

edilportale[®]

TOUR 2017

Ristrutturazione, riqualificazione
energetica, comfort abitativo,
adeguamento antisismico, BIM



Roofingreen



Ancona, 29 Marzo 2017

FORME E TECNICHE PER LA RIGENERAZIONE DEL PATRIMONIO ARCHITETTONICO

Gianluigi Mondaini

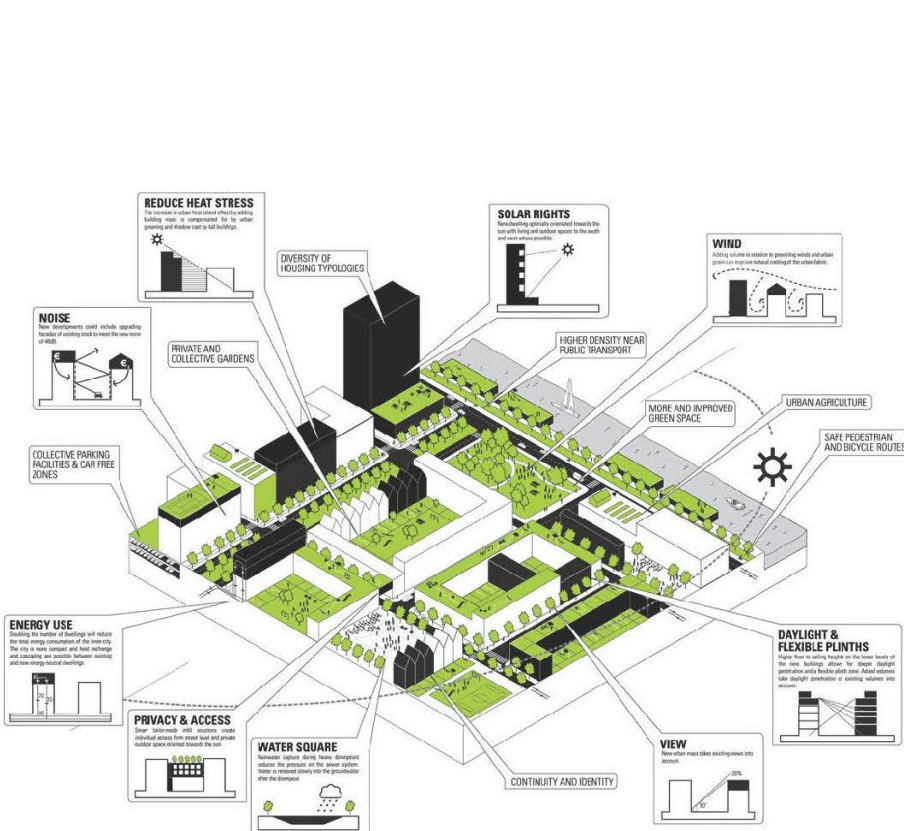
**Corso di Laurea Ingegneria Edile Architettura
Università Politecnica delle Marche**

parole chiave | key words

DENSIFICAZIONE | densification

Il concetto di densificazione applicato alla città contemporanea implica la messa in campo di strategie volte ad aumentarne l'efficienza, la sostenibilità, la qualità dell'ambiente urbano. Una città più densa sfrutta al meglio le risorse esistenti, risparmia il territorio, e sperabilmente, riesce a ricucire al meglio le fratture del proprio sistema urbano, riducendo al minimo situazioni di pericolo sociale ed ambientale.

The concept of densification applied to contemporary city involves the deployment of strategies to increase efficiency, sustainability, quality of urban environment. A denser city takes full advantage of existing resources, save the territory, and hopefully manages to patch up the most of the fractures of its urban system, while minimizing social and environmental hazard.



parole chiave | key words

IBRIDAZIONE | hybridation

Il concetto di ibridazione invece, mutuando esempi e studi della biologia, osserva come nel tempo siano i "sistemi complessi" quelli ad avere capacità di progredire e di evolversi, al contrario di quelli "semplici" destinati spesso a non essere in grado di mettere in gioco le azioni necessarie alla propria sopravvivenza. Ciò si traduce nell'adozione di strategie multidisciplinari in fase di progettazione e di programmi funzionali misti e flessibili in fase di realizzazione.

The concept of hybridization borrowing examples from biology, observes as in time are the "complex systems" the ones to have ability to progress and evolve, as opposed to those "simple" often not able to produce the necessary actions to survive. This results in the adoption of multidisciplinary strategies in the design phase and mixed and flexible functional programs in executive phase.



project by Alain Fouraux & Rem Koolhaas

stop mono-programming



parole chiave | key words

IL TEMA DELL'ADDIZIONE | Architectural addition

Osservando la pratica progettuale recente, è stato possibile rintracciare la presenza di alcune tendenze di lavoro, che se identificate e opportunamente codificate, possono fornire una base di lavoro capace di contribuire ad uno sviluppo futuro delle città sostenibile a lungo termine.

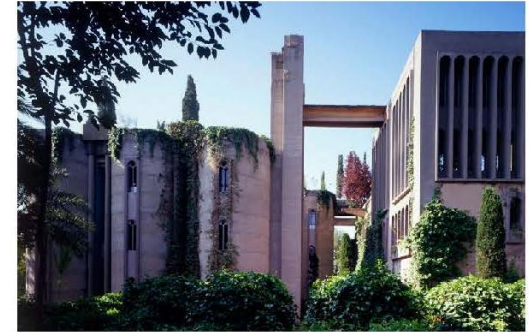
Observing the recent design practice, it was possible to trace the presence of some working trends; if identified and appropriately encoded, they can provide a working base capable of contributing to a future sustainable development of cities in the long term.



SOSTENIBILITA' | Sustainability



RAPPORTO CON IL PATRIMONIO ESISTENTE | Contemporary vs Heritage



NORMATIVA | Regulations opportunity

- Meccanismi premiali per chi amplia, recupera, ricostruisce edifici esistenti adeguandoli alle norme sismiche ed energetiche ("Piano Casa");
- Incentivi economici per ristrutturazioni di edifici residenziali, per tutto ciò che riguarda il contenimento dei consumi energetici e per l'adeguamento sismico;
- Piano Operativo di Riqualificazione Urbana (PORU) - Regione Marche.

- Mechanisms to reward those who expands, recovers, rebuilds adapting existing buildings to seismic and energetic standards ("Piano Casa");
- Economic incentives for renovation of residential buildings, for everything related to the reduction of energy consumption and for seismic upgrading;
- Operational Plan for Urban Renewal (Poru) - Marche Region.



QUESTIONI DELLA **FORMA**
formal aspects



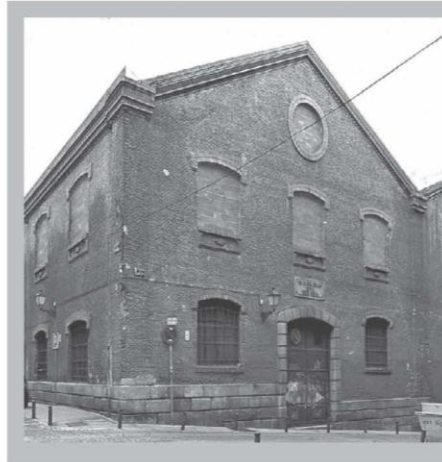
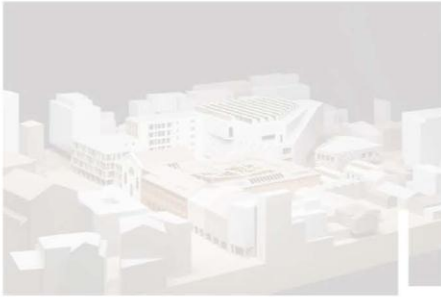
QUESTIONI DELLA **TECNICA**
technical aspects

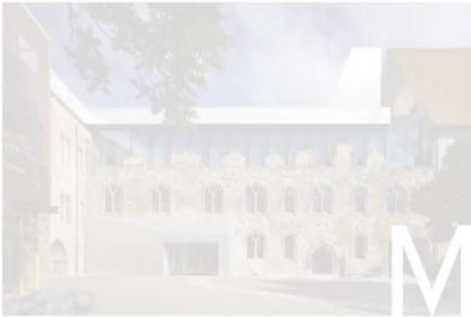
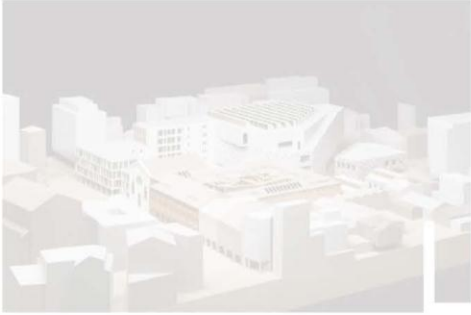


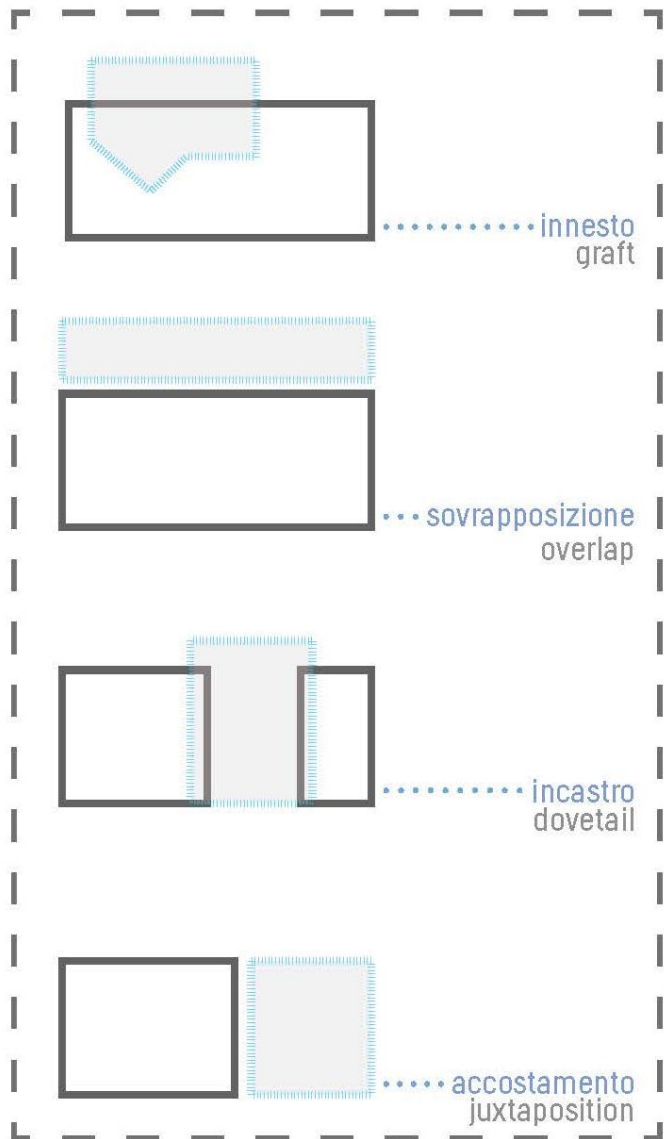
FORMA | formal aspects

LA SCALA DI INTERVENTO | project scale



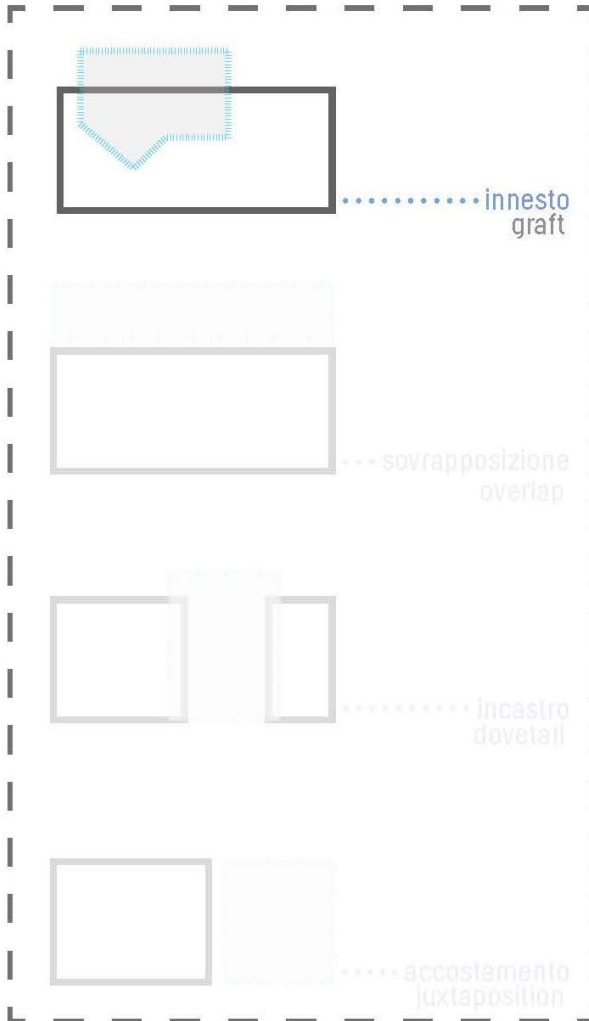


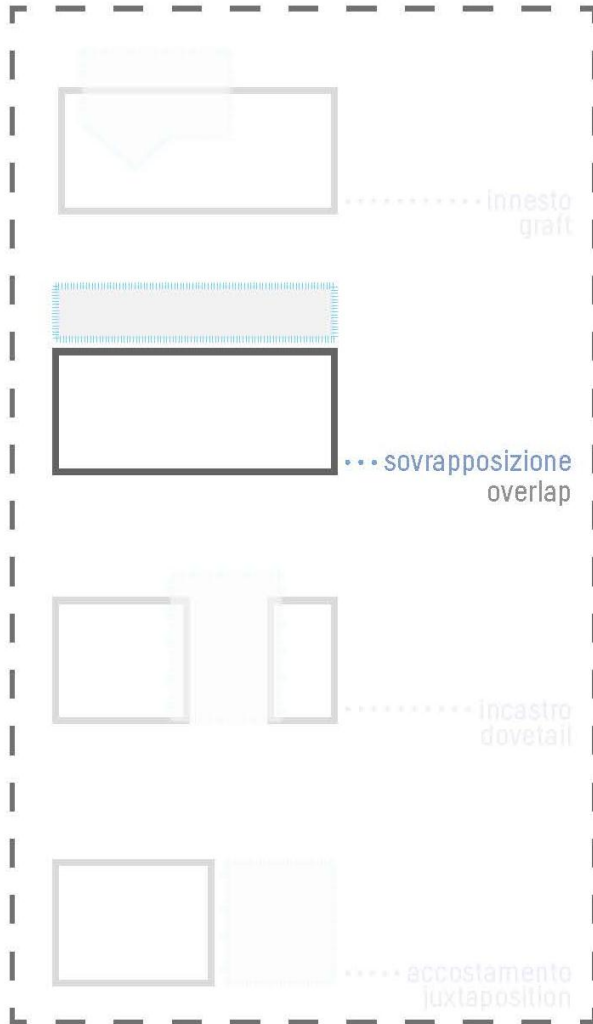




FORMA | formal aspects

LE AZIONI DEL COMPORRE | Strategies for composition



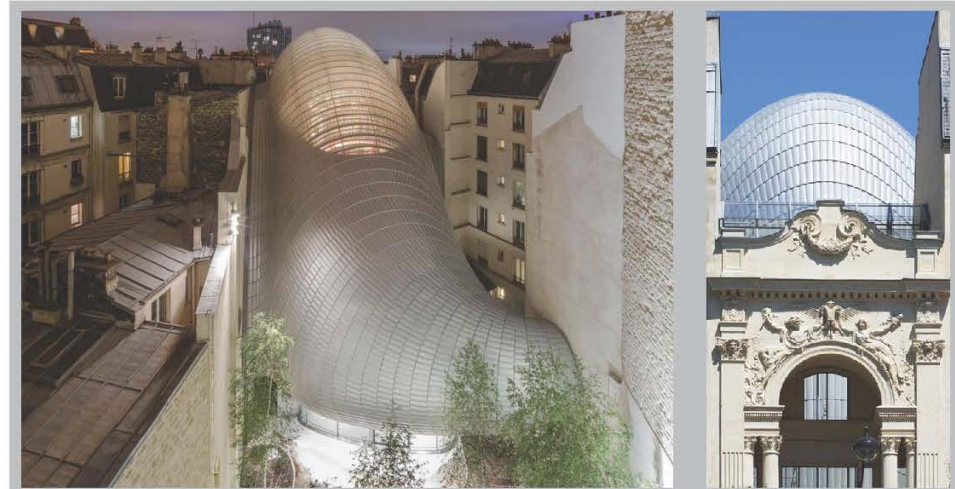
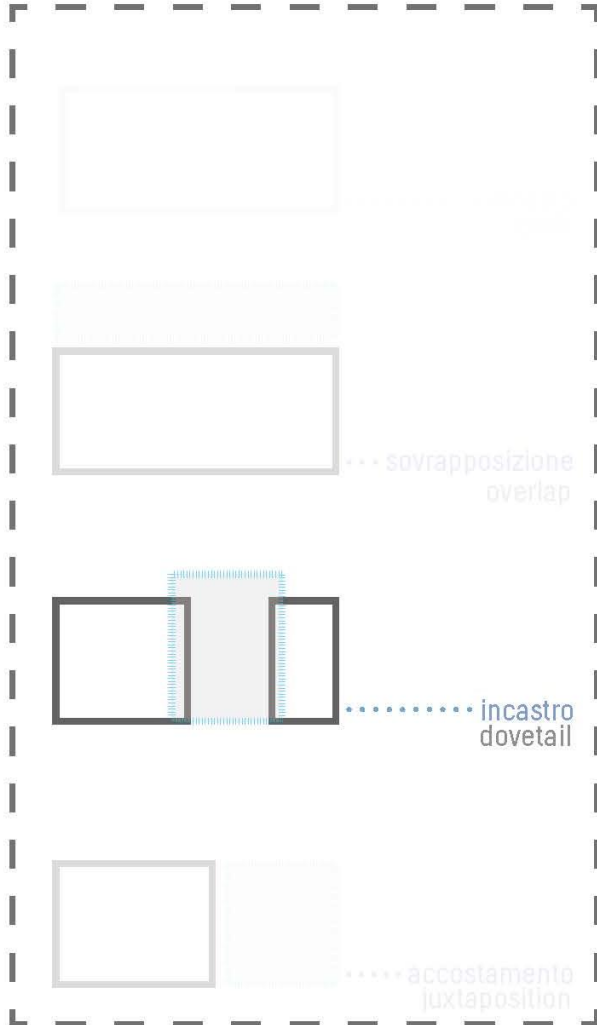


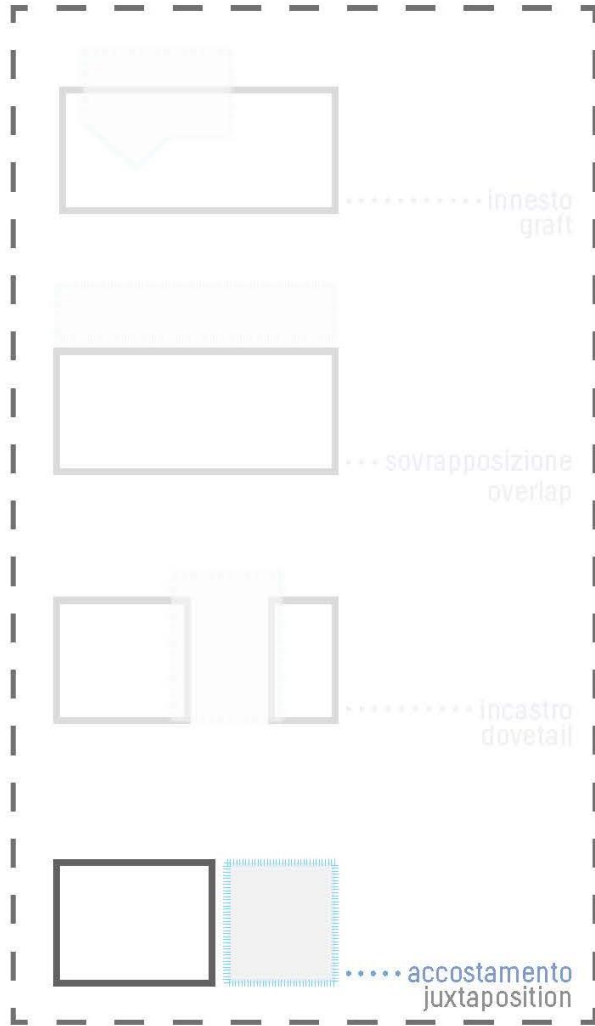
Tangenza - Tangency



Intersezione - Intersection

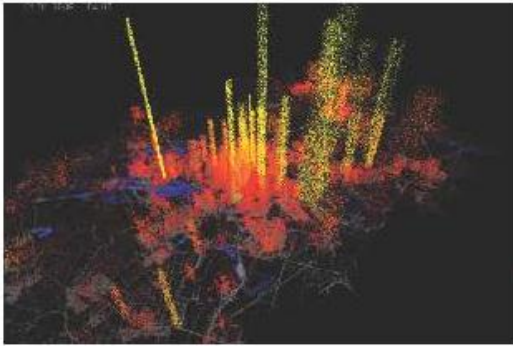








..... struttura
structure



..... tecnologia
technology

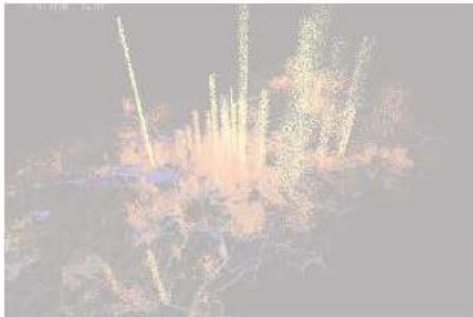


..... energia
energy

TECNICA | technical aspects
FORMA E TECNICA | form and technique



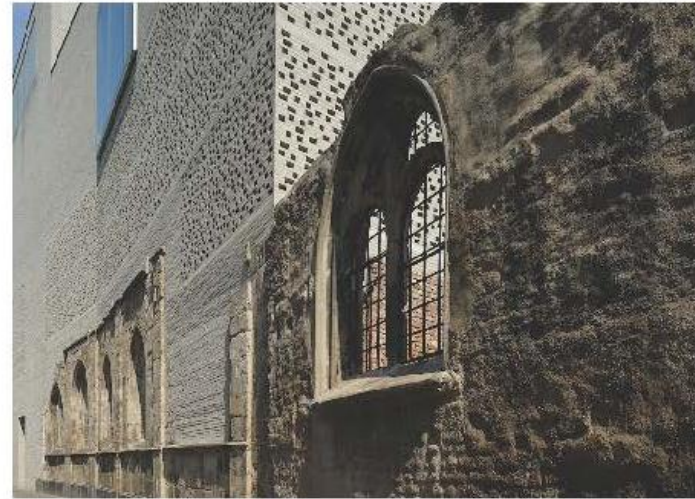
..... struttura
structure



..... tecnologia
technology

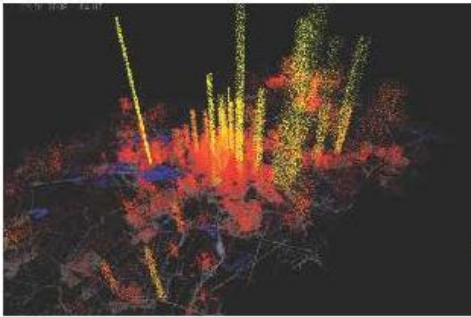


..... energia
energy





*** struttura
structure



*** tecnologia
technology



*** energia
energy



From Surface to Volume



Urban and architectural regeneration
Dimensions and approaches: Micro and Macro

Macro: Museums, Office Buildings, commercial centers, hospitals

Micro: the residential building sector

Macro: Museums, Office Buildings, commercial centers, hospitals



Museo de la Semana Santa, Hellin
Exit Architects



Swiss Re, Munich. BRT Architekten



Geox Breath Building, Milan
Dante Benini & Partners

Micro: the residential building sector



Social Housing, Paris



Casa a Morchiuso, Como

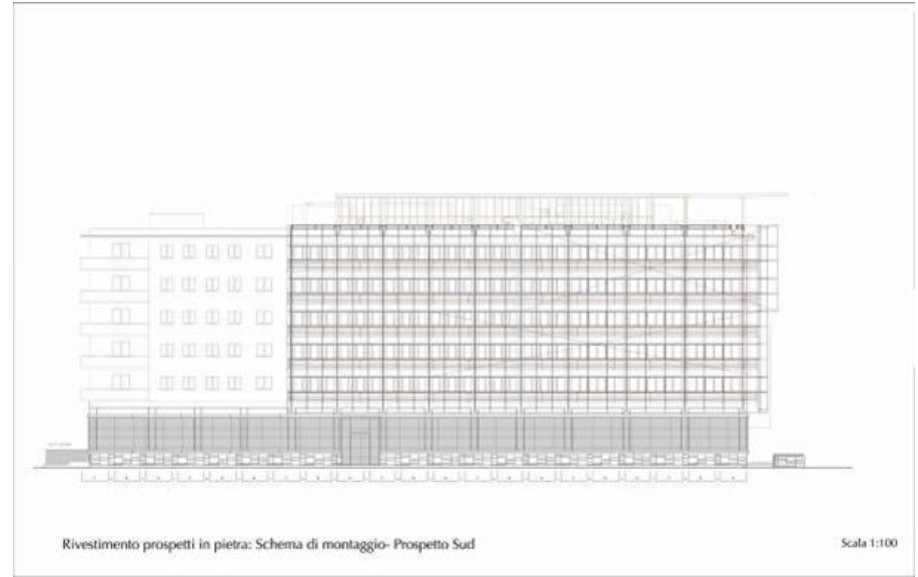
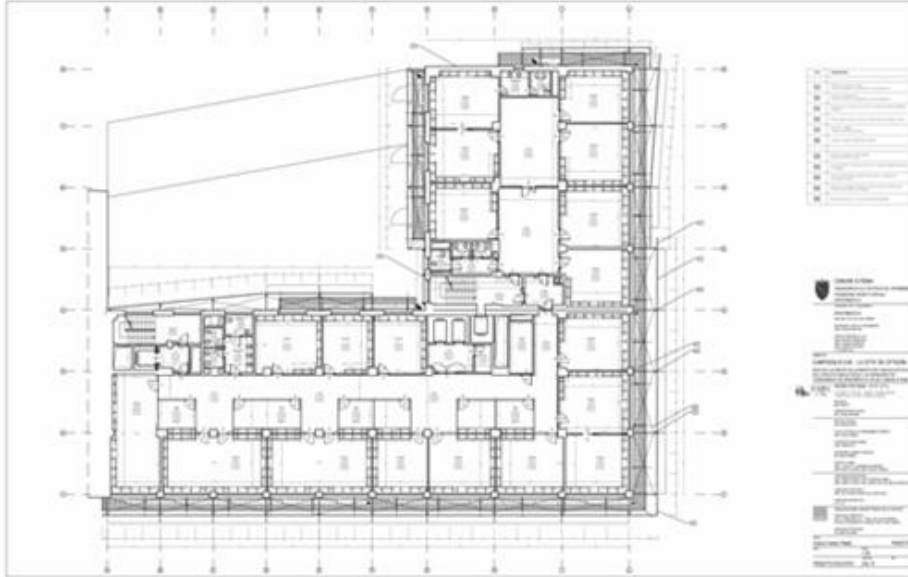


Social Housing in Rue Saint Antoine, Paris

Ex Manifattura Tabacchi, Rome

Designer: Aldo Aymonino. Place: Rome, Italy. Year: 2009





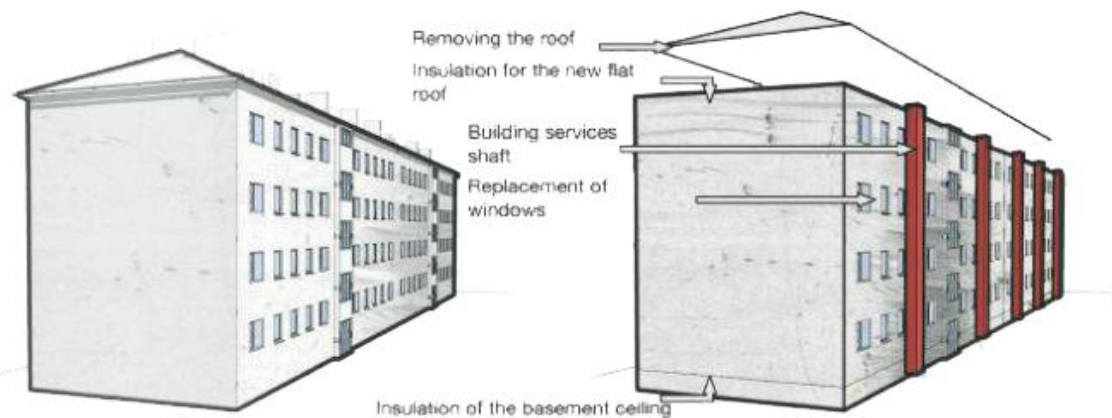


Residential complex _ Johann-Böhm-Straße, Kapfenberg

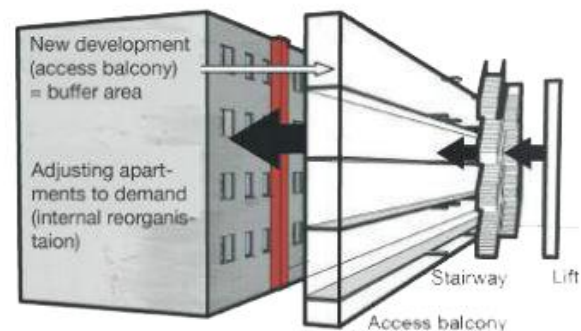
Designer: Nussmüller Architekten zt GmbH, Graz

Place: Johann-Böhm-Straße, Kapfenberg/A. Year: 2013





Existing Building - Johann Böhm Strasse Renovation: step 1



Renovation: step 2



Renovation: step 3

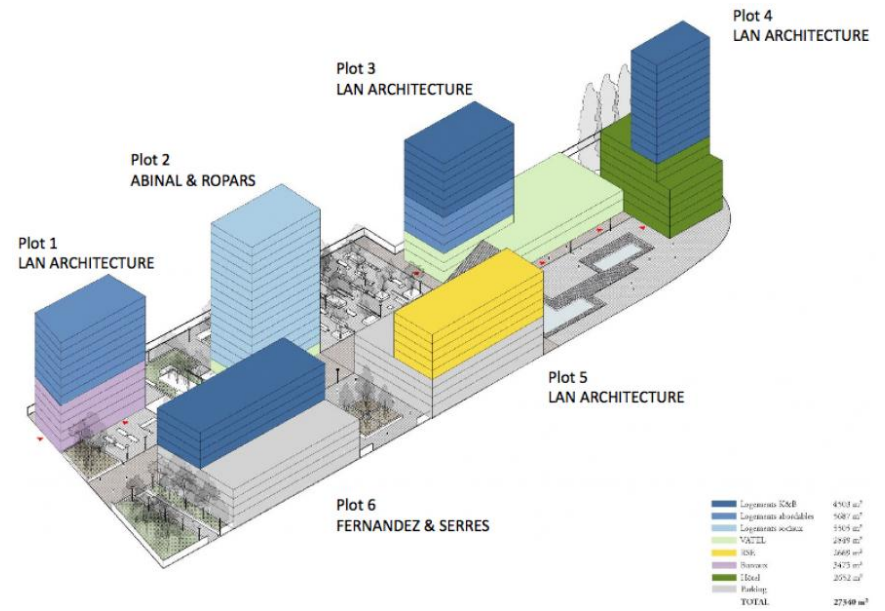


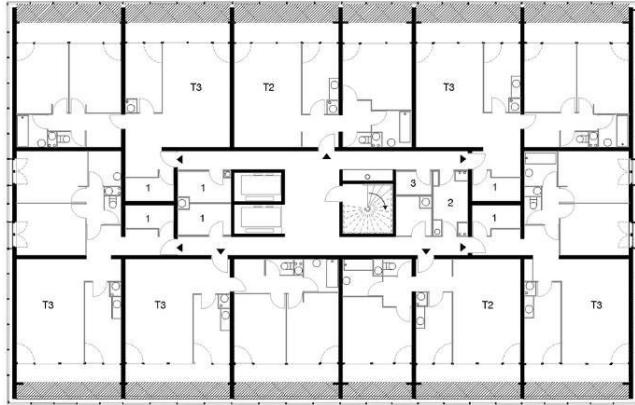
Renovation: step 4



**Riqualficazione urbana e architettonica a Lormont, Francia.
LAN Architecture, 2015**







Rigenerazione di un complesso di edilizia residenziale pubblica a Civitanova Marche (MC).





- Circolo per ragazzi
- Circolo per anziani
- Asilo/Ludoteca
- Mediateca
- Ufficio/Amministratore
- Sala Riunioni
- Negozi
- Bar/Ristorante

