



**Politecnico
di Torino**

Honors Thesis

Master of Science in Sustainable Architecture

Abstract

The redevelopment of french social housing.

Intervention strategies of the Reha Programme and proposal design for Orvault

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Why choose to redevelop a building rather than build a new one?

The existing building stock accounts for 40% of Europe's total energy consumption and 36% of greenhouse gas emissions. It is therefore necessary to be aware of the importance of redevelopment operations.

The work of this thesis aims to analyze the concept of redevelopment and the issues involved in this types of intervention. The recovery of the existing building stock should be understood not only as an energy and technology upgrading but also as a spatial re-design to meet the needs of users, thanks also to the inclusion of new uses and the rethinking of relations with the soil. During the twentieth century, several French architects decided to tackle this theme, such as the well-known interventions by Lacaton and Vassal or by Roland Castro. Still in the French context, Reha has been established in recent years as a French operational program that explores a new approach to the built heritage and which aims to sustainably redevelop part of the existing housing stock.

The final project of this thesis focuses precisely on a building that is part of this program, in particular on a block building 110 meters long and 12 floors high above ground, located in Orvault (Nantes), in eastern France.





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