



PORTFOLIO

# WORKS AND DESIGN & BUILD TENDERS

ITALY

CREATING A BETTER REALITY

**ATI** | Project



WE DESIGN  
NEW BUSINESS  
OPPORTUNITIES FOR  
OUR CUSTOMERS



400+

TENDERS WON



45%

SUCCESS RATE



€ 3 Billion

IN AMOUNT  
OF WORKS

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OUR CONSOLIDATED SUCCESS  
IN THE SECTOR IS BASED ON  
THE TEAM'S MULTIDISCIPLINARY  
EXPERTISE, KNOW-HOW RELATING  
TO INNOVATIVE MANAGEMENT  
TOOLS, CLOSE COLLABORATION  
WITH SUPPLIERS AND CONTINUOUS  
DEVELOPMENT AND INNOVATION

PISA  
MILAN  
BELGRADE  
ODENSE  
COPENHAGEN  
PARIS  
GENEVA  
TALLINN

## ▲ PROFILE

### Creating a better reality

Architecture, landscape and technology conceived as a source of inspiration and enrichment of everyday life.

**ATI Project** is an international firm specialized in **integrated design** in the field of architecture and engineering, committed to the development of **sustainable buildings** with a reduced environmental impact.

The studio was established in 2011 by **Branko Zrnic** and **Luca Serri**, founders dedicated to research in bioclimatic architecture and renewable energy.

In twelve years, the **team** has grown from **2 to 350 collaborators**.

The initial outline of the office is the same that still drives its growth today: a young, visionary, technological studio that

natively uses **BIM** to promote **multidisciplinary**, as well as **innovation** and sustainability.

The complexity and number of projects reflect the **internationality** of the studio, which today, in addition to its headquarters in **Pisa**, has offices in **Milan, Belgrade, Odense, Paris, Copenhagen, Geneva** and **Tallinn**.



14

YEARS OF CONSTANT GROWTH



25 Mln

TURNOVER IN EUROS



8

INTERNATIONAL OFFICES



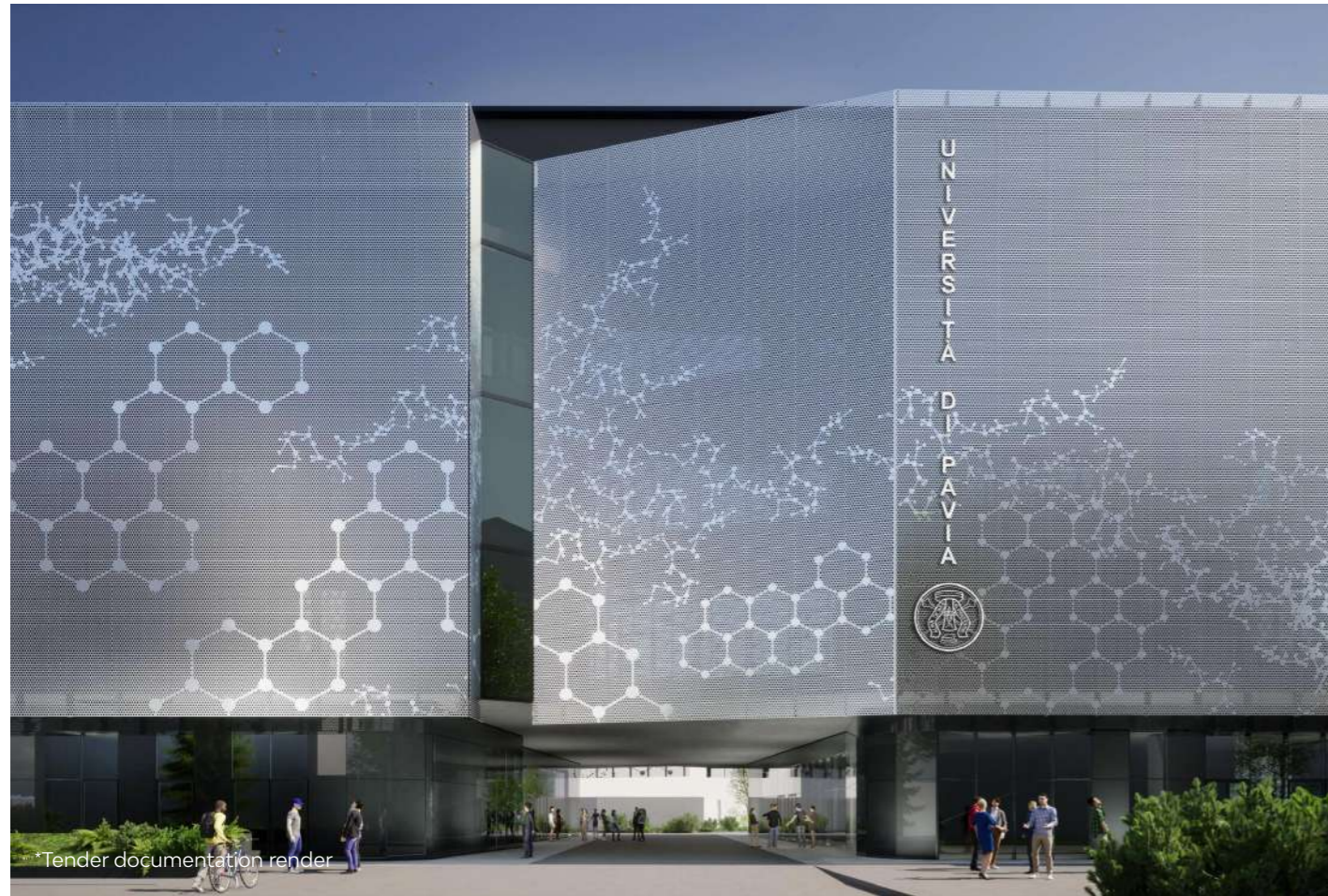
1+ Million of m<sup>2</sup>

OF COMPLETED OR ONGOING PROJECTS



FOCUS  
**ARCHITECTURE**





FOCUS ARCHITECTURE

## UNIPV Pharmaceutical Sciences Center

Integrated contract for the executive design and execution of works for the construction of the new Didactic Pole Institutes and Departments of Chemistry and Pharmaceutical Sciences

\*Final design and tender basis render: Manens Spa - Studio Architetti Mar

**LOCATION**  
Pavia, Italy

**TYPE OF INTERVENTION**  
Education

**CONTRACTING AUTHORITY**  
University of Pavia

**CONTRACTOR**  
ITI Impresa Generale Spa

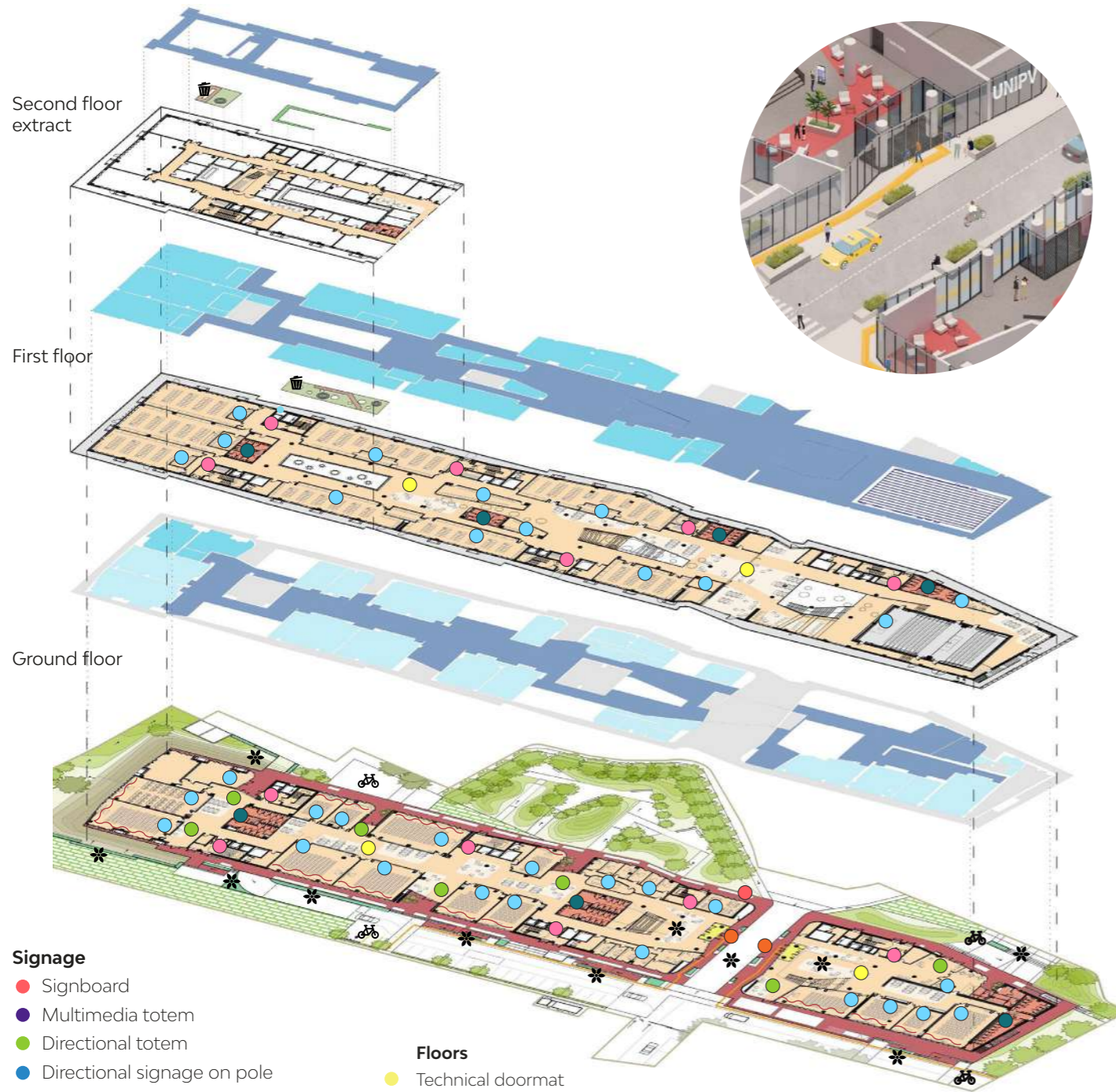
**BUDGET**  
€ 48.3 mln

**SERVICES**  
Technical improvements project, executive design

**TYPE OF CONTRACT**  
Design & Build



## Usability and functionality of the building



### Signage

- Signboard
- Multimedia totem
- Directional totem
- Directional signage on pole
- Directional signage on the ceiling
- Directional signage on the wall
- Pictogram
- Permanent signage on the wall

### Signage for disabled people

- Tactile map
- Route loges

### Additional elements

- ✱ Modular planters x 22
- 🚲 Bike racks x 10
- 🗑️ Baskets x 5

### Floors

- Technical doormat
- LVT with other colours
- Continuous multi-layer self-laying LVT
- Porcelain stoneware slabs 60x60 cm
- Beola stone slabs
- Draining blocks

### Countertops

- Modular 120x60 coloured/white
- Modular 120x60 washable
- Modular smooth white with hidden joints
- Sound insulation with wooden slats

### Shading

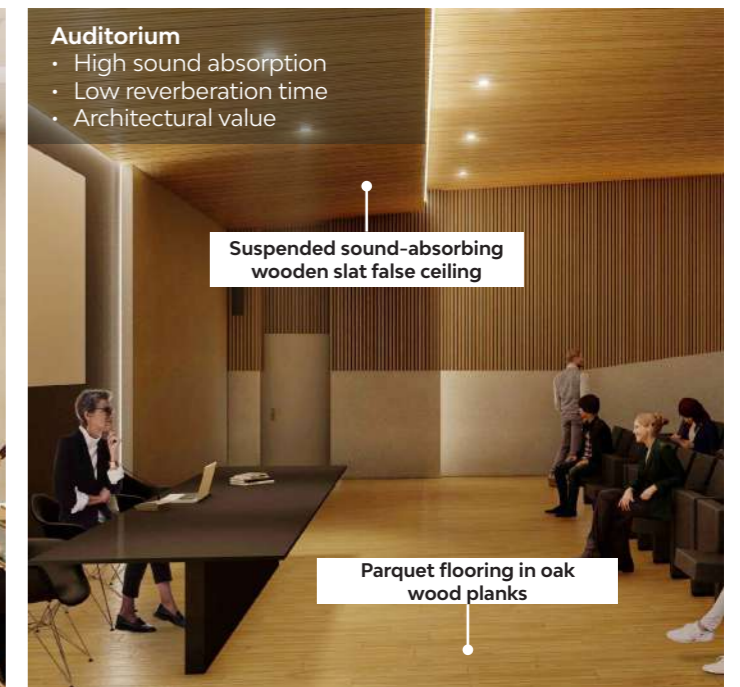
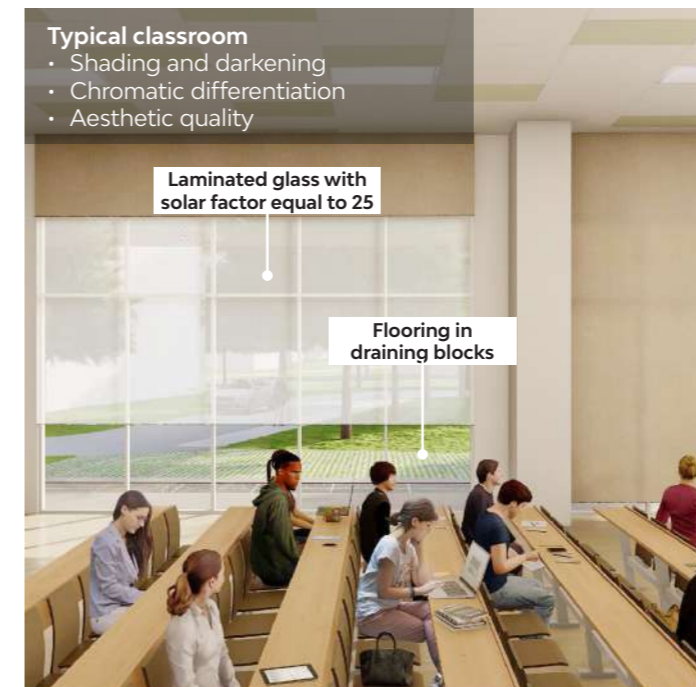
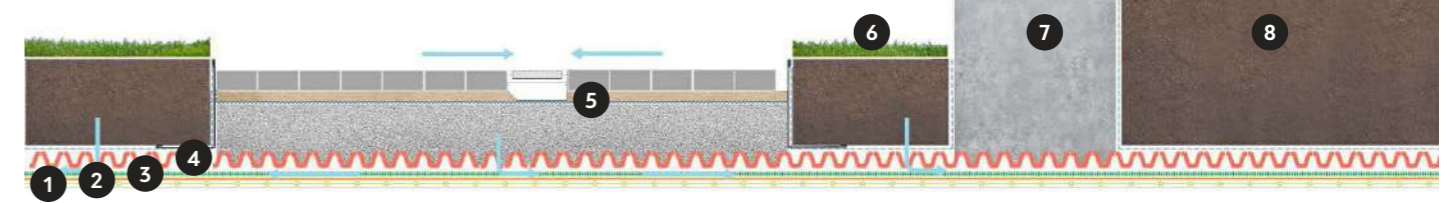
- Double motorized roller tent

### Indoor short planters

- Green court
- Route in self-locking
- Flower box on balcony
- Flower pot/shrub ring seat

### Continuous drainage system inside the courtyard

1. TNT compensation layer
2. Anti-root waterproofing
3. Accumulation and protection felt
4. Drainage and aeration layer
5. Self-locking path on a bed of sand and gravel
6. Natural lawn
7. Concrete seat
8. Filter cloth
9. Shrubby





\*Tender documentation render



\*Tender documentation render



FOCUS ARCHITECTURE

## School Complex in Via Ozanam

Integrated contract for the definitive and executive design, safety coordination in the design phase and construction of the works of the new primary school in via Ozanam in the municipality of Concorezzo

\*Preliminary and tender documentation render: J+S Spa Architecture & Engineering

### LOCATION

Concorezzo, Italy

### TYPE OF INTERVENTION

Education

### CONTRACTING AUTHORITY

Municipality of Concorezzo

### CONTRACTOR

SELI Manutenzioni Generali Srl

### BUDGET

€ 12 mln

### SERVICES

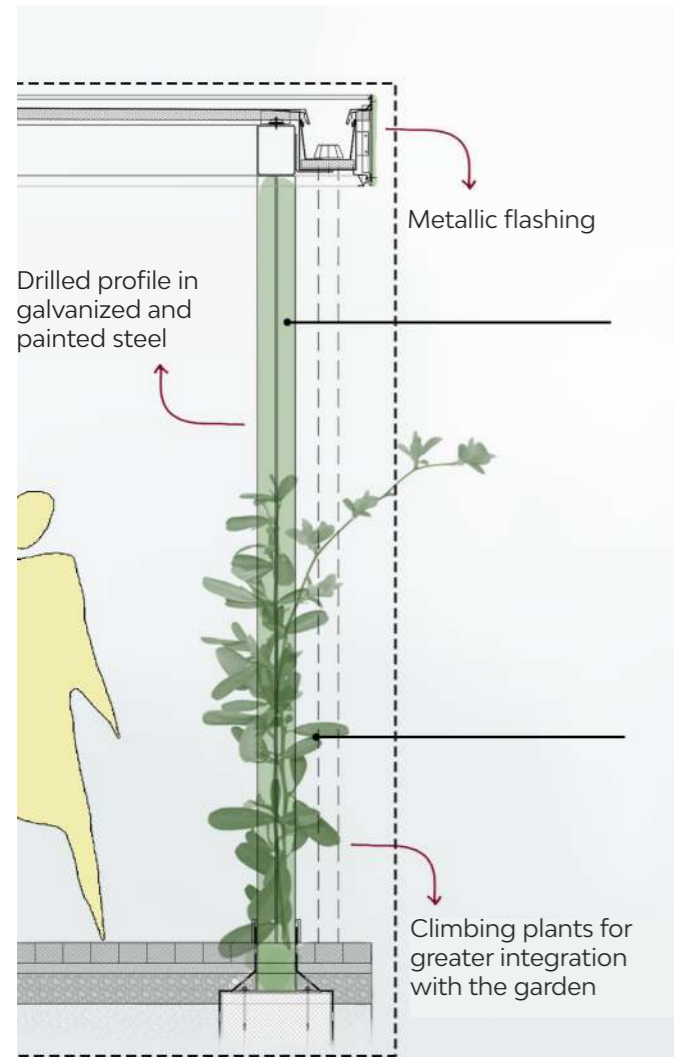
Technical improvements project, definitive and executive design

### TYPE OF CONTRACT

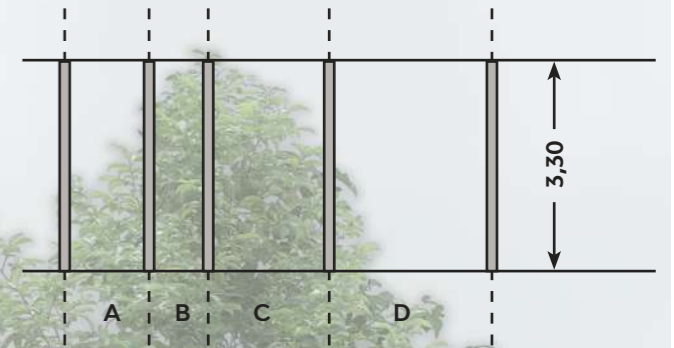
Design & Build

Improvement of external areas

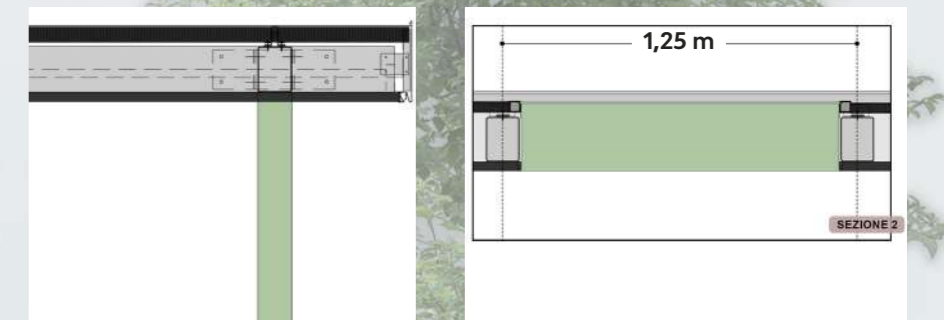
Flowering of the shelter



**MODULATION  
STEEL CABLES**  
 A= 0,60 m  
 B= A/2= 0,30 m  
 C= A+B= 0,90 m  
 D= Ax2= 1,20 m



The image of "section 1" shows, however, a detail of the connection of the horizontal, vertical elements and sandwich panels.



Path that leads to the shelter intended for carrying out outdoor educational activities





\*Tender documentation render



\*Tender documentation render



Construction work for the new "Fabio Besta" Middle School

\*Project and tender documentation render: Teco + Partners Stp Srl

▲ FOCUS ARCHITECTURE

## "Fabio Besta" School Complex

**LOCATION**  
Bologna, Italy

**BUDGET**  
€ 18.1 mln

**TYPE OF INTERVENTION**  
Education

**SERVICES**  
Technical improvements project

**CONTRACTING AUTHORITY**  
Municipality of Bologna

**TYPE OF CONTRACT**  
Design & Build, Construction

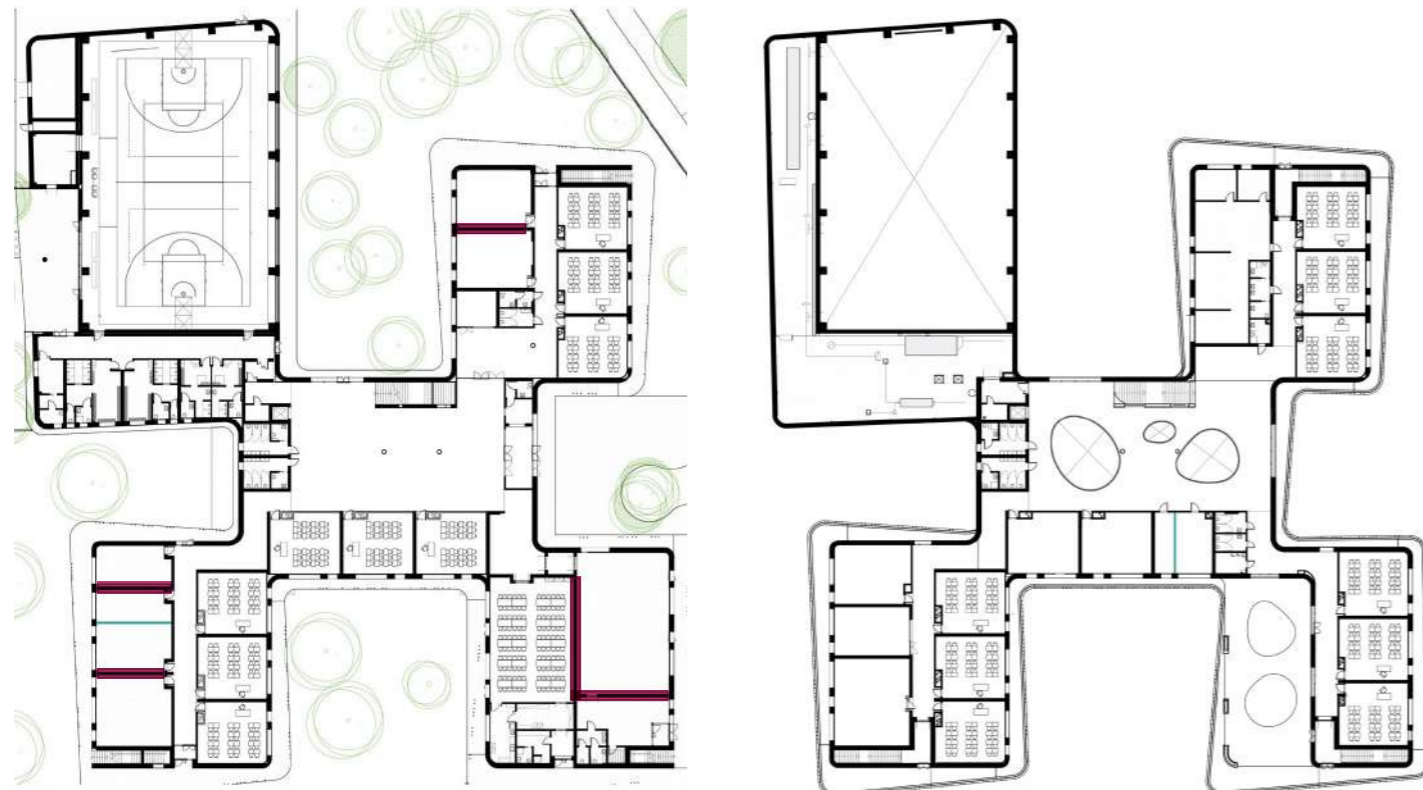
**CONTRACTOR**  
ITI Impresa Generale Spa



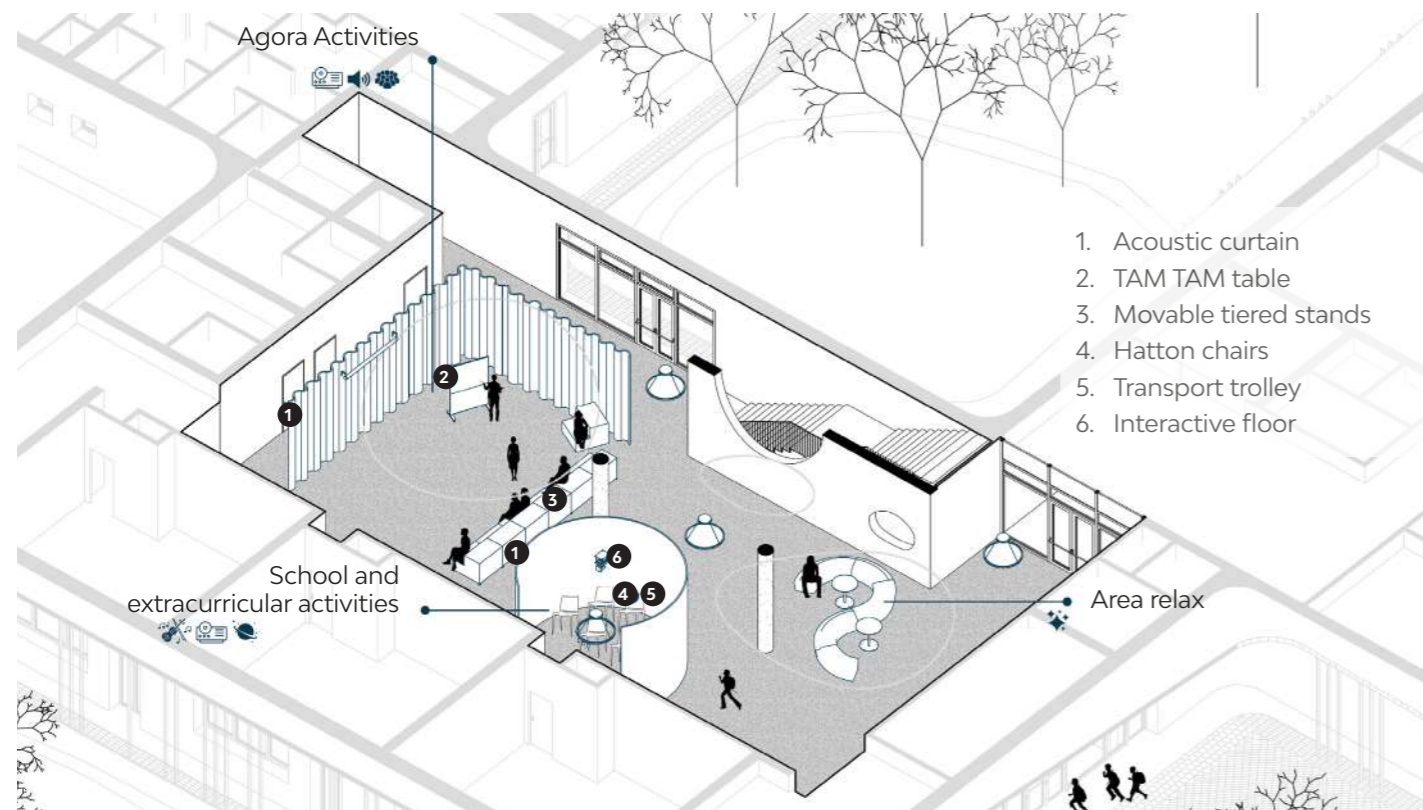
\*Tender documentation render

## Multifunctionality of spaces

### Operable soundproof walls

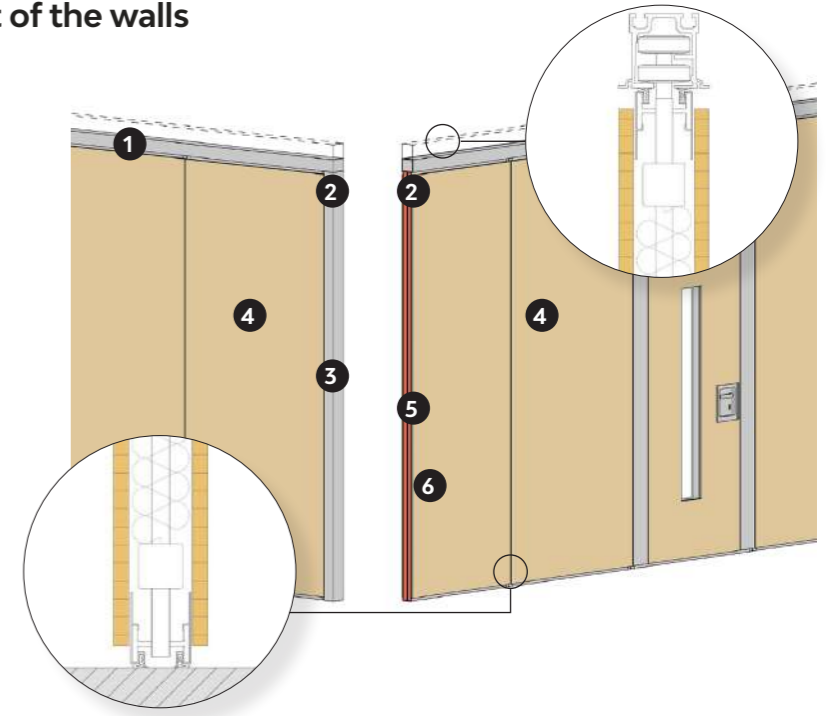


### Hall configuration



### Technological solution and movement of the walls

- 1. Horizontal seals**
  - Panel stability
  - Maximum acoustic insulation
- 2. Corner seals**
  - Elastic corner elements that increase stability and sound insulation
- 3. Vertical seals**
  - Flexible Vertical Sealing Tapes
  - Tapes that stretch to ensure effective interlocking
- 4. Roofing panels**
  - Low weight that allows free oscillation
  - Surface can be coated or covered with any material
- 5. Sound insulation material**
  - Customizable according to acoustic requirements
  - Requested, choice of 60 dB type
- 6. Chassis**
  - In aluminum and steel



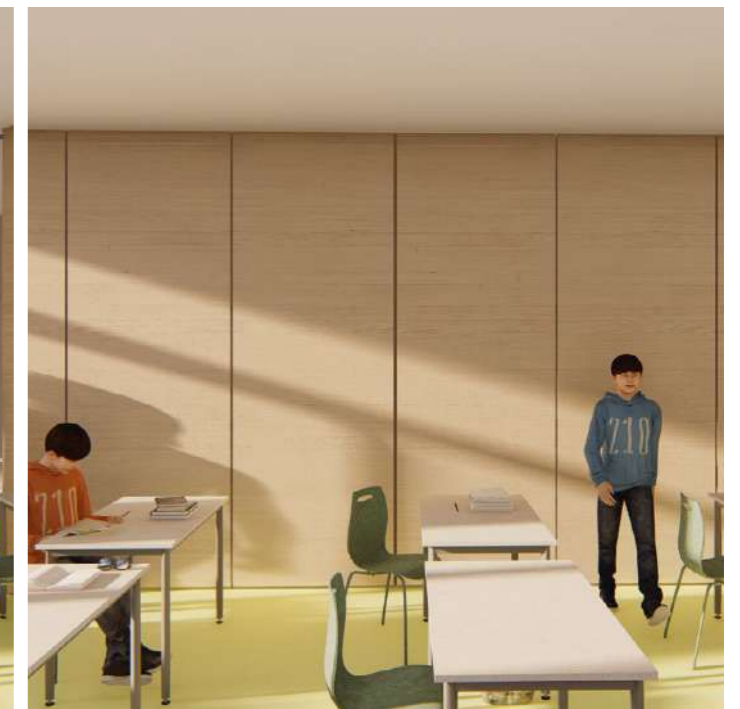
#### Advantages

- Greater flexibility of teaching spaces
- Reduced thickness (88 mm) and overall size
- Insulation (Rw = 60 dB) and acoustic comfort
- Wide choice of materials and finishes
- Reduced weight and easy maneuverability
- Reaction to fire (EI 30)
- Single operation

### Configuration with open operable wall



### Configuration with closed operable wall





FOCUS  
CONSTRUCTION  
SITE



Photo of the current state



\*Tender documentation visualization



▲ FOCUS CONSTRUCTION

## Venetian Arsenal Historical Archive Restoration

Works for the restoration and redevelopment of the ASAC - Historical Archive of Contemporary Arts of the Venice Arsenal

**LOCATION**  
Venice, Italy

**BUDGET**  
€ 24.6 mln

**TYPE OF INTERVENTION**  
Culture

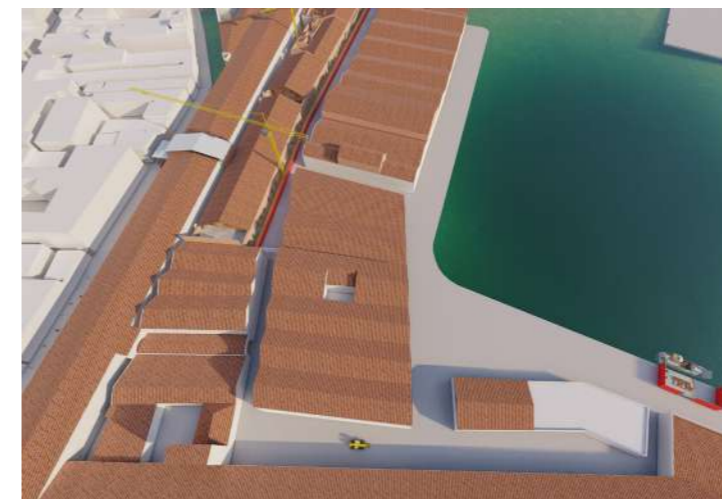
**SERVICES**  
Technical Improvements Project

\*Tender documentation project and visualization: TA Srl  
Torsello Architettura - Seres di Martina Serafin Sas - Ottavio Di Blasi & Partners Srl - Milan Ingegneria Spa - TFE Ingegneria Srl

**CONTRACTING AUTHORITY**  
Fondazione La Biennale di Venezia

**TYPE OF CONTRACT**  
Construction

**CONTRACTOR**  
Setten Genesis Spa



## Procurement plan

### Detailed analysis for structural works: Concrete casting

CONCRETE CASTING					
Element	Quantity (mc)	Transport	Travels	Productivity	Layout days
Slab Area 1	299	Concrete mixer capacity 12 m <sup>3</sup> on barge	25	30 (mc/gg)	10
Micropiles Area 1	136		12	100 (mc/gg)	2
Plinths Area 1	6,2		1	20 (mc/gg)	1
Pillars Area 1	64		9	20 (mc/gg)	7
Slabs Area 1	68,4		6	50 (mc/gg)	2
Xlam cap Area 1	32,2		3	150 (mc/gg)	1
Beams Area 1	2		3	20 (mc/gg)	2
Slab Area 2	372		31	30 (mc/gg)	13
Plinths Area 2	127		11	20 (mc/gg)	3
Pillars Area 2	15,7		2	20 (mc/gg)	1
Slabs Area 2	107		9	50 (mc/gg)	3



Arrival and movement to the construction site: x 1



timetable: 19.00-23.00 - 04.00-8.00

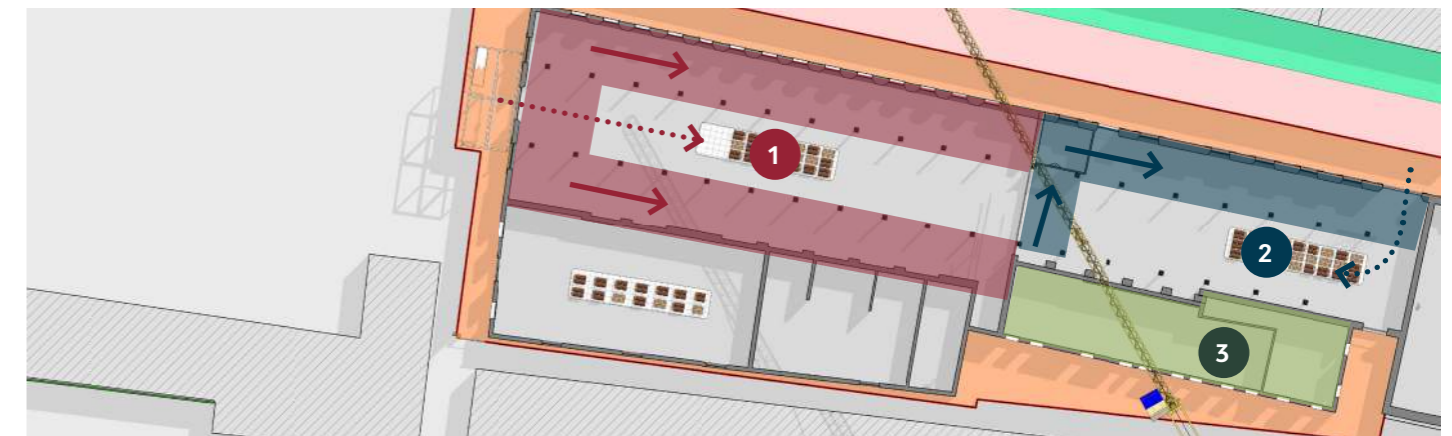
Construction site castings: x 1



timetable: 19.00-23.00 - 04.00-8.00

### Detailed analysis for structural works: Xlam slabs

SOLAI XLAM								
Area	Quantity	Transport	Travels	Productivity	Days of pose	Storage 1	Storage 2	Storage 3
1	377 mq	mototopo 220q	3	200 (mq/gg)	3	x		
2	275 mq	with crane with capacity of 9q	4	200 (mq/gg)	2		x	
3	165 mq		2	200 (mq/gg)	1			x



Arrival and movement to the construction site: x 1



timetable: 6.00-8.00

Installation Area 1 (red) and 2 (blue): x 2



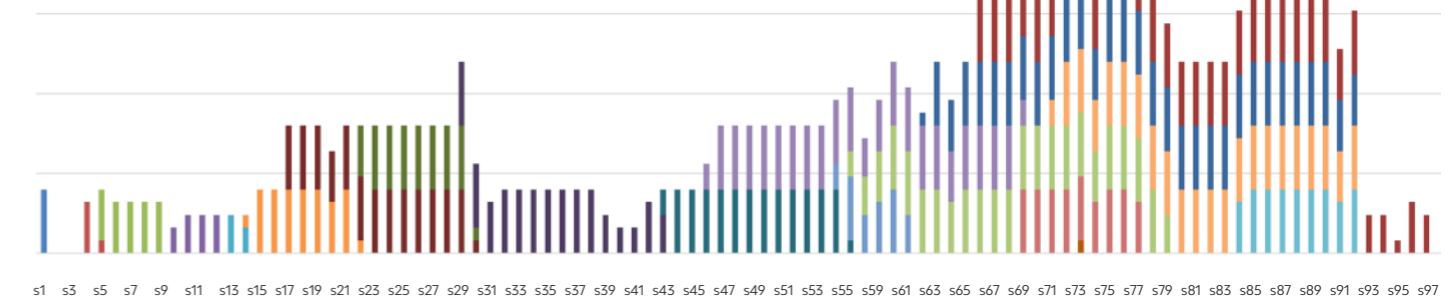
timetable: no limitations

Installation Area 3 (green): x 1

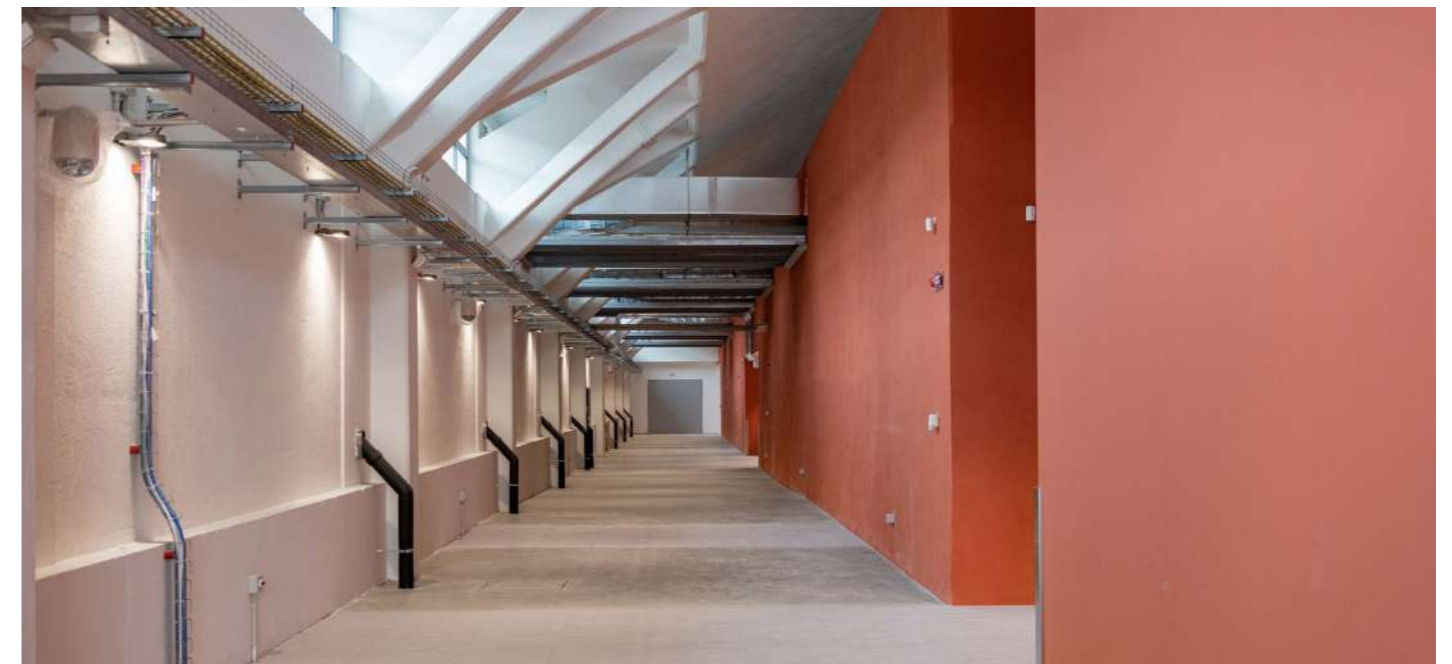


## 01 Sizing of storage areas

### Storage area load histogram



- Cop Waste
- Concrete
- XLAM
- Interior Floors and Cladding
- Waste Partition walls
- Foundations
- Restoration materials
- Windows
- Waste Structures
- Reinforced concrete structures
- Insulation and waterproofing
- Other materials
- Floor and slab waste
- Steel structural components
- Mechanical systems
- Earthmoving waste
- Reinforced plaster
- Internal partitions
- Electrical and special systems



▲ FOCUS CONSTRUCTION

## ECMWF Data Center

Construction of the ECMWF Data Center through the recovery of the real estate complex of the former Manifattura Tabacchi in Bologna

**LOCATION**  
Bologna, Italy

**TYPE OF INTERVENTION**  
Industrial

**CONTRACTING AUTHORITY**  
Finanziaria Bologna Metropolitana Spa

**CONTRACTOR**  
Frimat Spa - Site Spa -  
Gianni Benvenuto Spa

**BUDGET**  
€ 37 mln

**SERVICES**  
Technical improvement project,  
construction design

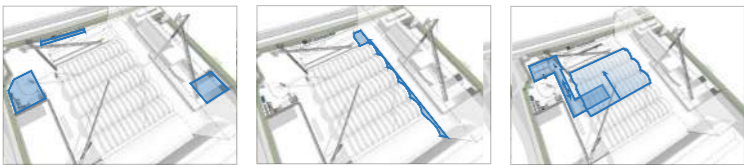
**TYPE OF CONTRACT**  
Design & Build

\*Tender documentation render: Gmp Architekten Von Gerkan, Marg And Partner - Studio T - Werner Sobek Stuttgart - Land Italia


# Construction site organization & logistics

**PHASE 1**


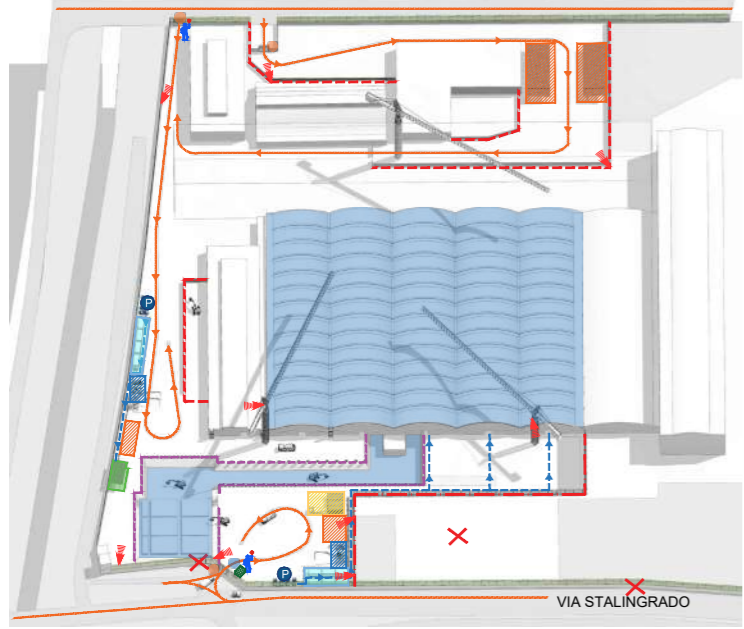
Site construction    Demolitions    Excavations & Consolidations



West entrance view

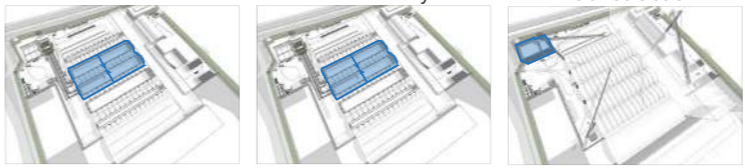


View of material storage area

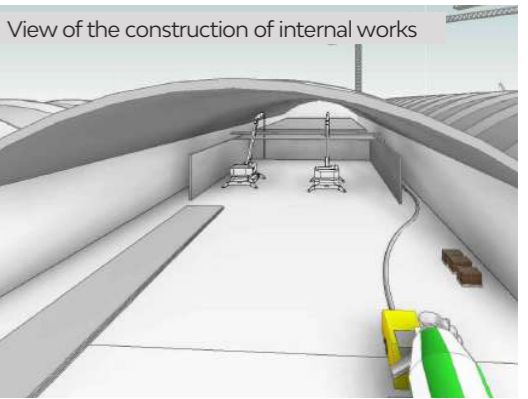



**PHASE 3**

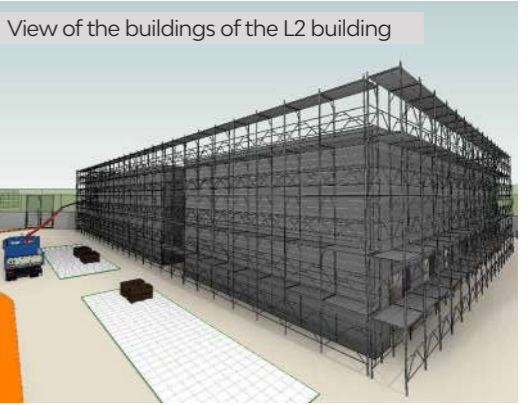
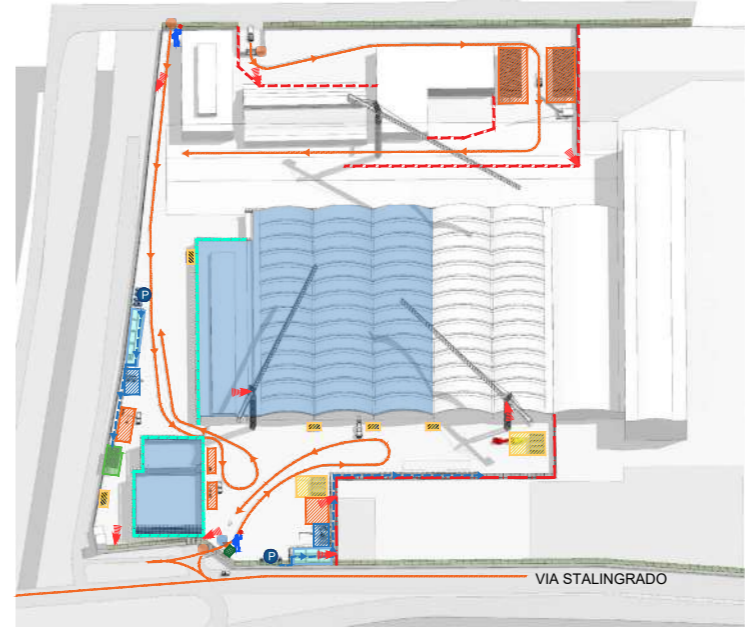
Internal works    Installation of systems    L2 Construction



View of the construction of internal works




View of the buildings of the L2 building





**PHASE 2**


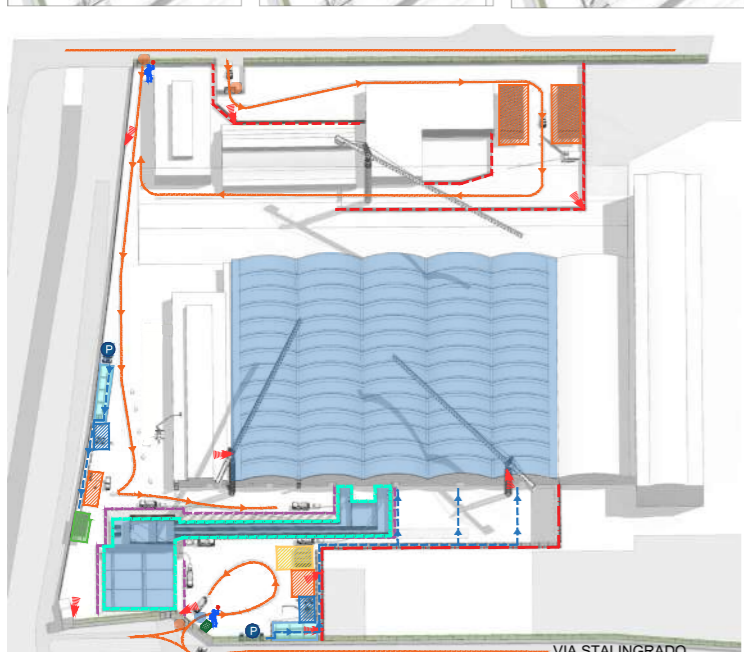
Construction of foundations    Consolidation Building L1    Consolidation & Construction of roofing



View of material storage area




View of material storage area





**PHASE 4**


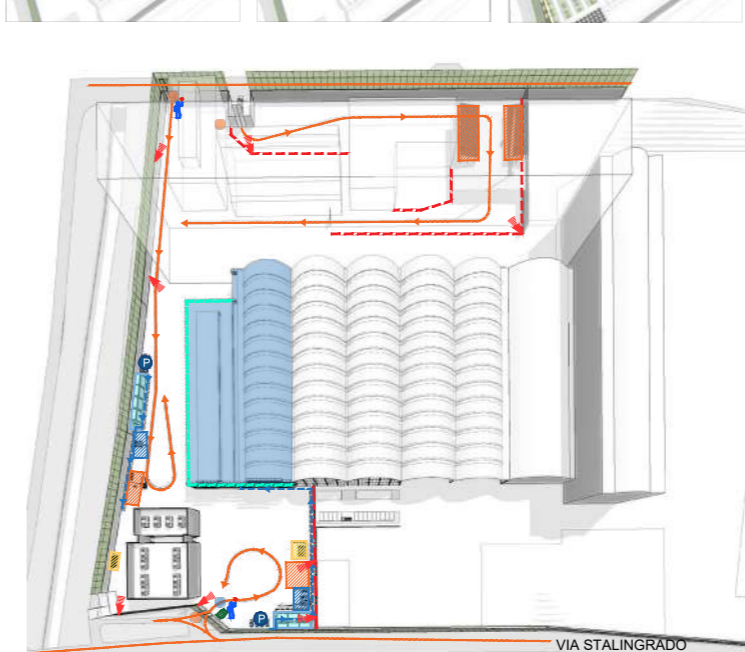
Building Delivery B2, B3 & L2    Installation of systems buildings B1&L1    Scanning and external works

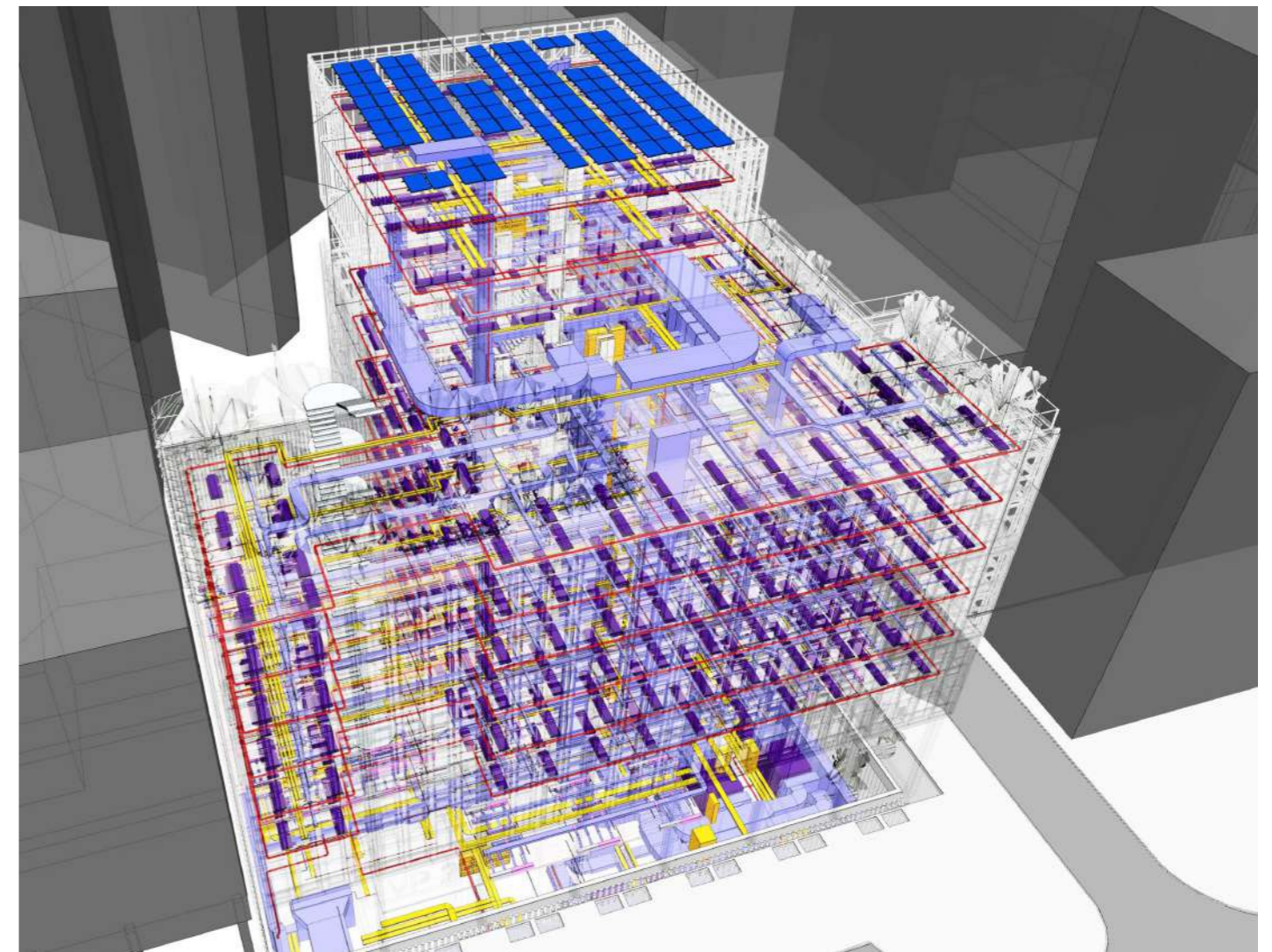
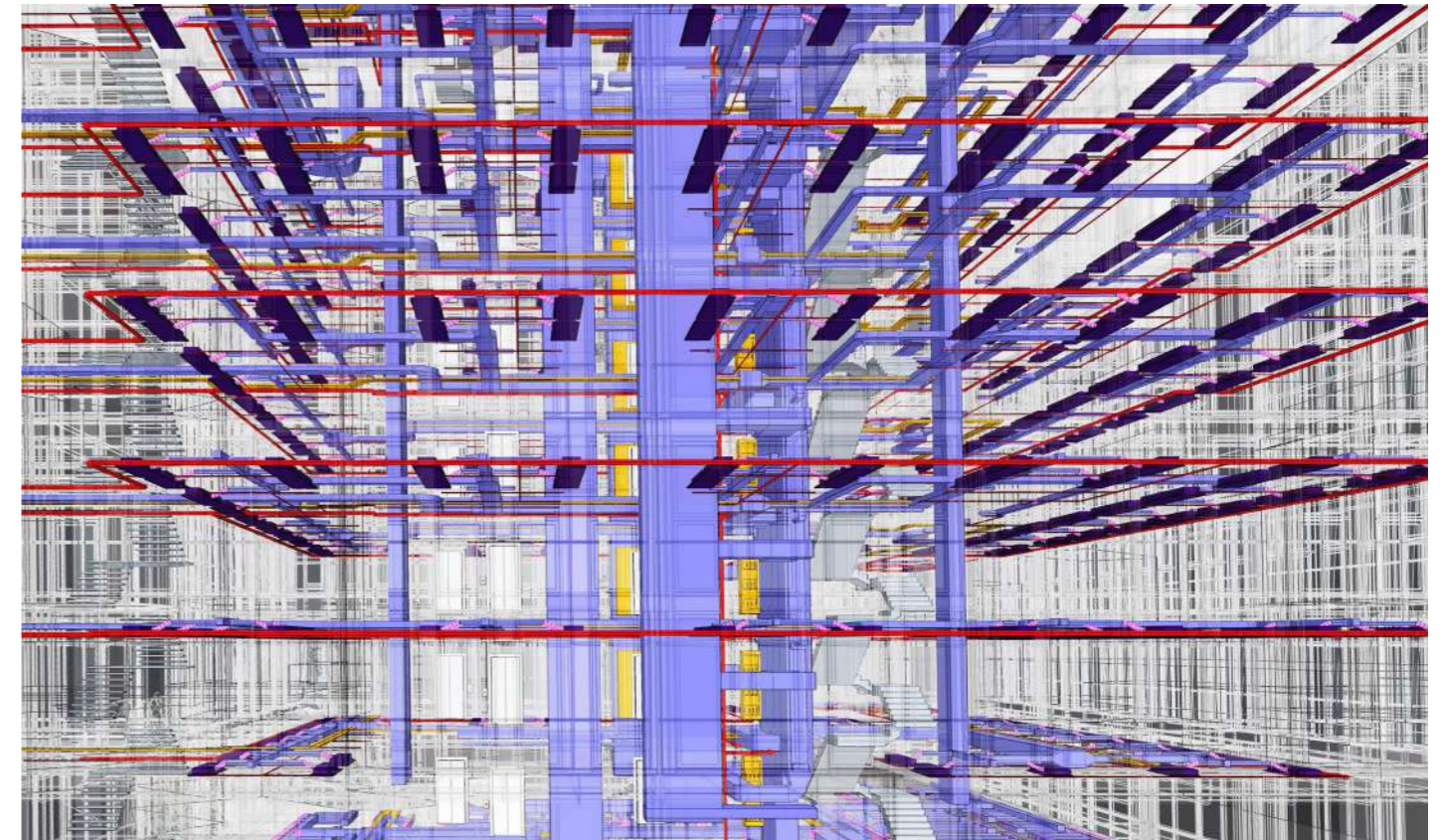
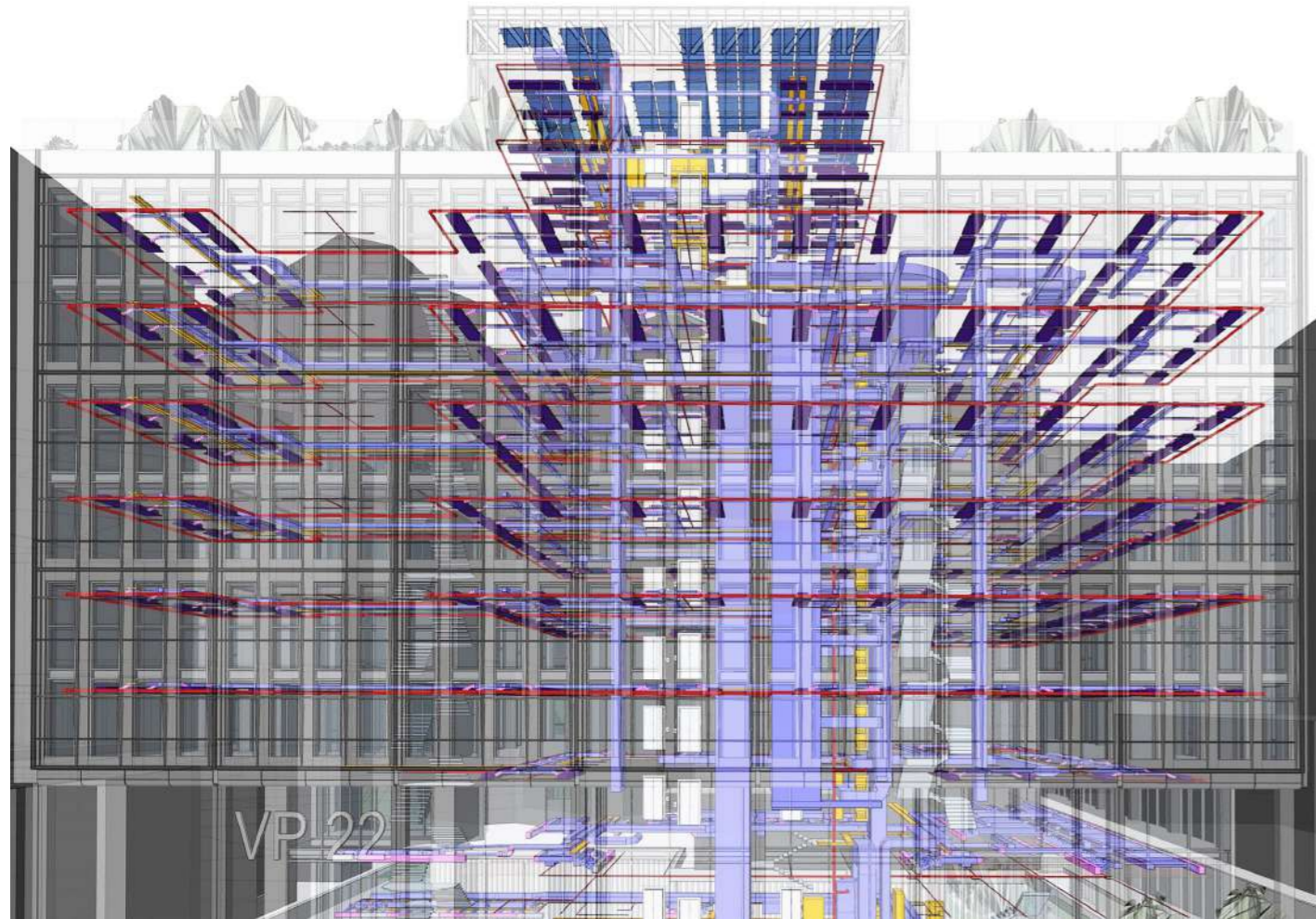


View of material storage area



Scanning view



▲ FOCUS CONSTRUCTION

## VP22 Building

Construction of the tower for A.M. Holdings, near Milan Central Station

**LOCATION**  
Milan, Italy

**BUDGET**  
€ 30 mln

**TYPE OF INTERVENTION**  
Offices

**SERVICES**  
Technical improvements project, construction BIM

**CONTRACTING AUTHORITY**  
AM Holdings

**TYPE OF CONTRACT**  
Design & Build

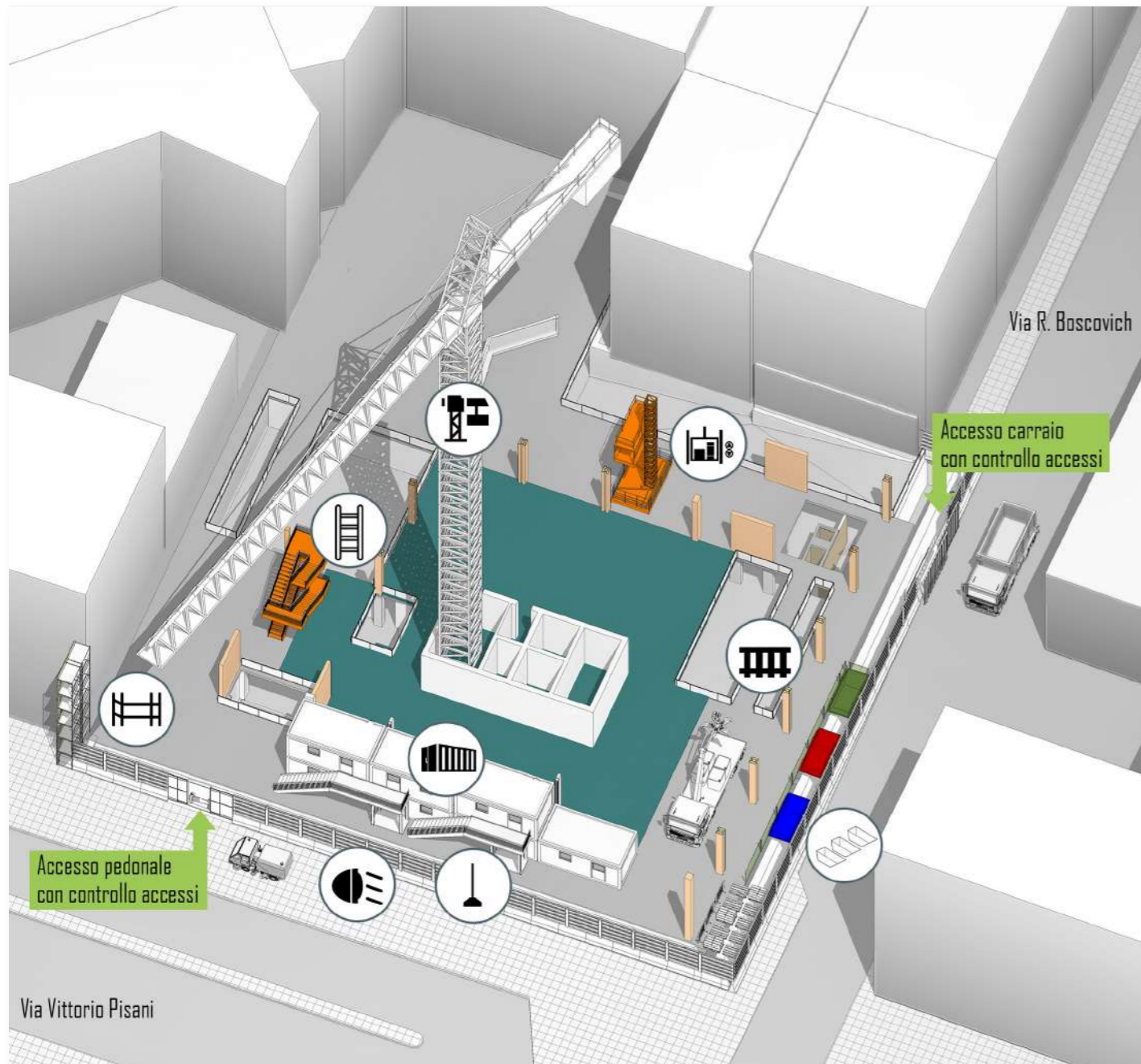
**CONTRACTOR**  
Ediltecnorestauri










\*Tender documentation project: Tectoo Srl - Milan Ingegneria Srl - Ariatta Ingegneria Dei Sistemi Spa - Ariatta Ingegneria Dei Sistemi Spa - Erika Skabar



## Construction site organization & layout

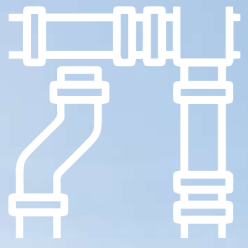
Construction site layout



- |   |  |   |                          |  |   |
|---|--|---|--------------------------|--|---|
|  | Signal lantern   |  | Construction site hoists |  | Construction site shacks in phase 2                 |
|  | Differentiated skip bins and waste material storage area |  | Parapets                 |  | Construction site fence H.3mt on new jersey barrier |
|  | Construction site ladder                                 |  | Crane                    |  | Scaffolding with sheet metal with safety net        |

BIM Perspective Views





# FOCUS SYSTEMS





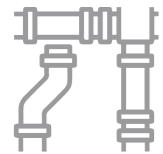
\*Tender documentation render



\*Tender documentation render



Tender documentation render



▲ FOCUS IMPIANTI

## Dipartimento di Scienze Veterinarie UNIPI

Works for the completion of the Department of Veterinary Sciences, comprehensive of external areas and urbanization works in San Piero a Grado, Pisa, Italy

\*Tender documentation project and render: Mythos Consorzio Stabile-Tecnicaer Engineering - Politecnica

**LOCATION**  
Pisa, Italy

**TYPE OF INTERVENTION**  
Education

**CONTRACTING AUTHORITY**  
University of Pisa

**CONTRACTOR**  
ITI Impresa Generale Spa

**BUDGET**  
€ 39.2 mln


**SERVICES**  
Technical improvements project


**TYPE OF CONTRACT**  
Design & Build


## Lighting quality and aesthetics


- 


**3F Filippi Linda**  
DALI technology  
Power consumption 28 W  
Luminous flux 4340 lm  
Color temperature 4000 K  
Efficiency 155 lm/W
- 

**Zumtobel Vivo II**  
DALI  
Power 27 W - Flux 2700 lm  
Temperature 4000 K - Eff. 102 lm/W
- 

**Tecmar Agape**  
DALI  
Power 35 W - Flux 4049 lm  
Temperature 4000 K - Efficiency 127 lm/W
- 


**Zumtobel Amphibia**  
DALI technology  
Power consumption 17 W  
Luminous flux 2730 lm  
Color temperature 4000 K  
Efficiency 162 lm/W
- 

**Zumtobel Panos**  
DALI technology  
Power consumption 19 W  
Luminous flux 2619 lm  
Color temperature 4000 K  
Efficiency 138 lm/W
- 

**Thorn Omega Pro 2 Tunable White**  
DALI technology  
Power consumption 35 W  
Luminous flux 4450 lm  
Color temperature 2700/6500 K  
Efficiency 92 lm/W
- 

**Thorn Omega Pro 2**  
DALI technology  
Power consumption 35 W  
Luminous flux 4450 lm  
Color temperature 4000 K  
Efficiency 127 lm/W
- 

**Zumtobel SLOTLIGHT D800**  
DALI technology  
Power consumption 63 W  
Luminous flux 6333 lm  
Color temperature 4000 K  
Efficiency 101 lm/W
- 

**Zumtobel SLOTLIGHT D1500**  
DALI technology  
Power consumption 92 W  
Luminous flux 9407 lm  
Color temperature 4000 K  
Efficiency 102 lm/W
- 

**Zumtobel SLOTLIGHT D1200**  
DALI technology  
Power consumption 71 W  
Luminous flux 7198 lm  
Color temperature 4000 K  
Efficiency 101 lm/W



### Interior lighting simulation

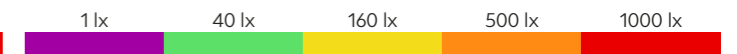
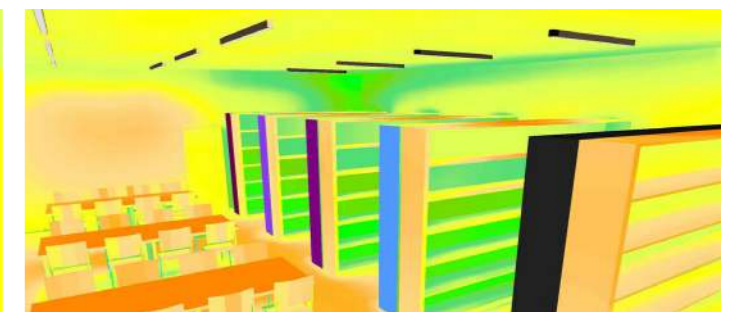
#### GROUND FLOOR ATRIUM EDUCATIONAL CENTER

**Zumtobel Slotlight Sloin** or similar.  
Required illuminance level 100 lux  
Improved illuminance level > 200 lux



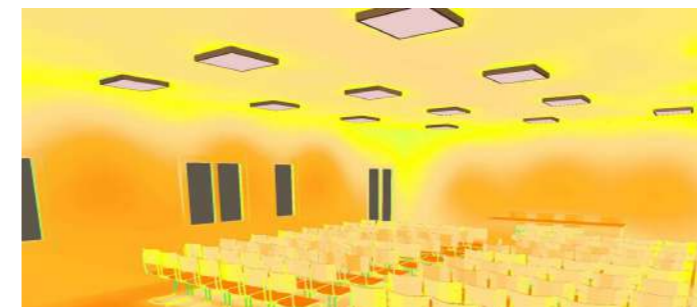
#### BIBLIOTECA POLO DIDATTICO

**Tecmare Agape** or similar.  
Required illuminance level not stated  
Improvement illuminance level > 500 lux



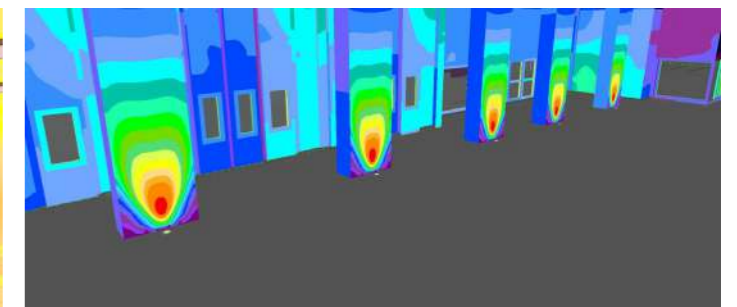
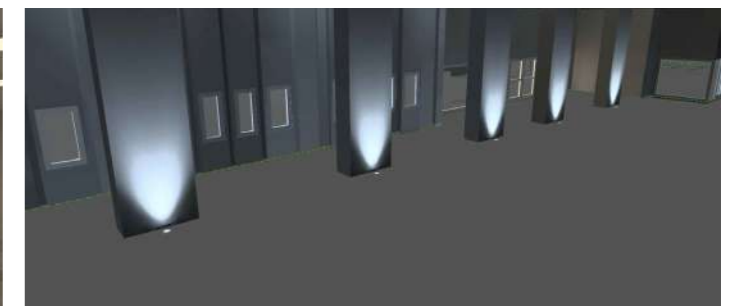
#### EDUCATIONAL CENTER CLASSROOM

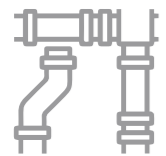
**Thorn Omega Pro 2** or similar.  
Required illuminance level not stated  
Improvement illuminance level > 500 lux



#### ENTRANCE TO THE EDUCATIONAL CENTER

**Civic Era** or similar.  
Required illuminance level not stated  
Improvement illuminance level > 50 lux





▲ FOCUS SYSTEMS

## UNIFE Biomedical Chemical Hub Extension

**LOCATION**  
Ferrara, Italy

**BUDGET**  
€ 24.2 mln

**TYPE OF INTERVENTION**  
Education

**SERVICES**  
Technical improvements project, executive design

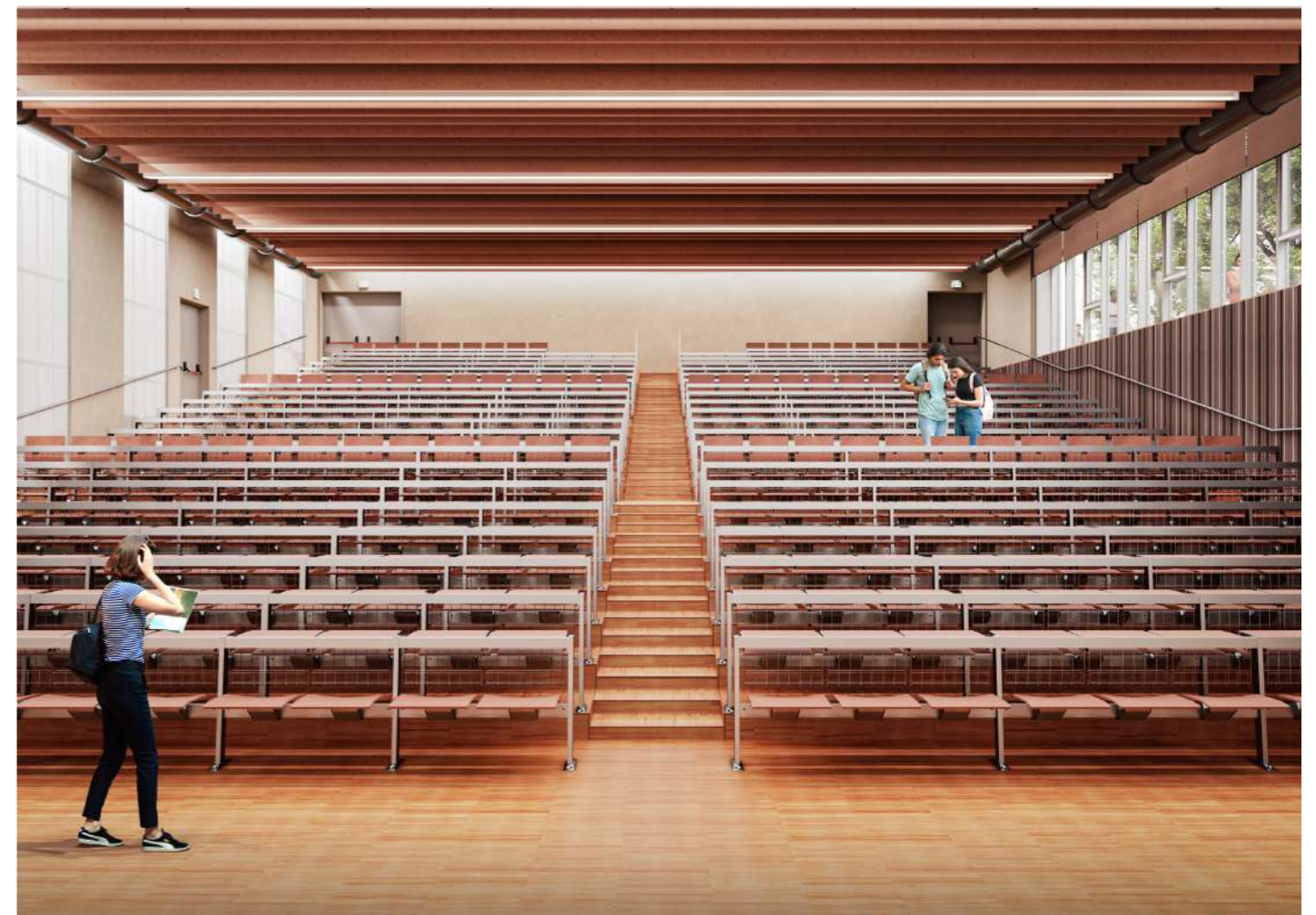
**CONTRACTING AUTHORITY**  
University of Ferrara

**TYPE OF CONTRACT**  
Design & Build

**CONTRACTOR**  
ITI Impresa Generale Spa - Milani Srl







Design & Build tender for the executive design and construction of two new university buildings and a multi-storey car park in the former San Rocco hospital area, to support and complete the Biomedical Chemical Pole of the University of Ferrara

\*Tender documentation project: Rossiprodi Associati Srl - S.B.Arch - Ingegneri Riuniti Spa - Geo Group Srl





## Technical and functional quality UTA

### Supply air

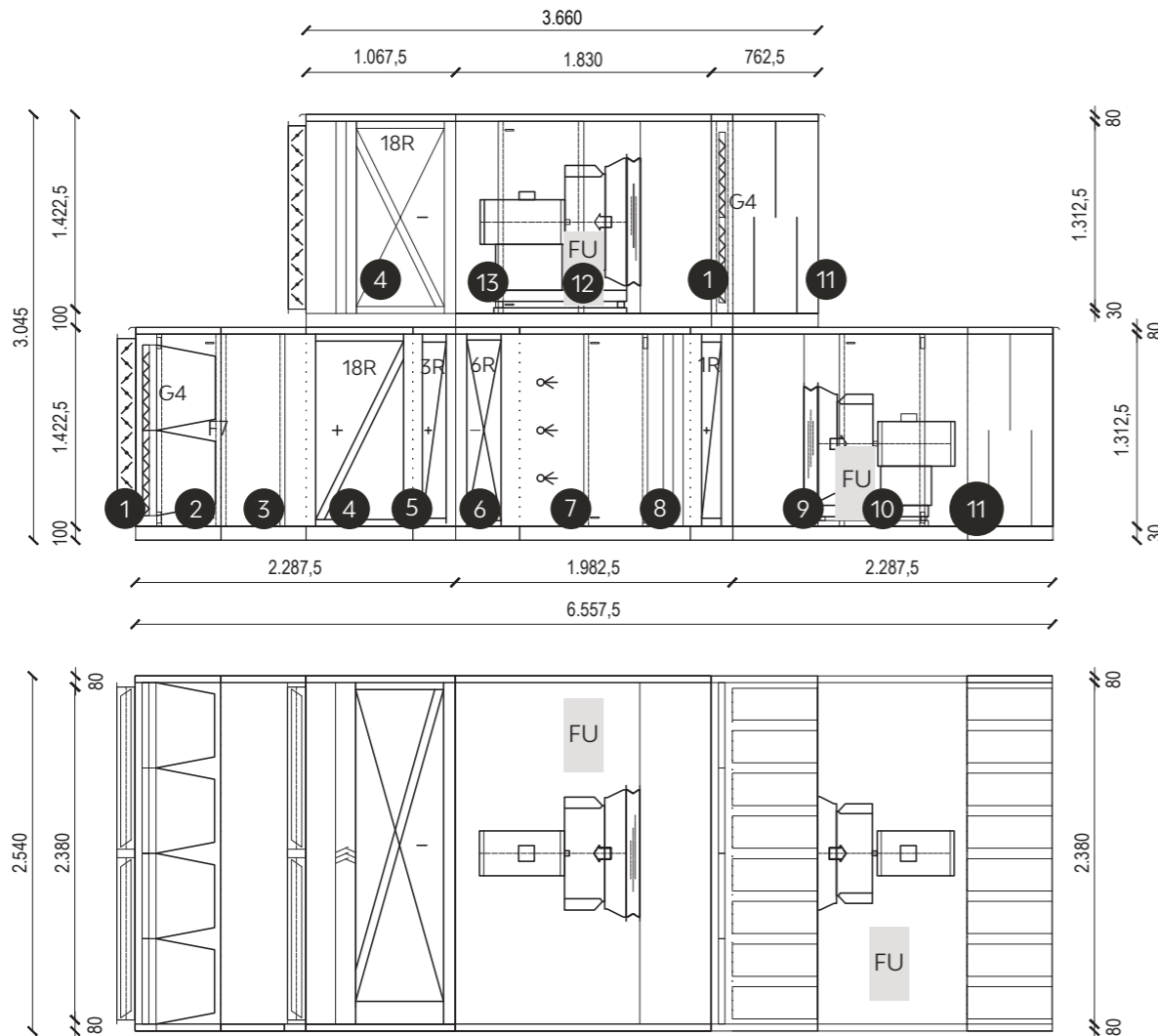
 <b>Air flow rate</b> 24.000 m³/h	 <b>Engine power</b> 1 x 15,000 kW	 <b>Heating</b> 80,97 kW
 <b>Heating</b> 48,30 kW	 <b>CHW-cooling</b> 264,24 kW	 <b>Humidification</b> 94,47 kg/h

### Air expelled

 <b>Air flow rate</b> 24.000 m³/h	 <b>Engine power</b> 1 x 7,500 kW
---	---

### Recovery efficiency

 <b>Thermal efficiency</b> 74,4 %
--

### Legend





- |                           |                            |
|---------------------------|----------------------------|
| 1. Coarse filter class G4 | 8. Post-heating battery    |
| 2. Fine filter class F7   | 9. Supply fan              |
| 3. UV germicidal section  | 10. Inverter on supply fan |
| 4. Battery recuperator    | 11. Silencer               |
| 5. Heating battery        | 12. Return fan             |
| 6. Cooling battery        | 13. Inverter on return fan |
| 7. Steam humidifier       |                            |

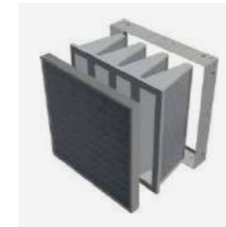
### Technical data

<b>Series</b>	ZHK Inova DG
<b>Unit size</b>	24 / 13,5
<b>Inner panel</b>	Galvanized
<b>Bottom inner panel</b>	Galvanized
<b>Guides</b>	Galvanized
<b>Outer panel</b>	Plasticized galvanized

### SUPPLY AIR






#### Pocket filters with flat filter on frame

- Technical features
-  Class F7
  -  dP initial 86 Pa
  -  dP final 186 Pa
  -  Filter surface 29,60 m²






### BATTERY RECOVERY

#### Cooling

- Technical features
-  Rank 18R
  -  Power 150,52 kW
  -  Air intake 23,00 °C
  -  Air outlet 4,70 °C
  -  Thermal efficiency 73,2 %






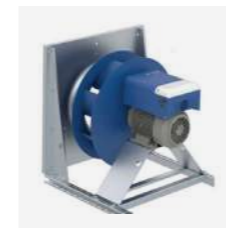
#### COOLING BATTERY

- Technical features
-  Speed 2,36 m/s
  -  Power 264,24 kW
  -  Air intake 30,00 °C






### FREE IMPELLER SUPPLY FAN

- Technical features
-  Fan 710
  -  External pressure 200 Pa
  -  Sound power 91,6 dB (A)







### SILENCER






- Technical features
-  Phono-asso septum type 230 MFK
  -  Execution/model standard
  -  Frame material galvanized






#### Coarse pre-filter

- Technical features
-  Class G4
  -  dP initial 63 Pa
  -  dP final 113 Pa
  -  Filter surface 4,80 m²

#### Heating

- Technical features
-  Rank 18R
  -  Power 150,52 kW
  -  Air intake -2,00 °C
  -  Air outlet 16,61 °C
  -  Thermal efficiency 74,4 %

-  Air outlet 14,00 °C
-  dP dry air side 129 Pa
-  SHR 0,49



FOCUS  
BIM



\*Tender documentation render



\*Tender documentation render



\*Tender documentation render



▲ FOCUS BIM

## Intermunicipal Water Plant

Works for the development of the Cornadero intermunicipal water extraction system serving the municipalities of Milano Nord

\*Tender documentation render: ETC Engineering Srl

**LOCATION**  
Cornadero, Italy

**TYPE OF INTERVENTION**  
Industrial

**CONTRACTING AUTHORITY**  
CAP Holding spa

**CONTRACTOR**  
Giudici Spa - Civelli Costruzioni Srl

**BUDGET**  
€ 10.8 mln

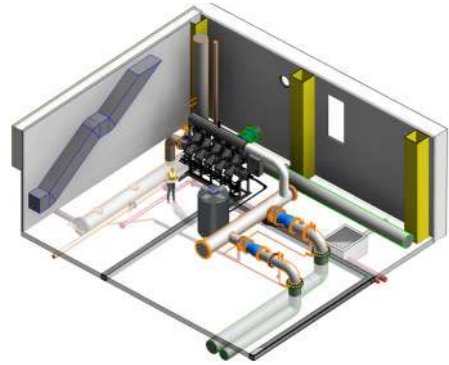
**SERVICES**  
Technical improvements project

**TYPE OF CONTRACT**  
Design & Build

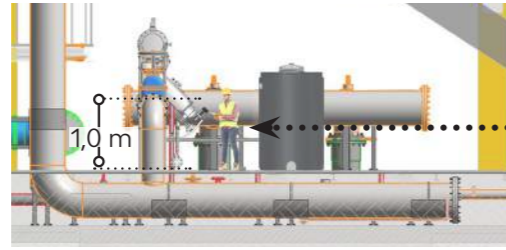


# BIM modeling. As-built production and construction site management

## Product warranties and maintenance aspects



## Section

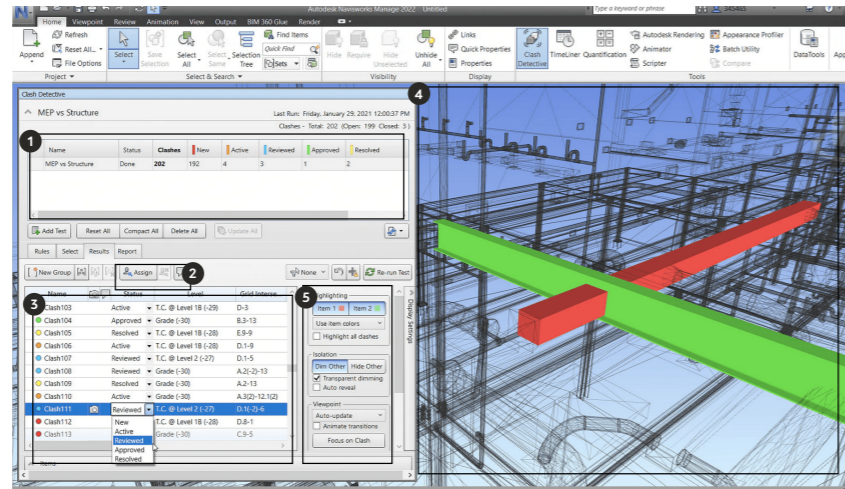


The operator can position himself directly in front of the 5 filters and will not need additional preparations to perform the maintenance activity. The small size of the individual components will also facilitate their movement.

The improvement project includes the replacement and increase of the filters. These will be tilted downwards to allow easy access and viewing by the maintenance worker without the aid of ladders or other preparations.

## Example of a screen with a geometric interference highlighted

- Summary table**  
Summary sheet describing all the Clash Detections detected.
- Assignment of the order**  
The resolution of interferences is assigned to the person in charge, inserting clarifying comments.
- Interference Information**  
All the interferences found are reported here, with the main characteristics.
- 3D View**  
You can visualize the geometric interference found, so you can identify and resolve it more easily.
- Viewing options**  
Using the options provided, you can customize the display of graphic elements in the 3D viewport.



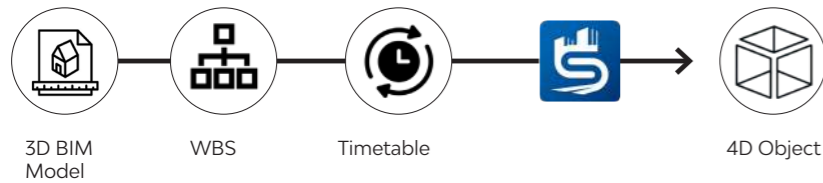
## Checks for space-time interference: Management software and 4D modeling



To improve and supervise the timing and operations of the construction site, the use of a **4D management software such as SYNCHRO Pro** by Bentley Systems or similar, distributed in Italy by Teamsystem Construction or similar, is planned. The program collects all the information

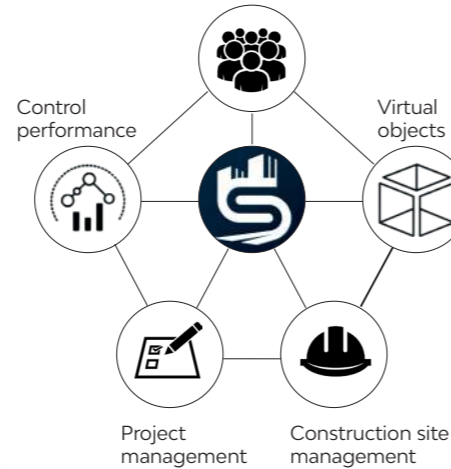
that characterizes the model, combined with the WBS classification and the time program, exploits the potential of high-precision graphics, reducing errors on the construction site, thanks to the creation of construction sequences, assembly simulations and feasibility analysis of critical operations.

## Workflow

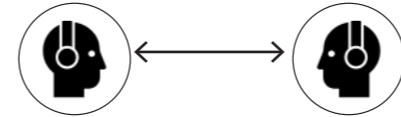


## Controlled parameters

Constant communication



## Direct connection



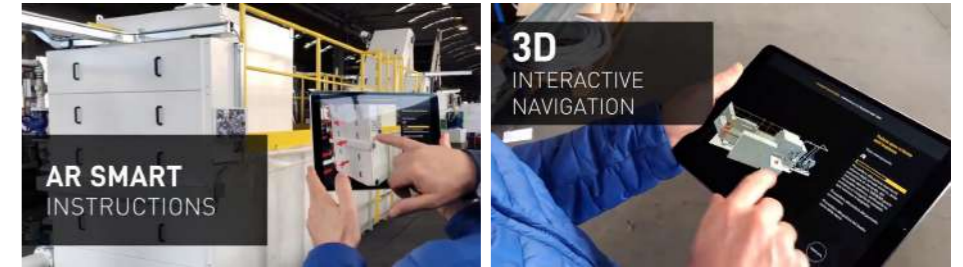
Field Operator

Technical Office Remote

## How to use

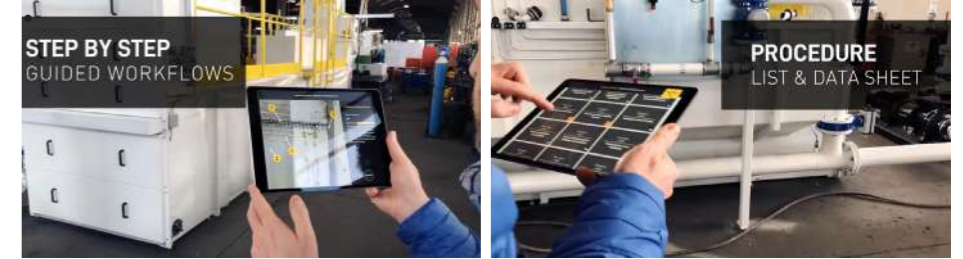
- Accesso al sistema tramite le proprie credenziali o delle credenziali Guest ID;
- Avvio della chiamata, selezionando un contatto online dalla lista Contatti;
- Attivazione delle funzionalità necessarie per lo svolgimento della sessione (modalità streaming, modalità foto, etc.);
- Utilizzo di elementi grafici virtuali (widget) disponibili durante la chiamata. Possono essere inseriti all'interno di un video o di un'immagine grazie alla Realtà Aumentata.
- La funzionalità di condivisione documenti consente agli operatori di inviare manuali, tabelle, immagini e altri documenti al proprio interlocutore, per facilitare il completamento dell'intervento.

## Functionality



- Graphic instructions overlaid on videos;
- Real-time commands;
- Animated cursors that facilitate service operations.

- Interactive visualization of the complete 3D model;
- Exploration of details
- Intervention areas highlighted graphically;



- Advanced photographic instructions;
- Detailed description of each procedure;
- Numbered labels to indicate the elements and areas of intervention;
- Progressive numbers show the correct sequence of the processes.

- Entire list of procedures filtered by categories;
- Easy identification of categories, through the use of icons;
- Summary documentation with detailed information.

## Adequacy of Professional Figures



### BIM Manager

Manager of the interdisciplinary BIM model and the effective integration of all data. He is responsible for the development and compliance with the BEP, the coordination of file sharing servers, the choice and management of software licenses and the company BIM library.



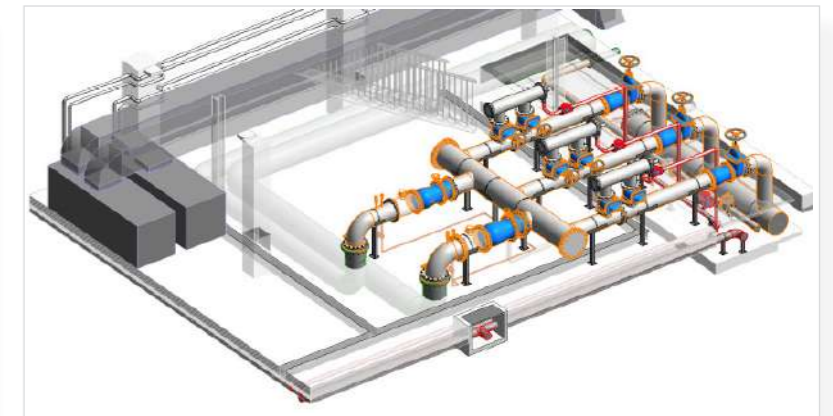
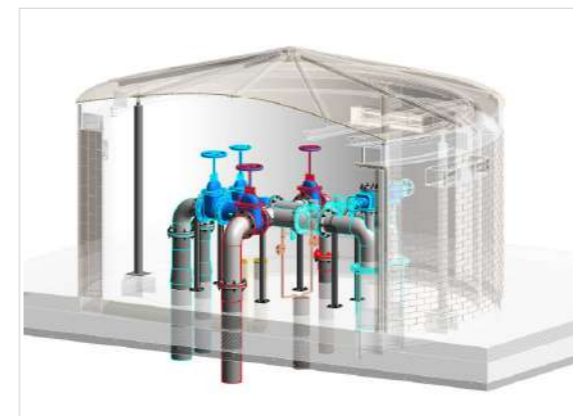
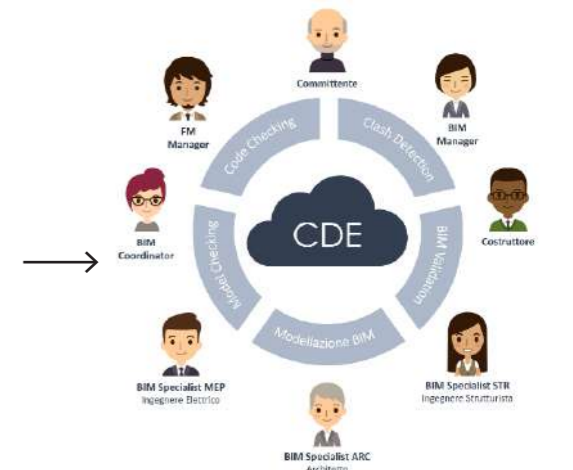
### BIM Coordinator

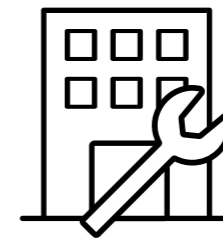
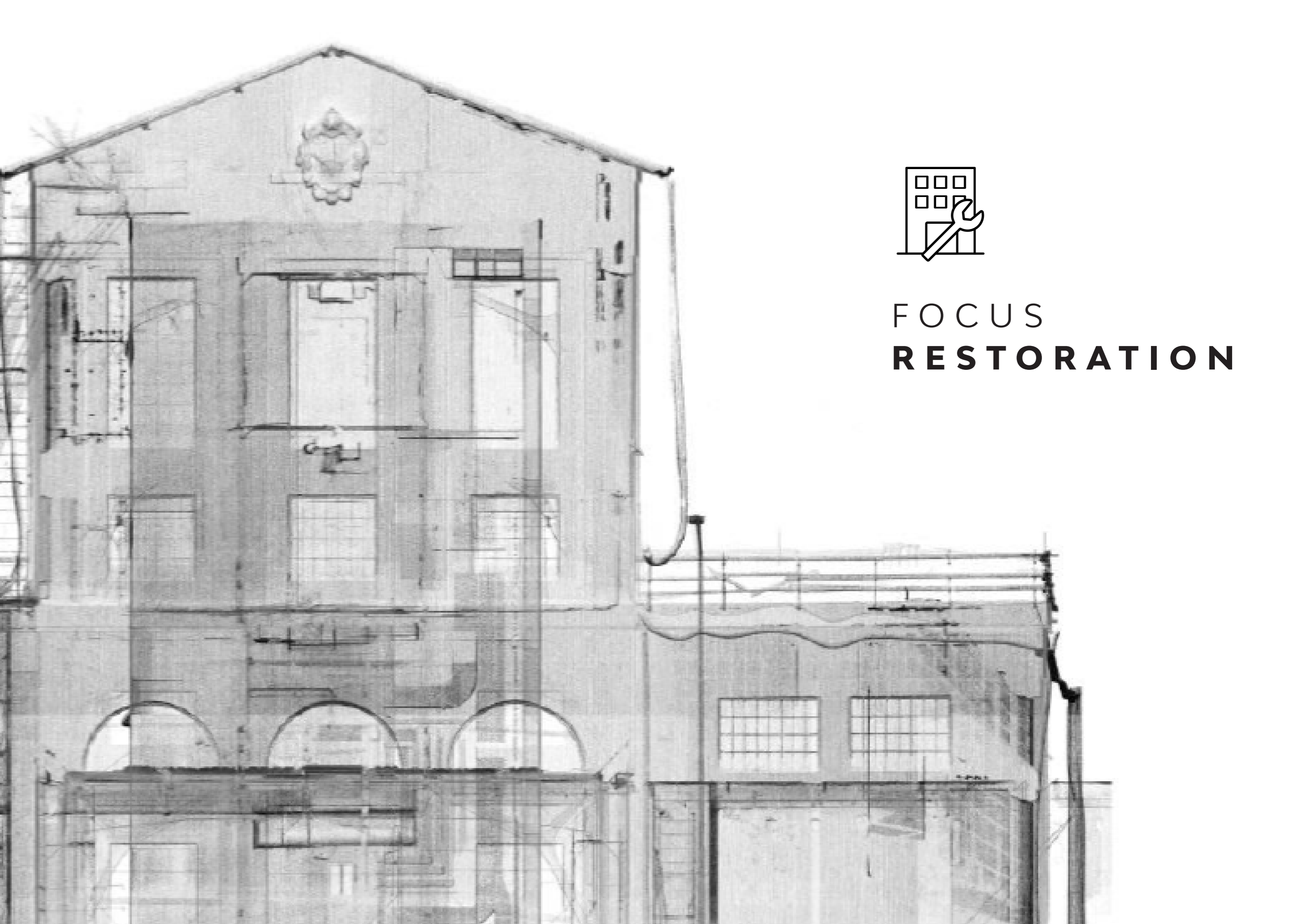
Responsible for the interdisciplinary coordination of BIM specialist activities, development and updating of contents.



### BIM Specialist

Specialized manager of 3D modeling, with specific knowledge of data management and information flows.





FOCUS  
**RESTORATION**



\*Tender documentation render



\*Tender documentation render



▲ FOCUS RESTORATION

## Ex Enel Plant Renovation

Works for the renovation and restoration of the ex Enel plant in the former Amcm sector in Modena: Nuovo Teatro delle Passioni.

\* Tender documentation project and render: Politecnica Ingegneria e Architettura Soc. Coop.

**LOCATION**  
Modena, Italy

**TYPE OF INTERVENTION**  
Culture

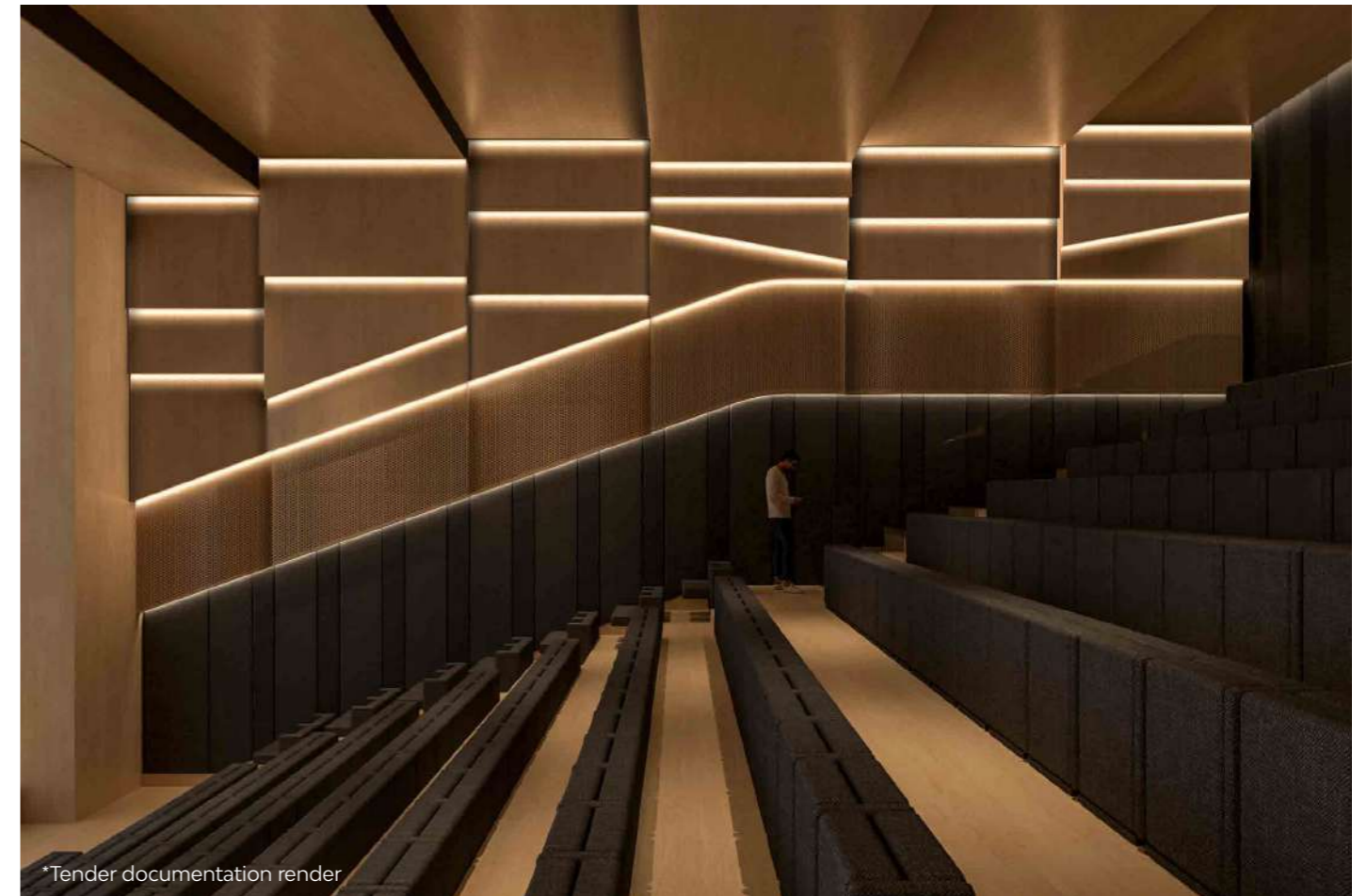
**CONTRACTING AUTHORITY**  
Municipality of Modena

**CONTRACTOR**  
AeC Costruzioni Srl

**BUDGET**  
€ 7.6 mln

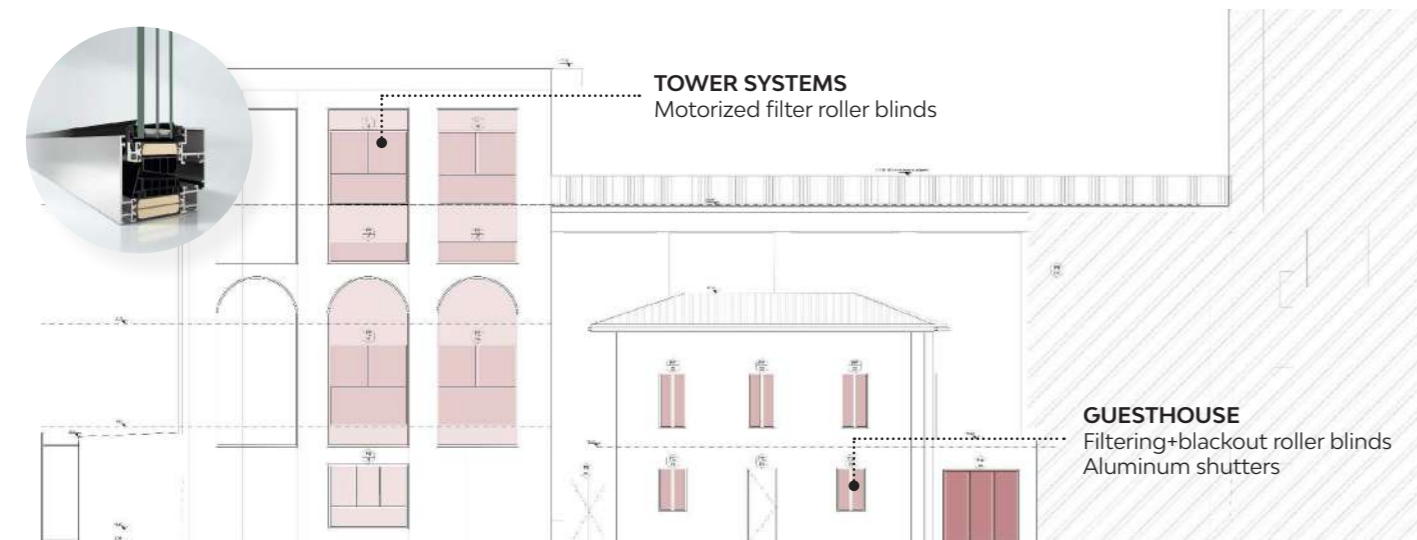
**SERVICES**  
Technical improvements project

**TYPE OF CONTRACT**  
Gara OEV



\*Tender documentation render

## Improving design performance



### Improvement of transparent window frames

- **Aluminium window frame type Schüco AWS 90.SI+ or similar**
- **Aluminium window frame for French windows type Schüco ADS 90.SI or similar**
- **Triple glazing, Saint Gobain type or similar (in all the windows presented)**
- 💡 Thermal break frame with  $U_f=0.7$  W/m<sup>2</sup>K performance
- 💡 Thermal break frame with  $U_f=1.4$  W/m<sup>2</sup>K performance
- 💡 High thermal performance  $U_g=0.5$  W/m<sup>2</sup>K
- ♻️ Cradle to Cradle Certification, plastic materials from renewable sources
- ♻️ Cradle to Cradle Certification, plastic materials from renewable sources
- 🔊 Excellent acoustic performance  $R_w=52$  dB

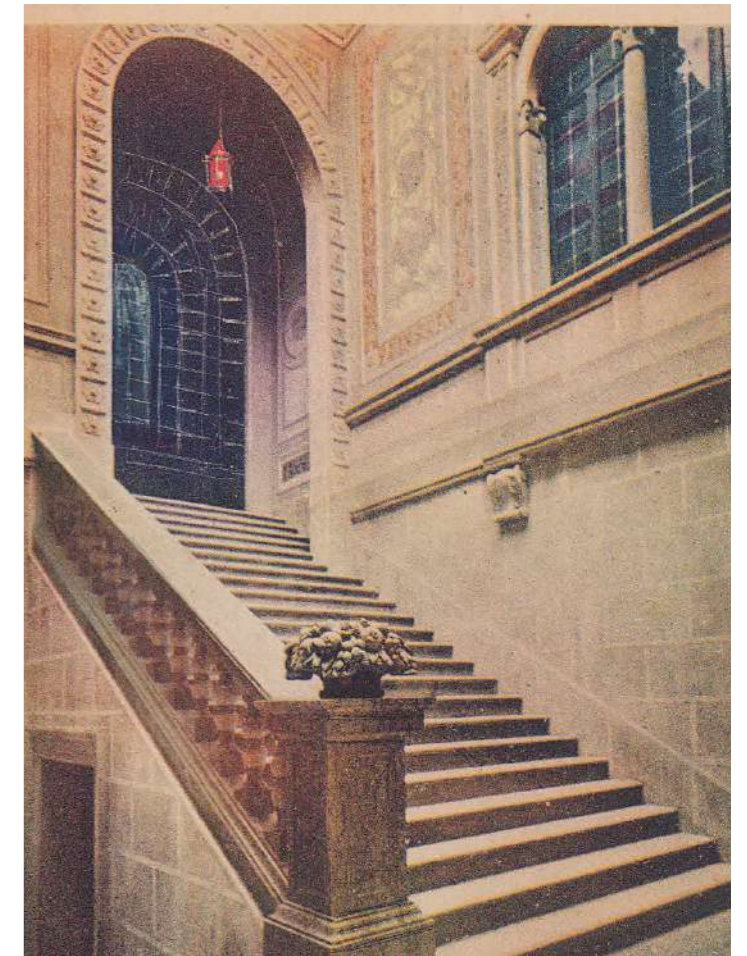


### Improvement of opaque internal fixtures

- Single-leaf fire doors type SEBINO Chiusure or similar
- Double-leaf fire doors, type SEBINO Chiusure or similar
- 🔥 Accessories for fire doors
- 🛡️ Protective systems for internal doors

### Improved shielding systems

- 🟢 Motorized roller blind filtering, type Latemar by Pellini or similar
- 🟢 Motorized roller blind darkening and filtering, type Latemar by Pellini or similar
- 🟢 Motorized Venetian blind type ScreenLine SL20-22MB by Pellini or similar
- 🛡️ Aluminum shutter with wood finish



Renovation work  
on the Mirandola  
Town Hall

\*Tender  
documentation  
render: Enerplan Srl

▲ FOCUS RESTORATION

## Renovation of the "Town Hall" in Mirandola

### LOCATION

Mirandola, Italy

### BUDGET

€ 5.2 mln

### TYPE OF INTERVENTION

Mixed use

### SERVICES

Technical improvements project

### CONTRACTING AUTHORITY

Unione Comuni Modenesi Area Nord

### TYPE OF CONTRACT

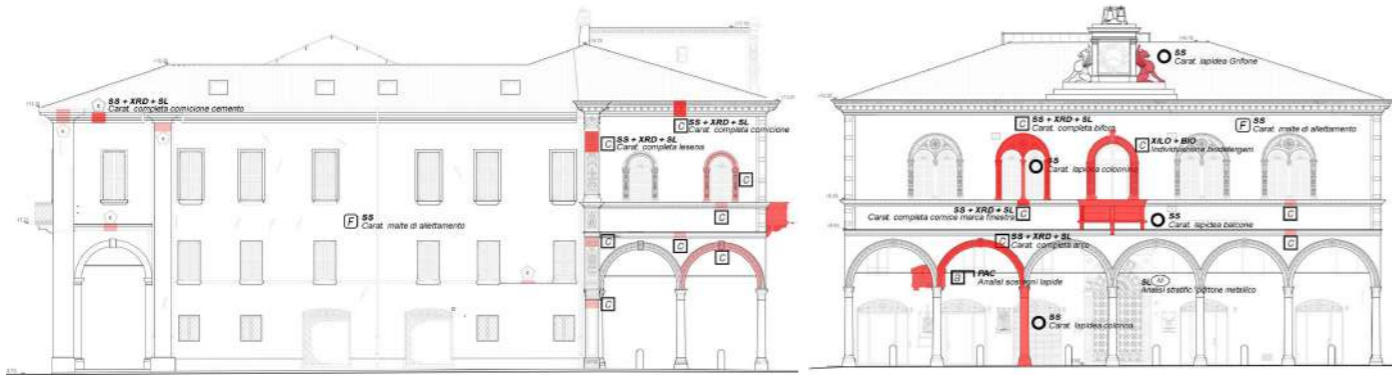
Construction

### CONTRACTOR

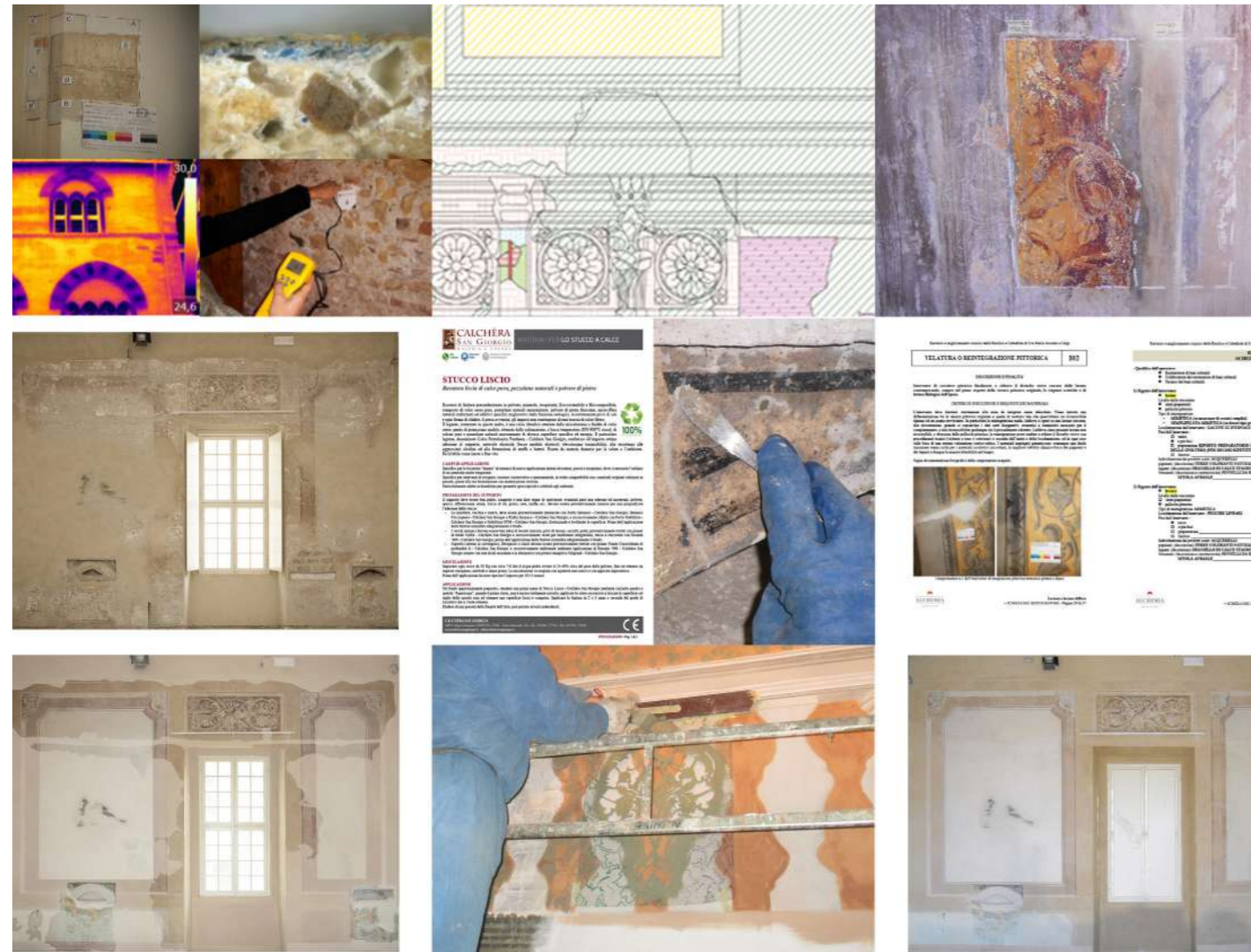
AeC Costruzioni Srl -  
Alchimia\_Laboratorio di Restauro

Restoration works with seismic improvement

Investigations into the existing

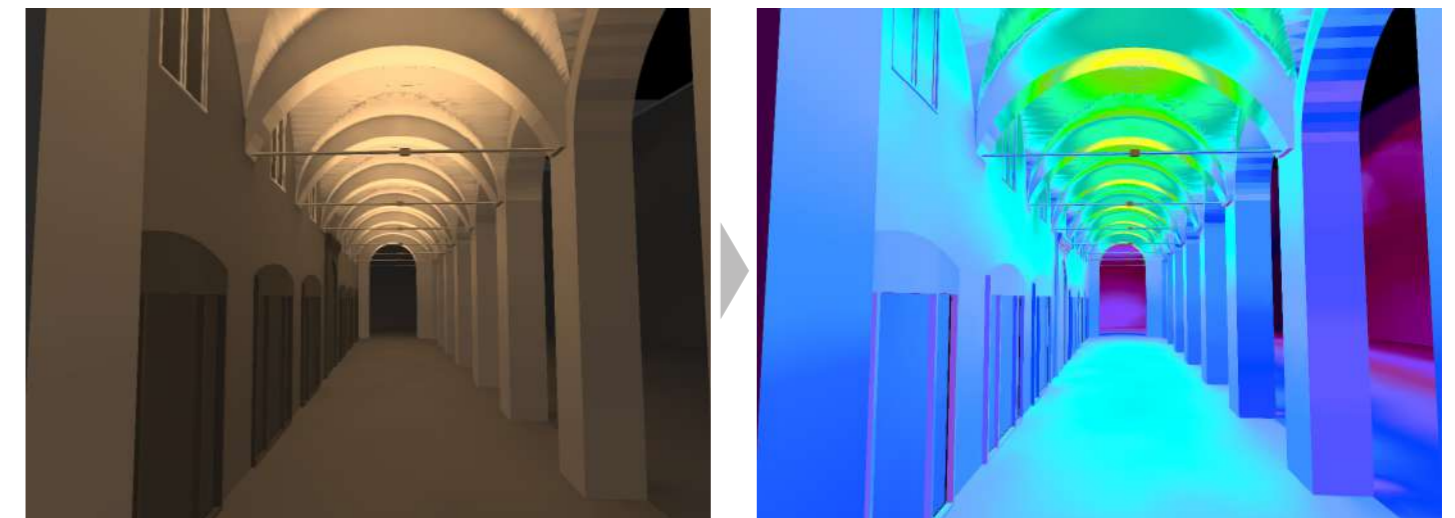
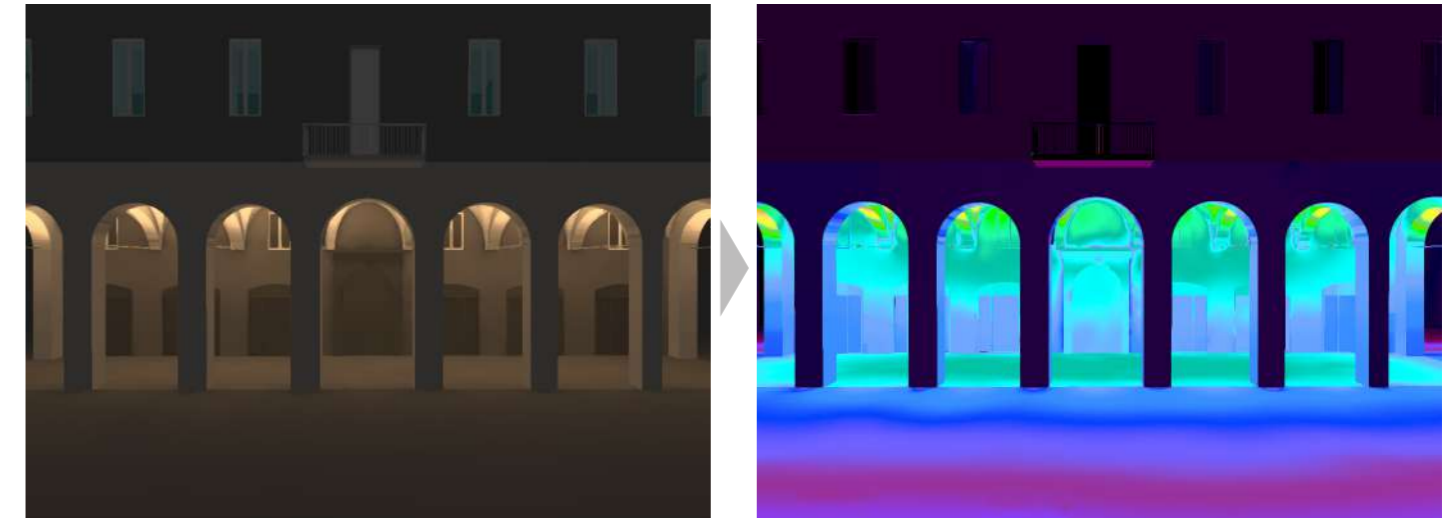
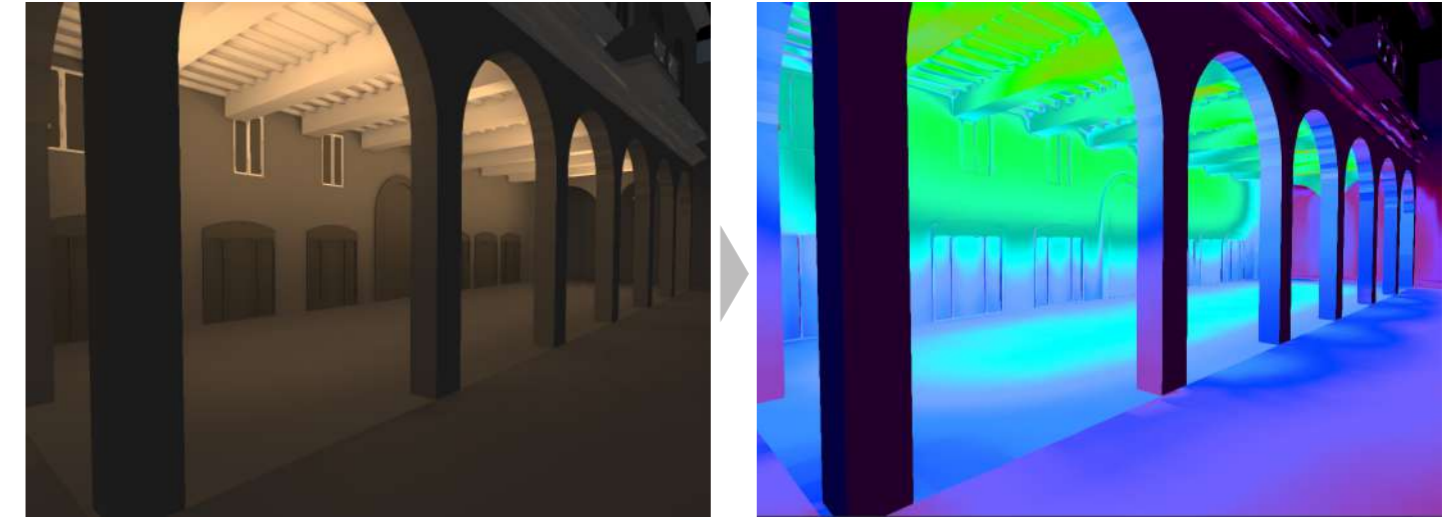


Restoration intervention approach - GREAT HALL



Improved external lighting

Check lighting levels





FOCUS  
STRUCTURES



**FOCUS STRUCTURES**

## Cinecittà Studios

Construction work for a sound stage and related dressing rooms and equipment in the C4A and C4B areas of Cinecittà

**LOCATION**  
Rome, Italy

**BUDGET**  
€ 30 mln

**TYPE OF INTERVENTION**  
Culture

**SERVICES**  
Technical improvements project

**CONTRACTING AUTHORITY**  
Cinecittà

**TYPE OF CONTRACT**  
Construction

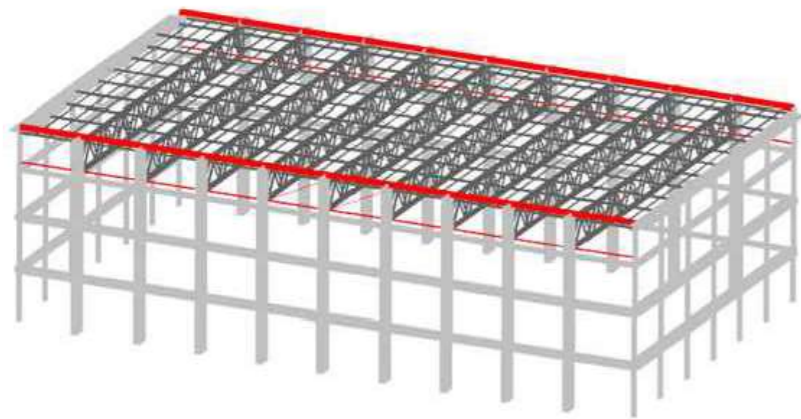
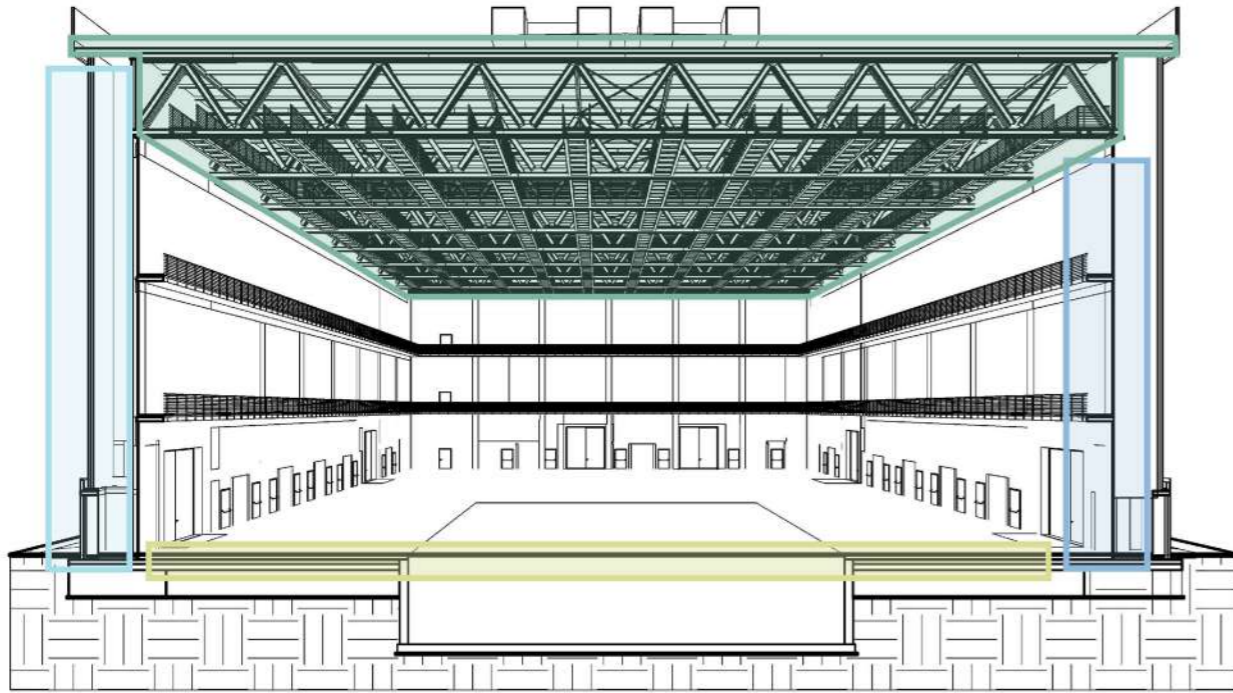
**CONTRACTOR**  
Setten Genesis Spa

\*Tender documentation project: Arch. Bruno Moauro - Prof. Ing. Francesco Sylos Labini - Ing. Carmine Sommella - Ing. Joseph De Santis - Ing. Alfredo Innocenti - Ing. Anna Tarsitano - Arch. Massimiliano Moauro





# Improving structural performance



### Coverage

As regards the roofing, additional longitudinal bracing and infill support elements have been identified.

The additional 2L60x8 braces were also sized.

	MIN	MAX
AxForce (kN)	-414.214	417.924
	[Bm:2405]	[Bm:2406]

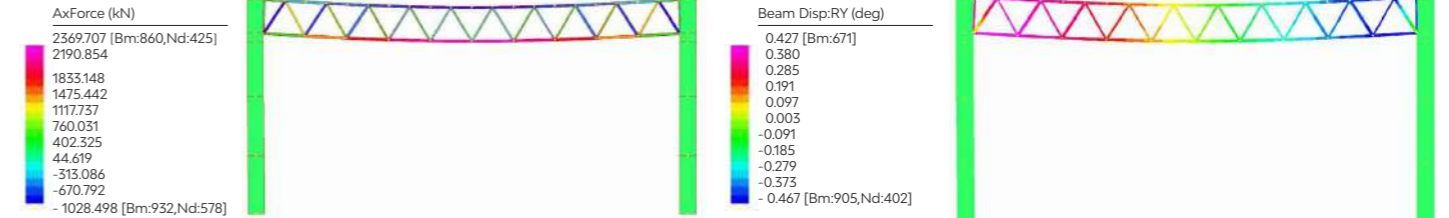
### Advantages

Insertion of elements not present in the base of the wind bracing system capable of stiffening the structure, giving it the resources necessary to resist horizontal forces, such as wind force and earthquakes.

### Support devices

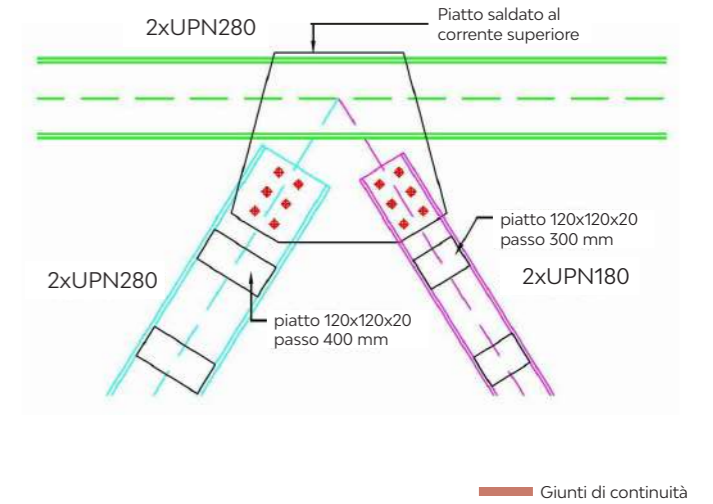
The correct calculation of the roof girder was carried out, taking into account the yielding of the supports and the eccentricity with respect to the barycentric axis of the columns, and the rotation at the imposts at the SLU was evaluated for the optimal choice of the support device.

The use of a confined elastomeric disk bearing device is proposed. Based on the maximum rotation allowed for this type of device, equal to 2%, the device type VF 200-60 from FIP MEC or similar has been identified.



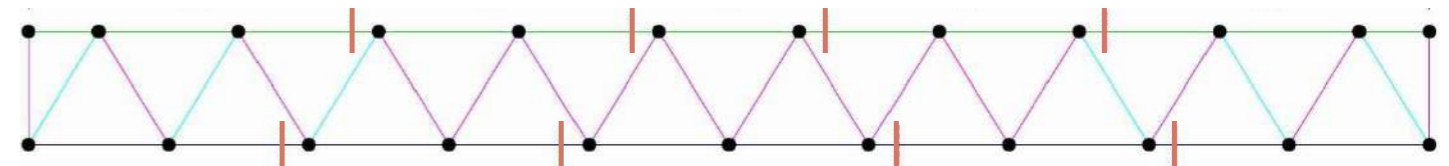
### Truss beam: connections and joints

The solution envisaged on the basis of the tender includes bolted connections to be made on site. The improvement project proposes the creation of the unions of the steel elements of the lattice truss mainly in the workshop and the replacement of the bolting of the diagonals with welding in the workshop. The positioning of the continuity joints of the beams is also revised so that they are placed in the points subject to less stress.



### Advantages

- Optimization of connections by making them in the workshop and reducing bolting
- Revision of the continuity joints of the beams
- Optimization of transport and installation times



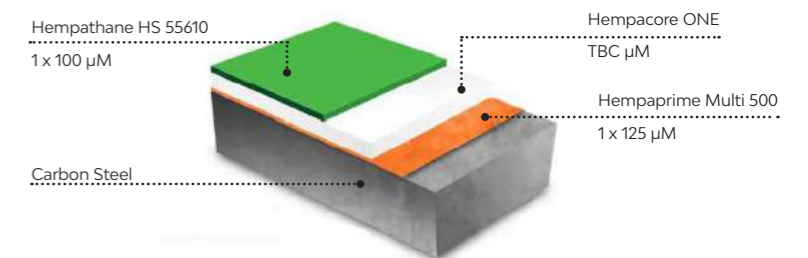
### Confined elastomeric disc bearings

PTFE steel bearings in which rotations around any horizontal axis are ensured by the deformability of a rubber disc confined in a monolithic steel base.

### Fire protection

To improve the fire behavior of the roof slab, the corrugated sheet metal is reinforced with bars of the type B 450 C.

It is also expected to offer additional protection of the metal carpentry of the roof against fire with R90 single-component intumescent paint in aqueous emulsion applied in three layers such as Hempel or similar. For each of the profiles constituting the roofing lattice beams, a specific dimensioning of the thickness of the intumescent paint to be applied has been carried out in order to guarantee the correct protection.





\*Tender documentation render



\*Tender documentation render



FOCUS STRUCTURES

## Renovation Mugello Hospital

Renovation and expansion works with seismic adaptation of the hospital facility of the Mugello Hospital - Excerpt 1: Technology center, buildings under expansion and seismic adaptation

### LOCATION

Borgo San Lorenzo, Italy

### TYPE OF INTERVENTION

Health

### CONTRACTING AUTHORITY

Azienda U.S.L. Toscana centro

### CONTRACTOR

Nbi Spa - Webuild Group

### BUDGET

€ 35 mln

### SERVICES

Technical improvements project

### TYPE OF CONTRACT

Construction

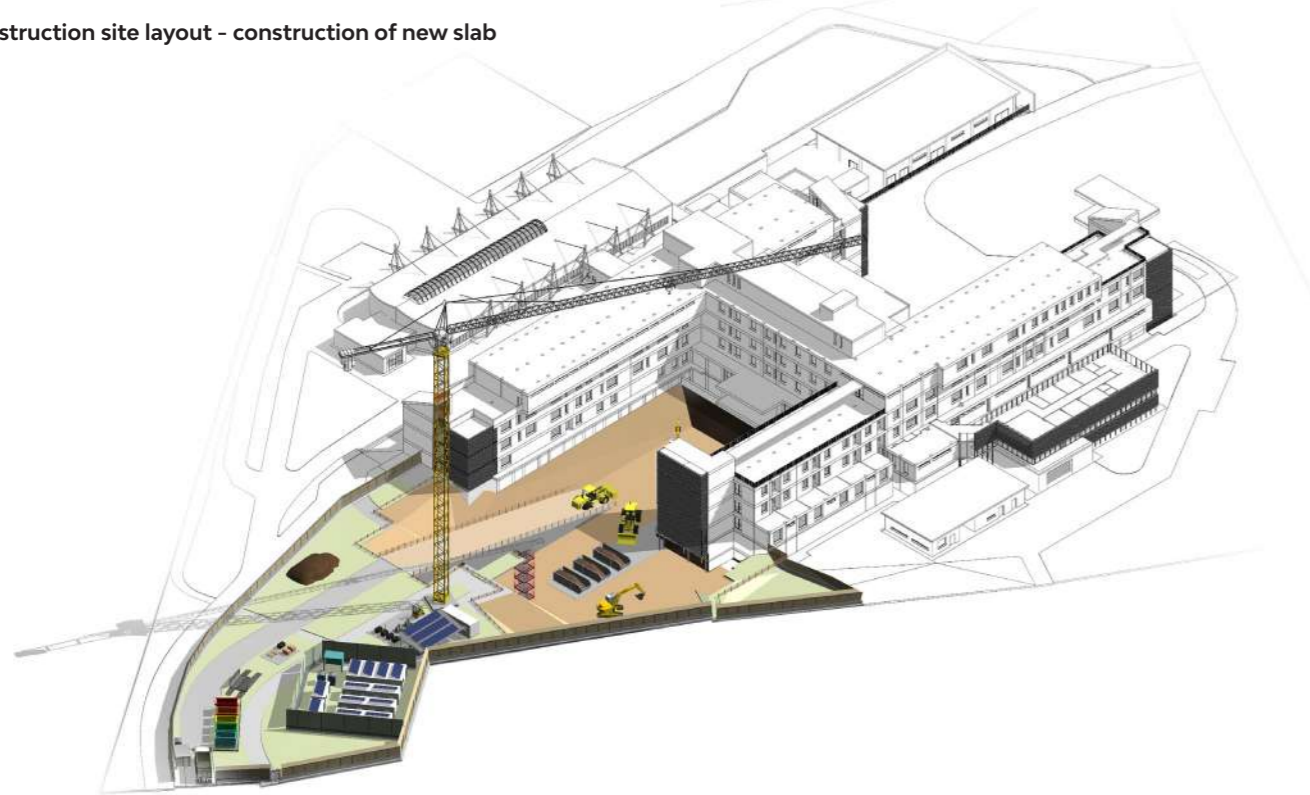
\*Tender documentation project and render: Tecnicaer, consorziata Mythos Scar - aei progetti - M&E Management and Engineering



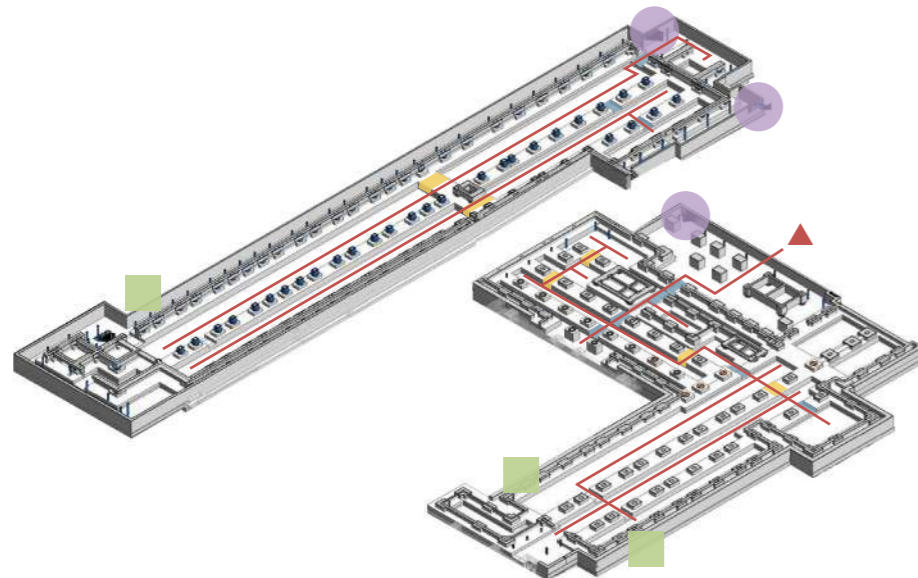
\*Tender documentation render

## Optimization of structural works

Construction site layout - construction of new slab



Access methods and sequence of laying of insulators



### Inferno internal paths

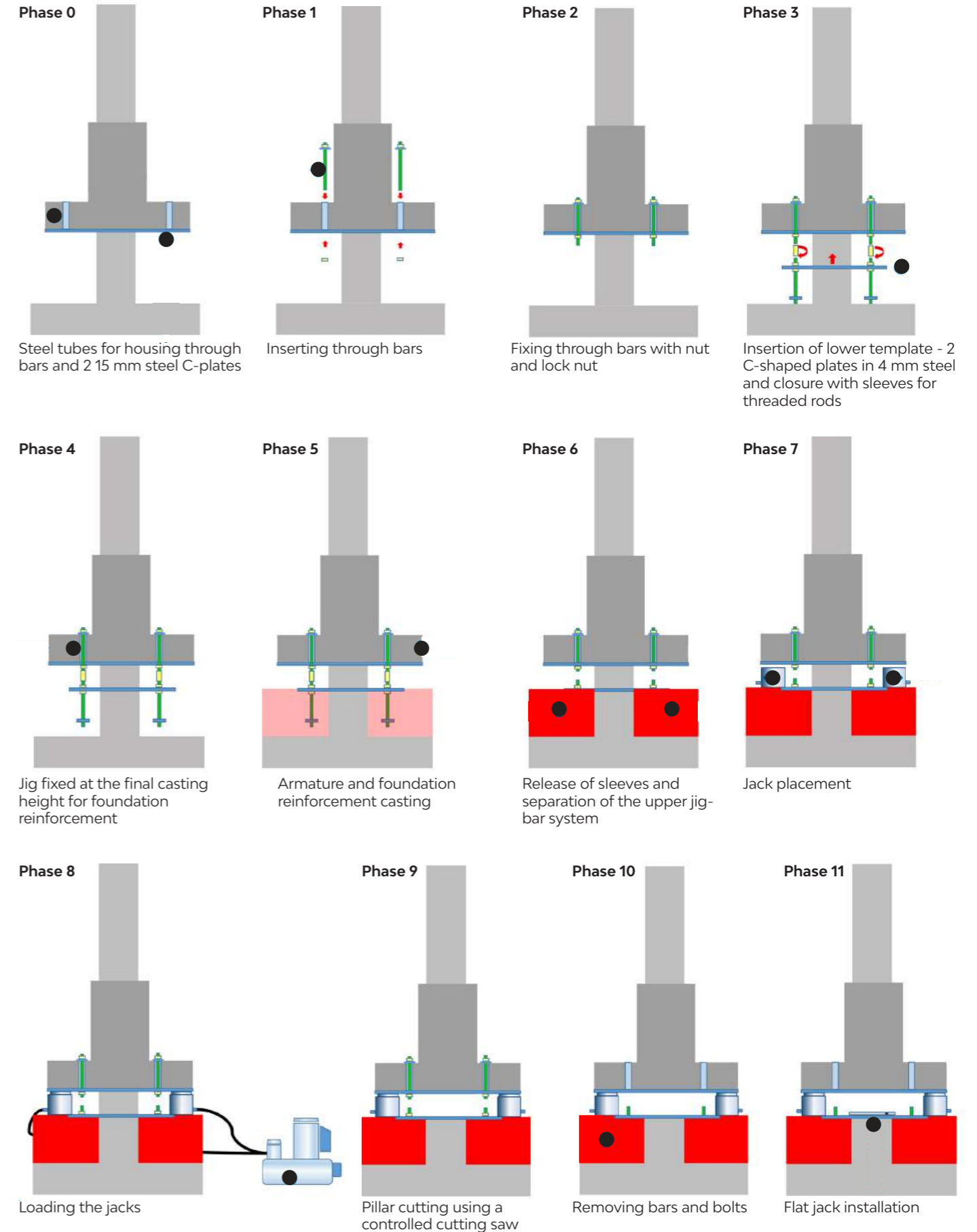
- Available routes
- Available and existing passages for the passage from one area to another
- Passages to be obtained through excavation necessary to access all the insulators
- Access ladder for construction site workers
- Installation of freight elevators useful for transporting vehicles and equipment to the infernotti
- ▲ Access ramp for construction site vehicles

In order to reduce the risk of minimum possible settlements in the loading phase of the isolators, it was considered appropriate to integrate the system of cylindrical jacks for loading the structures preparatory to cutting the pillars, with a flat jack to be positioned under the isolator.

The flat jack allows the isolator to be loaded before the cylindrical jacks for loading the structure are unloaded, thus ensuring better contact with the pillar with a reduction in the risk of minimum possible settlements occurring with other procedures.

This procedure, borrowed from the interventions for replacing structural supports for bridges in operation, guarantees a significant reduction in the risk of settlement due to settlements caused by imperfect contact between the isolator and the pillar base.

The proposed solution also aims to resolve, through a lower template, the problems of positioning, alignment and fixing of the isolators.

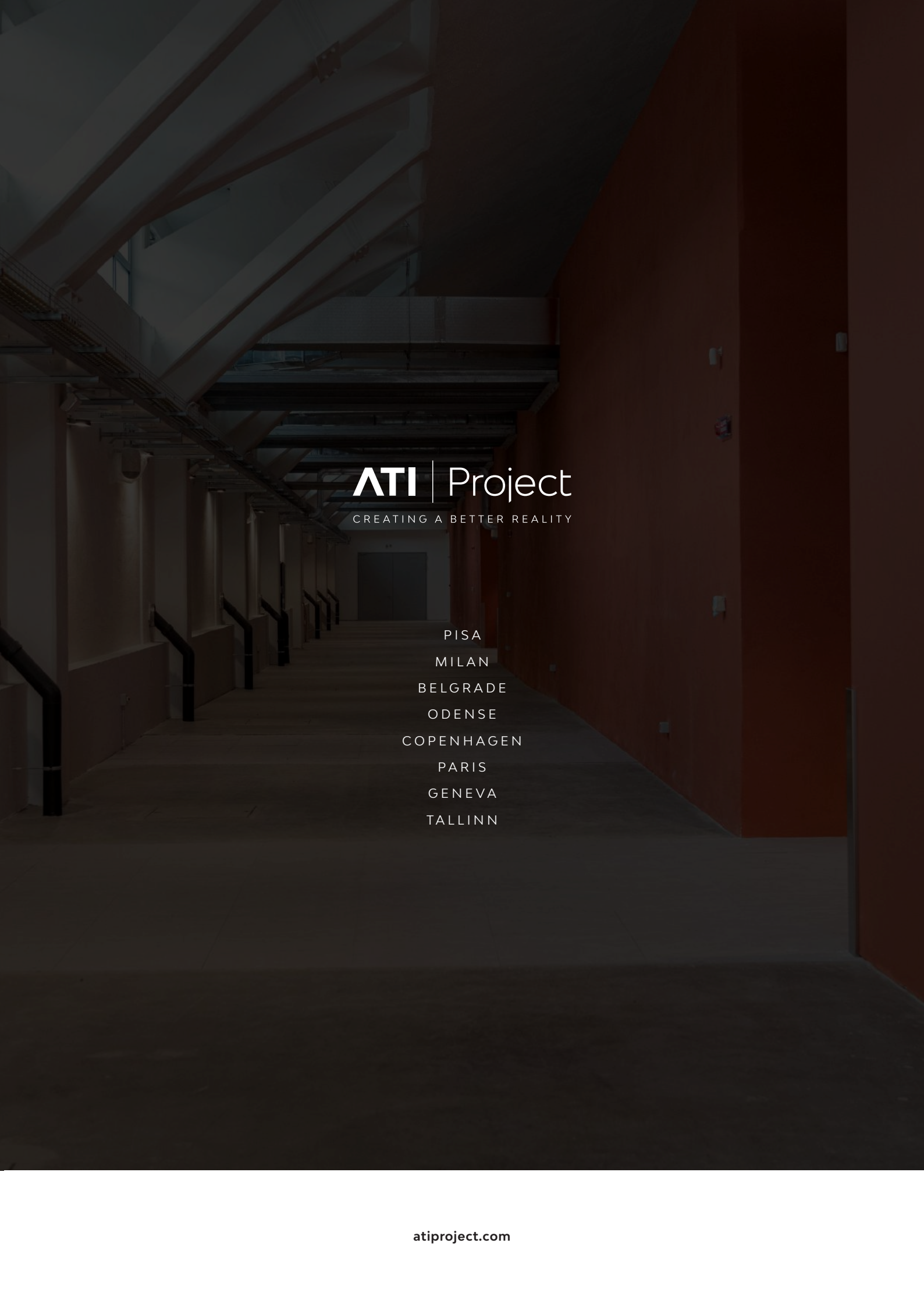


# Certifications

BIM UNI PDR 74:2019 CERTIFIED COMPANY	ISO 9001:2015 CERTIFIED COMPANY	ISO 14001:2015 CERTIFIED COMPANY	ISO 45001:2018 CERTIFIED COMPANY	UNI PDR 125:2022 CERTIFIED COMPANY	SA 8000:2014 CERTIFIED COMPANY

ASSOCIATE OF CONFINDUSTRIA ASSOIMMOBILIARE	MEMBER OF OICE	MEMBER OF EFCA	MEMBER OF CNETO CENTRO NAZIONALE EDILIZIA E TECNICA OSPEDALIERA	MEMBER OF GREEN BUILDING COUNCIL ITALIA	LEGAMBIENTE IDENTITY CARD

BIM QUALITY ENVIRONMENT POLICY	SOCIAL RESPONSABILITY POLICY	GENDER EQUALITY POLICY



**ATI** | Project

CREATING A BETTER REALITY

PISA

MILAN

BELGRADE

ODENSE

COPENHAGEN

PARIS

GENEVA

TALLINN