Urban tissue and sustainability: case-studies and design. Eco-Industrial Settlement in Collegno
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The work of urban planning on a regional scale has aimed to bring attention to the benefits that sustainable approach generates, which is adopted to a complete city system, very different from those generated in punctual scale.
We studied some of the topics of urban ecology and industrial ecology. We have also considered some cardinal elements of the evolution of a sustainable production system, such as the control of water, air, noise, soil, nature, transport, accessibility, energy, waste, land use, protection, recovery, quality of the public space, density, mixité and integration.
The research of evaluation methods and operational criteria for drawing up projects led to the knowledge of the guidelines APEA, used both in the analysis of case studies treated and in the subsequent design phase.
Using the study of the urban industrial tissue solutions that are significant in terms of quality and urban sustainability and considering the categories of reference proposed by the guidelines APEA, we have defined the project of expansion of existing production area in Collegno.

The project is based on:
- Conservation of important environmental features in the area
- Definition of a settlement in enclosed compartments
- Connections
- Drawing of green
- Performance of the infrastructure and buildings located in the settlement
- Efficient water management
- Attention to the orientation of the buildings
- Use of green roofs
- Renewable energy
- Re-use and recycling.

So the final result is a design masterplan led by the most significant aspects of Ecologically Equipped Productive Areas, found in the case studies previously analyzed.
The study showed the possibility to realize the criteria in a project of evaluation methods and sustainable design at the scale of territorial, with positive results towards greater sustainability at the level of settlement and not focused only on the single building.
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