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ARCHITECTURE | CITY PLANNING
ENERGY EFFICIENCY | SUSTAINABLE DESIGN

MSc ARCHITECTURAL ENGINEERING

SELECTED
PROJECTS PORTFOLIO



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Cliff House

Cornwall UK

Study Project 2008

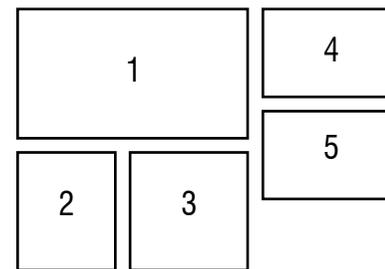
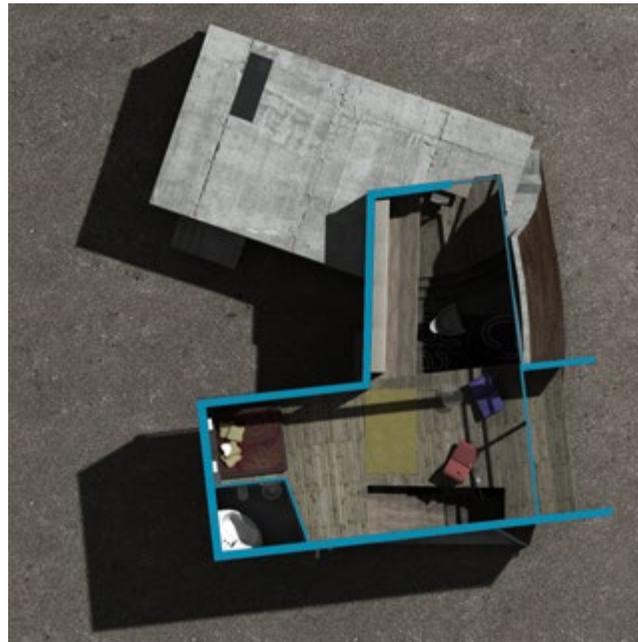
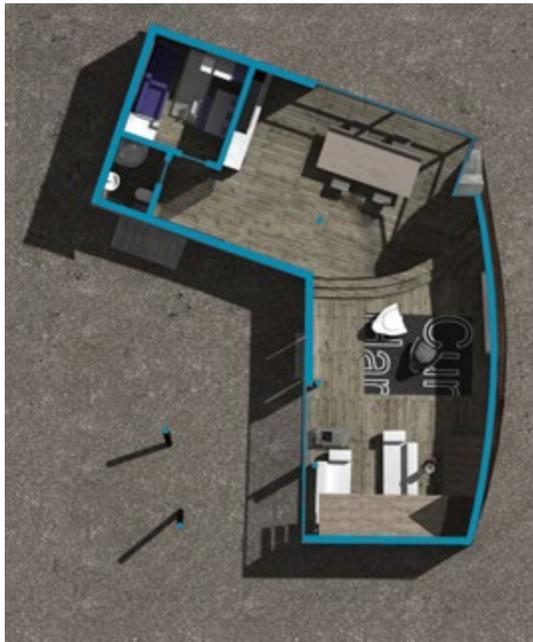
Located on top of a high cliff rising above the sea, the Cliff House is designed to enhance the feelings that the landscape arouses into the human being.

Cornwall is a land where nature powerfully express itself; where **wind, sea and sky merge together** showing their uncontested power.

The wonderful simplicity of those elements is enhanced by the materials used for the project. Raw concrete is adopted to **express the roughness of that land**, cor-ten steel is used on the big curved south wall, designed as a shield to underline the importance of protection against elemental forces, as well as to express the eternal fight of mankind against Nature.

As the outside shell is rough and rude the interiors are comfortable and cosy, allowing the user to **relax and contemplate** the elemental beauty of this land.





- 1 front elevation
- 2 ground floor
- 3 first floor
- 4 dining room
- 5 living room

OverTheTop Apartments

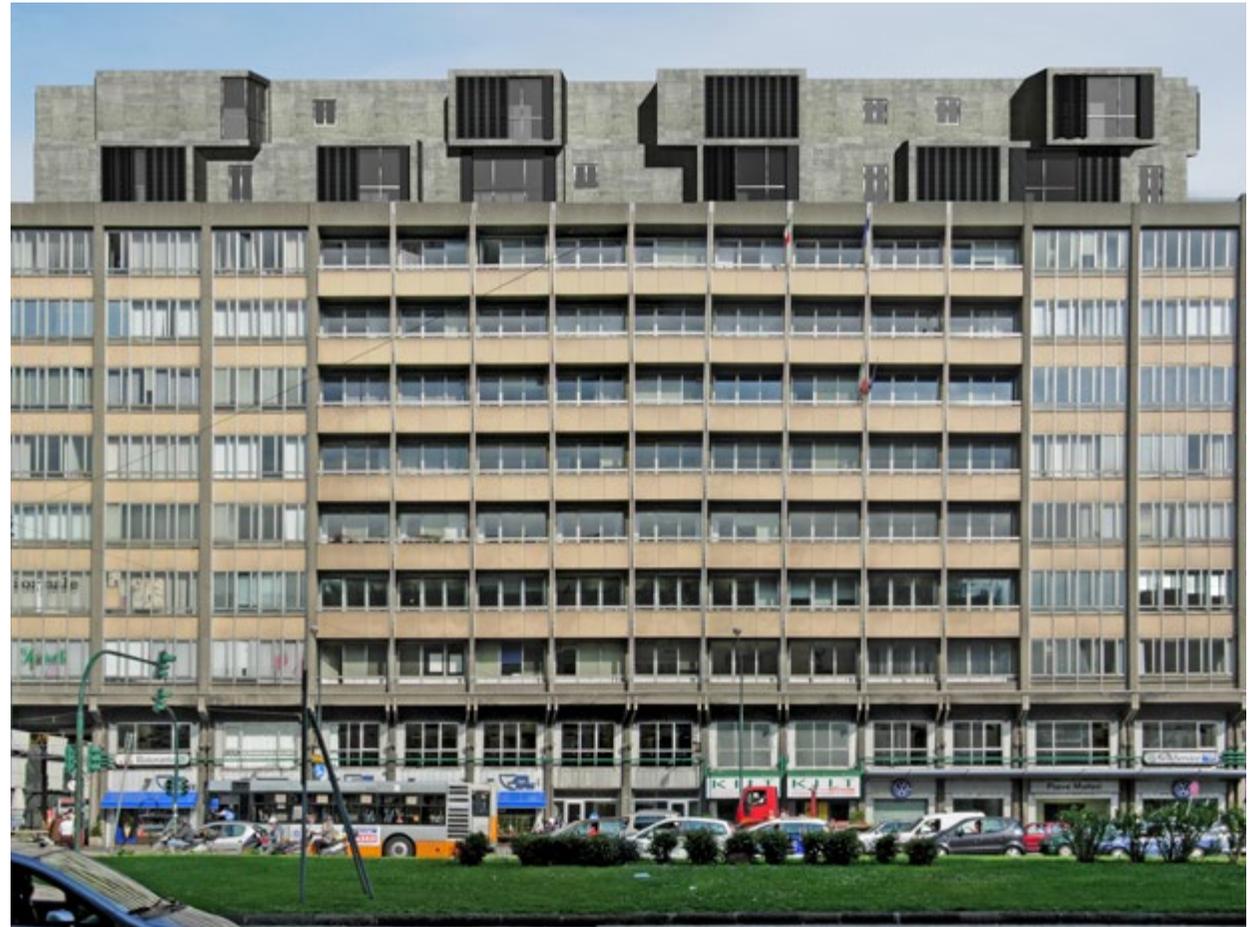
Social Housing

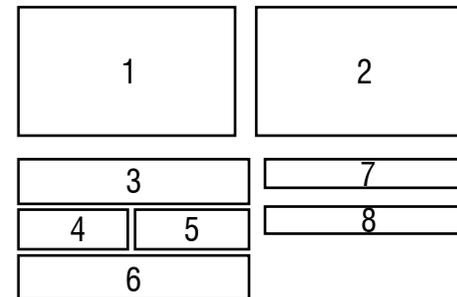
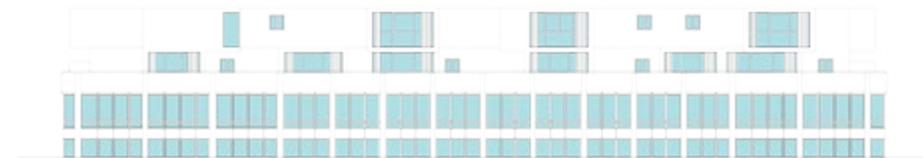
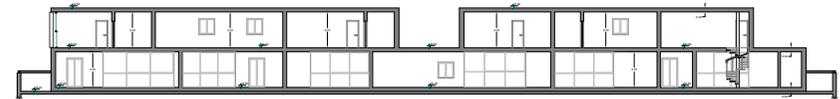
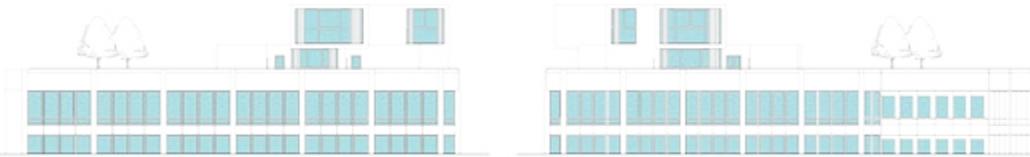
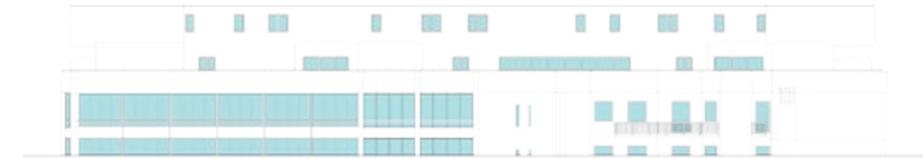
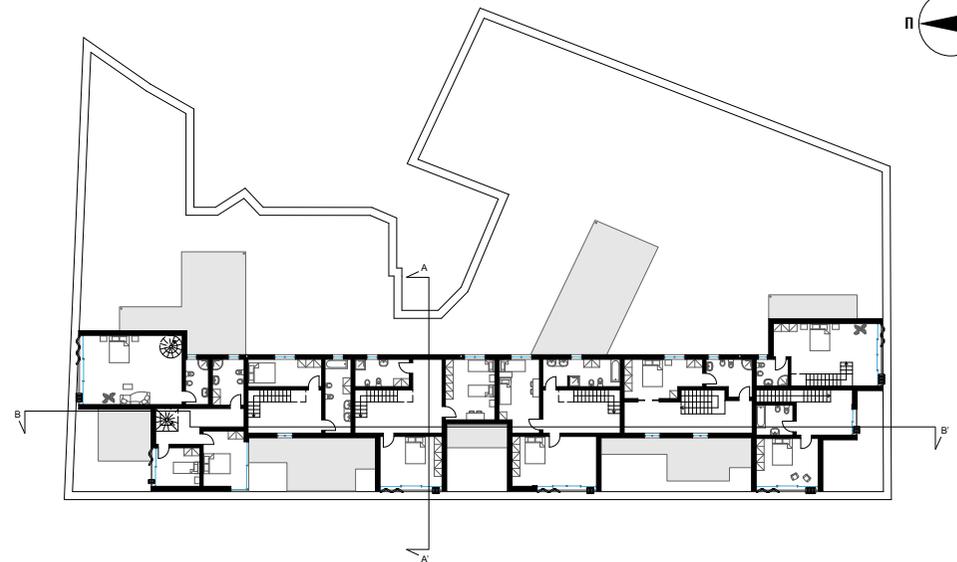
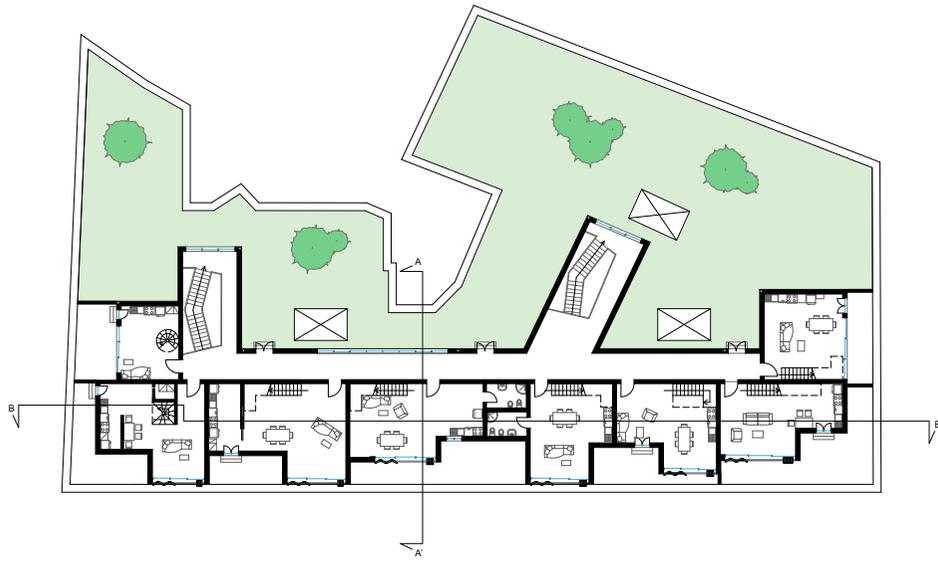
Genoa Italy

Study Project 2008

An apartment complex close to the city's downtown, built during the large urbanization of the '60-'70's. The Commune set a plan to **support the lowest citizens** by letting local architects and designers think about creating some apartments on the top of the building, located near one of the biggest hotel/office tower in Genoa: the Starhotel President.

That is the background in which **this project takes life**. These new apartments try to express the large importance of "social housing" as the term means: the statement that **simple and inexpensive** materials, driven and placed by a solid thinking, are able to build **well-structured and comfortable space**. Not only for the lowest.





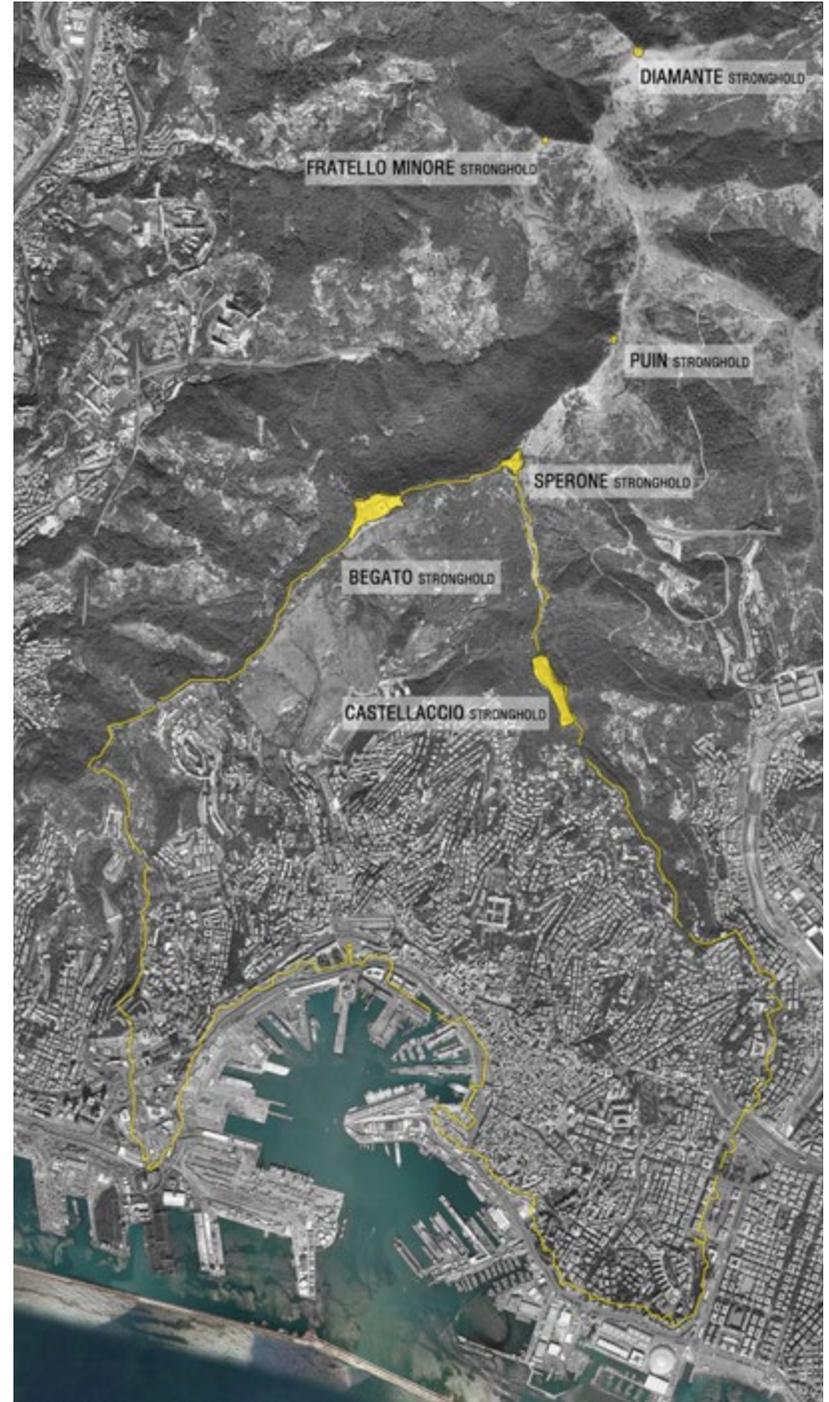
- 1 ground floor_plan
- 2 first floor_plan
- 3 east elevation
- 4 north elevation
- 5 south elevation
- 6 west elevation
- 7 section A-A'
- 8 section B-B'

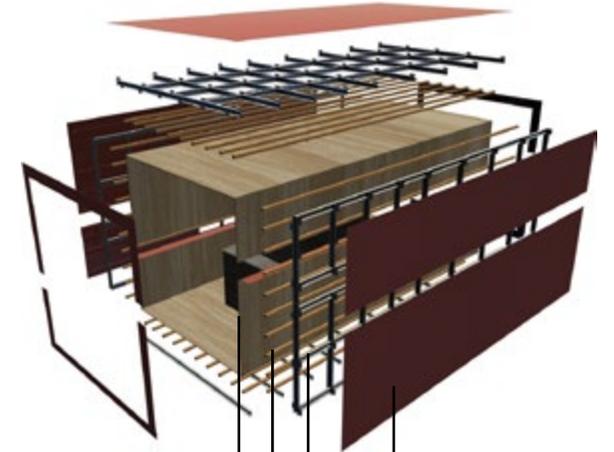
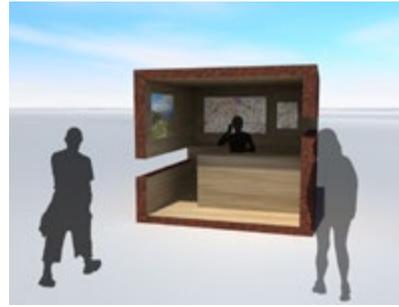
Genoa Strongholds Wind Farm

Energetic & Urban Requalification
Genoa **Italy**

Study Project 2009

The long fortified walls, one of the most iconic element of the Genoa's landscape, that surrounds the maritime city, is rethought to **maintain the attractiveness** that can offer, as well as to be able to **produce green energy** for the city. More than forty wind turbines are placed in the peak of the mountains surrounding the city, to optimize the wind power that blows from the sea, and to create a **strong and iconic symbol** of the **projection into the future** of the city itself, just like the ancient fortified walls were for the historic Genoa, long time ago.



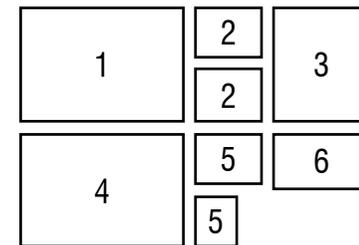
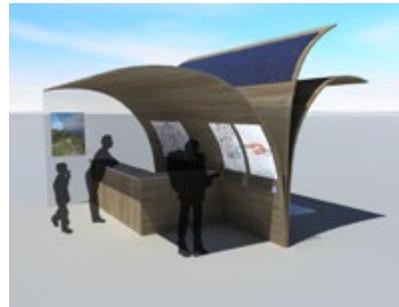


vertical wood plank for facade
P9556 O-Face Twinson
s=10 mm

copper tiles TECU Oxid
with hidden mounting
s=3mm

supporting treated wood slat
40x40 mm

[-]shaped cross-section steel beam
S275 mullion-transom structure
80x40 mm



- 1 infopoint_cube
- 2 cube_concept
- 3 cube_exploded diagram
- 4 infopont_leaf
- 5 leaf_concept
- 6 leaf_exploded diagram

Green Teen

Urban & Social Requalification Genoa Italy

Study Project + Administration 2010

The project focuses the attention on one increasingly important theme: **helping young generations**.

The main objective is not just to give young people an interesting place to spend their time into, but to help them use their skills and qualities in a **positive way**, for themselves and the ones around them.

The process of social and urban requalification is done focusing the attention on **green public spaces and sustainability** also. A local pool, soccer fields, a skatepark and lots of other aggregation spaces for young and not only people are linked and developed throughout a large park that connects the local library to a wellness&spa center and a sport indoor arena.



demolitions



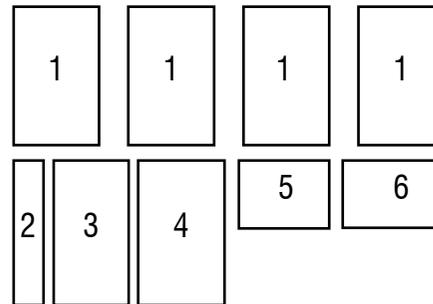
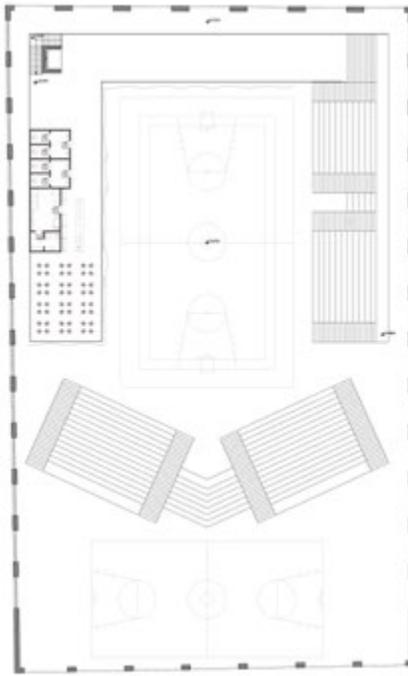
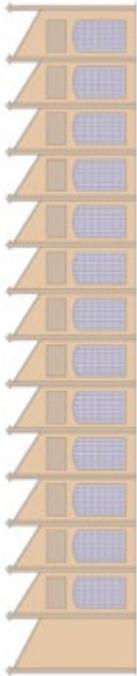
project buildings



green spaces



activities and leisures



- 1 urban context analysis
- 2 indoor arena_west elevation
- 3 indoor arena_ground floor
- 4 indoor arena_upper floor
- 5 view from the balcony
- 6 view from the bleachers

LaStampa NewOffice

Office Renovation

Cuneo Italy

Study Project+ Competition 2011

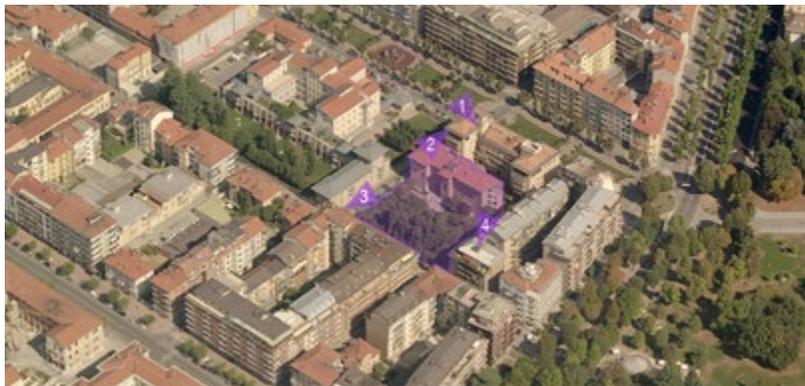
The project is about a **renovation and extension** of the headquarters of a northern Italy daily newspaper.

The historic building is kept as it was built centuries ago with the exception of the spaces intended for the canteen and the secondary conference hall.

The simple volume of the **new building is designed to stand out** and express the importance of the headquarters, as well as to **represent the future-oriented mind** of the owner society.

The congress and conference hall is located inside this extension, as the directional offices are.

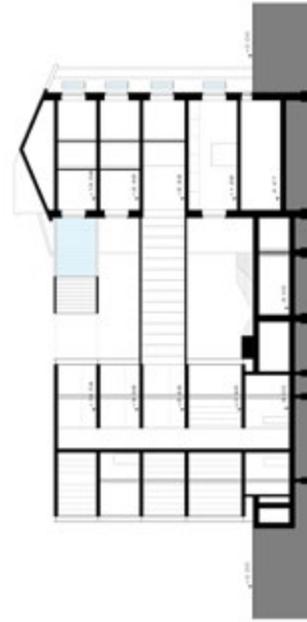
The connection between these two volumes is done by glass corridors located at the second and fourth floor.



first floor plan



A-A' section



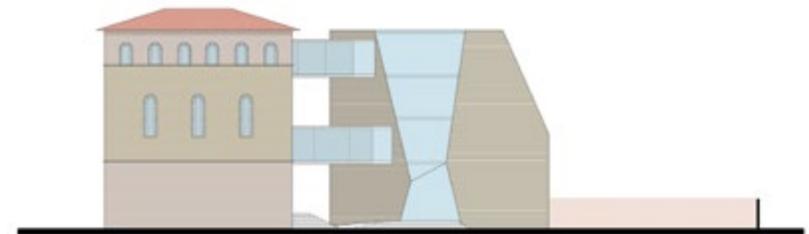
third floor plan



south elevation



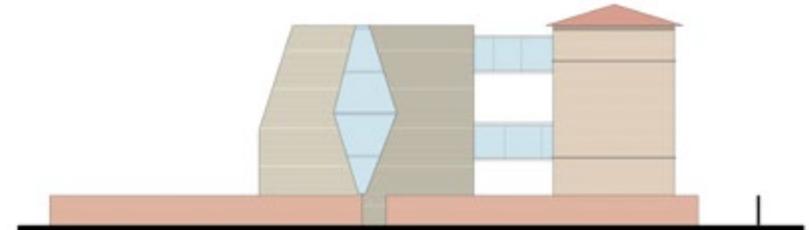
west elevation



north elevation



east elevation

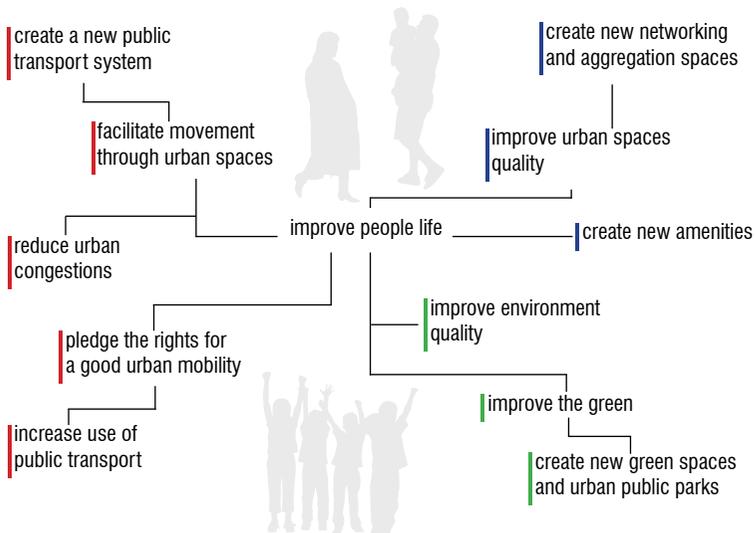


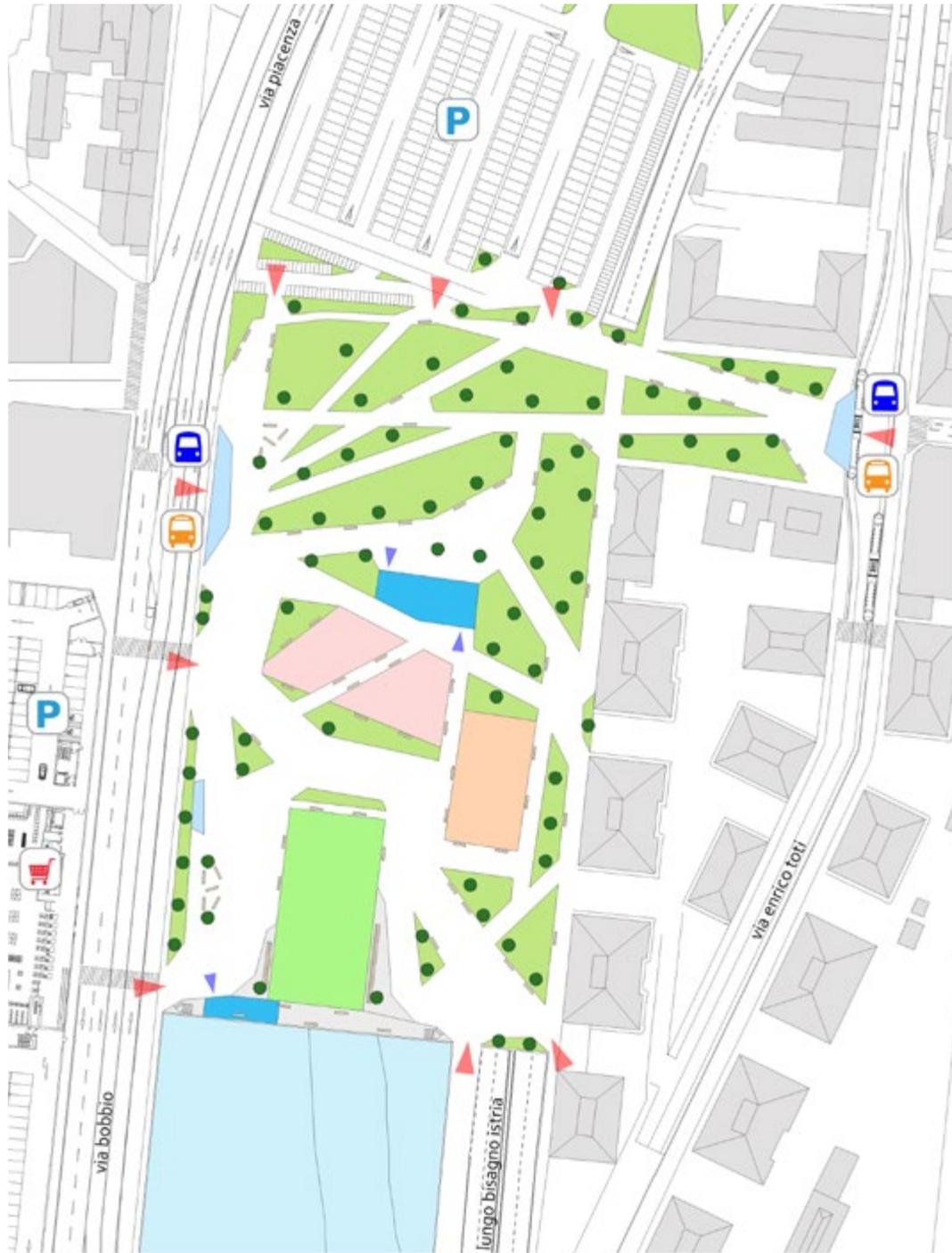
R+G+B

Urban & Social Requalification Genoa Italy

Study Project + Administration 2012

Requalification + Green spaces + val Bisagno is a project that follows what are the goal set by the local administration about the requalification of the Bisagno Valley; one of the main urbanized arterial road that starts from the downtown of Genoa and goes to the up-country, following the river Bisagno. The aim of the project is to rethink about some public spaces of the area and develop them in a way that **improve people life**, as well as **rethink the public transport** making them more effective and attractive. The masterplan focuses on a piece of asphalt that presently connect the two sides of the valley, building a **green and comfortable** area that helps people to **run away from the urban chaos**.





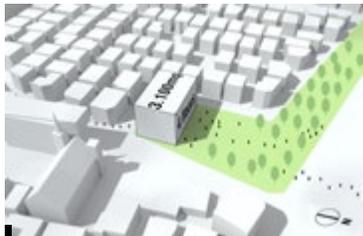
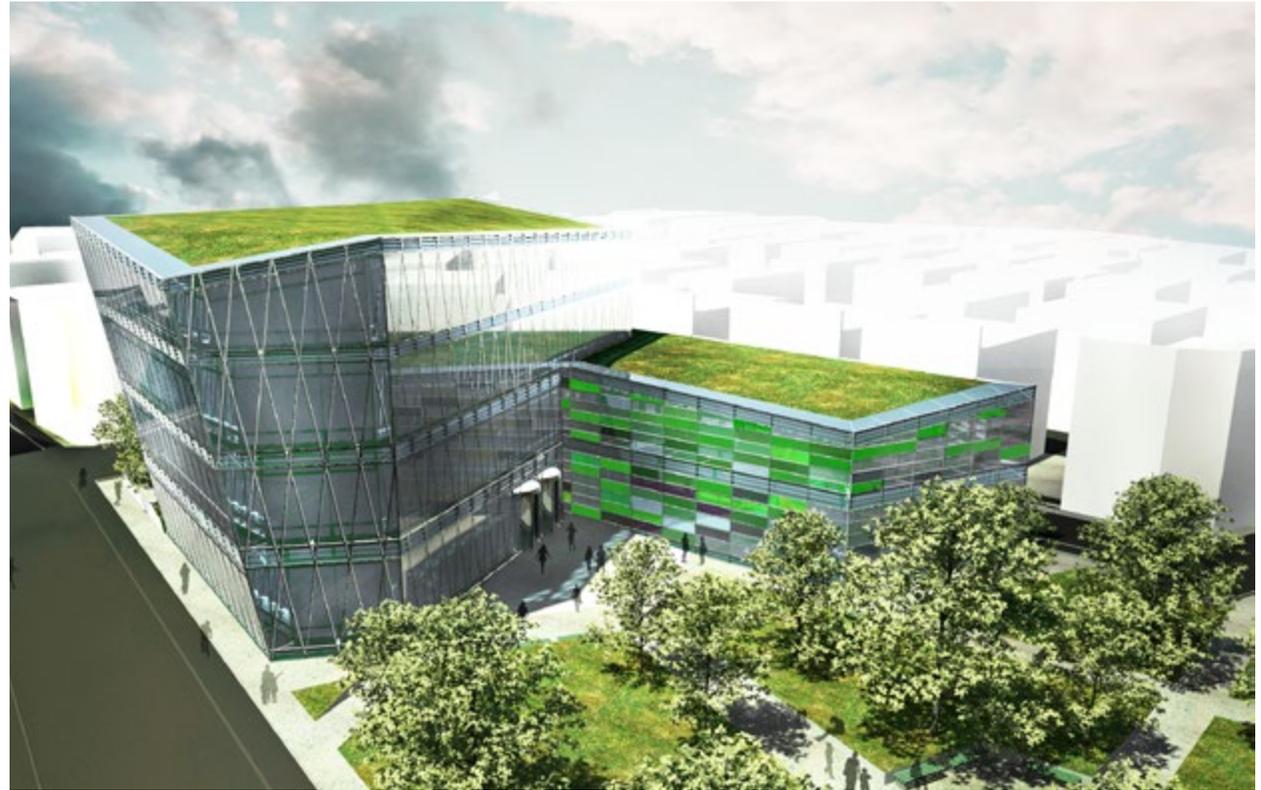
Deagu Green Public Library

Public Library

Daegu South Korea

Thesis Project 2012

The aim of the project is to embed the **importance of sustainability and energy efficiency** inside people's minds through an active approach, that relate the importance of a great example in a **society that cares about culture and future**, understanding that this is the best way to improve. The **green technologies** adopted are **strictly related** one another and to the building volume and shape too, according to an integrated omni-comprehensive approach and to the **LEED Certification**. The smart envelope, designed as a **double skin facade**, as well as the other technologies adopted allow this building to be considered one of the greenest public library example, because of its **energy consumption of only 34 kWh/m² year**.



volume and park



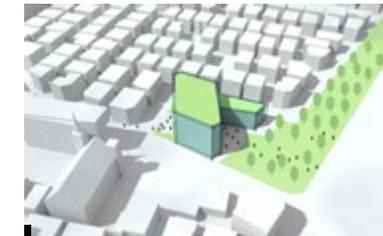
protecting against cold winds



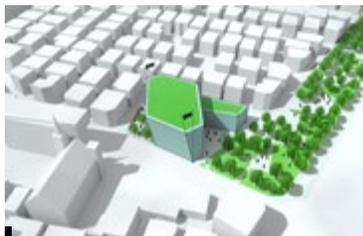
enhancing summer breezes



optimizing solar radiation



implementing smart envelope



reducing summer solar gains



optimizing volume



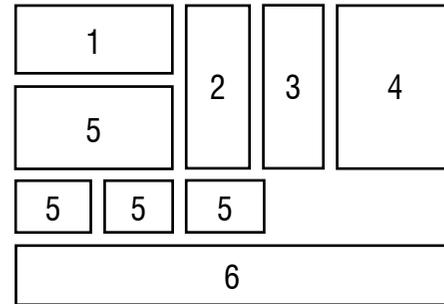
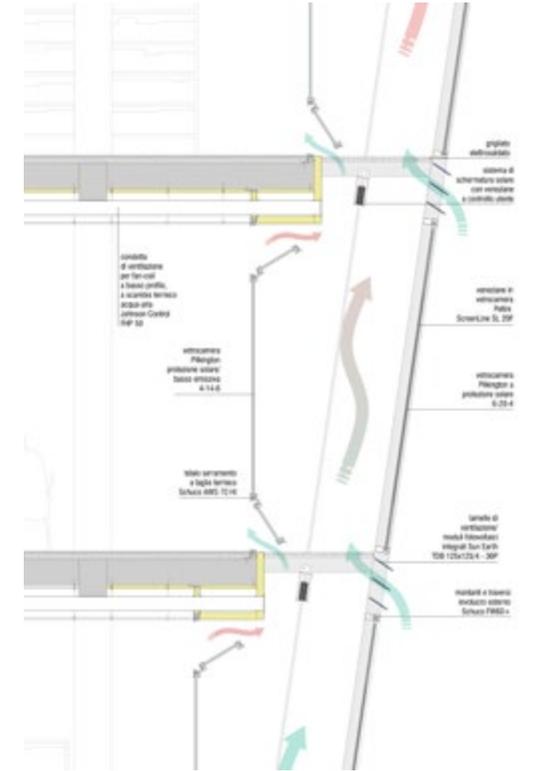
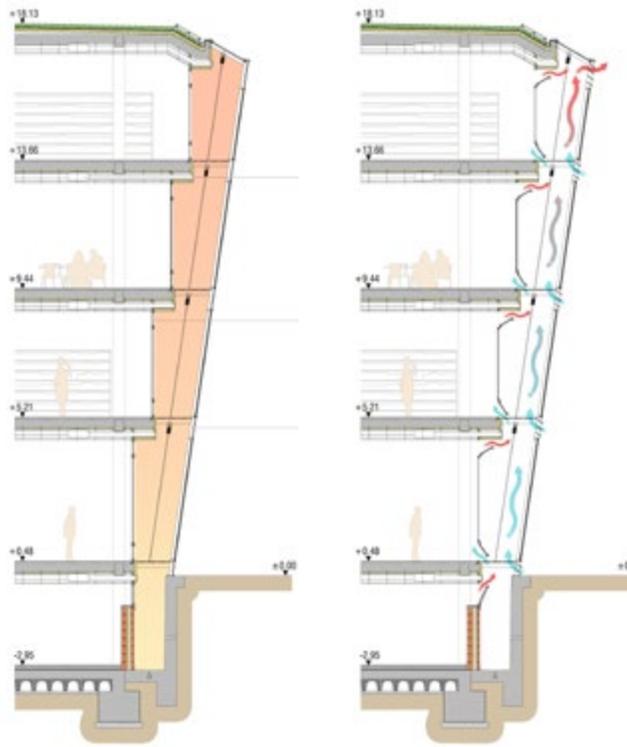
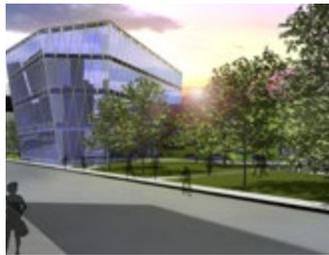
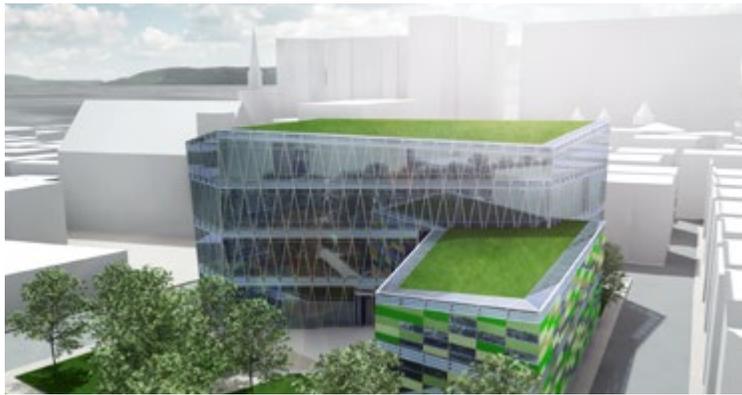
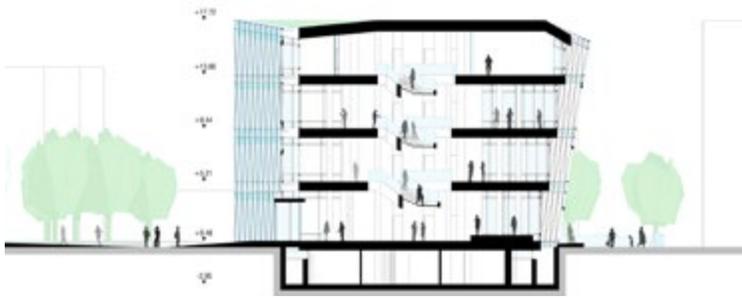
integrating photovoltaic



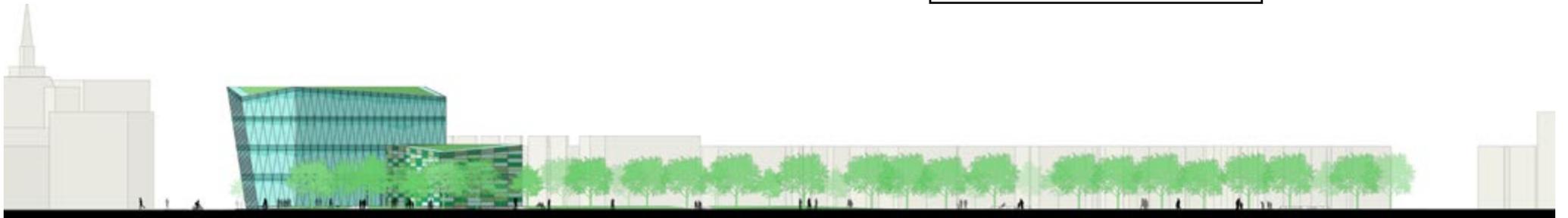
adopting thermic solar panels



collecting rainwater



- 1 library_section
- 2 south facade_section
- 3 south facade_section
- 4 south facade_detail
- 5 outdoor_render
- 6 north_elevation



thank you
for your time and consideration

do not hesitate to contact me for
more information

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