

Honors thesis

COURSE OF ARCHITECTURE FOR SUSTAINABLE PROJECT

Abstract

SPACES AND SCENARIOS FOR THE RESILIENT CITY

The regenerative value of drosscapes in the Turin area

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In the contemporary world, the great urban contexts of metropolitan cities are constantly called to adapt to the continuous effects of climate change. This condition imposes a more efficient and sustainable management of urban resources, that today city system still does not seem to be able to adequately front.

Hence, the choice of the research project, which investigates the theme of sustainable urban regeneration, trying to delineate a possible methodological framework for a new resilient urban metabolism.

The study context is the city of Turin, where recurrent transformations of post-industrial realities brought out the necessity of a change in an adaptive view.

Through the design of an ecological network able to infiltrate the consolidated city and to involve the existing open space, residual parts, that in more or less extended dimensions characterize the current city, are reconsidered.

A mapping of abandoned buildings and lots without specific vocation was developed with the purpose of restoring dignity and role to these forgotten spaces.

The recognition of the possible regenerative value of these urban "waste" is, in fact, today of extreme necessity to reassemble the highly fragmented structure of contemporary metropolises.

This particular "Dross Geography", highlighted through the Mapping action, has been related with a synthetic but exhaustive reading of the "Urban Space Nature" and with the "Risk Geography" of the city.

Of these last two mappings, the first one concerns the cartographic exploration of the city resources from different profiles (hydrographic, infrastructural, ecological and transformative), while the second outlines a critical reading of the city's behavior of the conditions derived or triggered by climate change.

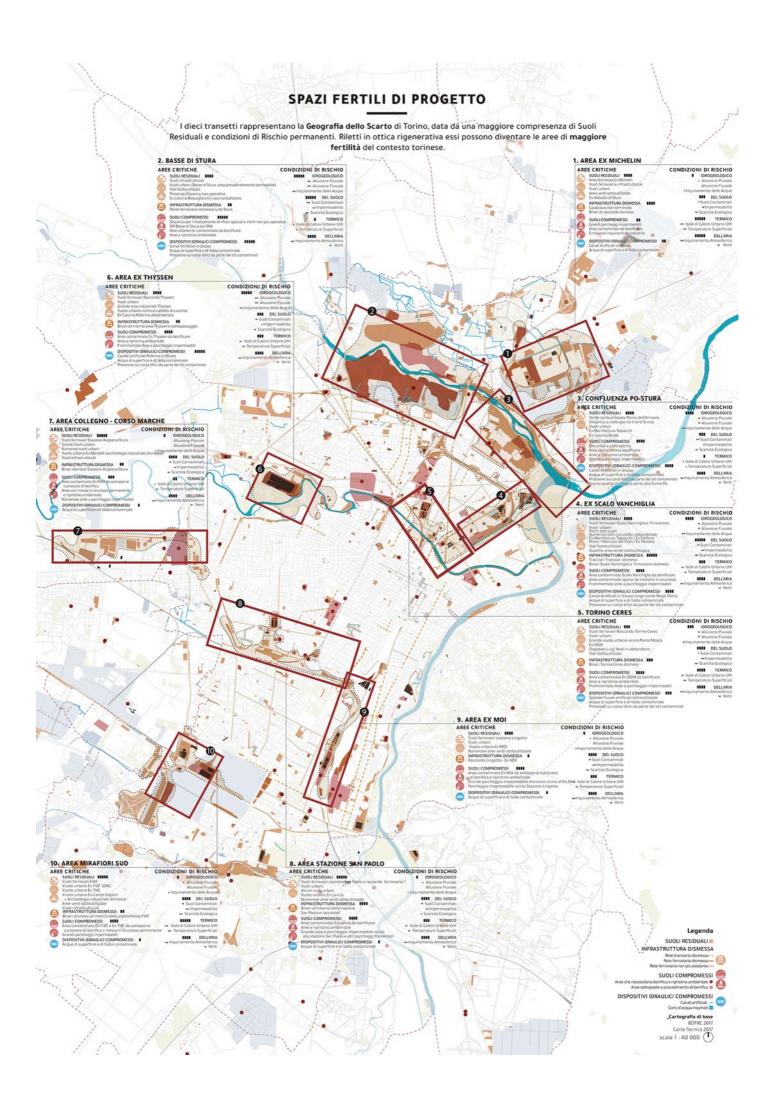
The overlapping of these three different maps outlines the identification of macro-areas, in which emerges a greater presence of critical conditions, but above all an interesting multitude of those leftovers potentially useful if reinterpreted with the right sensitivity. For the design process of these areas was dynamically explored an abacus of nature based solutions, with the intent to respond in a targeted and effective manner to the various risk conditions of urban contexts.

The relationship between the individual tactics, their morphological sphere of application, and their degree of effectiveness with respect to each risk, define the relevant and appropriate actions for each macro-strategic area.

This operative approach moves the choice to design a portion of the city, where the application of a multitude of possible multi-scalar actions, of mitigation and / or adaptation, bring to life a physical and natural network in which multiple urban waste dialogues with the memories and the traces of the present.

Critical cartographic reading, risk management, strategic vision lead to an architectural design of urban "wastes" with a landscape approach, targeted to the restoration of a correct and resilient urban metabolism.

Future sustainability can be effectively defended only if cities, cemented and anthropized, will be able to return to consider with due weight the Nature element and with it start a constructive dialogue, to preserve that precious urban porosity that outlines the well-being of every urban and therefore human context.





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