



# ASYMMETRIES

Raul Martinez

# OF

Spatial Actions and Strategies  
Booklet

# POWER



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P5 Thesis Report

Spatial Actions and Strategies Booklet

Delft University of Technology  
Faculty of Architecture and Built Environment  
MSc Architecture, Urbanism and Building Sciences  
MSc track Urbanism  
Complex Cities Studio

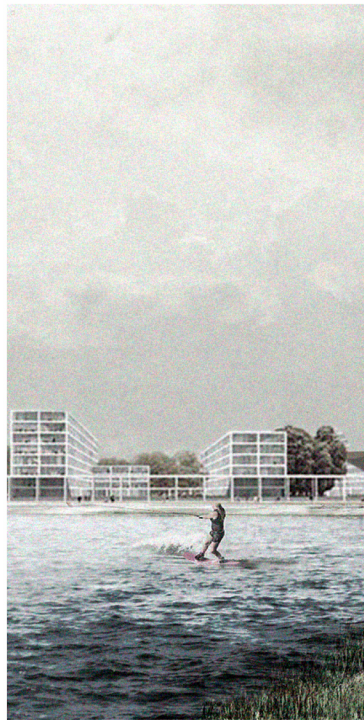
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## Main principles (systemic goals)

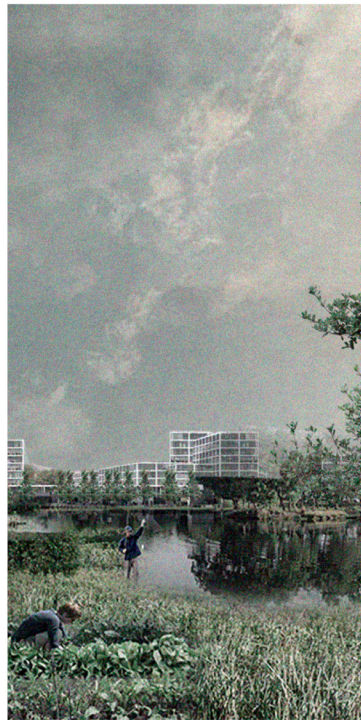
For a coherent transformation and adaptation the socio-ecological dimension was included in the framework as being essential part of the complex nature of the thesis. The combination of governance, formal and functional structures in the urban fabric with socio-ecological systems allowed the formulation of 5 systemic goals that through connectedness and potentials determine spatial strategies (actions), first at the local level with the capacity to influence a cross border activation. These 5 main principles stress different dimensions of actors, scales and time, thus their capacity for transformation is directly dependent of how those factors generate synergies between them so to increase, accelerate or stagnate adaptation.

During the last chapter of the report, 'adaptive change' was mostly affected by the interests at stake. Different Interest levels regarding the specific goals (main principles) increased at the local level, thus attracting from a bottom-up perspective higher levels of power, until pairing their interests towards an effective adaptive transformation. However since interests are directly proportional to the transformation capacities without them change will not be possible.

Water Landscape Integration and Management



Green Infrastructure System and Quality of Public and Open Space



Densification of the Built System



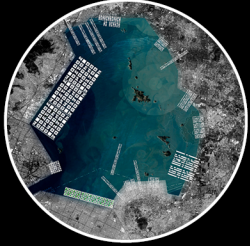
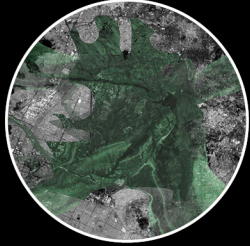
Productive Landscapes and Means of Production



Transport and Mobility System



IMG. 5.13 (Own elaboration) The image shows the 5 systemic goals.

		
<b>SYNTHETIC DESCRIPTION OF THE SYSTEMIC GOAL</b>	WATER LANDSCAPE INTEGRATION AND MANAGEMENT	GREEN INFRASTRUCTURE SYSTEM AND QUALITY OF PUBLIC AND OPEN SPACE
<b>Main strategy description</b>	Ensure a high level of water landscape integration in the area, enhancing current management infrastructure and integrating new measures for risk vulnerabilities.	Ensure a high quality of open and public space in the area, generating new places for intermunicipal connection and recreation.
<b>Main objective description</b>	<ol style="list-style-type: none"> <li>1. Ensure hydrogeological safety and reduce vulnerability against flood risk.</li> <li>2. Integrating the water structure to the public space and Decentralizing its management, ensuring the water quality, local purification, accumulation and reuse.</li> <li>3. Maximize the sponge qualities by slowing the water down (delay) and creating more open water bodies.</li> </ol>	<ol style="list-style-type: none"> <li>1. Renaturalising the urban fabric and strengthen biodiversity of the areas, contributing to the realization of ecological networks.</li> <li>2. Updating facilities and public services for community activities.</li> <li>3. Creating a network of public spaces ensuring the quality and integrating them to the landscape.</li> </ol>

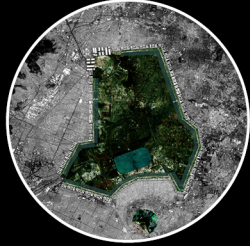
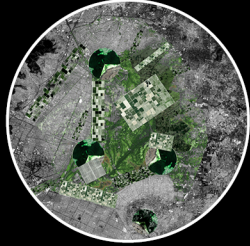
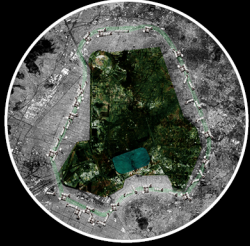
		
DENSIFICATION OF THE BUILT SYSTEM	PRODUCTIVE LANDSCAPES AND MEANS OF PRODUCTION	TRANSPORT AND MOBILITY SYSTEM
Ensure a high diversity by promoting multifunctional areas where living and working coexist, defining new programmatic elements that respond and support local practices.	Explore new ways of production promoting a sustainable adaptation with the landscape, promoting endogenous development.	Integrate infrastructure, mobility and landscape for accessibility and sustainability.
<ol style="list-style-type: none"> <li>1. Updating and reprogramming monofunctional buildings to multifunctional mix buildings.</li> <li>2. Urban infill, densify the existing urban fabric.</li> <li>3. Urban infill and new housing.</li> </ol>	<ol style="list-style-type: none"> <li>1. Recovering agricultural uses.</li> <li>2. Exploring new productive approaches in the different landscapes in the area.</li> <li>3. Ensure the profitability, and competitiveness of the area by the transformation the local business structure.</li> </ol>	<ol style="list-style-type: none"> <li>1. Optimize the area accessibility in relation to main roads, reducing the outside traffic pressures guaranteeing connectivity.</li> <li>2. Optimize the internal roadside area, rationalizing traffic and parking spaces.</li> <li>3. Ensure the sustainable mobility of people and goods, maximizing safety.</li> </ol>

FIG. 8.19 Main objectives (Own elaboration), the figure shows the specific objectives per systemic goal.

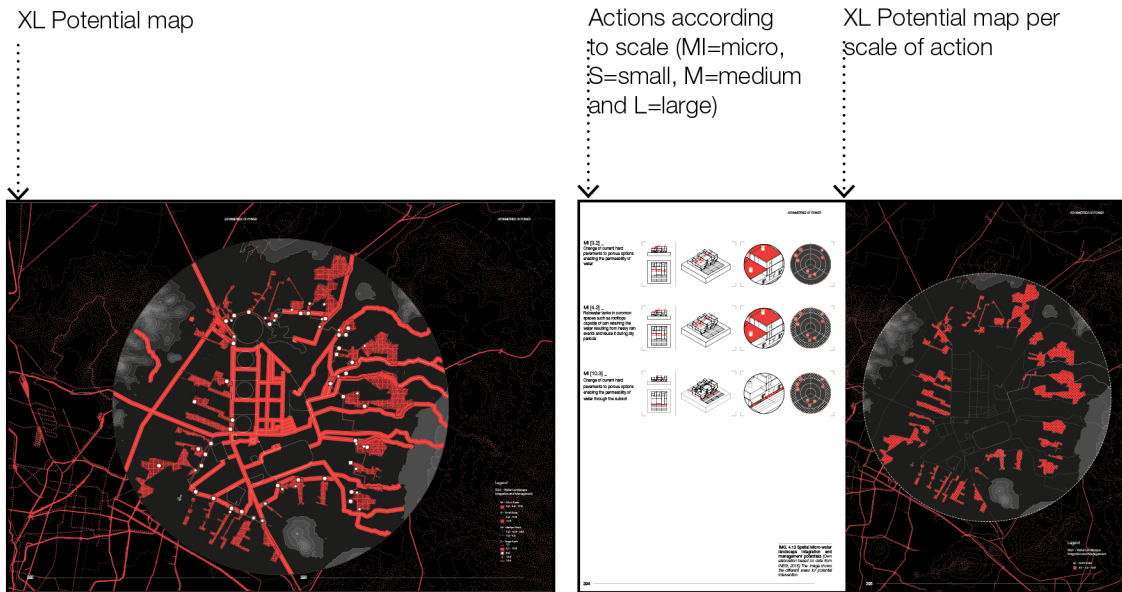
Application matrix of the guidelines is developed for the different systemic goals according to different degrees of application priority such as scale (micro, small, medium and large actions) and levels of participation regarding the actors involved (from local to intermunicipal power levels).

SYSTEMIC GOALS		Water landscape integration and management			Green infrastructure system and quality of public and open space			Densification of the built system			Productive landscapes and means of production			Transport and mobility system		
		1 Ensure hydrogeological safety	2 Integrating the water structure to the public space	3 Maximize the sponge qualities	1 Renaturalising the urban fabric	2 Updating facilities and public services	3 Creating a network of public spaces	1 Updating monofunctional buildings	2 Urban infill densify the existing urban fabric	3 New housing	1 Recovering agricultural uses	2 New productive approaches in the different landscapes	3 Transformation the local business structure	1 Optimize the area accessibility in relation to main roads	2 Optimize the internal roadside area	3 Ensure the sustainable mobility of people
SCALE OF SPATIAL ACTION	MICRO [MI]	—	W-MI [3.2] W-MI [4.2]	W-MI [10.3]	G-MI [17.1] G-MI [18.1]	—	G-MI [26.3]	—	—	—	—	P-MI [42.2]	—	—	—	—
	SMALL [S]	—	W-S [5.2]	W-S [11.3]	G-S [19.1]	G-S [23.2]	—	—	D-S [33.2]	—	P-S [39.1]	P-S [43.2]	P-S [47.3]	—	T-S [52.2]	T-S [56.3]
	MEDIUM [M]	—	W-M [6.2] W-M [7.2] W-M [8.2]	W-M [12.3] W-M [13.3]	G-M [20.1]	G-M [24.2]	G-M [27.3] G-M [28.3]	D-M [31.1]	D-M [34.2]	D-M [36.3]	P-M [40.1]	P-M [44.2]	P-M [48.3]	T-M [50.1]	T-M [53.2]	T-M [57.3]
	LARGE [L]	W-L [1.1] W-L [2.1]	W-L [9.2]	W-L [14.3] W-L [15.3] W-L [16.3]	G-L [21.1] G-L [22.1]	G-L [25.2]	G-L [29.3] G-L [30.3]	D-L [32.1]	D-L [35.2]	D-L [37.3] D-L [38.3]	P-L [41.1]	P-L [45.2] P-L [46.2]	P-L [49.3]	T-L [51.1]	T-L [54.2] T-L [55.2]	T-L [58.3] T-L [59.3] T-L [60.3]

FIG. 8.20 Matrix for application (Own elaboration), the figure shows the specific spatial actions taken by each of the specific objectives per systemic goal

## Instructions

The following drawings function as a guide for the appropriate readability of the following pages.



The map shows the overall potentials of the systemic goal analyzed located along the gates

This pages emphasize on the actions of the specific systemic goal according to scale, depicting their potential locations in the gates

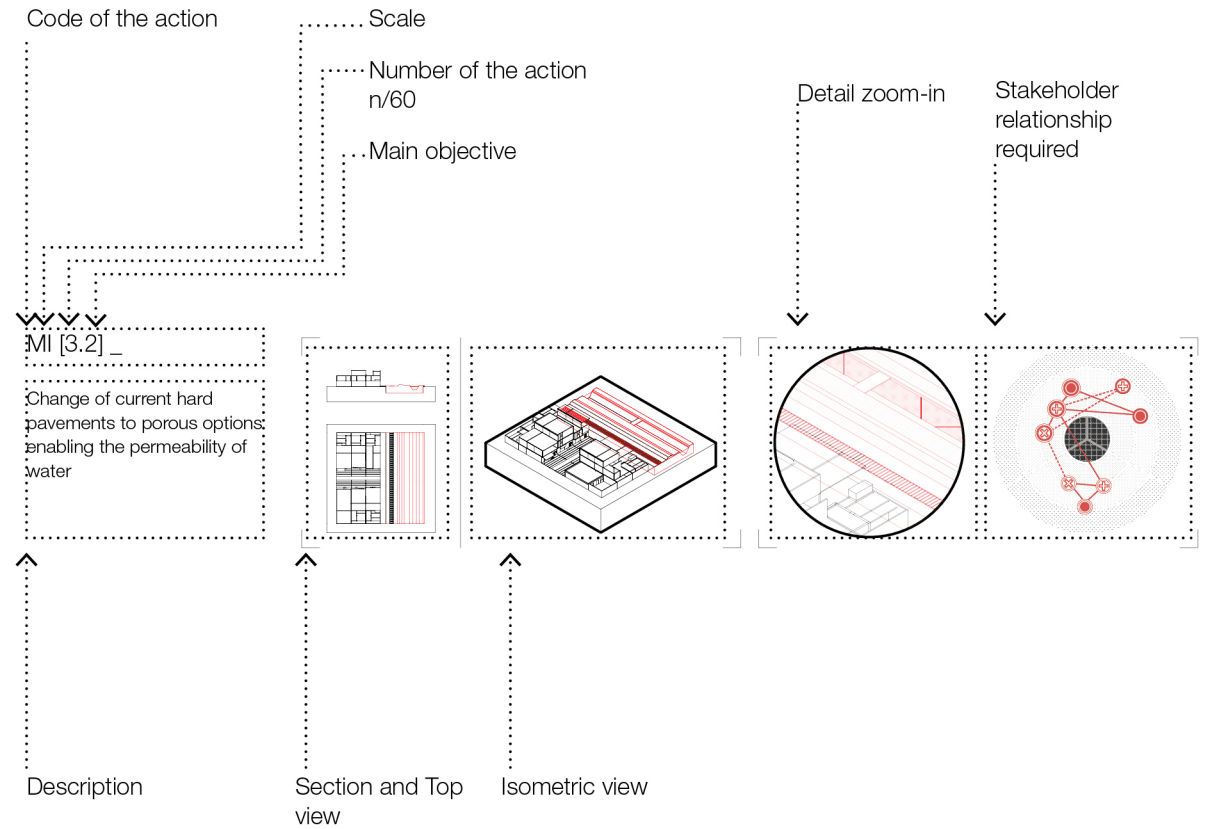


FIG. 8.25 Instructions for readability of potentials and actions (Own elaboration).

# Potentials and Actions SG1 - Water Landscape Integration and Management

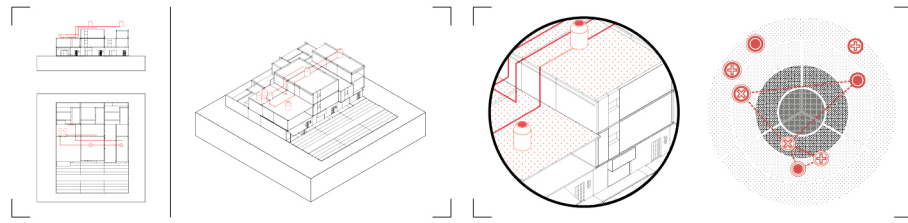


- Legend
- SG1 - Water Landscape Integration and Management
- Mi - Micro Scale  
3:2 - 4:2 - 10:3
  - S - Small Scale  
5:2 - 11:3  
11:3
  - M - Medium Scale  
6:2 - 12:3 - 13:3  
7:2 - 8:2
  - L - Large Scale  
1:1  
2:1 - 16:3  
9:2  
14:3  
15:3

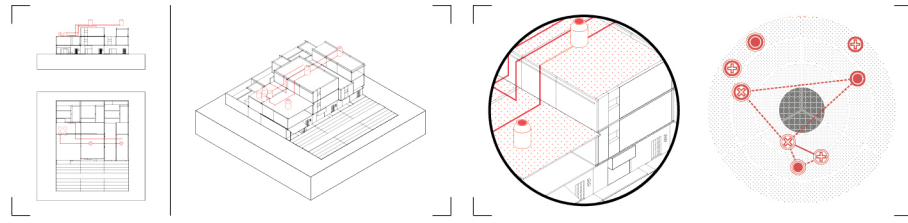


FIG. 8.26 XL Potentials Water Landscape Integration and Management (Own elaboration)

MI [3.2] \_  
Change of current hard pavements to porous options enabling the permeability of water



MI [4.2] \_  
Rainwater tanks in common spaces such as rooftops capable of retaining the water resulting from heavy rain events and reuse it during dry periods



MI [10.3] \_  
Change of current hard pavements to porous options enabling the permeability of water through the subsoil

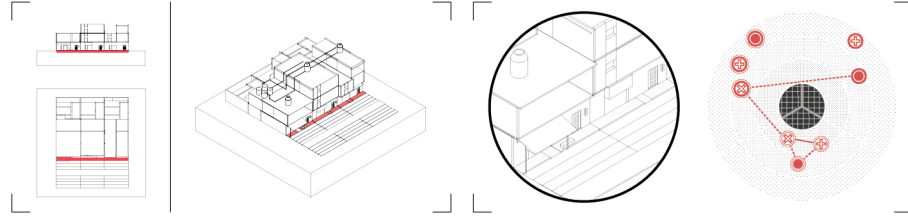


FIG. 8.27 left, 8.28 right, (Own elaboration) The figures show the potentials areas where the actions are to be implemented and the catalogue of actions at the micro scale respectively.

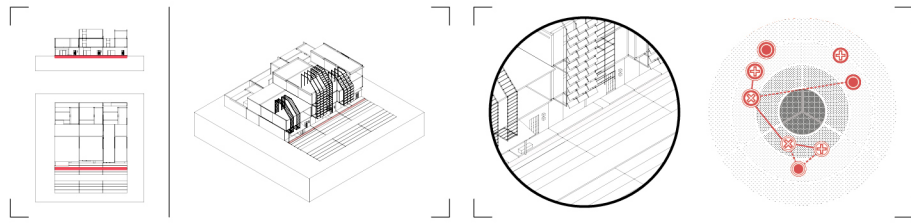


Legend  
SG1 - Water Landscape  
Integration and Management  
Mi - Micro Scale  
3.2 - 4.2 - 10.3

0 km 2 4 6 12



S [5.2] \_  
Infiltration strips enabling the permeability of water through the subsoil



S [11.3] \_  
Retention and infiltration ponds

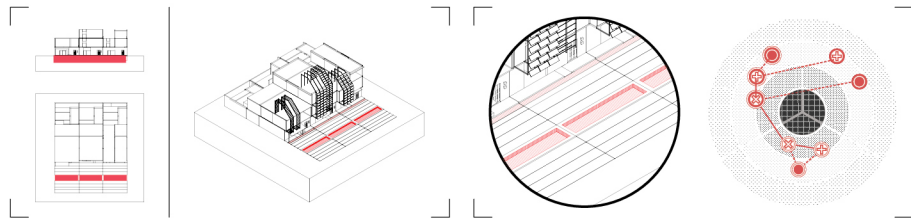
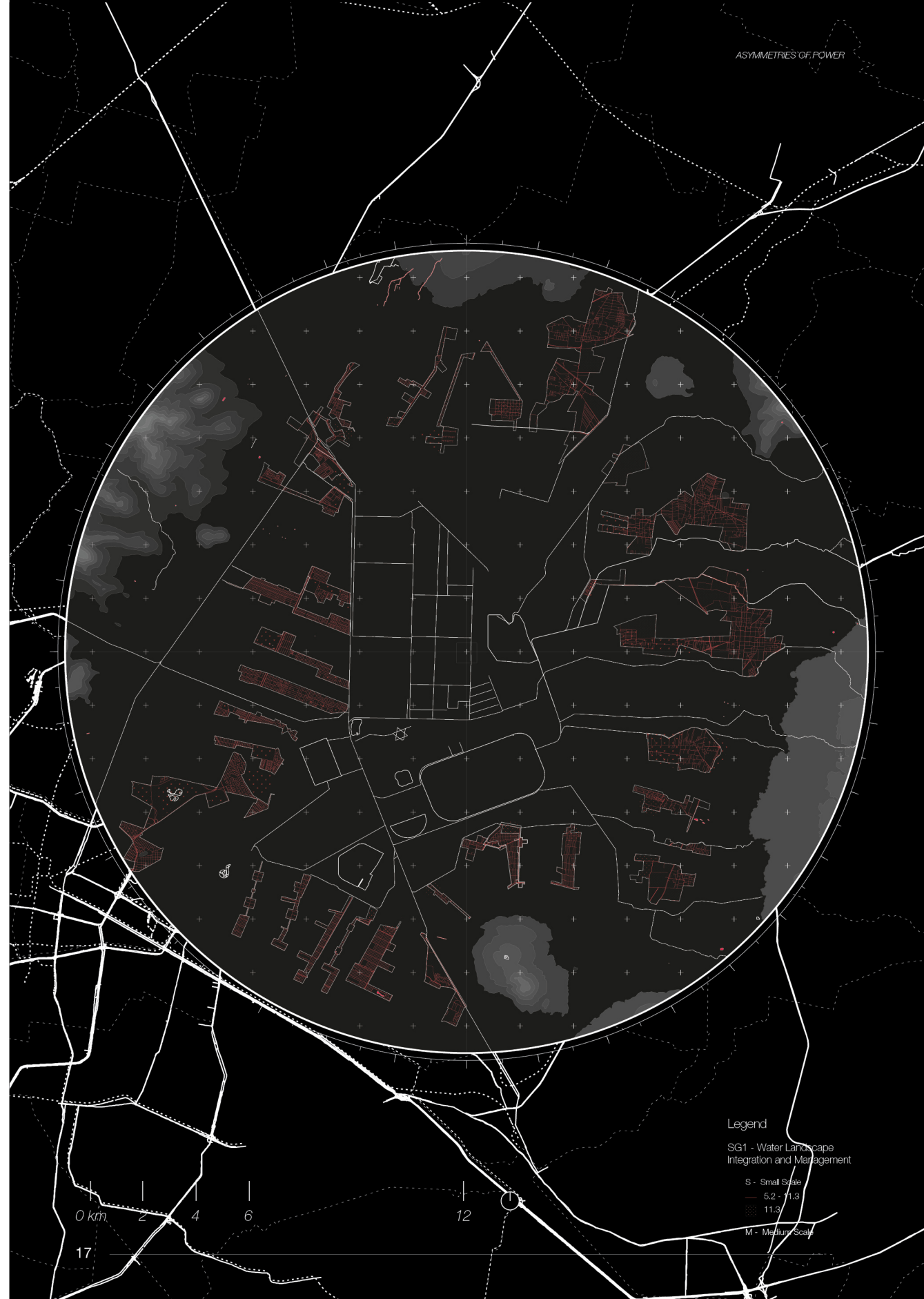
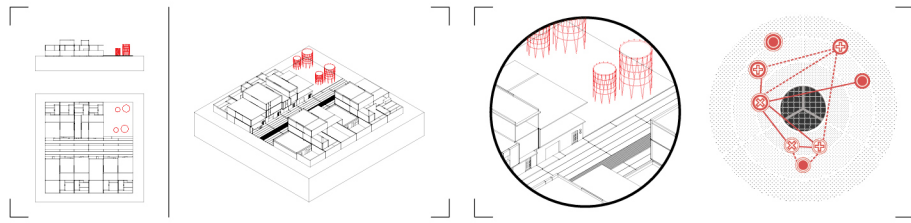


FIG. 8.29 left, 8.30 right, (Own elaboration) The figures show the potentials areas where the actions are to be implemented and the catalogue of actions at the small scale respectively.

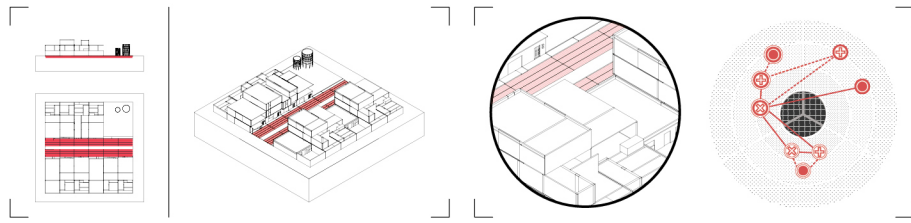


Legend  
 SG1 - Water Landscape Integration and Management  
 S - Small Scale  
 5.2 - 11.3  
 11.3  
 M - Medium Scale

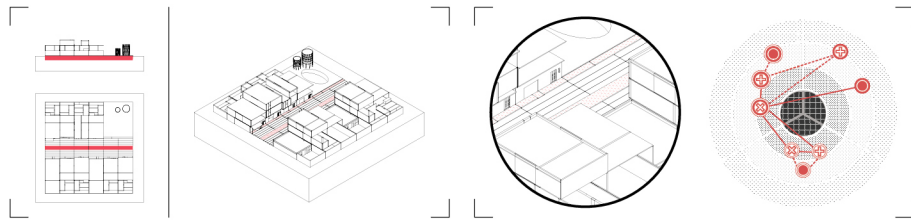
M [6.2] \_  
Storage tanks, construction of underground storage tanks will be required in order to provide enough water



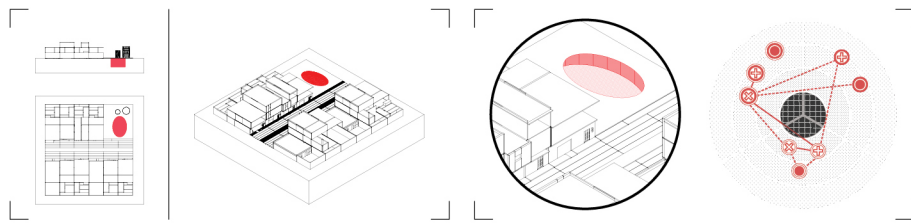
M [7.2] \_  
Water streets as floodable infrastructure



M [8.2] \_  
Building of street side canals, retaining water and enabling its natural infiltration to the subsoil



M [12.3] \_  
Retention ponds of medium scale used as public spaces that can retain the water resulting from heavy rain events and reuse it during dry periods



M [13.3] \_  
Reduction of paved areas

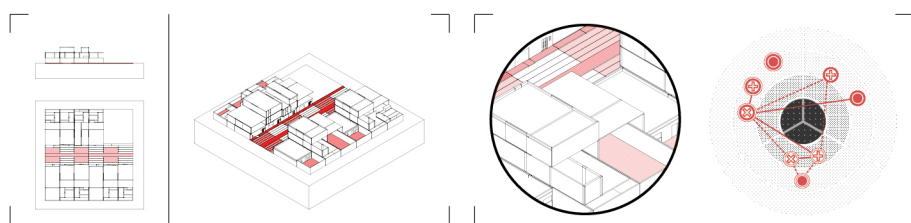
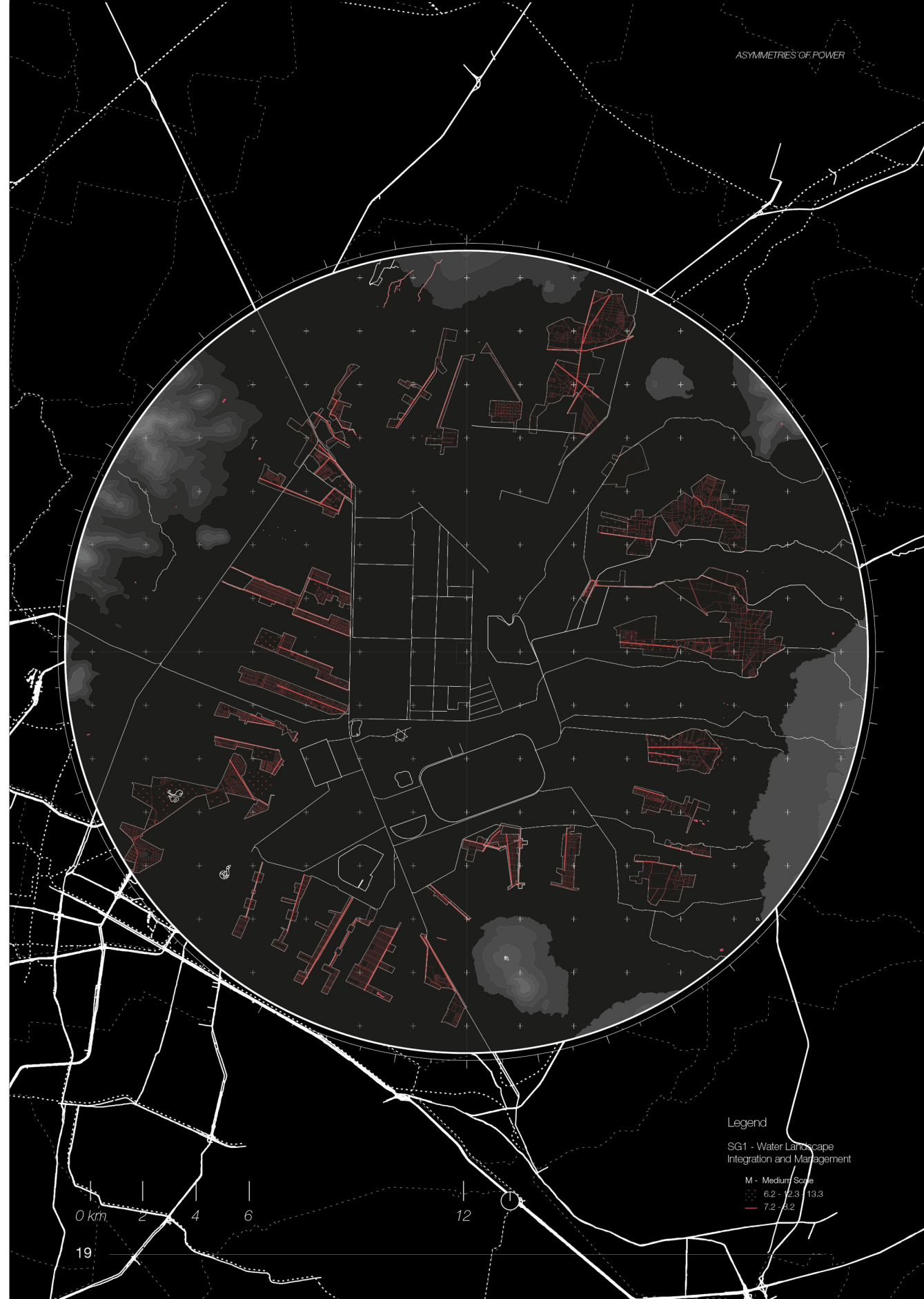


FIG. 8.31 left, 8.32 right, (Own elaboration) The figures show the potentials areas where the actions are to be implemented and the catalogue of actions at the medium scale respectively.



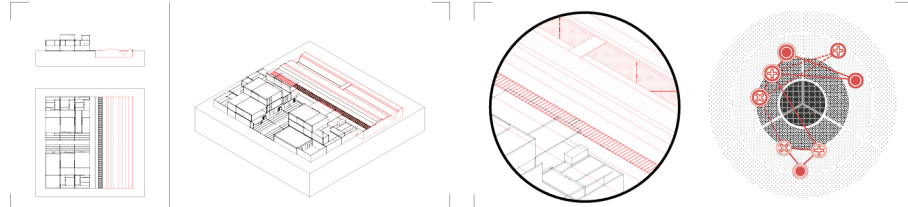
Legend  
SG1 - Water Landscape  
Integration and Management

M - Medium Scale

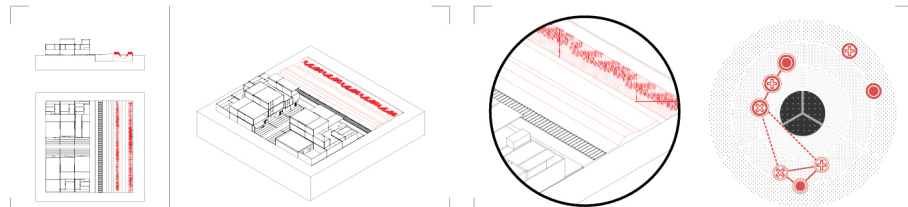
6.2 - 7.2 13.3

7.2 - 8.2

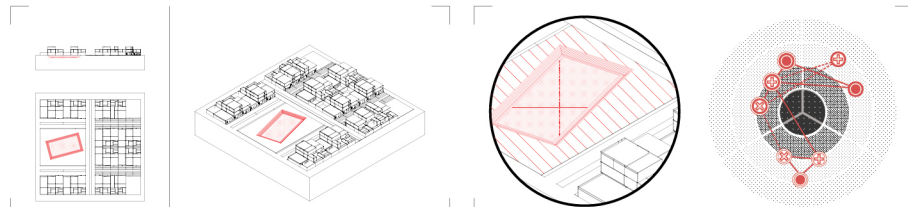
L [1.1] \_  
Creating new defenses against flooding, retaining water during heavy rain seasons



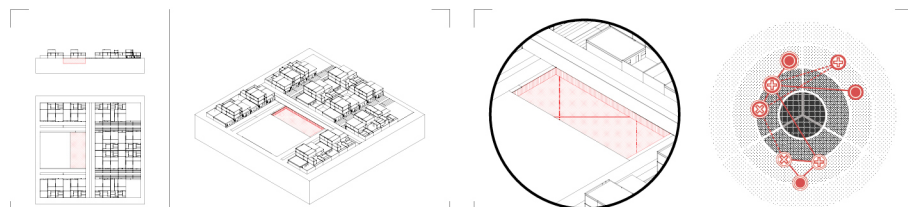
L [2.1] \_  
Avoid taking surface water and modification of drainage flows and water disposal, filling of ditches or canals, and realizing its re-naturalization with buffer bands that could act as natural filters.



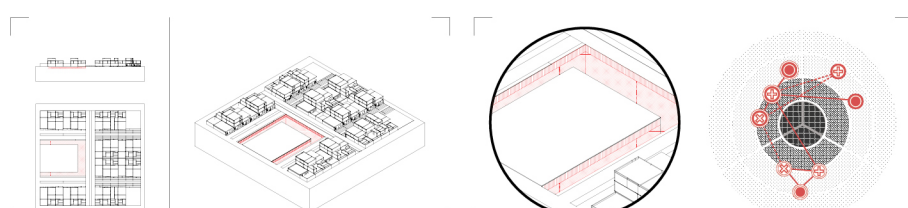
L [9.2] \_  
Water plazas/square. The water square combines water storage with the improvement of the quality of urban public space. Water storage facilities are visible and enjoyable and creates opportunities to create environmental quality.



L [14.3] \_  
Retention and infiltration ponds to capture the water in times of heavy rainfall and then reuse it during the dry periods



L [15.3] \_  
Expand the canals surface in order to maximize seasonal storage and increasing the amount of hectares under conservation soil status



L [16.3] \_  
Renaturalisation of waterfronts supported by natural purification and infiltration areas

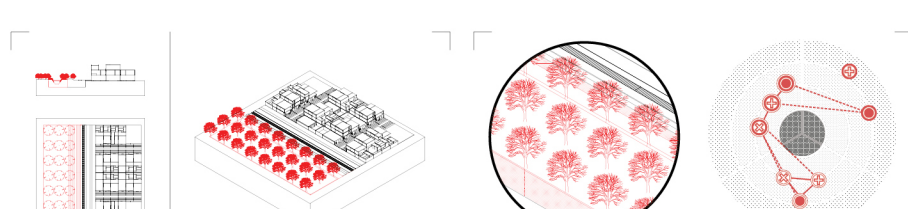
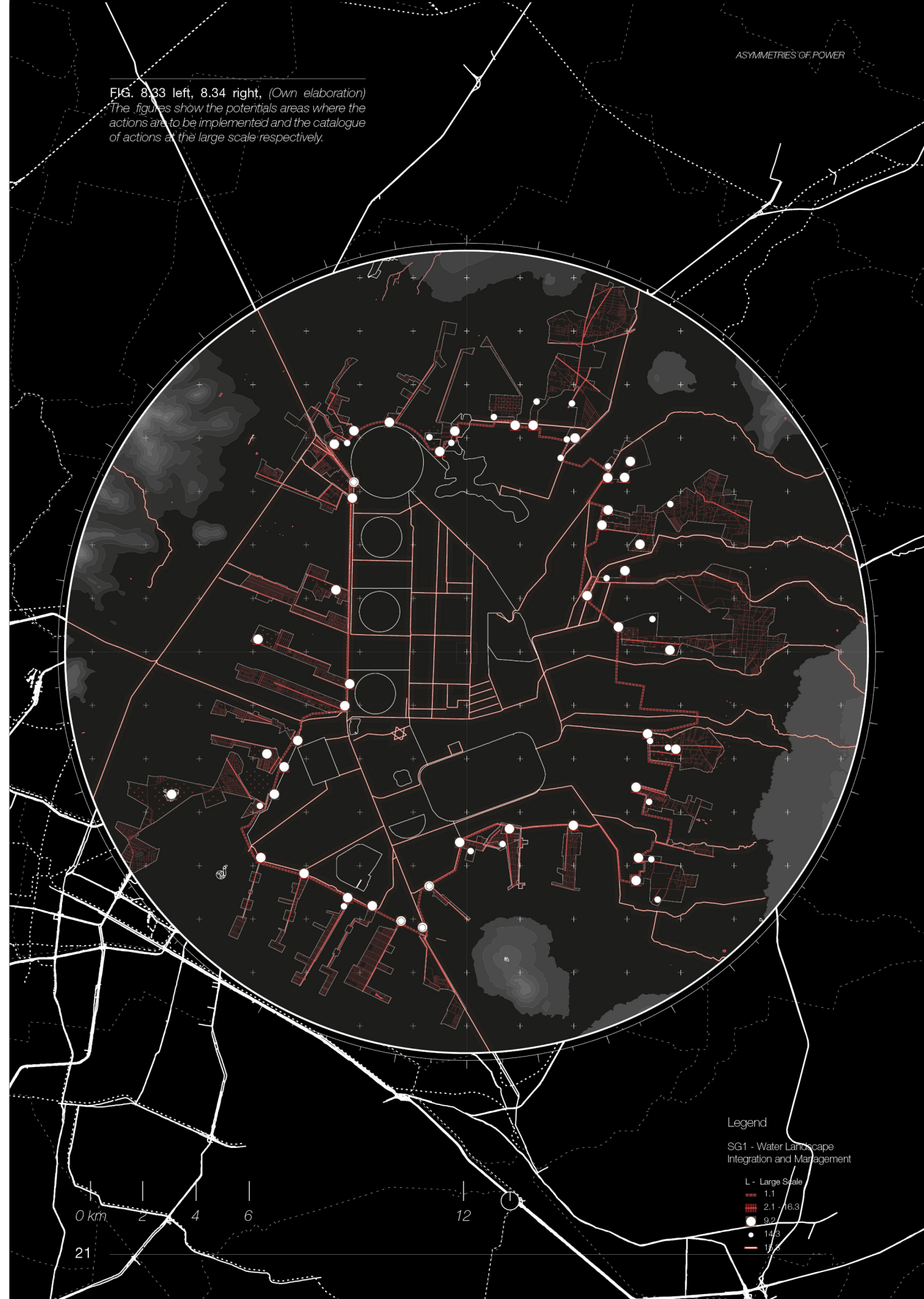


FIG. 8.33 left, 8.34 right, (Own elaboration)  
The figures show the potentials areas where the actions are to be implemented and the catalogue of actions at the large scale respectively.

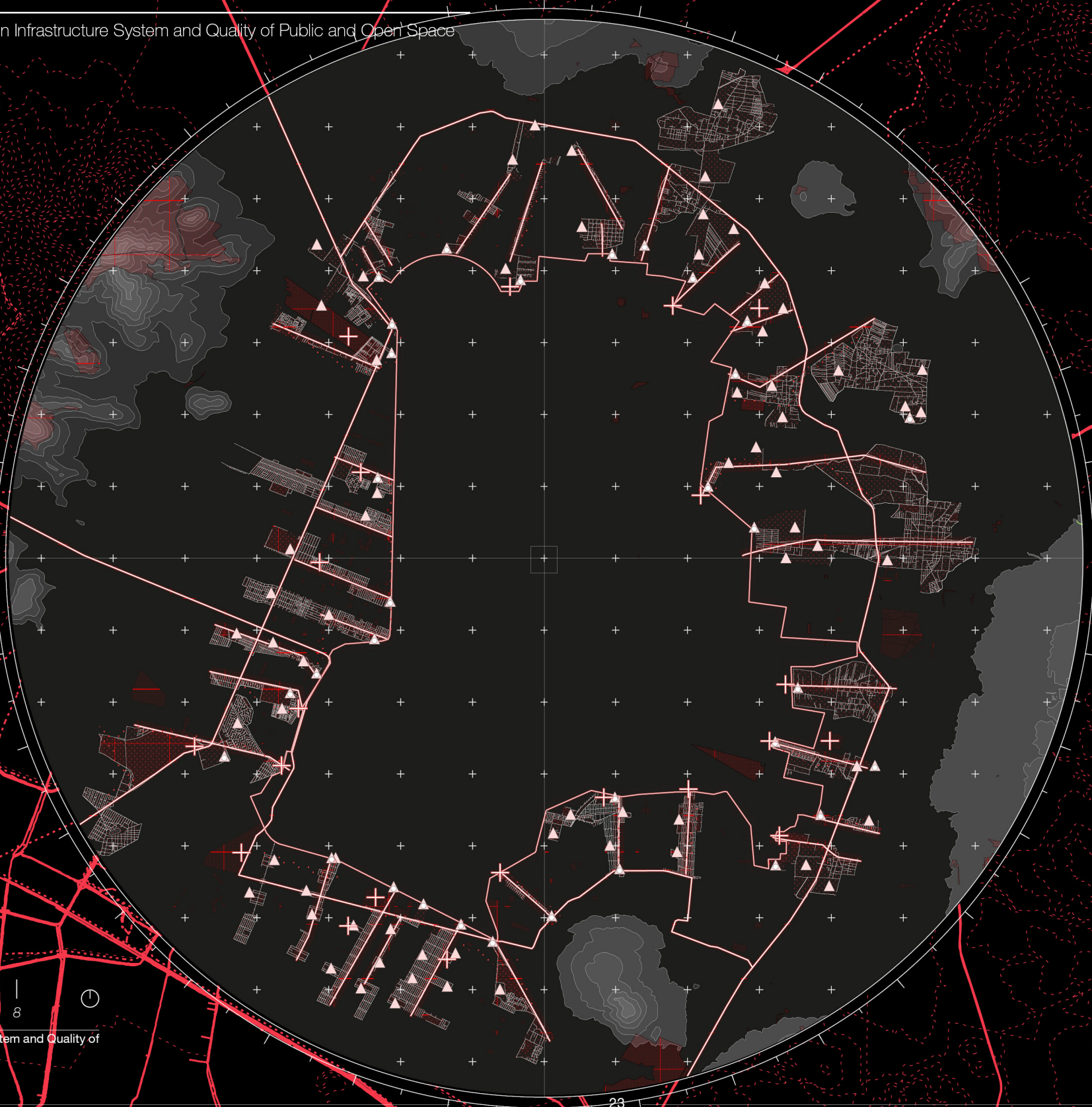


Legend  
SG1 - Water Landscape Integration and Management

- L - Large Scale
- 1.1
- 2.1 - 16.3
- 9.2
- 14.3
- 15.3
- 16.3

0 km 2 4 6 12

Potentials and Actions SG2 - Green Infrastructure System and Quality of Public and Open Space

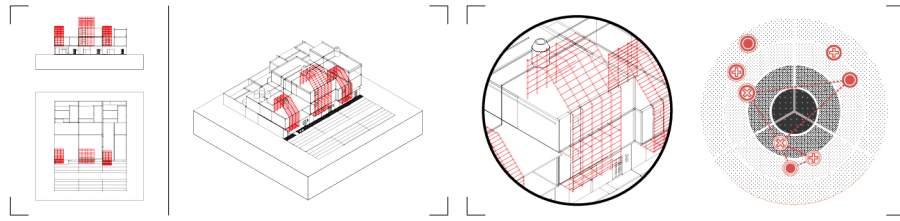


- Legend
- SG2 - Green Infrastructure System and Quality of Public and Open Space
- Mi - Micro Scale
    - 17.1 - 18.1 - 26.8
  - S - Small Scale
    - 19.1 - 23.2
  - M - Medium Scale
    - 24.2
    - 20.1
    - 27.3
    - 28.3
  - L - Large Scale
    - 21.1
    - 22.1 - 33.3
    - 25.2
    - 29.3

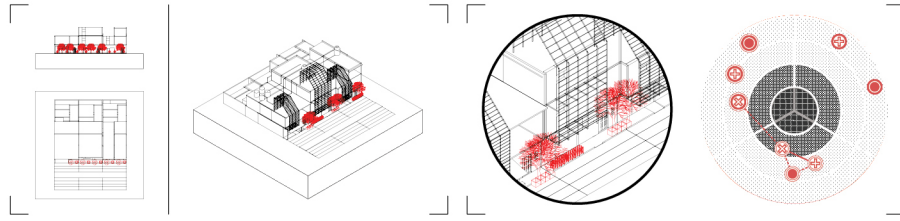


FIG. 8.35 XL Potentials Green Infrastructure System and Quality of Public and Open Space (Own elaboration)

MI [17.1] \_  
Foster the increase of green natural elements by using the facades of the current housing typologies, integrating them primarily by using native species or through the use of climbing plants



MI [18.1] \_  
Increase the micro green pedestrian network by giving incentives to local communities or facilitating the acquisition of native plants that are suitable with climate conditions



MI [26.3] \_  
Benches as a micro public space network giving incentives to local communities or facilitating a process through which they can self-built in an organized way

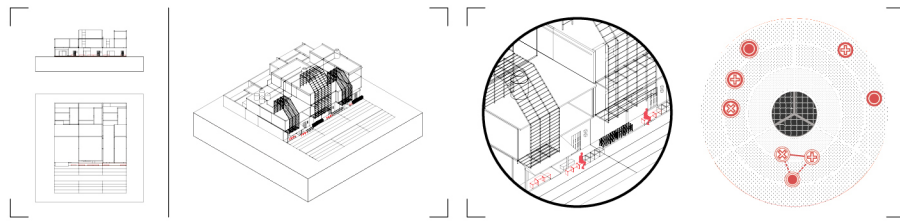
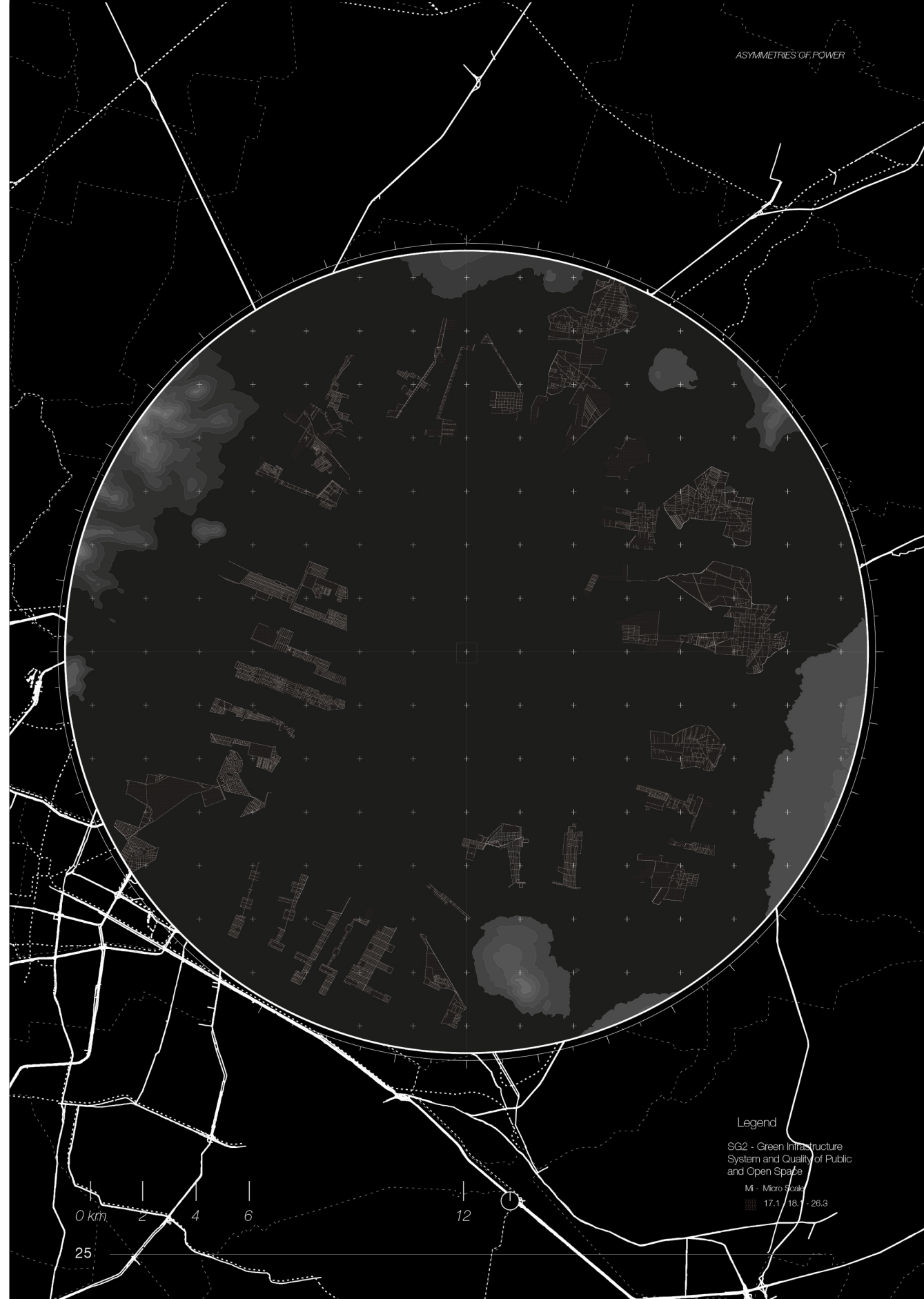
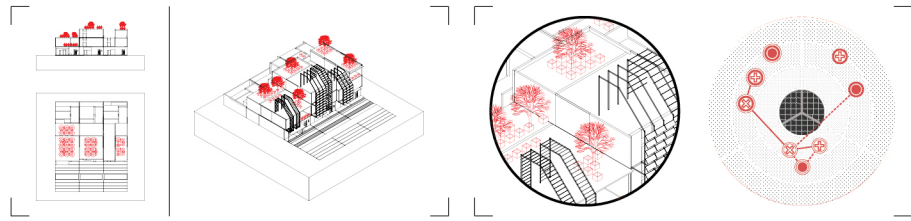


FIG. 8.36 left, 8.37 right, (Own elaboration) The figures show the potentials areas where the actions are to be implemented and the catalogue of actions at the micro scale respectively.



S [19.1] \_  
Foster the increase of green natural elements in Roofs (fifth facade), integrating them primarily by using native species and by giving incentives to local communities



S [23.2] \_  
Active community gardens in vacant lots or wasteland

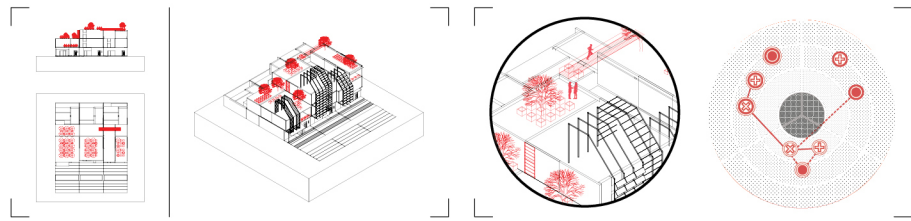
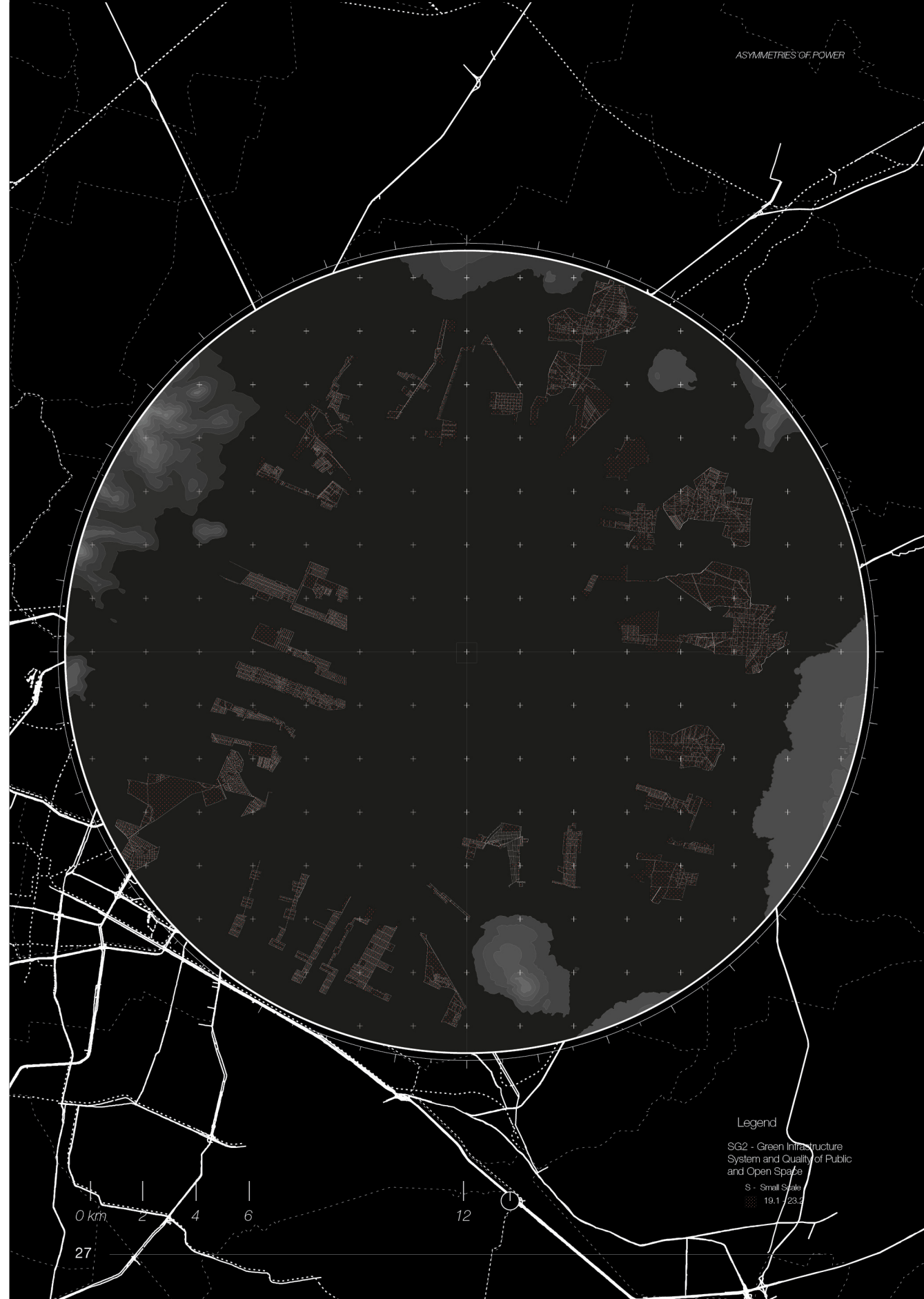
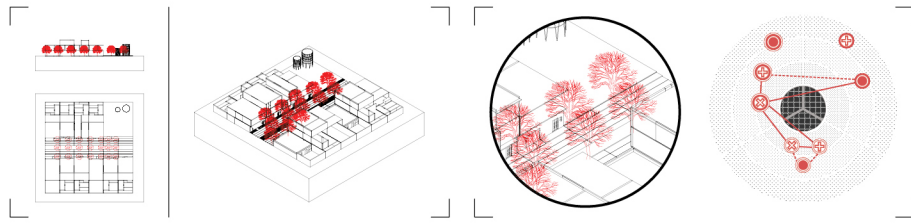


FIG. 8.38 left, 8.39 right, (Own elaboration) The figures show the potentials areas where the actions are to be implemented and the catalogue of actions at the small scale respectively.

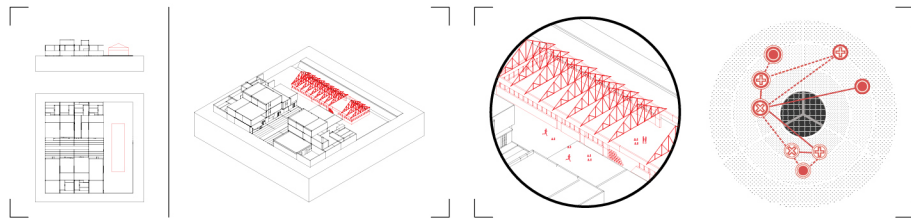


Legend  
SG2 - Green Infrastructure System and Quality of Public and Open Space  
S - Small Scale  
19.1 23.2

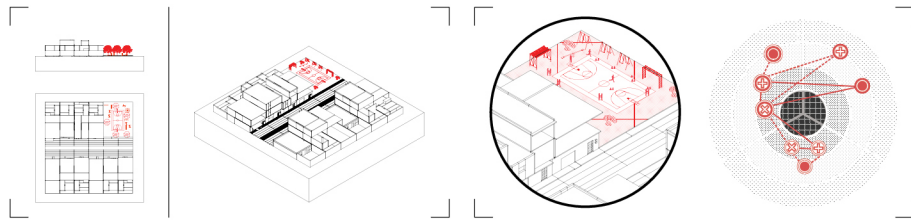
M [20.1] \_  
Foster the greenification of streets and roads as potential green corridors. Oversized streets with left-over spaces can be turned into linear parks or expand the pedestrian system



M [24.2] \_  
Reuse abandoned buildings for public activities by refurbishing them, allowing the participation of the community



M [27.3] \_  
Neighborhood parks, in unused wasteland integrating the community in a participative process for its development



M [28.3] \_  
Building new capacitation centers, places/hubs for community knowledge

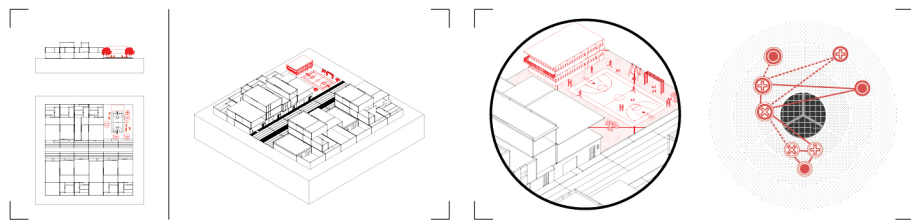
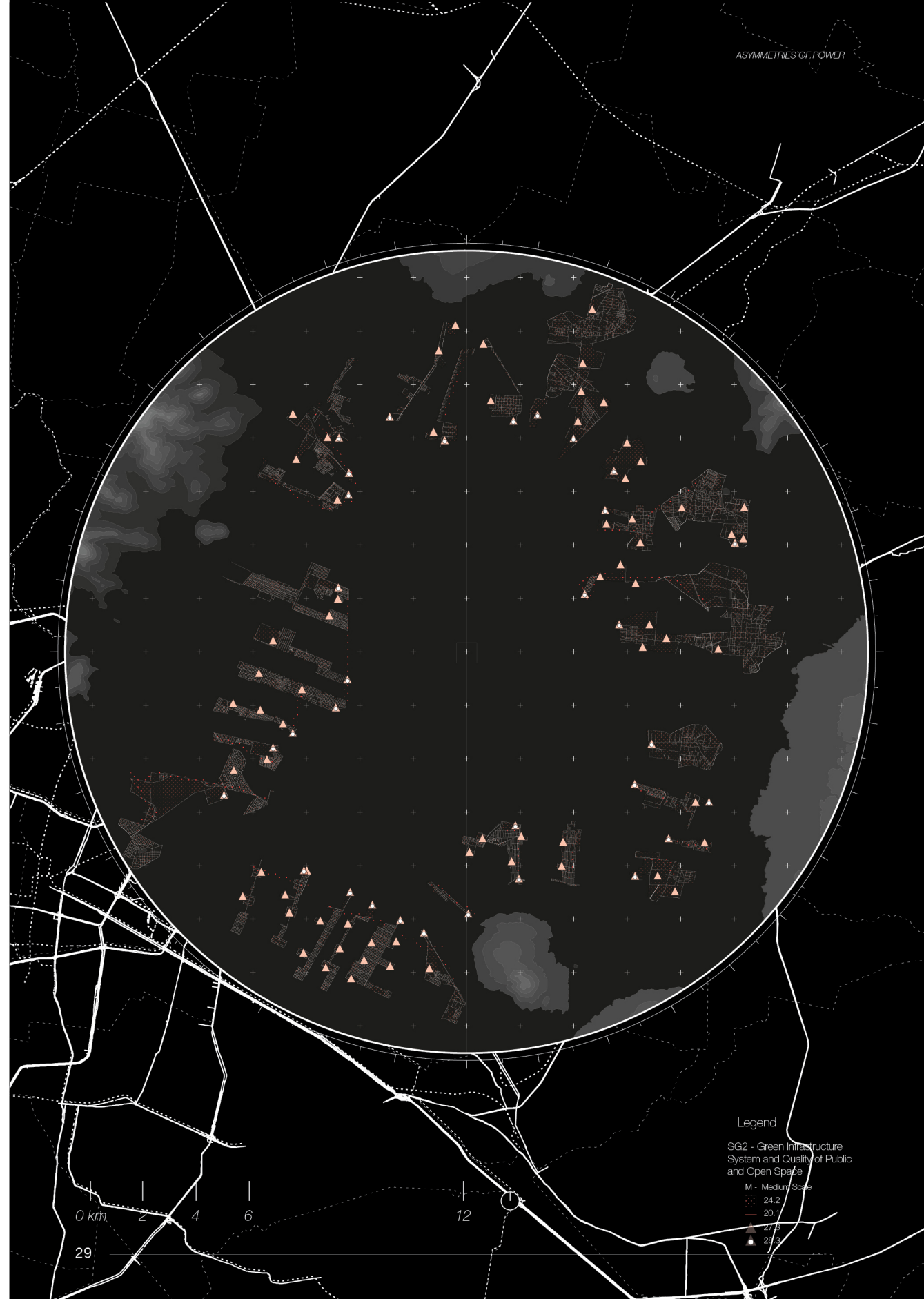
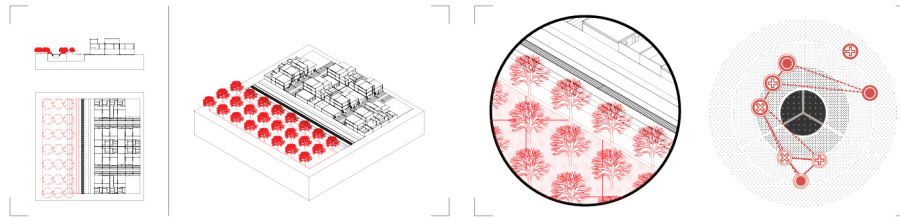


FIG. 8.40 left, 8.41 right, (Own elaboration) The figures show the potentials areas where the actions are to be implemented and the catalogue of actions at the medium scale respectively.

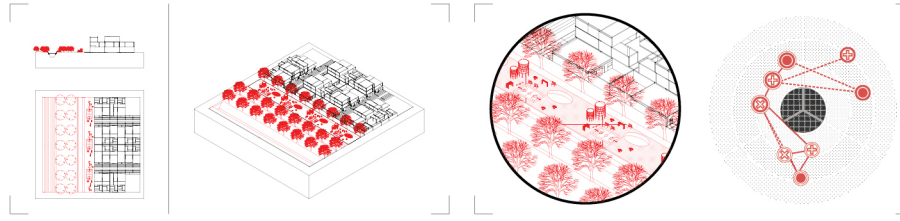


Legend  
SG2 - Green Infrastructure System and Quality of Public and Open Space  
M - Medium Scale  
24.2  
20.1  
27.3  
28.3

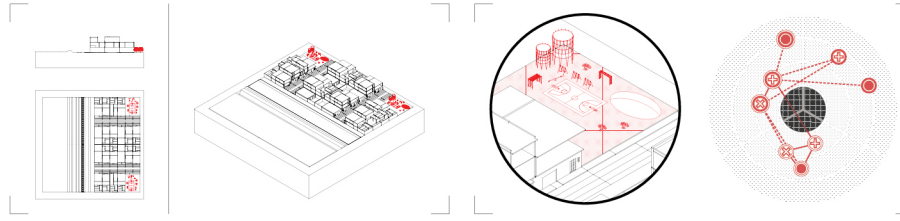
L [21.1] \_  
Create ecological corridors / green corridors enhancing natural habitats through regenerative interventions



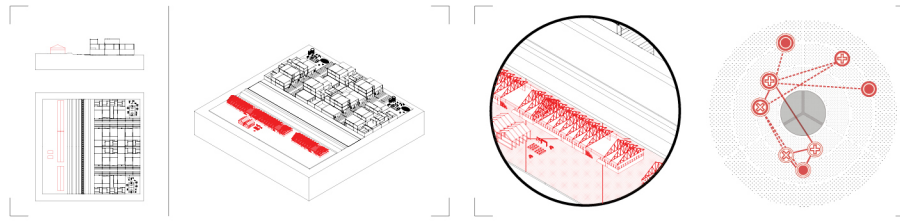
L [22.1] \_  
Create linear parks maximizing natural elements, and creating continuity and porosity of the green landscape



L [25.2] \_  
Restoration and activation of public spaces that are currently unused or lack of definition



L [29.3] \_  
Social hub / civic centers with new cultural program



L [30.3] \_  
Create linear parks maximizing greenery, and creating continuity and porosity of the green landscape

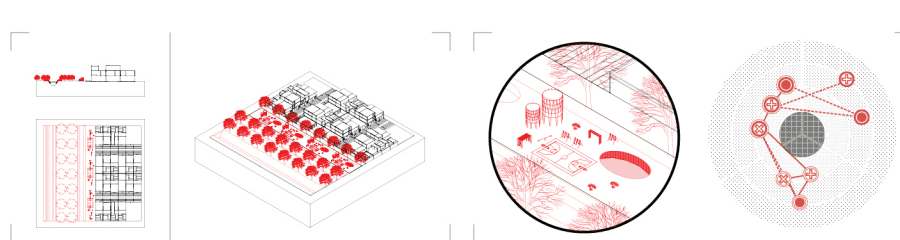
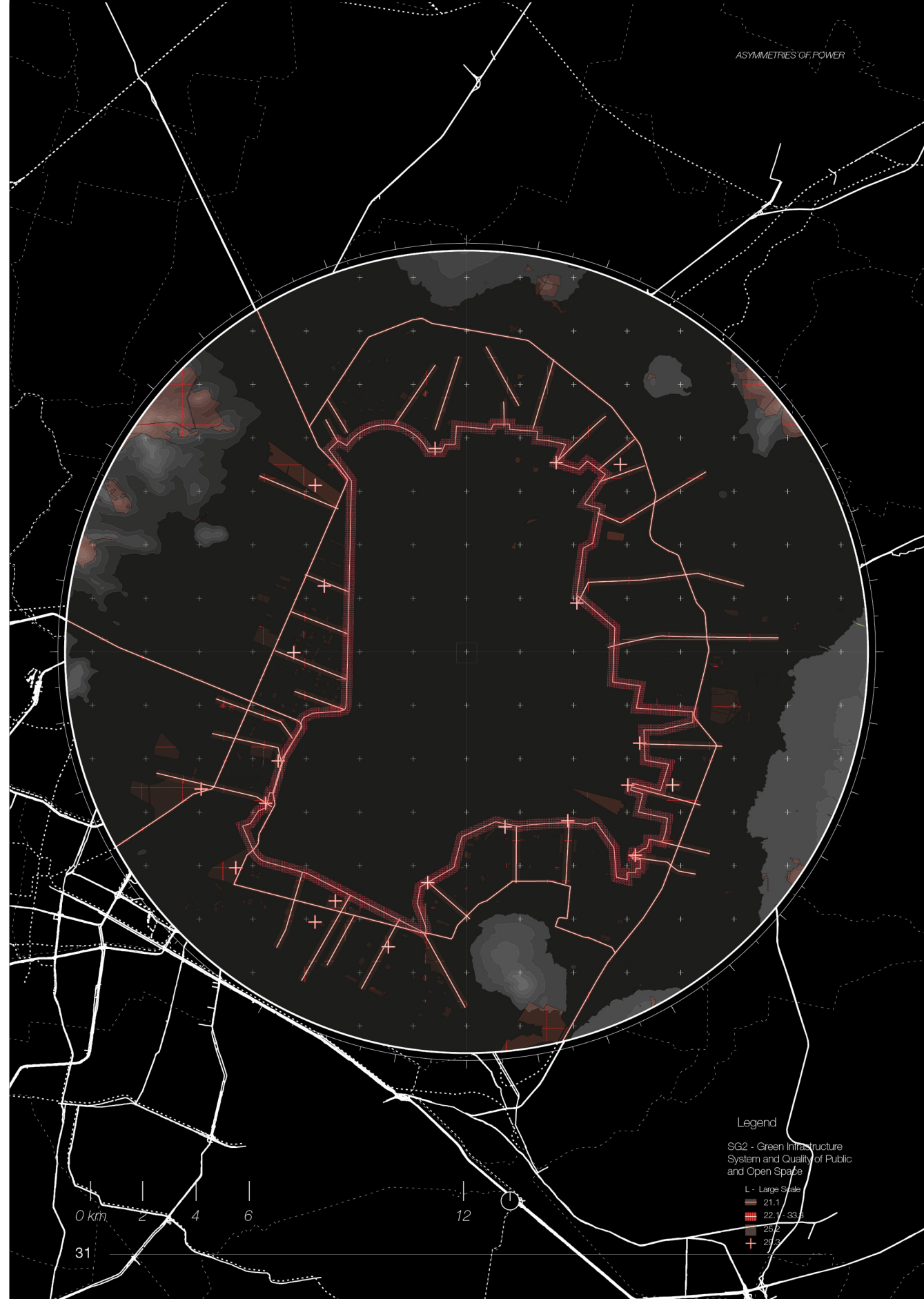


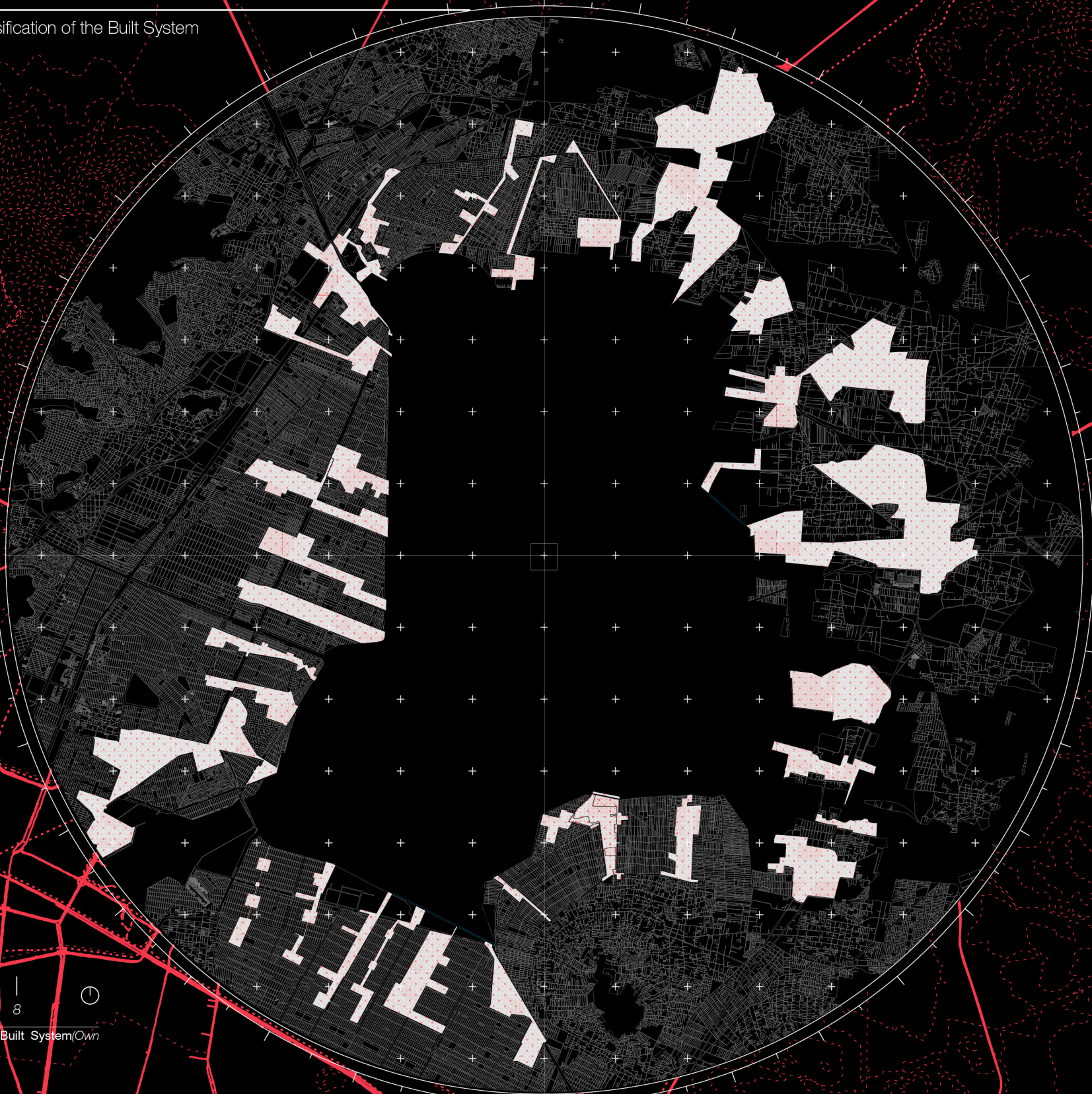
FIG. 8.42 left, 8.43 right, (Own elaboration) The figures show the potentials areas where the actions are to be implemented and the catalogue of actions at the large scale respectively.



Legend  
SG2 - Green Infrastructure System and Quality of Public and Open Space  
L - Large Scale  
21.1  
22.1 - 33.3  
25.2  
29.3



Potentials and Actions SG3 - Densification of the Built System



Legend

SG3 - Densification of the Built System

S - Small Scale

33.2

M - Medium Scale

31.1 - 34.2

36.3

L - Large Scale

32.1 - 35.2

37.3 - 38.3



FIG. 8.44 XL Potentials Densification of the Built System (Own elaboration)

S [33.2] \_  
Housing co-production in  
terraces or rooftops (fifth  
facade)

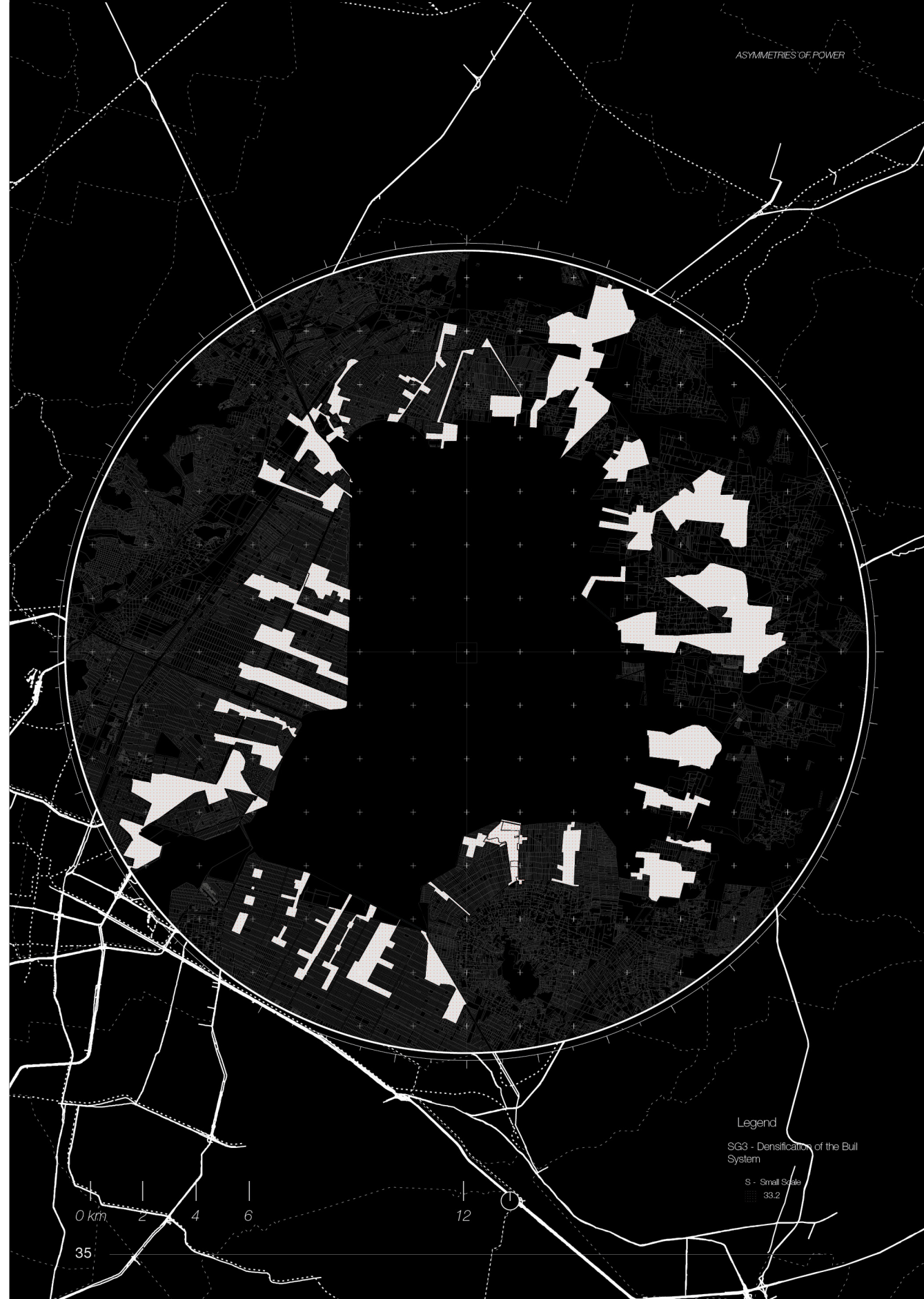
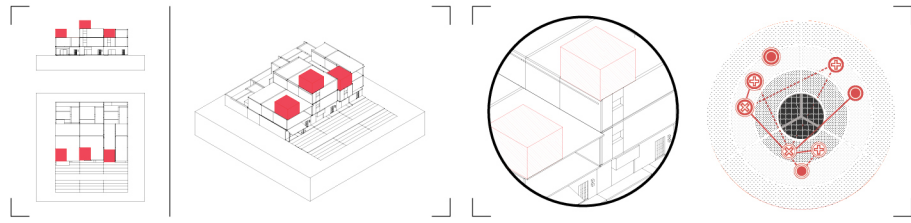
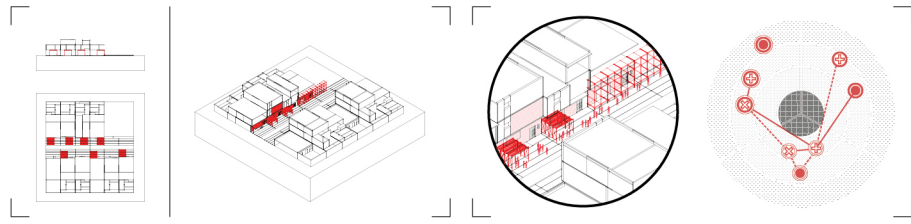


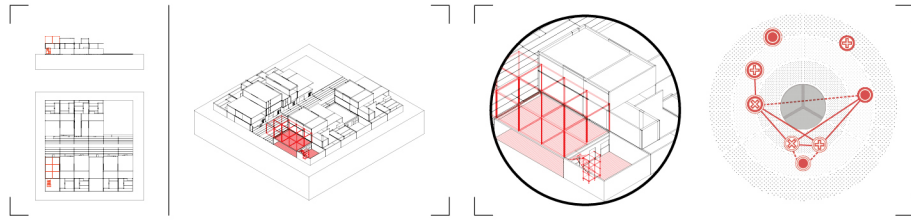
FIG. 8.45 left, 8.46 right, (Own elaboration) The figures show the potentials areas where the actions are to be implemented and the catalogue of actions at the small scale respectively.

Legend  
 SG3 - Densification of the Bull System  
 S - Small Scale  
 33.2

M [31.1] \_  
 Reprogramming unused buildings providing uses, spaces and services that ensure high urban quality and compatible functions



M [34.2] \_  
 Densification through self-built housing typologies and insertion of mixed uses in current urban fabric



M [36.3] \_  
 Self-built housing typologies through cooperative production

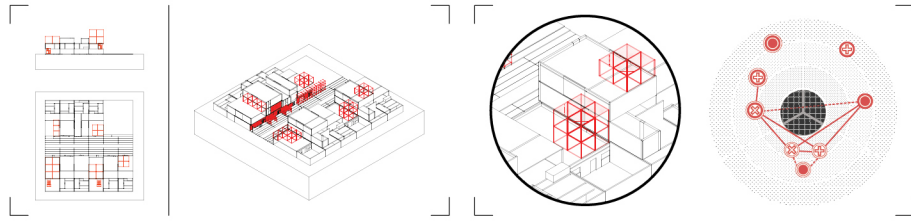
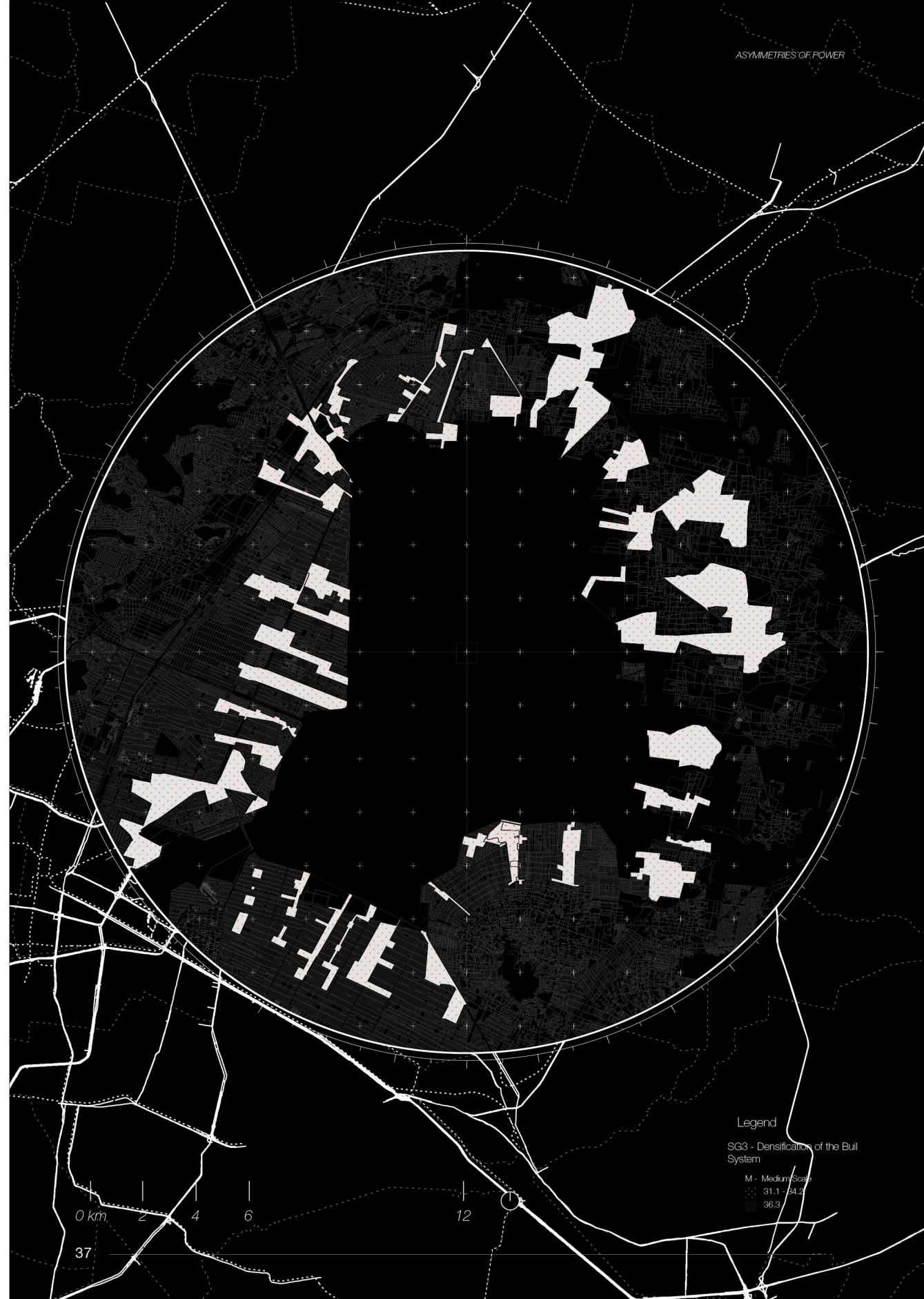


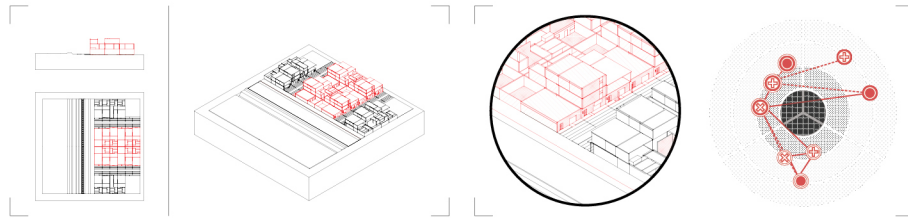
FIG. 8.47 left, 8.48 right, (Own elaboration) The figures show the potentials areas where the actions are to be implemented and the catalogue of actions at the medium scale respectively.



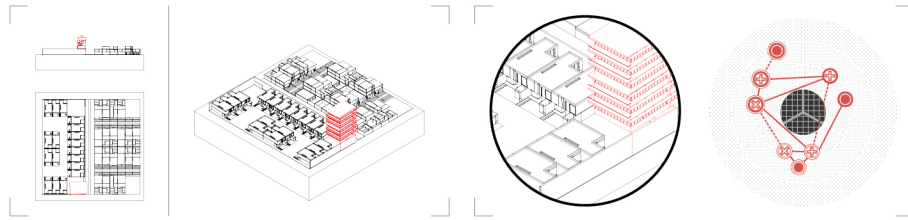
Legend  
 SG3 - Densification of the Bull System  
 M - Medium Scale  
 31.1 - 34.2  
 36.3

0 km 2 4 6 12

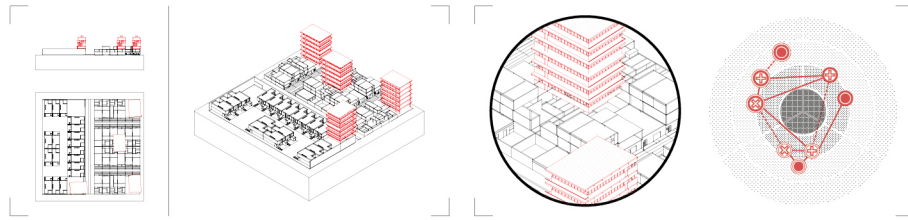
L [32.1] \_  
 Reprogramming unused buildings by introducing new uses or infill program that fosters endogenous development



L [35.2] \_  
 Densification infill through opening up gated communities allowing new uses and diversification



L [37.3] \_  
 Take advantage of local climatic and solar conditions with the new mixed-use volumes



L [38.3] \_  
 Build new multifunctional and multifamily housing complexes in vacant land, or underused land, increasing FSI and GSI indexes

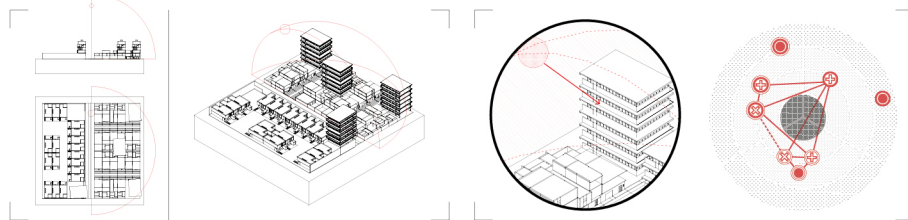
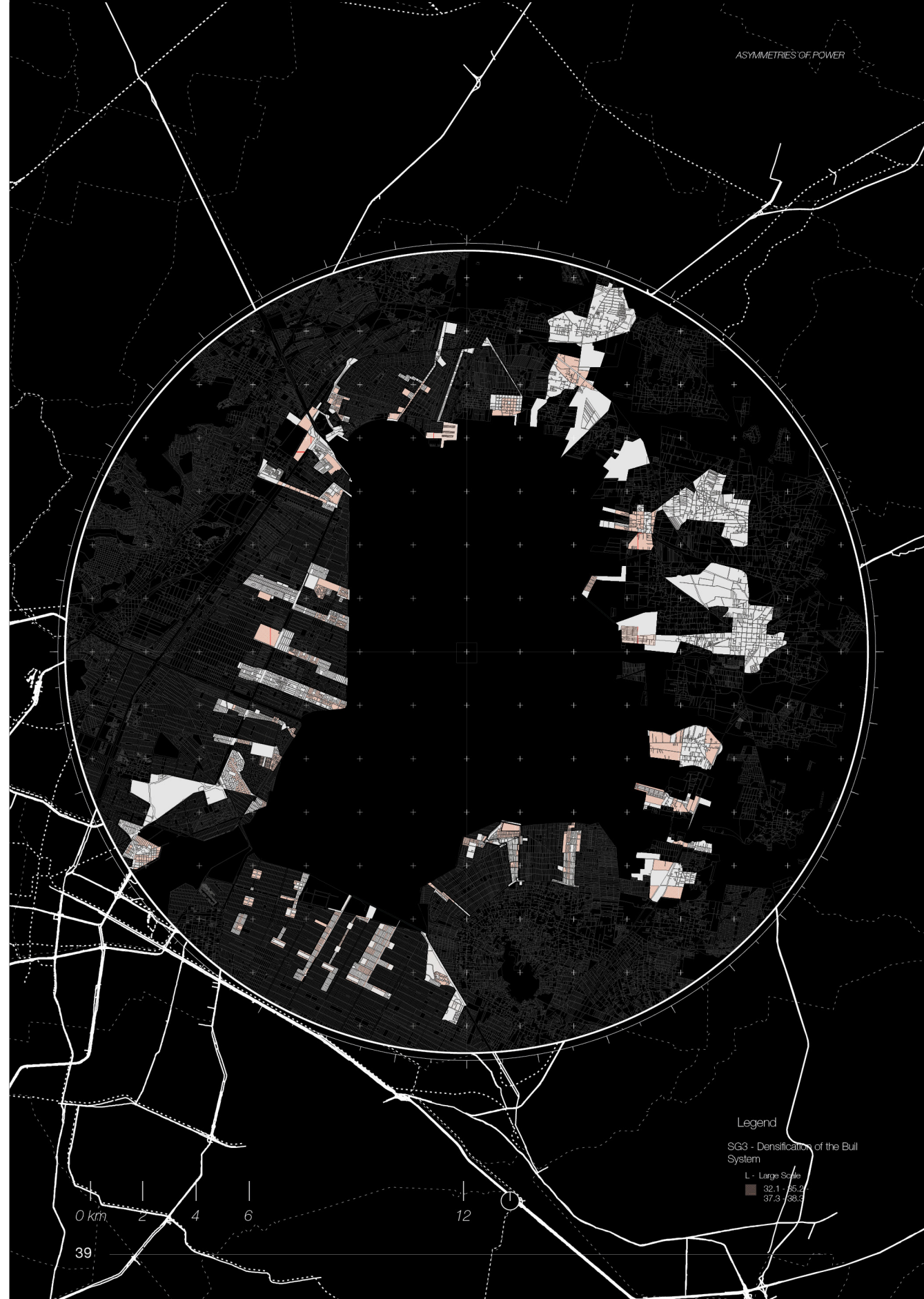
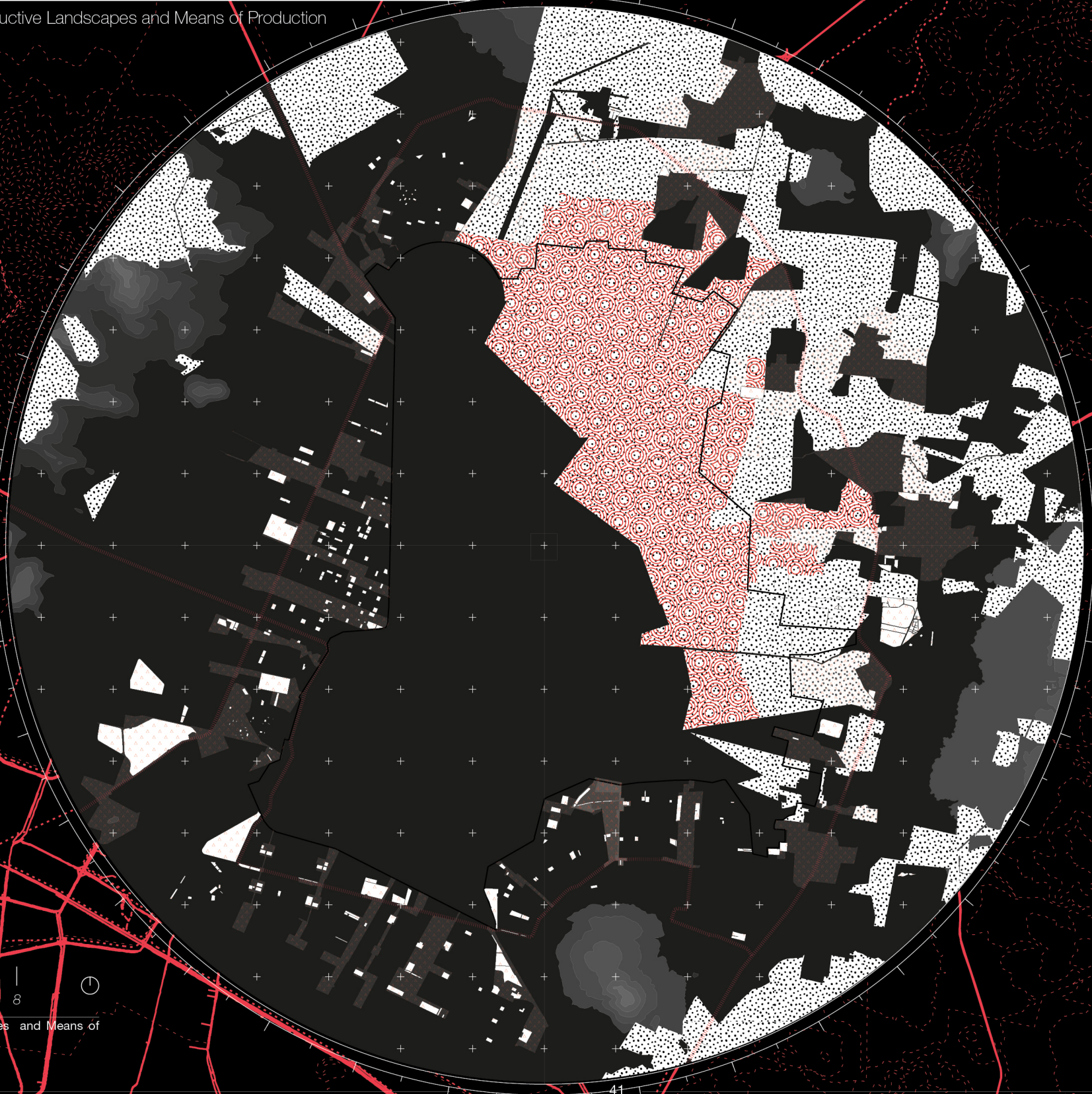


FIG. 8.49 left, 8.50 right, (Own elaboration) The figures show the potentials areas where the actions are to be implemented and the catalogue of actions at the large scale respectively.



Legend  
 SG3 - Densification of the Bull System  
 L - Large Scales  
 ■ 32.1 35.2  
 ■ 37.3 38.3

Potentials and Actions SG4 - Productive Landscapes and Means of Production



- Legend
- SG4 - Productive Landscapes and Means of Production
- Mi - Micro Scale  
42.2
  - S - Small Scale  
39.1 - 43.2 - 47.3
  - M - Medium Scale  
40.1 - 44.2 - 48.3
  - L - Large Scale  
41.1 - 49.3
  - 45.2
  - 46.2



FIG. 8.51 XL Potentials Productive Landscapes and Means of Production (Own elaboration)

MI [42.2] \_  
Micro production of  
vegetables in facades and  
solar panels in the facade of a  
single unit

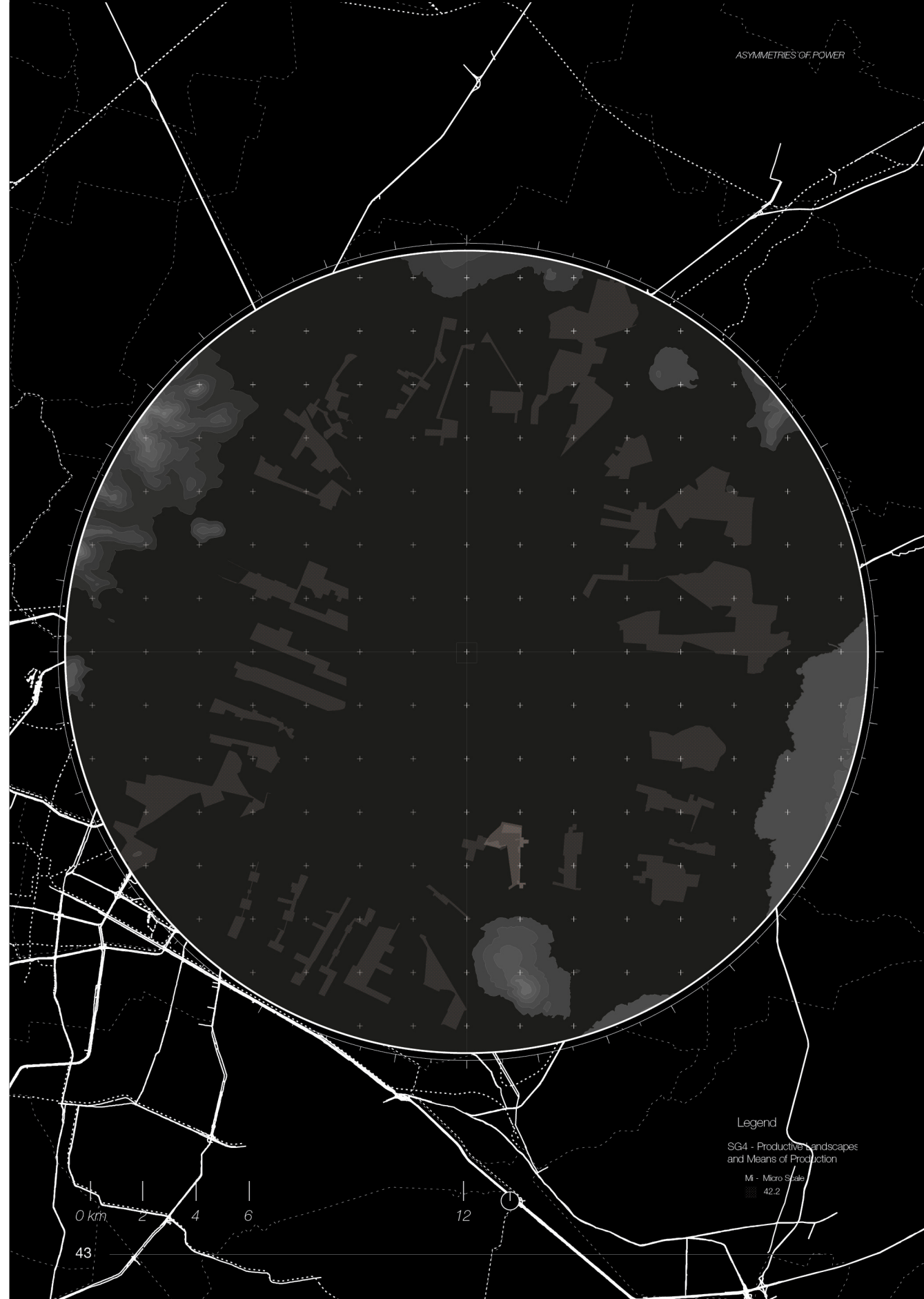
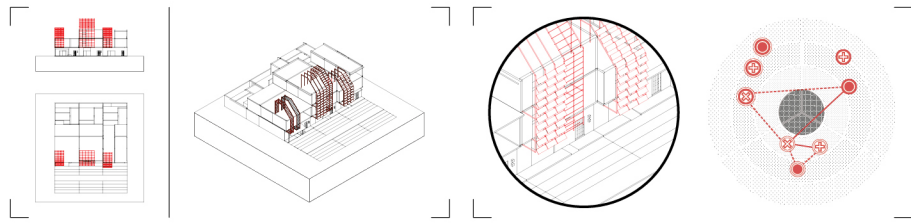
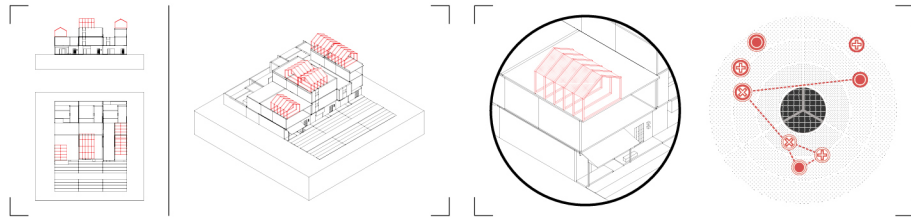
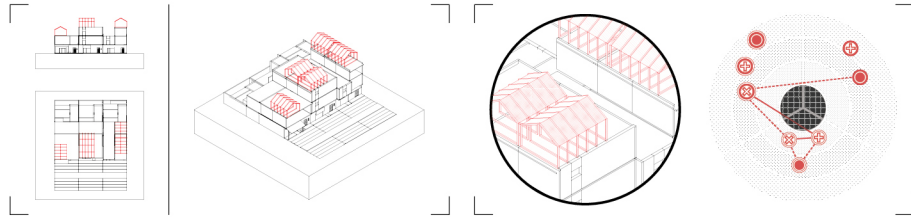


FIG. 8.52 left, 8.53 right, (Own elaboration) The figures show the potentials areas where the actions are to be implemented and the catalogue of actions at the micro scale respectively.

S [39.1] \_  
Vegetable gardens and small cultivation areas in wasteland available



S [43.2] \_  
Self-built greenhouses on roof tops and solar panels rooftops



S [47.3] \_  
Micro temporary additions/ extensions to existing housing units that facilitate flexibility for commercial and productive use of street fronts

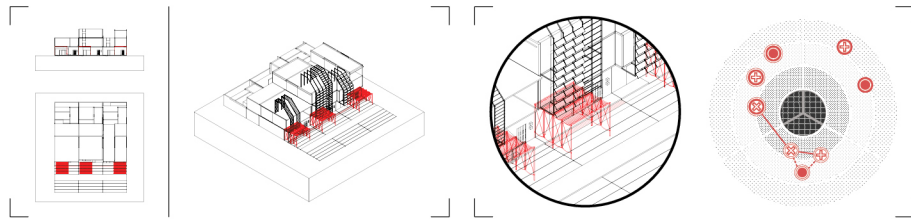
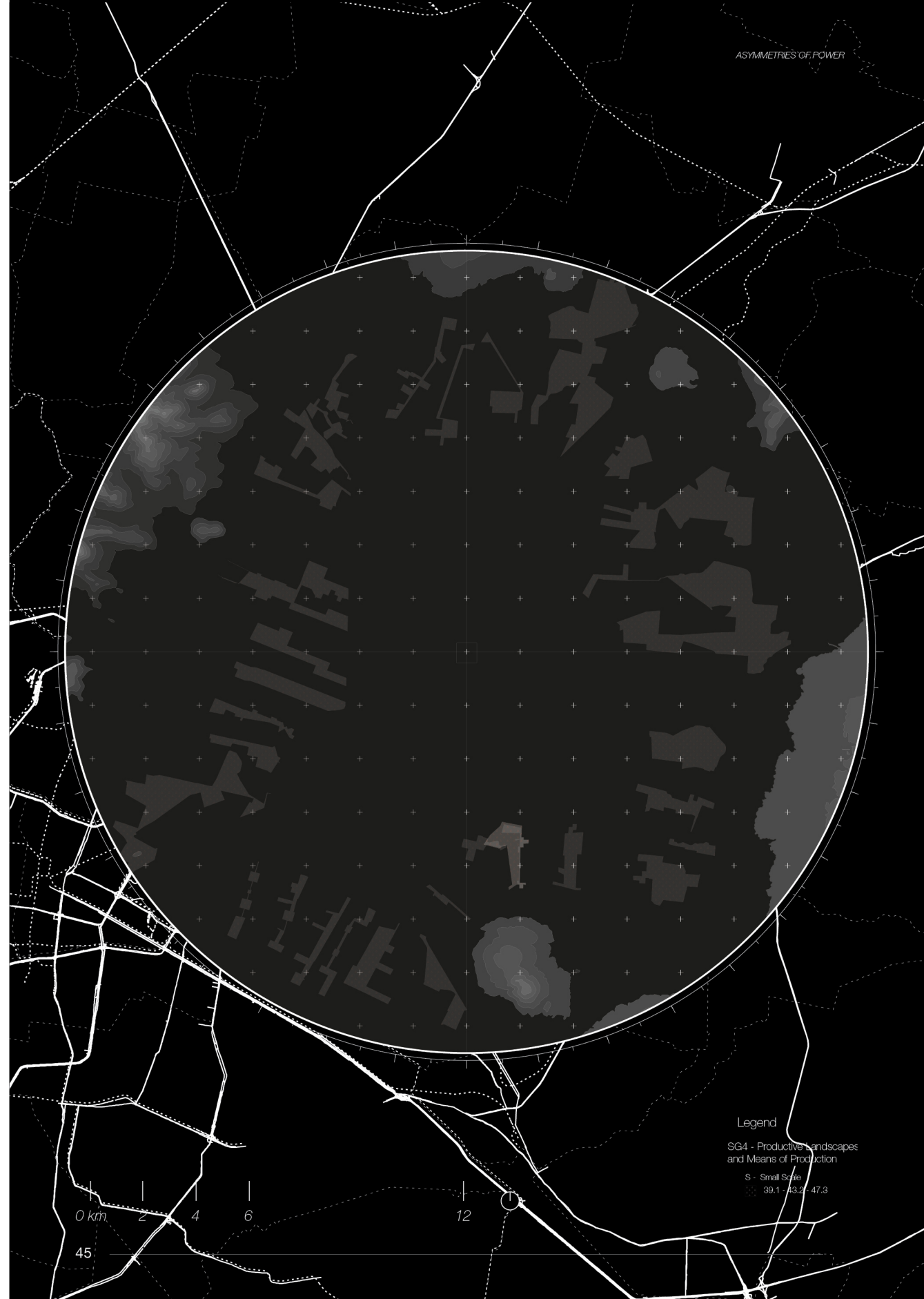
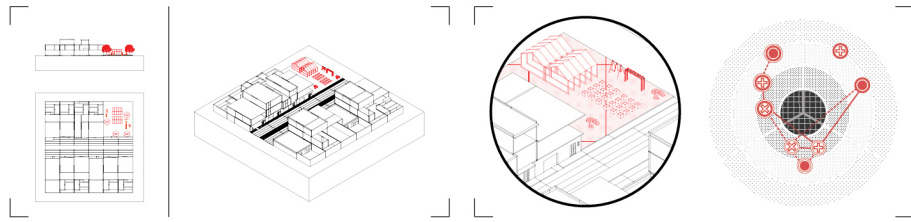


FIG. 8.54 left, 8.55 right, (Own elaboration) The figures show the potentials areas where the actions are to be implemented and the catalogue of actions at the small scale respectively.

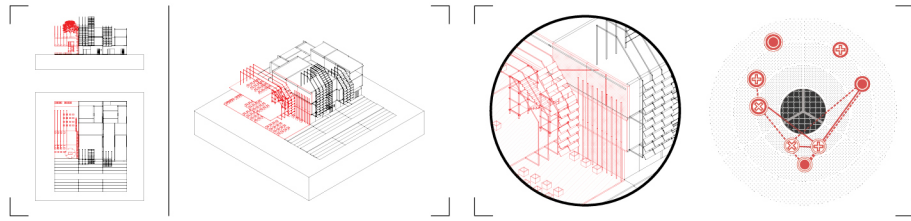


Legend  
SG4 - Productive Landscapes and Means of Production  
S - Small Scales  
39.1 - 43.2 - 47.3

M [40.1] \_  
Cooperative agriculture in  
neighbourhood parks or  
available open space



M [44.2] \_  
Self-built greenhouses through  
cooperative production in  
open space or interstitial  
spaces



M [48.3] \_  
Introducing spaces for  
commercial and local  
productive activities such as  
small workshops on street  
level enforces alternative  
inhabitation modalities

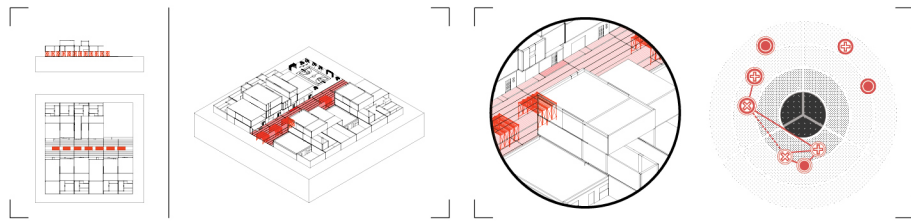
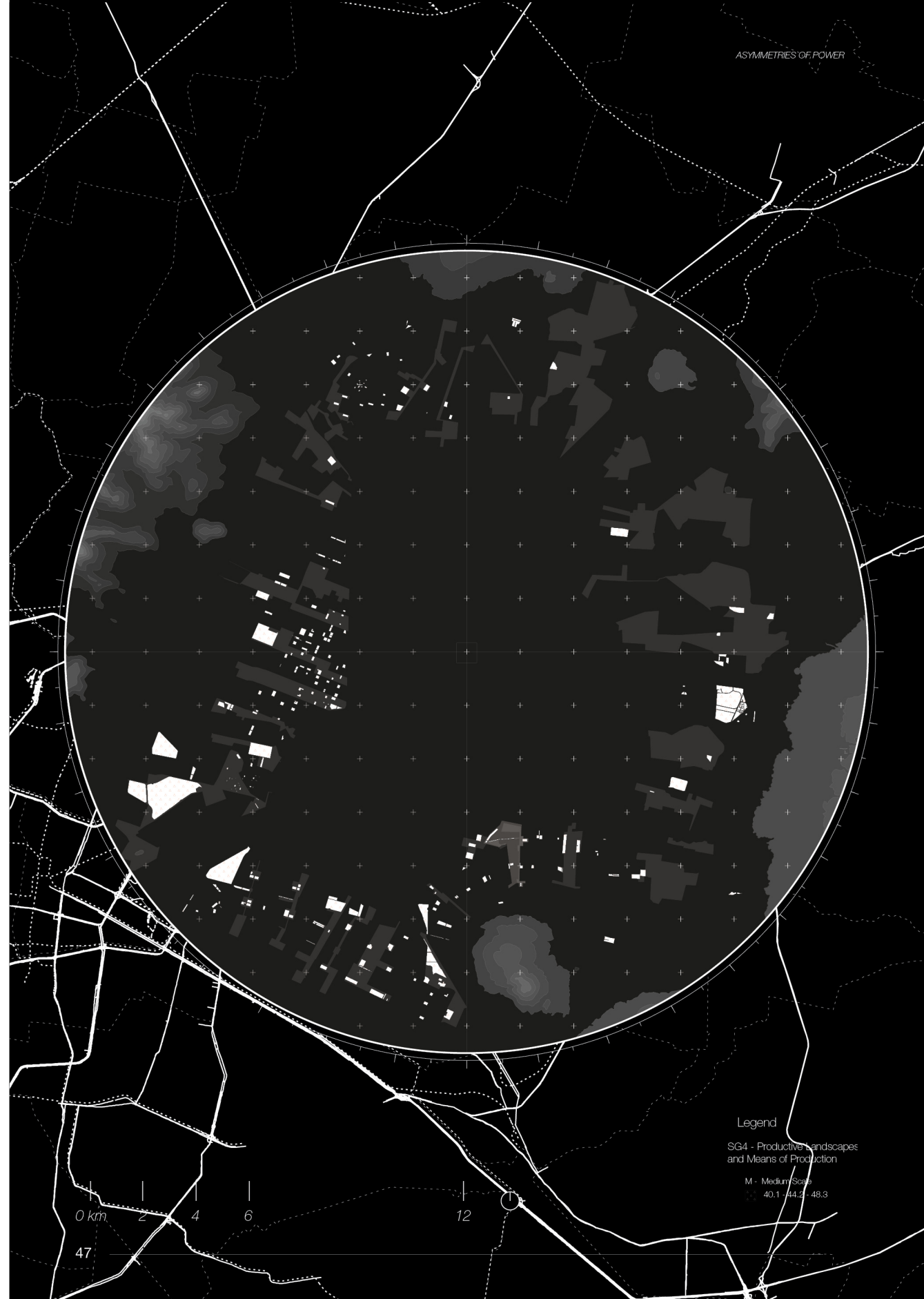
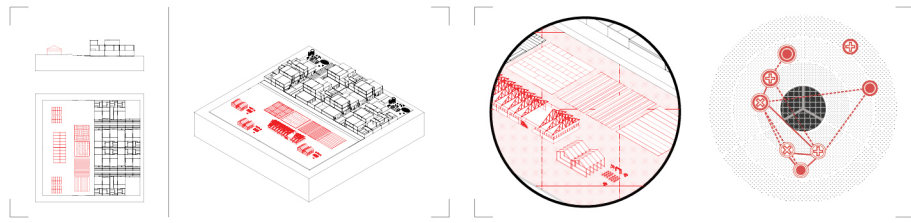


FIG. 8.56 left, 8.57 right, (Own elaboration) The figures show the potentials areas where the actions are to be implemented and the catalogue of actions at the medium scale respectively.

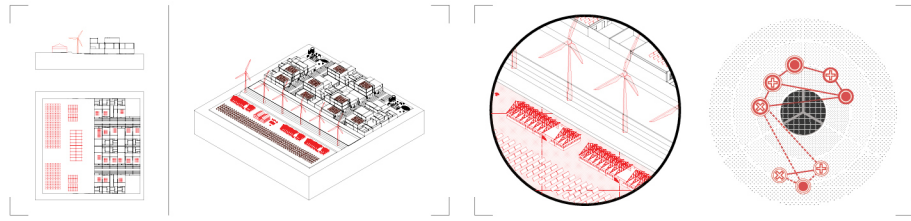




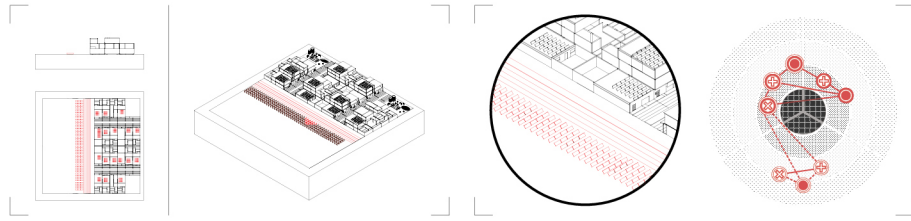
L [41.1] \_  
Cooperative agriculture  
in large areas suitable for  
cultivation



L [46.2] \_  
Insertion of productive  
landscapes by private  
investors / wind farms, solar  
farms in available land



L [45.2] \_  
Solar panels along  
infrastructure such as the  
inter-municipal highway ring  
along the void or regional  
connection routes



L [49.3] \_  
Insertion of commercial  
activities along important  
streets or wasteland open  
spaces.

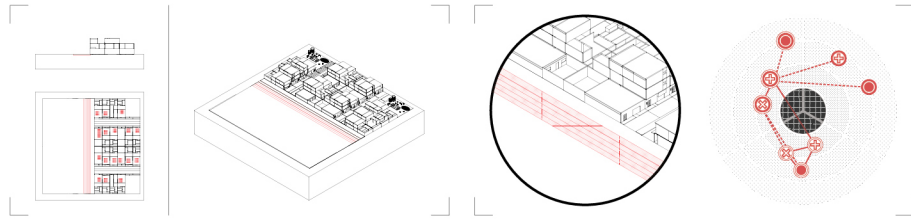
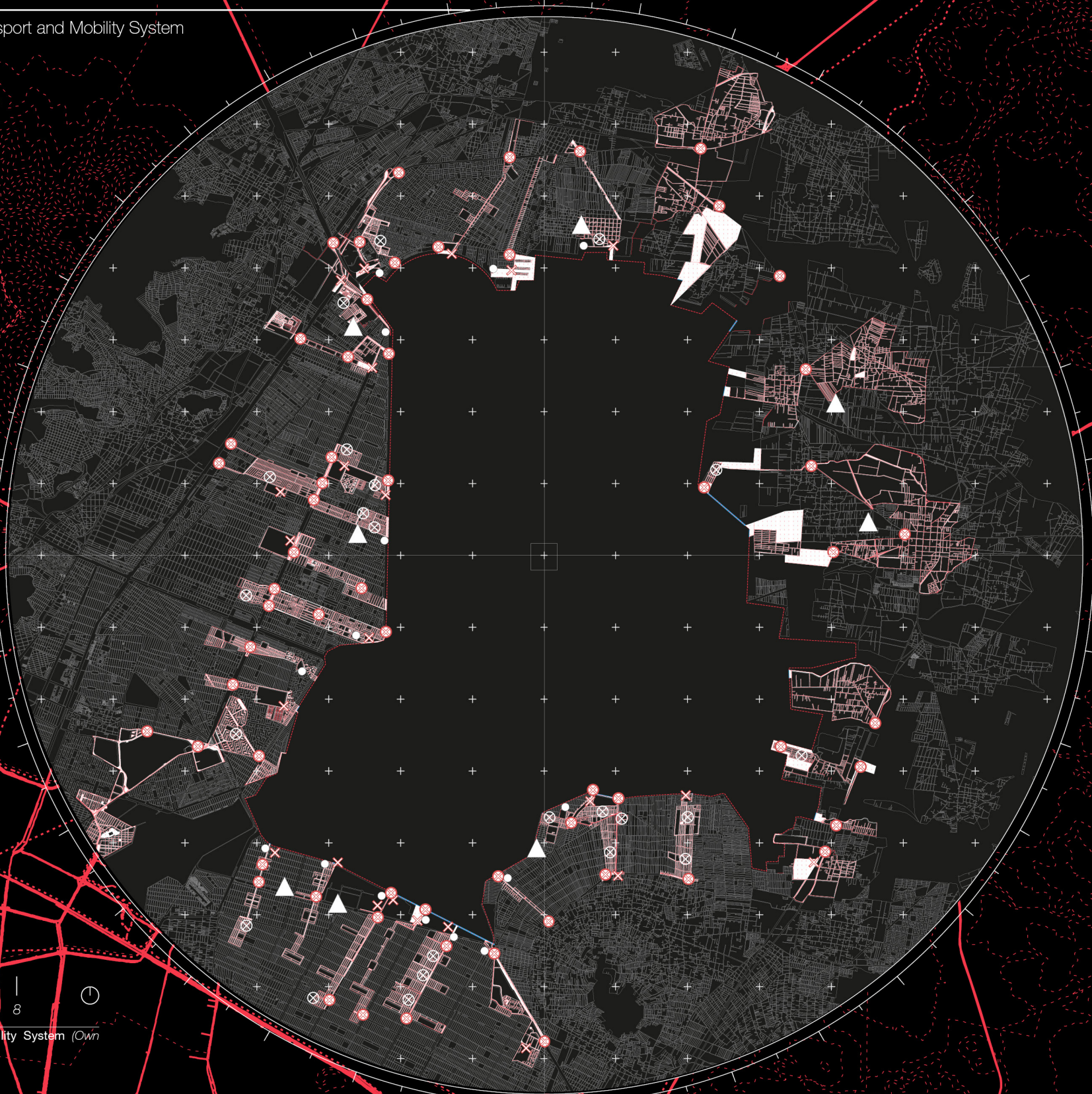


FIG. 8.58 left, 8.59 right, (Own elaboration) The figures show the potentials areas where the actions are to be implemented and the catalogue of actions at the large scale respectively.



Legend  
SG4 - Productive Landscapes  
and Means of Production  
L - Large Scale  
41.1 - 49.3  
45.2  
46.2

Potentials and Actions SG5 - Transport and Mobility System

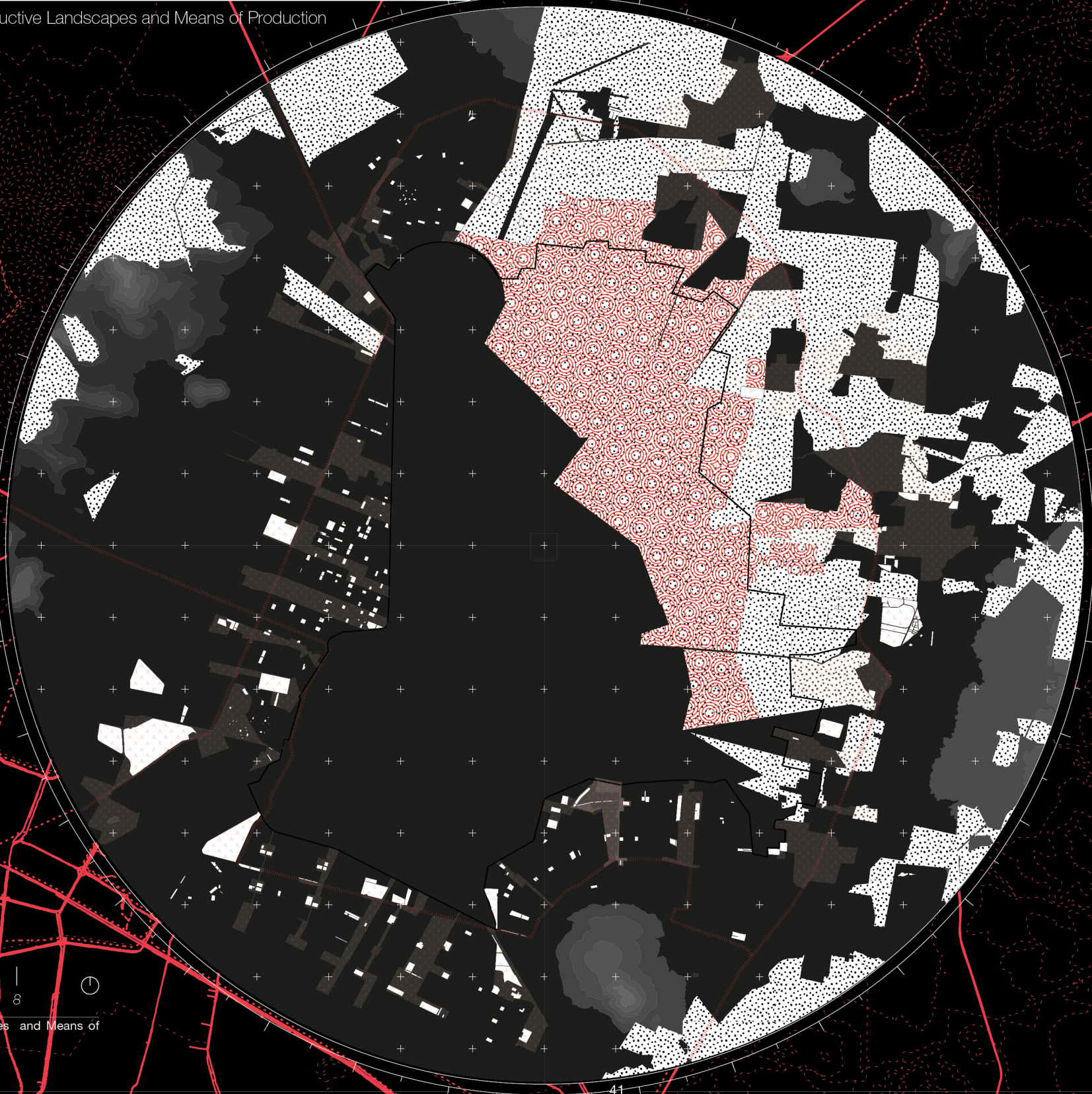


- Legend
- SG5 - Transport and Mobility System
- S - Small Scale  
52.2 - 60.0
  - M - Medium Scale  
50.1
  - - 53.2 - 57.3
  - L - Large Scale  
51.1 - 60.3
  - - 54.2
  - ⊗ - 55.2
  - ▲ - 58.3
  - ⊗ - 59.3
  - Inter-municipal connections



FIG. 8.60 XL Potentials Transport and Mobility System (Own elaboration)

Potentials and Actions SG4 - Productive Landscapes and Means of Production

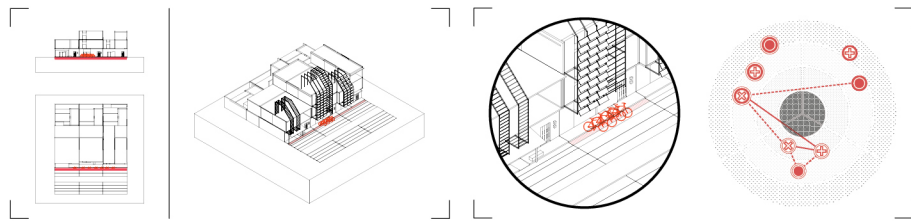


- Legend
- SG4 - Productive Landscapes and Means of Production
- Mi - Micro Scale  
42.2
  - S - Small Scale  
39.1 - 43.2 - 47.3
  - M - Medium Scale  
40.1 - 44.2 - 48.3
  - L - Large Scale  
41.1 - 49.3
  - 45.2
  - 46.2

0 km 2 4 8

FIG. 8.51 XL Potentials Productive Landscapes and Means of Production (Own elaboration)

S [52.2] \_  
 Arrange proper lot access to  
 allow the clear distribution and  
 easy orientation



S [56.3] \_  
 Make bicycle parking areas,  
 provide the reserved parking  
 area for car sharing and  
 carpooling spaces

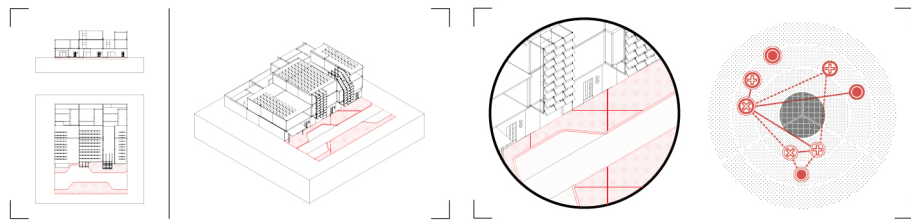
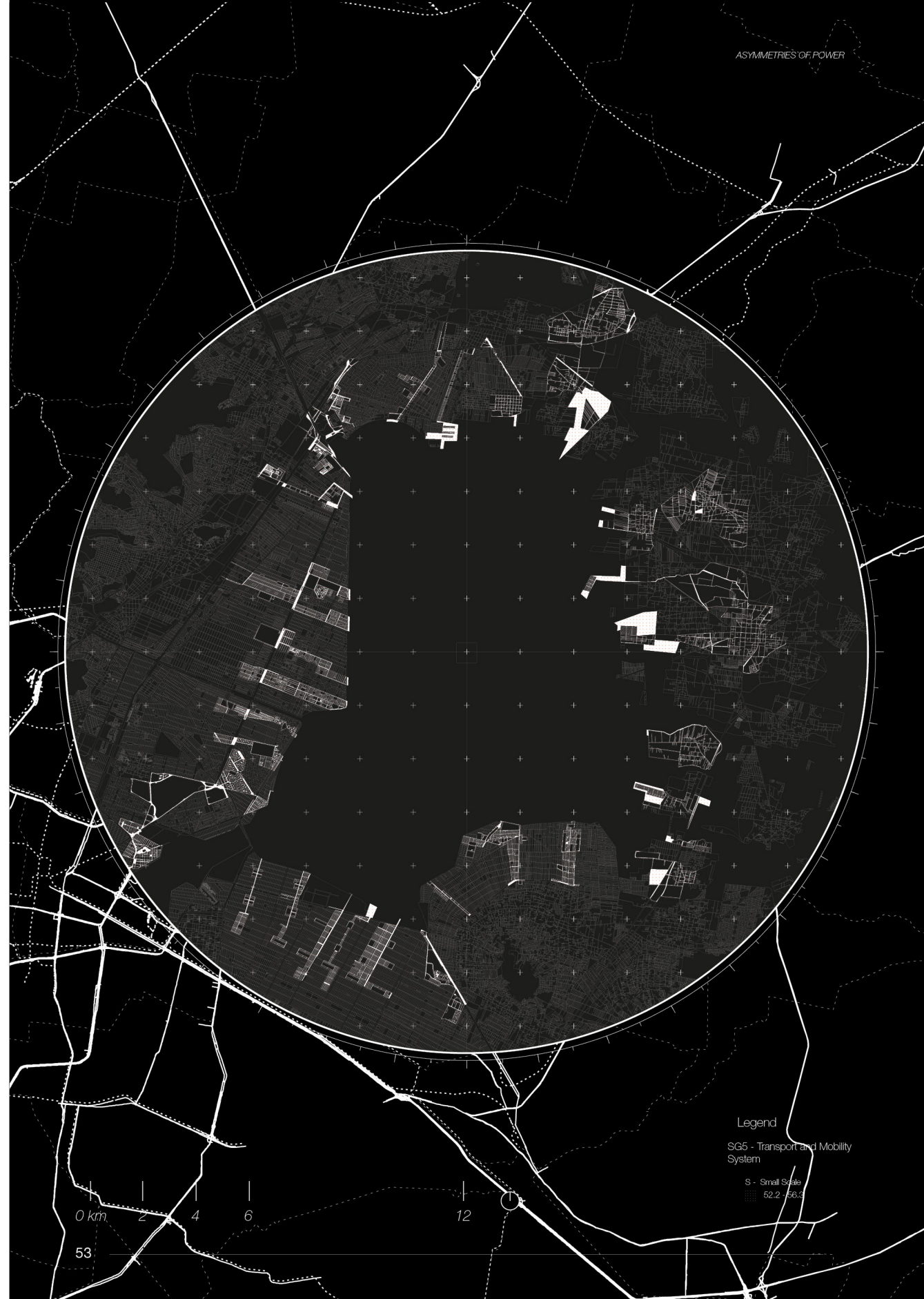
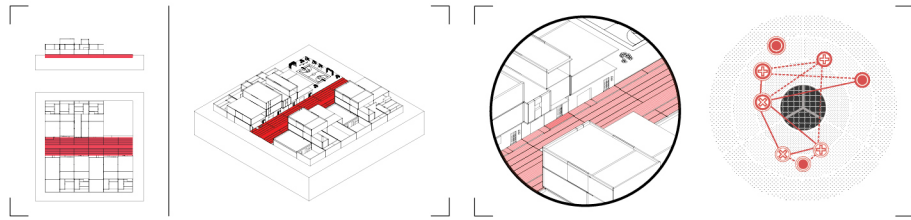


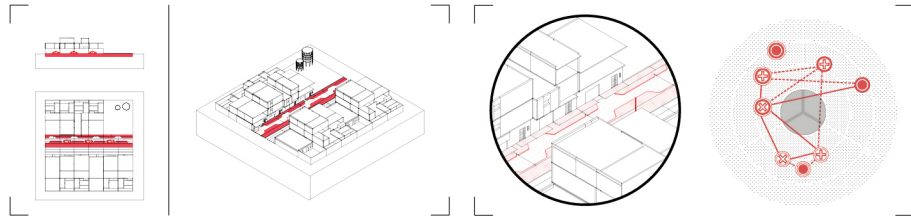
FIG. 8.61 left, 8.62 right, (Own elaboration) The figures show the potentials areas where the actions are to be implemented and the catalogue of actions at the small scale respectively.



M [50.1] \_  
Scheduled seasonal street  
closing by community  
participation



M [53.2] \_  
Adapt the parking system,  
reducing interference with  
vehicular traffic and facilitating  
circulation



M [57.3] \_  
Locate strategically parking/  
waiting spaces for public  
transport, ensuring the  
adequate visibility recognition  
and protection

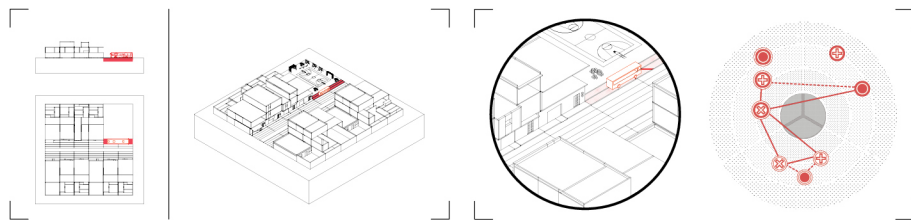
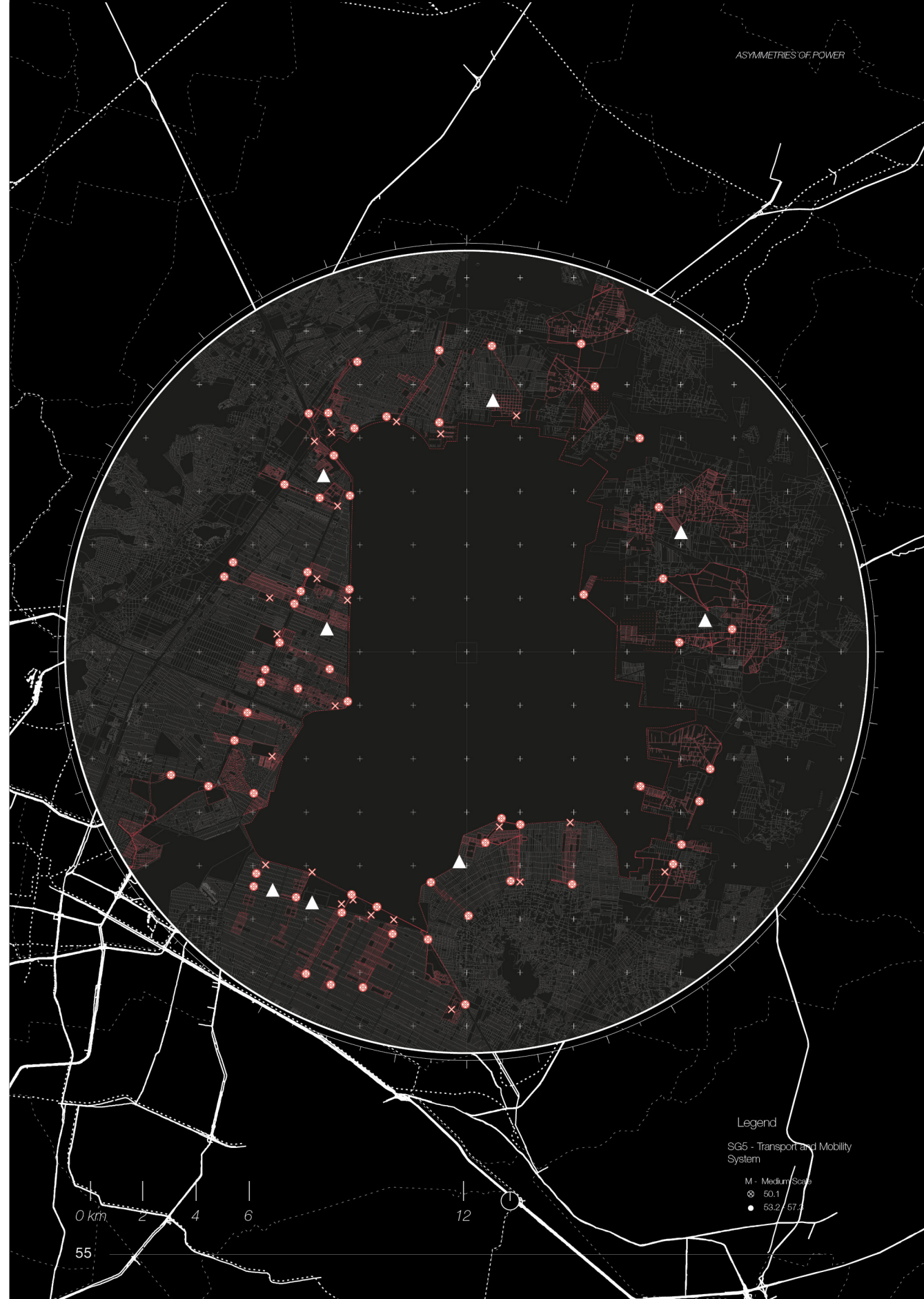


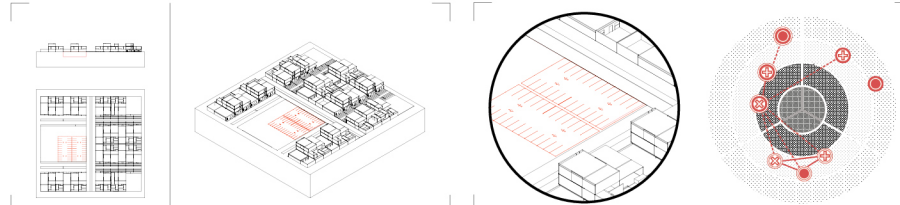
FIG. 8.63 left, 8.64 right, (Own elaboration) The figures show the potentials areas where the actions are to be implemented and the catalogue of actions at the medium scale respectively.



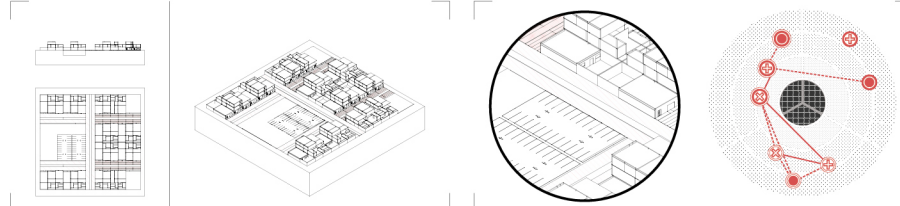
Legend  
SG5 - Transport and Mobility  
System  
M - Medium Scale  
⊗ 50.1  
● 53.2, 57.3

0 km 2 4 6 12

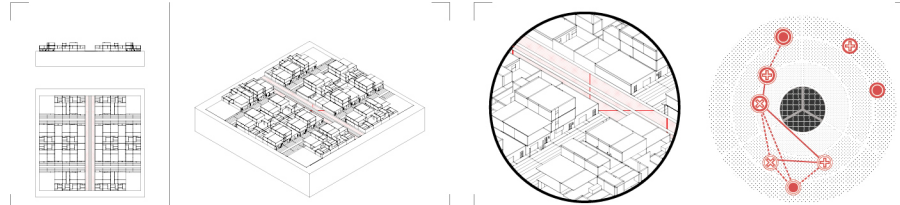
L [51.1] \_  
Solve the critical points in the area's accessibility system, separating internal flows to external ones, with adaptations to the existing networks



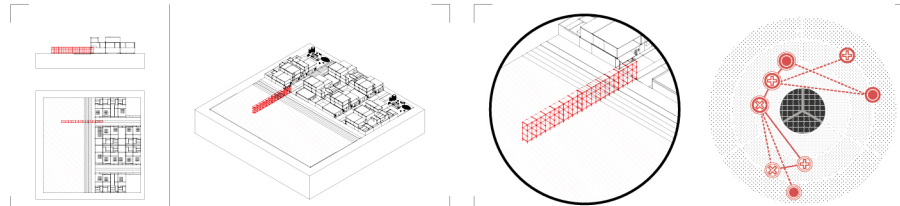
L [54.2] \_  
Arrange proper parking lots in available plots or underused land



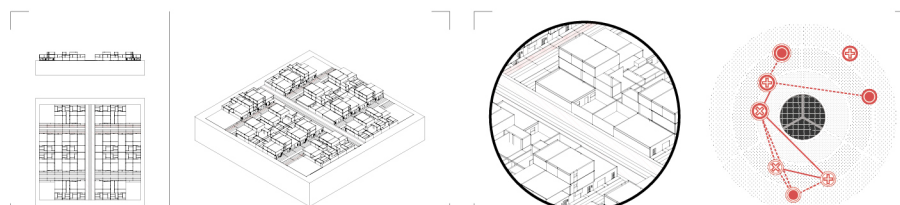
L [55.2] \_  
Realize dedicated areas for freight/material storage and manoeuvring/parking areas for heavy vehicles by mitigating them appropriately in the land-scape



L [58.3] \_  
Ensure a multifunctional territorial connection, creating cycle and pedestrian paths for home/work moving, linking the area with city centers and railway stations



L [59.3] \_  
Provide a continuous and secure cycling and pedestrian network



L [60.3] \_  
Rationalize internal circulation in terms of accessibility of emergency vehicles by ensuring the presence of spaces necessary for the joint management of emergencies and safety

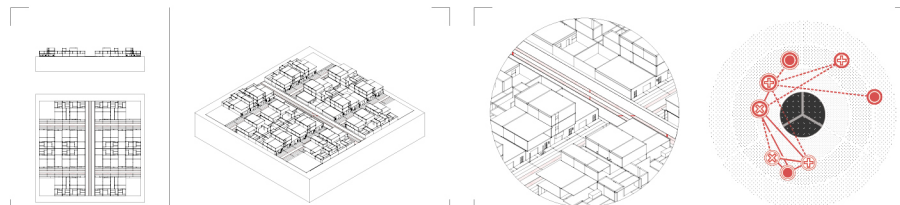
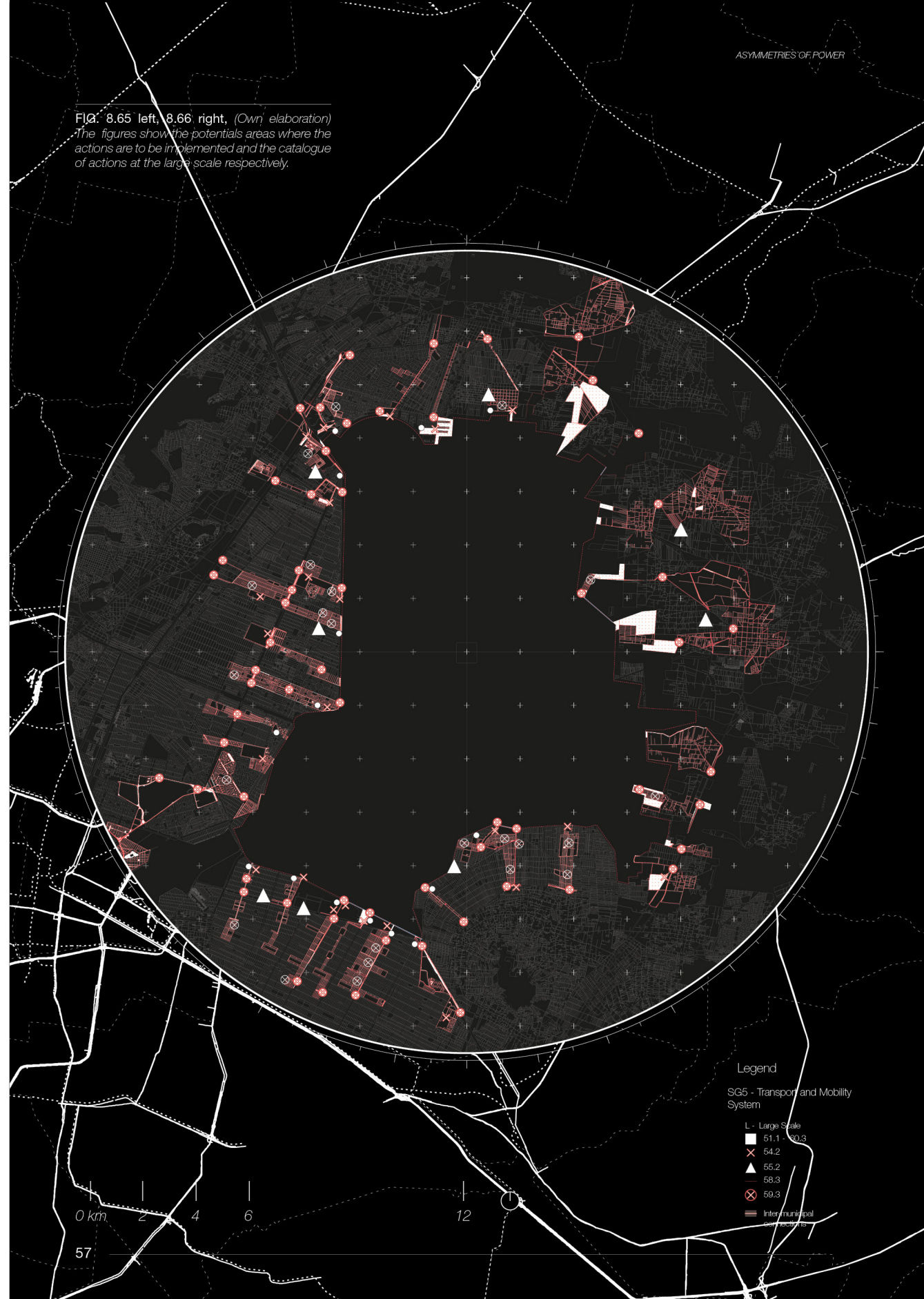


FIG. 8.65 left, 8.66 right. (Own elaboration)  
The figures show the potentials areas where the actions are to be implemented and the catalogue of actions at the large scale respectively.



Legend

SG5 - Transport and Mobility System

- L - Large Scale
- 51.1
- × 54.2
- ▲ 55.2
- 58.3
- ⊗ 59.3
- Inter-municipal connections

0 km 2 4 6 12

## Conclusions

### \_Potentials SG1 - Water Landscape Integration and Management

Local initiatives towards micro and small interventions trigger the systemic change of the gates. However the systemic goal aims for higher integration between actors since larger scale actions which are necessary for an effective transformation require intermunicipal collaboration to be developed.

### \_Potentials SG2 - Green Infrastructure System and Quality of Public and Open Space

SG2 can accomplish systemic development with high ecological value and local integration from a bottom-up initiative, locally the gates foster micro, small and medium interventions that can be arranged faster than larger interventions. However potentials at a larger scale need intermunicipal collaboration to effectively connect the gates.

### \_Potentials SG3 - Densification of the Built System

In order for systemic change to happen regarding densification potentials, the gates need to engage the transformation of more than the existing building typologies, pairing its development with other goals to reprogram the existing fabric effectively. Most of the change needs investment and a high integration between actors.

### \_Potentials SG4 - Productive Landscapes and Means of Production

Means of production is a goal that can be stressed from a bottom up perspective supporting current practices in the gates. The potential lies in the collaborative effort of local communities to engage a more productive live, becoming themselves prosumers rather than just consumers. Agricultural land in the north east requires higher participation levels of powerful stakeholders to continue with a sustainable production and to experiment new effective measures.

### \_Potentials SG5 - Transport and Mobility System

Potentials regarding transport and mobility require higher levels of participation and interest, moreover systemic change can only be possible with an appropriate engagement with local communities enabling the transformations to support the endogenous development activated by the other goals. Active participation will also guarantee connectivity between the municipalities.

#### Legend



0 km 2 4 6 12

FIG. 8.67 (Own elaboration) The figures show all the potentials



**RAMM**