



POLITECNICO  
DI TORINO

# Honors thesis

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## COURSE OF ARCHITECTURE FOR SUSTAINABLE DESIGN

*Abstract*

### **TOWARDS SUSTAINABILITY in Urban design: A CASE STUDY in the town of Nichelino**

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The project area is bound by the Variation of Urban Renewal at the Municipal General Plan of the City of Nichelino in public spaces in the park, for the game and the sport at the service of public residential settlements, which ranks as the top parts of the territory for which, regardless of the state of fact, there will be presentations of radical urban renewal and new planting.

Reserve area AR2, when you determine the conditions for its integration in the urban setting, equalization applies a discipline that, along with the recognition of a quarter of a structure built right commensurate index manufacturability territorial 0.4 m / m provides for the free supply to the Local Council of the remaining three quarters; about a quarter is paid a similar right building assault of 0.4 m / m of ON to be used for social housing or to house building loans generated by other operations of urban renewal, while the remaining two quarters are used for services.

The building work to be carried out in the areas will have to ensure energy and environmental performance of particular quality, so as to be seen as eco-villages assuming characteristics suitable to their inclusion in energy class A or environmental certification according to the protocol "GBC home". Until the approval of partial variations referred to in the second paragraph, in the areas of the reserve are permitted maintenance work on existing buildings and the construction of public works.

The project idea, derived from a careful analysis of the cognitive territory, through a study of the real problems and any potential present within the area.

The project focuses on the creation of a new urban district with high environmental value, marked by the quality of relations with the landscape, the fluidity of the public open space and on the integration of functions and public spaces, in order to implement a new system of urban centrality (fig. 1).

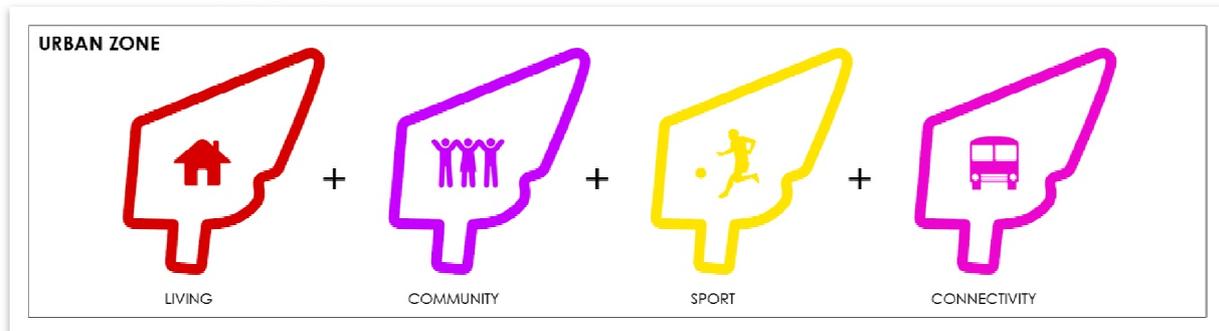


Figure 1 - Schematic representation for the creation of a new urban district

The idea of intervention is based on a clear distinction between the area to be allocated to the residences, the extension of new vehicular access and the urban park, which happens to be the cornerstone of the transformation and upgrading of the dial south - east of the city of Nicholasville. As for access within the area it was decided on the development of sustainable mobility, promoting accessibility and universal enjoyment of public spaces, with interventions of removal of architectural barriers and the building of bicycle paths along the route (fig. 2).

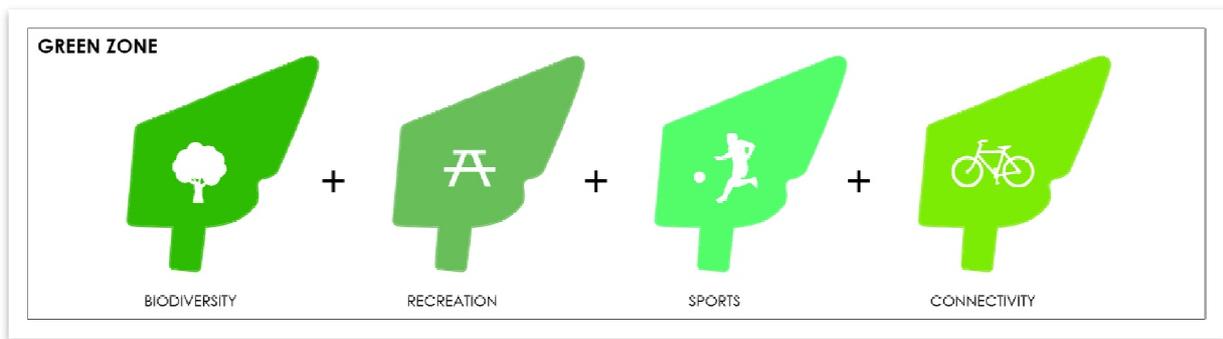


Figure 2 - Schematic representation for accessibility, the use of public spaces and the elimination of architectural barriers

The structure of the scheme of isolates is in order to the change typological elements, functions and dialogue with the existing. It is treated the relationship between the effects of fragmentation and segmentation of the urban fabric so as to limit marginalization. In conclusion, the idea of the project adheres as closely as possible to the requirements of the Urban Renewal variant PRG, maintaining the uses and the volumes required for residences. Moreover, it was extended an axis driveway, via San Giovanni on the entrance area leading to the residences, identifying clearly the residential area from the City Park. This clear separation is the goal I set myself, for design purposes, so that each intended use is distinct, especially among residences and park area (Fig. 3).



Figure 3 - Project for a new urban district

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