



The ecological city and the agricultural landscape: the boundaries, the interactions and the agricultural land consumption

Re-constructing transformation - International Workshop: design of a metropolitan center
Antonio Ganga, Céline Alleaume, Laura Font Gallart, Noémie Benezeth, Núria Bisbal Talló, Simone Cagliari, **tutor:** Alessandra Casu

26>30 april 2010 Bologna



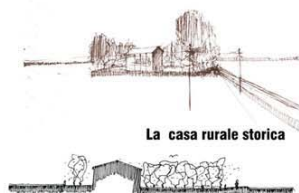
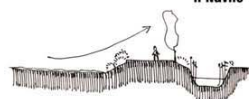
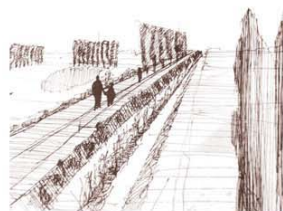
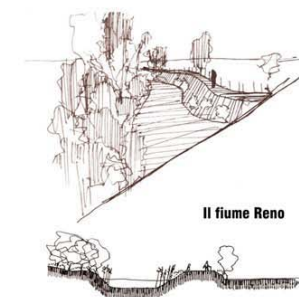
SCALA
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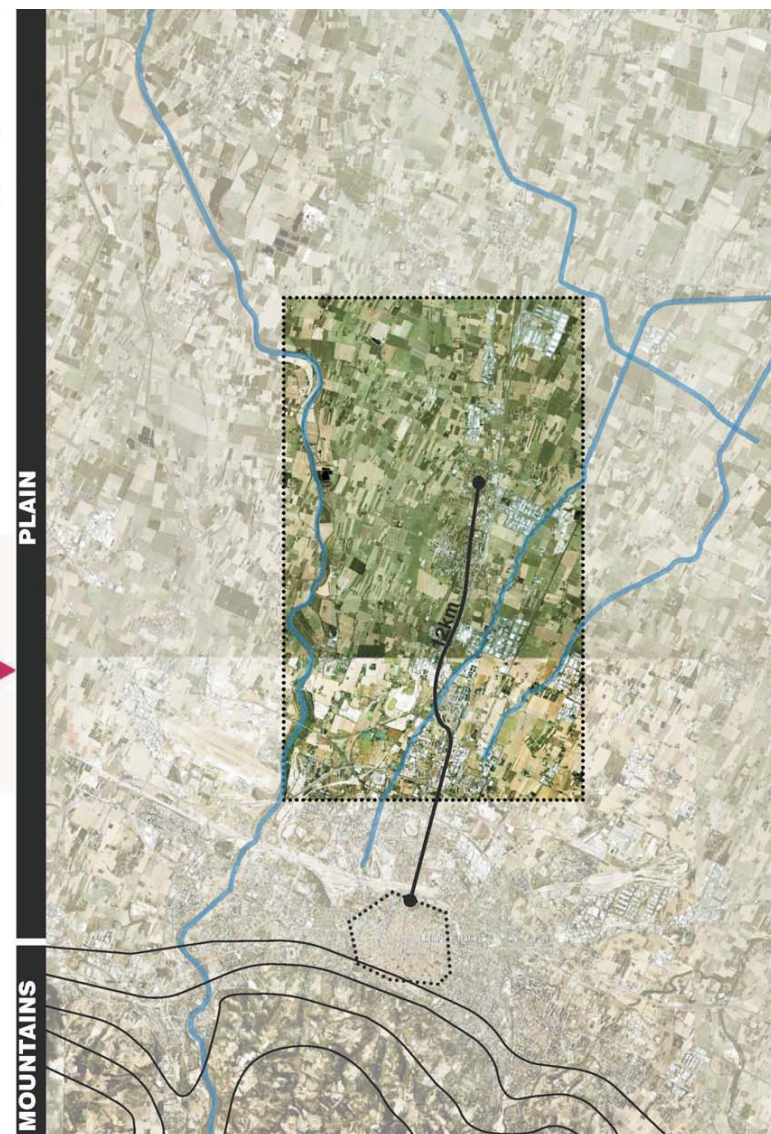
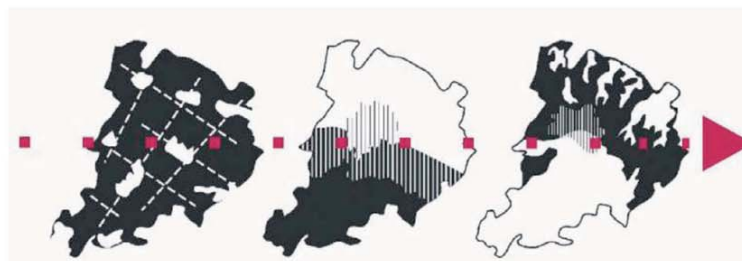


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- > **Strong edges (both natural and artificial) mark the territory along the North-South direction, towards Bologna: rivers & channels, the railways, highway, via Galliera...**
- > **The ancient Roman grid helped to excavate the channels and to design the agricultural landscape**
- > **The urbanization developed according to the track of via Galliera and of the railway**
- > **Most connections run from North to South and not from West to East, while most of the commuters travel along this direction**
- > **Funo seems to have no center, no identity but natural and historical signs in the landscape**





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> **The remaining traces of the historical landscape could disappear under the sprawl of uncontrolled urban development**

> **Improving the quality of landscape and taking it into the urban fabric could help in re-centering the town and in designing its structure**

> **This structure could be a form of Landscape Urbanism, developing a network of connections among the different functions and parts of the town**

> **The network should be done of ecological, functional, and bioclimatic corridors, that run into urban from the countryside**

Funo, April, 26th, 2010

FUNO's NEWSLETTER THE GREEN INDEX FINGER Foto, consigli e news dal mondo delle piante

A travel across Funo

I lettori scrivono

Sono M. R. vi scrivo da Funo, in provincia di Bologna. Sono da diversi anni in pensione e passo la maggior parte del mio tempo tra il bocciodromo e il parco. Qualche giorno fa, approfittando di una bella giornata di sole, ho provato a raggiungere con la mia bicicletta il corso del Navile; che idea scellerata! Un'avventura tra il traffico, e per giunta non ne è valsa neanche la pena; le rive là dove esistono e non sono occupate da campi e capannoni, sono impraticabili, e anche se la vegetazione abbonda, il quadretto è assai triste, alla luce del fatto che il luogo potrebbe essere molto grazioso e divertente da attraversare, sia a piedi che in bicicletta!

Sono un agricoltore di Funo, e sto cominciando a pensare che i contadini, qui, non li vogliano più. Qualcuno mi sa dire perché?

Sono un cittadino che vive a Funo di Argelato, possiedo una coppia di splendidi cani (Alani) e mi trovo nella triste situazione di non poterli portare nel parco per il semplice fatto che è destinato alle sole famiglie con bambini. Sono quindi costretto a odiosi pellegrinaggi fuori dal paese, nonostante gli spazi presenti. Spero vivamente in un futuro migliore.

Un cinofilo



> Il corso del Navile, stretto da un lato dagli edifici e sull'altra sponda dai campi coltivati; salici e pioppi costeggiano le rive, testimonianza di una vegetazione ruderale ripresa in epoche successive.

> Il verde cittadino, con essenze "formali", la cui gestione semplice presenta una certa armonia tra verde privato e pubblico

> Nei pressi degli antichi edifici rurali, inseriti in un contesto agricolo intensivo orientato alle produzioni foraggere, sopravvivono angoli di vegetazione originaria, caratterizzati da una biodiversità maggiore delle aree circostanti

> Nell'area prospiciente la linea ferroviaria, il verde viene impiegato per realizzare barriere visive a servizio delle abitazioni.

> Il paesaggio agricolo, dominato dai seminativi destinati principalmente alla produzione di mangimi. Qua e là, resti di frangivento, retaggio di un modo di fare agricoltura che ha lasciato il passo agli impianti intensivi meccanizzati.

Workshop Polo Funo



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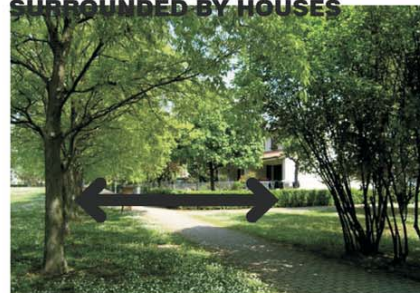
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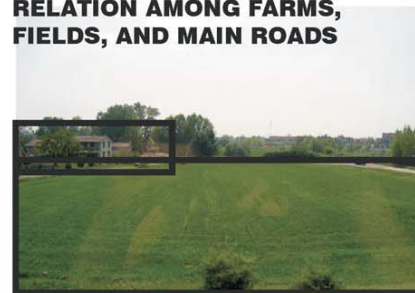
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Funo's newsletter
Funo's newsletter
Funo's newsletter

**BEFORE GETTING IN FUNO,
AN UNDEFINED AGRICULTURAL
SYSTEM**

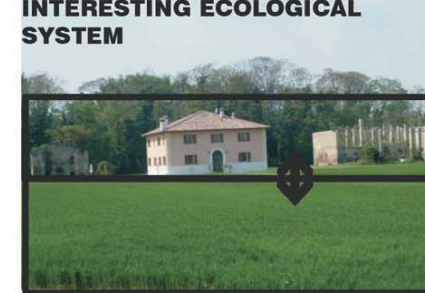
**THE HIDDEN PARK,
SURROUNDED BY HOUSES**



**_AGRICULTURAL SYSTEM :
RELATION AMONG FARMS,
FIELDS, AND MAIN ROADS**



**_FARMS AND RUINS, AN
INTERESTING ECOLOGICAL
SYSTEM**



**A MINERAL CITY, WITHOUT A
CHARACTERISTIC URBAN
LANDSCAPE**



**_POSSIBILITIES OF VEGETALS
CONTINUITY**



**_A DECORATING VEGETATION
INSIDE THE CENTERGROSS**



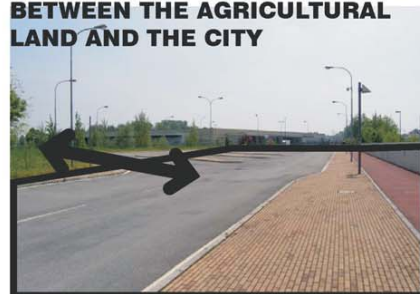
**_THE LACK OF BIOLOGIC
CONNECTION INSIDE
INDUSTRIAL AREA**



**WHICH HIDE THE VEGETATION
SYSTEM**



**_A DIFFICULT CONNECTION
BETWEEN THE AGRICULTURAL
LAND AND THE CITY**



**_AN INTERESTING VEGETATION
TO DEVELOP**



**_PUNCTUAL VEGETATION INSIDE
INDUSTRIAL AREA**



Workshop Polo Funo

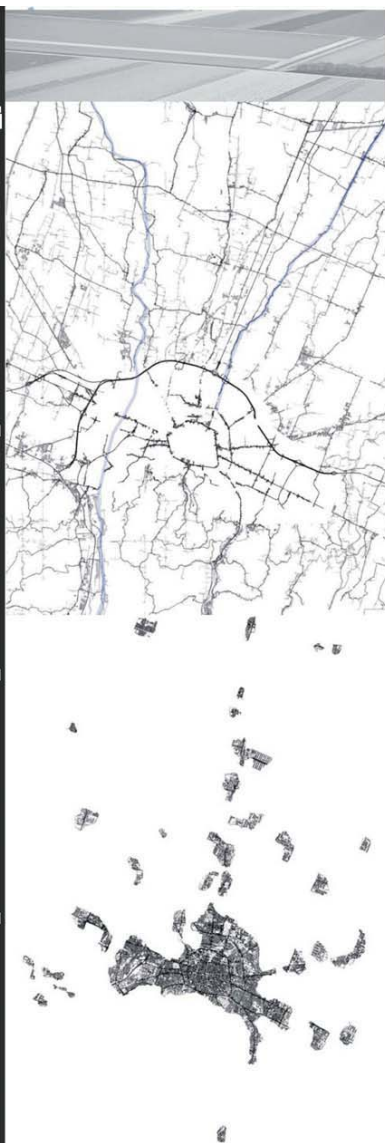


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MATRIX

Agrarian territory

LINES

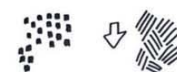
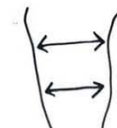
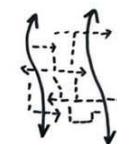
Natural lines / Artificial Lines

- 1 To take advantage of the nature
Historical lines to **structure the territory**
- 2 To improve **relations** among them
- 3 To improve and work with **surroundings** and limits

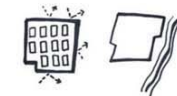
SHAPES

Urban Zone

- 4 To integrate the **free spaces** of the city in the natural structure of the territory and to project the city growth with this items
- 5 To densify the city, to preserve it and **avoid consuming territory**
- 6 To work on the formation of a **central place**, to structure the city and to promote the identity of citizens



URBAN CENTER



TAXI 24h. Te lleva del bar a casa

Offeree assessor of bread to domicile (Giulio'sbakery)

Se busca arquitecto estructurista para arreglar casa

THE IDENTITY OF FUNO
We give the condolence to the population of funo, and wait to meet again .

CLINICA OMEOPATICA
l'escopinya
especializada en tratamientos de alergias.



SUPER FAST
Empresa de transporte
Bolonya-Ferrara

There has got lost a child who answer to Aleix's name. If you find him call to 0 0 3 2 5 4 3 8 7 2 1

Country house is looked in an agreeable environment near to Bologna

Conejo macho busca manera de pasar al otro rio para conocer a coneja hembra

Comparto cotxe para ir de Fumo al Center Gross los dias laborables. Telf.9835983598

hombre soltero busca vecinas para poder pedirles sal.

Bicycle is sold almost newly



Workshop Polo Fumo



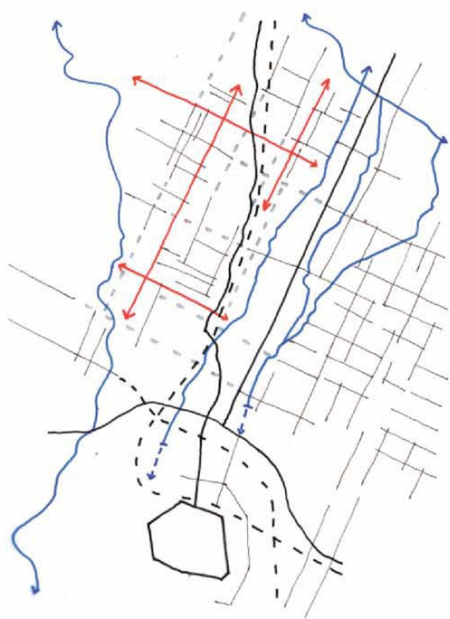
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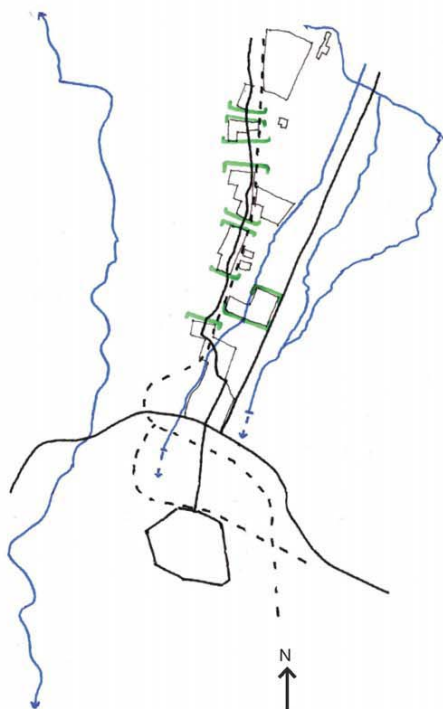
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THE MAIN PRINCIPLES

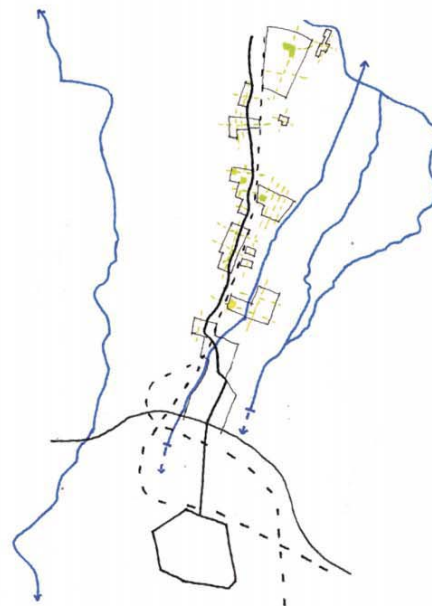
CONNECTION FOLLOWING THE GRID



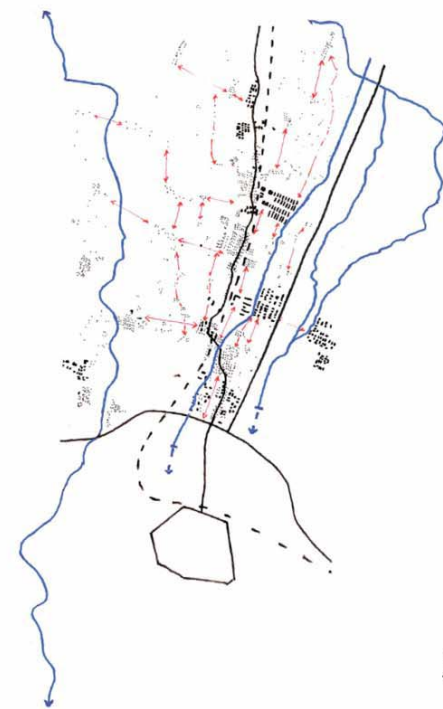
A RHYTHMIC ORGANISATION: ECOLOGICAL CORRIDORS, INTO THE URBANISATION



ECOLOGICAL CORRIDORS INSIDE THE URBAN SYSTEM



CONNECTION AMONG URBAN FRAGMENTS, CROSSING THE AGRICULTURAL LAND





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GENERAL MAP OF INTENTIONS

1st STRATEGY (ecology)

- > 1st choice: environmental corridors that can cross the railway and allow the maintenance of ecological processes in the whole system by continuity, helping the town “breathe”, and controlling the forms of urban growth
- > 2nd choice: rhythm in vegetation to design urban by nature
- > 3rd choice: connection among urban parks and landscape, by permeability and porosity

2nd STRATEGY (history)

- > 1st choice: restoration of some arcs in the ancient network of channels, to help vegetation and plantation and design paths
- > 2nd choice: reuse of the Roman grid to guide the plantation and design the itineraries
- > 3rd choice: connection to ancient rural houses, and provide new public places along the ways to historical places (even in their names: luogo, luoghetto, luogo grande...)

3rd STRATEGY (functions)

- > 1st choice: distinction among itineraries, according to the different speeds
- > 2nd choice: use of paths to rediscover nature, landscape, and historical identity
- > 3rd choice: use of vegetation to give shade on the path, to break winter winds, and to canalize summer winds for having fresher air



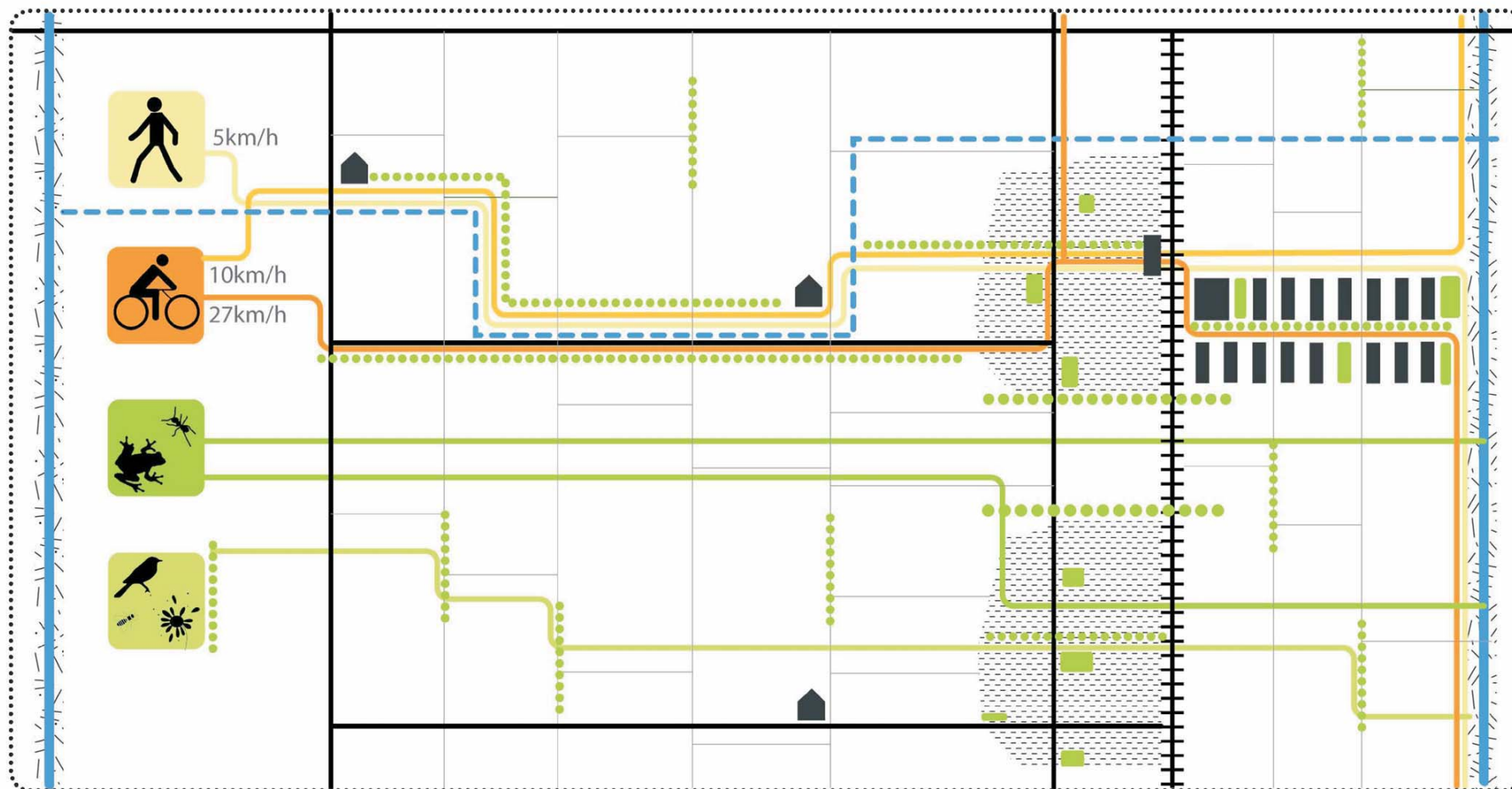


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PRINCIPLES SKETCH



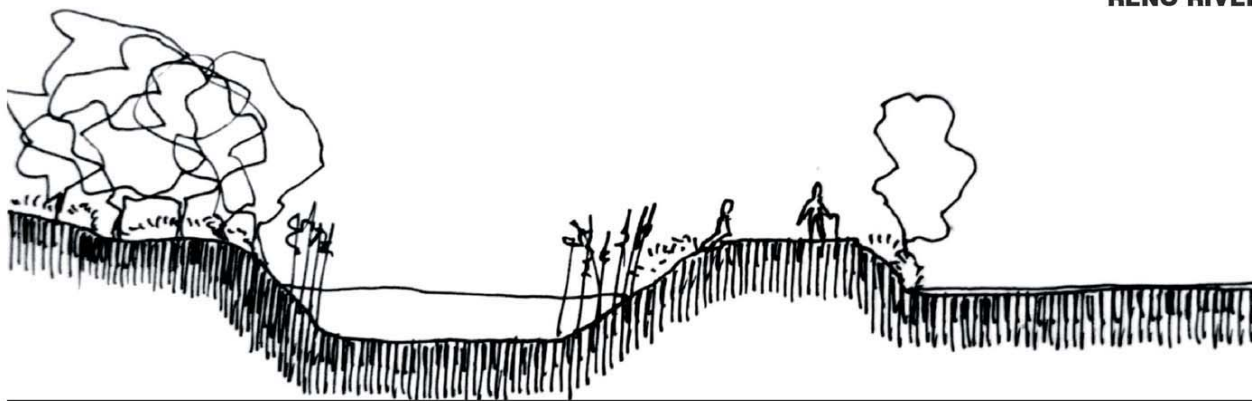


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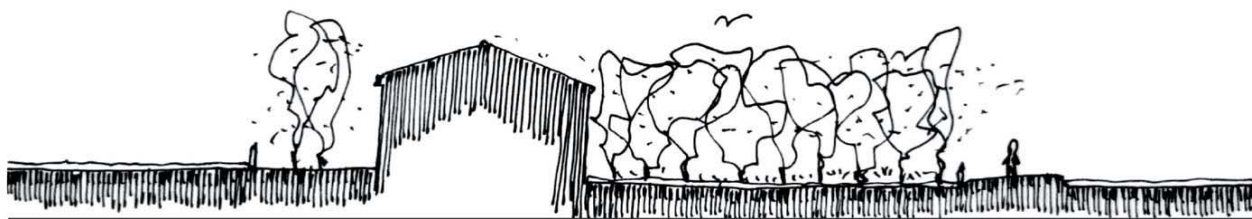
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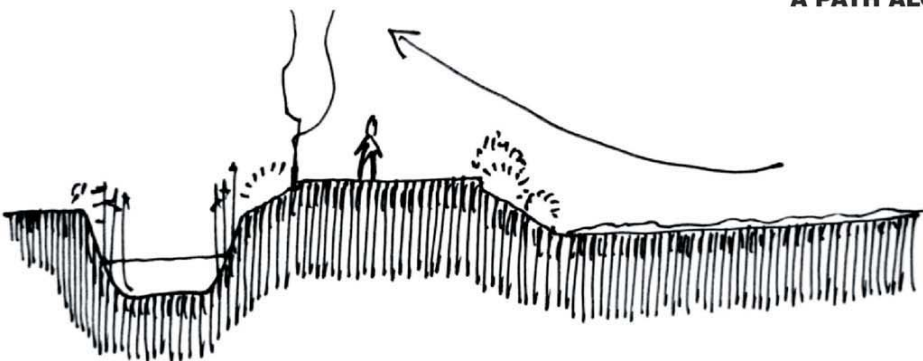
RENO RIVER



FARMS, SYMBOL OF THE PLAIN



A PATH ALONG THE NAVILE CHANNEL



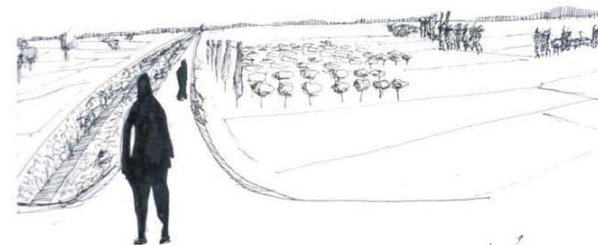
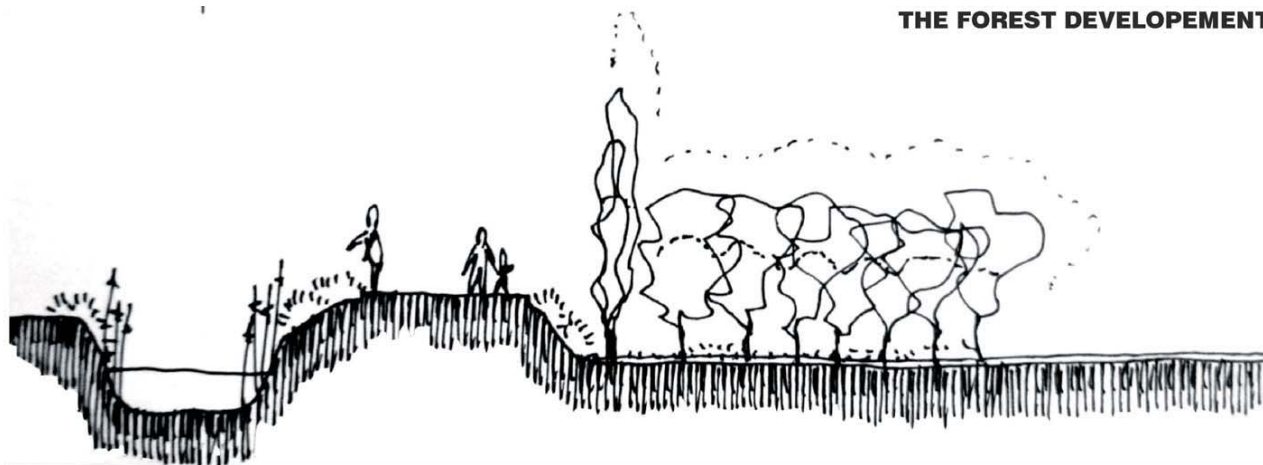


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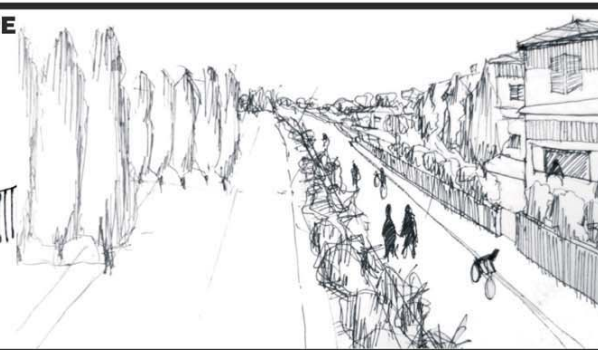
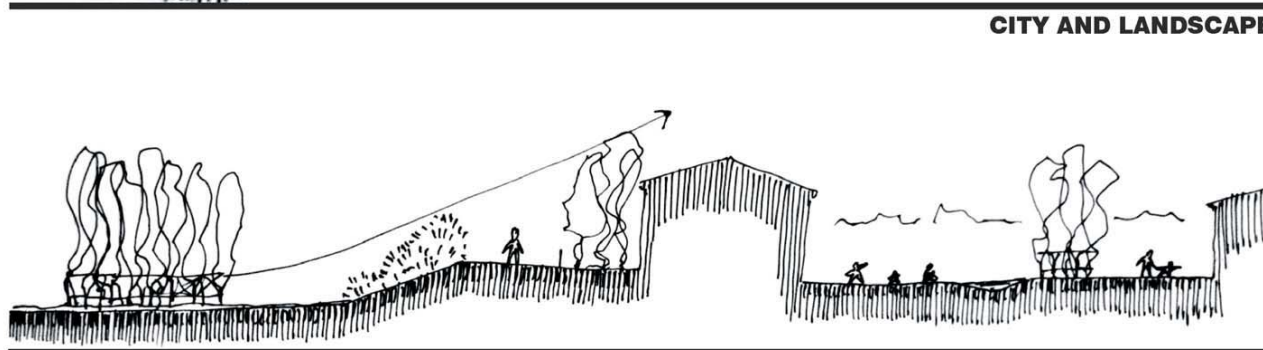
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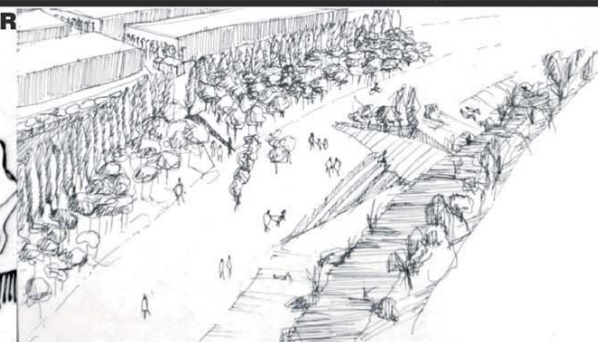
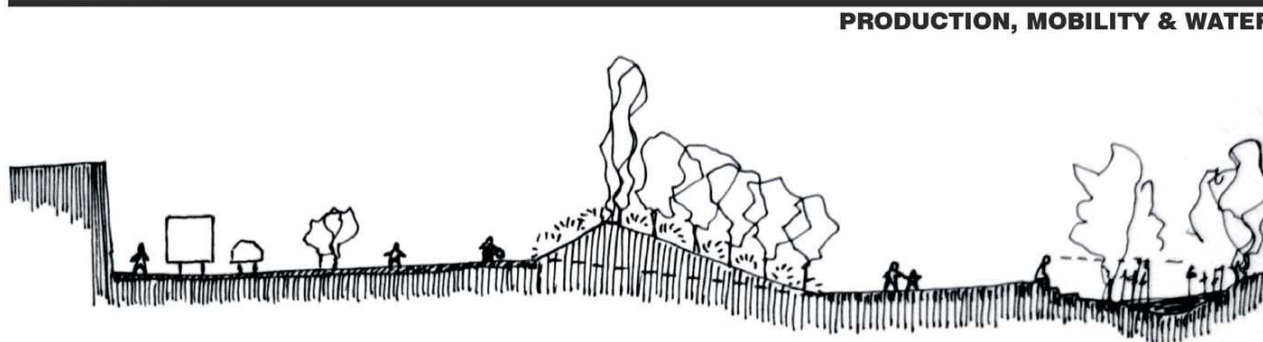
THE FOREST DEVELOPEMENT



CITY AND LANDSCAPE



PRODUCTION, MOBILITY & WATER



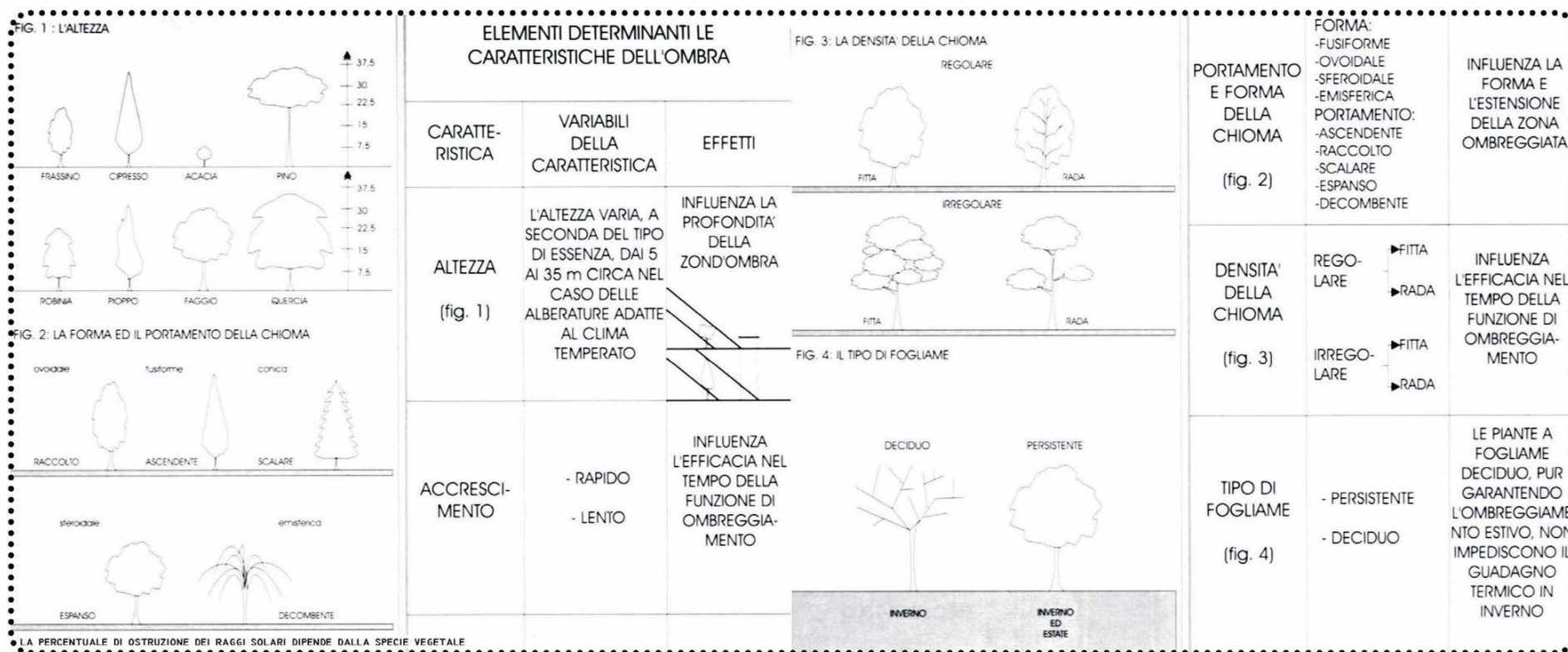


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VEGETATION & WIND



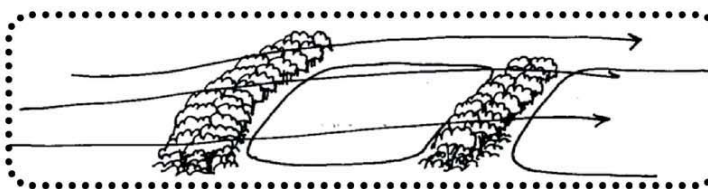
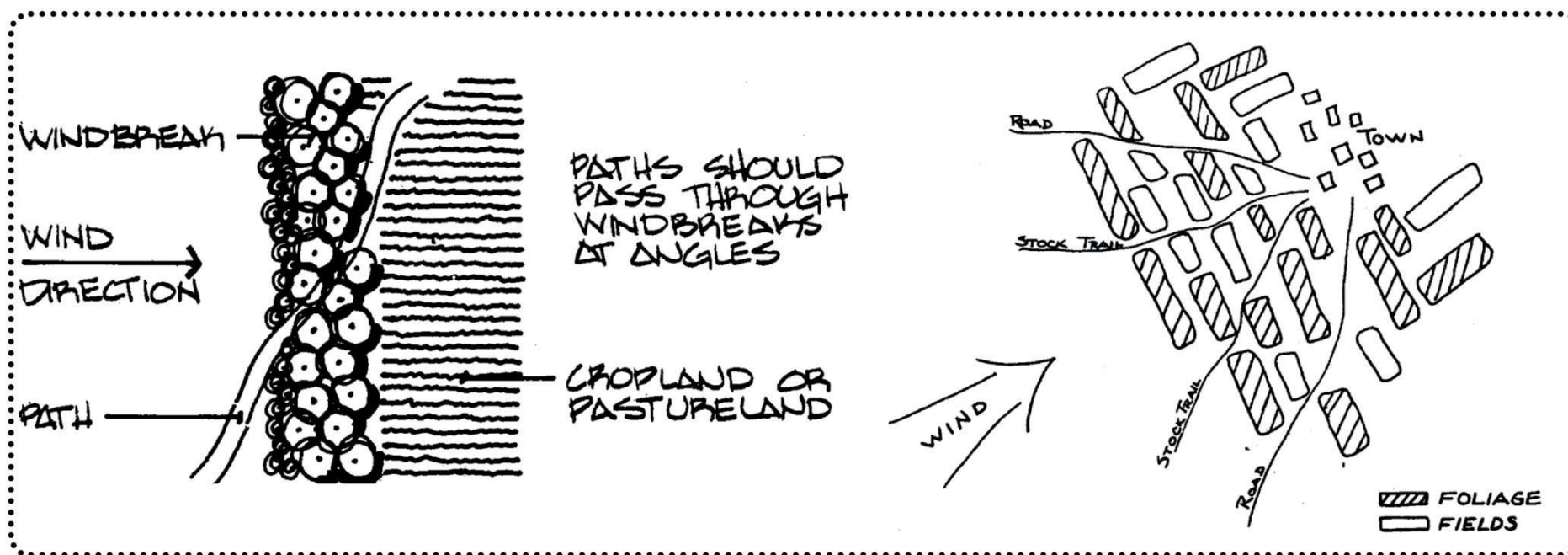


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WIND DYNAMICS STUDIES



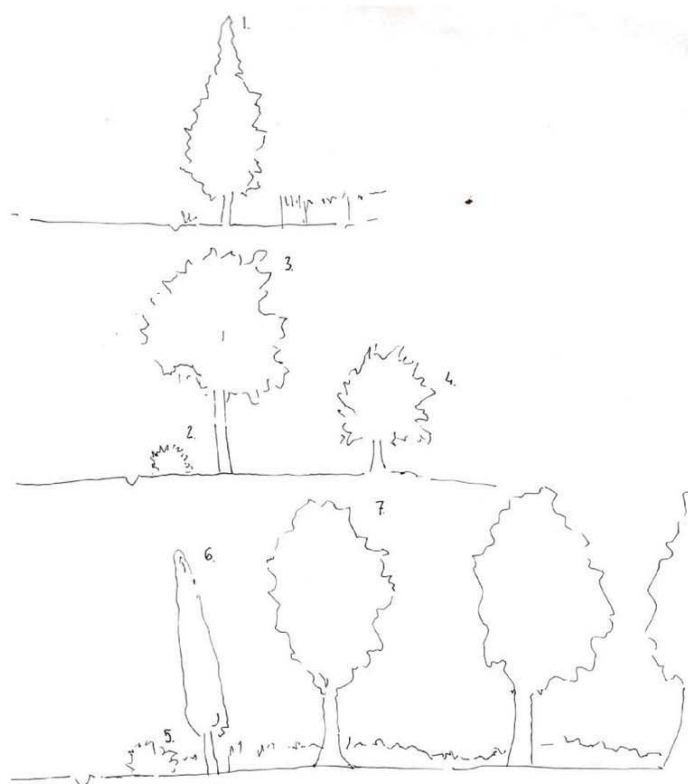


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PLANTS LIST



1. CUPRESSUS ARIZONICA
2. BUXUS SEMPERVIRENS
3. QUERCUS ROBUR
4. CRATAEGUS MONOGYNA
5. CUPRESSUS SEMPERVIRENS
6. CUPRESSUS SEMPERVIRENS
7. QUERCUS PETRAE

ARBOREO

- Acero montano (*Acer pseudoplatanus*)
- Carpino bianco (*Carpinus betulus*)
- Castagno (*Castanea sativa*)
- Farnia (*Quercus robur*)
- Frassino (*Fraxinus excelsior*)
- Olmo campestre (*Ulmus minor*)
- Noce (*Juglans regia*)
- Pino silvestre (*Pinus sylvestris*)
- Platano (*Platanus spp.*)
- Pioppo bianco (*Populus alba*)
- Pioppo nero (*Populus nigra*)
- Acero campestre (*Acer campestre*)
- Acero riccio (*Acer platanoides*)
- Betulla (*Betula pendula*)
- Cerro (*Quercus cerris*)
- Ciavardello (*Sorbus torminalis*)
- Ciliegio selvatico (*Prunus avium*)
- Gelso bianco (*Morus alba*)
- Gelso nero (*Morus nigra*)
- Ontano nero (*Alnus glutinosa*)
- Pado (*Prunus padus*)
- Pioppo tremolo (*Populus tremula*)
- Salice bianco (*Salix alba*)
- Salice fragile (*Salix fragilis*)
- Sorbo comune (*Sorbus domestica*)
- Tiglio selvatico (*Tilia cordata*)

ARBUSTIVO

- Biancospino (*Crataegus monogyna*)
- Corniolo (*Cornus mas*)
- Melo selvatico (*Malus sylvestris*)
- Nocciolo (*Corylus avellana*)
- Pallone di maggio (*Viburnum opalus*)
- Prugnolo (*Prunus spinosa*)
- Orniello (*Fraxinus ornus*)
- Salice cenerino (*Salix cinerea*)
- Salicone (*Salix caprea*)
- Sambuco (*Sambucus nigra*)
- Viburno (*Viburnum lantana*)
- Bosso (*Buxus sempervirens*)
- Brugo (*Calluna vulgaris*)
- Crespino (*Berberis vulgaris*)
- Frangola (*Frangula alnus*)
- Fusaggine (*Euonymus europaeus*)
- Ginepro comune (*Juniperus communis*)
- Ginestra dei carbonai (*Sarothamnus scoparius*)
- Ligustro (*Ligustrum vulgare*)
- Luppolo (*Humulus lupulus*)
- Pero corvino (*Amelanchier ovalis*)
- Rosa canina (*Rosa canina*)
- Rovo (*Rubus idaeus*)
- Salice rosso (*Salix purpurea*)
- Sanguinello (*Cornus sanguinea*)
- Spin-cervino (*Ramnus catharticus*)



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New ways of using public open space: valorization of Funo's existing public open space and the creation

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REGIONAL LEVEL CONNECTIVITIES

- Connecting in order to create a territory for residents and commuters
- Connecting in order to create a territory rich of biodiversity, requalified natural spaces, new services and facilities, economic activities
- Connecting by creating ecological corridors
- Integrating the main road in a natural spaces system



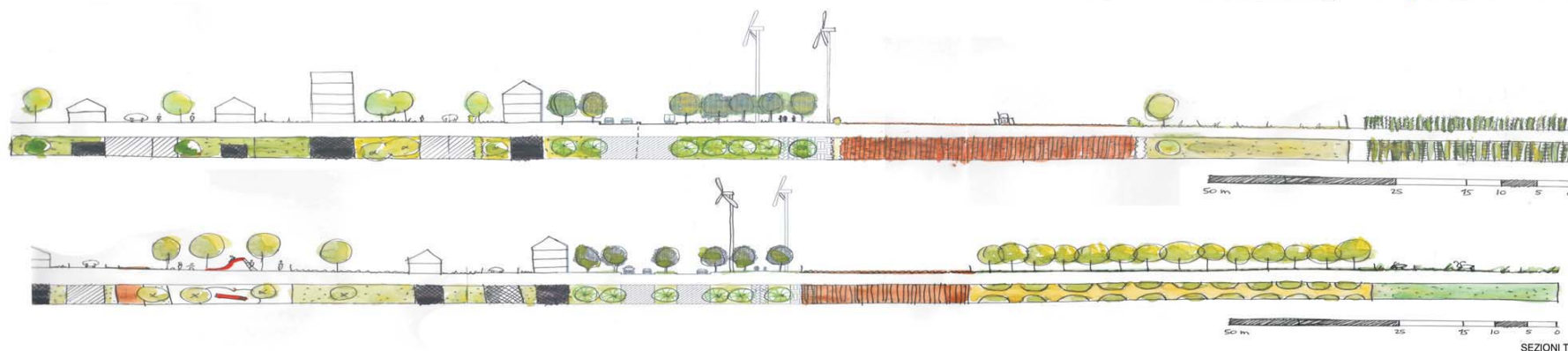
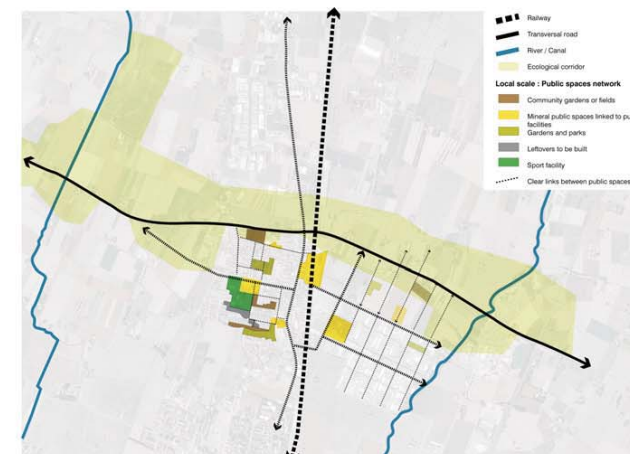
INTERMEDIATE LEVEL CENTRALITIES

- Creating a system of centralities in order to reinforce links between urban and rural
- Linking the two sides of the railway tracks
- Creating a profile of windmills to design a new skyline



LOCAL LEVEL IDENTITIES

- Creating places of distinction by opposition to anywhere spaces
- Giving a specific identity to each public open space (entertainment, sports, market, encounters)
- Creating a public spaces network and producing walkable neighbourhoods
- Implementing a pedestrian-friendly approach by creating cyclist / pedestrian / vehicles shared streets
- Giving the priority to pedestrians and cyclists in order to ensure that Funo centre is stitched together



SEZIONI TERRITORIALI



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A SYSTEM OF PLACES FOR COMMUNITY

Connectivities, centralities, identities



Source : workshop presentation





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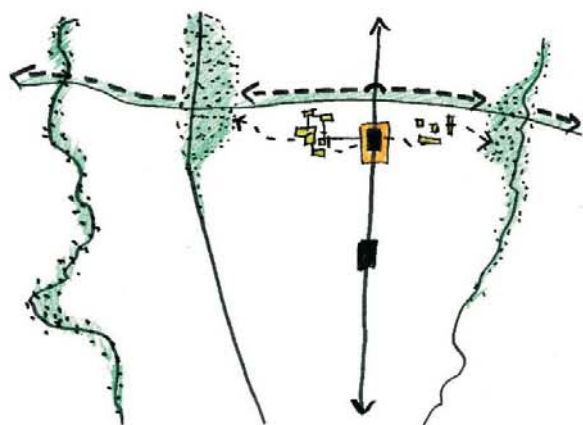
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Elodie Faure, Josep Maria Nogué Estradé, Picciaredda Luca, Roser Quer Castro, Sophie Viallettes, Stefano Dettori, **tutor:** Gilles Novarina, Charles Ambrosino, Natacha Seigneuret

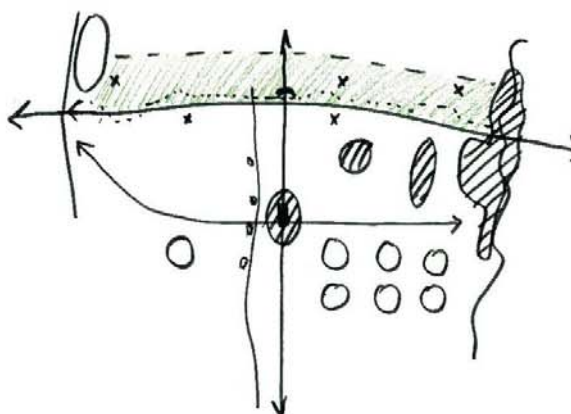
THREE SCALES

How to create connectivities, centralities and identities in Funo's existing open spaces in order to link them with the metropolitan area and to generate a new public open spaces system.

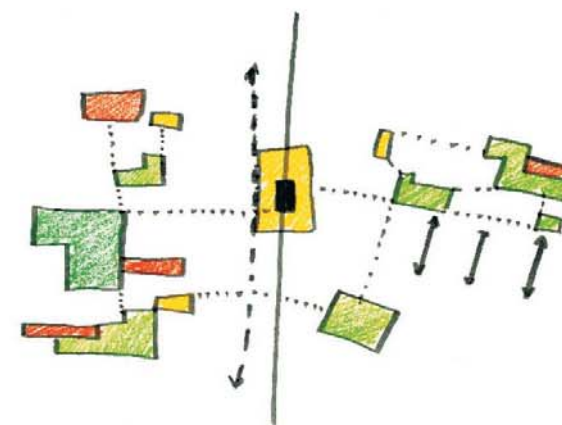
Three scales are identified : regional, intermediate, local, and the correlation of these scales creates a new system of places for the community.



REGIONAL



INTERMEDIATE



LOCAL



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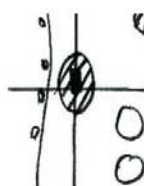
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STRATEGIES

Regional level



Intermediate level



Local level



CONNECTIVITIES

Connecting in order to create a territory for residents and commuters.

Connecting in order to create a territory rich of biodiversity, requalified natural spaces, new services and facilities, economic activities.

Connecting by creating ecological corridors.

Integrating the main road in a natural spaces system.

CENTRALITIES

Creating a system of centralities in order to reinforce links between urban and rural.

Linking the two sides of the railway tracks.

Creating a profile of windmills to design a new skyline.

IDENTITIES

Creating places of distinction by opposition to anywhere spaces.

Giving a specific identity to each public open space (entertainment, sports, market, encounters).

Creating a public spaces network and producing walkable neighbourhoods.

Implementing a pedestrian-friendly approach by creating cyclist / pedestrian / vehicles shared streets.

Giving the priority to pedestrians and cyclists in order to ensure that Funo centre is stitched together.



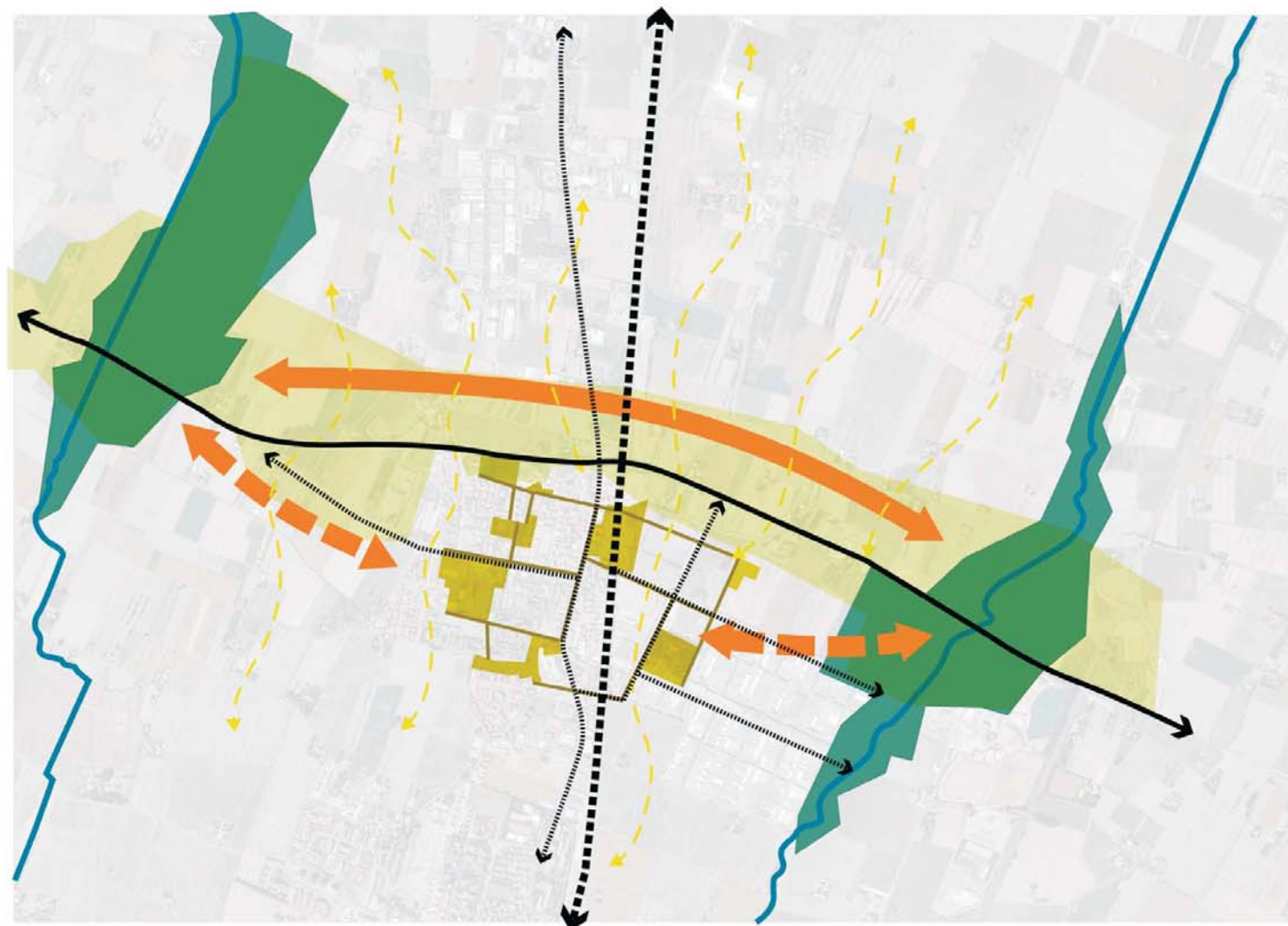
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REGIONAL LEVEL



Regional scale

-Relink the eight towns of **Unione Reno Galliera** with a grid system of roads and ways

-Create connections between river sides and ecological reserves and those to the urban system

-Create a large connection with ecological corridors declined in form of line corridor, sink zones, source zones and stepping stones

-Increase biodiversity and diversification of landscape

-Increase environmental quality

LEGEND

- Railway
- Transversal road
- River / Canal
- Ecological corridor

Regional scale : Territory links

- Ecological and biological reserves
- Urban public spaces
- Fast connexion between reserves
- Slow connexion between reserves and Funo
- Landscape paths



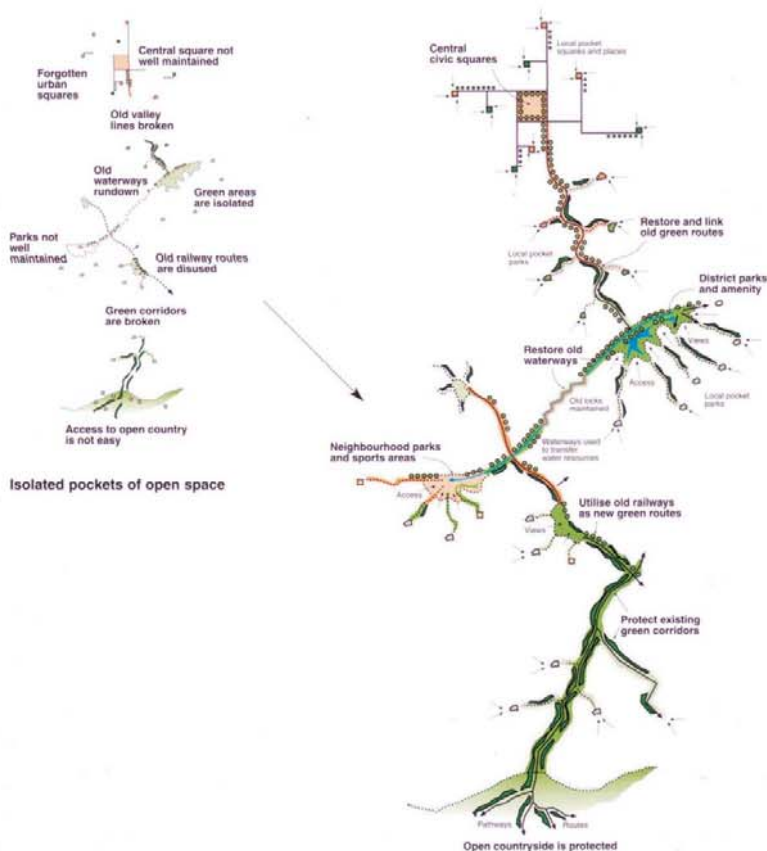
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REGIONAL LEVEL



Source : Le réseau des espaces ouverts - Foster



Source : Internet



Source : Brick Pit Ring (2005) - Durbach Block



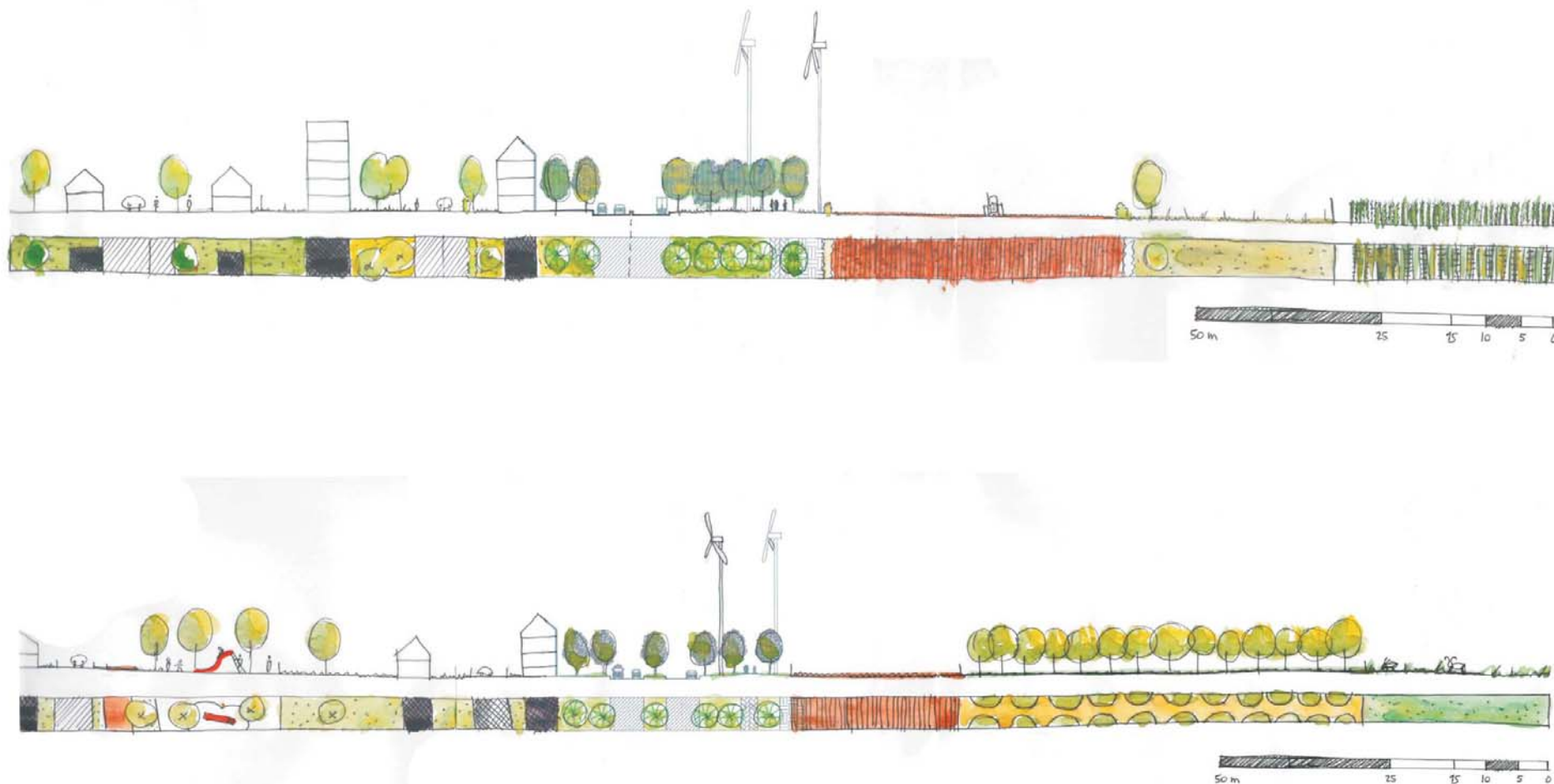
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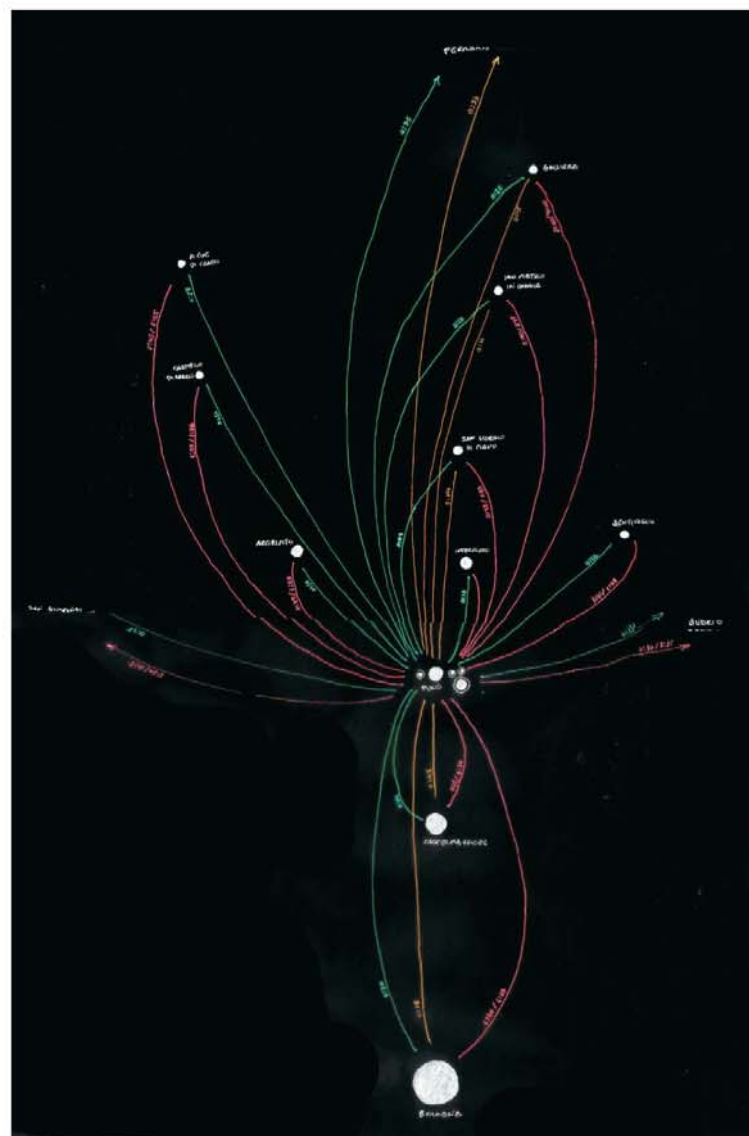
ECOLOGICAL CORRIDOR SECTIONS





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REGIONAL LEVEL





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INTERMEDIATE LEVEL



Intermediate scale

- Implant activities to reactivate public spaces : facilities, knowledge and culture, sport facilities...
- Move the the market to the station in order to link Funo with its future developments
- Connect the actual ARE and Navile river with an ecological corridor and urban open spaces system
- The ecological corridor sews the agriculture knowledge through the existant selfsellers farms and historical elements
- A new relation between agriculture and knowlege will guarantee the ecological corridor biodiversity
- Wind mills not only generate green energy but also give a new skyline to the landscape
- The new highway will pacify the transit in Via Transversale di Pianura which become a transition between urban and agricultural landscapes help to develop the new ecological corridor

LEGEND

- Railway
- Transversal road
- River / Canal
- Ecological corridor

Intermediate scale : Activity attractors

- Public facilities or services
- Commercial activities
- Landscape activities



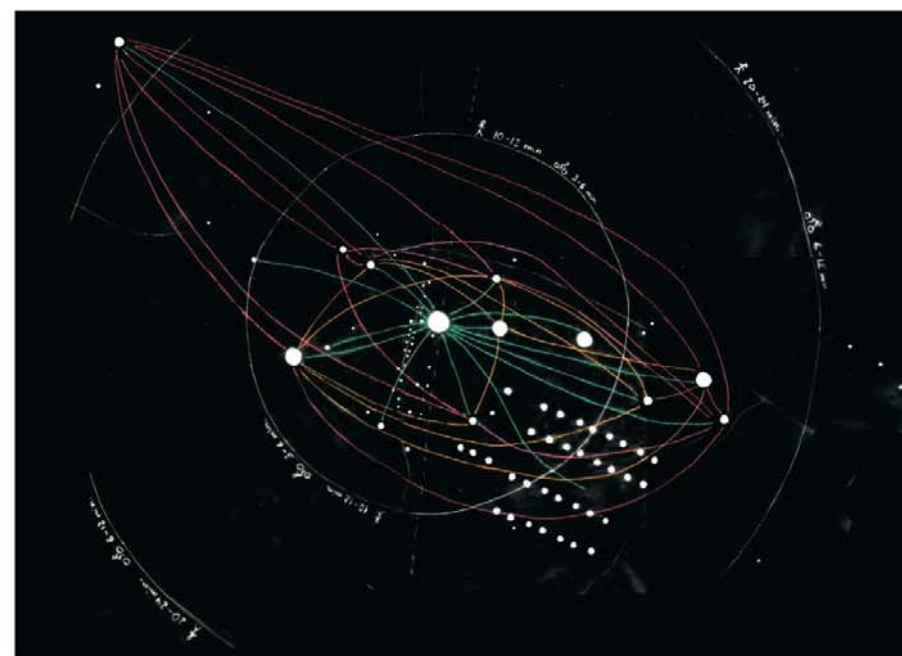
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INTERMEDIATE LEVEL



Source : internet



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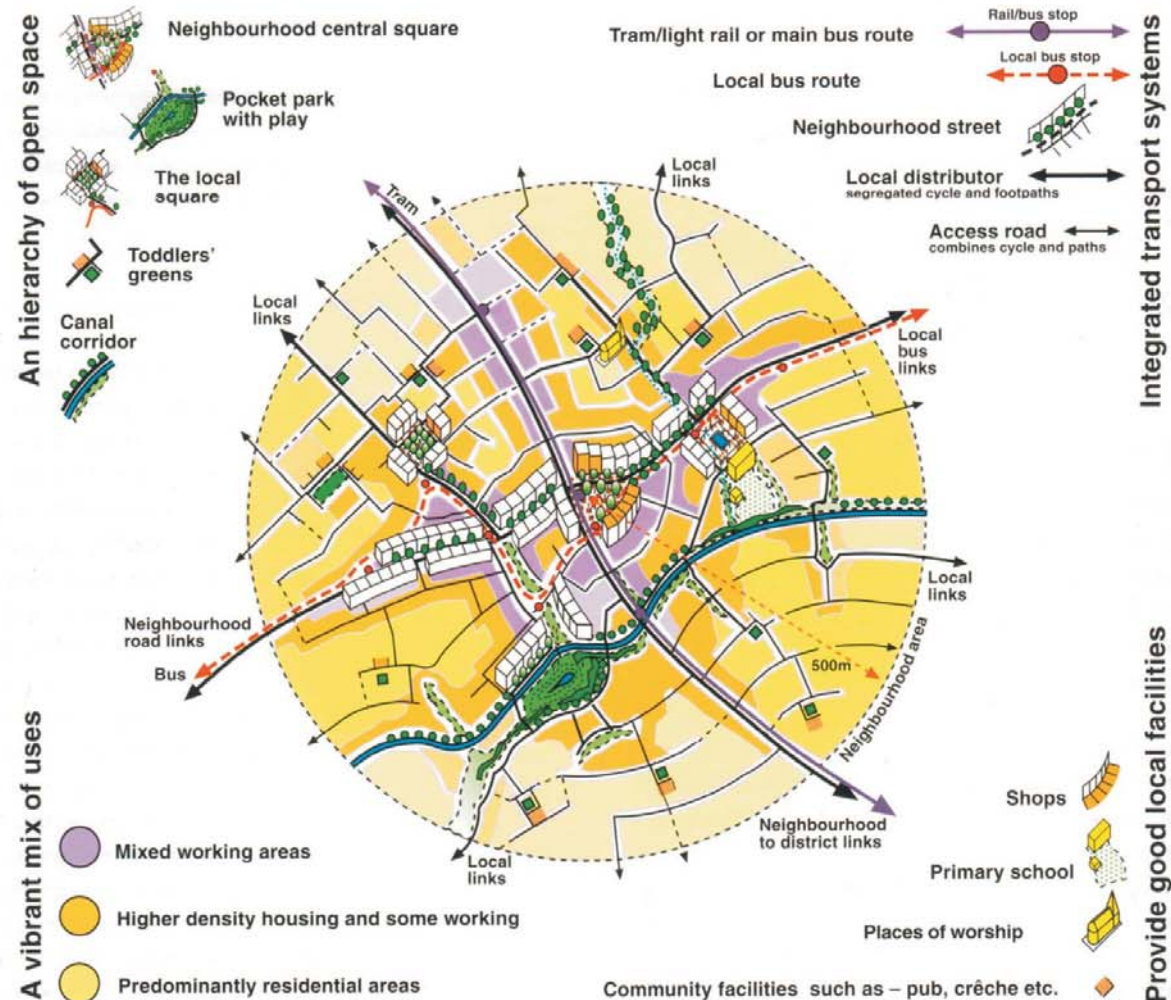
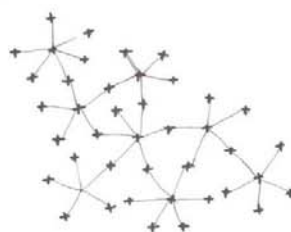
INTERMEDIATE LEVEL



Source : internet



Source : internet



Source : Vers une renaissance urbaine - Urban task Forces - Foster



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LOCAL LEVEL



Local scale

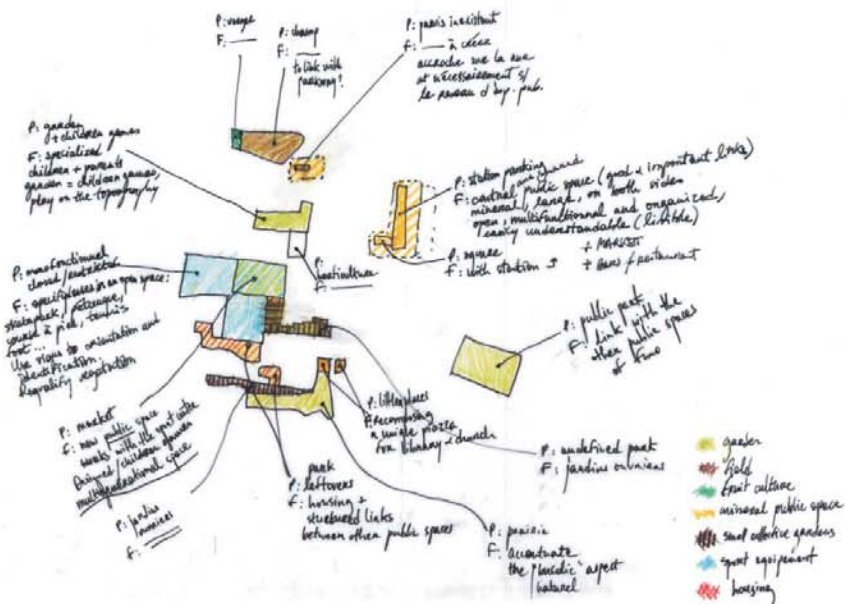
- Find each open space identity
- Specify the uses
- Generate an activity network (skate park, children games, exercises for old people, petanque, various types of vegetation...)
- Reduce the quantity of open public spaces by adding new facilities and services and by building some of the existing public spaces
- Requalify and link : the street that connect the urban spaces will change its section to give more importance to pedestrians and bicycles
- Via Galliera will change from a road to an urban street. It will also link the little streets with the new designed Via Transversale di Pianura
- Modify the parking in both sides of the train station to a large piazza that surrounds it, and also as a tool to pass over or under the train tracks
- Plan the open spaces to increase the environmental comfort, planning more settlement, permeable material, and mitigation of the micro climate through ventilation and system of protection from the sun and from the roumor
- Increase the perception of safety and security of open spaces

LEGEND

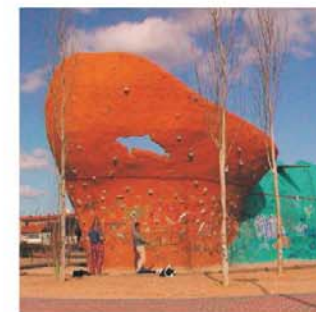
- Railway
 - Transversal road
 - River / Canal
 - Ecological corridor
- Local scale : Public spaces network
- Community gardens or fields
 - Mineral public spaces linked to public facilities
 - Gardens and parks
 - Leftovers to be built
 - Sport facility
 - ... Clear links between public spaces



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[illegible]

Source of the pictures: internet





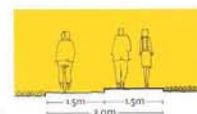
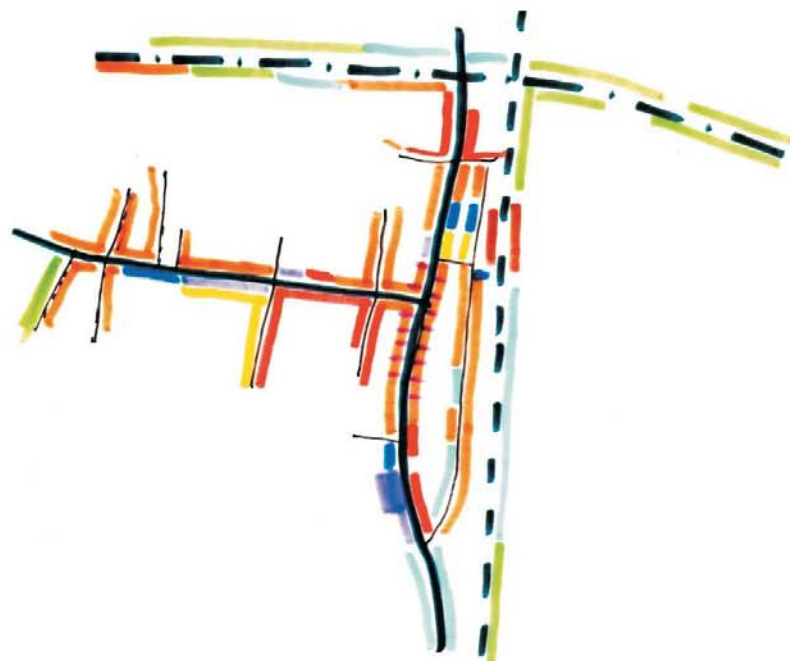
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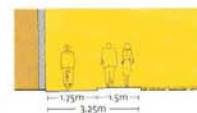
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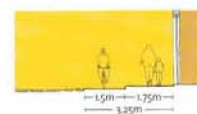
LOCAL LEVEL



Kerb segregated facility open on both sides



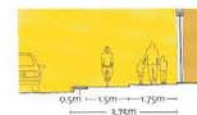
Kerb segregated facility bounded on cycle track side



Kerb segregated facility bounded on footpath side



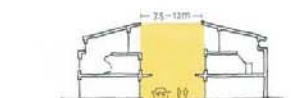
Kerb segregated facility bounded on both sides



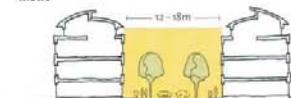
Kerb segregated facility bounded on footpath side with verge between cycle track and adjacent carriageway

Minimum dimensions for shared cyclist / pedestrian routes, segregated by a change in level

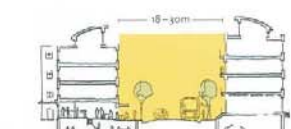
Source :
Aménagement pour piétons et cycles
Urban Design Compendium



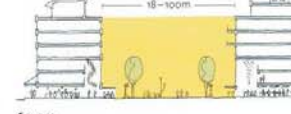
Mews



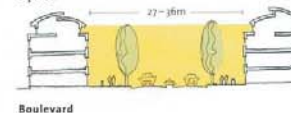
Residential street



High street



Square



Boulevard

Source : Typologie des voies
Urban Design Compendium



Source : Typologie des voies
Urban Design Compendium



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LOCAL LEVEL



Source : Spazi pubblici, Parchi urbani - Jacobo Krauel



Source : Spazi pubblici, Parchi urbani - Jacobo Krauel



Source : Spazi pubblici, Parchi urbani - Jacobo Krauel



Source : Spazi pubblici, Parchi urbani - Jacobo Krauel



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MASTERPLAN

