

Politecnico di Torino Msc Degree ACC Atelier Architecture and Restoration AY 2022-23

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# Atelier ARCHITECTURE AND RESTORATION



The Atelier Architecture and Restoration aims to develop architectural conservation and reuse project designed through the contribution of two specific and complementary disciplines: **Restoration and Architectural and urban composition**.

The Atelier aims to guide students towards an **understanding of the values of the built heritage** fostering the design of solutions for sustainable and conscious conservation and reuse interventions in existing buildings.

## ACTIVITIES AND DEADLINES

The Atelier will consist of ex-cathedra lectures, **on-site visits, exercises, lessons** on specific topics, reviews, and meetings with experts, promoting active participation of students.

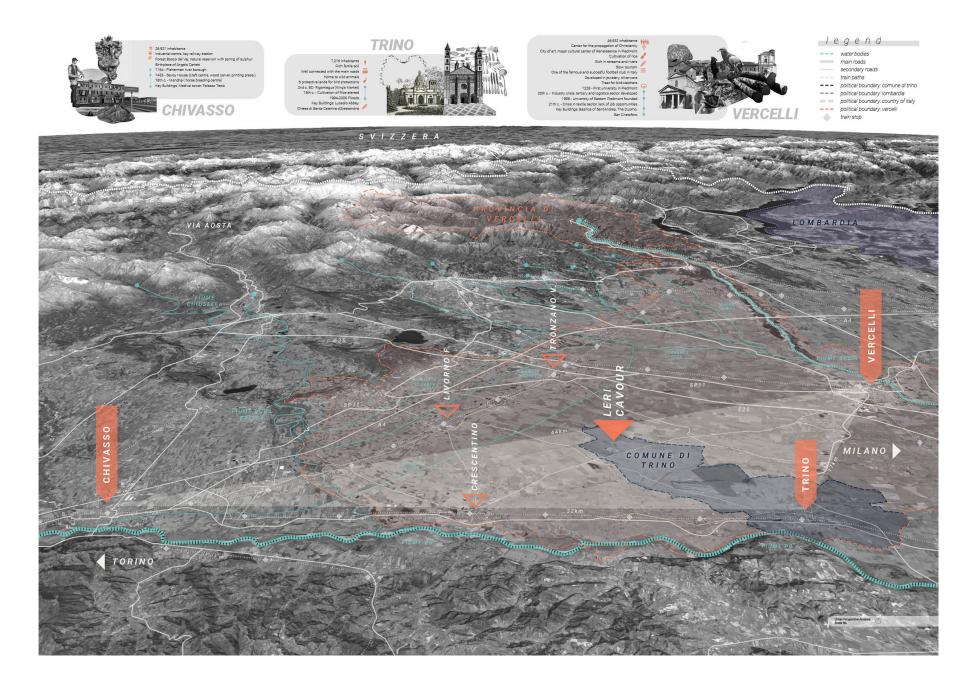
Starting from the **analysis** of the assets identified as case studies and of the **context** in which they are located, identifying their **strengths** and **weaknesses**, the students (divided into groups of maximum 3 people) will develop restoration and reuse projects compatible with the architectural and constructive characteristics of the assets and consistent with the identity features of the artefacts, paying particular attention to their functional vocation, past and future.

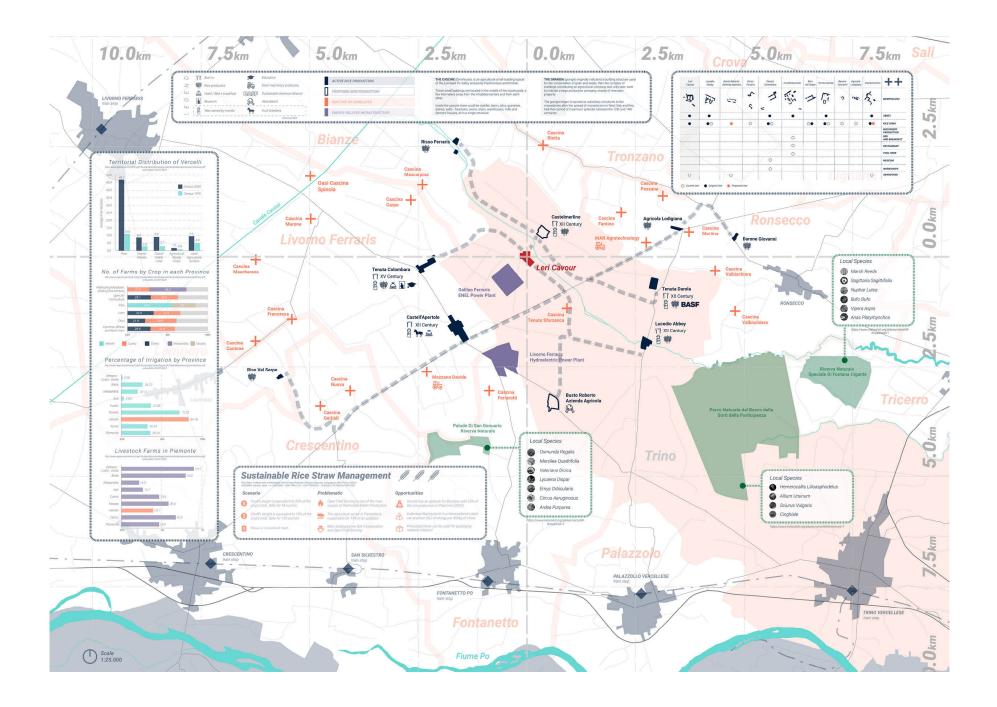
The projects will be **discussed** and **revised in itinere** with the lecturer throughout the Atelier. The final examination will consist of the presentation and discussion of the project developed.



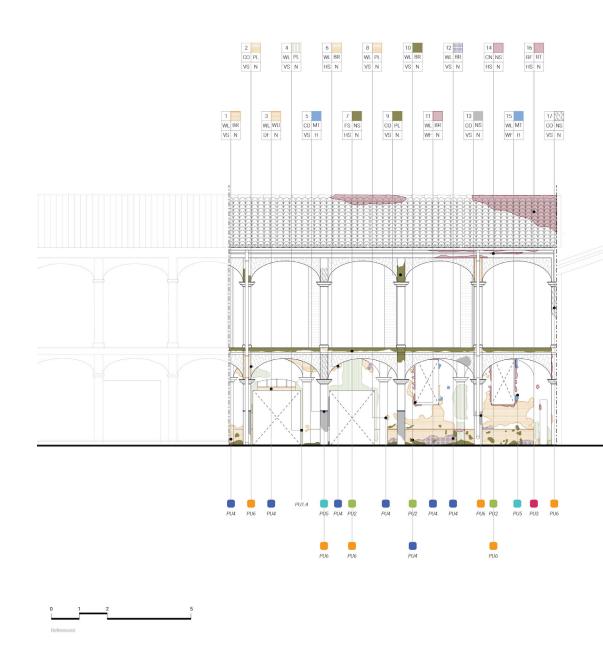
### METHODOLOGY

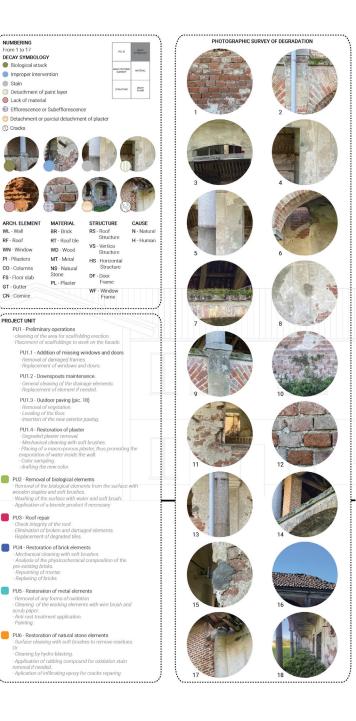
#### **\_STUDYING TERRITORY AND UNDERSTANDING HISTORY**





#### **DECAY ANALYSIS**





NUMBERING From 1 to 17

DECAY SYMBOLOGY Biological attack

Lack of material

ARCH. ELEMENT

WL - Wall

PF - Roof

WN - Window

CO - Columns

FS - Floor slab

GT - Gutter

CN - Cornice

PROJECT UNIT PU1 - Preliminary operations

PI - Pilasters

MATERIAL

BR - Brick

RT - Roof tile

WD - Wood

MT - Metal

NS - Natural Stone

PL - Plaster

Removal of damaged frames. Replacement of windows and doors. PU1.2 - Downspouts maintenance. General cleaning of the drainage elem Replacement of element if needed. PU1.3 - Outdoor paving (pic. 18) Removal of vegetation. Leveling of the floor. · insertion of the new exterior paving. PU1.4 - Restoration of plaster Degraded plaster removal.
Mechanical cleaning with soft brushes.

 drafting the new color. PU2 - Removal of biological elements

· Replacement of degraded tiles. PU4 - Restoration of brick elements

Scrub paper.
Anti-rust treatment application.
Painting.

· Cleaning by hydro-blasting.

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Pre-existing bricks. • Repointing of mortar.

· Replacing of bricks. PU5 - Restoration of metal elements

PU3 - Roof repair

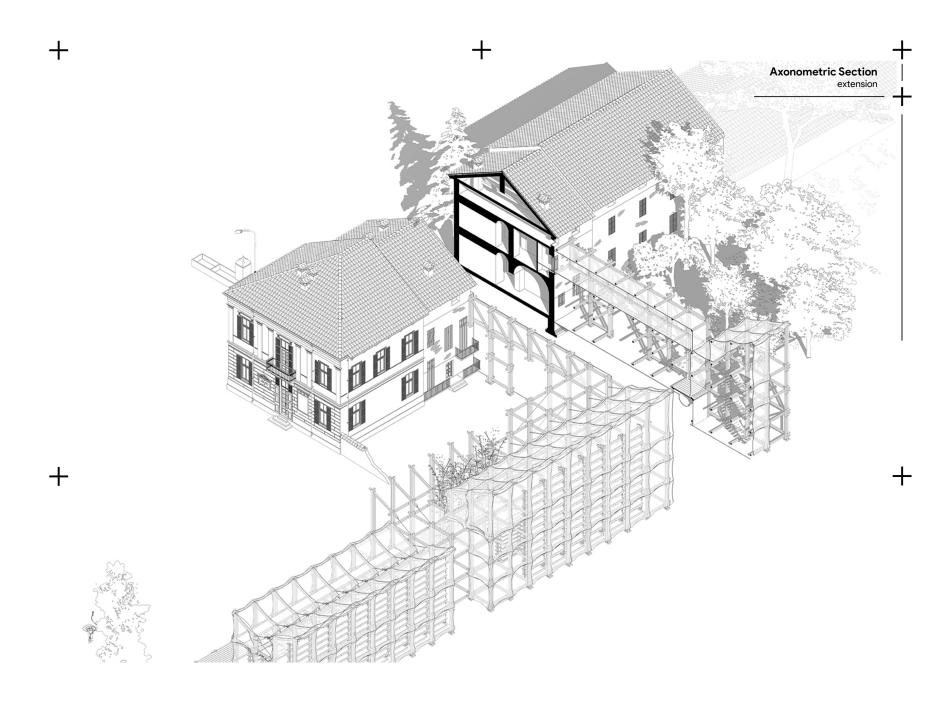
Cracks

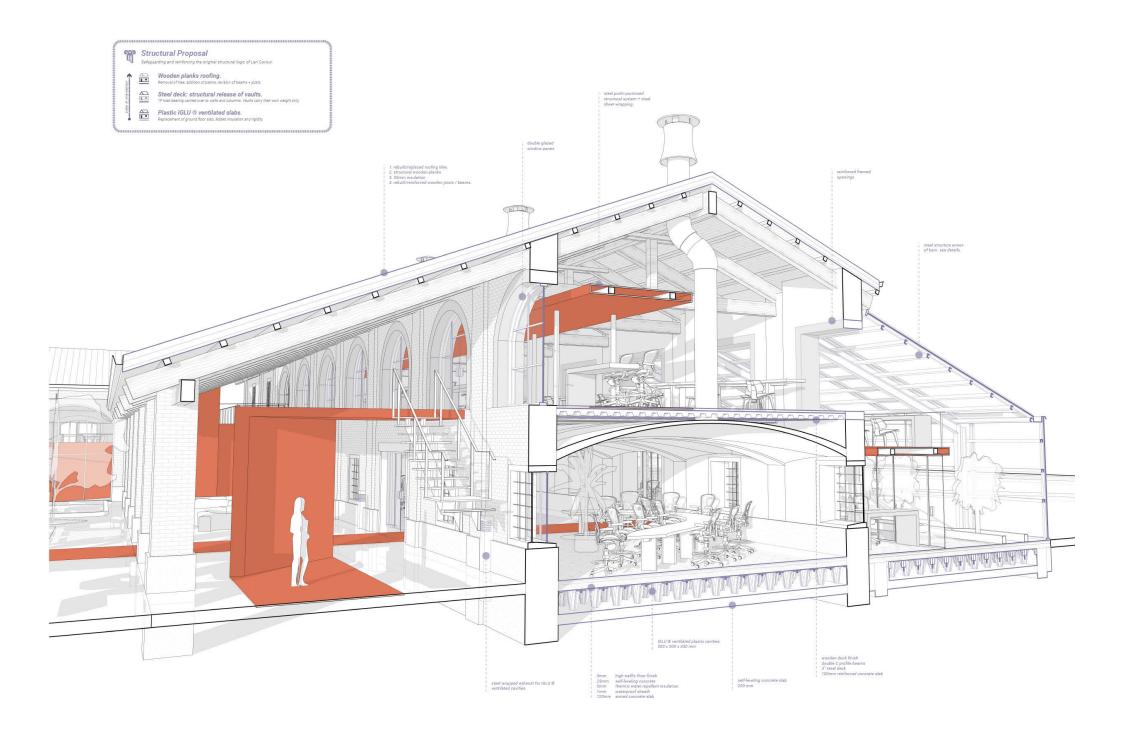
Improper intervention Stain

① Detachment of paint laver

Efflorescence or Subefflorescence

#### \_ANALYZING ARCHITECTURE





#### \_DESIGN PROJECT PROPOSAL

