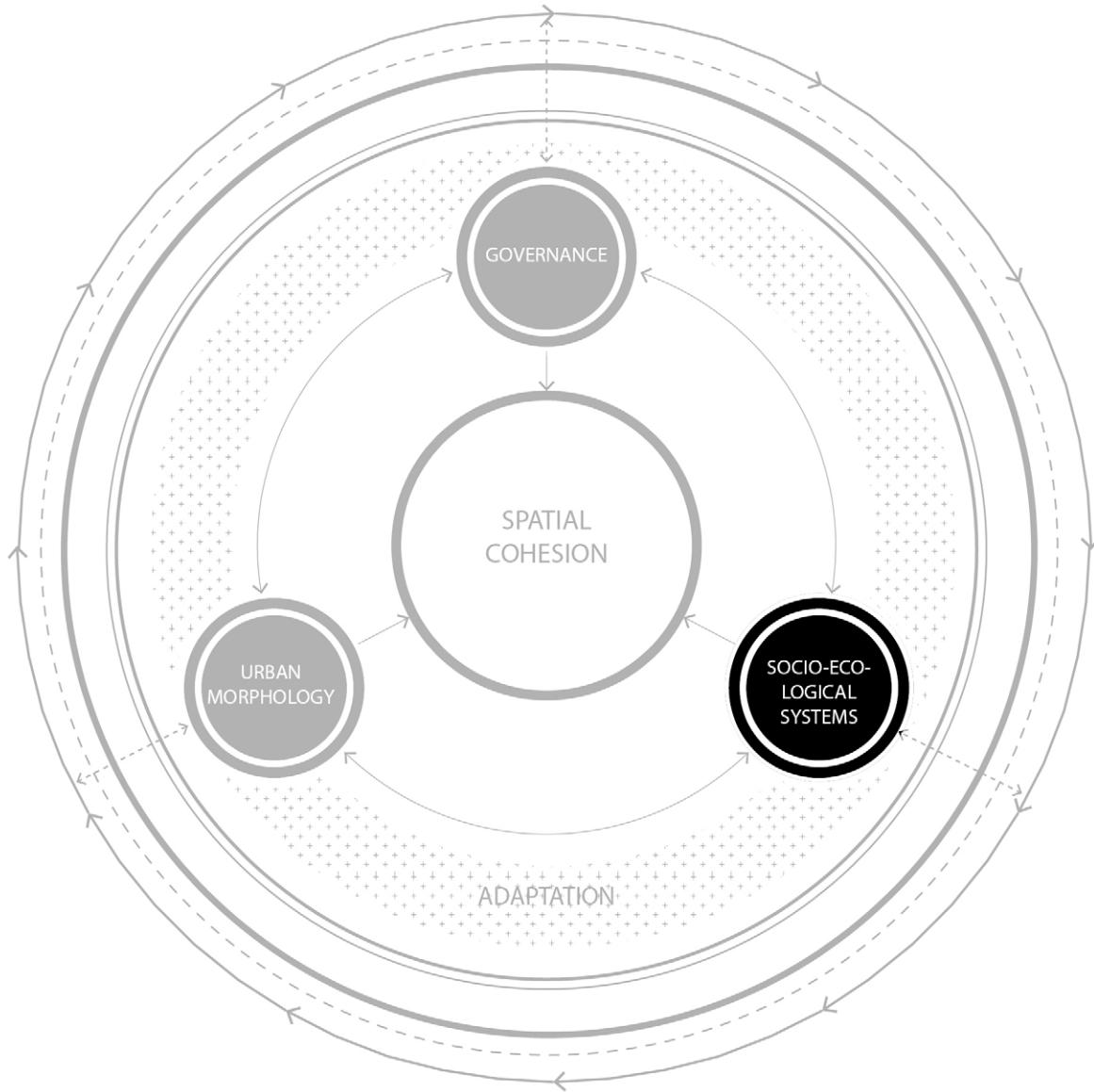


Adaptive Strategic Framework

Systemic Goals



Socio-ecological system

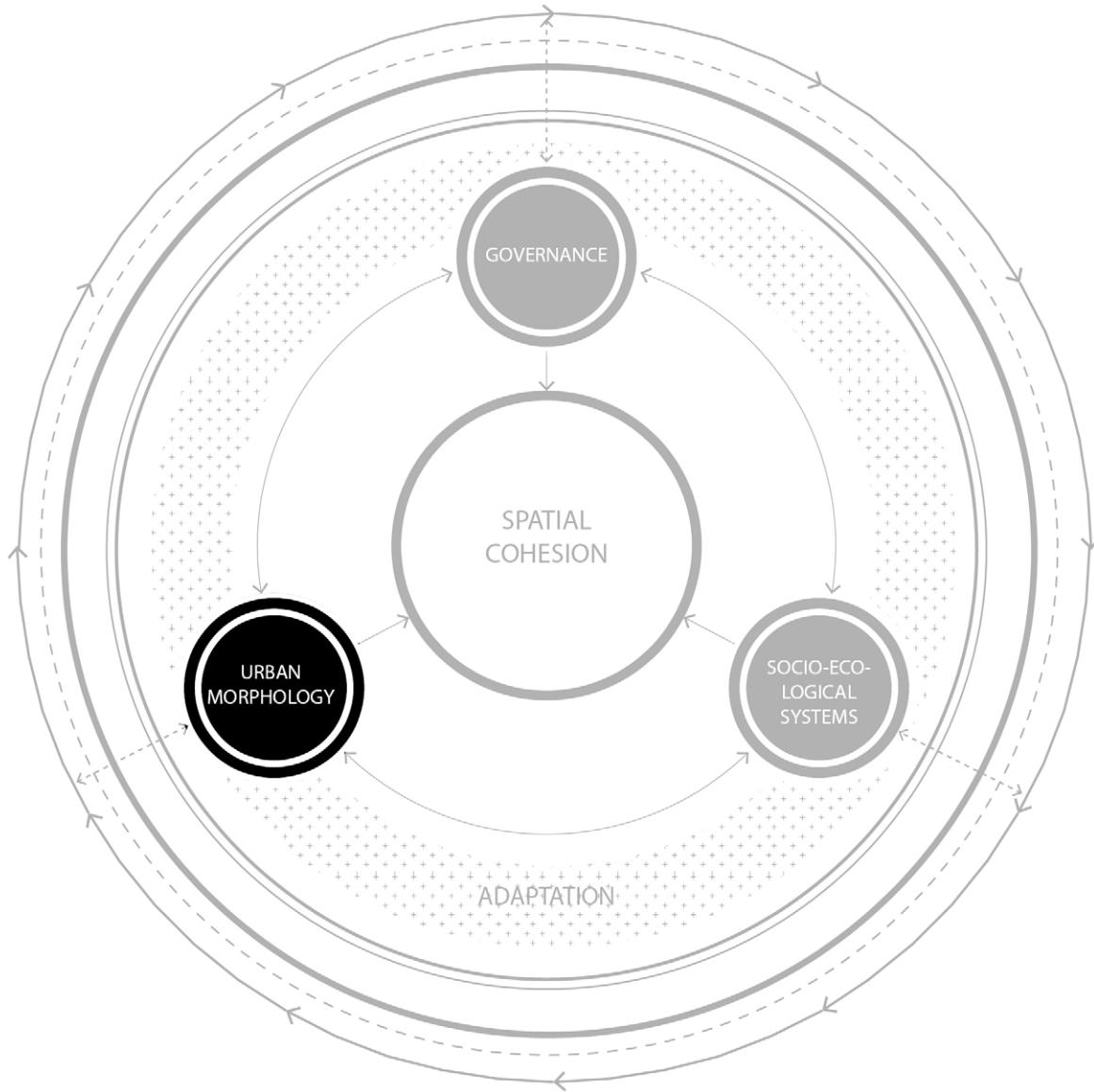


Adaptive Strategic Framework

Systemic Goals



Urban Morphological

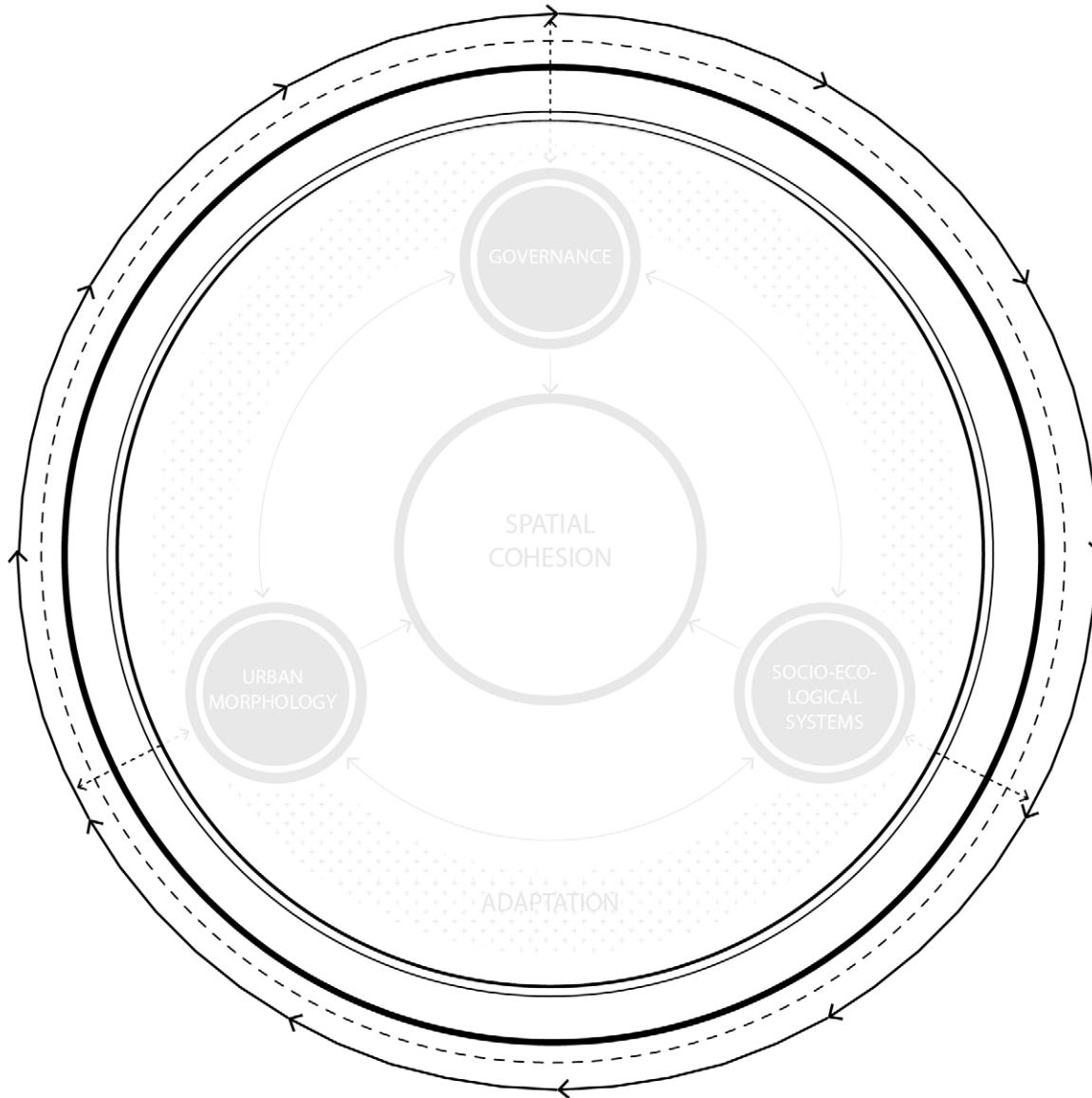


Adaptive Strategic Framework

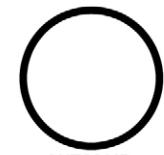
Systemic Goals



Across Scales



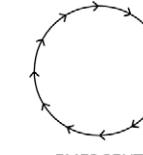
SCOPE: COMPLEX
ADAPTIVE SYSTEM



OUTCOME



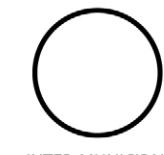
CONCEPTS



EMERGENT
METROPOLITAN
MAVM



MUNICIPAL
LEVEL



INTER-MUNICIPAL
COLLABORATIVE
SYSTEM



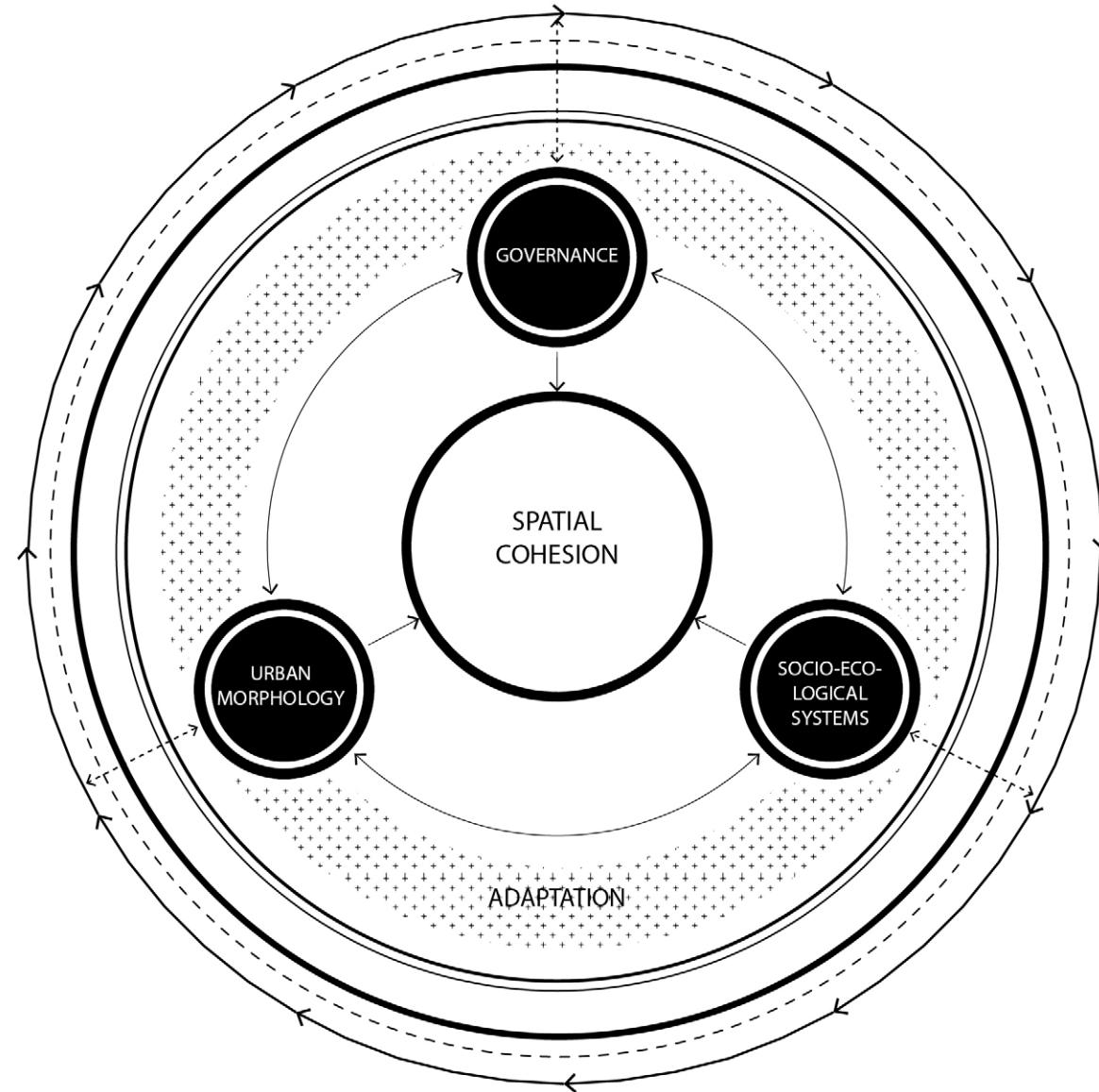
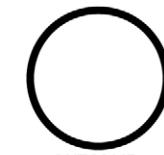
NEIGHBORHOOD
LEVEL

Adaptive Strategic Framework

Systemic Goals



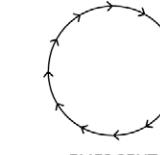
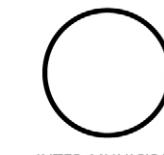
Adaptive Strategic Planning Framework

SCOPE: COMPLEX
ADAPTIVE SYSTEM

OUTCOME



CONCEPTS

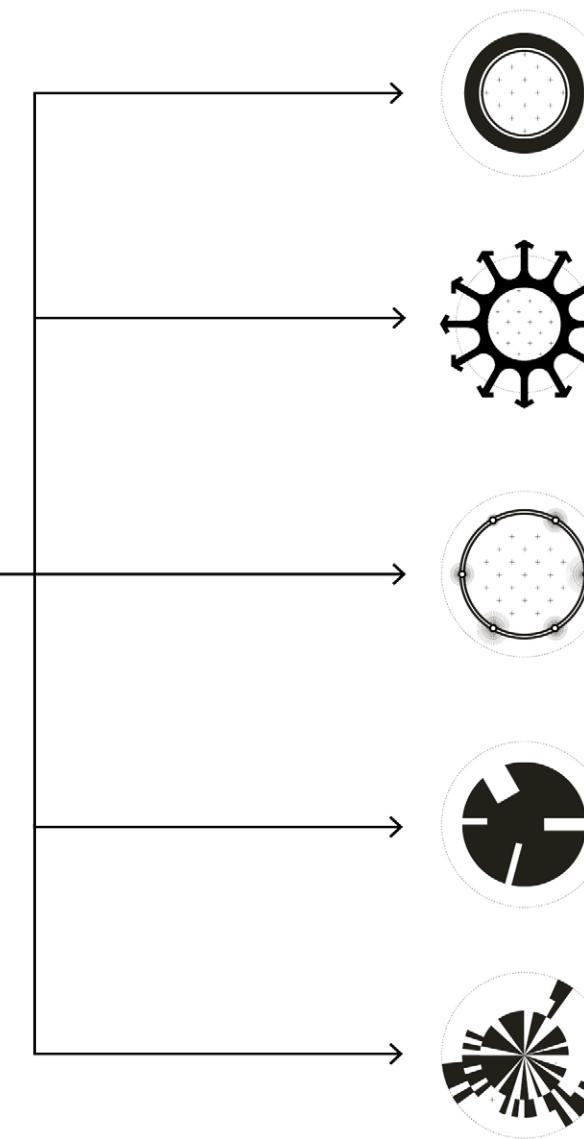
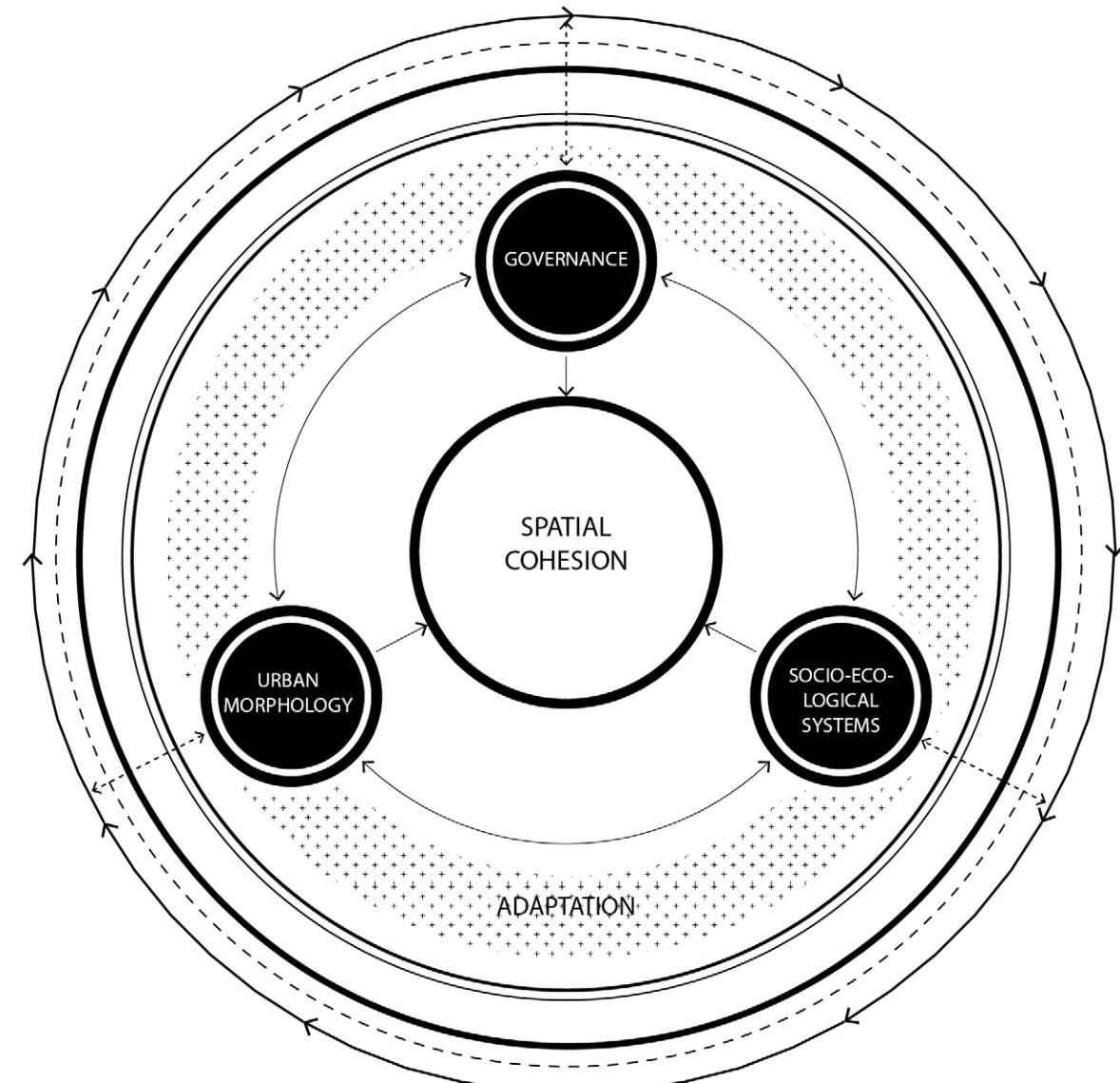
EMERGENT
METROPOLITAN
MAVMMUNICIPAL
LEVELINTER-MUNICIPAL
COLLABORATIVE
SYSTEMNEIGHBORHOOD
LEVEL

Adaptive Strategic Framework

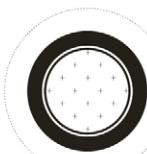
Systemic Goals



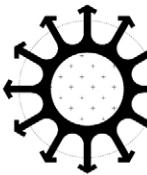
5 Systemic Goals



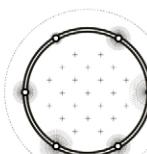
SG1. Water Landscape Integration and Management



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



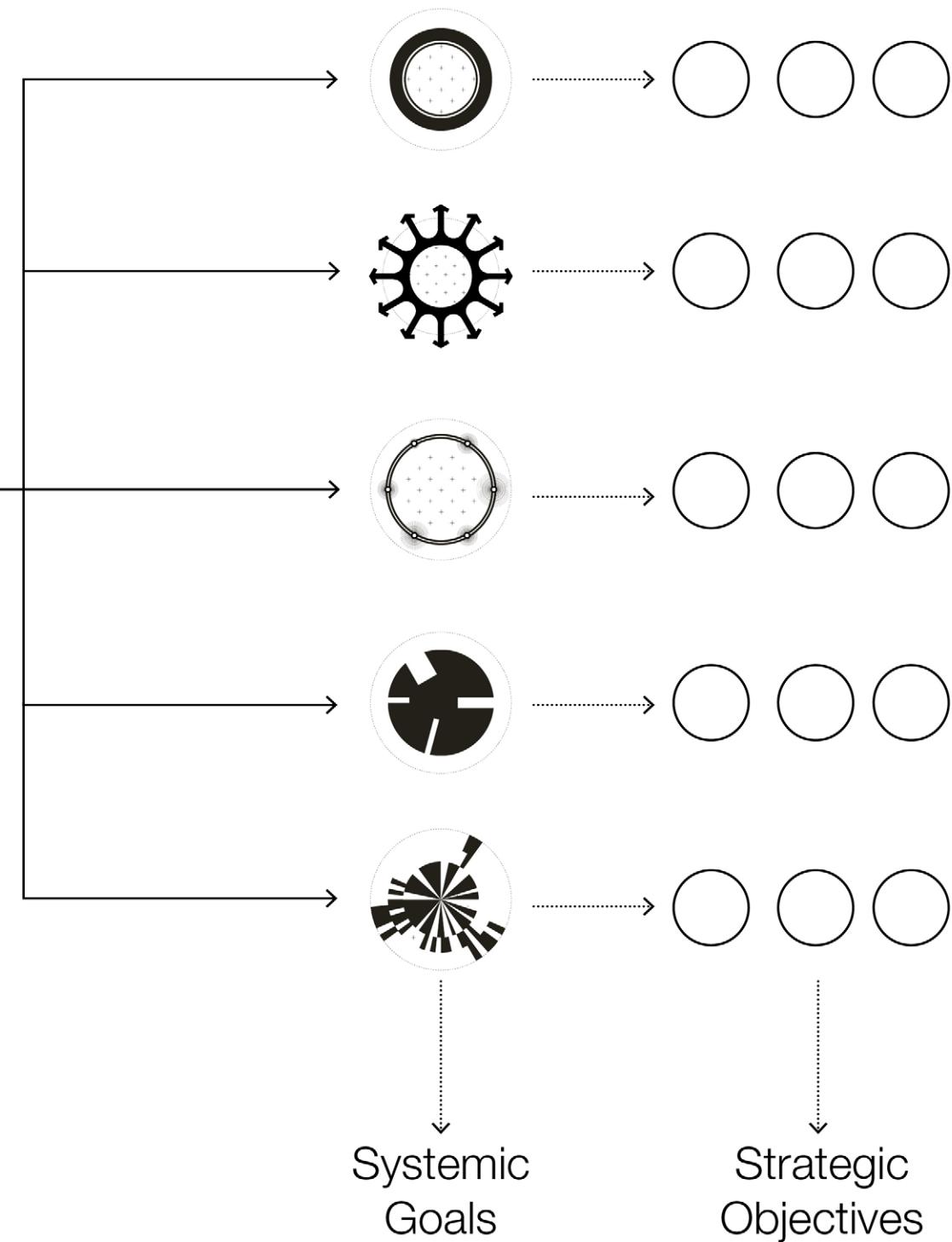
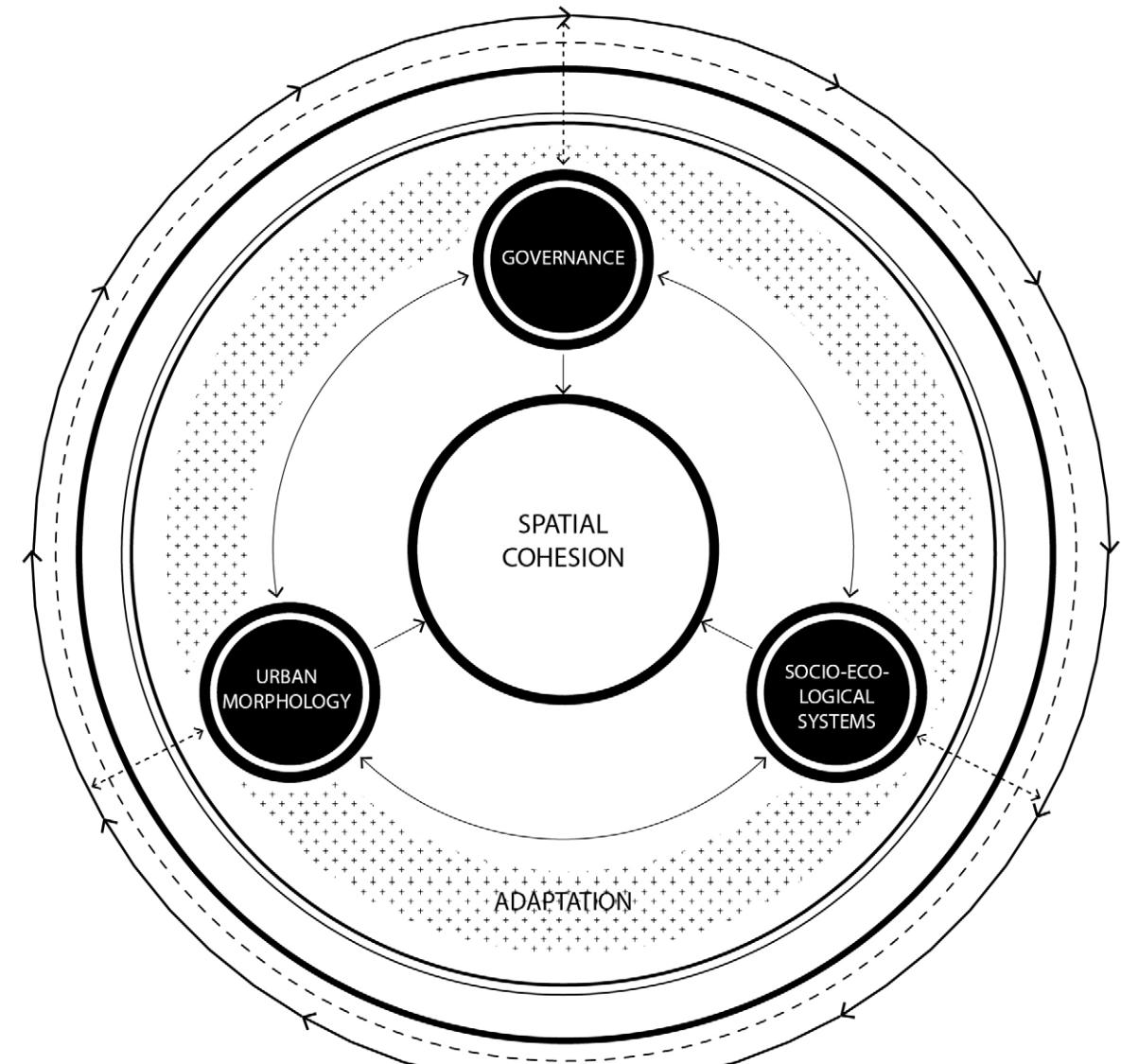
Principles to guide development

Adaptive Strategic Framework

Systemic Goals



5 Systemic Goals

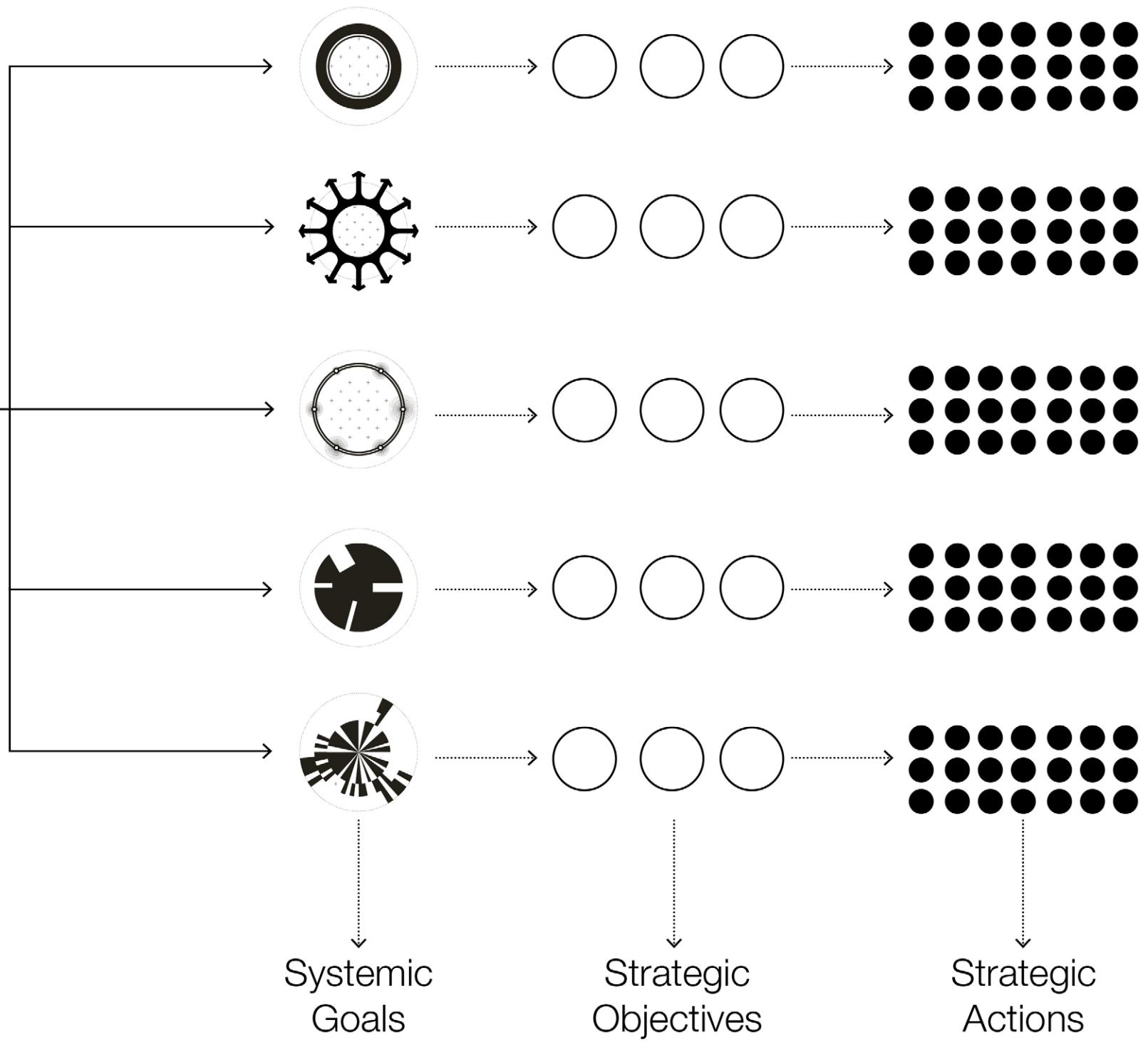
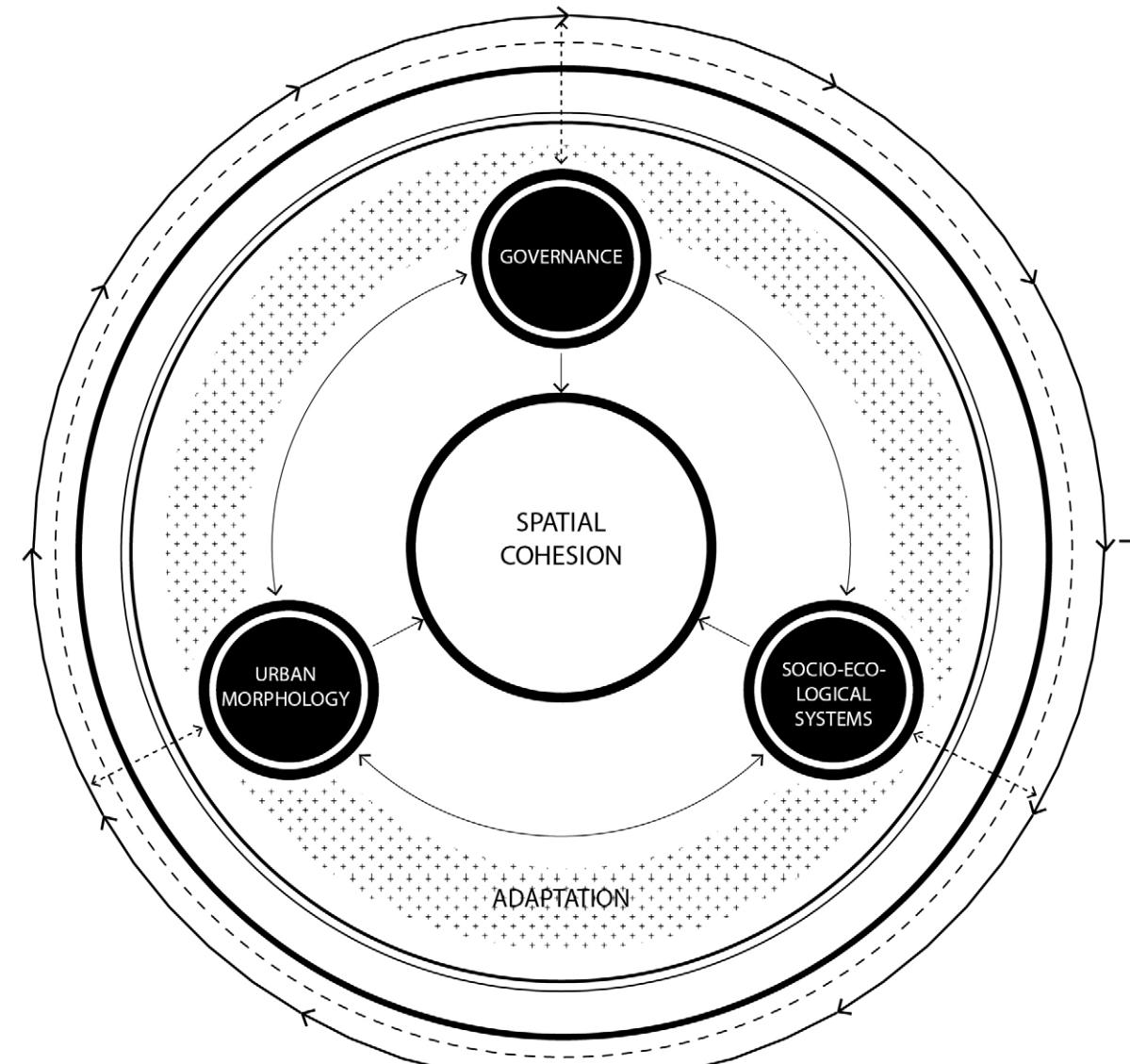


Adaptive Strategic Framework

Systemic Goals



5 Systemic Goals

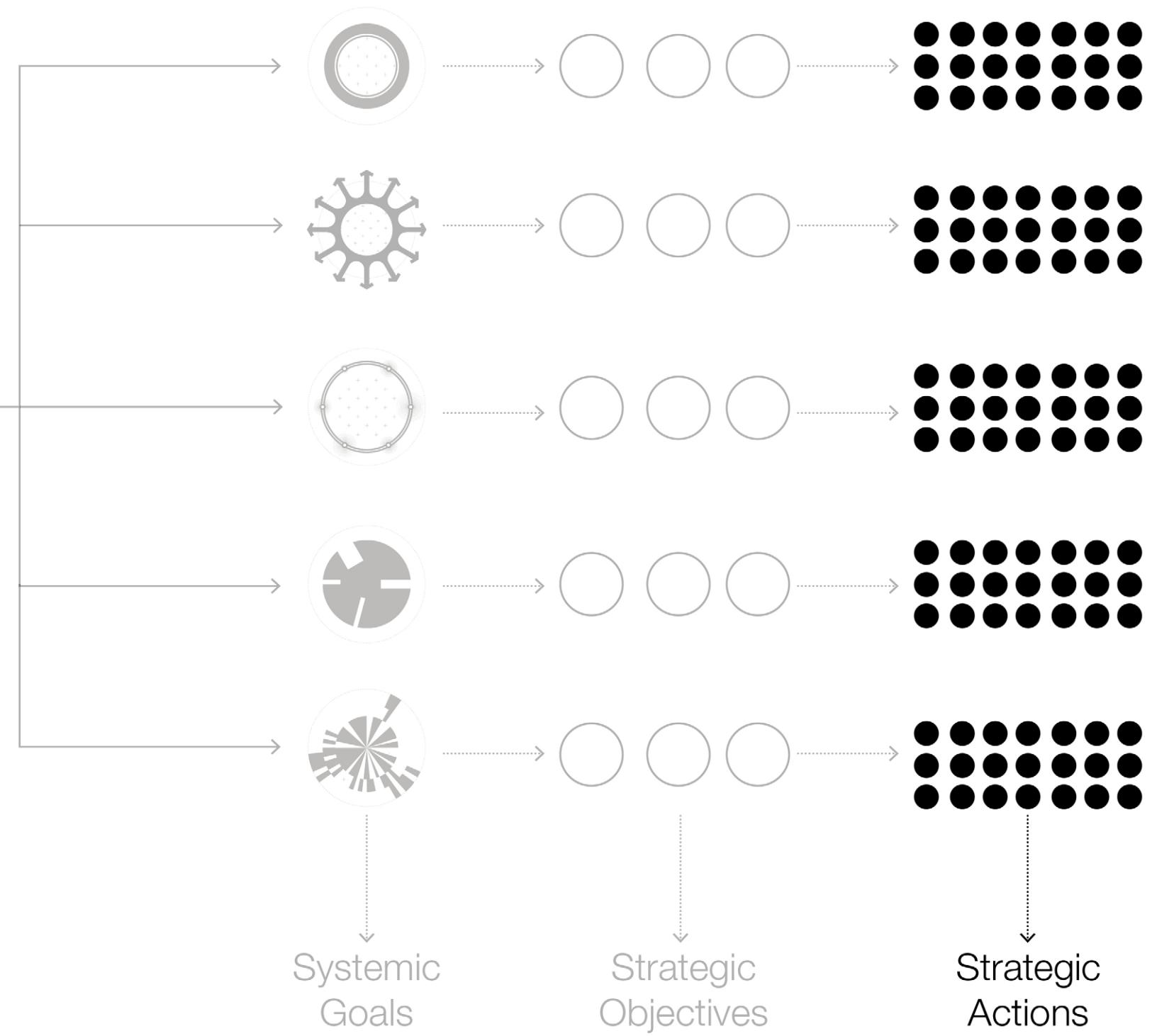
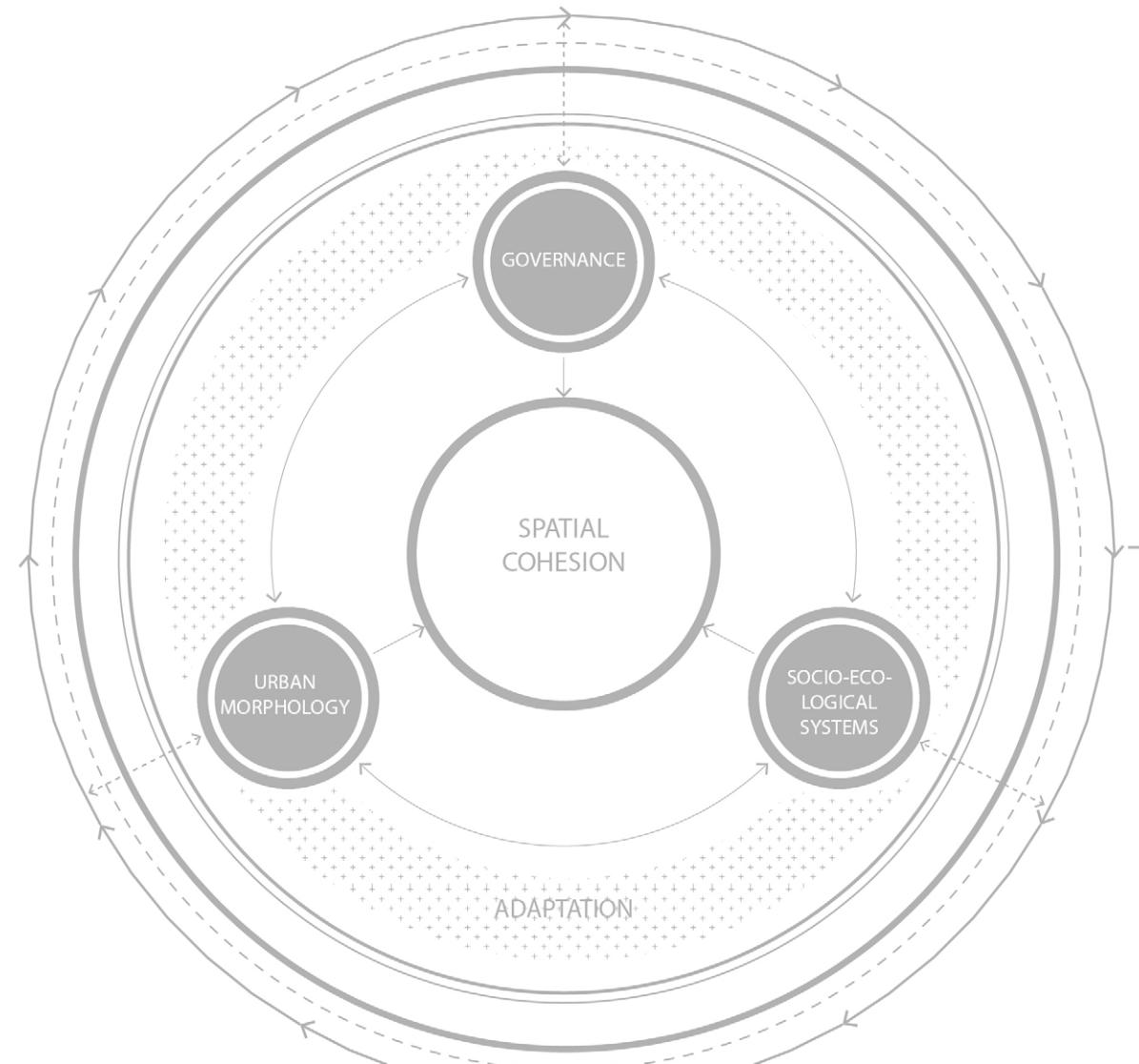


Adaptive Strategic Framework

Systemic Goals

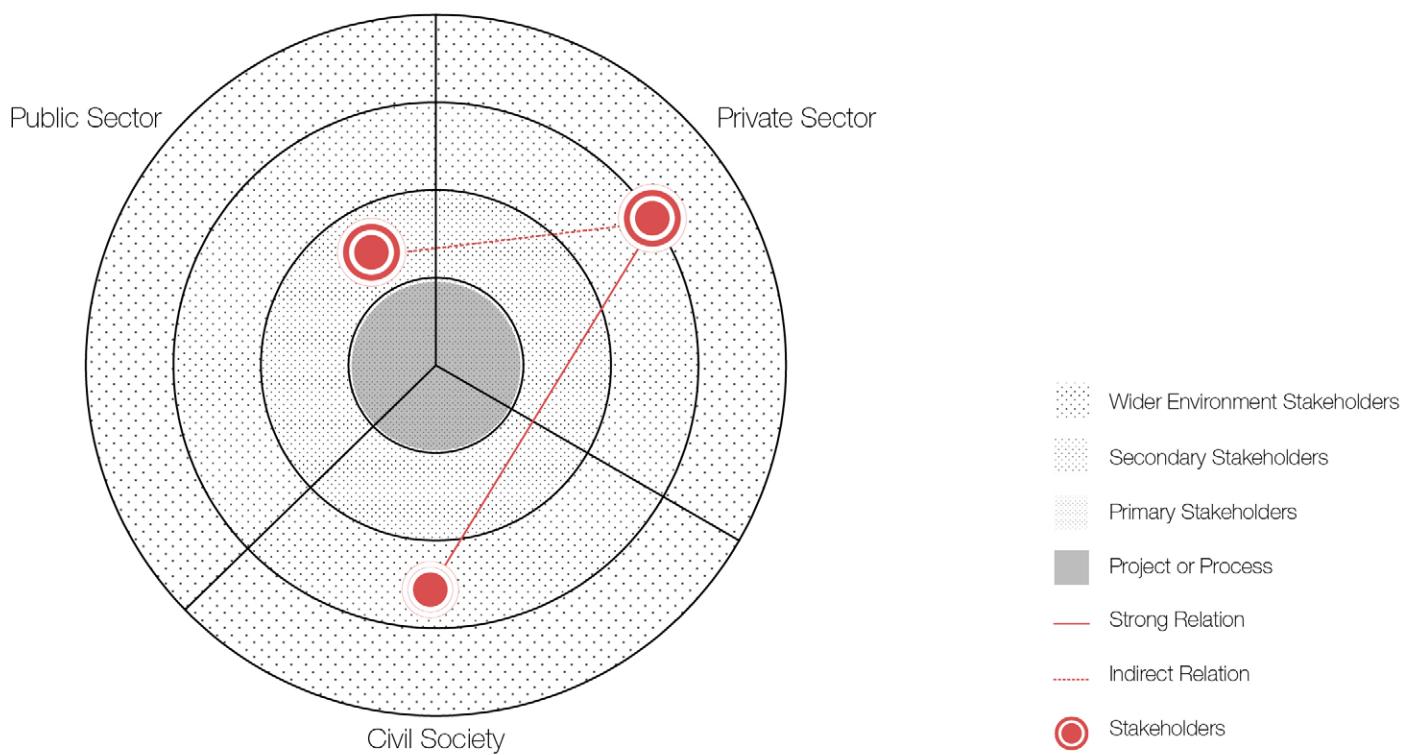


5 Systemic Goals



Strategies and Actions

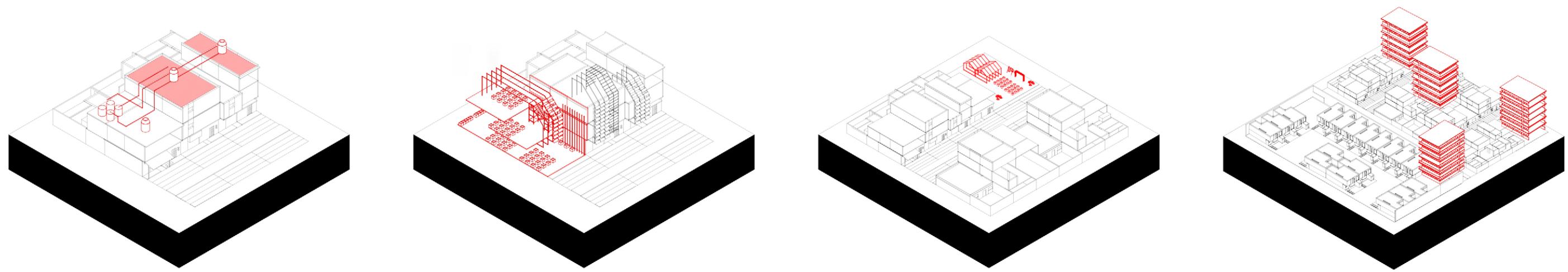
Spatial Actions Operability



Participation of Involved Actors

Strategies and Actions

Spatial Actions Operability



MICRO

SMALL

MEDIUM

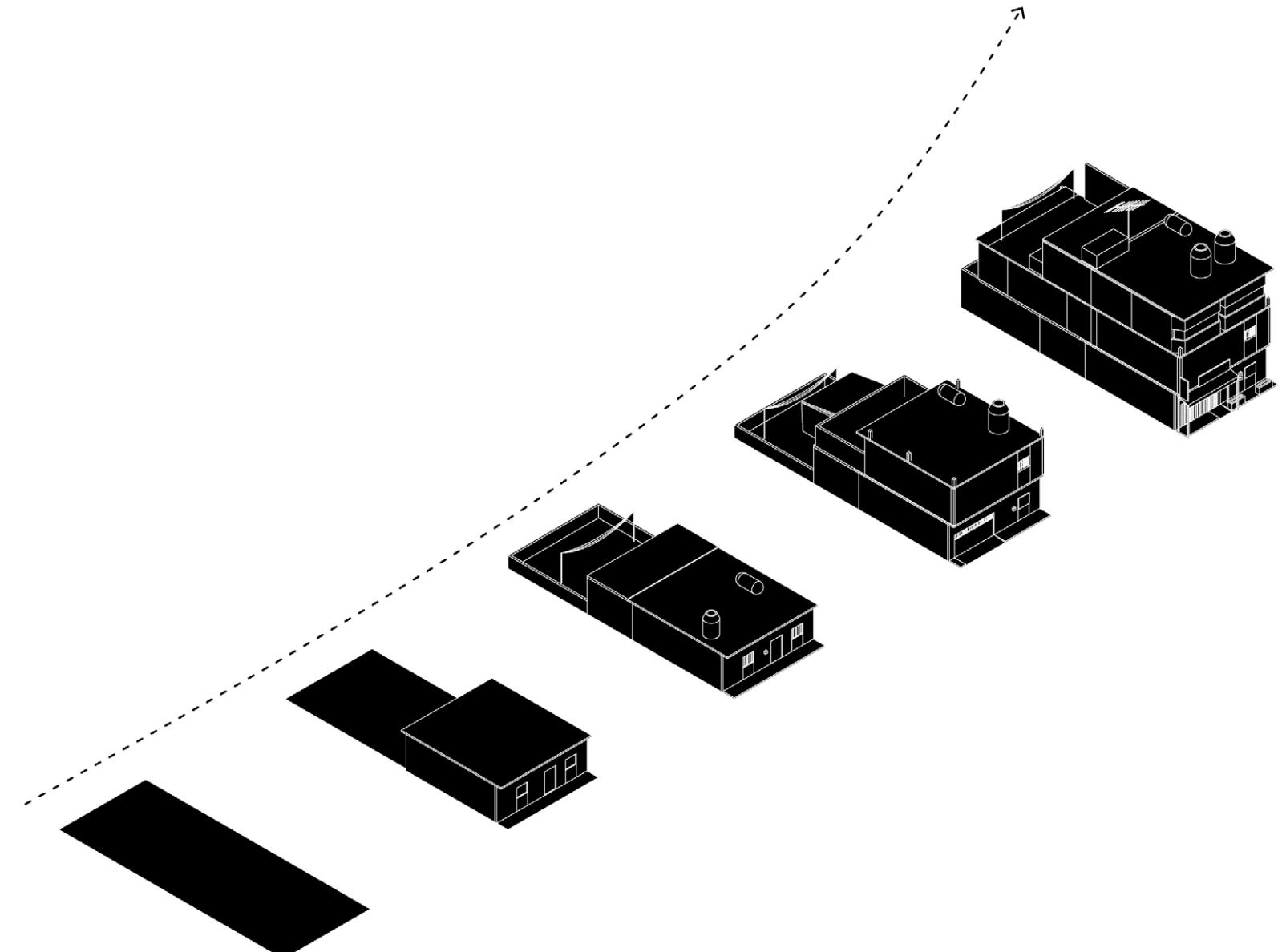
LARGE



Scale of Action

Strategies and Actions

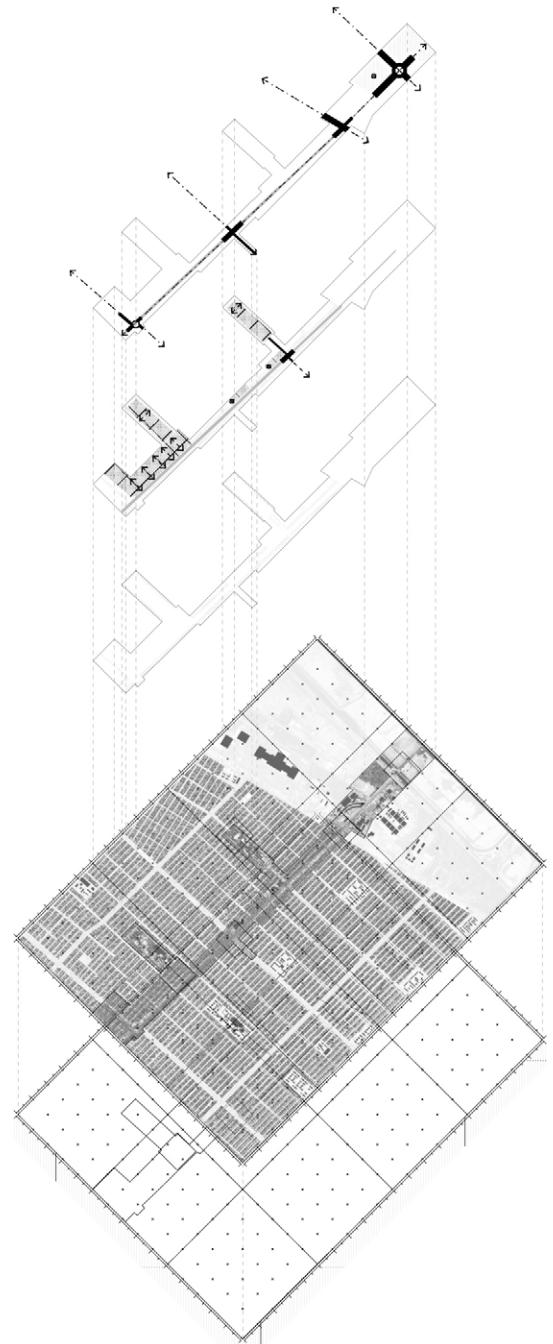
Spatial Actions Operability



Time of Implementation

Strategies and Actions

Spatial Actions Operability



From local to intermunicipal level

Interests and Capacities

Adaptive Strategic Framework

Spatial Actions Operability



Participation of Involved Actors + Scale of Action + Time of Implementation + Interests and Capacities at Different Levels of the Territory

Correlation Between Variables

Strategies and Actions

Water Landscape Integration and Management



SG1

0 km 2 6 12

Strategies and Actions

Green Infrastructure System and Quality of Public and Open Space

SG2

0 km 2 6 12



Strategies and Actions

Densification of the Built System

SG3

0 km

2

6

12



Strategies and Actions

Productive Landscapes



SG4

0 km

2

6

12



Strategies and Actions

Transport and Mobility System



SG5

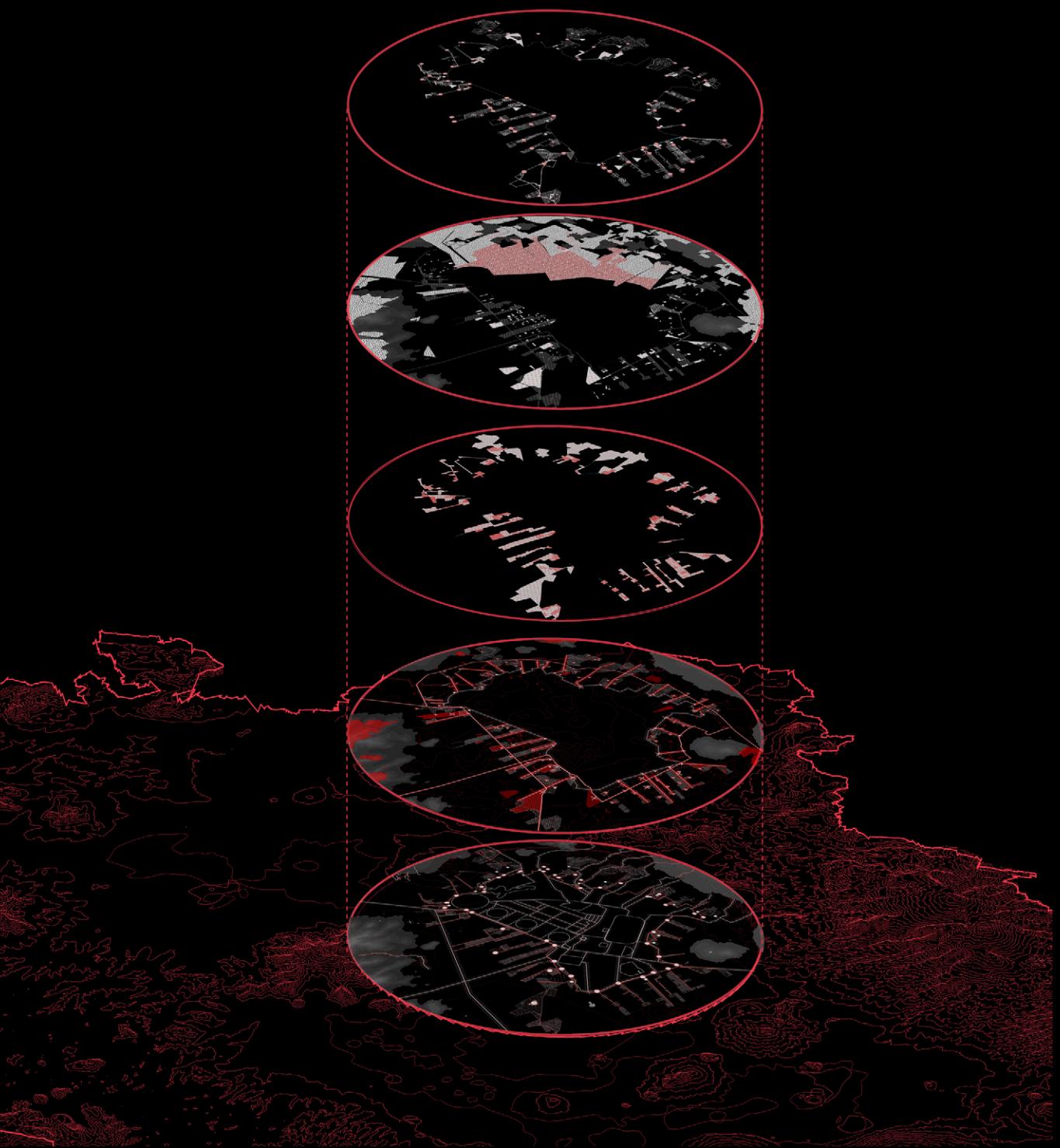
0 km 2 6 12



Strategies and Actions



5 Layers



XL Potentials

Expand planning scope

Adaptive planning framework

Local perspective

Spatial cohesion

Design Local Level

Local Perspective







Design Local Level

Local Perspective



Local Potentials at Gate Ecatepec

Design Local Level

Local Perspective



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

Design Local Level

Scenarios



Scenario Construction



Current Detail Area

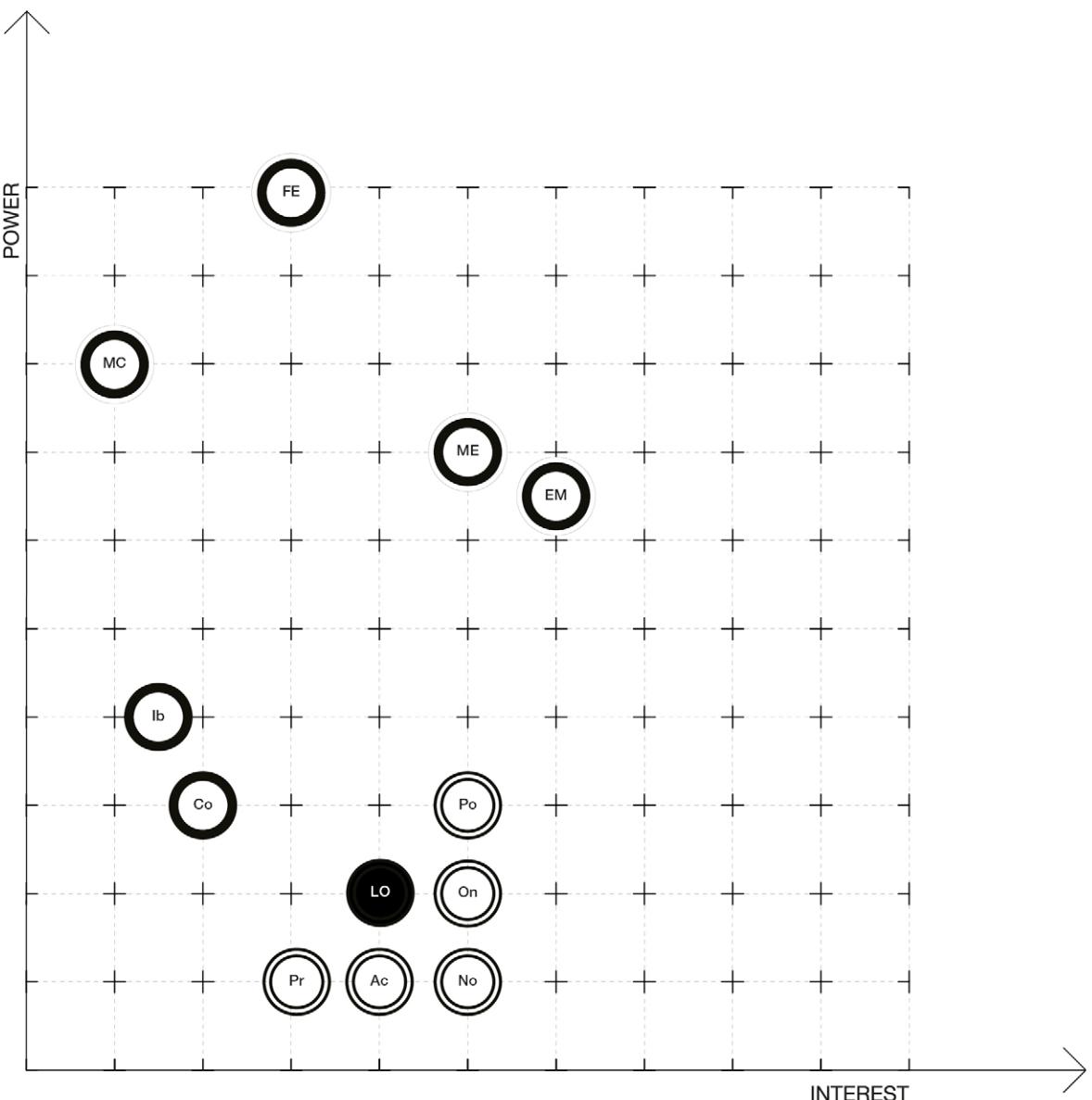
0 m | 20 | 40 | 100 |

Design Local Level

Scenarios



Scenario Construction



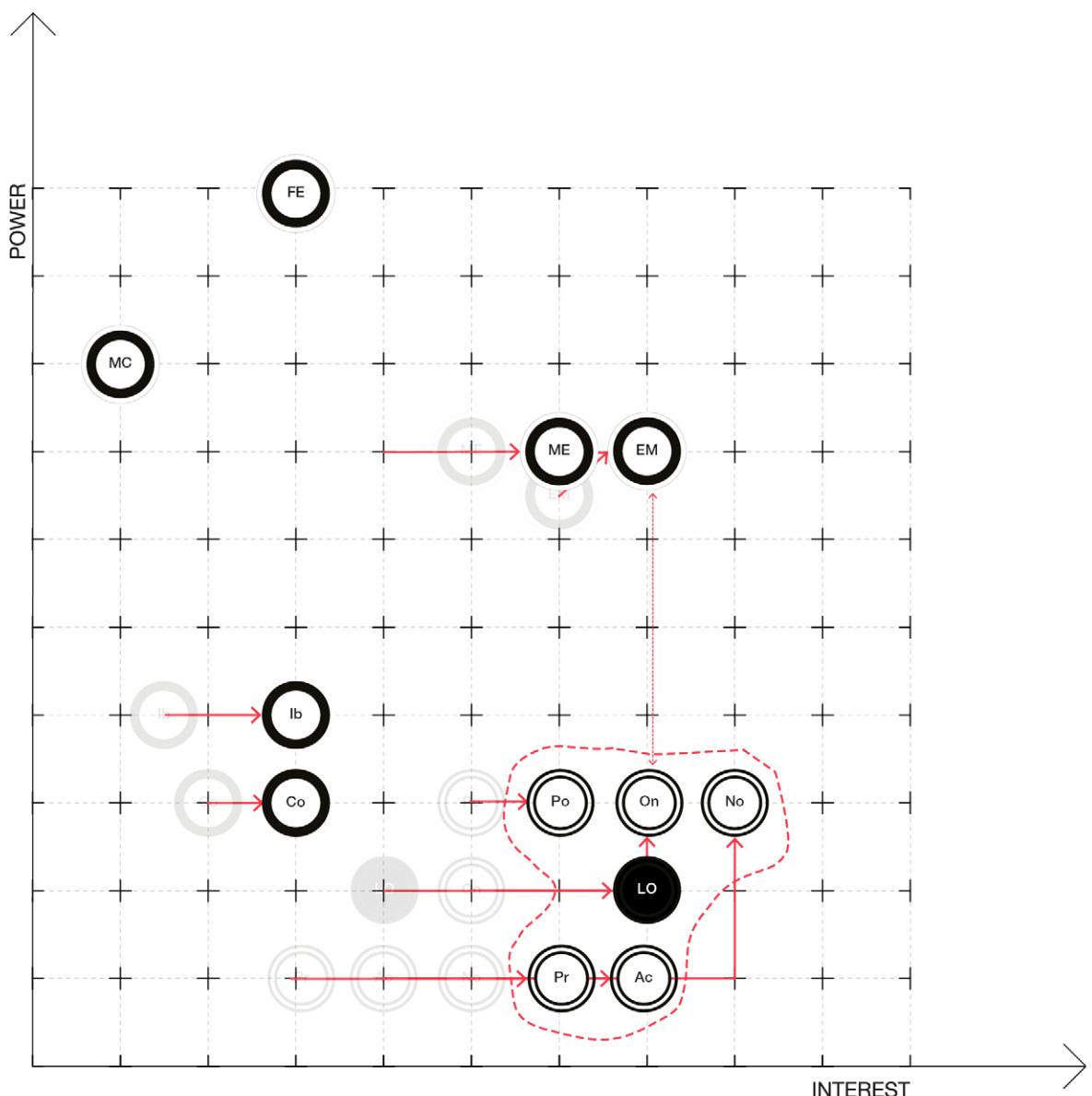
Stakeholders Power and Interest

Design Local Level



Scenarios

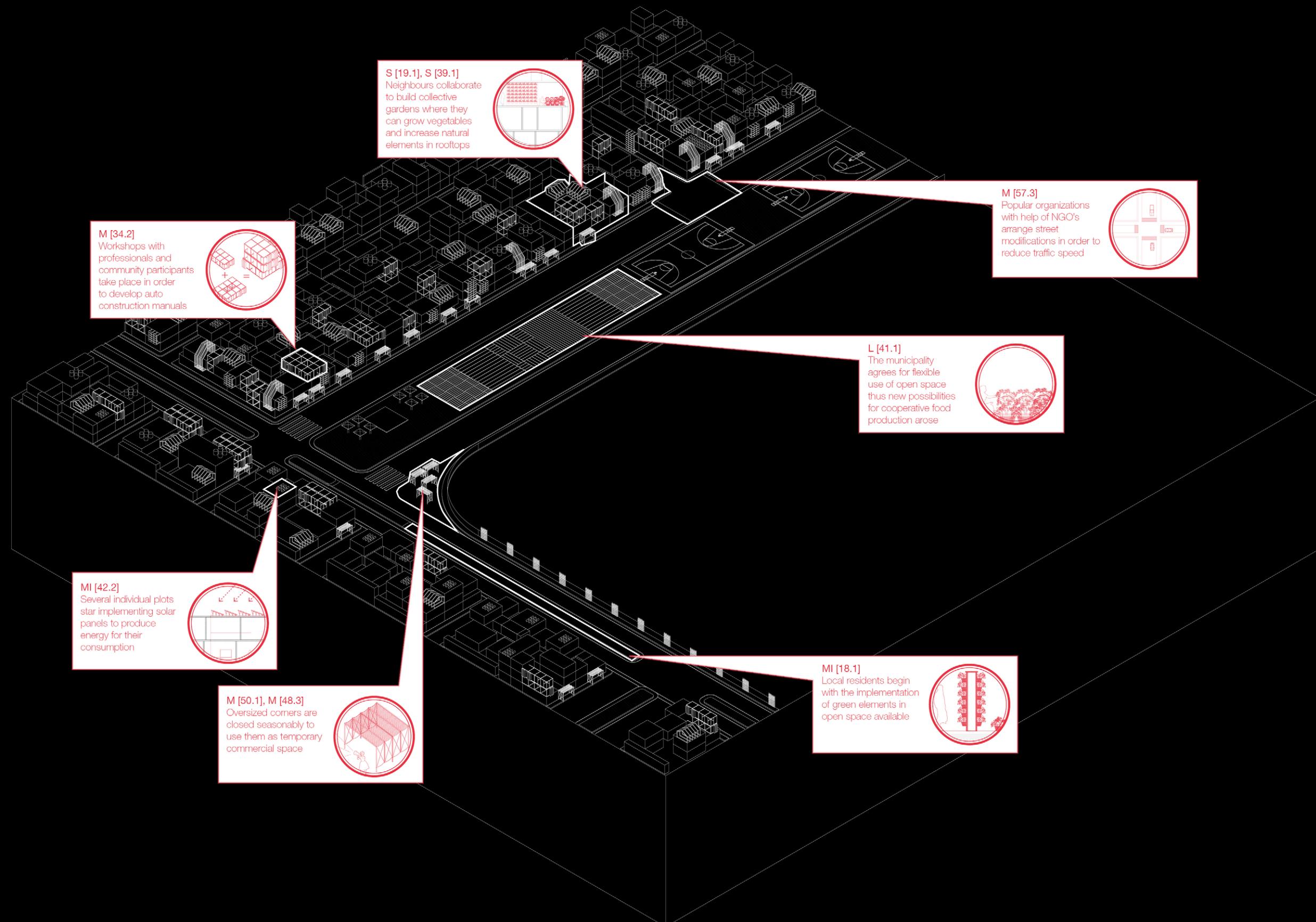
Low Integration Scenario



Stakeholders Power and Interest

Design Local Level

Scenarios

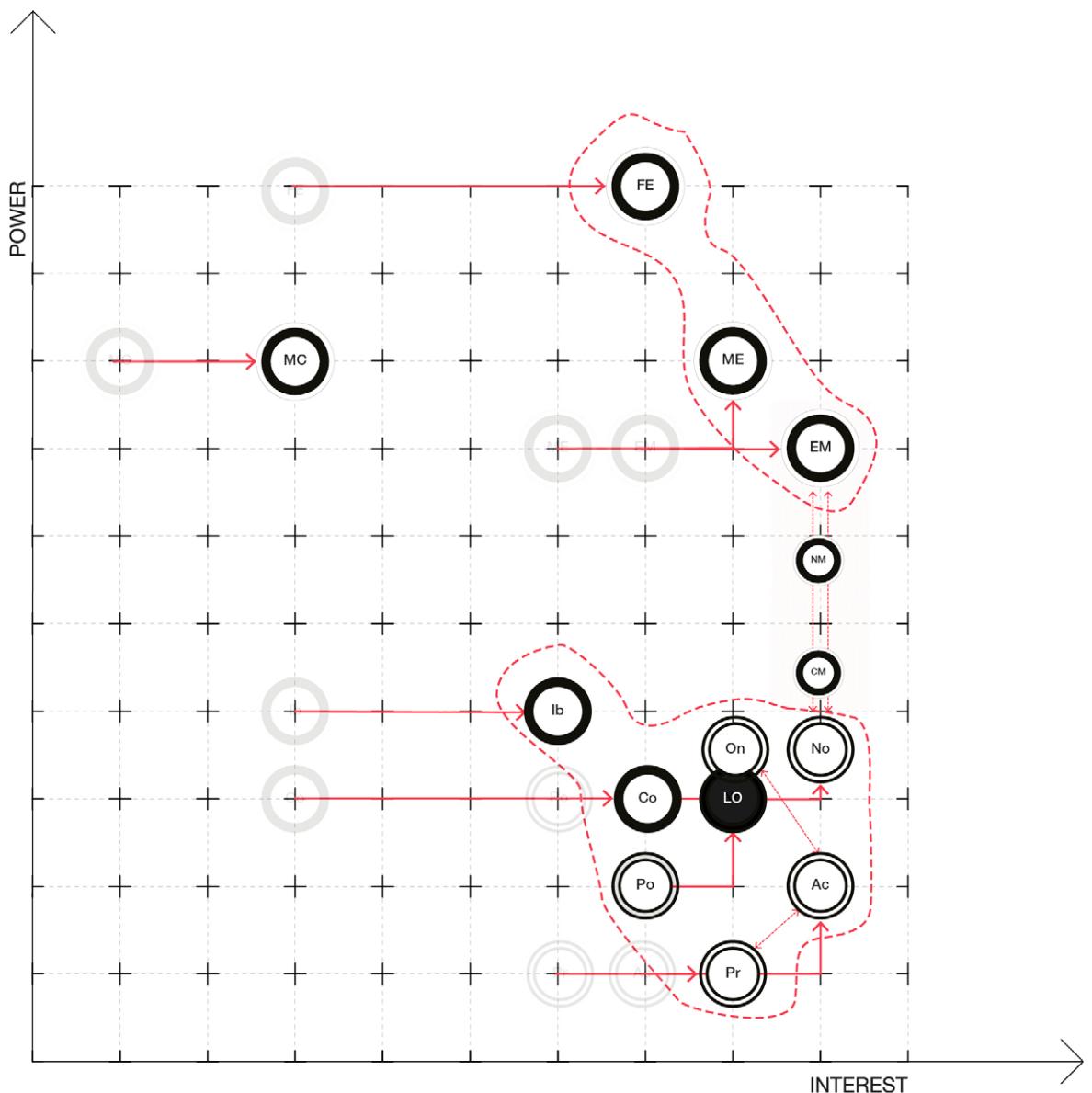


Design Local Level

Scenarios



High Integration Scenario

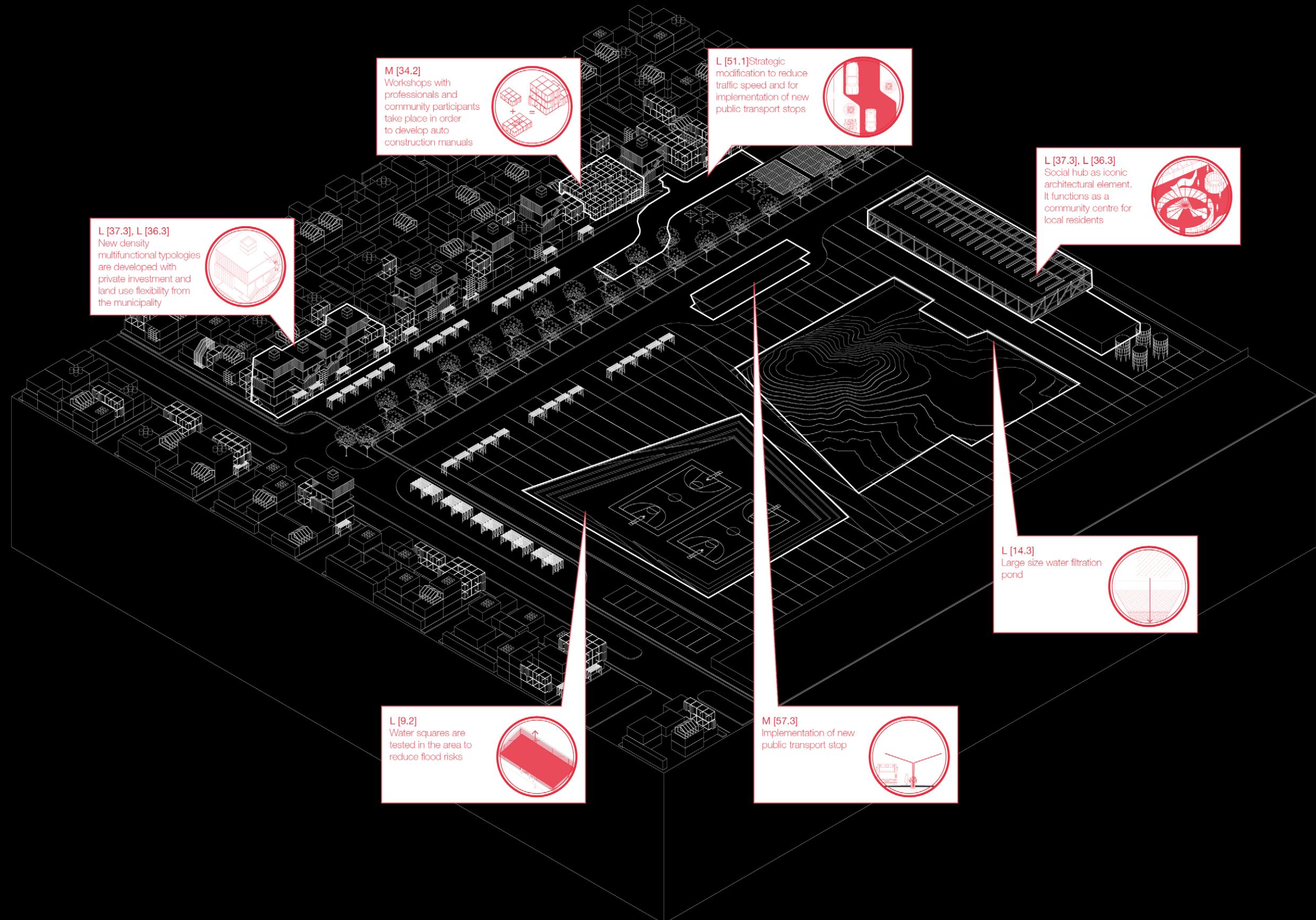


Stakeholders Power and Interest

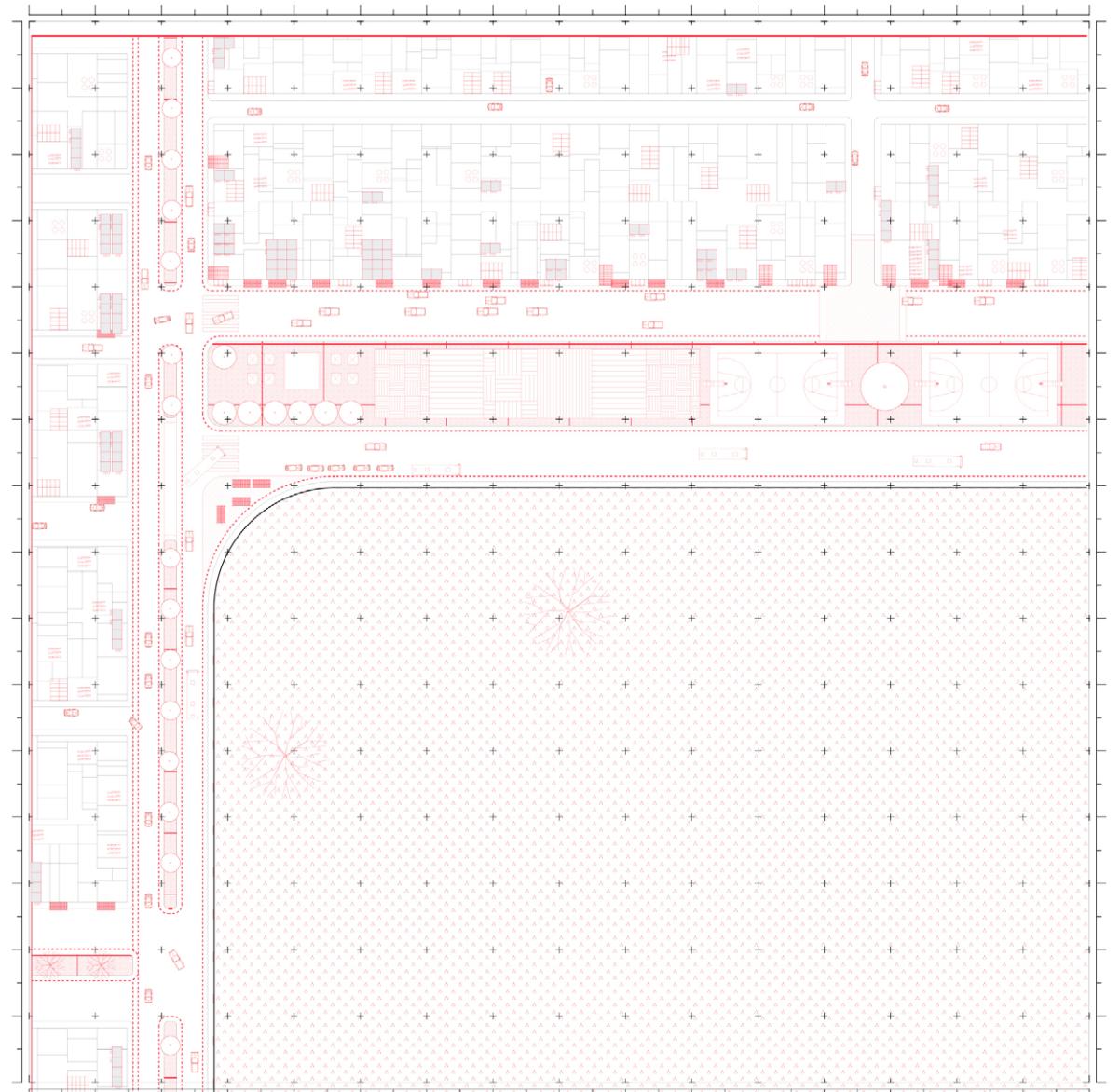


Design Local Level

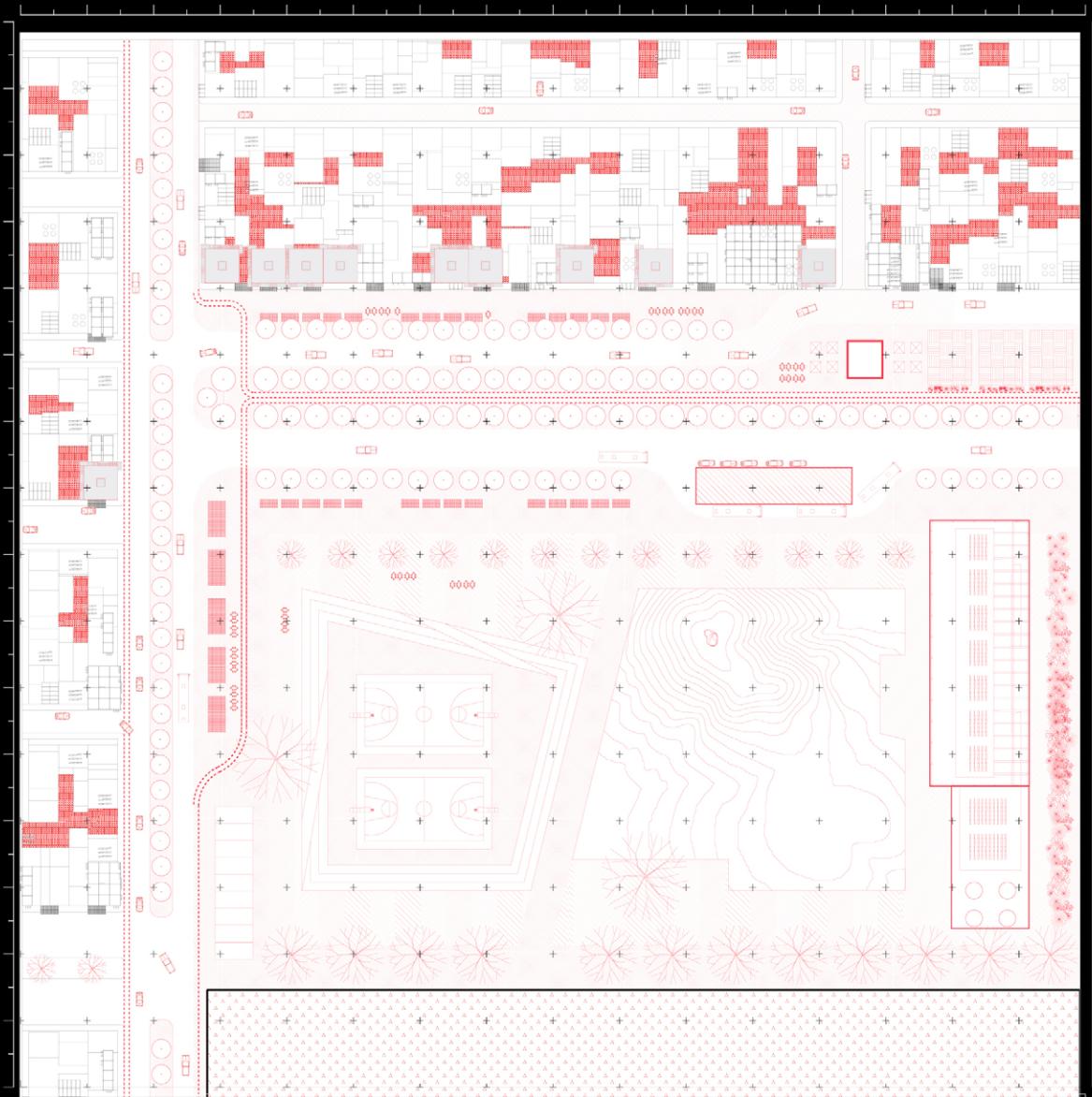
Scenarios



Levels of Transformation Reached



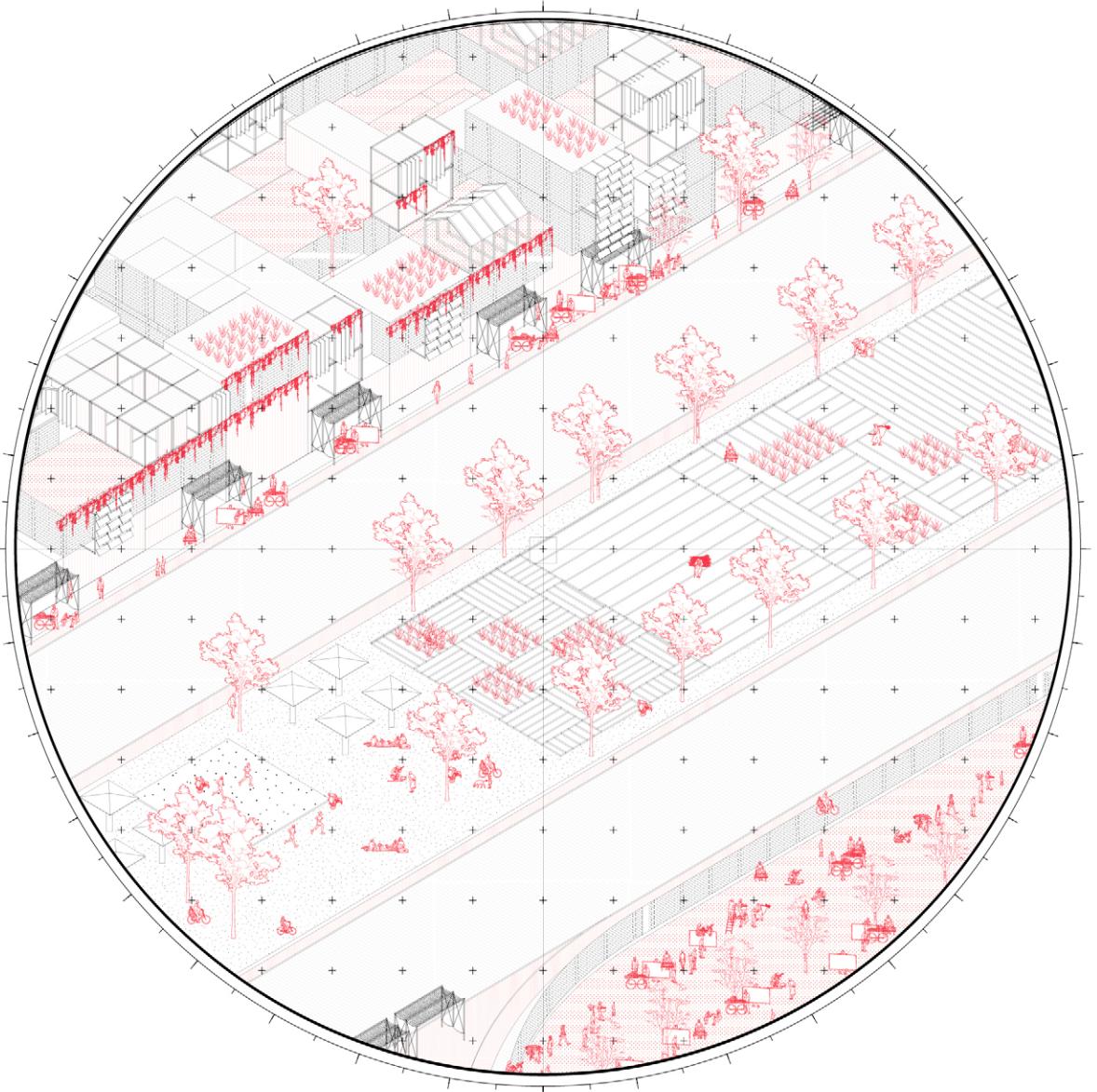
Low Integration Scenario



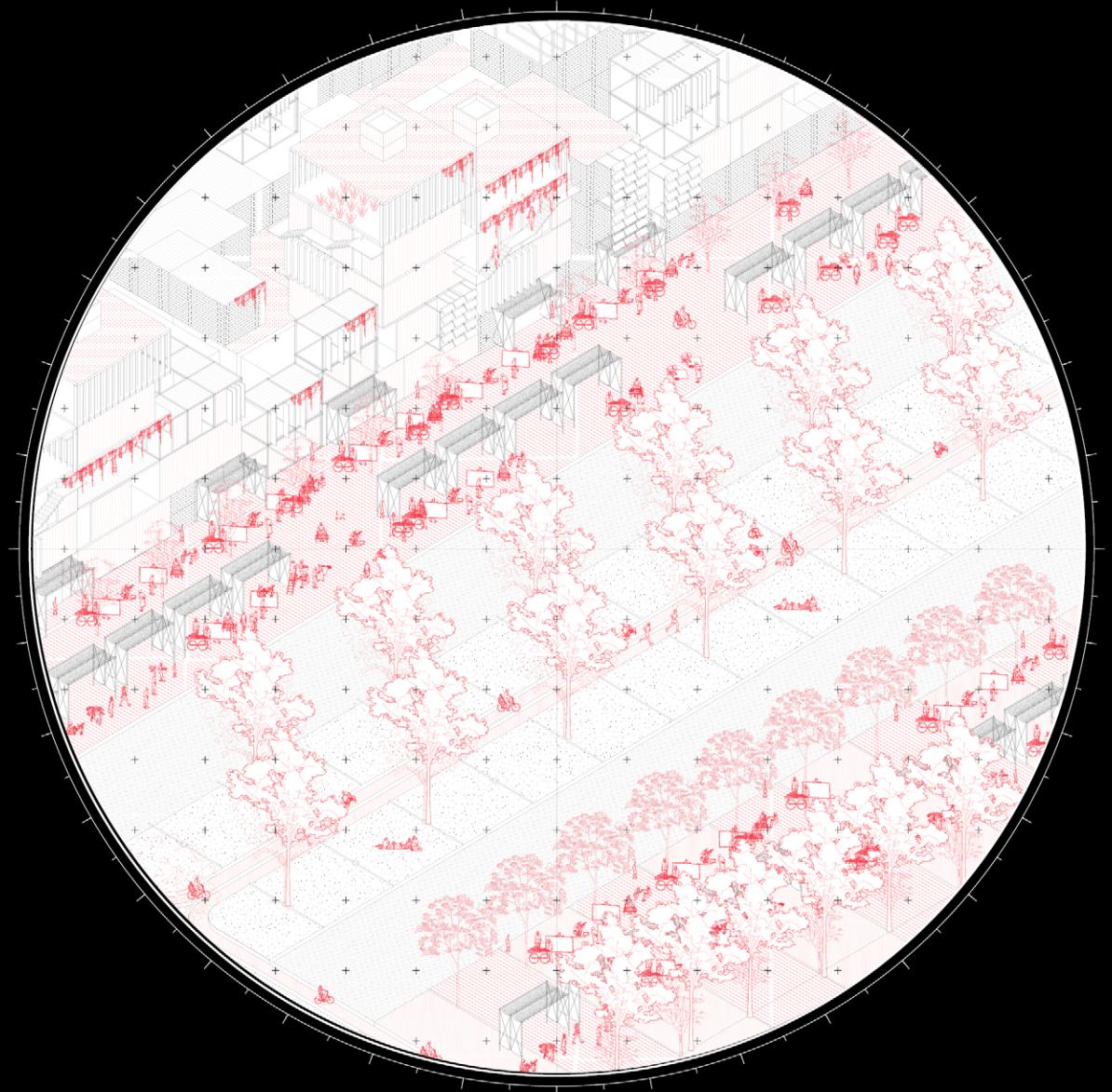
High Integration Scenario

0m | 100m

Levels of Transformation Reached

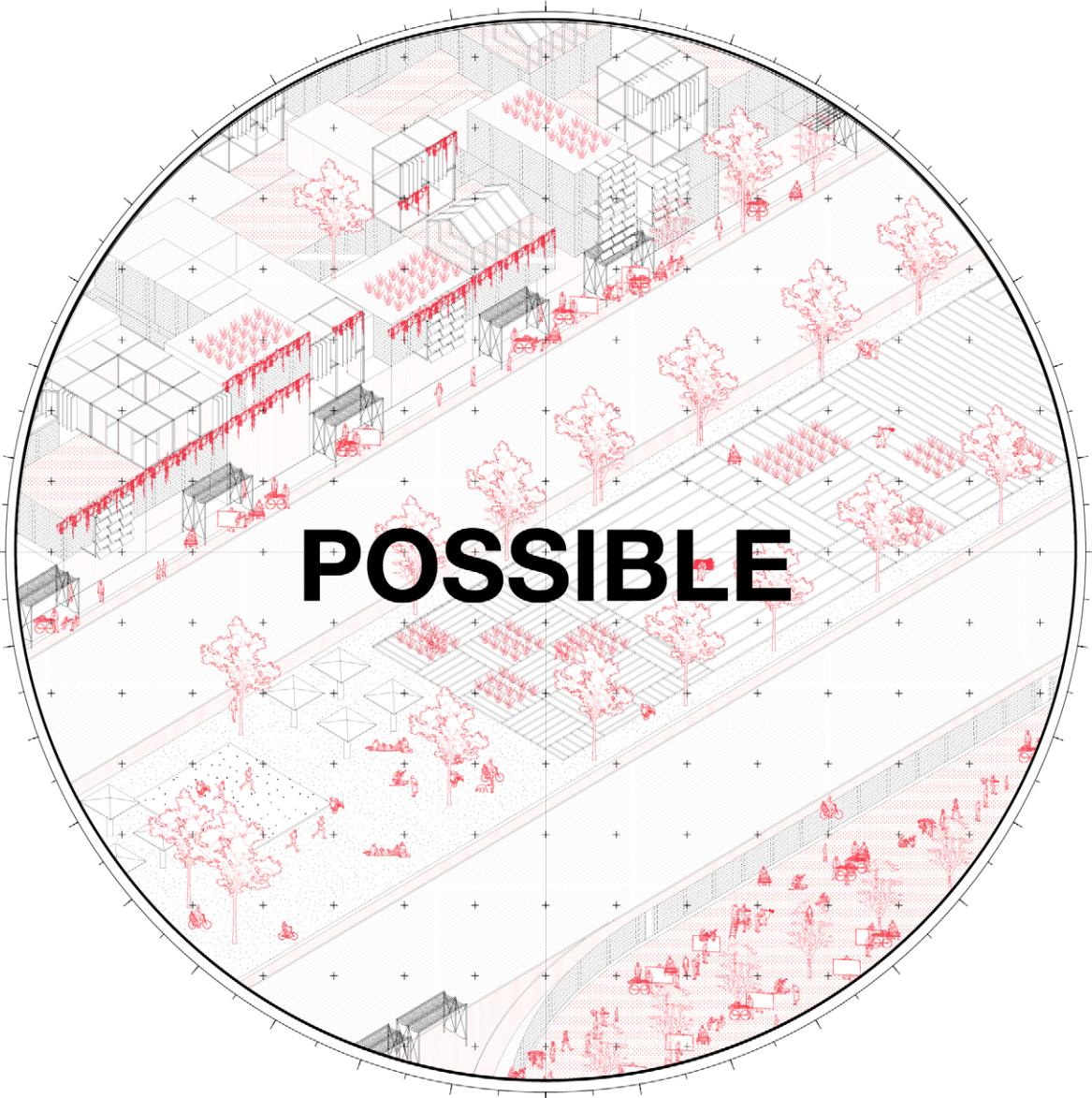


Low Integration Scenario



High Integration Scenario

Levels of Transformation Reached



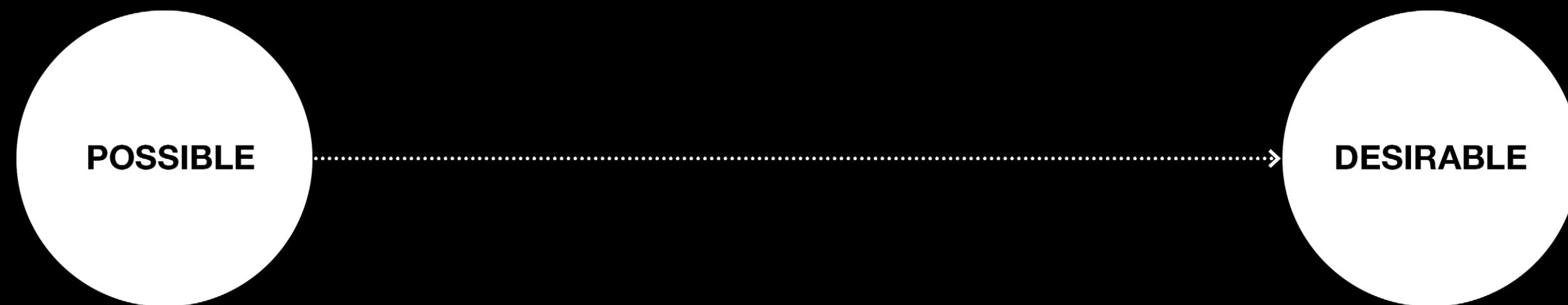
Low Integration Scenario

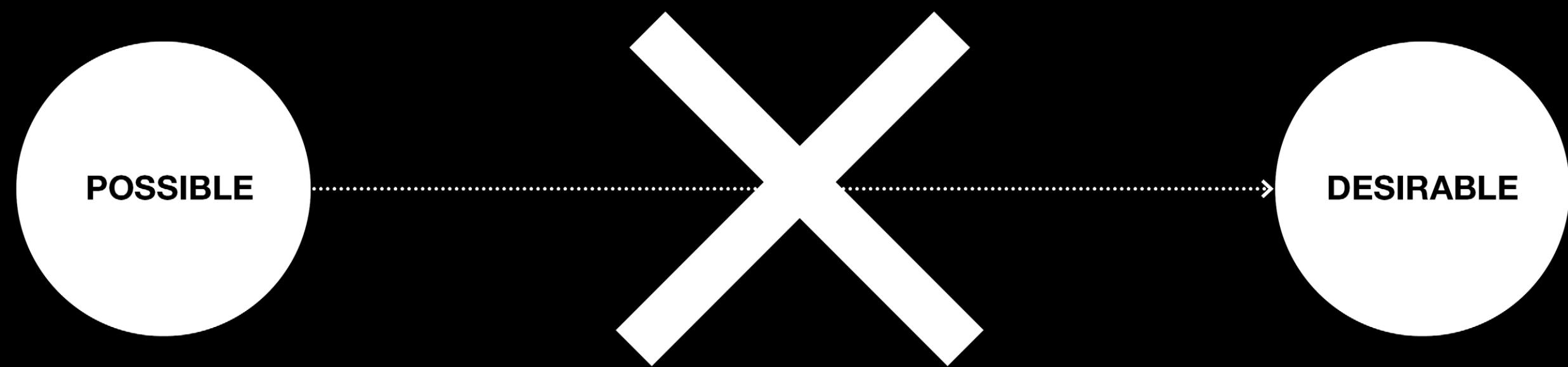


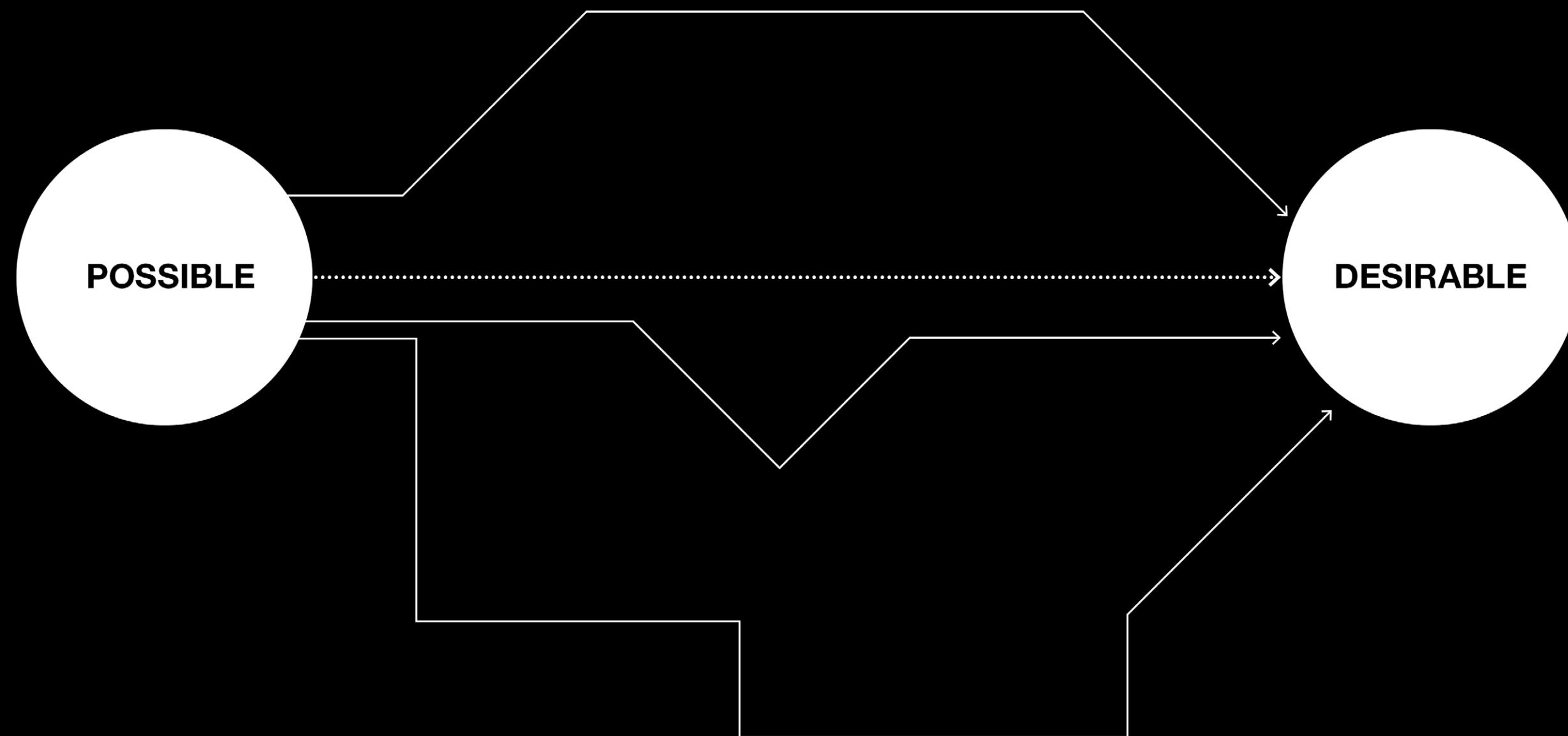
High Integration Scenario

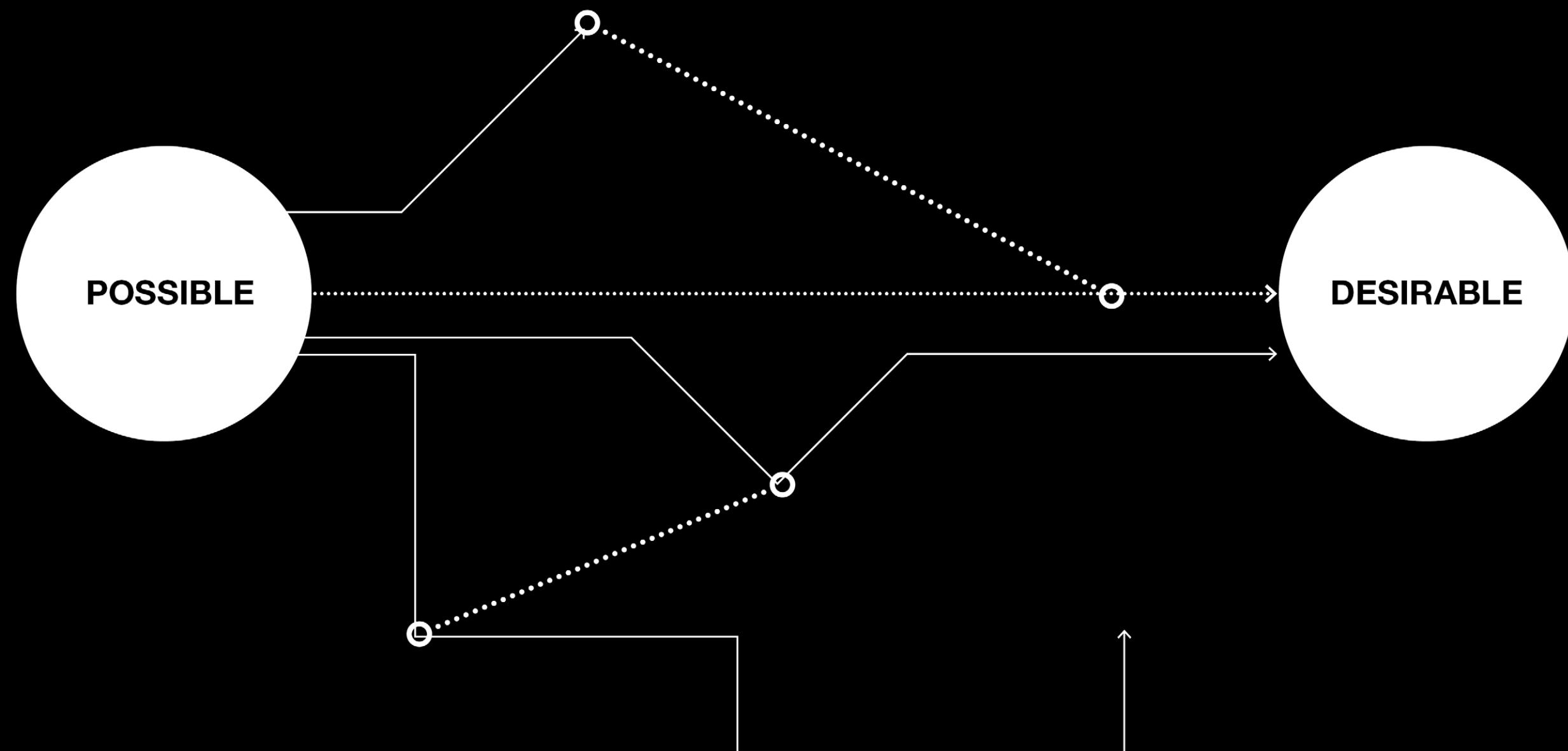


What If?









Design Local Level

Adaptive Pathways



Micro Action and Local Capacities



One Spatial Action to Start

Design Local Level

Adaptive Pathways

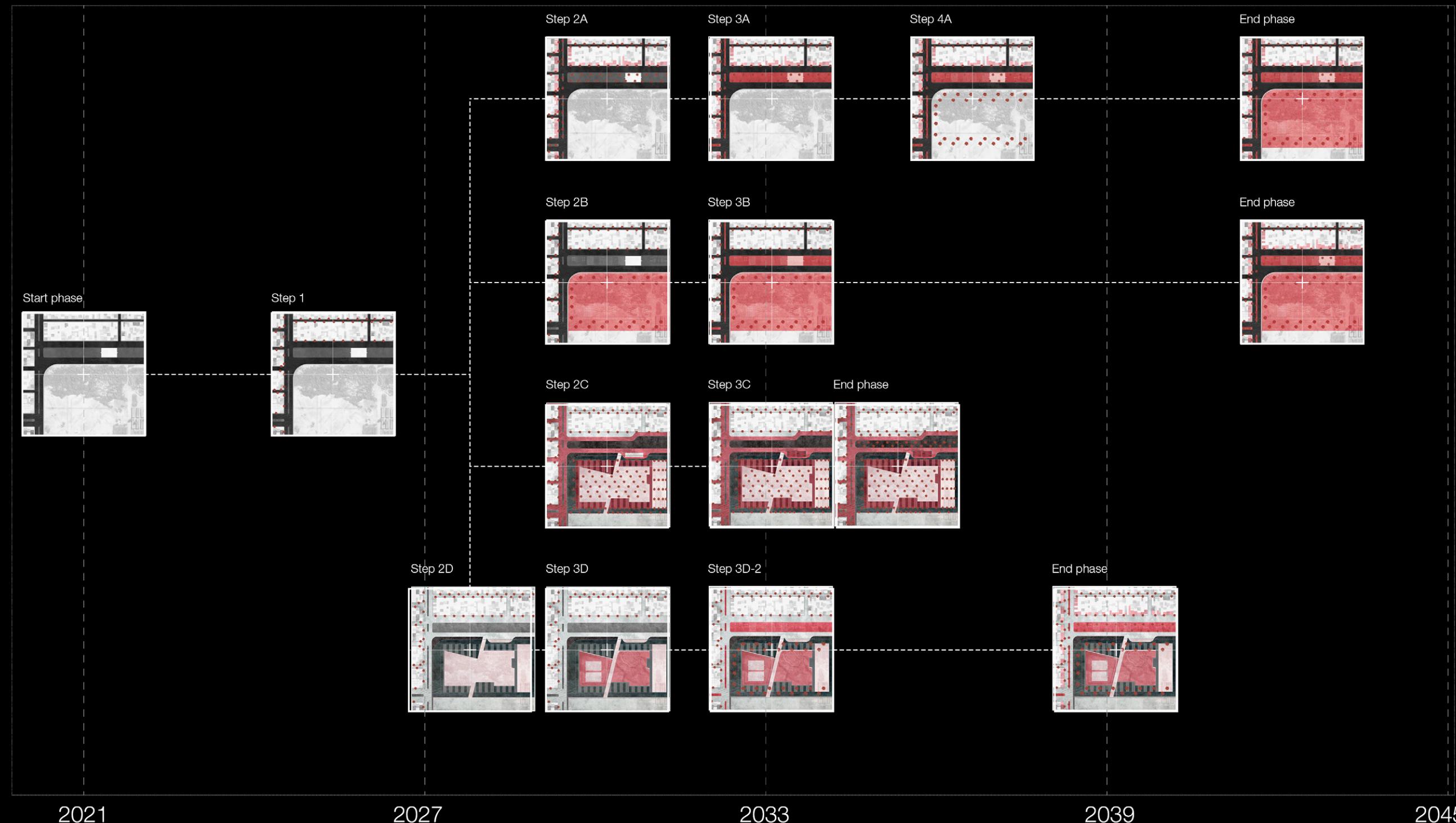


Design Local Level

Adaptive Pathways

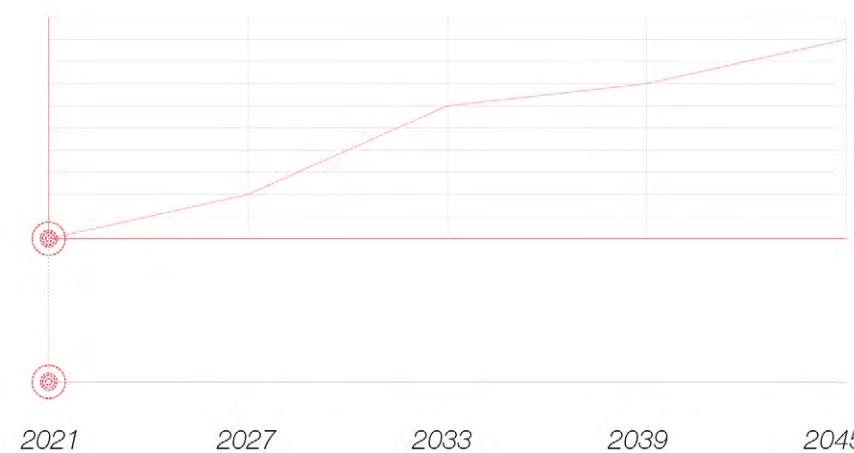
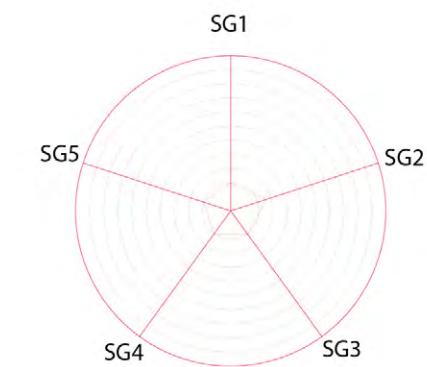
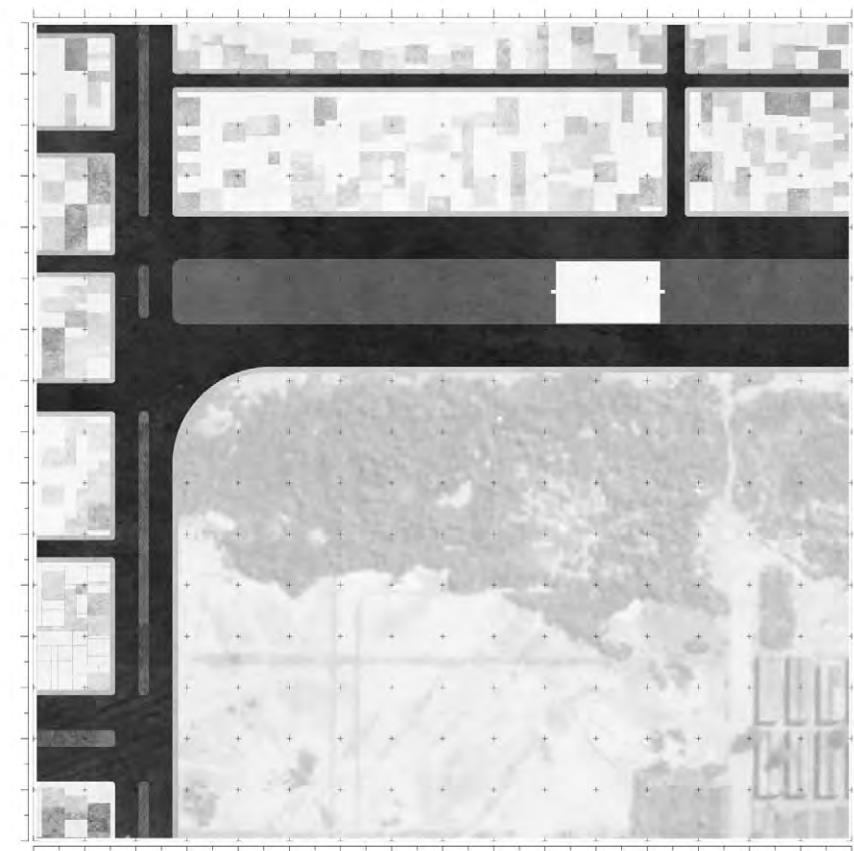


Adaptive Pathways



Design Local Level

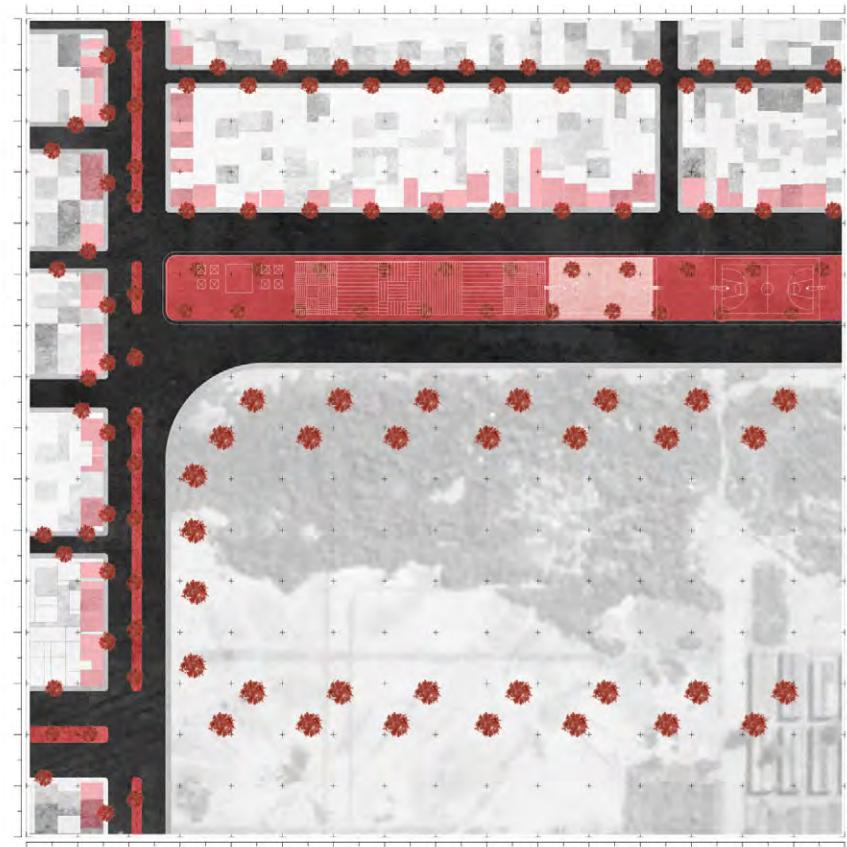
Adaptive Pathways



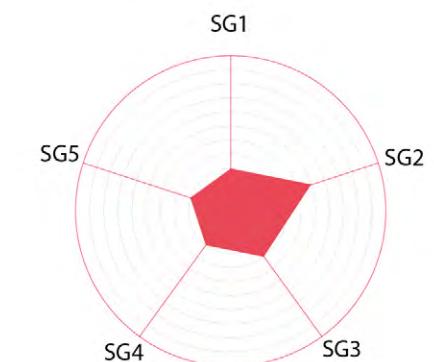
Design Local Level

Adaptive Pathways

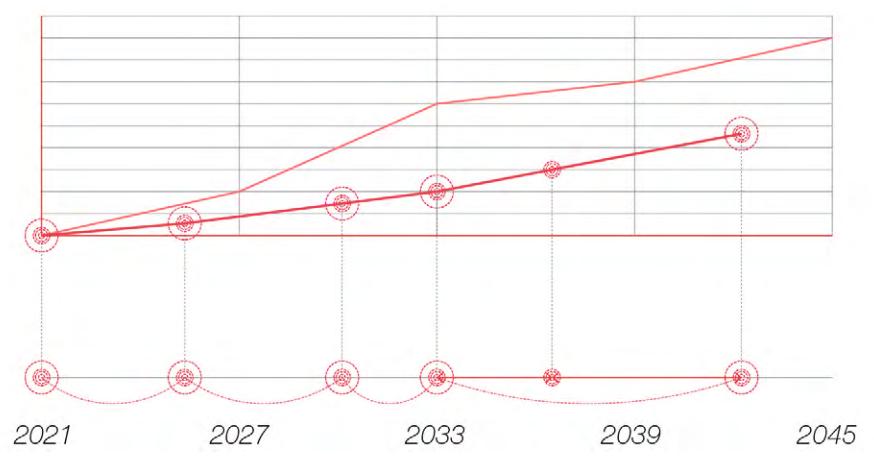
AP - 1



Systemic Goals



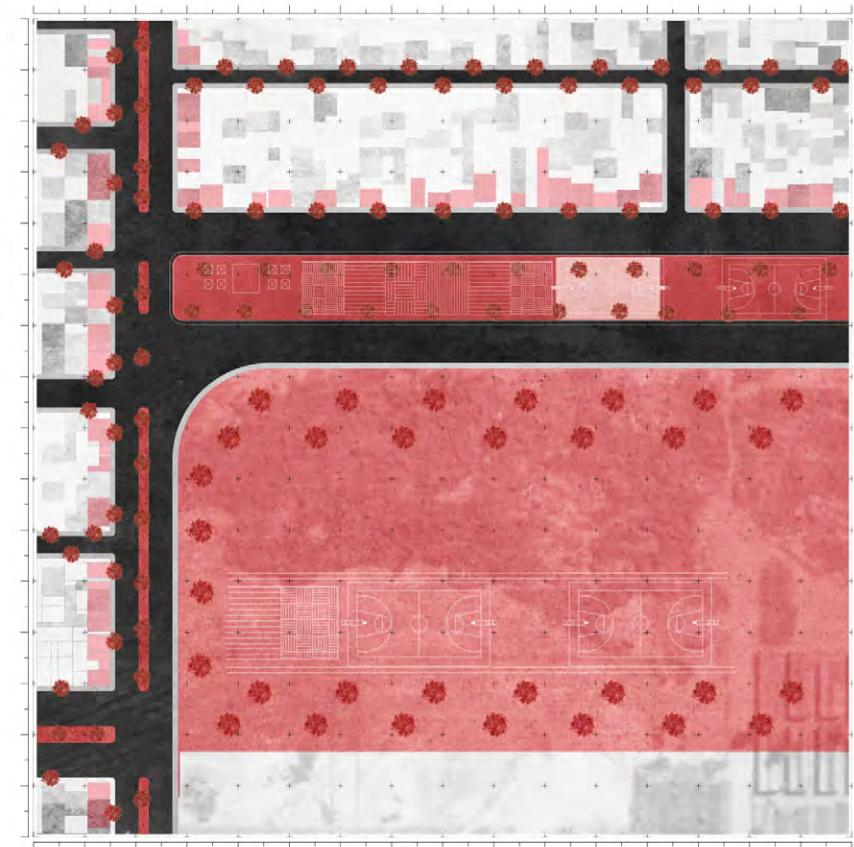
SG2 Performance



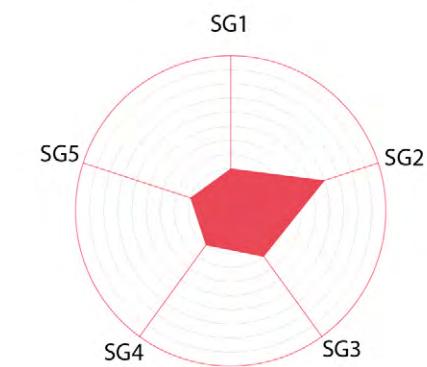
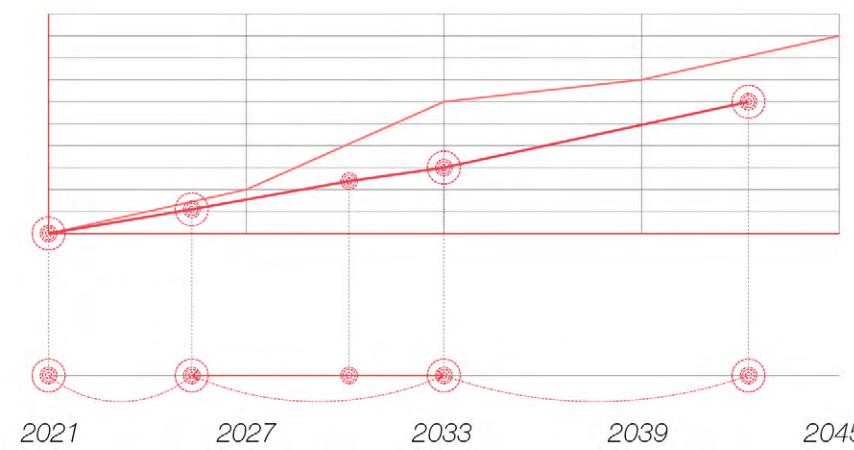
Design Local Level

Adaptive Pathways

AP - 2

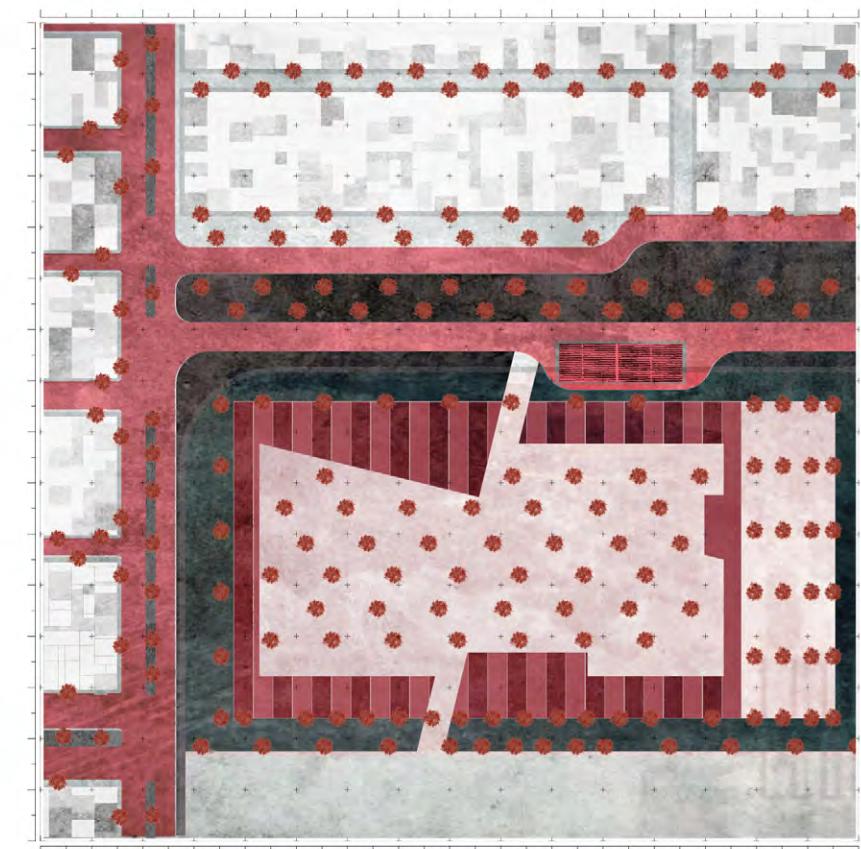


Transformation

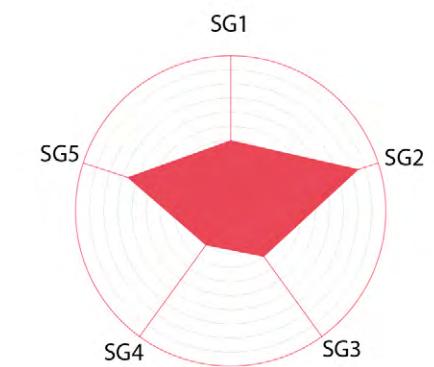
Systemic
GoalsSG2
Performance

Design Local Level

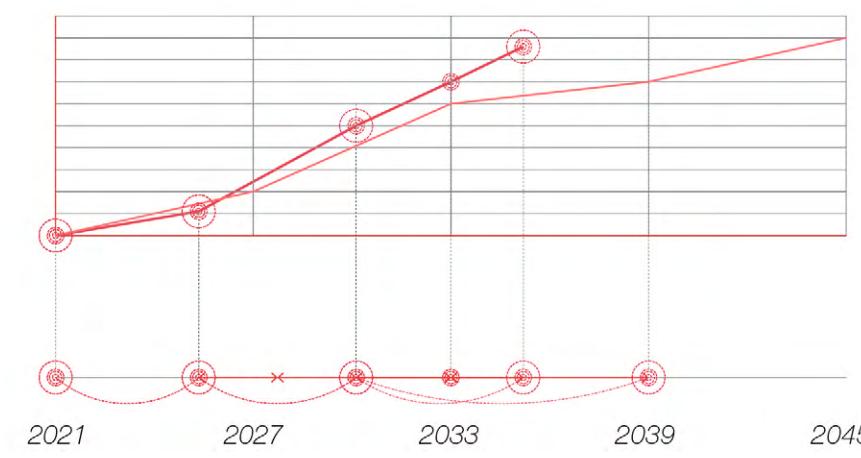
Adaptive Pathways



Systemic Goals

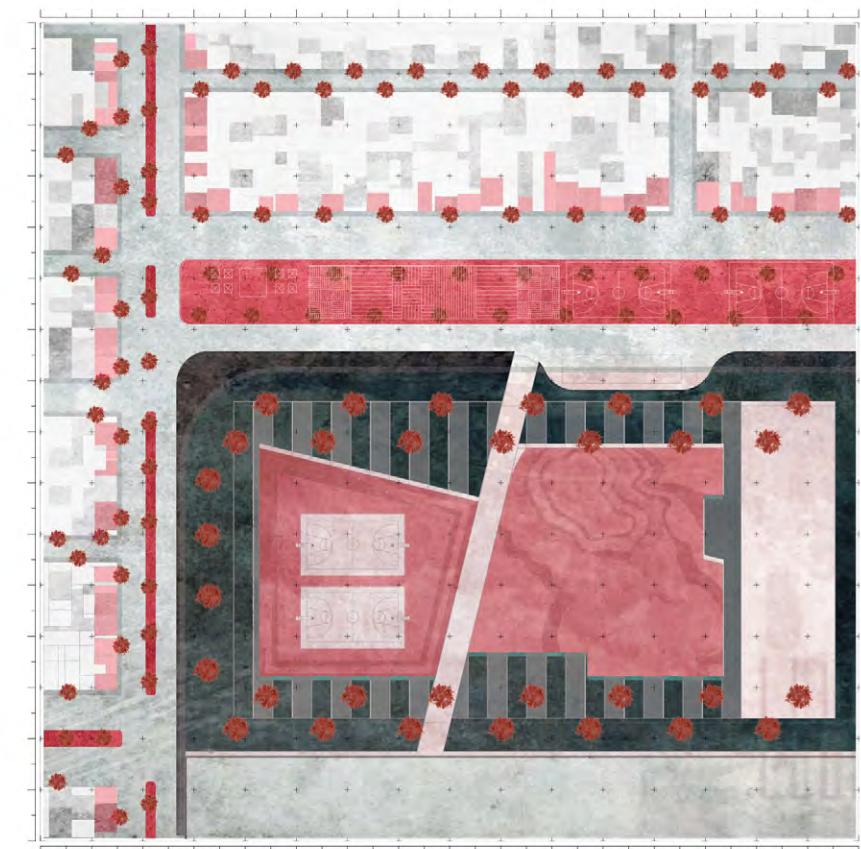


SG2 Performance

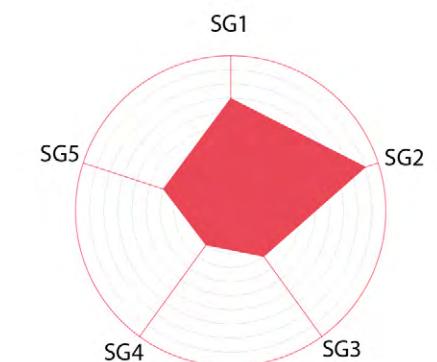


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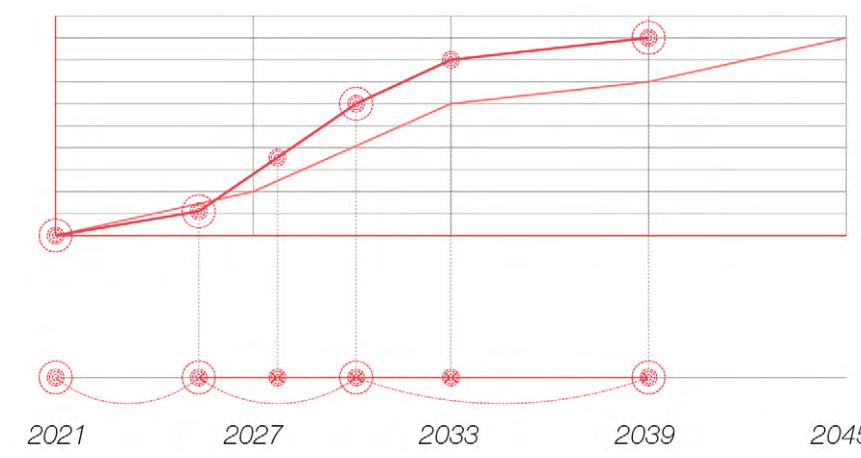
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Systemic Goals



SG2 Performance





Conclusions

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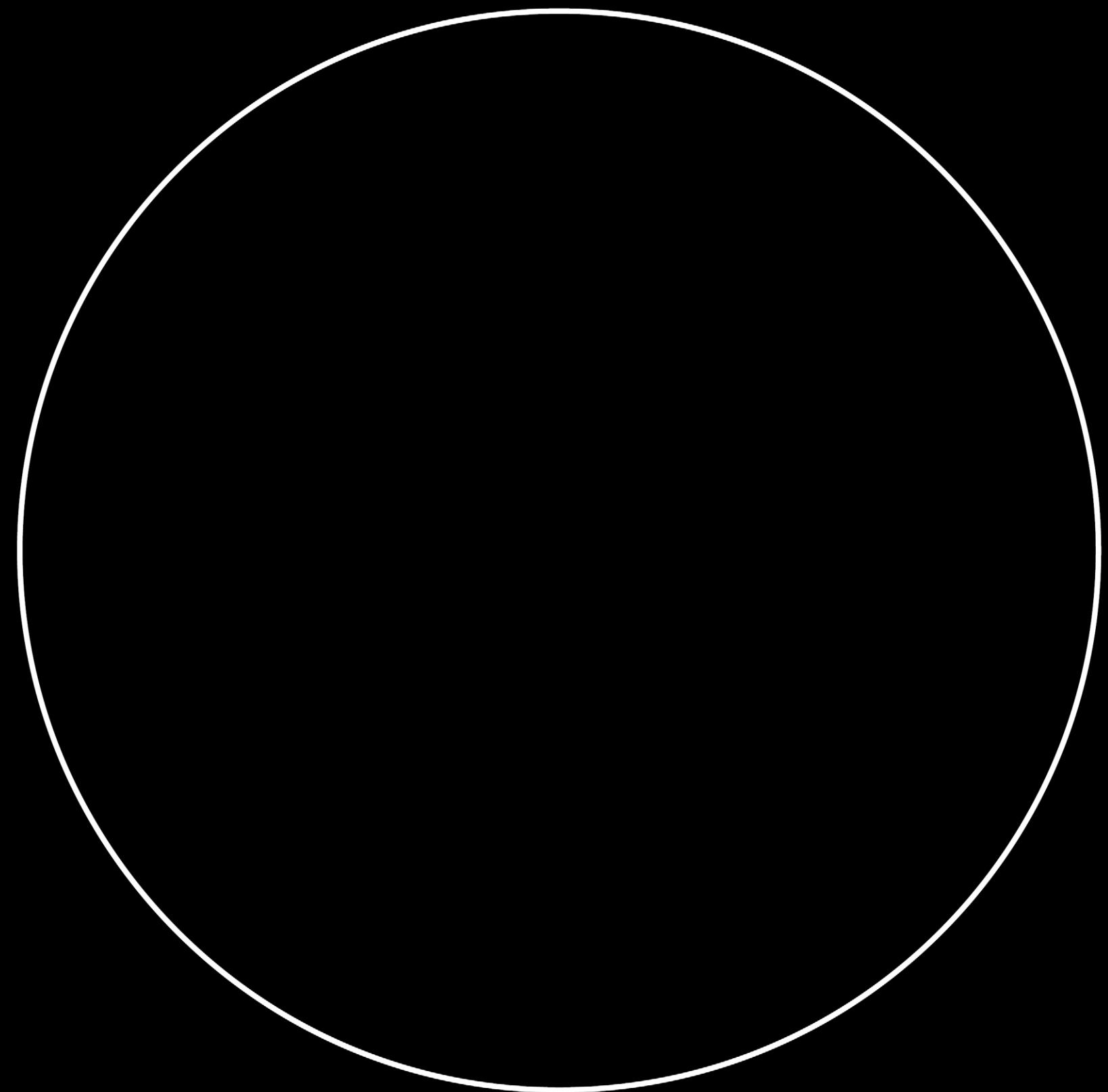
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- **Spatial cohesion = interests + actors + strategic planning + endogenous capacities + local development**



RAMM



