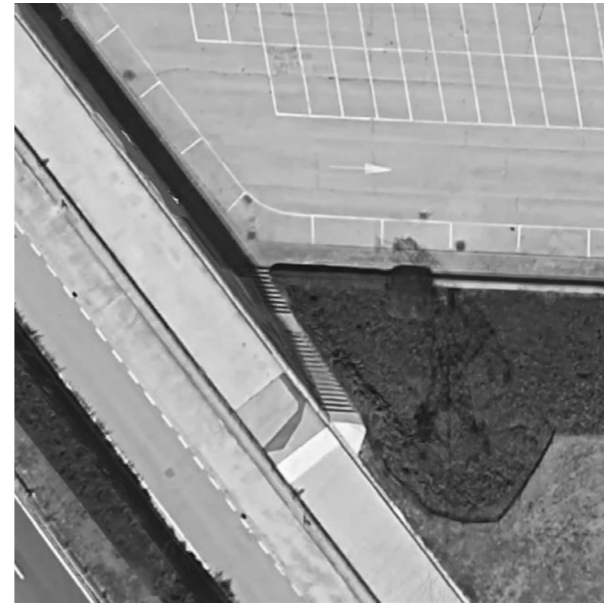




- Ecology cluster -



-Social device -



- Connective system -



Country / City Italy / Trento
University / School University of Trento / DICAM / School of Architecture and Building Engineering
Academic year 2017 / 2018
Title of the project BEYOND WATER PROCESS
Authors Giacomo Codroico, Elena Beatrice Pizzolato

TECHNICAL DOSSIER

Title of the project	BEYOND WATER PROCESS
Authors	Giacomo Codroico, Elena Beatrice Pizzolato
Title of the course	Landscape architecture
Academic year	2017 / 2018
Teaching Staff	Prof. Sara Favargiotti, Prof. Mosè Ricci
Department/Section/Program of belonging	Department of Civil, Environmental and Mechanical Engineering / School of Architecture and Building Engineering
University/School	University of Trento / DICAM / School of Architecture and Building Engineering



Written statement, short description of the project in English, no more than 250 words

In our cities usually there are single-function infrastructures, imagining new forms and features for those infrastructures is our challenge.

The industrial area in the south of Trento (IT) used to be a highly productive area but in the Nineties, it was partially converted into a sport district. The urban landscape is characterized by sport facilities, parking areas, industrial factories and concrete impermeable surfaces that limited the natural features and made impossible any social activity. Here is located an important infrastructure able to purify the city's water.

The project proposed by the local administration to build a new water purifier offers an opportunity to rethink and reuse the former plant into an urban ecological device for rainwater collection and distribution, for urban adaptation to climate change and lastly for reducing the impermeable surfaces.

The project proposes to use the rain water to create an urban-ecological landscape where people will be able to find a place to go to enjoy nature, which will be the same place where excessive water will be collect, stored, purified and slowly released.

This blue and green infrastructure is composed by a spinal column in which water flows; water generates spaces through many different devices, able to grow the natural variety and the social activities. It is a tentacular design, expandable to connect new areas ad functions, able to adapt to the context. In this perspective the water management infrastructure is not a problem but an opportunity to create a resilient tool able to generate new ecological and social spaces for the future changes.

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CLIMATE CHANGE AGAIN

11th International Biennial Landscape Barcelona

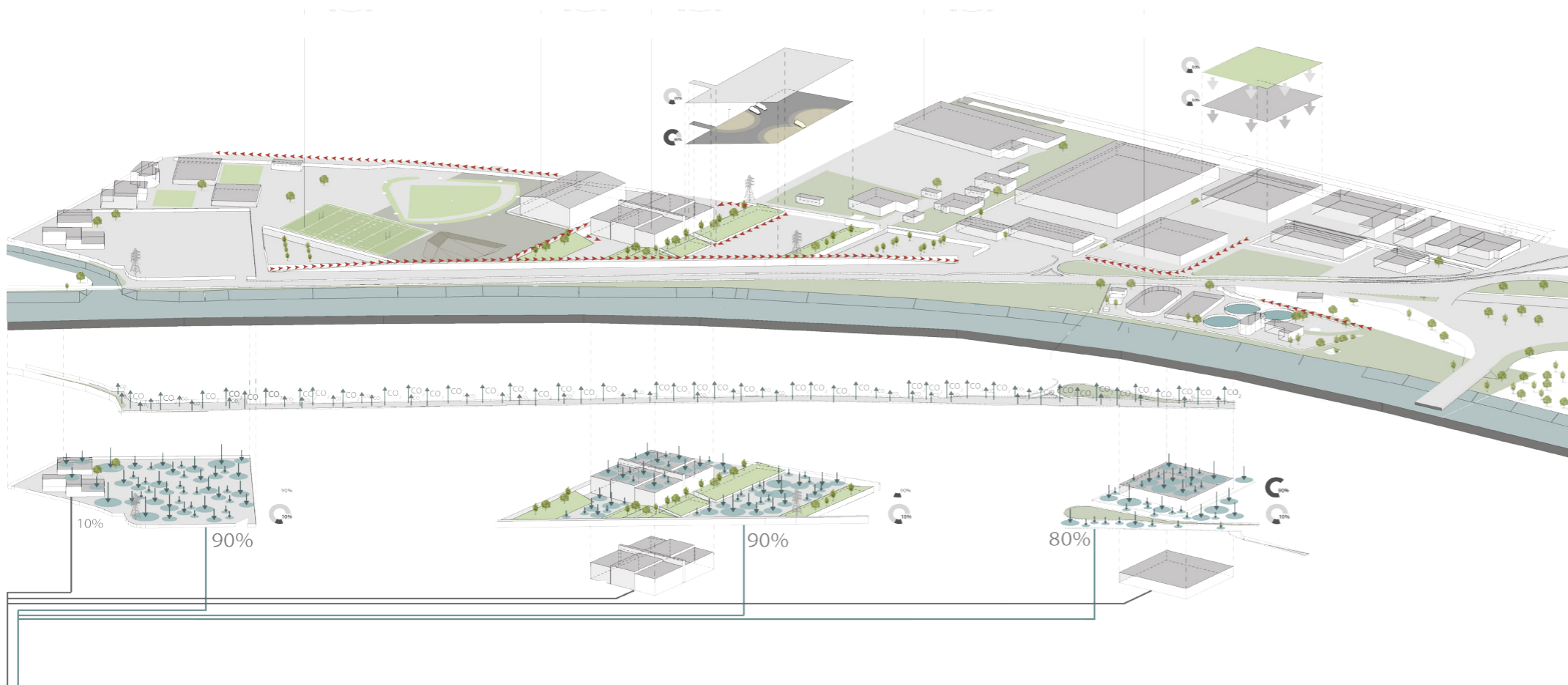
Barcelona September 2020

SCHOOL PRIZE

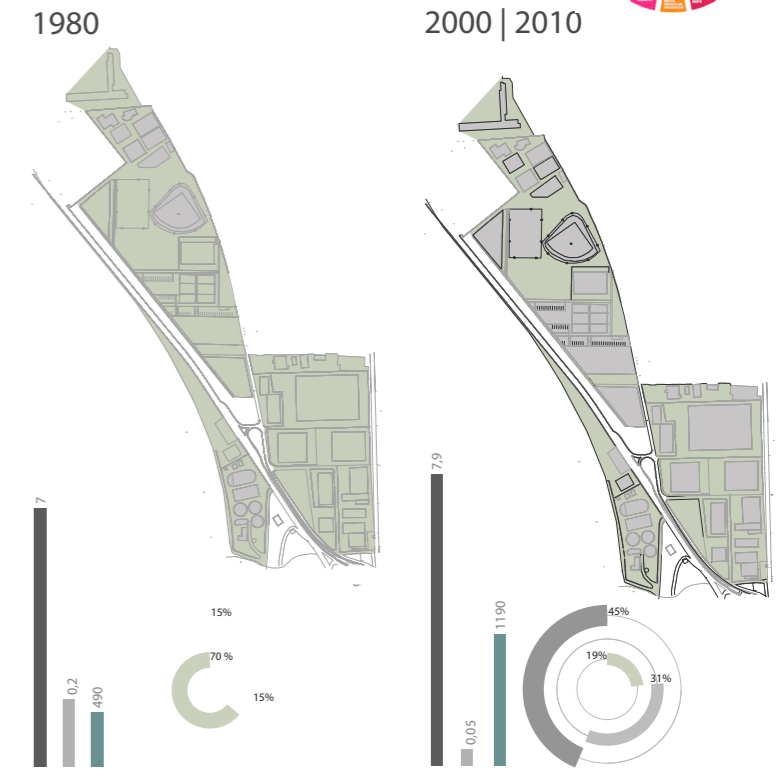
waterproof context



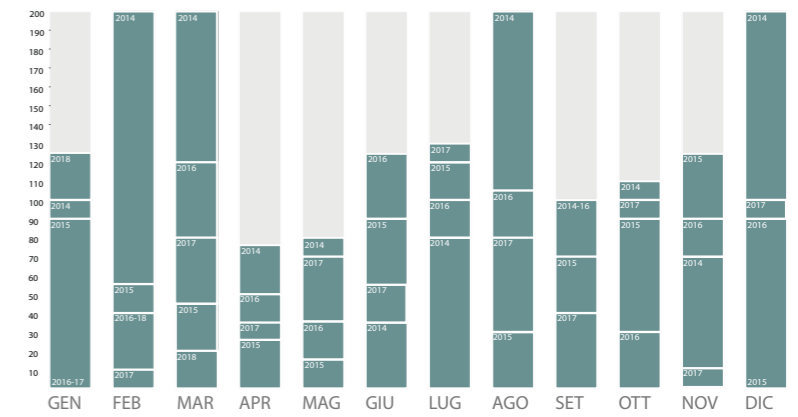
■ Permeable areas
 ■ expansion areas for water
 ■ shallow waters
 ■ waterproof areas



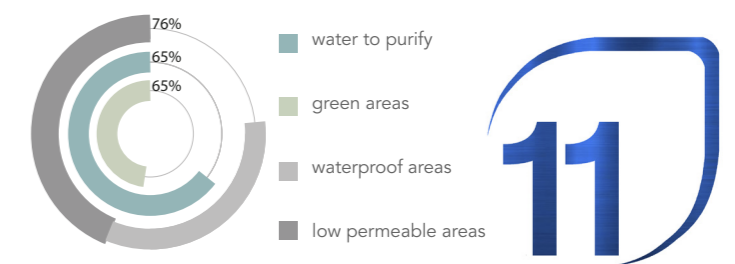
Urban evolution

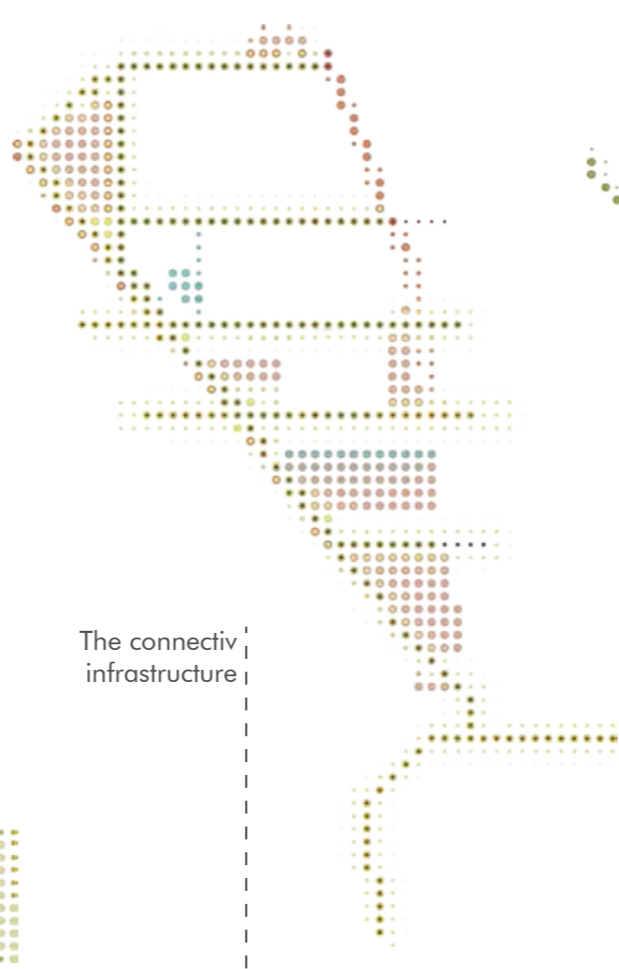
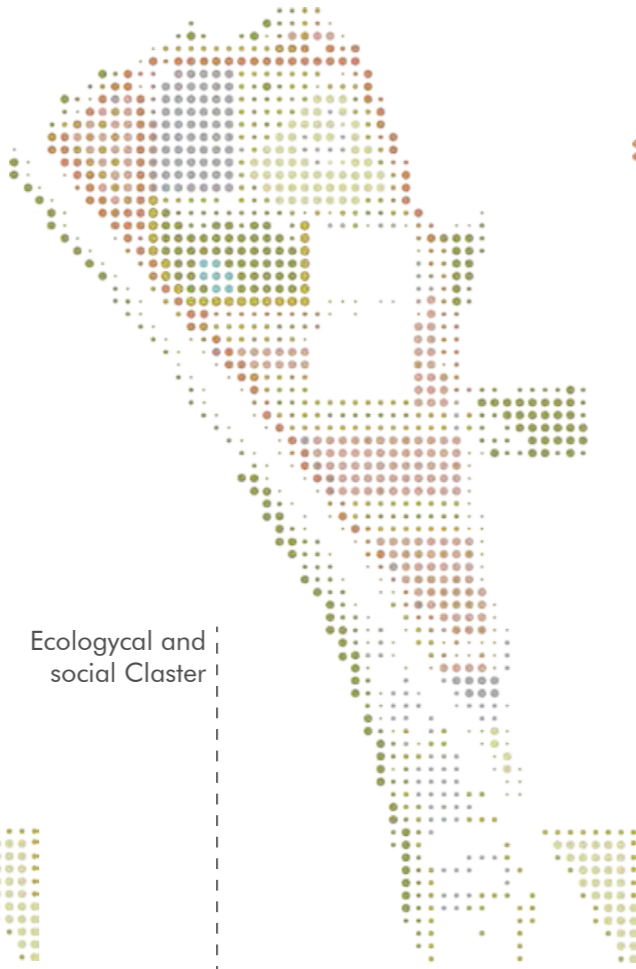
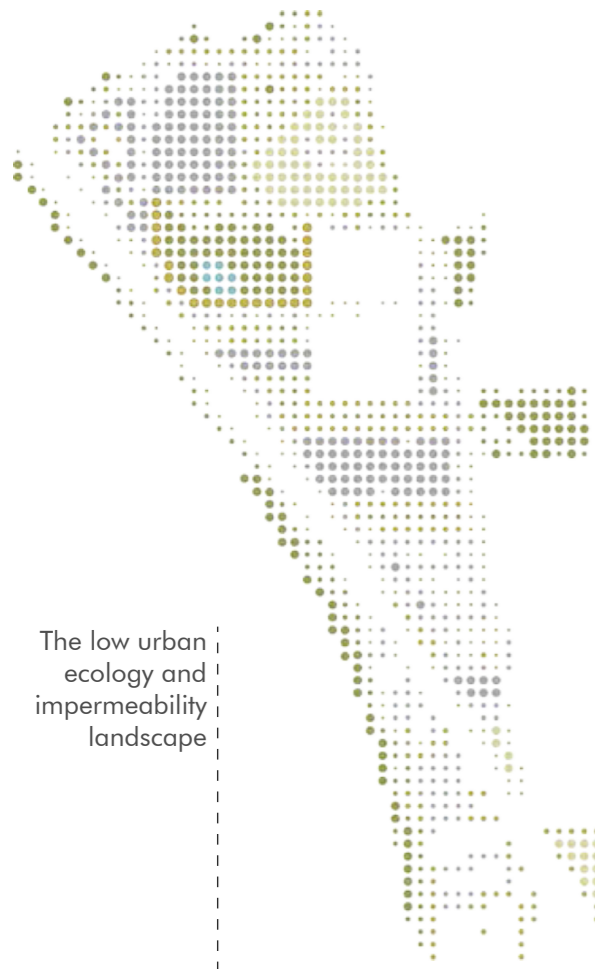


Rain trend



The urban landscape is characterized by sport facilities, parking areas, industrial factories and concrete impermeable surfaces, those areas have grown a lot in the last thirty years and if the trend continues the natural landscape will disappear. The climate change has influenced the rain trend, it is raining less but in a harder way. In a few minutes it could rain the all month water.





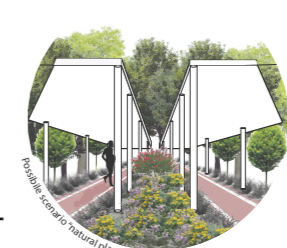
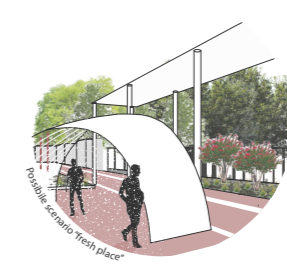
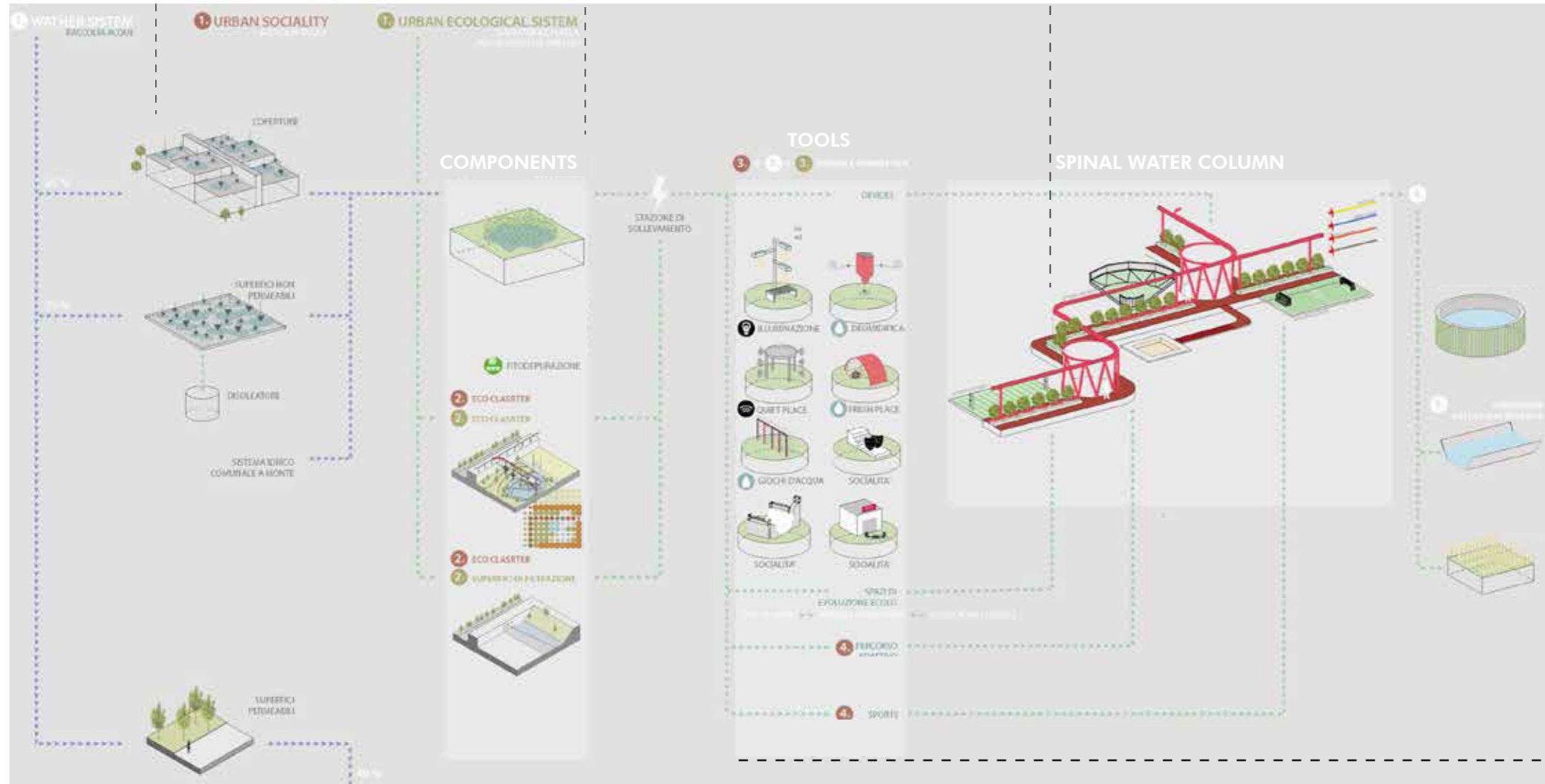
The low urban ecology and impermeability landscape

Ecological and social Cluster

The connectiv infrastructure

NEW ECO-URBAN LANDSCAPE

NEW SOCIAL-URBAN LANDSCAPE

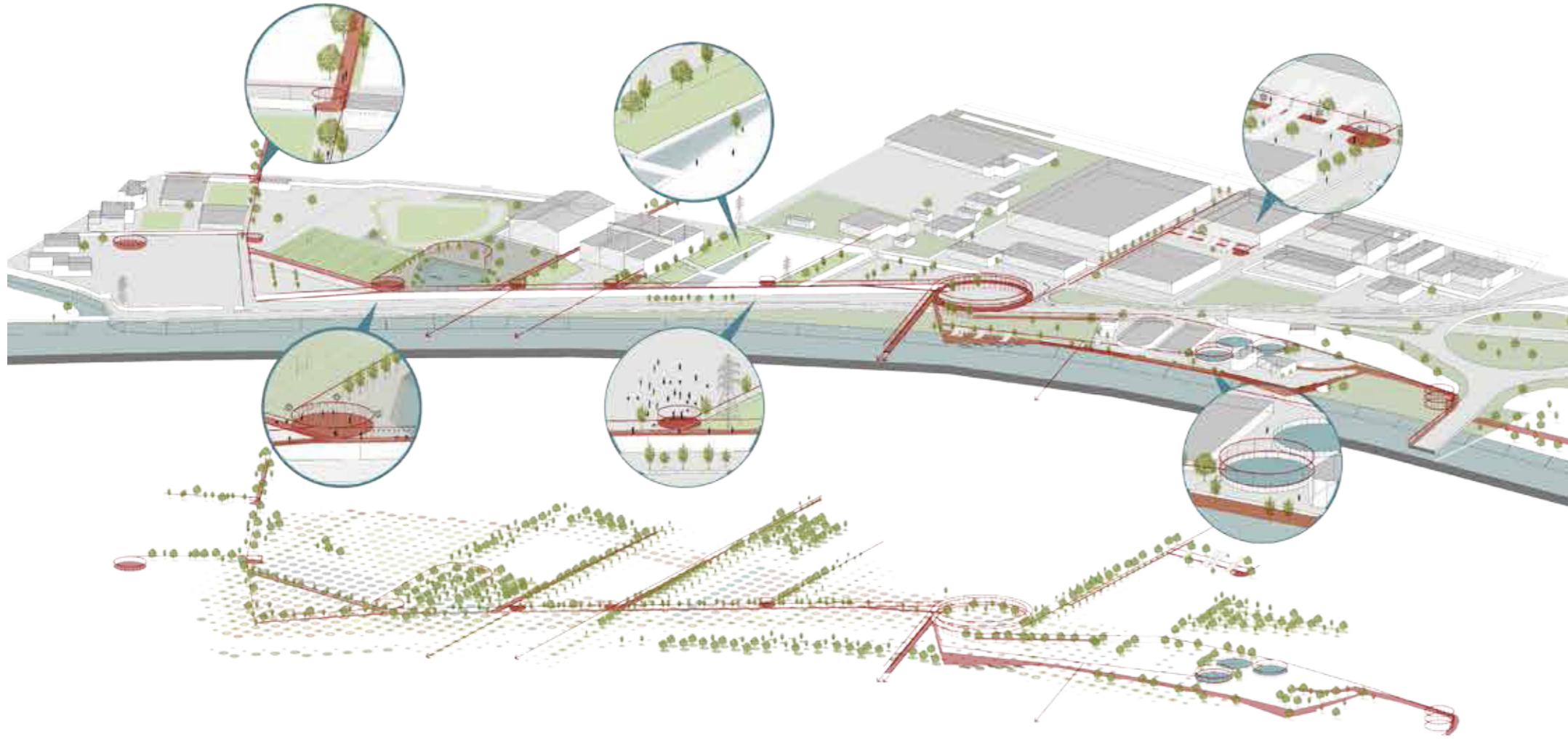


- Accessible areas
- waterproof surfaces
- New vegetation
- Connective structure
- Surface water
- Social areas
- Vegetation
- Occluded vegetation

Ecosystem Dynamics
We use water as fuel for the socials tools, in this way we can create interactives spaces



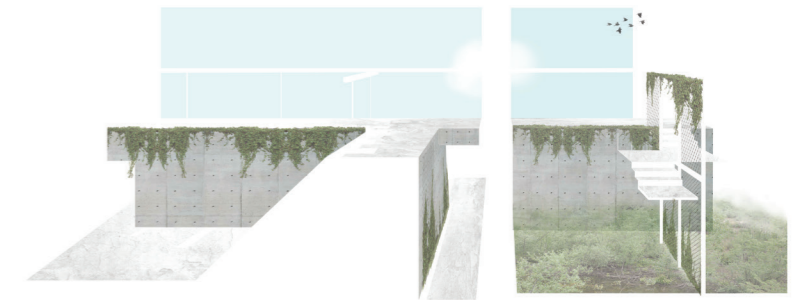
Vision



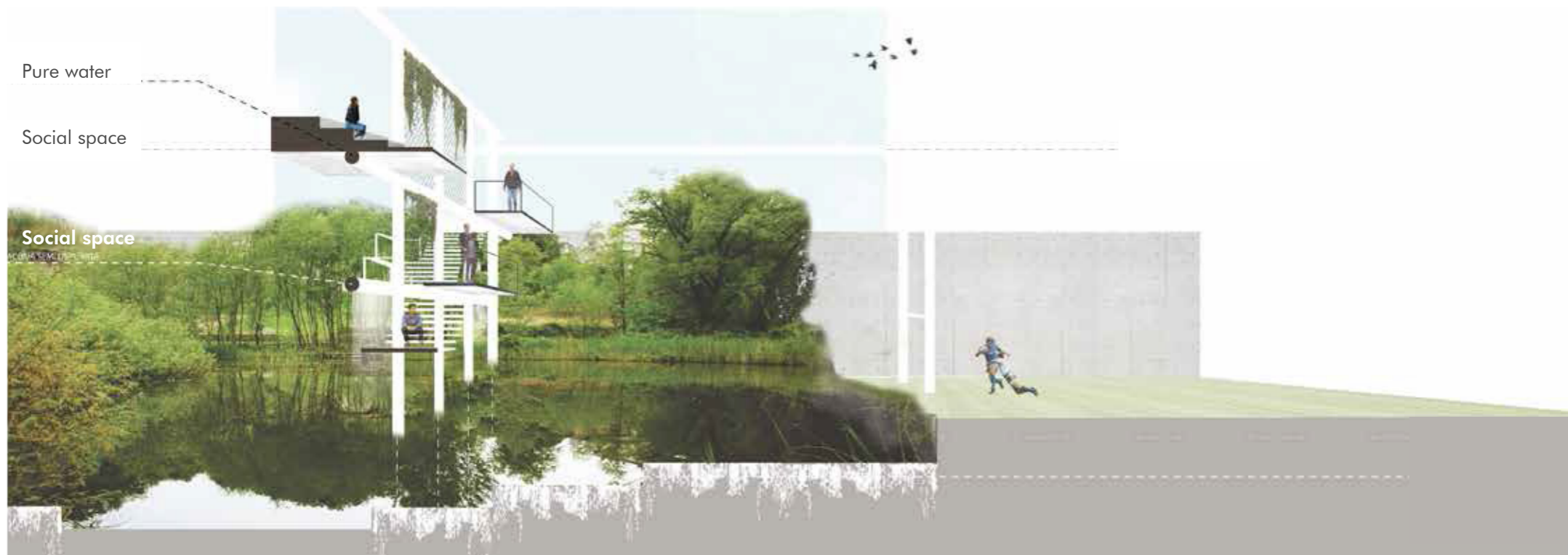
Green path



Industrial areas



Parking area



Pure water

Social space

Social space

purifying plants

25	35	30	50	75	85	50	50	75	75	80	70	50	50	70	70	70	90	90
85	65	100	75	75	75	100	70	75	75	100	90	100	80	50	70	70	90	90
-10	-30	-20	-30	-40	-30	-30	-40	-50	-40	-30	-50	-30	-30	-20	-20	-20	Gallegiante	Gallegiante

Utopia

The water management infrastructure is not a problem but an opportunity to create a resilient tool able to generate new ecological and social spaces for the future changes

