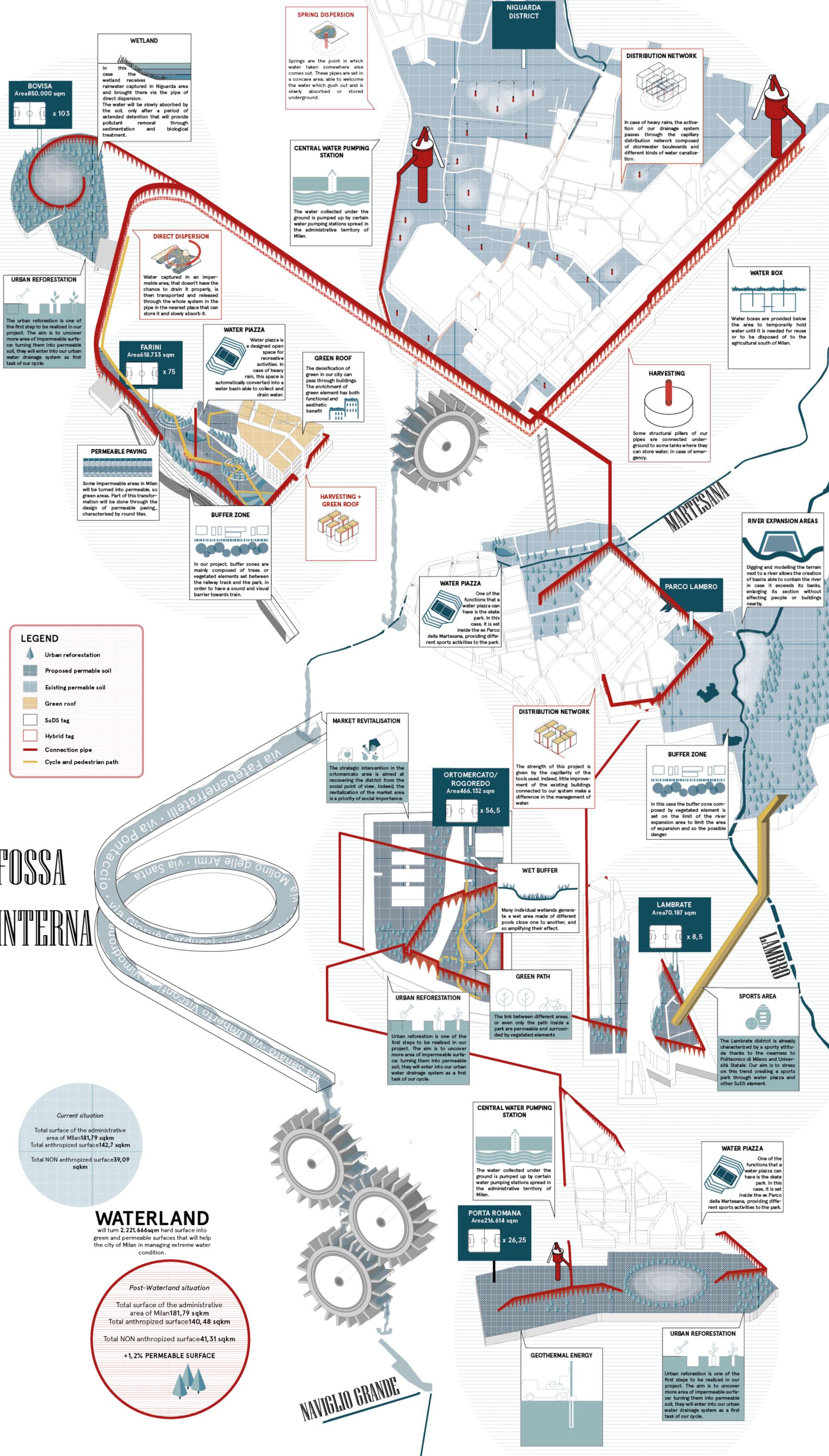


# MASTERPLAN

SEVESO



## SPRING DISPERSION

Springs are the point in which water taken somewhere else comes out. These pipes are set in a concave area, able to welcome the water which gush out and is slowly absorbed or stored underground.

## CENTRAL WATER PUMPING STATION

The water collected under the ground is pumped up by certain water pumping stations spread in the administrative territory of Milan.

## DISTRIBUTION NETWORK

In case of heavy rains, the activation of our drainage system passes through the capillary distribution network composed of stormwater boulevards and different kinds of water canalization.

## WATER BOX

Water boxes are provided below the area to temporarily hold water until it is needed for reuse or to be disposed of to the agricultural south of Milan.

## DIRECT DISPERSION

Water captured in an impermeable area, that doesn't have the chance to drain it properly, is then transported and released through the whole system in the pipe in the nearest place that can store it and slowly absorb it.

## WATER PIAZZA

Water piazza is a designed open space for recreative activities. In case of heavy rain, this space is automatically converted into a water basin able to collect and drain water.

## GREEN ROOF

The densification of green in our city can pass through buildings. The enrichment of green element has both functional and aesthetic benefit.

## HARVESTING

Some structural pillars of our pipes are connected underground to some tanks where they can store water, in case of emergency.

**BOVISA**  
Area 850,000 sqm  
x 103

**URBAN REFORESTATION**  
The urban reforestation is one of the first steps to be realized in our project. The aim is to uncover more area of impermeable surface, turning them into permeable soil, they will enter into our urban water drainage system as a first task of our cycle.

**FARINI**  
Area 618,733 sqm  
x 75

**PERMEABLE PAVING**  
Some impermeable areas in Milan will be turned into permeable, so green areas. Part of this transformation will be done through the design of permeable paving, characterised by round tiles.

**BUFFER ZONE**  
In our project, buffer zones are mainly composed of trees or vegetated elements set between the railway track and the park, in order to have a sound and visual barrier towards train.

**HARVESTING + GREEN ROOF**

**WATER PIAZZA**  
One of the functions that a water piazza can have is the skate park. In this case, it is set inside the ex Parco della Martesana, providing different sports activities to the park.

**RIVER EXPANSION AREAS**  
Digging and modelling the terrain next to a river allows the creation of basins able to contain the river in case it exceeds its banks, enlarging its section without affecting people or buildings nearby.

**LEGEND**

- Urban reforestation
- Proposed permeable soil
- Existing permeable soil
- Green roof
- SuDS tag
- Hybrid tag
- Connection pipe
- Cycle and pedestrian path

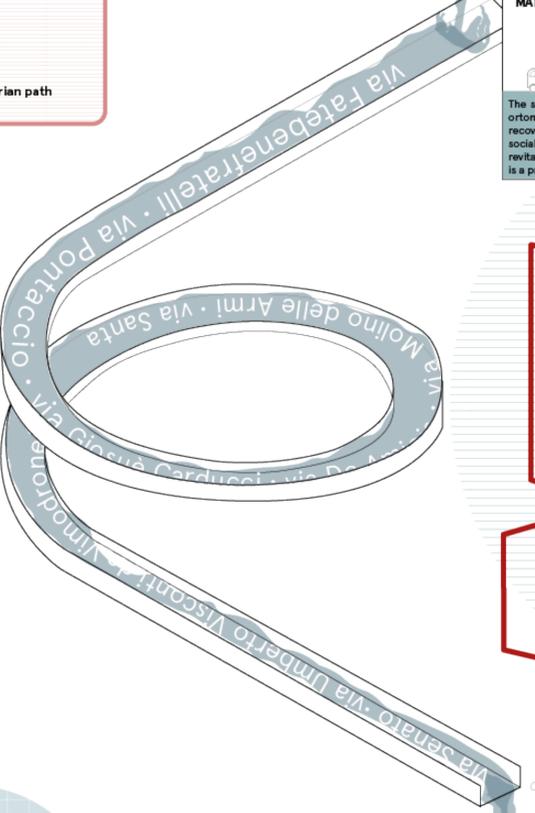
**MARKET REVITALISATION**  
The strategic intervention in the ortomercato area is aimed at recovering the district from the social point of view. Indeed, the revitalization of the market area is a priority of social importance.

**ORTOMERCATO/ROGOREDO**  
Area 466,132 sqm  
x 56,5

**DISTRIBUTION NETWORK**  
The strength of this project is given by the capillarity of the tools used. Indeed, little improvement of the existing buildings connected to our system make a difference in the management of water.

**BUFFER ZONE**  
In this case the buffer zone composed by vegetated element is set on the limit of the river expansion area to limit the area of expansion and so the possible danger.

FOSSA INTERNA



**WET BUFFER**  
Many individual wetlands generate a wet area made of different pools close one to another, and so amplifying their effect.

**LAMBRATE**  
Area 70,187 sqm  
x 8,5

**URBAN REFORESTATION**  
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**GREEN PATH**  
The link between different areas, or even only the path inside a park are permeable and surrounded by vegetated elements.

**SPORTS AREA**  
The Lambrate district is already characterized by a sporty attitude thanks to the nearness to Politecnico di Milano and Università Statale. Our aim is to stress on this trend creating a sports park through water piazza and other SuDS element.

**Current situation**

- Total surface of the administrative area of Milan 181,79 sqkm
- Total anthropized surface 142,7 sqkm
- Total NON anthropized surface 39,09 sqkm

## WATERLAND

will turn 2.221.666sqm hard surface into green and permeable surfaces that will help the city of Milan in managing extreme water condition.

**Post-Waterland situation**

- Total surface of the administrative area of Milan 181,79 sqkm
- Total anthropized surface 140,48 sqkm
- Total NON anthropized surface 41,31 sqkm
- +1,2% PERMEABLE SURFACE

**CENTRAL WATER PUMPING STATION**  
The water collected under the ground is pumped up by certain water pumping stations spread in the administrative territory of Milan.

**WATER PIAZZA**  
One of the functions that a water piazza can have is the skate park. In this case, it is set inside the ex Parco della Martesana, providing different sports activities to the park.

**PORTA ROMANA**  
Area 216,614 sqm  
x 26,25

**GEOTHERMAL ENERGY**

**URBAN REFORESTATION**  
Urban reforestation is one of the first steps to be realized in our project. The aim is to uncover more area of impermeable surface, turning them into permeable soil, they will enter into our urban water drainage system as a first task of our cycle.

NAVIGLIO GRANDE