

POLITECNICO DI TORINO
FIRST SCHOOL OF ARCHITECTURE
Master of Science in Architecture (Urban and Territorial Design)
Honors theses

Infrastructure and urban environment: transformation scenarios for corso Marche in Turin. A sustainable urban project for Alenia area

by Federico Ratti

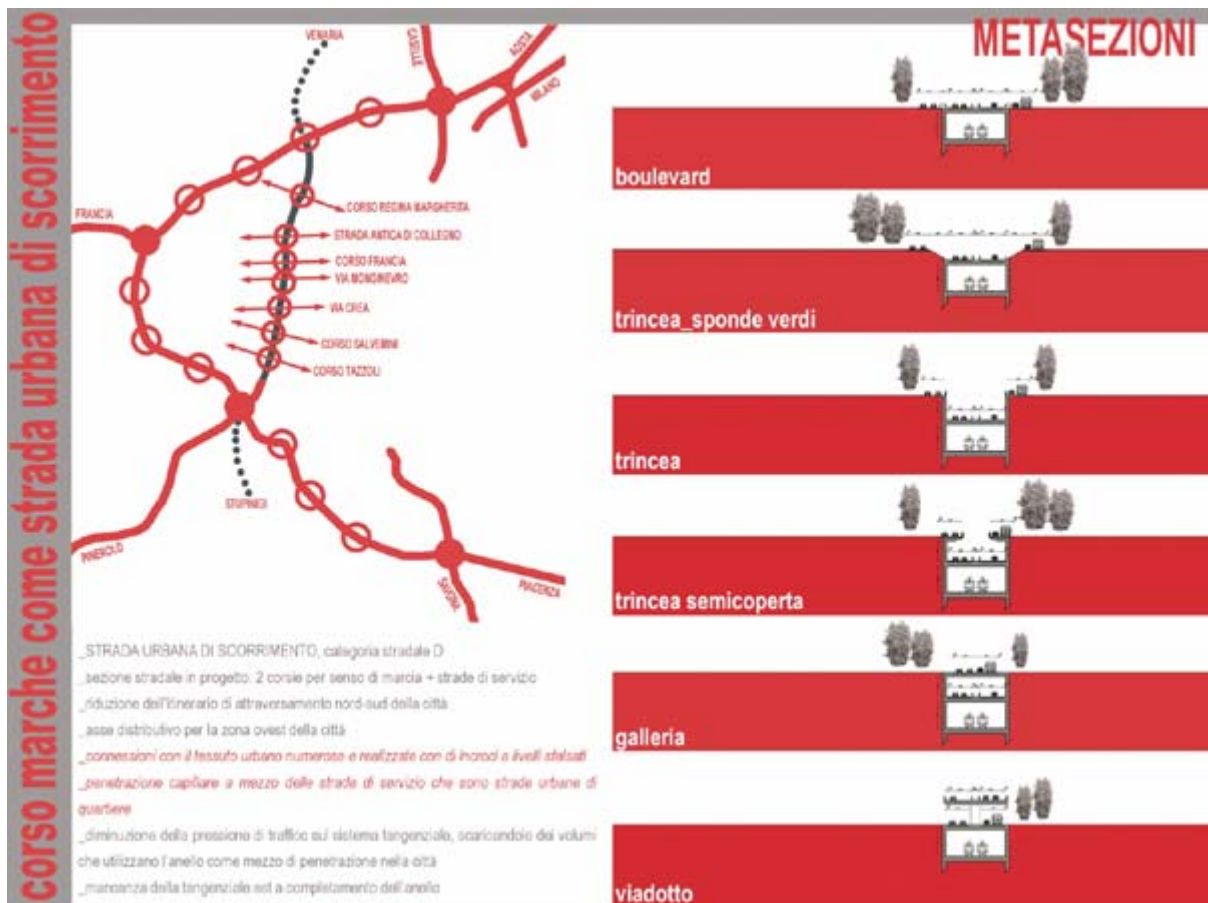
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The research domain which covers this MS thesis deals with corso Marche corridor, which bridges north and south Turin. The subject has gained recent attention thanks to TAV (High Speed Train) project.

The definition of a north-south infrastructural corridor for Turin metropolitan area is not a new chapter of local transformation history.

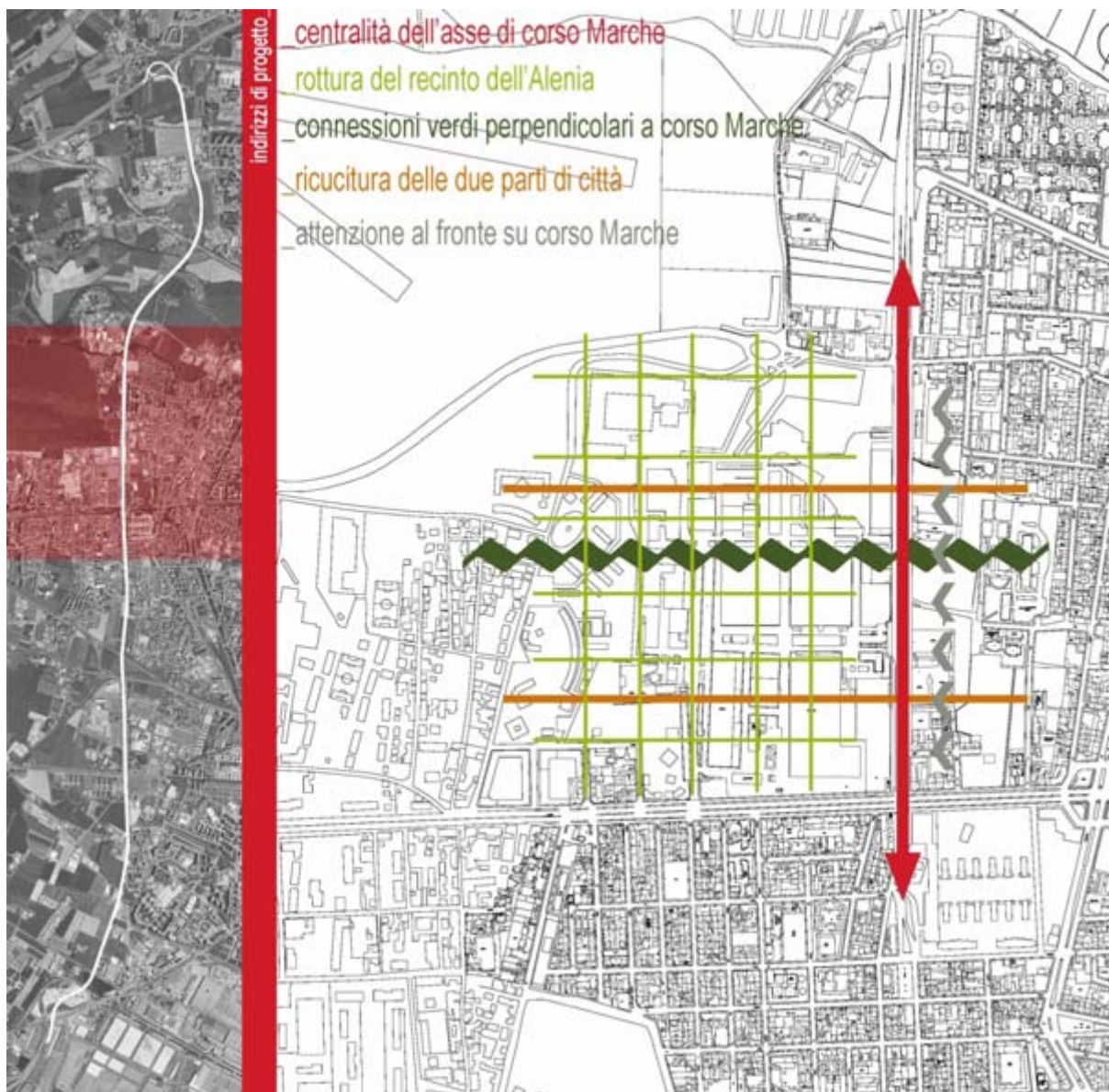
The definition of the new layout of Corso Marche, viewed not only as an arterial through-way for railway and car traffic but as a means to redesign part of west outskirts, has achieved a central role in the technical and political debate within Province and Region administrations.



The major aims of the project is to open new development perspectives for the entire metropolitan area of Turin while preserving the adjacent agricultural areas. This approach requires a top level design applied to urban and territorial environments, which looks after functions which can be locally integrated in a space plan which adds value to the historical heritage and natural environment.

Specifically the goal is to come out with an innovative structural solution as well as with the projection of possible transformation scenarios of the areas affected by the project.

The interested area is located in the west quadrant of Turin, placed at the border with the township of Collegno and at the crossroad of corso Marche with corso Francia. The area is actually occupied by Alenia premises to be released due to the transfer of industrial activities.



The issue is to provide a rational contribution to the future urban and infrastructural transformation balancing the two and a building block which links two sections of the city so far separated by Alenia premises.

The result is an urban, sustainable project proposal applied at an urban scale rather than at the individual buildings, which focuses on both the infrastructure and the crossed areas.

The idea is to connect corso Marche and its surroundings, trying to link the traffic infrastructure with the crossed area and to emphasize its central character. The project has five main subgoals, based on the central role of corso Marche as an urban avenue. As a second aim, to break Alenia area and to open it using the existing network of streets.

The project will ensure the vehicular access to the two distinct living areas as well as to the green areas to the benefit of cycles and pedestrians; the latter will be placed perpendicularly to corso Marche achieving protected and healthy green areas. Attention is placed to the buildings facing corso Marche and their surroundings.



The project intends to come up with a solution which elaborates the five sustainability principles declared by EC and which are increasingly integrated by national, regional and local legislation: high population intensity exploiting alternative energies thanks to proper buildings orientation; enhance functional mix as an aggregation means; provide area accessibility using individual and public transportation means reachable by walking; green infrastructure to improve the local microclimate; recover and reuse rain precipitations within the buildings and using external pools which can impact on local air and climate.

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