

CEAS

ADVISOR TO BUILD THE FUTURE

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Advisor to build the future

A group of professionals.
A great experience of integrated
and multidisciplinary engineering.

CEAS means passion for the Project, the answer to complex challenges. CEAS means the application of integrated engineering at its highest standards of quality and sustainability. This means not only the maximum professional work performance for both large and small projects, but also long-term customer satisfaction.

CEAS is a team of professionals devoted to the continuous improvement of their work, thanks to the application of forty years of experience gained in the field that grows from day to day.

All this is CEAS, the maximum experience of vision becoming a feasible project.

TODAY

Today CEAS is the sole interlocutor for large and small projects of minimum and maximum complexity. A unique solution for project management and site supervision. A careful, scrupulous, but also creative and pragmatic partner.

43 years of experience

more than 60 experts

*1.300 projects carried out in
the third millennium*

3.000.000 cubic meters under construction

*550 million euros in works designed
in the past 5 years*

150 open work orders

OUR TEAM

A team of specialized professionals with significant experience in the realization of complex civil engineering works, both in Italy and abroad. Members of our team are passionate, motivated, and always consider work as an opportunity for personal and professional growth. Both when dealing with large, complex works, and when working on smaller, less elaborate projects.

Partners:

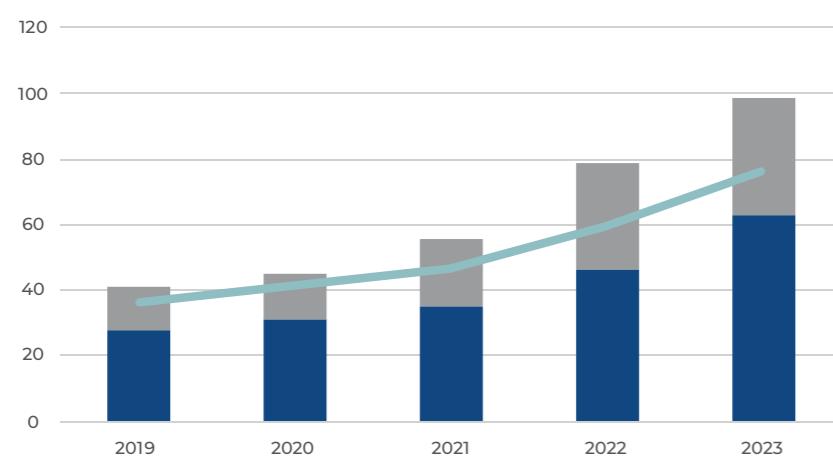
- Bruno Finzi
- Patrizia Polenghi
- Mauro Savoldelli
- Giovanni Canetta
- Lorenzo Mariani
- Luca Rossini
- Gianluca Pittelli
- Alessandro Sabato
- Maxine Finzi



A growing group

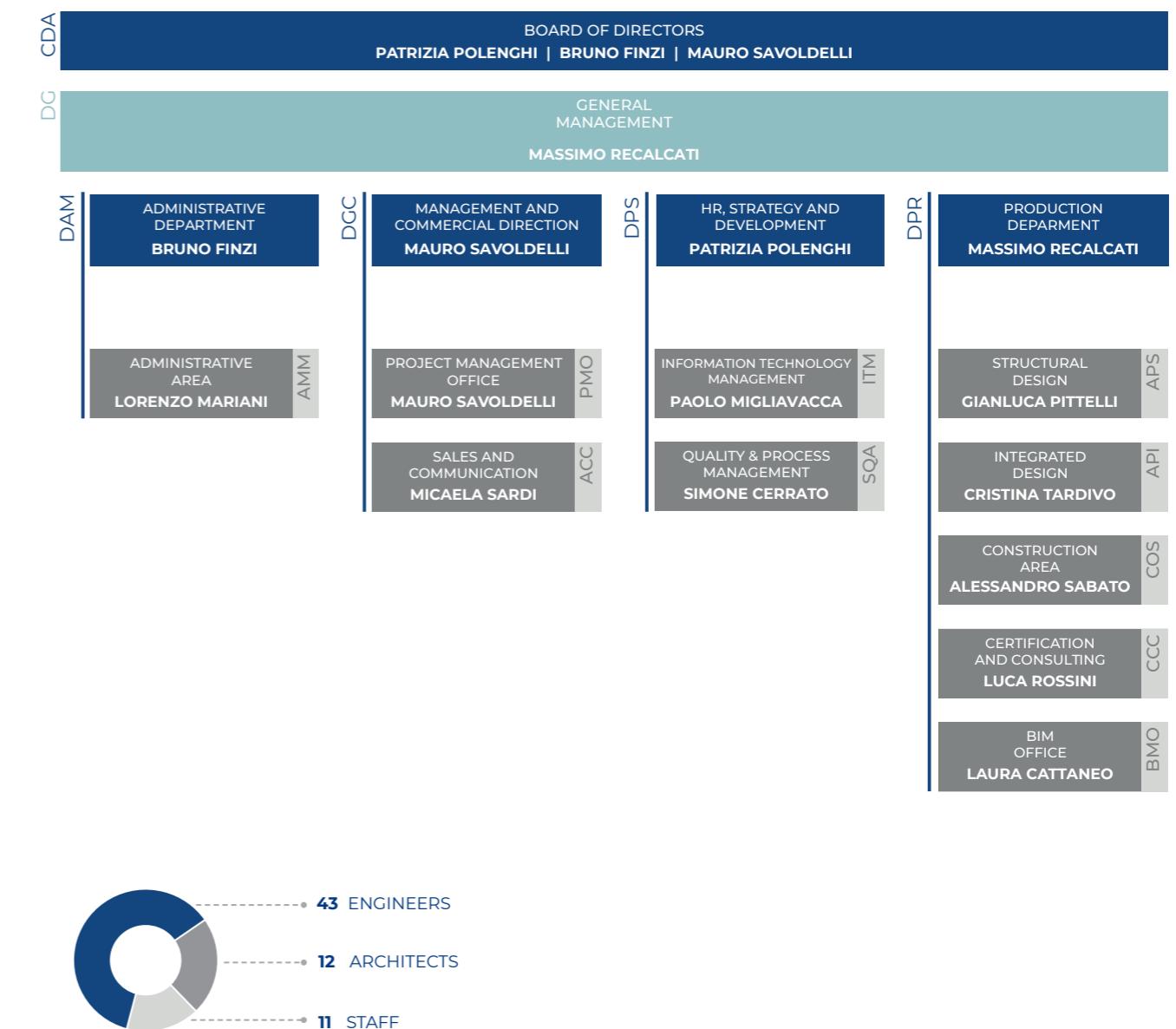
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- INTERNAL PRODUCTIVE MANPOWER
- EXTERNAL PRODUCTIVE MANPOWER
- TOTAL INTERNAL MANPOWER

INTERNAL PRODUCTIVE MANPOWER
EXTERNAL PRODUCTIVE MANPOWER
TOTAL INTERNAL MANPOWER



Manpower growth.

Company organization chart.

We design regeneration

We offer our skills and experience to contribute to a collective project, committing ourselves to tackling the real challenge of the future: urban regeneration.

CEAS believes that regenerating doesn't only mean reconstructing a building or redeveloping an abandoned area. Instead, it must be a real effort to make cities sustainable and more human-friendly, limiting land consumption and implementing infrastructures and services. For years now we have been working on the regenerative process, both from a professional point of view - by participating in some of the most important regeneration interventions in the city (*Fondazione Prada, Porta Nuova Garibaldi, Scalo Porta Romana, New Stadium Milan*), and by implementing cultural awareness and initiatives to generate a debate on the issue. We recently published the ebook "*Changing Cities. Ideas and reflections for an effective, sustainable and collaborative urban regeneration*". Our goal is to translate the intentions and purposes of the projects into a language that can be understood by all the players, united in a single network: the revitalized city.

New Stadium of Milan.

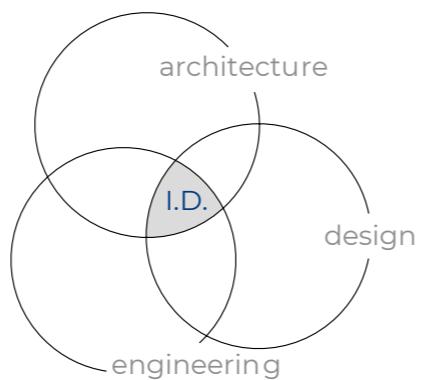


Integrated design

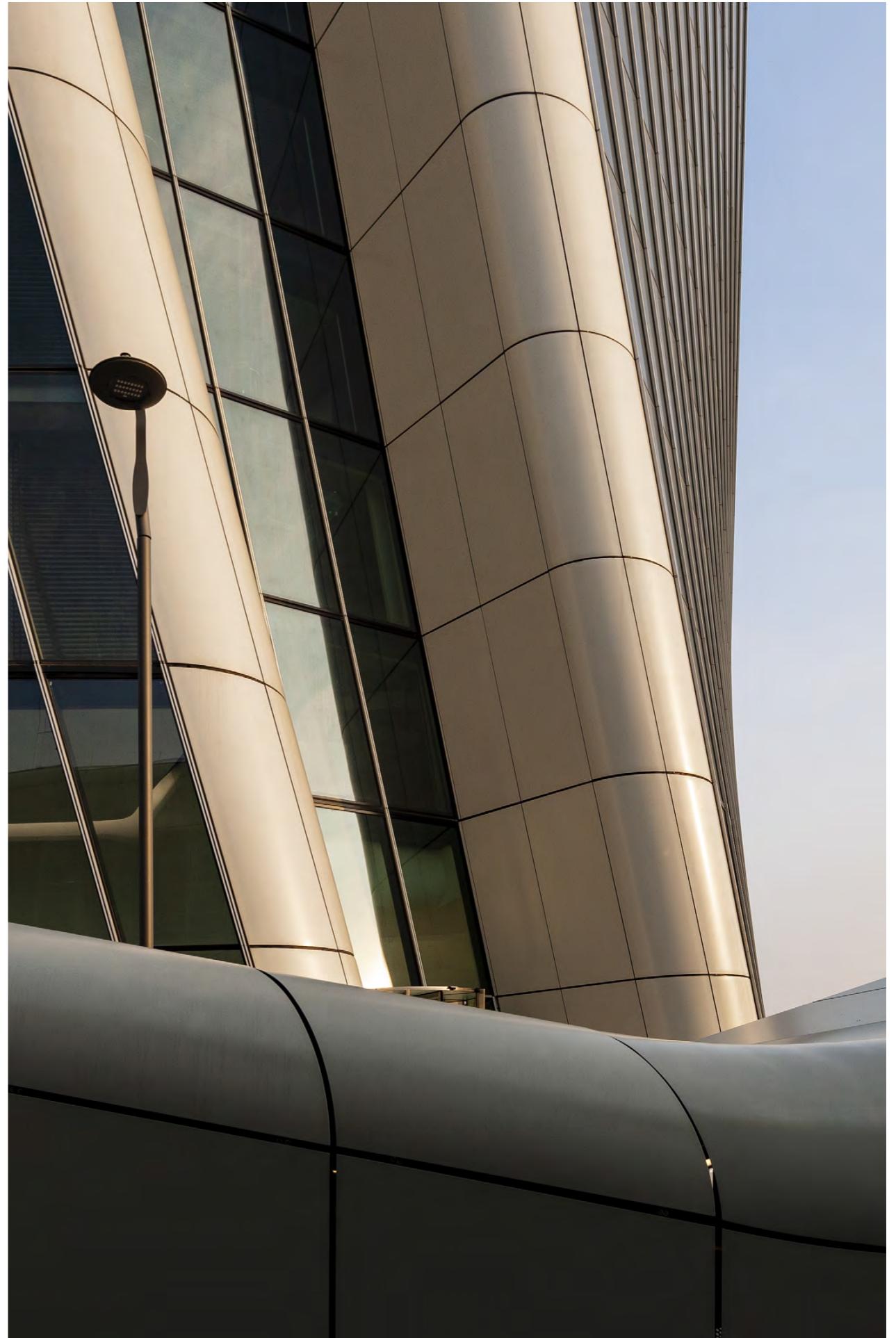
An integrated product embracing all disciplines, from architecture to structures, plants, environment, territory, and safety.

We acquired an important integrated design experience in infrastructure works, civil buildings and urban regeneration of former industrial areas. The final executive and structural design is carried out internally for all civil engineering issues; we also coordinate a well-established team of external experts. This ensures an integrated product in all the disciplines, from architecture to structures, plants, environment, territory, and safety.

We can follow the whole development of a work, from its design to its construction. We support the Artistic Direction in the conception of the work; we acquire the necessary building permits; we assist the client in the procurement phase and guarantee the project execution through a thorough construction supervision "DL".



City Life Complex, Milan.



INTEGRATED DESIGN RESPONSIBILITY MATRIX

	DESIGN PHASES				
	1. Concept design	2. Schematic design	3. Detailed design	4. Construction design	5. Construction docs and superv.
ACTIVITIES					
Architect					
Interior design					
Permitting	██████	██████	██████	██████	██████
Coordination	██████	██████	██████	██████	██████
Executive Architect	██████	██████	██████	██████	██████
Structural design	██████	██████	██████	██████	██████
Geotechnical design	██████	██████	██████	██████	
Geology	███	███			
MEP	███	███	███	███	███
Fire prevention	███	███	███	███	███
Acoustics		███	███	███	███
LEED/WELL certification	███	███	███	███	███
Construction supervision "DL"					██████
Health & Safety (CSP, CSE, RL)		██████	██████	██████	██████
Environmental consultancy	███	███	███	███	███
Energy certification (APE)					███
MEP Certification & Commissioning					███
Final structural certification				██████	██████

ARCHITECT

CEAS

██████

Activities performed by CEAS

███

Activities coordinated by CEAS and carried out by leading specialized companies

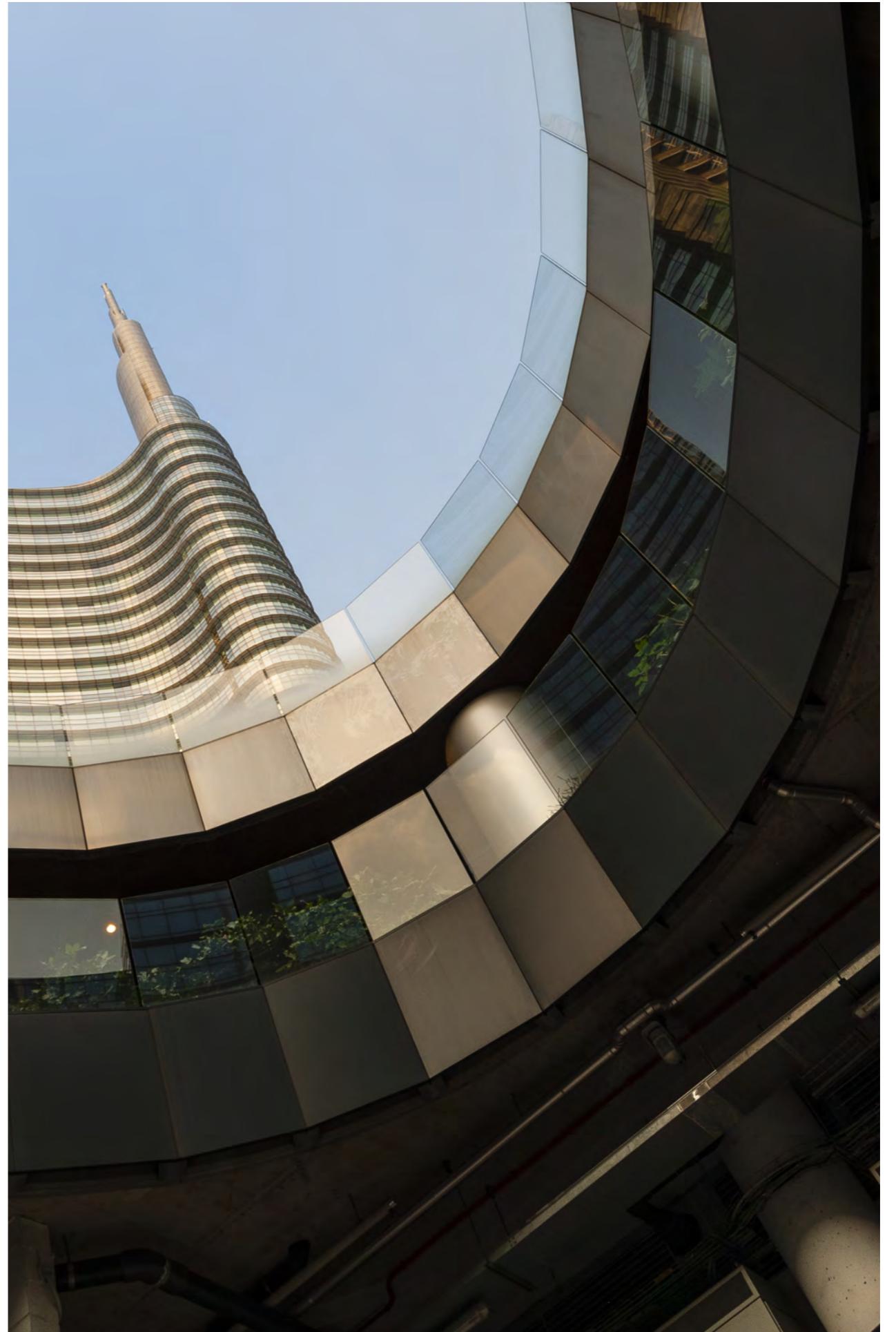
Structural engineering

Competence and experience allow us to conceive extremely performing solutions, functional to the needs and criticalities of the site.

In the field of civil works, we offer design services, works management and static testing. We have specific skills of structural material technology and a considerable experience in the redevelopment of damaged historical buildings. In the field of industrial facilities, the knowledge of production processes allows us to adopt extremely performing solutions, in compliance with the site requirements and its critical issues.

As to structural calculation, thanks to our historical origins, we offer expert advice on static, dynamic, linear and non-linear numerical calculation, supporting structural and geotechnical design in all engineering sectors.

Gae Aulenti Square, Milan.



Geotechnical engineering

The specific knowledge of construction methods today constitutes the basic know-how of our design.

We offer advice on the analysis of different types of foundations and, in general, on all types of structures interacting with the soil. The specific knowledge of building methods, acquired through many years of experience in the construction site, is today the essential know-how of our design. We can analyze and check the construction phases of tunnels and underground structures, providing optimized solutions like dimensioning and construction site set-up.



Intesa San Paolo Tower, Turin.

Civil and Construction engineering

Customized solutions that respond to the performance of the project and meet the client's requirements.

Our team of engineers and architects can engineer all the architectural components of a project, from the material and formal transposition of the concept design to an integrated and congruent construction system of technological solutions, supplying the best answers to the project performances.

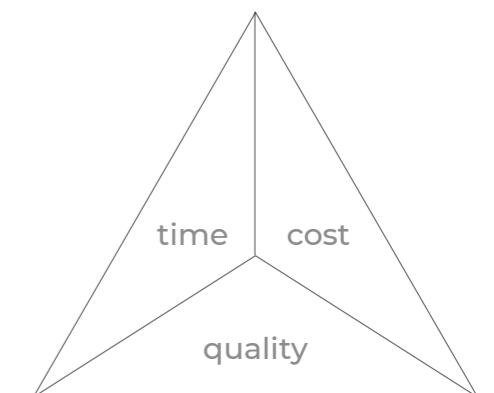
The experience in the science of conventional and innovative materials, as well as our knowledge of their production, processing and installation methods, guarantees the identification of customized and optimized solutions of both industrial and one-off products and components.

Project Management

We plan the execution of the project by checking and verifying the achievement of all its milestones and objectives.

In the field of Project Management we apply all of our knowledge. This, together with the personal skills and experiences of our Project Managers, translate into the achievement of the project objectives and the satisfaction of our client's requirements.

Our Project Managers accompany the project in all its phases, from design to construction. To us, each project is unique and complex. Through a continuous process of planning, execution and control of the various resources, we ensure compliance with the constraints of time, cost and quality, constantly ensuring communication among all stakeholders.

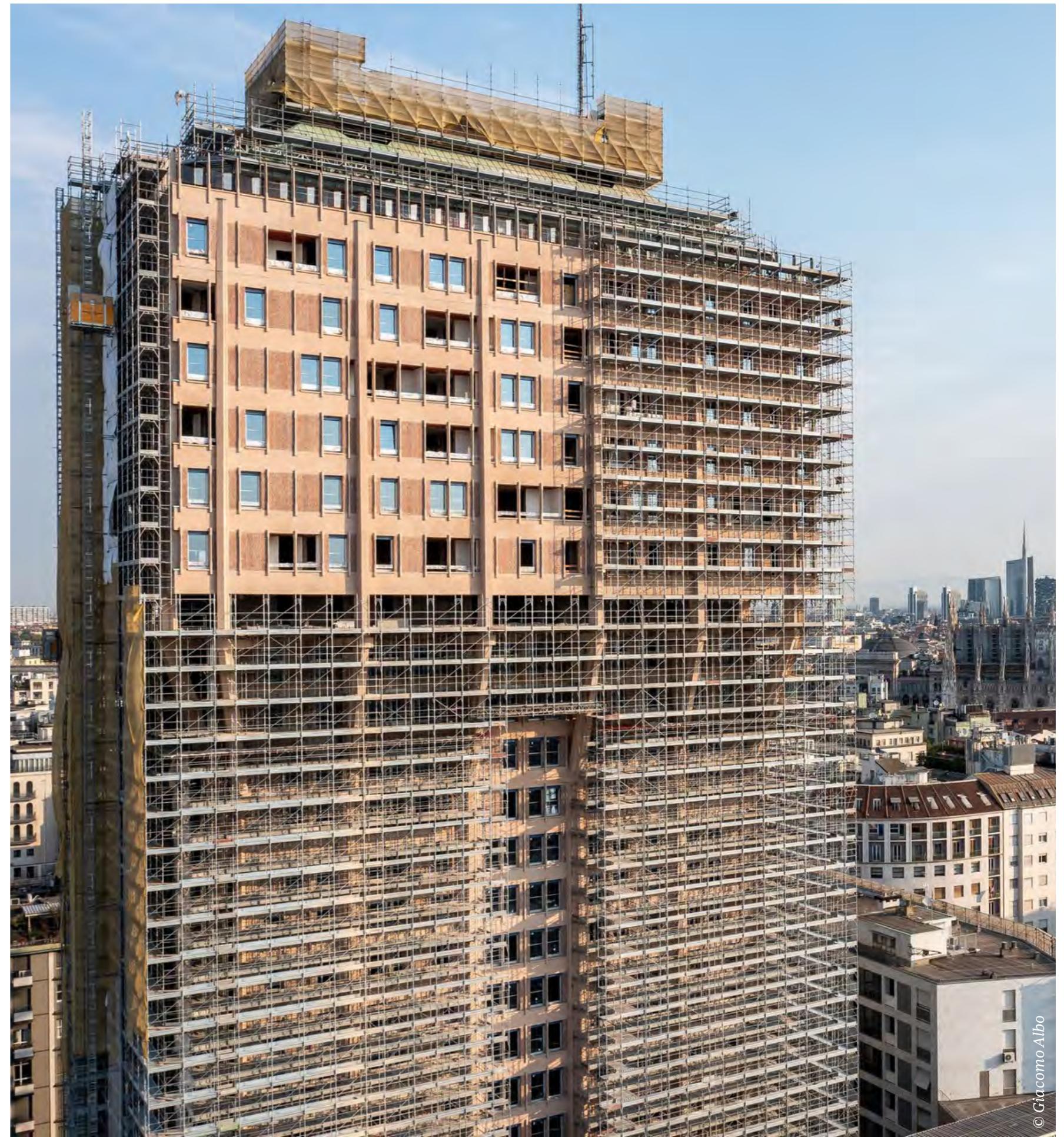


Construction supervision

We supervise the construction work to safeguard the successful completion of the project, coupling with the relevant building regulations, quality standards and design provisions.

We provide professional construction supervision to implement and execute the client's project effectively and in-line with the specified technical documentation and Project Management guidelines. Our experienced team of experts ensure all work conforms to the construction permit, guaranteeing its realization in full compliance with current building and safety regulations. Throughout the construction process, we scrupulously monitor intervention times and costs, so that the final result meets the Client's objectives.

Torre Velasca, Milan.



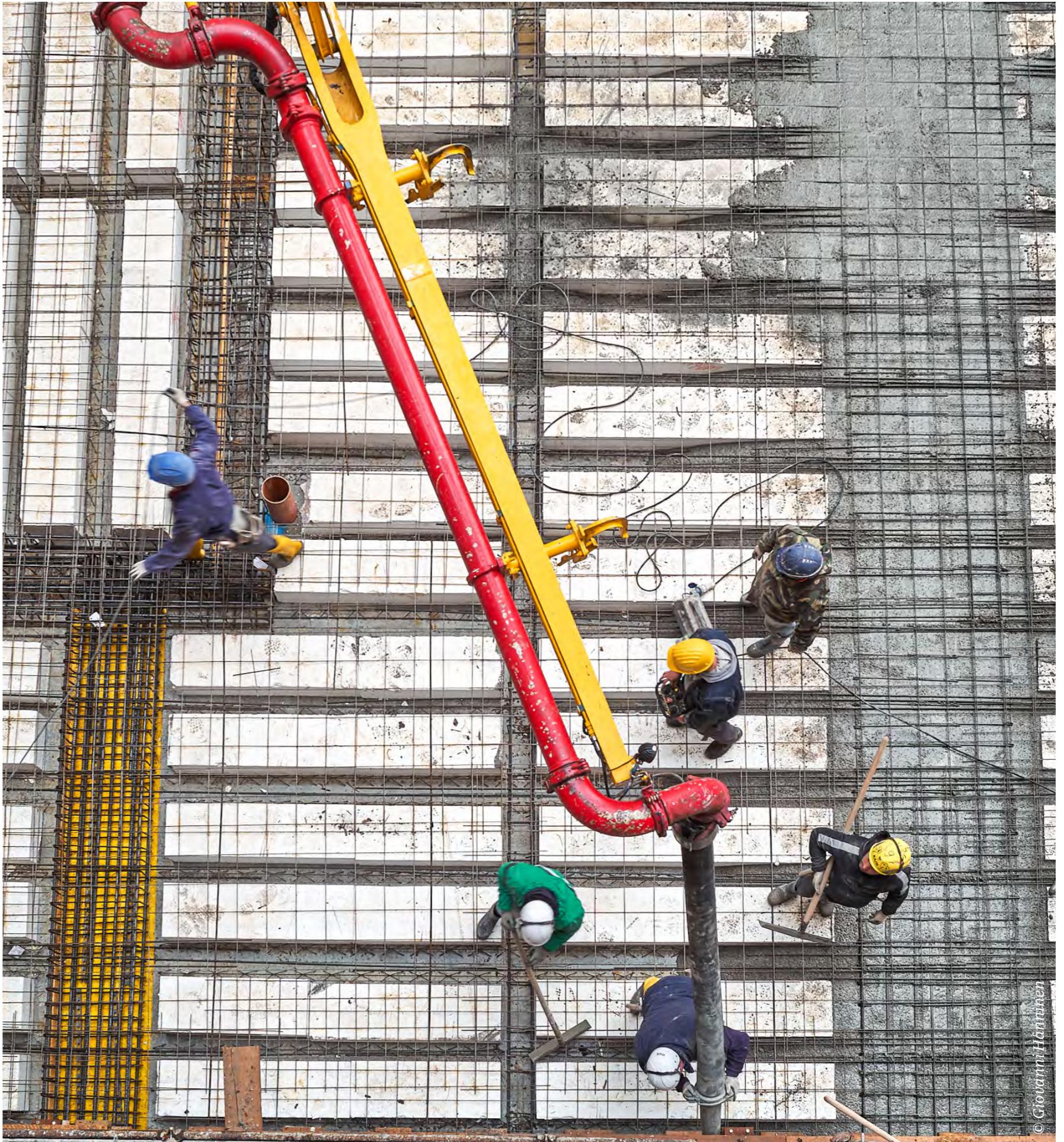
Worksite safety

Our approach helps improve working conditions, increases site productivity and decreases the overall construction cost.

Our approach to safety is based on the principle of ensuring a climate of mutual respect and relaxation in the working environment, which reduces risks at the base, contributes to improving working conditions, increases the productivity of the construction site and decreases the overall cost of construction. Our activity of safety coordination in the design and construction phase of a work is based on a continuous cycle of analysis, evaluation, organization and control of all processes.

We have over 20 years of experience in the field, combining worksite experiences with the specialized knowledge of the different disciplines, in a process that we consider an integral and synergistic part of our design practice, for a result of quality and control of time and costs on behalf of our clients.

Bettinelli 3, Milan.



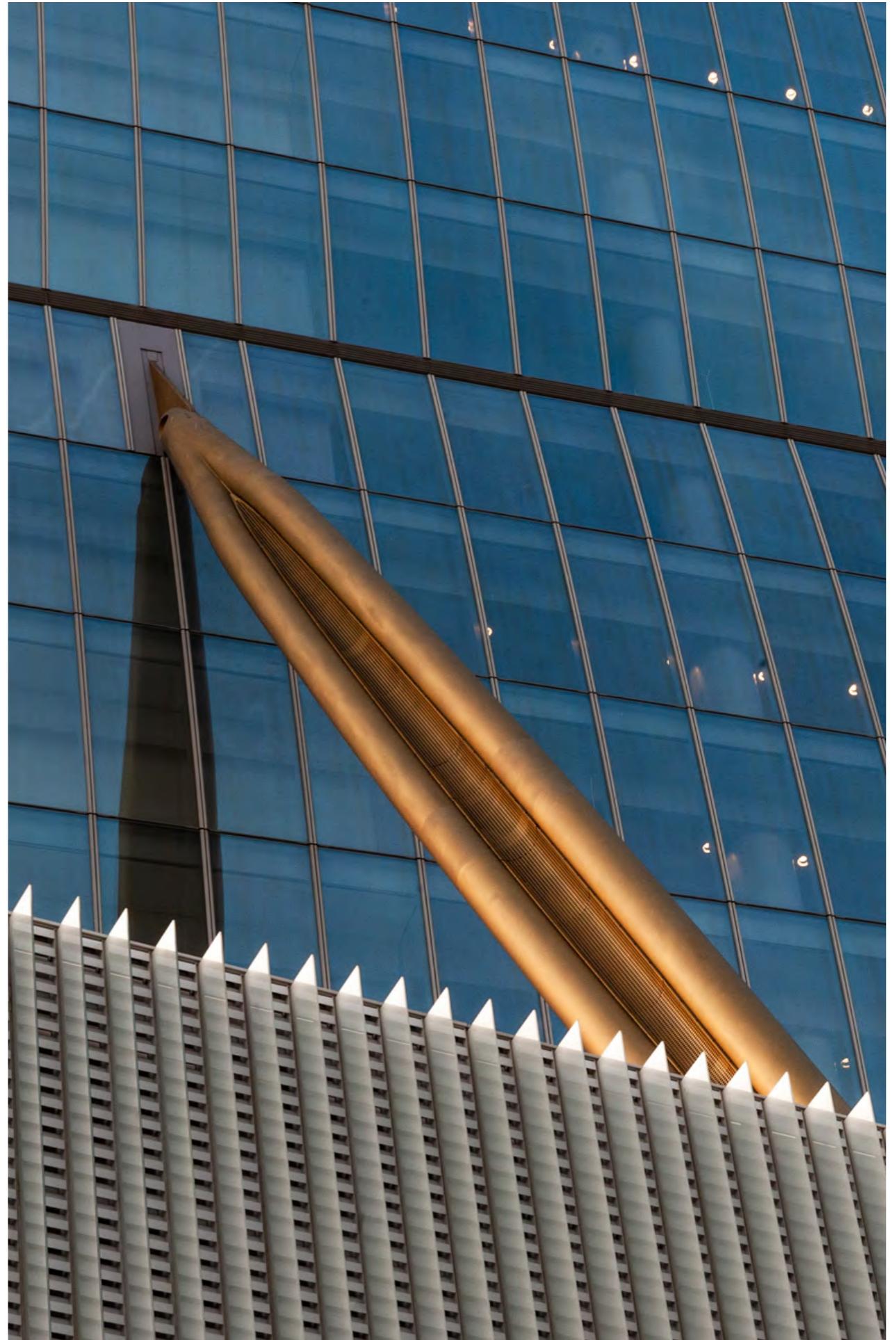
Structural certification, CIS and consulting

A complete service for evaluating the performance and adequacy of the work as defined by current building regulations.

We perform final testing of structures of various types according to Law 1086/1971 and the D.P.R. 380/2001. We gained extensive experience in the field of administrative and technical testing of public work aimed at verifying its compliance with the technical and economic requirements defined in the design phase. We also issue certificates of structural static performance according to the Building Regulations of the Municipality of Milan, by adopting the guidelines for the verification of buildings in force within the municipal area.

We also support our clients by offering technical advice and assessment consulting in the event of disputes relating to the building construction.

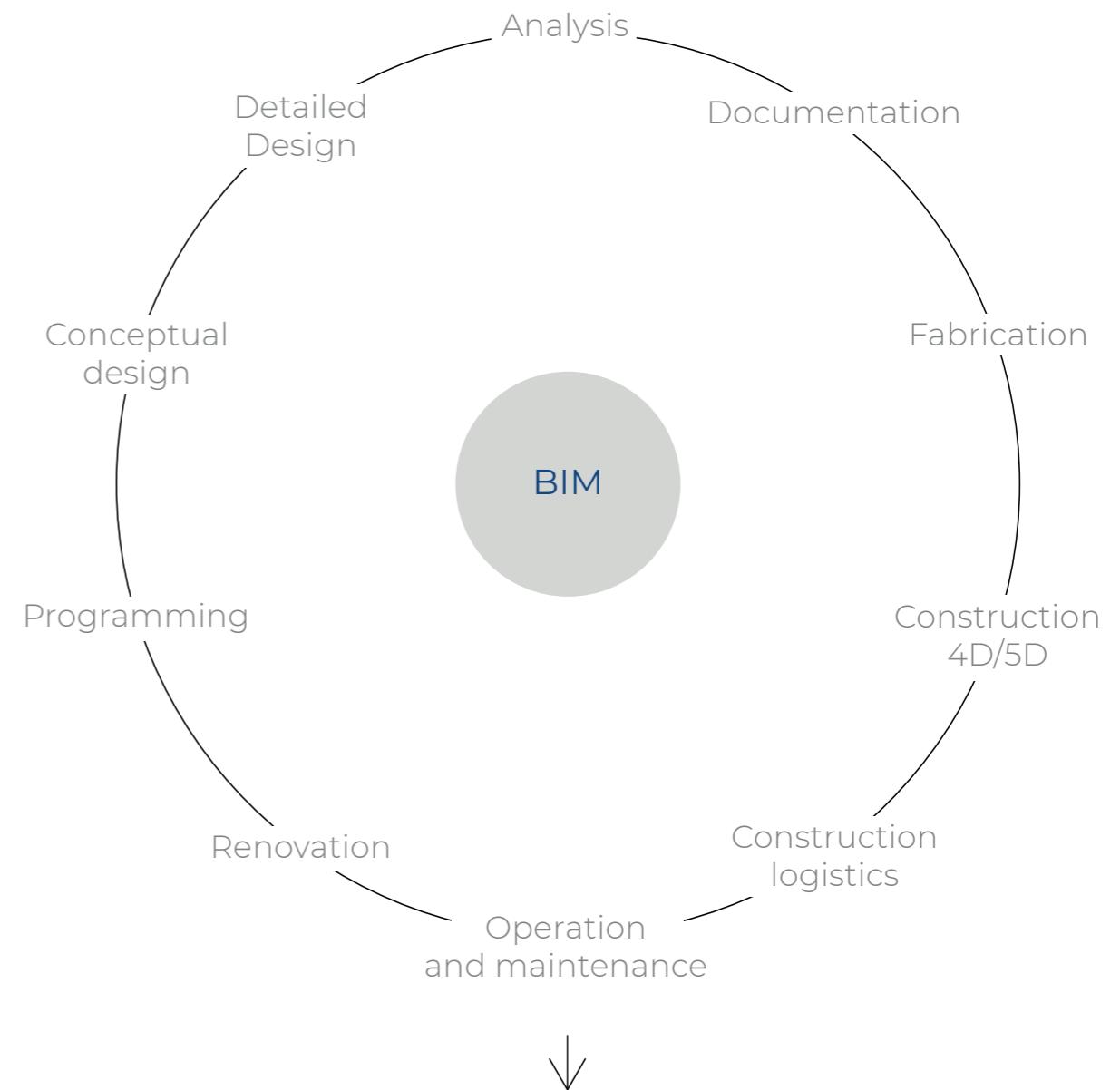
City Life Complex, Milan.



Building Information Modeling

The integrated management of all the geometric and informative data of the construction, throughout its entire life cycle.

With BIM we offer our clients the digitalized management of processes by developing a collaborative work approach. Thanks to this innovative tool, we guarantee the integrated management of all the geometric and informative characteristics of the construction, throughout its life cycle, from the programming and design phases, to those of construction and maintenance. We provide our clients with the IT infrastructure for the collection and organized management of data, ensuring accessibility, traceability and storage. This does not mean simple modeling of projects, but complete management potential, which stem by validating the models and thus elevating the design to much more than a simple three-dimensional representation of the future construction. At CEAS we have paved the way for a major change of mindset, offering our clients further opportunities for efficiency and quality.



BIM 45 *Bim45 is the graphic sign conceived to inaugurate the fifth dimension of CEAS. A sustainability and competitiveness statement that marks CEAS' 45th year of activity (1980-2025) and the adoption, by the Italian regulatory system, of the guidelines that CEAS practices and pursues, now summarized in Bim45.*



greenpeace

Our approach

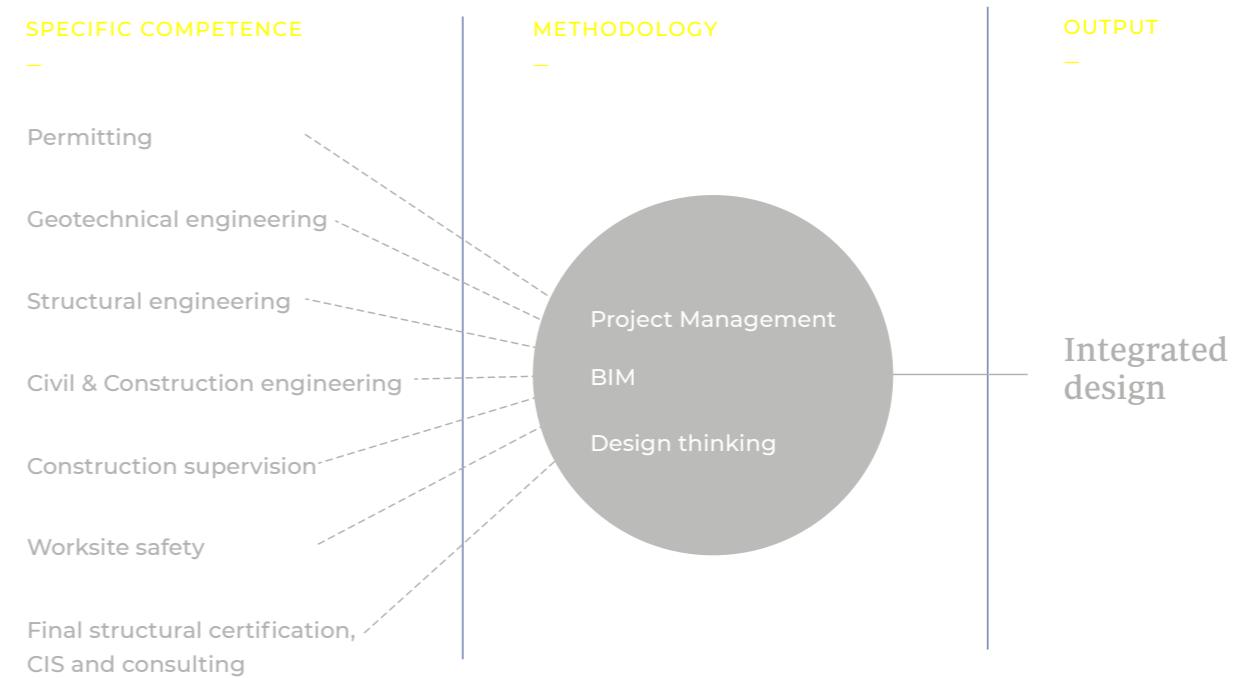
Construction, experience, devotion.

At CEAS, we're not just advisors; we're creative and pragmatic partners. Our team consists of diverse engineering and specialized souls that converge and work synergistically to deliver excellence in every project.

Similar to an orchestra, each professional skill set harmonizes seamlessly to unveil both complex and straightforward integrated engineering solutions, consistently meeting the highest standards of quality and sustainability.

OUR INTEGRATED SKILLS

At CEAS, we elevate our projects by seamlessly integrating specialized skills through advanced methods and tools. This approach ensures that we consistently deliver exceptional quality results.



Main areas

A wide range of fields and applications.

We design buildings and structures that adapt to evolving demands – whatever the intended use of the asset, our distinctive design condenses our technical knowledge with the requirements of the architectural project, always taking into account sustainability and the impact on the community.

Creativity and flexibility allowed us to gain experience in the design and construction management of assets spanning from urban scale to infrastructure, workplaces, commercial, industrial, residential buildings and complexes.

RESIDENTIAL

Apartment complexes, villas, towers, student housing

COMMERCIAL

Retail, shopping centers, medical centers, restaurants

OFFICES

Business, research studios, laboratories

HOSPITALITY

Luxury hotels, SPA, guesthouses

GENERAL INTEREST

Exhibition centers, public halls, cultural hubs

INFRASTRUCTURAL

Roads, bridges, tunnels, underground parkings, railways

INDUSTRIAL

Manufacturing, heavy industrial buildings, research and development

LOGISTICS

Warehouses, storage and distribution, data centers

SPORT & LEISURE

Sports halls, stadiums, outdoor and indoor halls

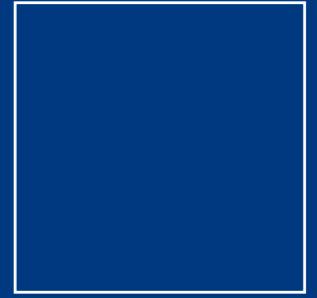
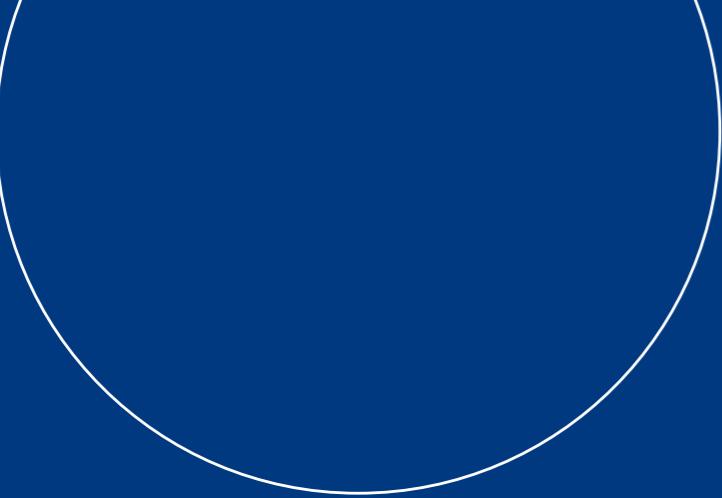
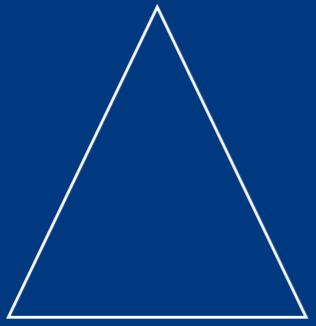
Gae Aulenti Square, Milan.





FONDAZIONE PRADA

Iconic projects





City Life

Area
Commercial

Activities
- Final structural certification

⑦
Urban Regeneration



①
Urban Regeneration

Torre Intesa Sanpaolo **BIM 45**

Area
Commercial

Activities
- Control and verification of the structures' construction project
- Assistance to general construction supervision "DL" in the preparation of tenders
- Structural construction supervision "DL"
- Assistance to final structural certification

②
Sustainability

Eataly Green Pea **BIM 45**

Area
Commercial

Activities
- Preliminary, developed and detailed structural and geotechnical design
- Structural construction supervision "DL"



Porta Nuova Garibaldi

Area
Commercial

Activities
- Structural construction supervision "DL"
- Monitoring of present and adjacent buildings
- Assistance to the construction site
- Assistance to the in-progress structural certification
- Study of flows / viability of the underground car park



New Milan Stadium

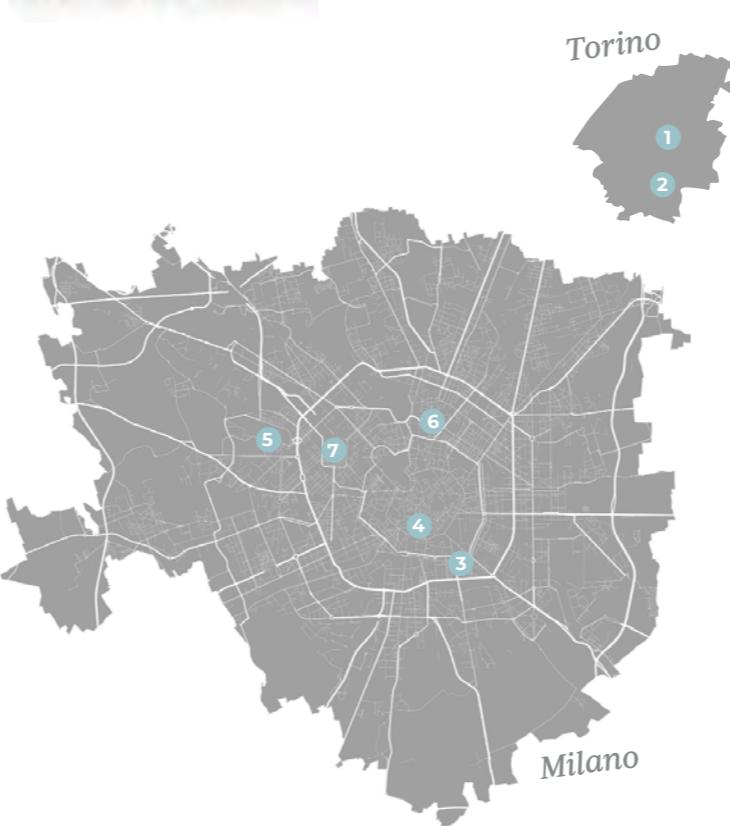
Area
Sport

Activities

- Development of the Economic Technical Feasibility Study (PFTE)
- Technical coordination of the project team during the Public Debate



⑤
Urban Regeneration



④
Redevelopment

Torre Velasca **BIM 45**

Area
Commercial

Activities
- Preliminary, developed and detailed structural design
- Façade renovation project
- Construction supervision "DL" for restoration, façade renovation, and structural work



③
Urban Regeneration

Fondazione Prada Museum

Area
Exhibition

Activities

- Developed design for the issue of the building permit
- Coordination of construction documents design
- General and specialist construction supervision (structures, mechanical and electrical systems, civil works)
- Safety design and safety inspection coordination



Intesa Sanpaolo Tower

Harmonizing space, light and functionality



BIM 45

Activity

3D modeling of structures.
Document management in the construction supervision "DL" phase.

Division

Structural design

Design phase

- Structural construction supervision

Software

Tekla

Lead engineers

- Technical manager: Ing. B. Finzi

Location

Corsso Inghilterra 3, Torino

Year

- Construction supervision "DL": 2008 – 2015

Client

Jacobs Italia SpA

Concept design

Renzo Piano

Area

Offices

Activities

- Control and verification of the structures' detailed project
- Assistance to general construction supervision "DL" in the preparation of tenders
- Structural construction supervision "DL"
- Assistance to final structural certification

Project cost

300.000.000,00 €

Structure cost

112.600.000,00 €

Size

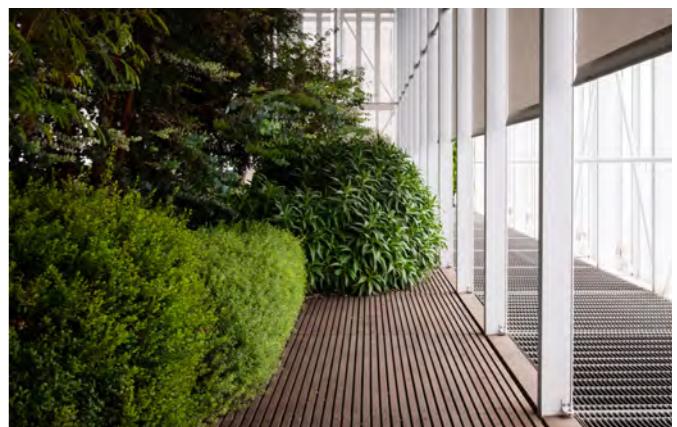
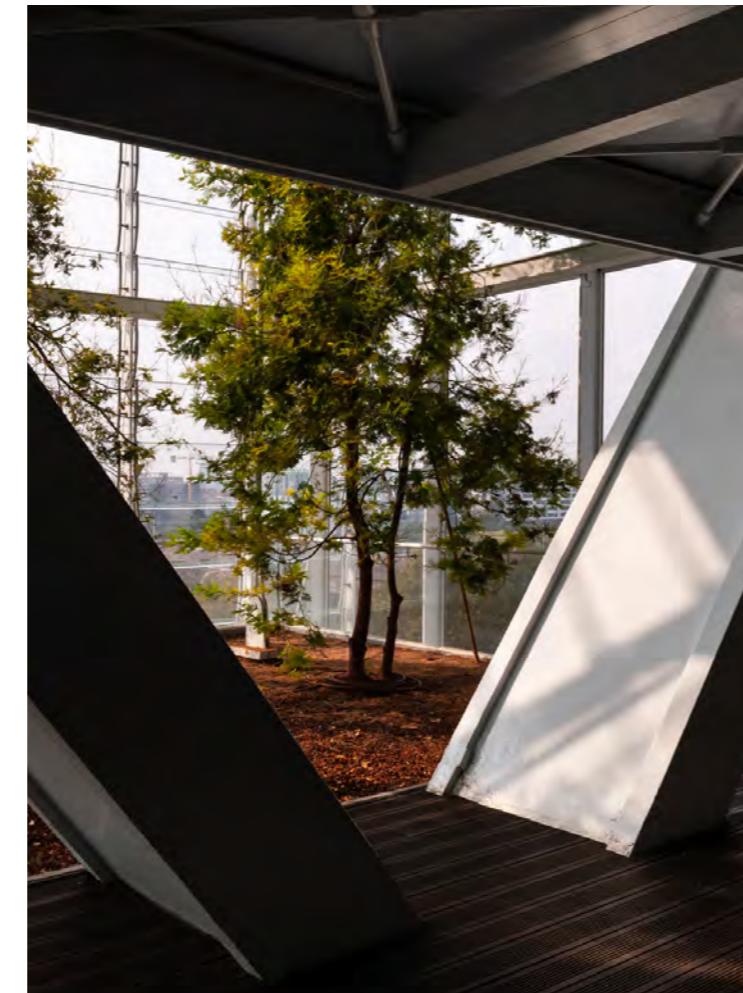
- GFA: 50.000 sqm
- GDA: 107.500 sqm approx.
- n. underground floors: 6 - n. floors above ground: 37
- Height: 160 m approx.

Certifications obtained

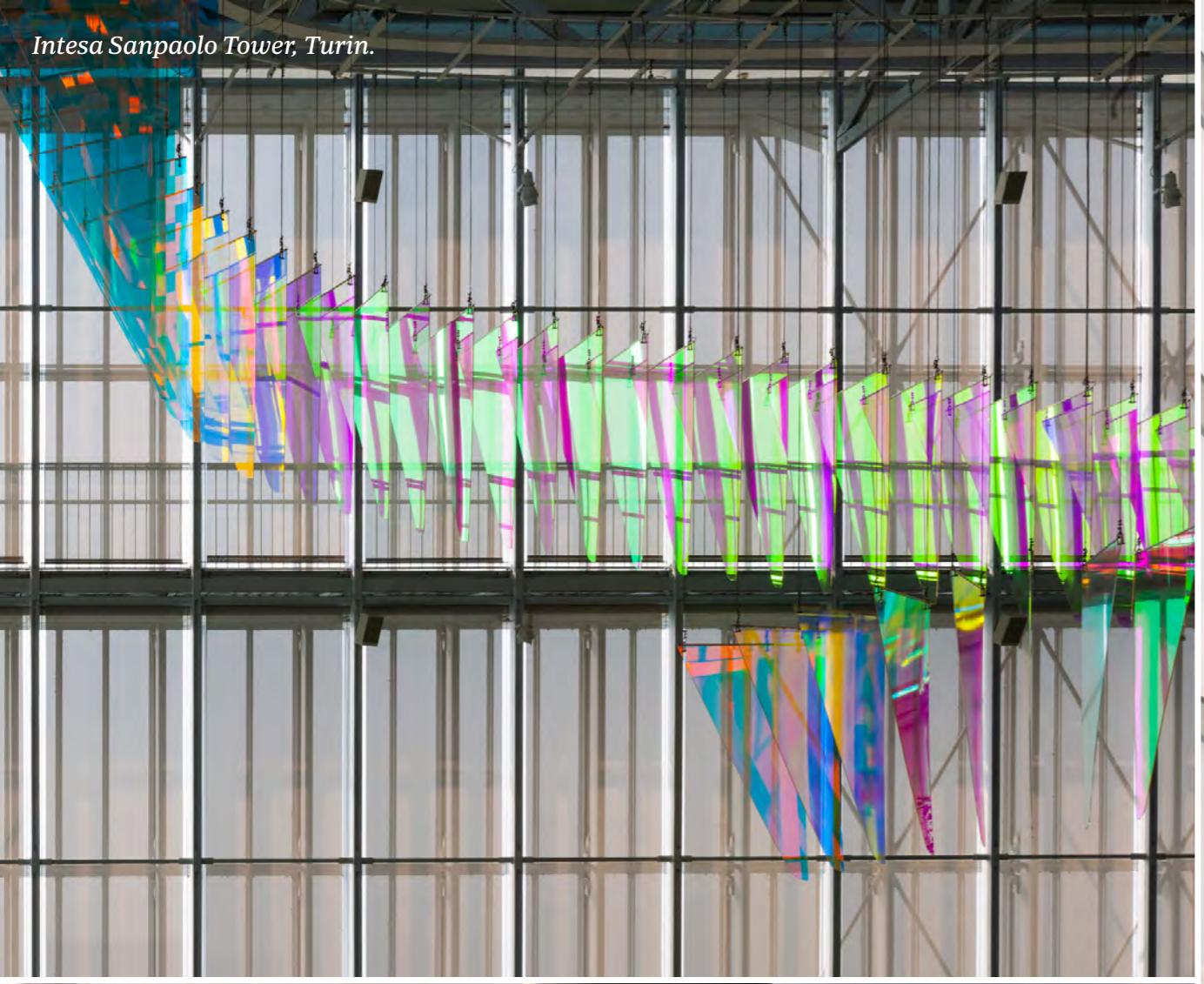
LEED Platinum "sustainable building management" category

Lead engineers

- Ing. Bruno Finzi
- Ing. Luca Rossini



Intesa Sanpaolo Tower, Turin.



Eataly Green Pea

Total energy sustainability

Location

Turin

Year

- Design: March 2018 – June 2020
- Execution: September 2019 – December 2020

Client

Eataly Real Estate s.r.l.

Concept design

Negozi Blu Architetti Associati / ACC Naturale Architettura

Area

Commercial

Activities

- Preliminary, developed and detailed structural design
- Preliminary, developed and detailed geotechnical design
- Structural construction supervision "DL"

Project cost

25.000.000,00 € (est.)

Structure cost

9.000.000,00 €

Size

- GFA floor: 10.500 sqm - GBA: 24.000 sqm - Sales area: 5.600 sqm
- Services, restaurant and wellness area: 4.900 sqm
- N. retail spaces: 35 - N. parking: 620

Certifications obtained

Protocollo ITACA

Lead engineers

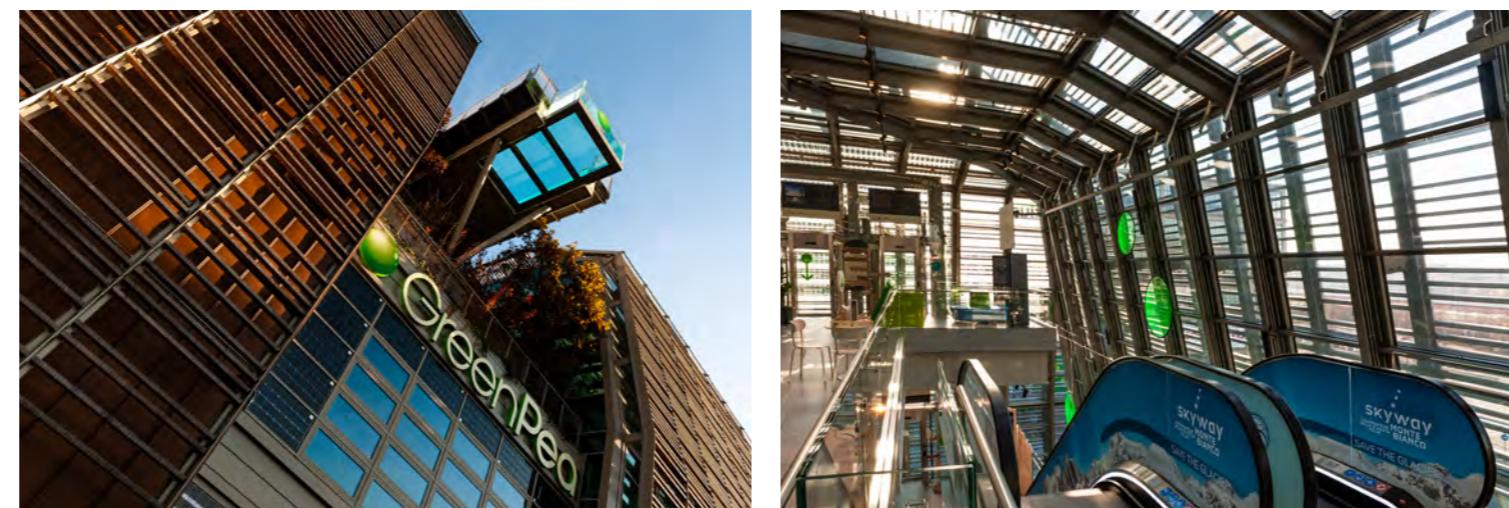
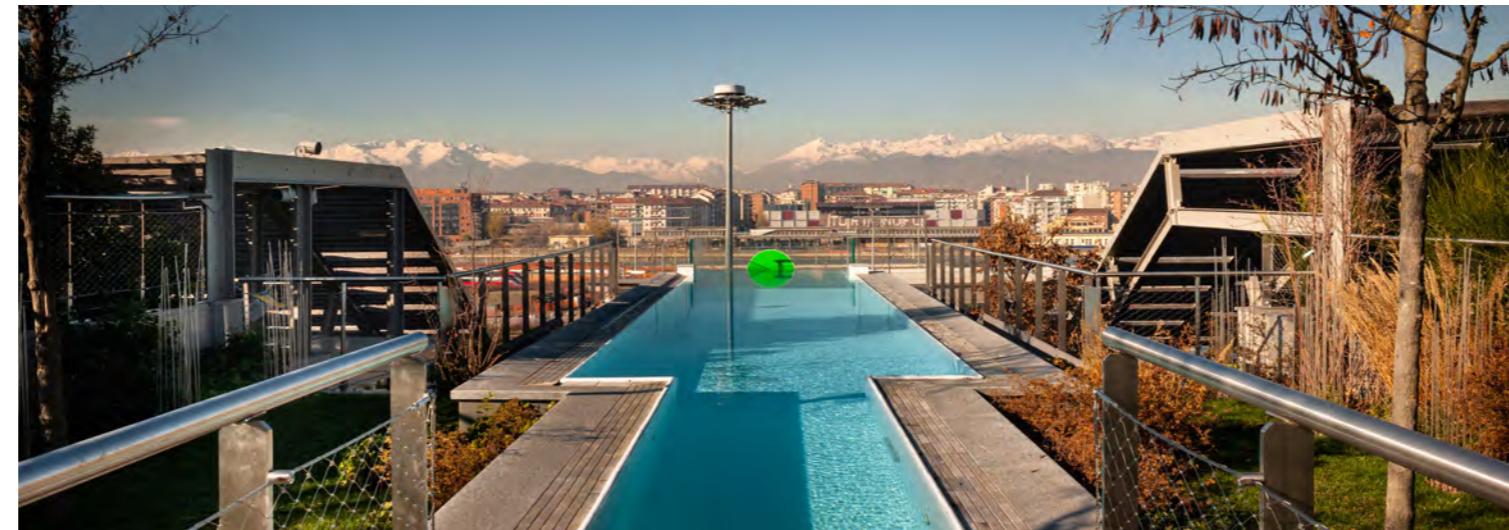
- Ing. Bruno Finzi
- Ing. Mauro Savoldelli

Regulatory framework

New construction

Sustainability

The choice of steel as the main material is due to its mechanical performance, but also by its features of reuse and contribution to the circular economy



**BIM
45**

Activity

3D modeling of structures.
Extraction of documents from model.
Coordination with the architectural and plant engineering disciplines

Division

Structural design

Design phase

- Preliminary design
- Developed design
- Detailed design

Software

Tekla

Lead engineers

- Technical manager: Ing. B. Finzi
- Senior engineer: Ing. M. Savoldelli
- BIM Coordinator: Ing. L. Cattaneo





Eataly Green Pea, Turin.

Fondazione Prada Museum

Multidisciplinary application in the multicultural space

Location

Largo Isarco 2, Milan

Year

- Construction supervision "DL": 2010 – 2017

Client

Prada SpA

Concept design

OMA - Rem Koolhaas

Area

Exhibition

Activities

- Developed design for the issue of the building permit
- Coordination of construction documents design
- General and specialistic construction supervision "DL" (structures, mechanical and electrical systems, civil works)
- Safety design and inspection coordination

Project cost

75.217.225,71 €

Structure cost

29.242.150,18 €

Size

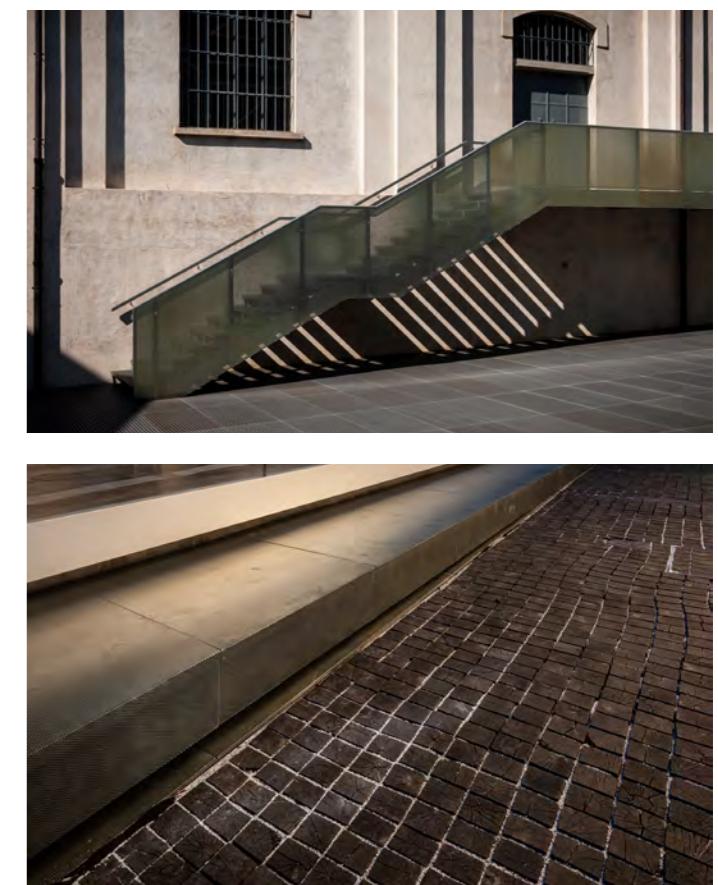
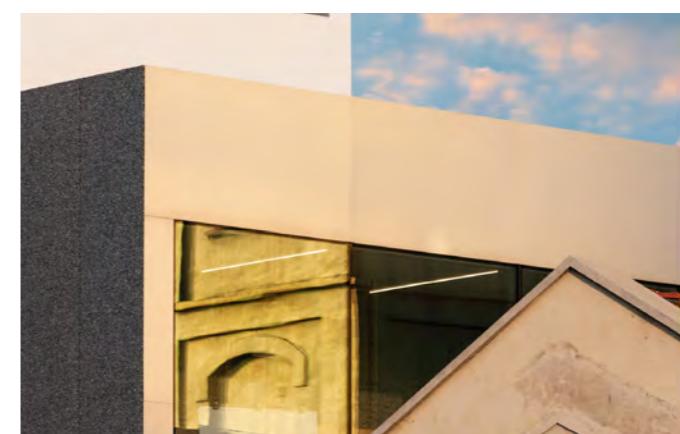
- 19.000 sqm
- 10 buildings

Lead engineers

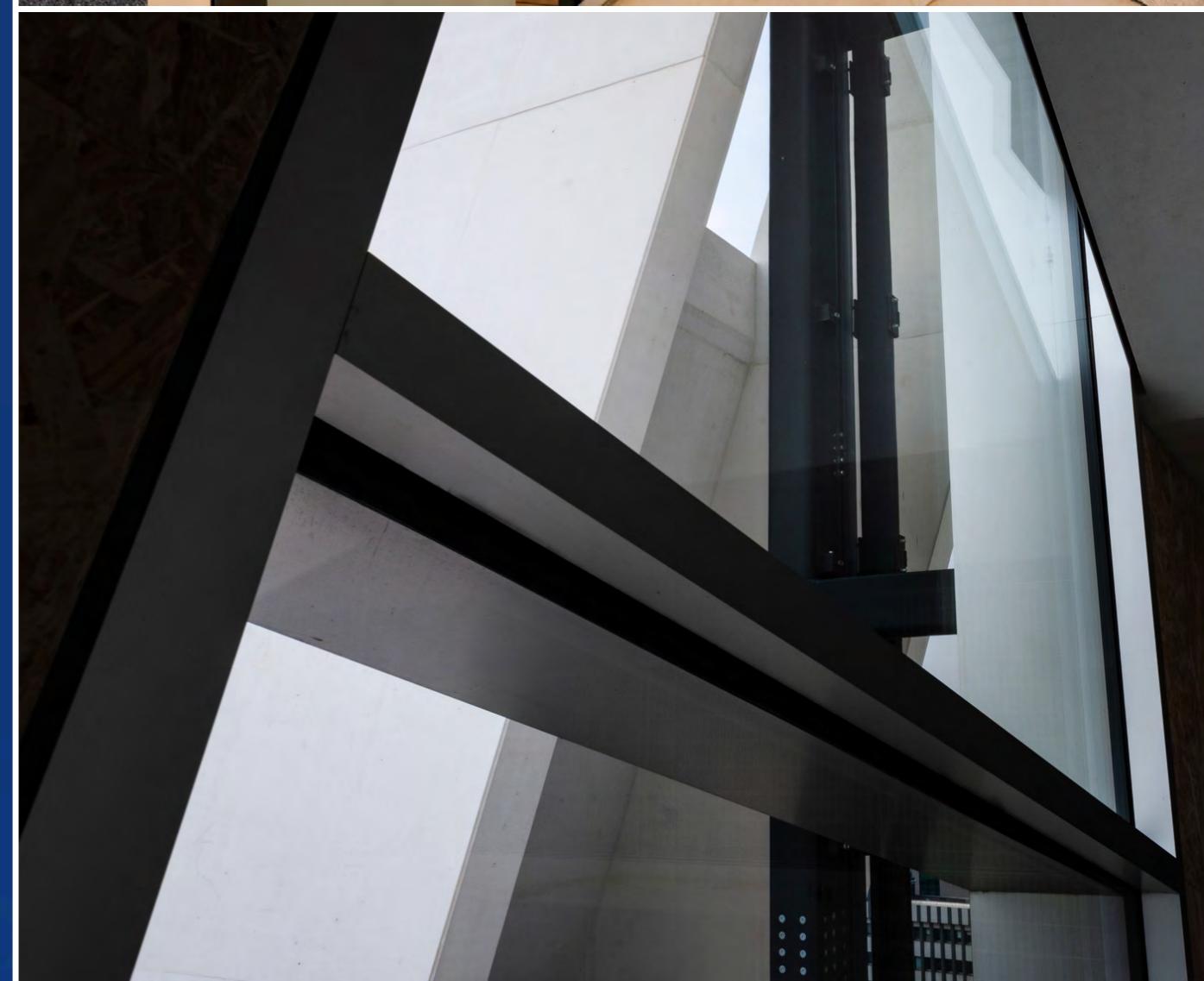
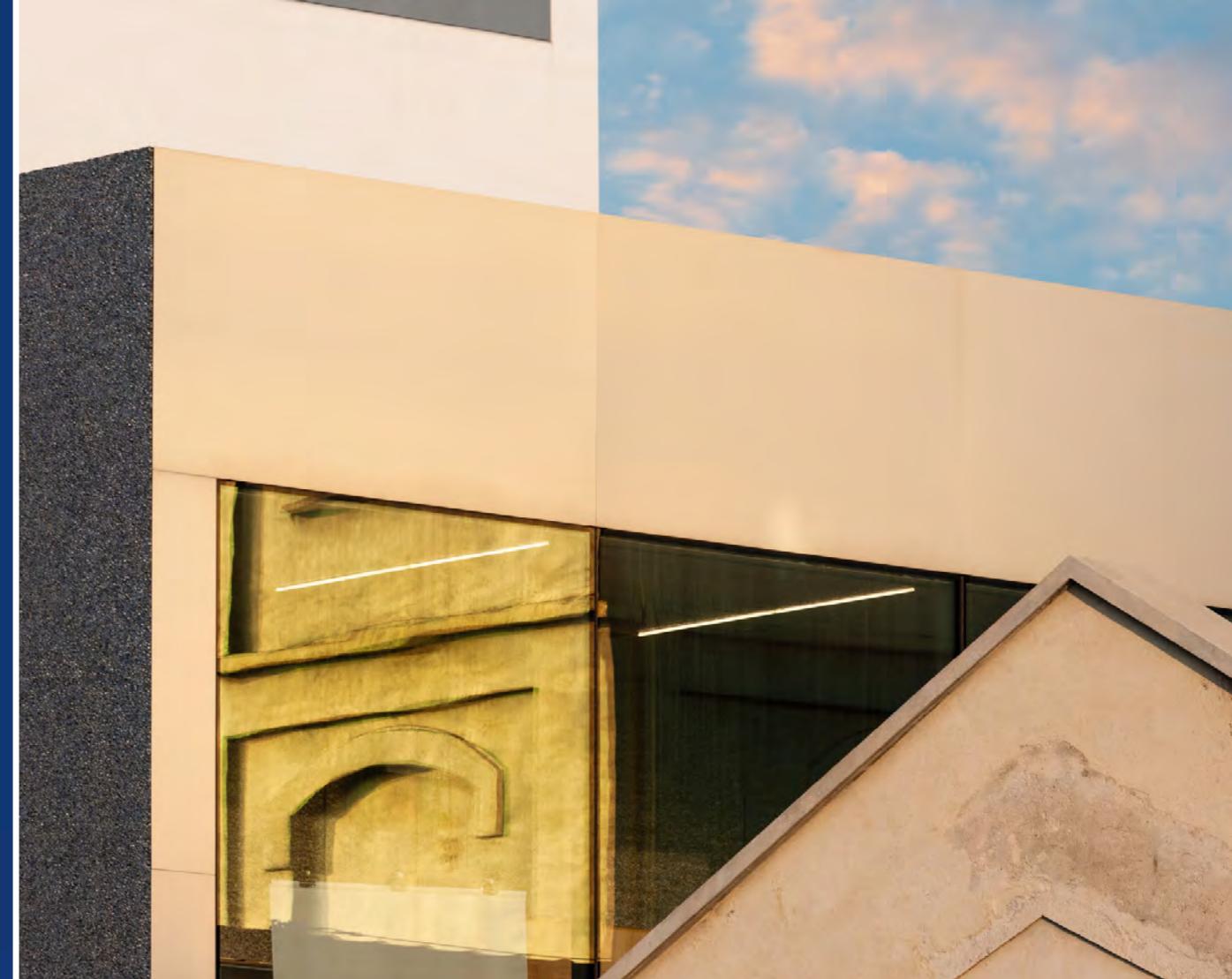
- Ing. Patrizia Polenghi
- Ing. Bruno Finzi
- Ing. Valter Carni

Regulatory framework

Building renovation and new construction



Fondazione Prada, Milan.





Torre Velasca

BIM 45
Refurbishment of an icon



Location

Piazza Velasca, Milan

Year

- Design: November 2019 – July 2021
- Construction supervision "DL": November 2020 – ongoing

Client

PRELIOS SGR

Concept design

Studio BBPR

Area

Offices

Residential

Activities

- Preliminary, developed and detailed structural design
- Façade renovation project
- Construction supervision "DL" for restoration, façade renovation, and structural work

Size

- GFA: 18.971 sqm
- GBA: 25.755 sqm

Certifications obtained

LEED Gold

Lead engineers

- Ing. Bruno Finzi
- Ing. Mauro Savoldelli

Regulatory framework

Seismic retrofit

Porta Nuova Garibaldi

Reuniting the city, redeveloping the urban fabric



Location

Piazza Gae Aulenti, Milan

Year

- Construction supervision "DL": 2008 - 2012

Client

Hines Italia SGR SpA

Concept design

César Pelli

Area

Offices

Activities

- Structural construction supervision "DL"
- Monitoring of present and adjacent buildings, verticality checks of Tower A
- Assistance to the construction site
- Assistance to the in-progress structural certification
- Study of flows / viability of the underground car park

Structure cost

67.000.000,00 €

Size

- Over 290.000 sqm
- 231 m height of Unicredit tower
- 1.113 car park slots

Certifications obtained

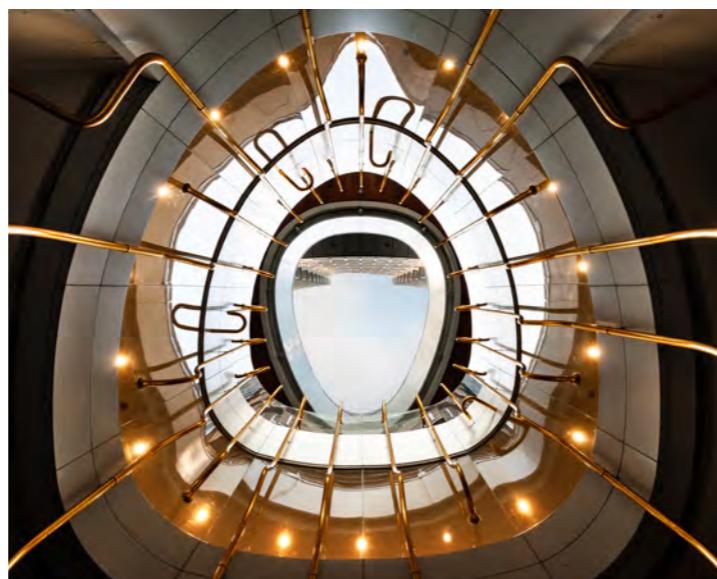
LEED Gold

Lead engineers

- Ing. Giovanni Canetta
- Ing. Bruno Finzi
- Ing. Luca Rossini

Regulatory framework

New construction





Porta Nuova Garibaldi, Milan.

City Life

High technology

Location

Piazza Tre Torri, Milan

Year

- 2011 - 2021

Client

CityLife S.p.A.

Concept design

Zaha Hadid

Daniel Libeskind

Arata Isozaki

Area

Commercial / Offices

Activities

- In-progress and final structural certification

(Collaudo statico ongoing d'opera e finale delle opere strutturali)

Project cost

n/a €

Lead engineers

- Ing. Bruno Finzi

- Ing. Luca Rossini



Hadid Tower

Year

- 2014 - 2019

Structure cost

42.026.318,0 €

Libeskind Tower

Year

- 2015 - 2020

Structure cost

16.570.000,00 €

Isozaki Tower

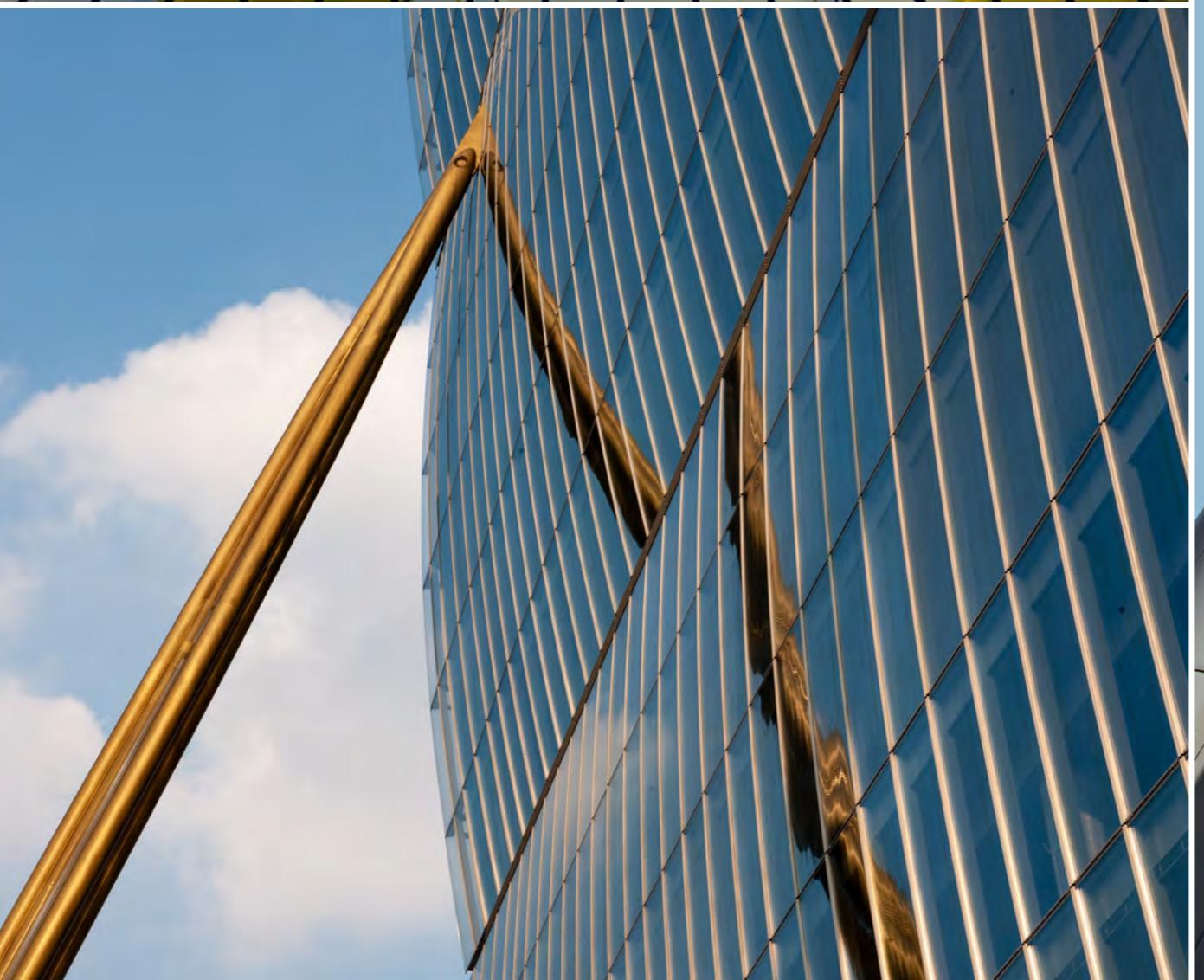
Year

- 2011 - 2016

Structure cost

70.911.257,00 €





New Milan Stadium

Technical-economic feasibility study

Location

Piazzale Angelo Moratti, Milan

Year

- 2019 - 2023

Promoters

- A.C. Milan Spa
- F.C. Internazionale Milan Spa

Concept design

Populous

Activities

- Development of Economic Technical Feasibility Study (PFTE)
- Technical coordination of project team during Public Debate

Size

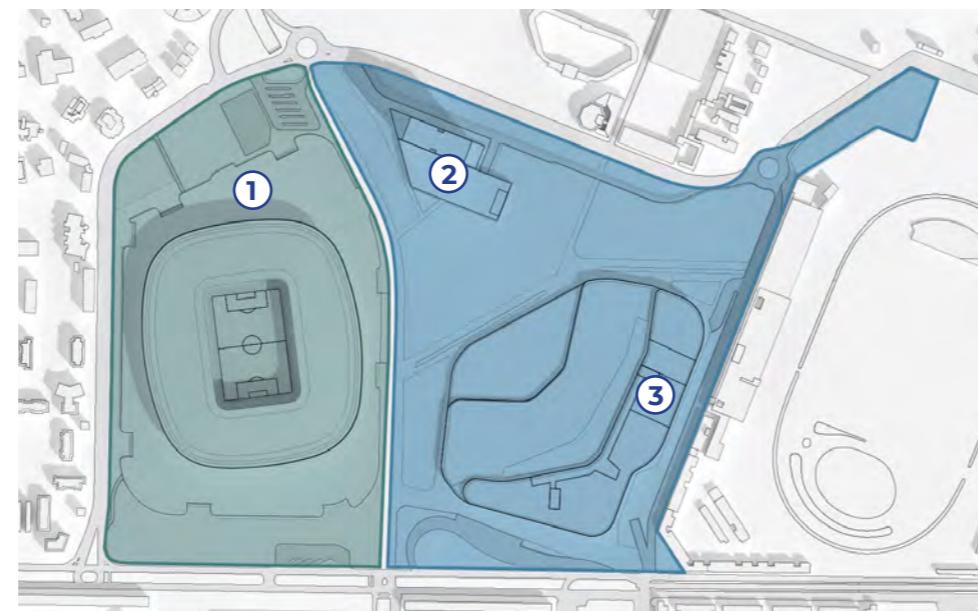
- Territorial area ST: 280.916 sqm
- New stadium's seats: 60.000 - 65.000
- Total build surface: 196.297 sqm

Lead engineers

- Project coordinator: Ing. Patrizia Piera Polenghi

Relevant aspects

- New stadium that enhances the teams' competitive power in the international arena, consolidating their sport leadership
- New zero-emission stadium with reduced visual and acoustic impact
- Energy masterplan introducing innovative systems with high ecological efficiency for a "Nearly Zero Energy Building" NZEB
- Construction of a urban park with double the usable green spaces, with consequent de-pavement of the areas
- Hydraulic efficiency with significant increase in the filtering capacity
- Accessibility system to the sectors defined by the most innovative principles of sustainable and shared mobility
- Car free area dedicated to soft mobility
- New vehicle connectivity system with reconstruction of the Patroclus underpass for underground access to the district
- Construction site development divided into phases that guarantee the usability of the Meazza Stadium and optimizes the duration of the intervention. This also aims at minimizing the impact of the construction site on the district, reducing emissions and improving materials management



BUSINESS GOALS

The scope of the large urban function of the intervention is made up of publicly owned areas circumscribing a surface area of 280,916 square meters.

Purpose: to create a large sports facility divided into distinct sectors:

① Stadium sector

Housing the New Stadium of Milan

② Multi-Purpose sector

Hosting offices, hotels and congress centers

③ Sport & Entertainment sector

Commercial, entertainment and sports functions

OBJECTIVE 1

To build the stadium of Milan, a modern and efficient facility capable of respecting the most innovative technological standards of sustainability and safety

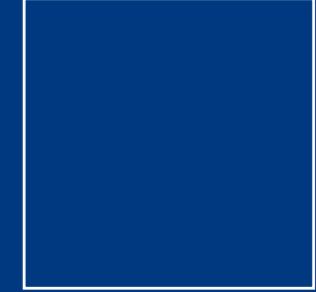
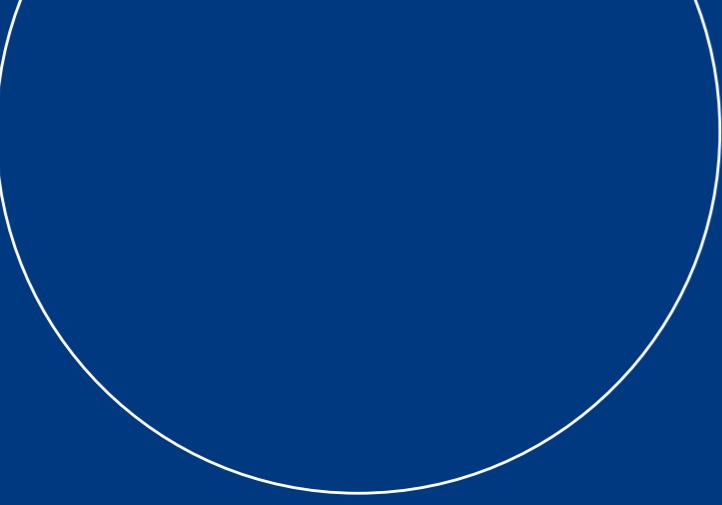
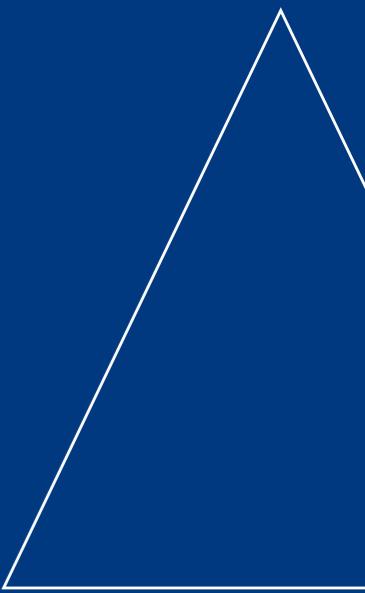
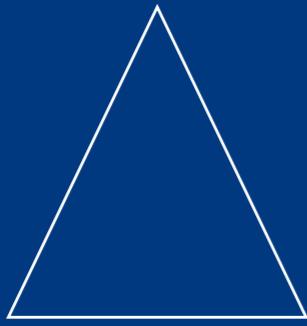
OBJECTIVE 2

Urban regeneration, with the creation of an internal pedestrian area, connections to the city center and the refurbishment of a part of the current "G. Meazza" stadium





Commercial & Offices



Casa BFF BIM 45

People at the center



Location

Milan

Year

- Design: february 2022 - december 2022
- Execution: january 2023 - december 2024

Client

BFF Bank SpA

Area

Offices / Exhibition

Activities

- Preliminary, developed and detailed structural design
- Preliminary, developed and detailed geotechnical design
- Structural construction supervision "DL"

Project cost

33.500.000 €

Structure cost

9.800.000 €

Size

- SLP: 7.350 sqm
- GBA: 19.774 sqm
- Parking spaces: 97

Certifications obtained

LEED Platinum

Lead engineers

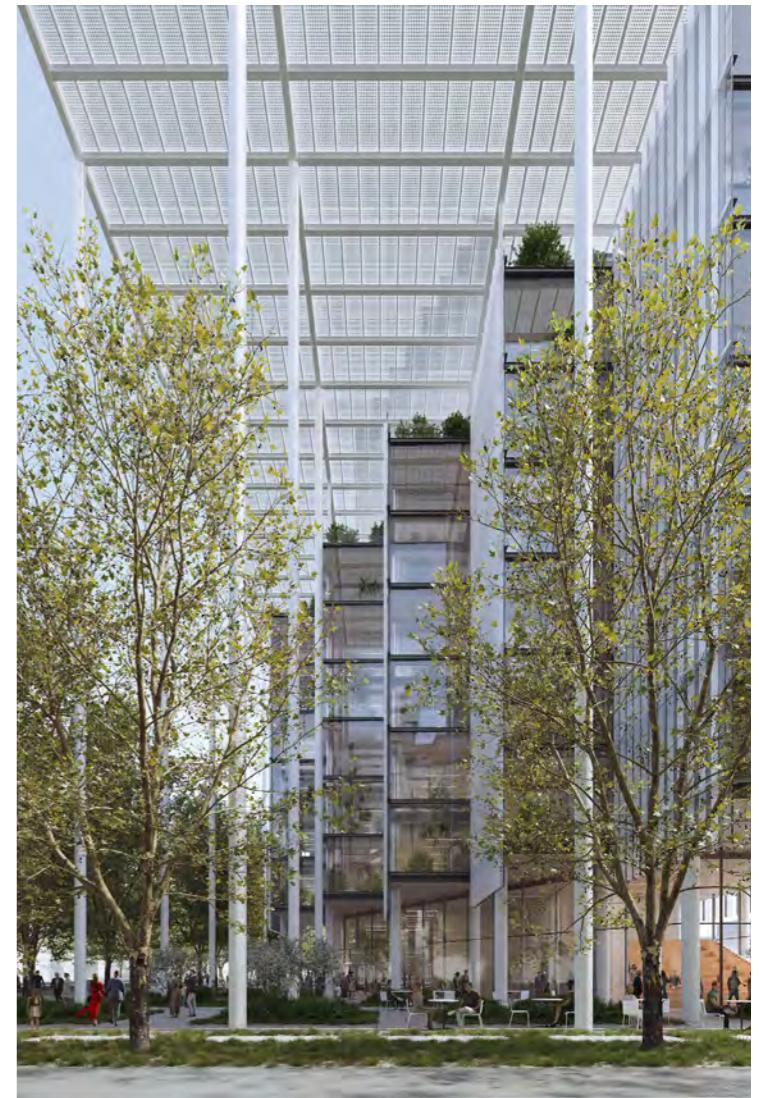
- Ing. Bruno Finzi
- Ing. Gianluca Pittelli

Regulatory framework

New construction

Relevant aspects

- Energetic "Flying Carpet"
- Post-tensioned slabs





Ivory 45

Aesthetics and functionality

Location

Milan

Year

- Design: november 2021 - ongoing

Client

COIMA SGR S.p.A.

Architect

Piuarch

Area

Offices / Commercial

Activities

- Preliminary, developed and detailed structural design
- Preliminary, developed and detailed geotechnical design
- Structural construction documents design
- Architectural design and interdisciplinary coordination during the construction document design phase

Project cost

22.000.000,00 €

Structure cost

4.500.000,00 €

Size

- Total surface: 14.000 sqm
- 12 floors above ground
- 1.400 sqm of panoramic terraces

Lead engineers

- Ing. Gianluca Pittelli
- Ing. Davide Emmanuello

Regulatory framework

Seismic retrofit

Relevant aspects

- Seismic and static retrofit of elevations and foundations, for a renovation project involving raising and expansion
- Addition of structural elements from the 8th floor upwards for the elevation and installation of a photovoltaic canopy
- Delicate temporary support activities for the conversion of internal structures to accommodate the new functional layout (relocation of pillars, shafts, and increased floor areas)



© Piuarch



Villaggio Olimpico

BIM 45
An Olympic athletes' home

Location

Scalo di Porta Romana, Milan

Year

- Design: may 2021 - december 2022
- Construction: january 2023 - december 2025

Client

COIMA SGR S.p.A. (ESG City Impact Fund)

Area

Hospitality / Commercial

Activities

- Preliminary, developed and detailed structural design
- Preliminary, developed and detailed geotechnical design

Project cost

140.000.000 €

Structure cost

35.000.000 €

Size

Underground: 25,000 sqm - Above ground: 20,000 sqm

GBA: 55.000 sqm

Lead engineers

- Ing. Bruno Finzi
- Ing. Mauro Savoldelli

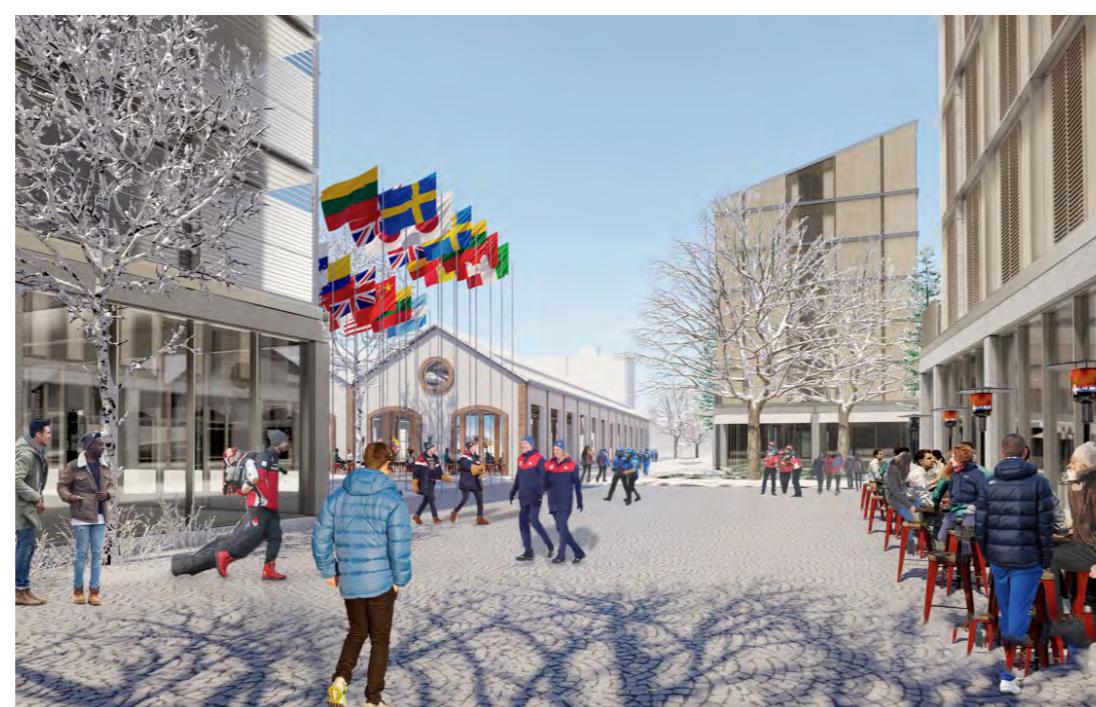
Regulatory framework

New construction designed in compliance with the NTC'18

Relevant Aspects

6 buildings of 9 floors each in reinforced concrete, intended for hotel and future student housing, stand out above a common basement measuring 80 x 300 m. Squares, public spaces, green areas, and retail spaces complete the entire ground floor podium.

The project includes architectural addendum in structural steel - horizontal connections, planned for interconnecting the buildings at above-ground levels. Additionally, two historical buildings are structurally reinforced for seismic and static retrofit purposes. Particularly significant is the new wooden roof of building H, featuring timber truss systems with steel elements.



Balduccio da Pisa

Keyword: reuse

Location

Via Balduccio da Pisa 15, Milan

Year

- Design: 2022 - ongoing

Client

Savills IM SGR SpA

Area

Offices / Retail

Activities

- Preliminary, developed and detailed structural design
- Preliminary, developed and detailed geotechnical design
- Detailed architectural design
- Interdisciplinary coordination throughout all project phases
- General construction supervision "DL"
- Structural and geotechnical construction supervision "DL"
- Safety design coordination / safety inspection coordination
- Ongoing and final structural certification

Estimated project cost

35.000.000 €

Size

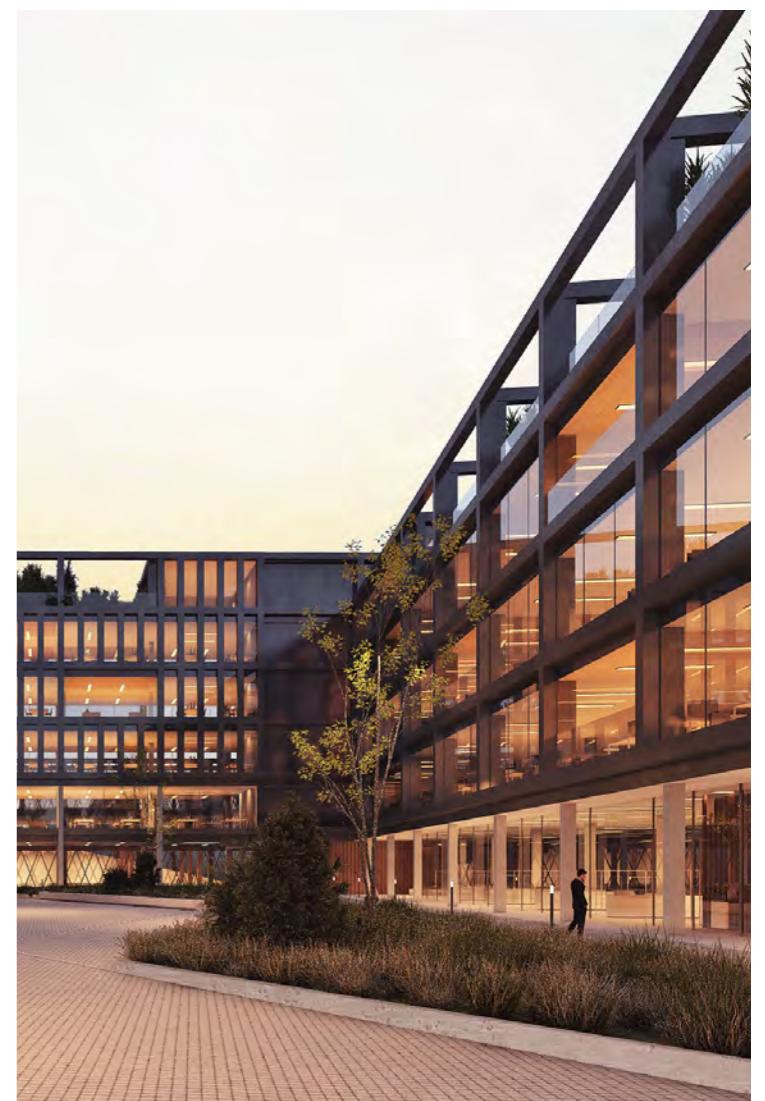
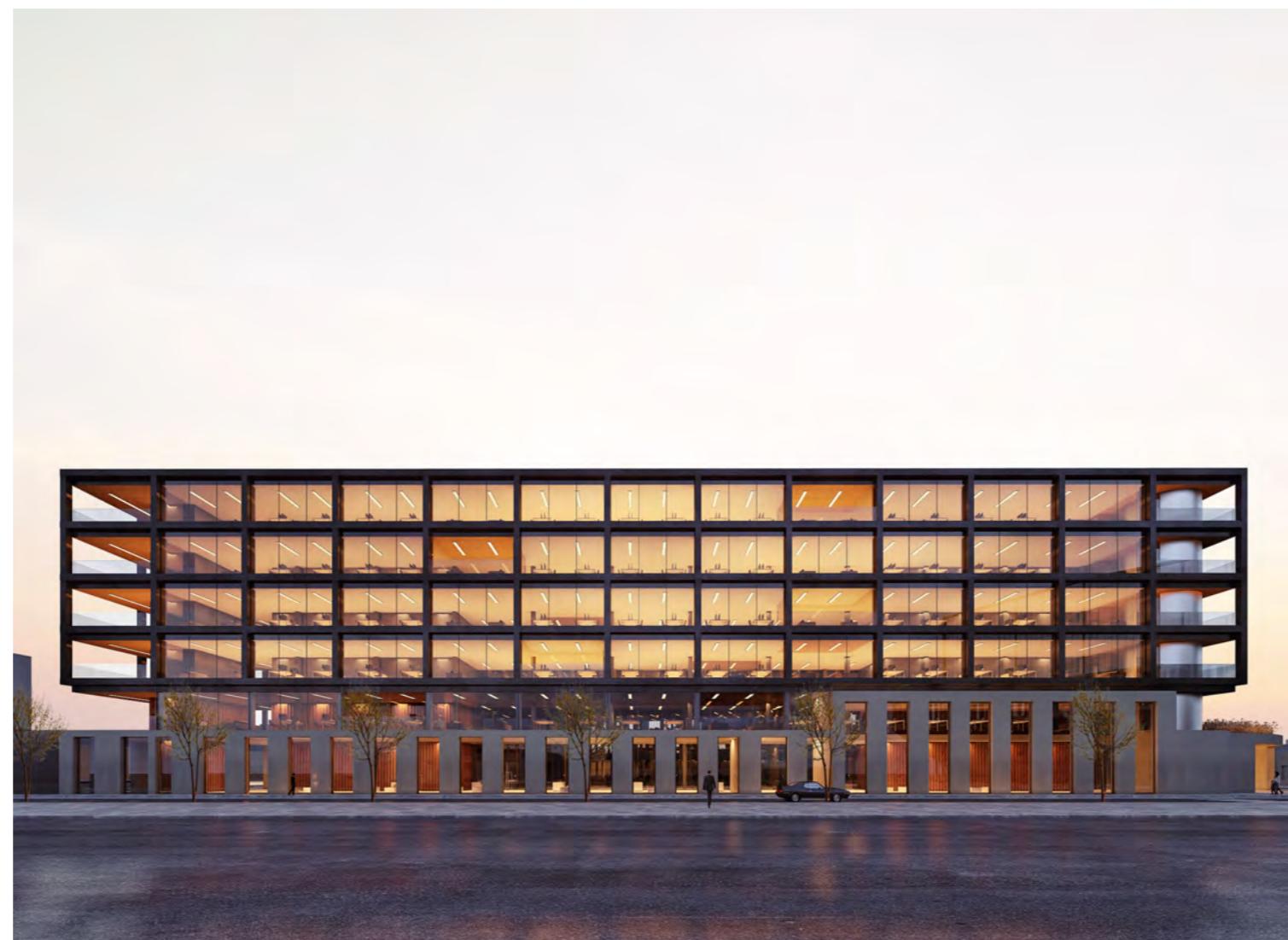
- Total area: 16.716 sqm
- Built-up area: 6.600 sqm
- Construction area: 12.166 sqm
- 270 parking spaces underground and/or above ground

Lead engineers

- Arch. Michelangelo Siracusa
- Ing. Mauro Savoldelli
- Arch. Luciano Miano
- Ing. Raimondo Salaris

Regulatory framework

Building renovation



Mercanti 21

Metropolitan luxury

Location

Via Mercanti 21 / Piazza Cordusio, Milano

Year

2020 - 2021

Promoter

Generali Real Estate SGR SpA

Client

Impresa Percassi Spa

Area

Commercial / Retail

Activities

- Architectural construction documents design
- Structural construction documents design
- Construction documents design coordination

Project cost

9.500.000,00 €

Structure cost

n/a

Size

- about 10.000 sqm

Lead engineers

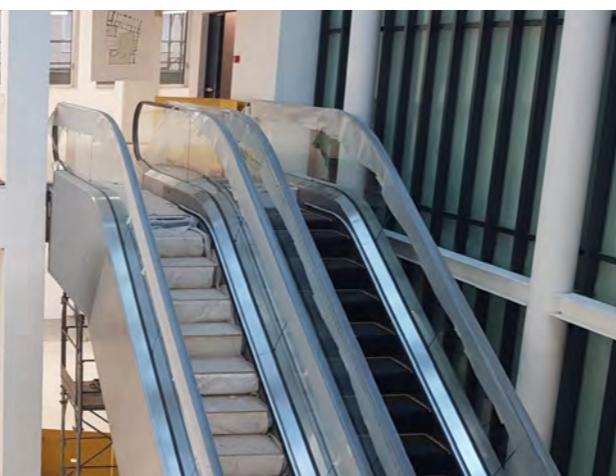
- Ing. Gianluca Pittelli
- Arch. Andrea Zignani

Regulatory framework

Seismic retrofit

Relevant aspects

- All the estate is under the constraint of National Fine art institution and inserted in a highly urbanized context with particular logistical difficulties



Gonin 49-51

Naviglio looks to the future

Location

Via Gonin 49-51, Milan

Year

- Design: 2022 - ongoing

Client

Savills IM SGR SpA

Area

Residential / Commercial / Retail

Activities

- Preliminary, developed and detailed structural design
- Preliminary, developed and detailed geotechnical design
- Detailed architectural design
- Interdisciplinary coordination throughout all project phases
- General construction supervision "DL"
- Structural and geotechnical construction supervision "DL"
- Safety design coordination / safety inspection coordination
- Ongoing and final structural certification

Estimated project cost

105.000.000 €

Size

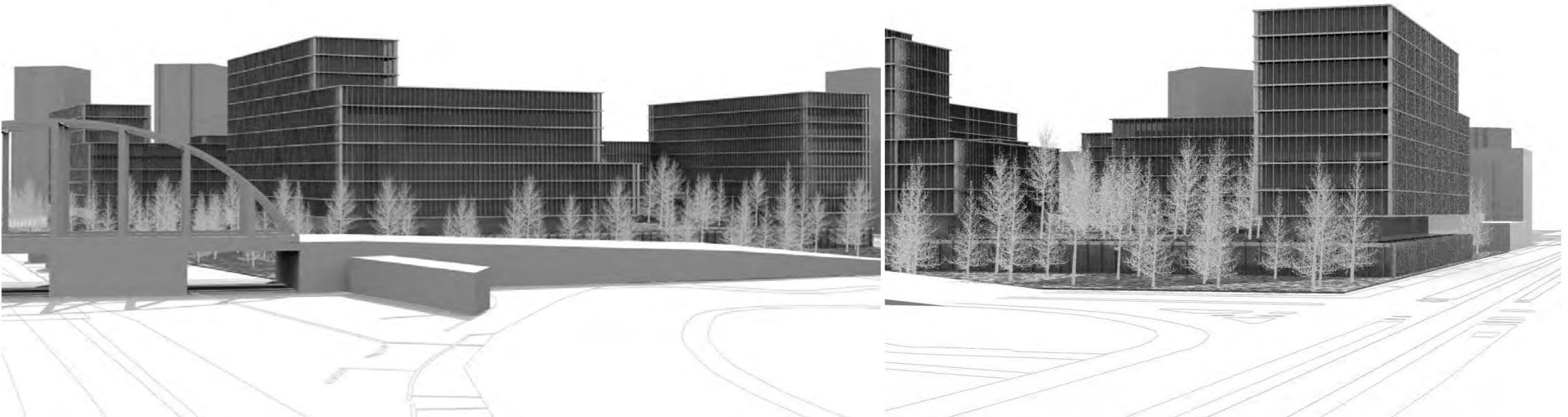
- Total area: 36.181 sqm
- Built-up area: 9.965 sqm
- Construction area: 39.024 sqm

Lead engineers

- Arch. Michelangelo Siracusa
- Ing. Mauro Savoldelli
- Geom. Daniele Bitetto
- Ing. Hicham Maodium

Regulatory framework

Building renovation



Monterosa 91 **BIM 45**

Your green community office



Location

Via Monte Rosa 91, Milan

Year

- Design: october 2019 - september 2020
- Construction: february 2021 - december 2022

Client

AXA Investment Managers srl

Area

Retail / Offices

Activities

- Preliminary, developed and detailed structural design
- Structural construction supervision "DL"

Project cost

40.000.000,00 € (est.)

Structure cost

n/a

Size

- Floor area: 40.000 sqm
- Surface area for services, restaurant, and wellness facilities: 5.000 sqm
- 500 parking spaces

Certifications obtained

Leed Core & Shell Gold

Leed Ebom Platinum

Breeam nd WiredScore, Platinum level

Lead engineers

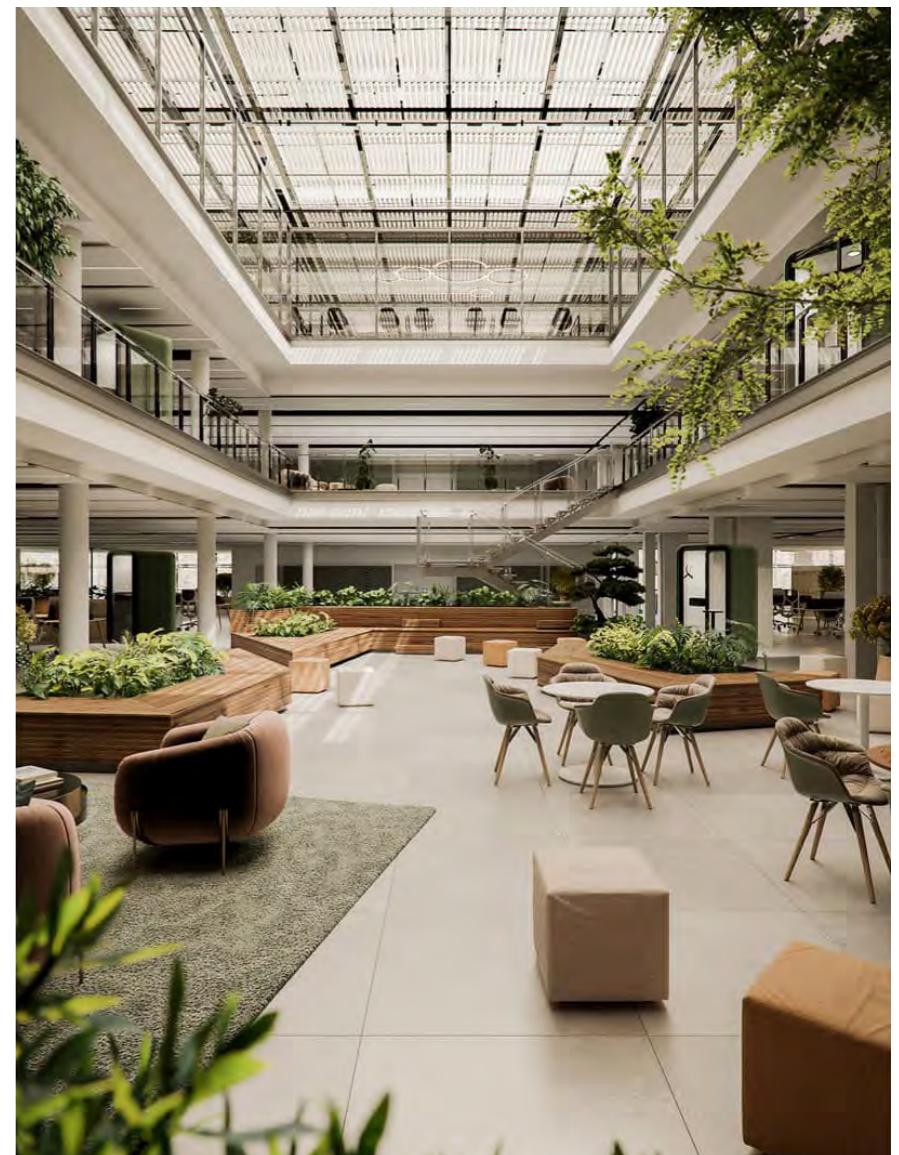
- Ing. Mauro Savoldelli
- Ing. Valter Carni

Regulatory framework

Building renovation and expansion

Relevant Aspects

- Elevation of existing building
- Seismic retrofit of existing building for university use
- Renovation of underground spaces
- New outdoor areas



Pirelli 35

A new urban gateway



Location

Via Pirelli 35, Milan

Year

- Design: March 2020 – May 2021

Client

COIMA SGR

Area

Offices / Commercial

Activities

- Preliminary, developed and detailed structural design
- Preliminary, developed and detailed geotechnical design
- Assistance to construction supervision "DL"

Project cost

70.000.000,00 € (est.)

Structure cost

12.000.000,00 € (est.)

Size

- GFA: 26.500 sqm
- GBA: 56.000 sqm

Certifications obtained

LEED Platinum and WELL

Lead engineers

- Ing. Bruno Finzi
- Ing. Mauro Savoldelli

Regulatory framework

Seismic retrofit and new construction

Prefabrication

All the metal carpentry structures of the bridge building

Sustainability

The "bridge" building has structure made of steel, a 100% recyclable material



BIM 45

Activity

Integrated team, documents and procedures coordinating BIM activities (for ex. BEP, clash detection, etc.). 3D modeling of structures. Extraction of documents from model.

Division

Structural design

Design phase

- Preliminary design
- Developed design
- Detailed design

Software

Revit
Trimble Connect

Lead engineers

- Technical manager: Ing. M. Savoldelli
- Ingegnere geotecnico: Ing. B. Becci
- BIM Coordinator: Ing. L. Cattaneo

The Quad

Complexity and harmony



Location

Mriehel, Malta

Year

- Design: March 2015 - August 2019
- Assistance to structural construction supervision "DL": January 2019 - March 2022

Client

De Micoli & Associates

Area

Offices / Commercial

Activities

- Preliminary, developed and detailed structural design
- Preliminary, developed and detailed geotechnical design
- Assistance to structural construction supervision "DL"

Project cost

€ 95.000.000,00 (est.)

Structure cost

€ 23.500.000,00

Size

- GFA: 42.000 sqm
- Basement: 47.500 sqm of GBA - Towers: 53.097 sqm of GBA

Certifications obtained

LEED Platinum

Lead engineers

- Ing. Bruno Finzi
- Ing. Gianluca Pittelli
- Ing. Davide Emmanuello

Regulatory framework

New construction

Prefabrication

All basement floors, floors in predalles slabs and completion casting, as well as prefabricated prestressed beams.

The bridges have metal carpentry structure

Sustainability

The connecting bridges between the towers are made of steel



BIM 45

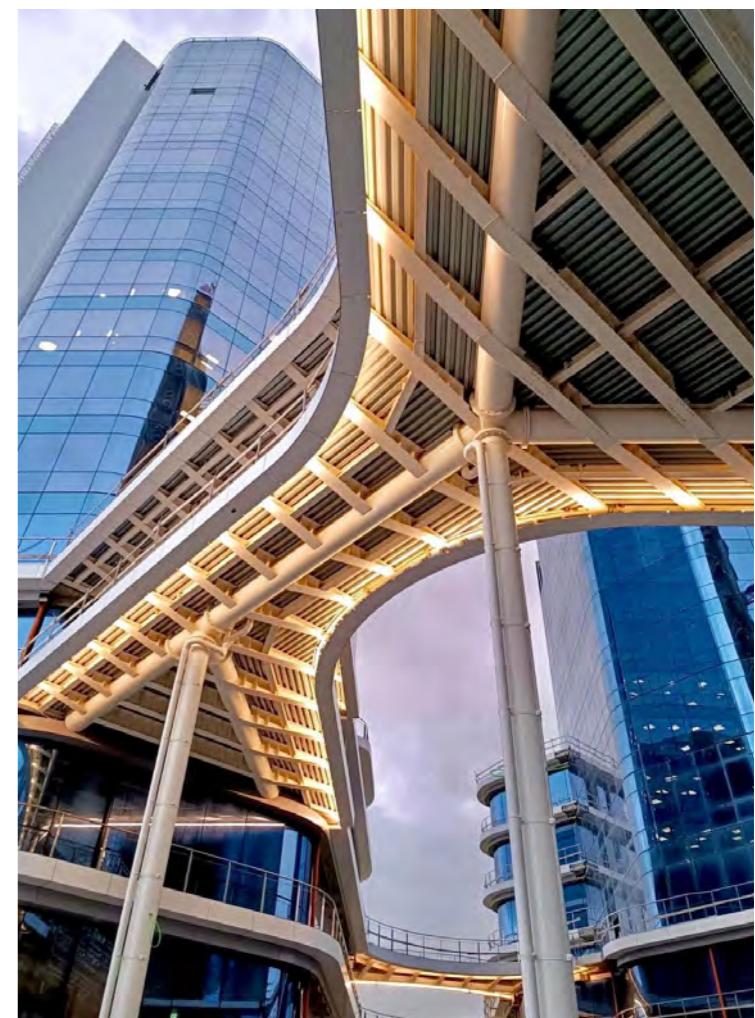
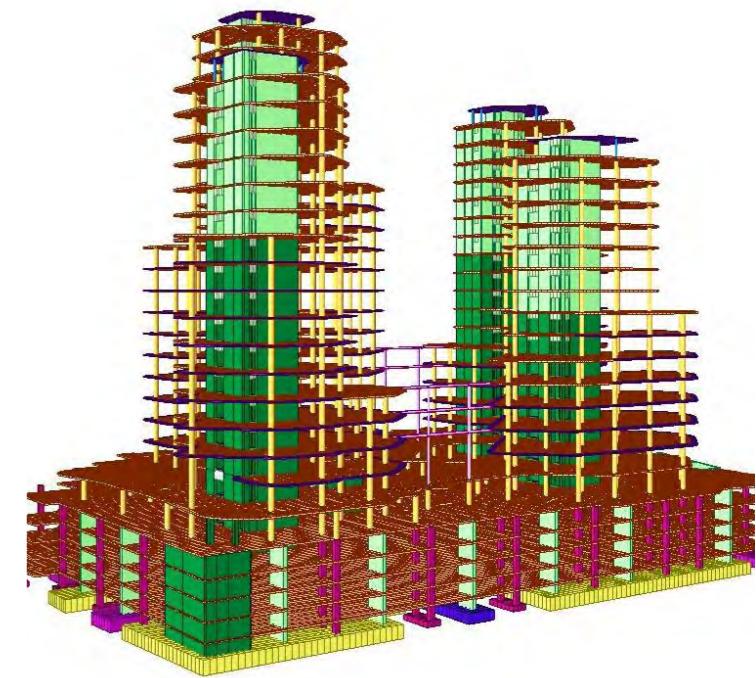
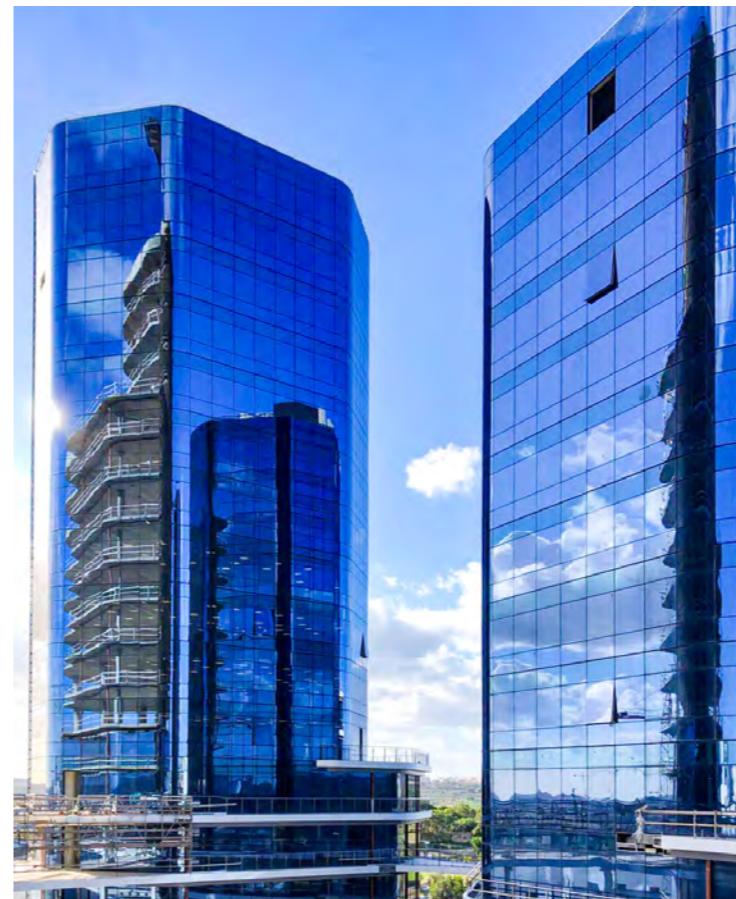
Activity
3D modeling of structures.
Extraction of documents from model.
BIM process NOT coordinated with other specialists.

Division
Structural design

Design phase
- Preliminary design
- Developed design
- Detailed design

Software
Tekla

Lead engineers
- Technical manager: Ing. B. Finzi
- Senior engineer: Ing. G. Pittelli



Corso Como Place

Between tradition and change



Location

Via Bonnet 10, Milan

Year

- Design: March 2017 – March 2019
- Execution: June 2018 – December 2020

Client

COIMA SGR

Area

Offices / Commercial

Activities

- Preliminary, developed and detailed structural design
- Preliminary, developed and detailed geotechnical design
- Assistance to construction supervision "DL"

Project cost

45.000.000,00 € (est.)

Structure cost

8.000.000,00 € (est.)

Size

- GFA: 13.000 sqm
- GBA: 52.000 sqm

Certifications obtained

LEED Gold e WELL

Lead engineers

- Ing. Bruno Finzi
- Ing. Giovanni Canetta
- Ing. Mauro Savoldelli

Regulatory framework

Seismic retrofit

Prefabrication

All steel and wood structures

Sustainability

Steel because of its reuse potential. Wood used for the floors of the building of body C because of its positive contribution in terms of carbon footprint



BIM 45

Activity

3D modeling of structures. Integrated team, documents and procedures coordinating BIM activities (for ex. BEP, clash detection, etc..)

Division

Structural design

Design phase

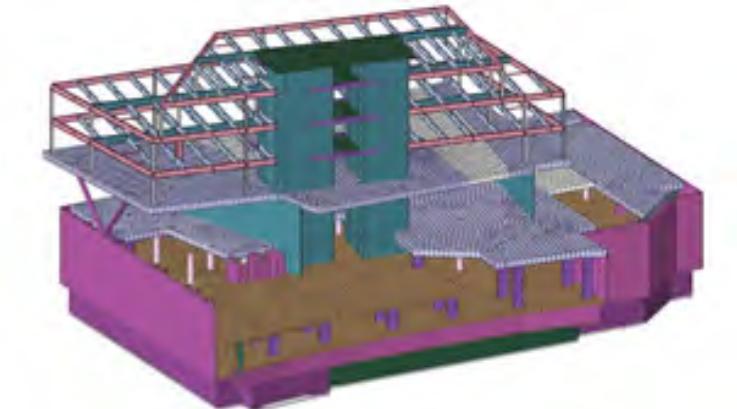
- Detailed design

Software

Revit

Lead engineers

- Technical manager: Ing. B. Finzi
- BIM Coordinator: Ing. L. Cattaneo





Corso Como Place, Milano.

Hennebique

Silos redevelopment

Location

Genova

Year

- Design: 2020 - ongoing

Client

Starching srl

Area

Commercial / Hospitality

Activities

- Preliminary, developed and detailed structural design
- Preliminary and detailed geotechnical design

Project cost

60.000.000,00 €

Structure cost

21.899.000,00 €

Size

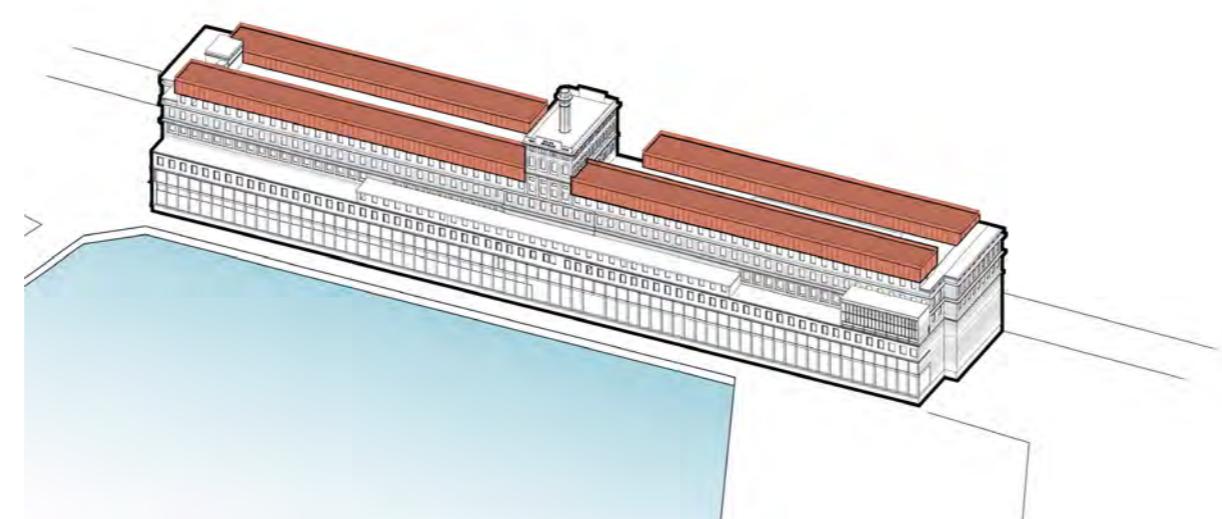
- GBA: 46.844 sqm
- 6 floors above ground, 1 floor below ground
- Height: 40 m

Lead engineers

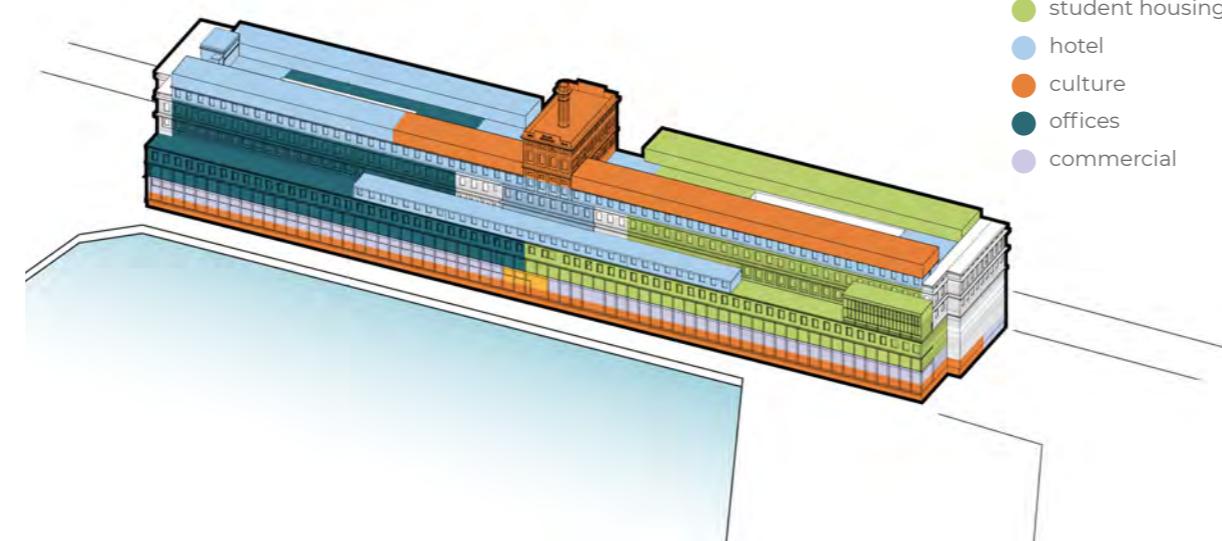
- Ing. Mauro Savoldelli
- Ing. Giovanni Canetta
- Ing. Raimondo Salaris

Regulatory framework

Intervention on existing building



the new volumes



area

- student housing
- hotel
- culture
- offices
- commercial



Cavallotti Verziere

Volumes remodeling



Location

Via Cavallotti 14, Milan

Year

- Design: December 2018 – June 2019
- Structural construction supervision "DL": July 2019 – March 2021

Client

Krylos SGR SpA

Area

Commercial / Offices

Activities

- Preliminary, developed and detailed structural design
- Structural construction supervision "DL"

Project cost

10.600.000,00 €

Structure cost

2.900.000,00 €

Size

- GFA: 5.360 sqm
- GBA: 12.900 sqm
- Volume (underground + above ground): 41.906 sqm
- N. 9 floors above ground - N. 3 underground floors

Certifications obtained

Cat. A and LEED Gold

Lead engineers

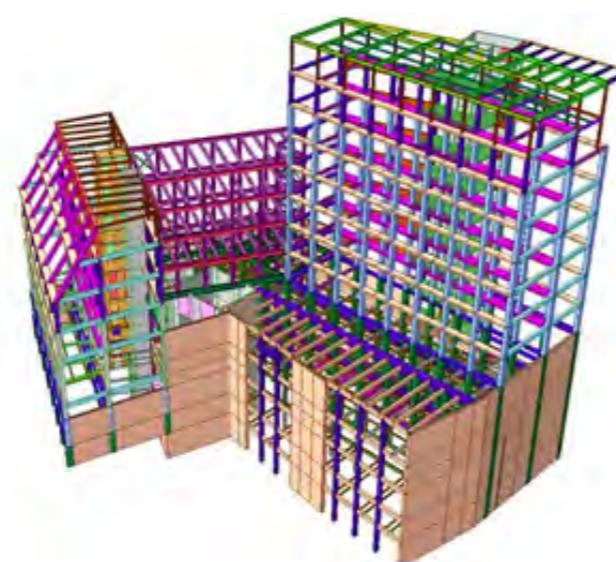
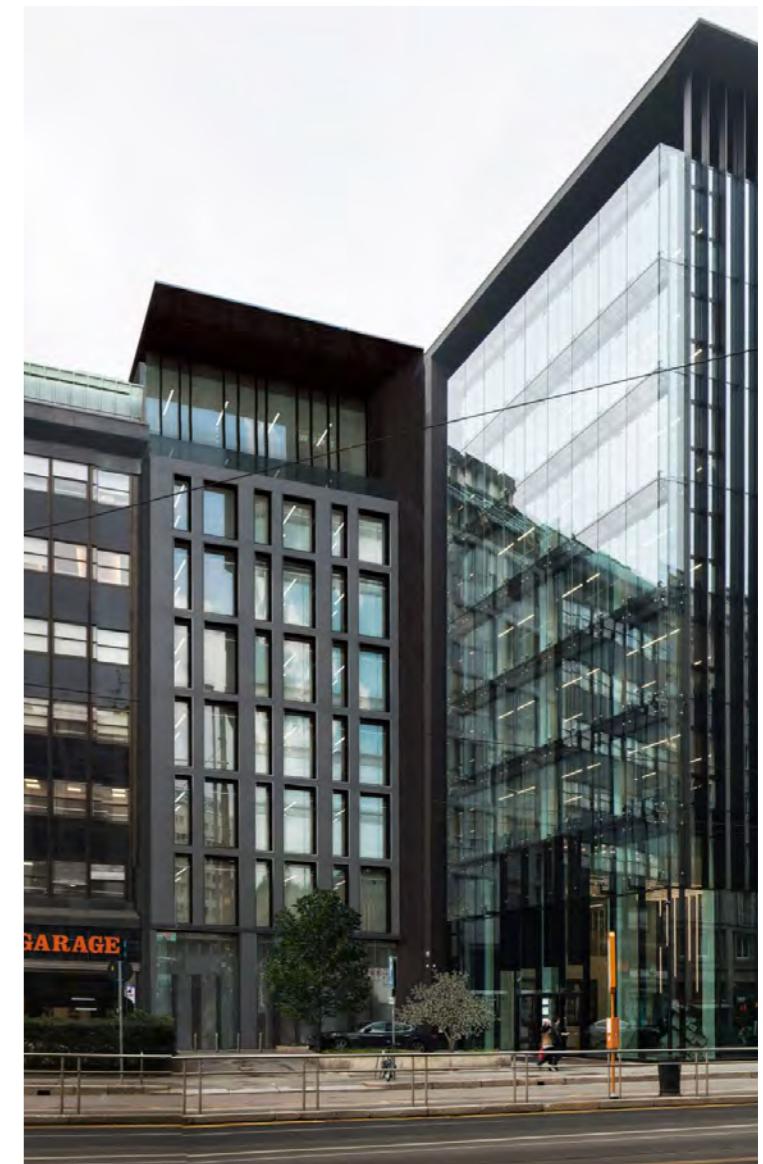
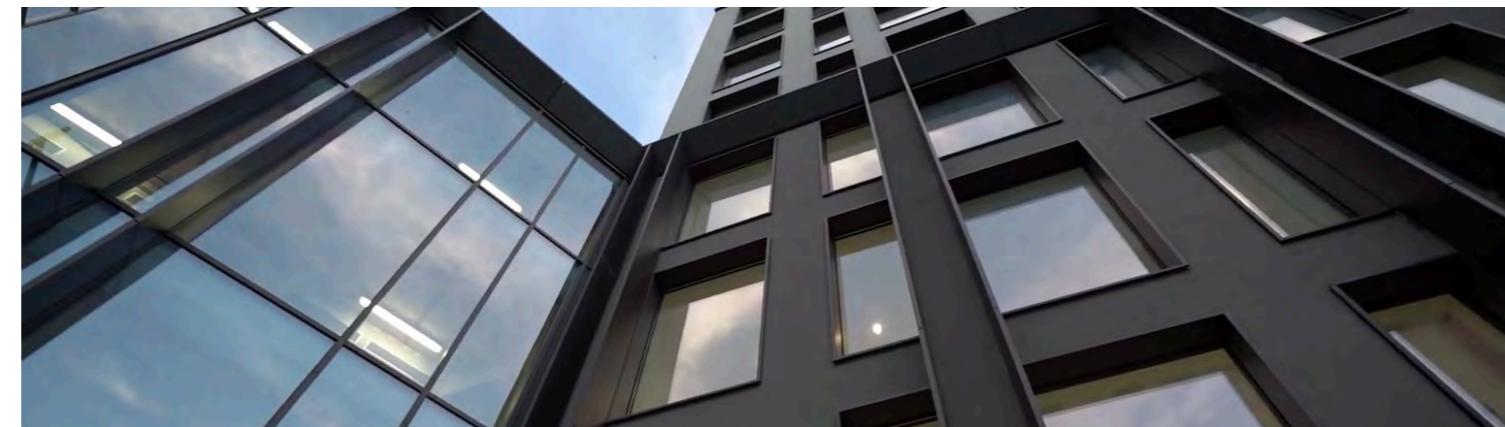
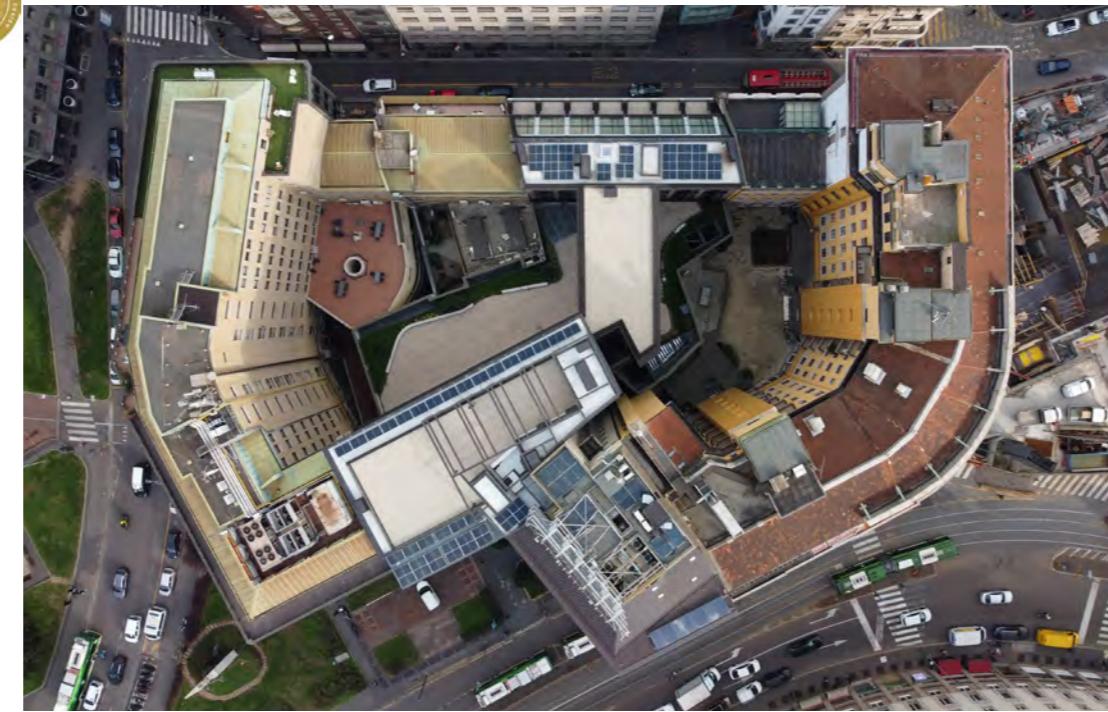
- Ing. Bruno Finzi
- Ing. Gianluca Pittelli

Regulatory framework

- Local intervention (building on Verziere street)
- Seismic retrofit (building on Cavallotti street)
- New construction (new "bridge" building)

Prefabrication

Structure of the new building in laminated wood and X-Lam panels. Structural components in metal carpentry





Veneto 89

Neoclassical modernity

Location

Via Vittorio Veneto 89, Rome

Year

- Design: 2019 – February 2021
- Structural Construction supervision "DL": June 2023

Client

Prelios SGR

Area

Offices / Commercial

Activities

- Preliminary, developed and detailed structural design
- Structural construction supervision "DL"

Project cost

29.000.000,00 €

Structure cost

5.500.000,00 €

Size

- GBA: 27.000 sqm

Certifications obtained

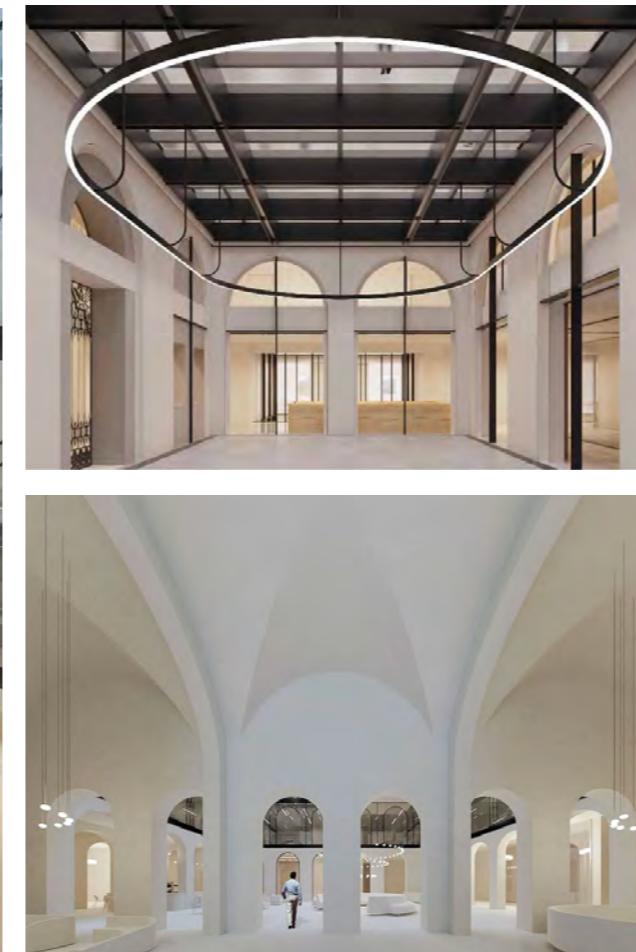
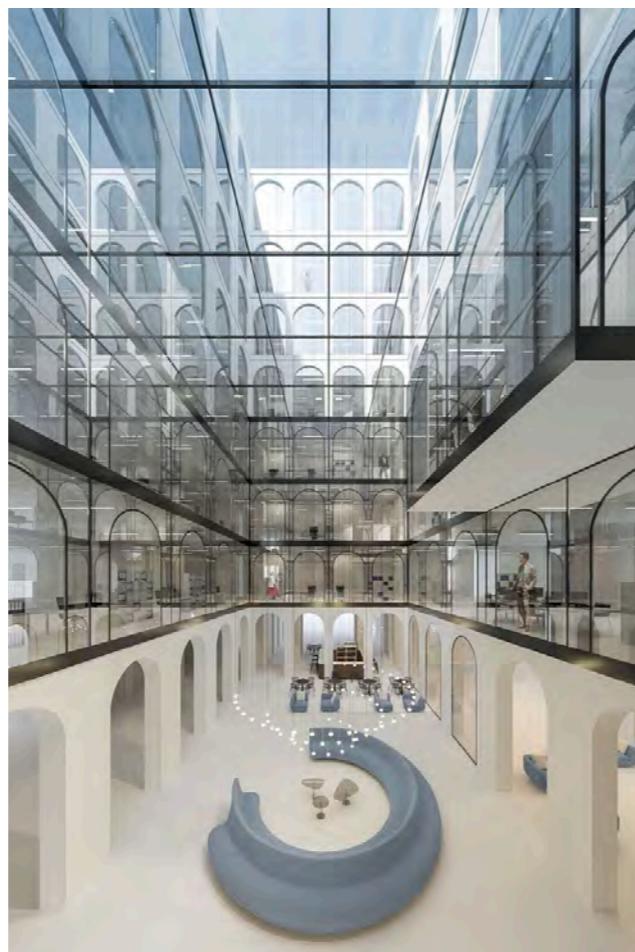
Cat. A and LEED Gold

Lead engineers

- Ing. Bruno Finzi
- Ing. Mauro Savoldelli

Regulatory framework

Seismic retrofit



**BIM
45**

Activity

Creation of a 3D model from the developed design phase according to BIM procedures (for ex. BEP, clash detection, etc..).

Division

Structural design

Design phase

- Preliminary design, developed design
- Detailed design

Software

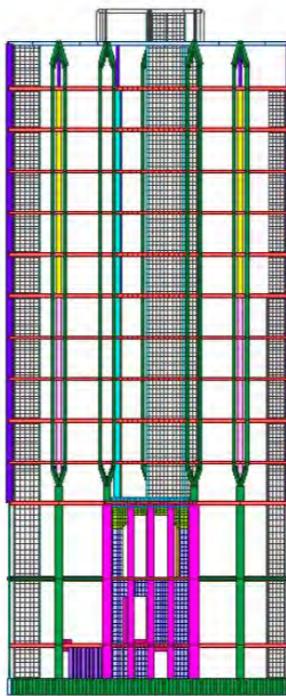
Revit, Navisworks

Lead engineers

- Technical manager: Ing. M.Savoldelli
- Geotechnical engineer: Ing. B. Becci
- Senior engineer: H. Madioum

The Liberty Tower

Gentle restyling



Location

Piazza Liberty, Milan

Year

- Design: 2017 - 2020

Client

Savills IM SGR

Area

Commercial / Offices

Activities

- Preliminary, developed and detailed structural design
- Preliminary, developed and detailed geotechnical design
- Structural construction supervision "DL"

Project cost

13.000.000,00 € (est.)

Structure cost

2.000.000,00 € (est.)

Size

- GFA: 5.990 sqm

Certifications obtained

Cat. A, Leed Gold

Lead engineers

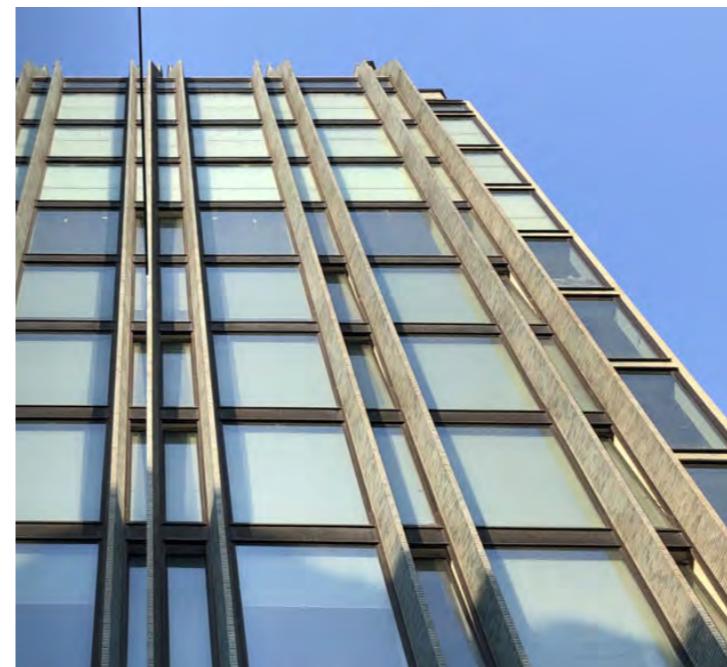
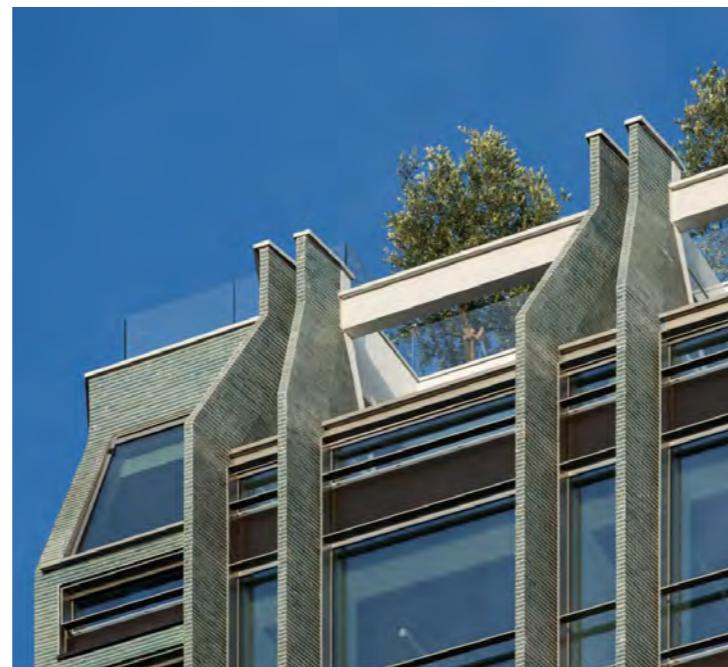
- Ing. Bruno Finzi
- Ing. Mauro Savoldelli
- Ing. Davide Emmanuello

Regulatory framework

Seismic retrofit

Relevant aspects

- Functional redevelopment and internal layout updating of the historic Torre Tirrena built in 1957
- Structural enhancement of the paired pillars of the facade: project based on emphasizing the distinctive features of the original design



Le Cucine di Curno

A new Food-Hall in Bergamo

Location

Curno, Bergamo

Year

2018 - 2019

Client

Eurocommercial Properties Italia Srl

Cliente

Impresa Percassi Spa

Area

Commercial / Retail

Activities

- Detailed structural design + construction documents
- Detailed architectural design
- Construction documents design coordination

Project cost

12.370.687,95 €

Structure cost

4.335.997,14 €

Size

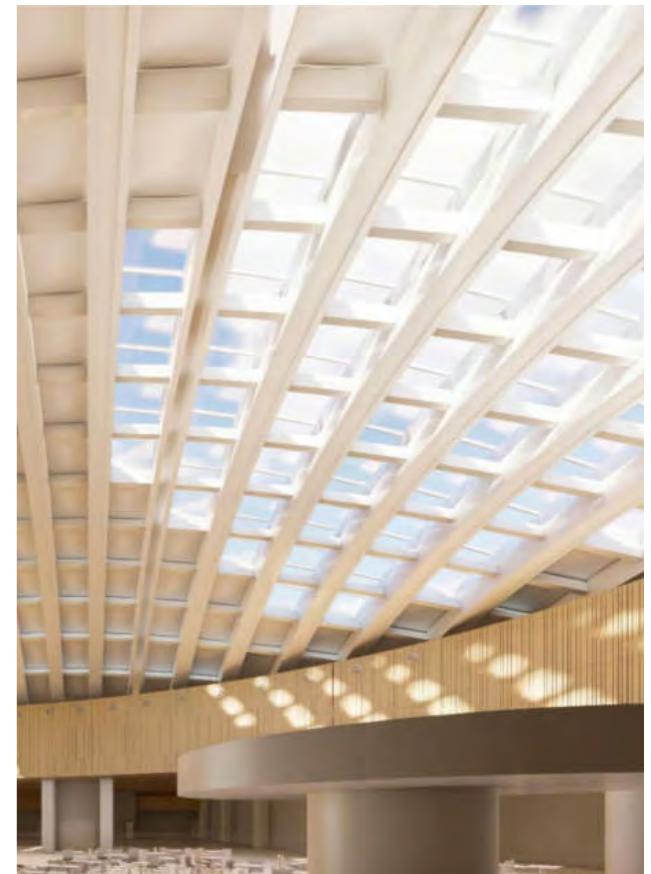
- Surface: 5.400 sqm
- Dome height: 17 m
- 600 seats and 17 tenant

Lead engineers

- Ing. Mauro Savoldelli

Relevant aspects

- The project obtained the "very good" level certification according to the BREEAM eco-sustainable building assessment protocol
- Finishes and details of a high aesthetic level
- Use of quality materials and precise definition of details in agreement with the Artistic Direction





Starbucks

The American giant in Milan

Location

Ex Palazzo delle Poste, Piazza Cordusio, Milan

Year

- Design: September 2015 – August 2016
- Structural construction supervision "DL": October 2016 – January 2018

Client

Asti Architetti s.r.l.

Area

Offices / Commercial

Activities

- Executive structural design
- Structural construction supervision "DL"

Project cost

10.500.000,00 €

Structure cost

1.500.000,00 €

Size

- GFAP: 13.700 sqm
- 300 sqm surface of the new star skylight

Certifications obtained

LEED Gold

Lead engineers

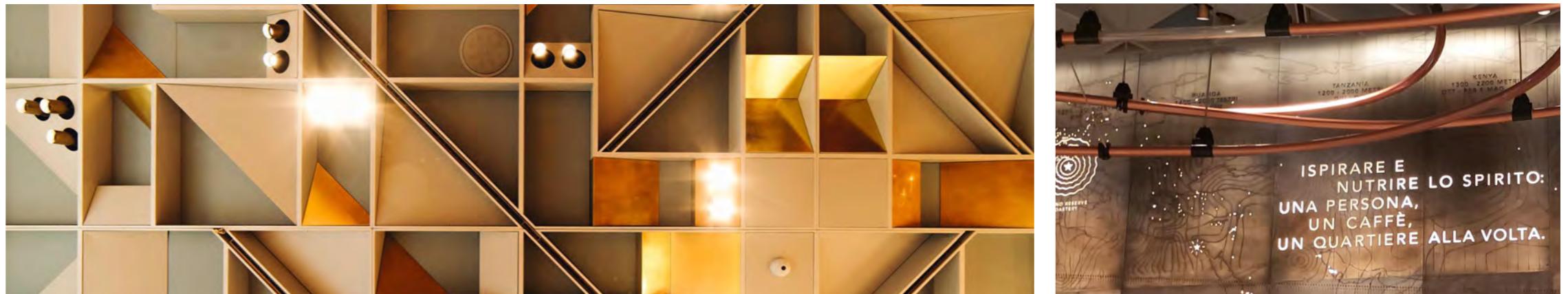
- Ing. Valter Carni
- Ing. Hicham Madioum

Regulatory framework

Conservative rehabilitation

Sustainability

Steel was used for all 6 floors above ground on the Armorari street side, for the mezzanine floor of Starbucks and for the support of the skylight



Eataly Milan

The Smeraldo theater is reborn

Location

Ex Teatro Smeraldo, XXV Aprile square, Milan

Year

- Design: 2012 – 2013
- DL: 2012 – 2014

Client

Eataly Real Estate Srl

Area

Commercial

Activities

- Structural Design
- Structural construction supervision "DL"
- Safety coordination in the design phase and construction

Project cost

17.000.000,00 €

Structure cost

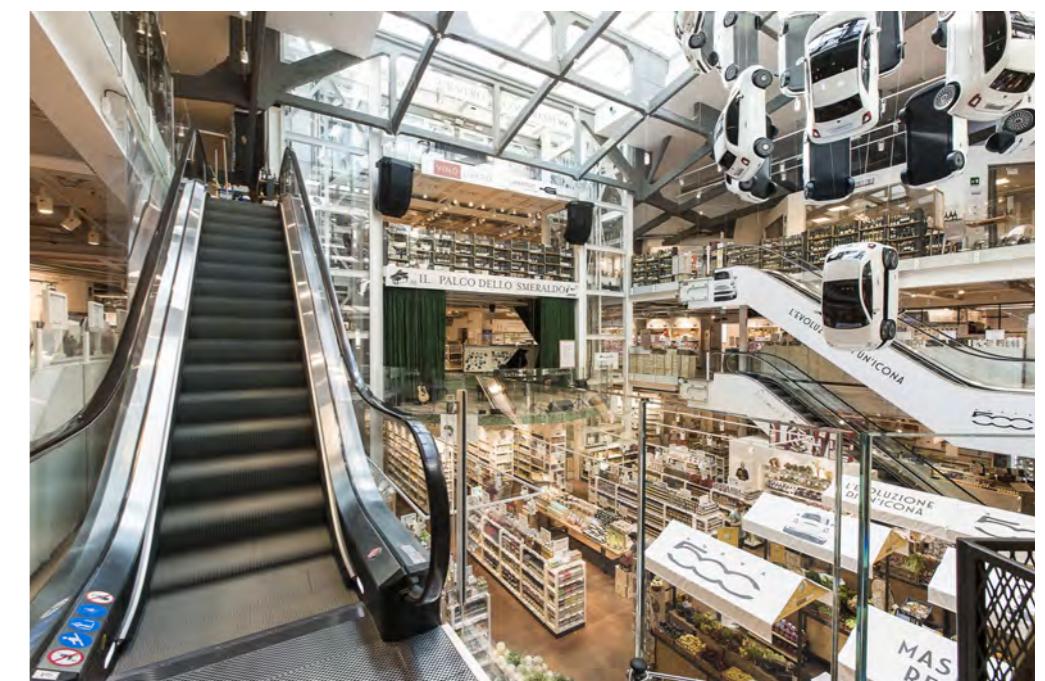
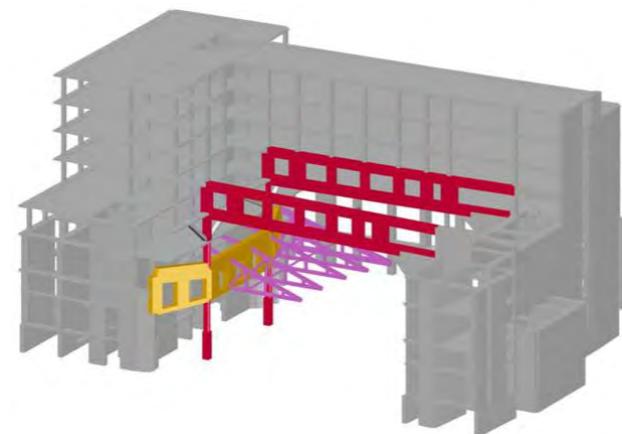
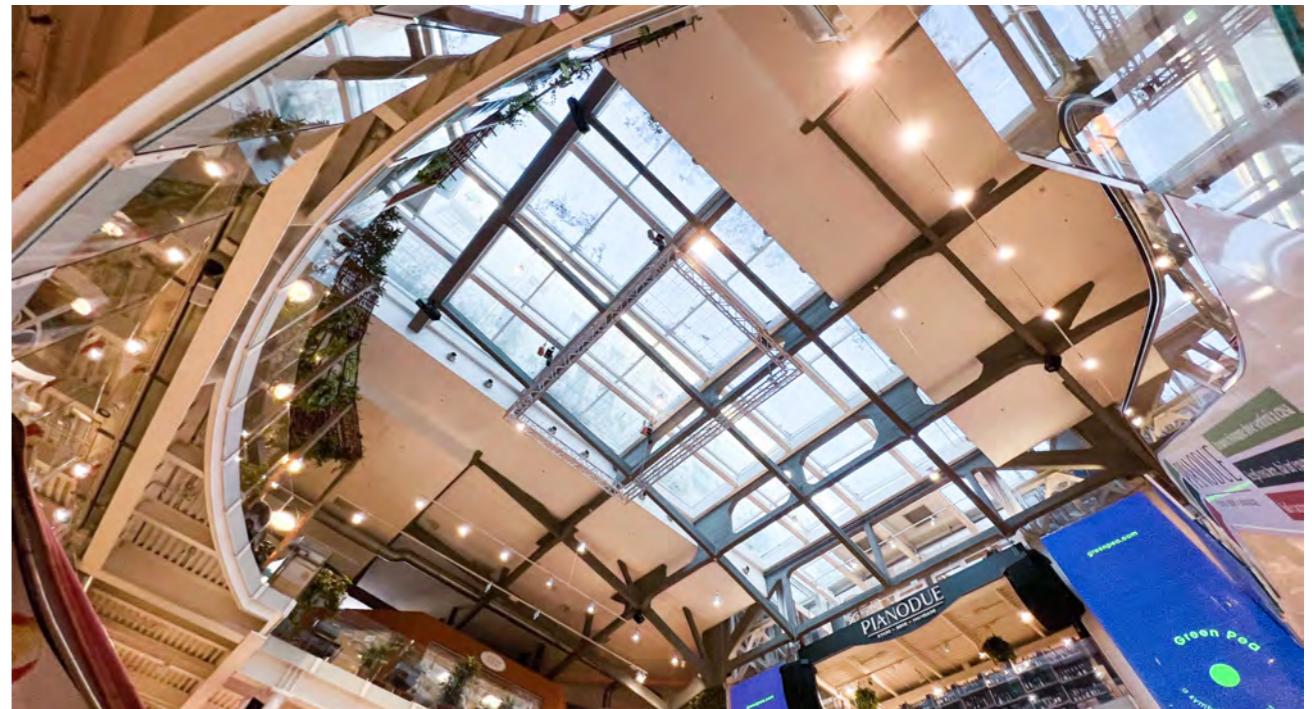
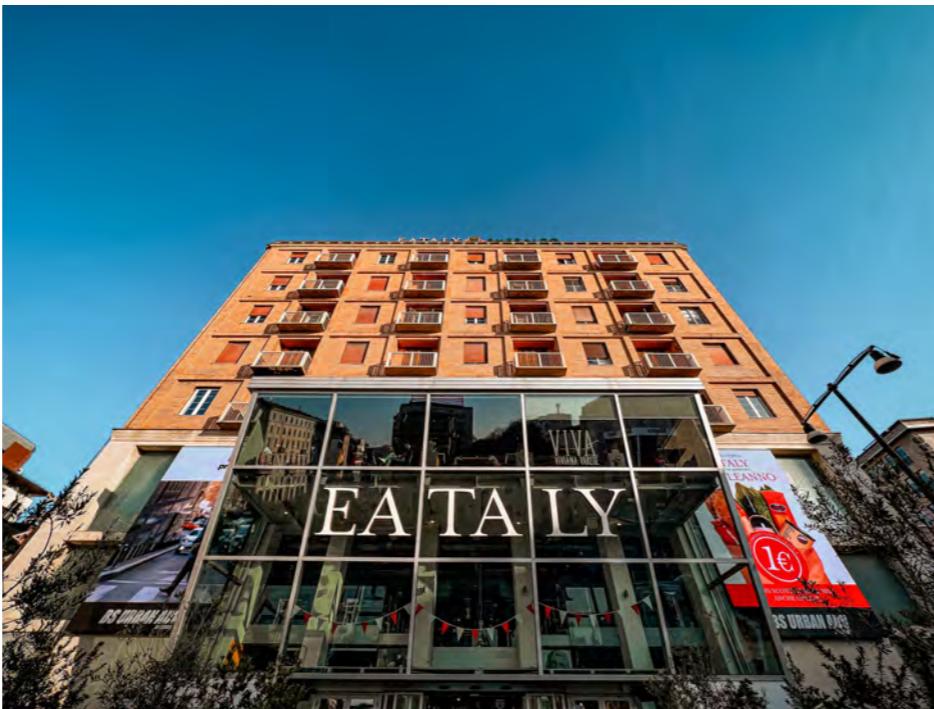
4.782.000,00 €

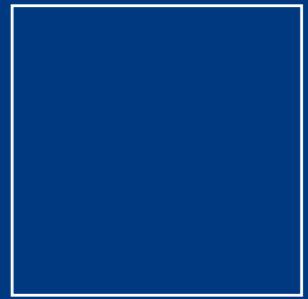
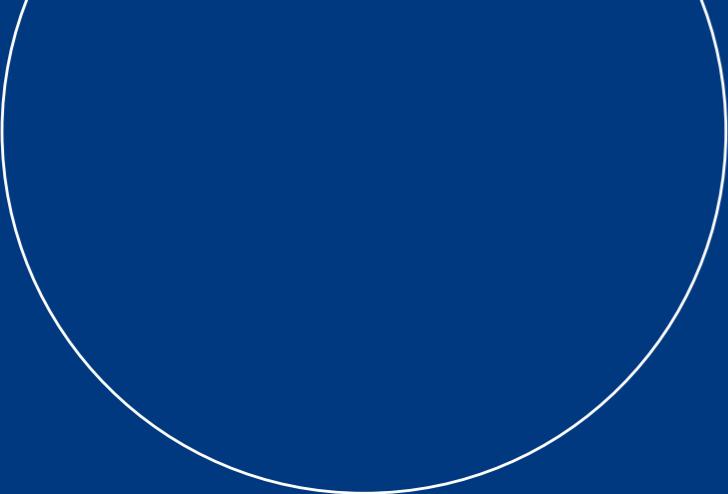
Size

- Surface: 3.500 sqm
- 3 floors above ground

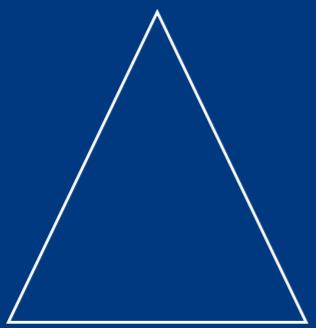
Lead engineers

- Ing. Bruno Finzi
- Ing. Mauro Savoldelli





Residential



VivaCertosa BIM 45

Energy of rebirth

Location

Viale Certosa 165-177, Milan

Year

- Design: April 2022 – July 2023

Client

Green Stone SICAF SpA

Area

Residential

Activities

- Project, construction supervision, and Safety Coordination for strip-out and demolition works
- Preliminary, developed and detailed structural design
- Preliminary, developed and detailed geotechnical design
- Construction supervision for temporary excavation containment structures
- Structural construction supervision "DL"
- Safety design and inspection coordination

Project Cost

28.000.000,00 €

Structure Cost

6.000.000,00 €

Size

- GFA 25.850 sqm
- 1 building with 6 above-ground floors and 2 internal towers with 12 above-ground floors
- 1 underground floor - 140 parking spaces

Lead engineers

- Ing. Mauro Savoldelli
- Ing. Giovanni Canetta
- Ing. Hicham Madioum

Regulatory framework

New construction

Relevant aspects

- Aim of requalifying the area at an urban and landscape level in a neighborhood negatively affected and depleted over time



Parco Adriano BIM 45

Modern day babylon

Location

Quartiere Adriano, Milan

Year

- Design: September 2021 – February 2023

Client

General Planning Srl

Area

Residential

Activities

- Preliminary, developed and detailed structural design
- Preliminary, developed and detailed geotechnical design

Project Cost

110.000.000,00 € (est.)

Structure Cost

25.000.000,00 €

Size

- GFA 30.500 sqm
- 21 above-ground floors for the tallest building
- 3 underground floors
- Maximum height: around 77 m

Lead engineers

- Ing. Gianluca Pittelli
- Ing. Andrea Colombo
- Ing. Alice Mingolla

Regulatory framework

New construction

Relevant aspects

Residential complex characterized by four tower buildings, with varying heights, up to 77 m above ground.

The facades have structural steel frames with a decorative function. The project also required columnar treatment of the ground using jet-grouting for the implementation of settlement-reducing piles, given the presence of contiguous portions with very different heights.



Syre

San Siro is redesigned

Location

San Siro, Milan

Year

- Design: January 2020 – ongoing

Client

Redbrick Advisors S.r.l. for

Axa Real Estate Investment Managers SGP

Area

Residential

Activities

- Preliminary, developed and detailed structural design
- Preliminary, developed and detailed geotechnical design

Project cost

60.000.000,00 € (est.)

Structure cost

8.500.000,00 €

Size

- GFA: 22.536 sqm
- GBA: 62.672 sqm

Lead engineers

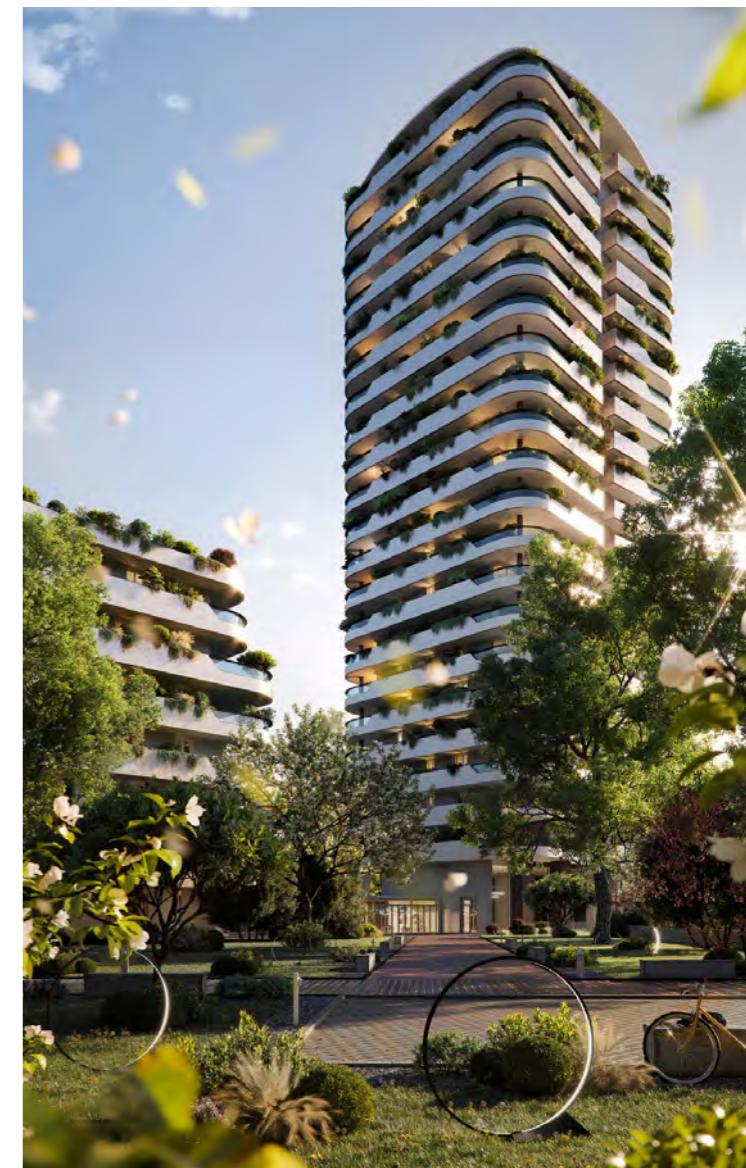
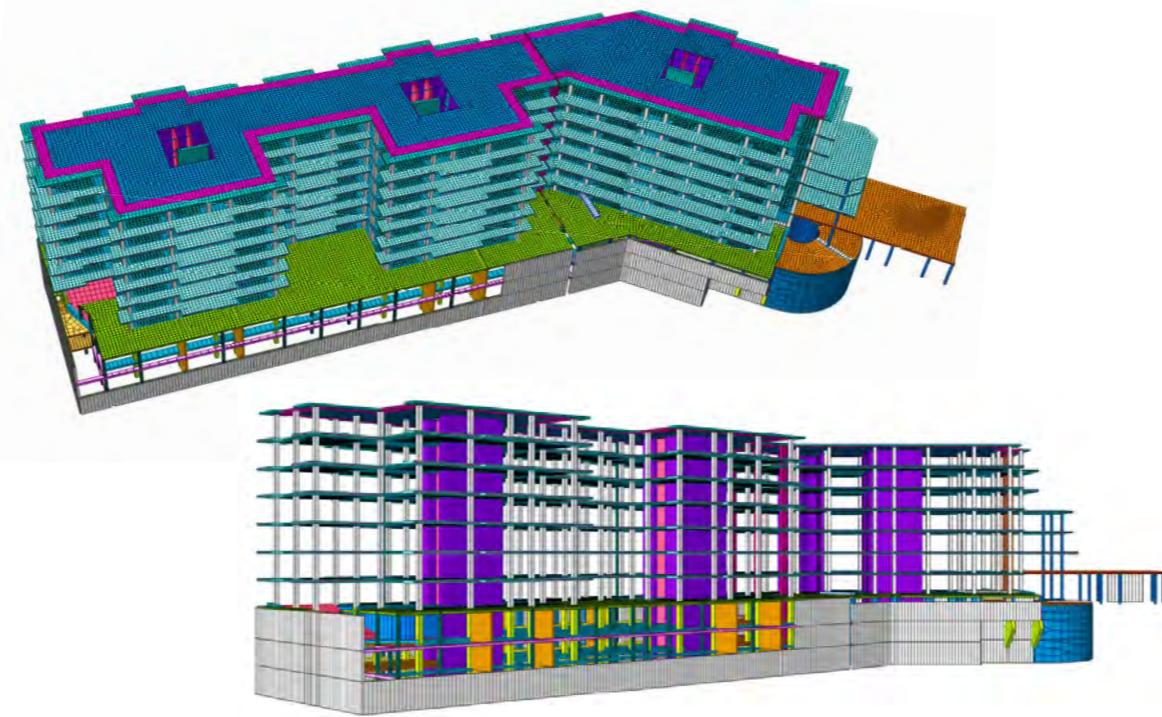
- Ing. Gianluca Pittelli
- Ing. Bruno Finzi

Regulatory framework

New construction

Prefabrication

Underground floors made with Predalles type slabs



Scalo Greco Breda

Reinventing Cities

Location

Scalo Greco Breda, Milan

Year

- Design: 2021 – ongoing

Client

REDO SGR S.p.A.

Area

Residential / Social housing

Activities

- Structural and geotechnical design
(at the moment until the Preliminary phase)

Project cost

45.000.000,00 € (est.)

Structure cost

9.000.000,00 € (est.)

Size

- GFA: 24.000 sqm
- GBA: 40.000 sqm

Lead engineers

- Ing. Mauro Savoldelli

Regulatory framework

New construction

Prefabrication

Wooden floors

Sustainability

Project with Zero Carbon goal



**BIM
45**

Activity

Integrated team, documents and procedures coordinating BIM activities (for ex. BEP, clash detection, etc..). 3D modeling of structures. Extraction of the drawings from the model.

Division

Structural design

Design phase

- Preliminary design

Software

Revit, Trimble Connect

Lead engineers

- BIM Coordinator: Ing. L. Cattaneo



Principe

A cutting-edge project

Location

Via Principe Eugenio 3, 5, 7, Milan

Year

- Design: December 2018 – December 2019

Client

DEA CAPITAL REAL ESTATE SGR S.p.A.

Area

Residential

Activities

- Preliminary, developed and detailed structural design
- Preliminary, developed and detailed geotechnical design

Project cost

37.400.000,00 €

Structure cost

8.600.000,00 €

Size

- GFA: 18.390 sqm
- GBA: 37.000 sqm approx.
- Volume (underground + above ground): 130.000 mc
- N. 3 underground floors
- N. 11 floors above ground

Lead engineers

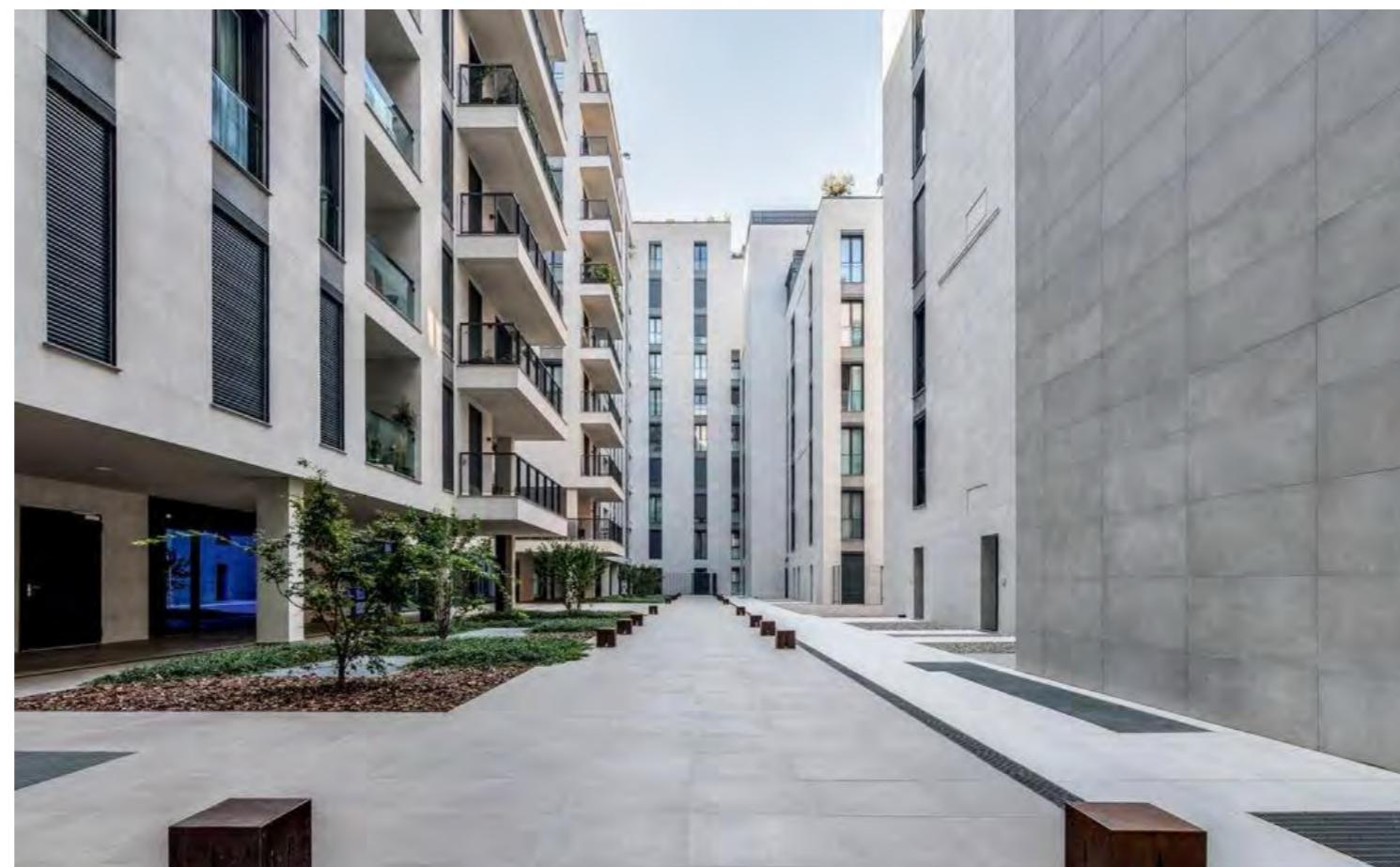
- Ing. Bruno Finzi
- Ing. Gianluca Pittelli

Regulatory framework

New construction

Relevant aspects

One of the design challenges was to adapt the structures to pre-existing excavation volumes, previously created for a different project, without further interventions or modifications



**BIM
45**

Activity

3D modeling of structures and geotechnical works.
Extraction of documents from model.

Division

Structural design

Design phase

- Preliminary design
- Developed design
- Detailed design

Software

Revit

Lead engineers

- Technical manager: Ing. G. Pittelli
- BIM Coordinator: Ing. L. Cattaneo

Durazzo 2/4 BIM 45

New air in the Feltre district

Location

via Durazzo 2/4, Milan

Year

- 2020 - ongoing

Client

Investire SGR S.p.A.

Area

Residential

Activities

- Due diligence
- Integrated design definitiva ed esecutiva (architettonica, structural, plants)
- Structural and general construction supervision "DL"

Project cost

13.600.000,00 € (est.)

Structure cost

2.900.000,00 € (est.)

Size

- GFA: 3.832 sqm

Lead engineers

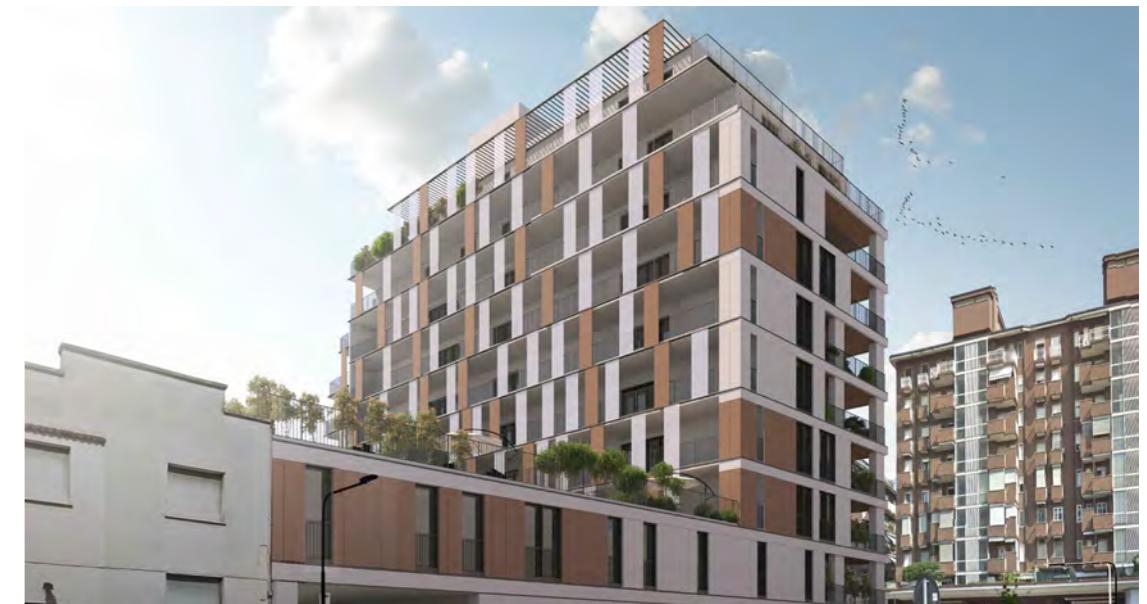
- Ing. Pietro Gusella
- Arch. Barbara Palazzotto
- Ing. Gianluca Pittelli

Regulatory framework

New construction

Relevant aspects

- New Residential project as an element of redevelopment in an area with no architectural or cultural value, with modification of the current volumetric structure of the block.



Richard 1

A new skyscraper in the city

Location

Milan

Year

- Design: 2022 - ongoing

Client

Savills IM SGR SpA

Area

Residential / Offices

Activities

- Developed and detailed structural design
- Developed and detailed developed design
- Support for architectural developed design
- Detailed architectural design and coordination
- Structural and geotechnical construction supervision "DL"

Project cost

20.000.000 € (est.)

Size

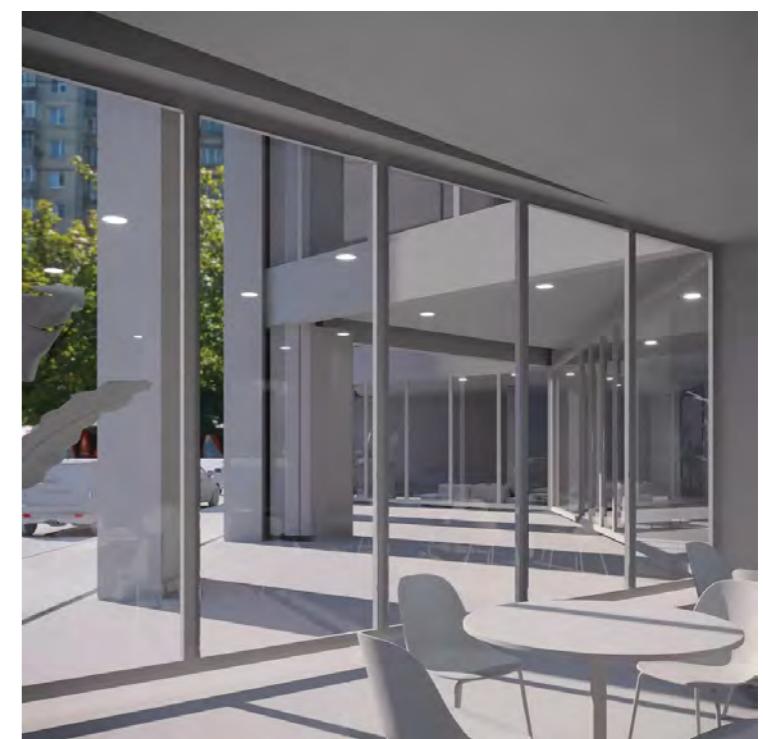
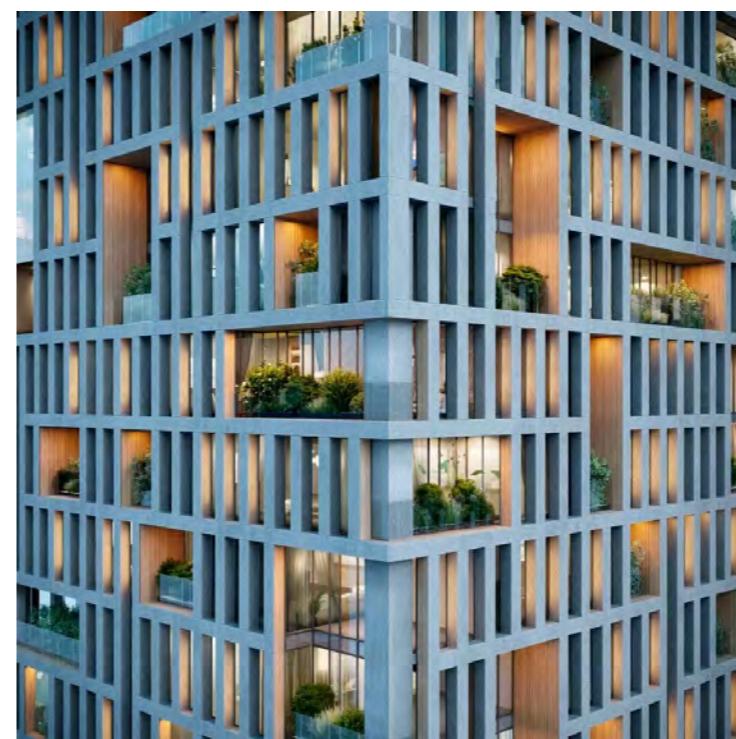
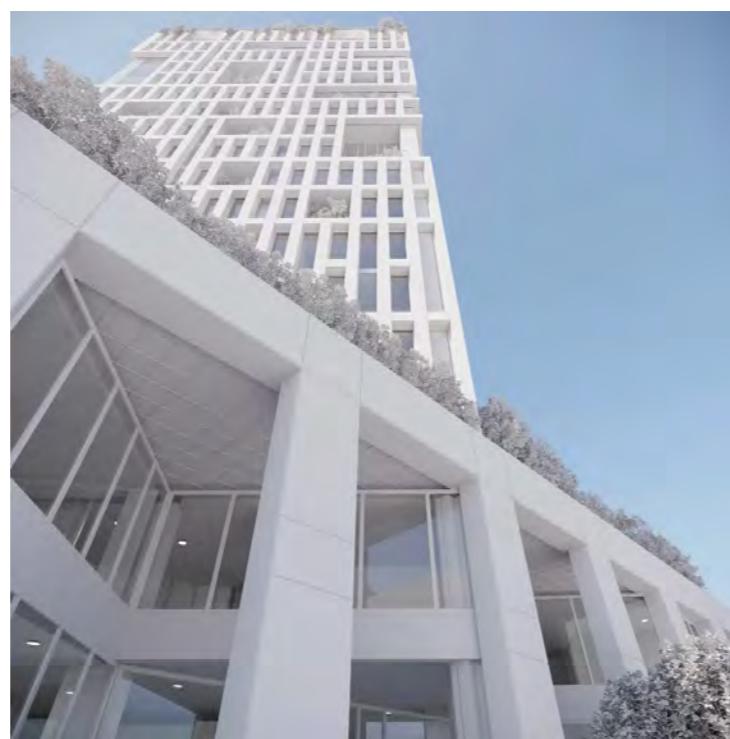
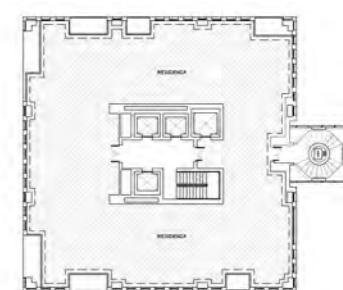
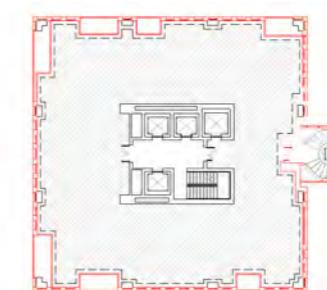
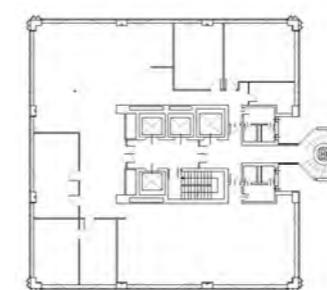
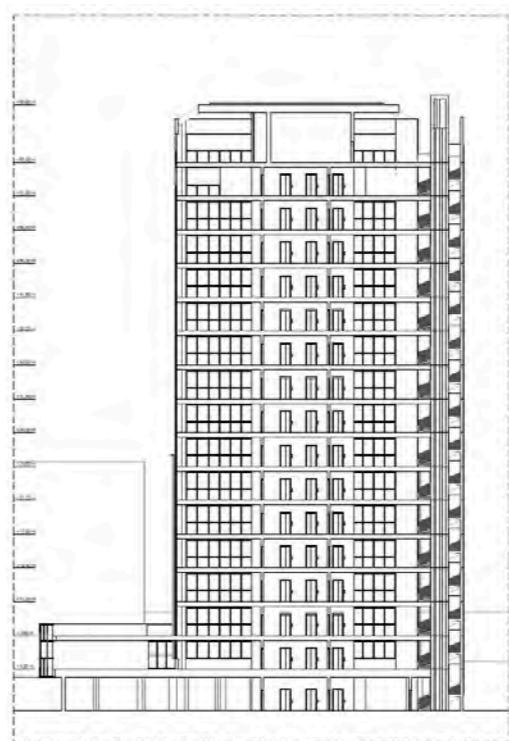
- SL: 7.275 sqm

Lead engineers

- Arch. Michelangelo Siracusa
- Arch. Luciano Miano
- Ing. Davide Emmanuello

Regulatory framework

Building renovation



Dimore Moneta Motta

The charm of yesterday, today

Location

via Orazio - via Caminadella, Milan

Year

2016 - 2021

Developer

Fondo Ca' Granda

Client

Investire SGR

Area

Residential

Activities

- Preliminary, developed and detailed structural design
- Structural construction supervision "DL"

Project Cost

5.050.000,00 €

Structure Cost

760.000,00 €

Size

- 2 buildings
- GFA: 2.200 sqm
- 6 floors above ground - 1 underground floor

Lead engineers

- Ing. Gianluca Pittelli
- Ing. Raimondo Salaris

Regulatory framework

Local interventions

Relevant aspects

- Skillful project of conservative redevelopment that emphasizes architectural details by enhancing decorative elements
- Structural interventions, such as the new metal and wood roofing and the new floor on the 5th level, in full respect of the existing building and its historical/artistic characteristics
- Management of a construction site in the historical center



Trentacoste

Empowering student environment

Location

via Trentacoste, Milan

Year

- 2021 - ongoing

Client

CA Ventures

Client

GLA Genius Loci Architettura Srl

Area

Hospitality

Activities

- Developed and detailed structural design
- Structural construction supervision "DL"

Project cost

25.981.000,00 €

Structure cost

4.497.363,00 €

Size

- GFA: 11.914 sqm
- GBA: 16.320 sqm
- 9 floors above g.; 1 floor below g.
- 32 m of height

Lead engineers

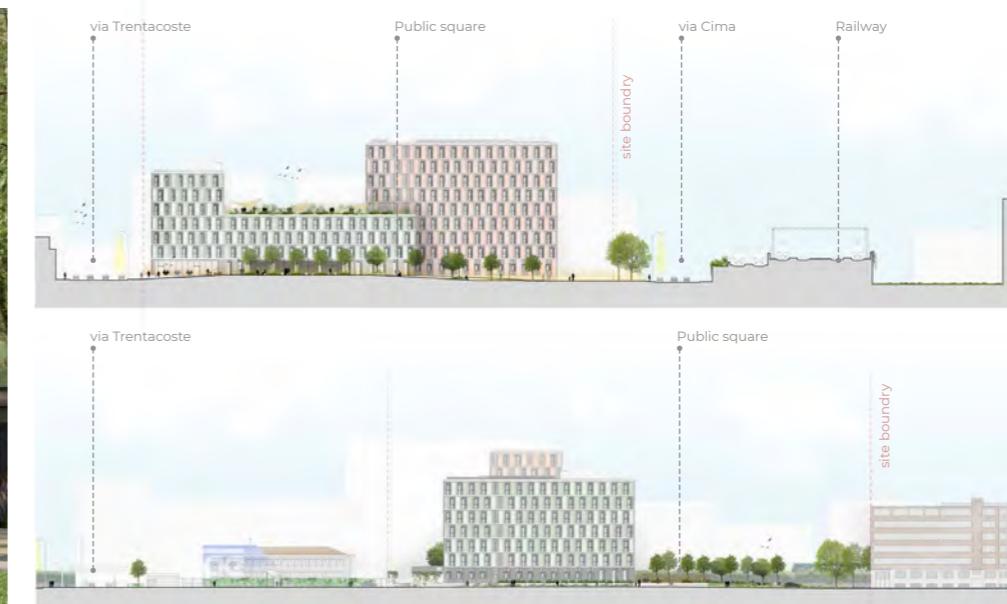
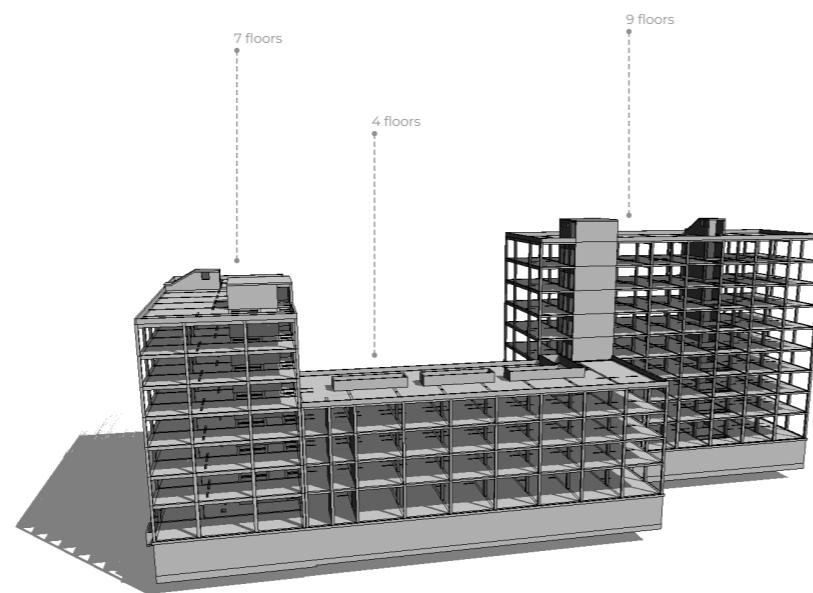
- Ing. Mauro Savoldelli
- Ing. Raimondo Salaris
- Ing. Davide Luraschi

Regulatory framework

New construction

Relevant aspects

- Organic design with the vocation of connection between public and private, with the aim of providing a comfortable and convenient environment for students, but also of promoting social life and a sense of belonging
- Modularity in the design of the housing units, which are divided into spaces of the same size on all floors



538 Students
437 Single rooms
27 Double rooms
9 Apartments for 3 people
5 Apartments for 4 people



Bologna Rimesse

Evolved student housing



Location

Via Rimesse, Bologna

Year

- 2022 - ongoing

Client

CA Ventures

Area

Receptive

Activities

- Preliminary, developed and detailed structural design
- Preliminary, developed and detailed geotechnical design
- Structural construction supervision "DL"

Project Cost

30.300.000,00 € (target)

Structure Cost

8.000.000 € (est.)

Size

GFA: 12.126,83 sqm

GRV: 44.709,44 mc

Lead engineers

- Ing. Mauro Savoldelli
- Ing. Raimondo Salaris

Regulatory framework

New construction

Relevant aspects

- Construction of Ø800 piles to reduce building settlements
- Compliance with constraints imposed by the Italian supervisory authority
- Seismic retrofit of existing buildings to be preserved
- Modularity in the design of residential units, which are organized into same size-spaces on all floors



Savona 105

The elegance of simplicity

Location

Via Savona 105, Milan

Year

2021 - ongoing

Client

Abitare IN

Client

MPartner

Area

Residential / Social Housing

Activities

- Preliminary, developed and detailed structural design
- Preliminary, developed and detailed geotechnical design

Project cost

n/a

Structure cost

13.153.798,88 €

Size

- GFA about 15.000 sqm

Lead engineers

- Ing. Gianluca Pittelli
- Ing. Davide Emmenuello
- Ing. Veronica Minardi

Regulatory framework

New construction

Prefabrication

Underground floors made with Predalles type GFAabs



BIM 45

Activity

3D modeling of structures.
Extraction of documents from model.
Practical authorization presentation with documents and calculations extracted from the model. MEP model present.

Division

Structural design

Design phase

- Preliminary design
- Detailed design
- Construction design

Software

Revit 2021

Lead engineers

- Senior Engineer: Ing. D. Emmenuello
- BIM Coordinator: P.I.E. D. Luraschi

Indipendenza 1

The other face of elegance

Location

Corsso Indipendenza 1, Milan

Year

- Design: 2013 – 2014

Client

H2A Properties s.r.l.

Area

Residential

Activities

- Structural design
- Geotechnical design
- Structural construction supervision "DL"
- Safety inspection coordination

Project cost

n/a

Structure cost

n/a

Size

- GFA: 3.300 sqm
- 67,5 m lenght of the "L" base
- 35,5 m di width of the "L" base
- 20 m maximum height of the building

Lead engineers

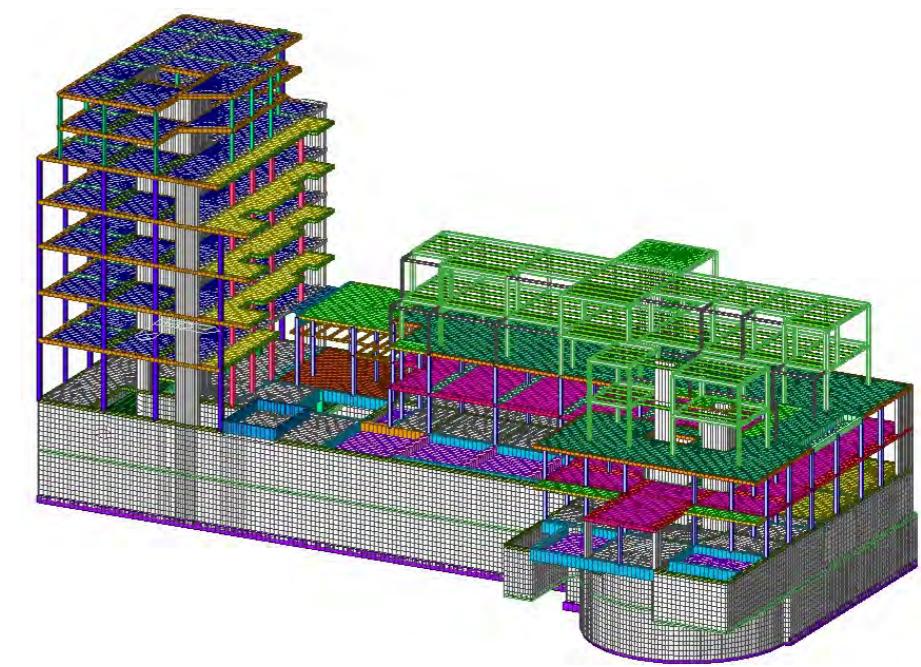
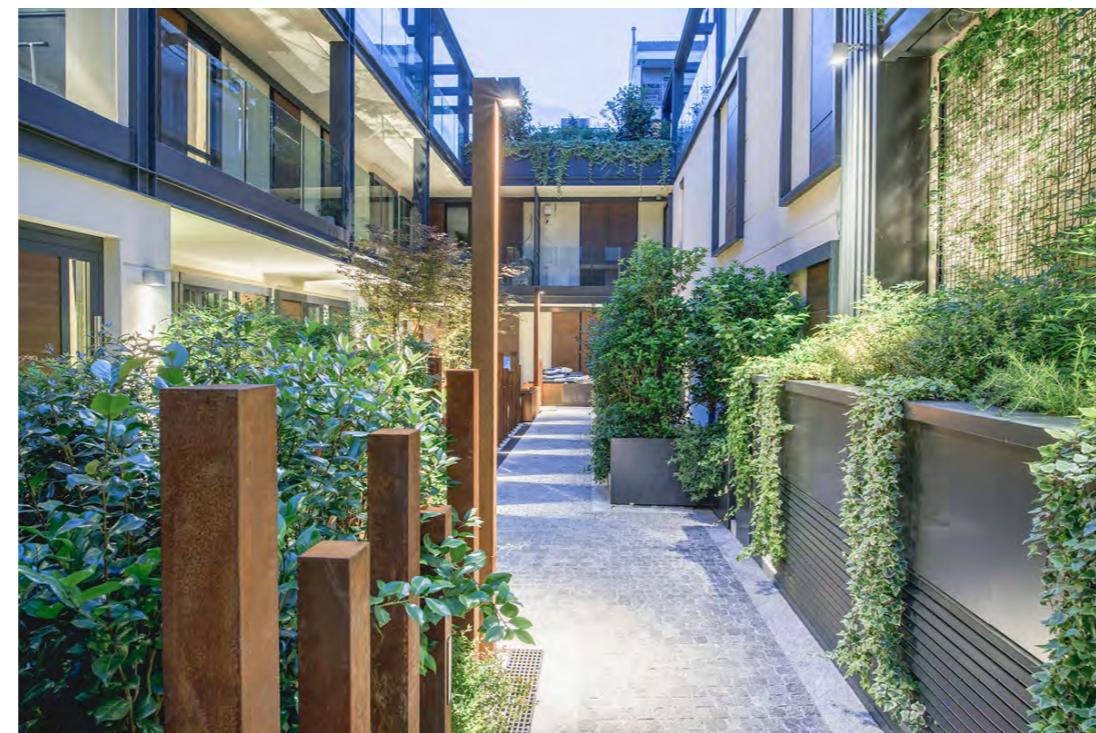
- Ing. Bruno Finzi
- Ing. Mauro Savoldelli

Regulatory framework

New construction and seismic retrofit

Relevant aspects

- Demolition and reconstruction intervention in a highly sensitive urban environment
- Need to design and implement non-ordinary structural interventions in order to support existing structures



Montepertico

Social housing in La Spezia

Location

Via Fontevivo, La Spezia

Year

- Design: September 2017 – March 2020
- Structural construction supervision "DL": June 2019 – April 2020

Client

DEA CAPITAL REAL ESTATE SGR S.p.A.
Fondo Housing Sociale – Liguria

Area

Residential / Social housing

Activities

- Preliminary, developed and detailed structural design of the excavation support works
- Structural construction supervision "DL"

Project cost

28.000.000,00 €

Structure cost

6.500.000,00 €

Size

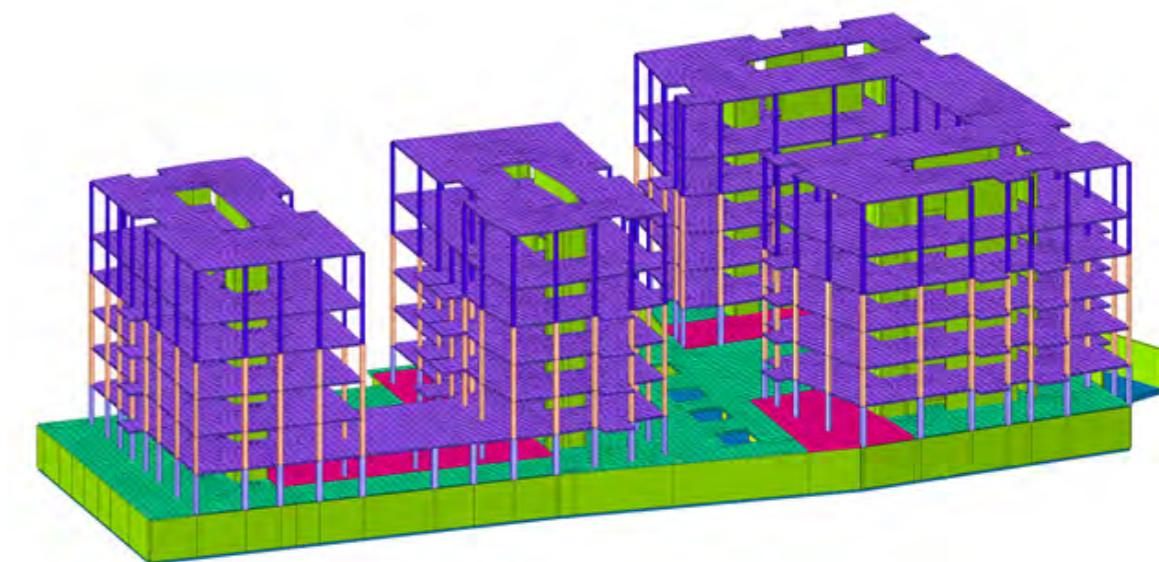
- GBA: 16.895 sqm
- Plan surface: 24.000 sqm
- Volume (underground + above ground): 72.000 mc
- N. 1 building - 2 floors above ground to be used as garage
- N. 3 buildings - 6 floors above ground without undergrounds
- N. 4 buildings - 6 floors above ground + 1 shared underground

Lead engineers

- Ing. Gianluca Pittelli
- Ing. Bruno Finzi
- Ing. Lorenzo Mariani

Regulatory framework

New construction



**BIM
45**

Activity

3D modeling of structures and geotechnical works. Coordination between structural and civil discipline. Calculation from the model.

Division

Structural design

Design phase

- Preliminary design
- Developed design
- Detailed design

Software

Revit

Lead engineers

- Technical manager: Ing. G. Pittelli
- BIM Manager / BIM Coordinator: Ing. L. Cattaneo

Corte del Moro

New life on the Naviglio

Location

Via Manfredonia 4, Milan

Year

- Design: May 2017 – April 2018
- Construction supervision "DL": January 2018 – May 2020
- Safety inspection coordination: January 2018 – May 2020

Client

San Cristoforo s.r.l.

Area

Residential

Activities

- Preliminary, developed and detailed structural design
- Structural construction supervision "DL"
- Safety inspection coordination

Project cost

8.912.714,00 €

Structure cost

2.606.410,00 €

Size

- GFA: 3.764,30 sqm - Plan surface: 3.146 sqm
- Volume (underground + above ground): 31.130 mc
- N. 7 floors above ground - N. 1 floor underground

Lead engineers

- Ing. Bruno Finzi
- Ing. Bruno Becci
- Ing. Mauro Savoldelli

Regulatory framework

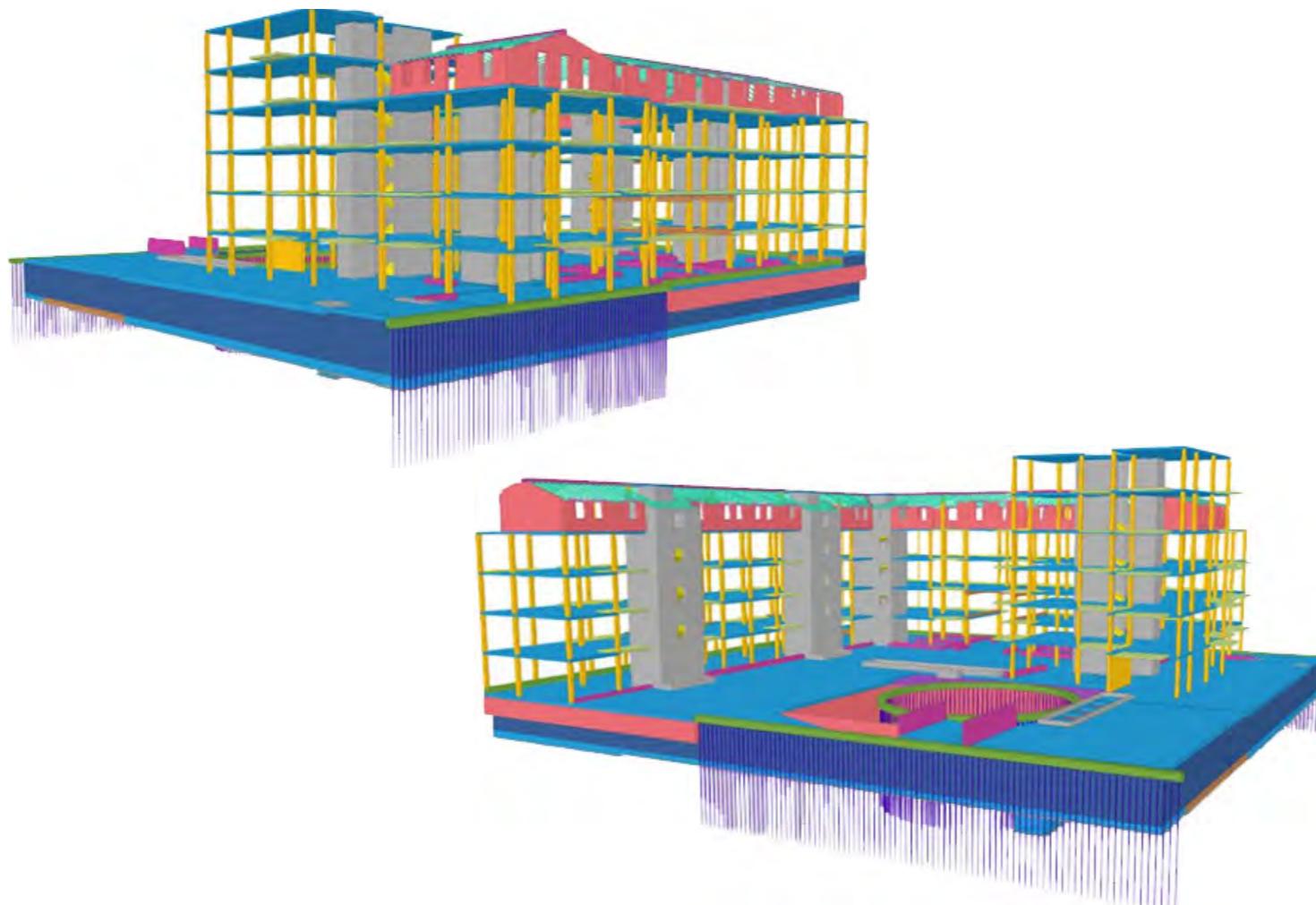
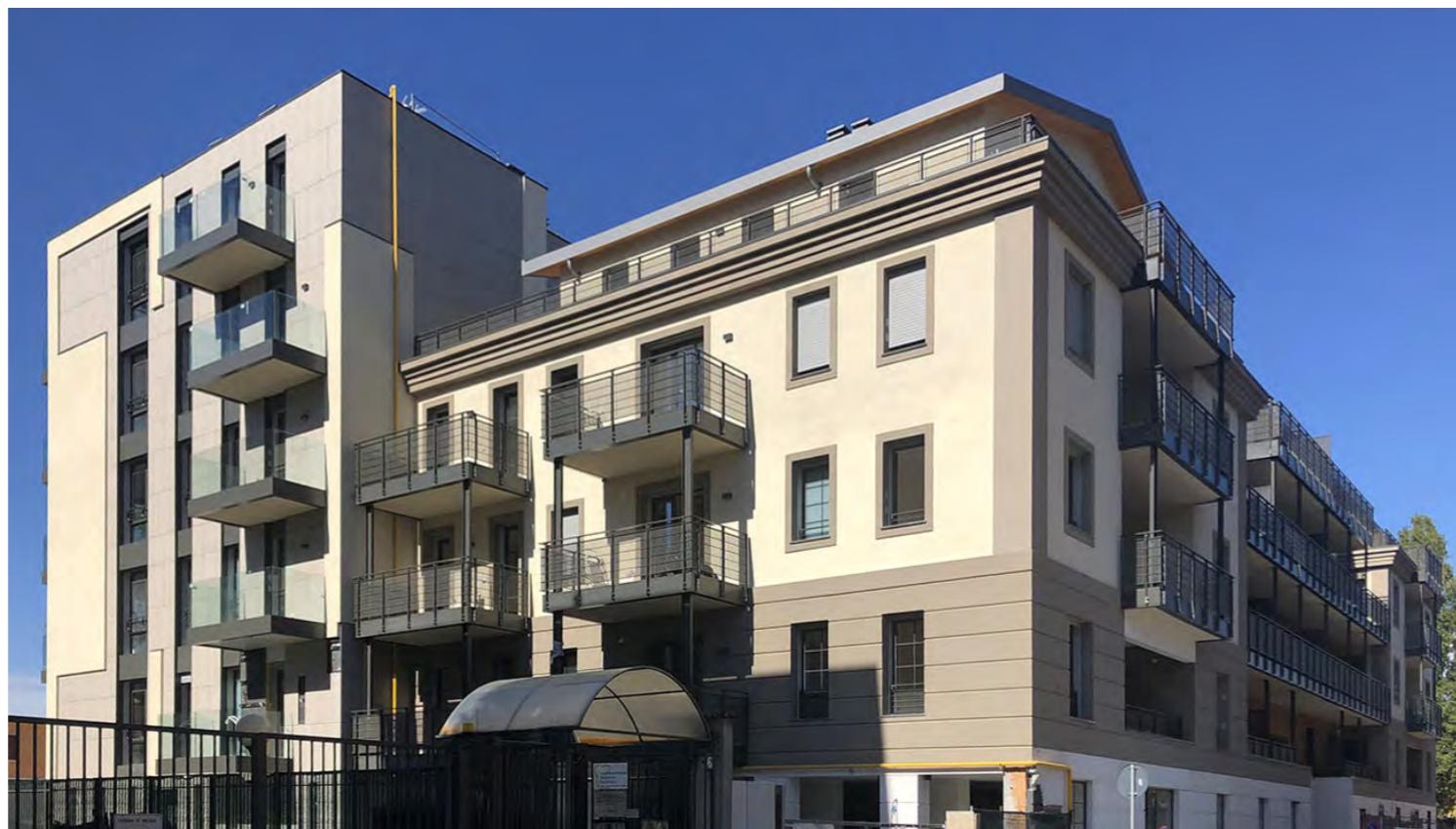
New construction

Prefabrication

Metal and wooden structures on the top floor

Sustainability

Use of steel structures, 100% recyclable, and the entire pitched roof of the building is made of laminated wood



BIM 45

Activity

3D modeling of structures.
Extraction of documents from model.
Coordination with the architectural and plant engineering disciplines.

Division

Structural design

Design phase

- Detailed design

Software

Tekla

Lead engineers

- Technical manager: Ing. B. Finzi

Urban Garden

Designing nature in the city

Location

Via Verona 5, Milan

Year

- 2016 - 2019

Client

Bluestone Verona srl

Area

Residential

Activities

- Preliminary architectural and structural design
- Structural and geotechnical detailed design of demolition and excavation containment works
- General and structural construction supervision "DL" of the demolition of existing buildings and containment of the excavations

Project cost

20.857.701 €

Size

- 4.848 sqm
- 56 apartments
- 3.000 sqm of green areas

Lead engineers

- Ing. Patrizia Piera Polenghi
- Ing. Gianluca Pittelli

Regulatory framework

New construction

Relevant aspects

- Presence in the heart of the city of a park hidden but accessible to the public and therefore perceptible from the building curtain
- Large loggias and terraces that geometrically create the facade



BIM 45

Attività svolta

Modellazione 3D delle opere civili e strutturali. Estrazione degli elaborati dal modello. Presentazione pratica autorizzativa con elaborati e conteggi estratti dal modello. Coordinamento tra disciplina strutturale e civile; modello MEP assente.

Divisione

Integrated design

Fase progettuale

- Progetto definitivo
- Progetto esecutivo
- Autorizzazioni edilizie

Software

Revit

Figure coinvolte

- Ingegnere senior: Ing. G. Pittelli
- BIM Coordinator: Ing. L. Cattaneo

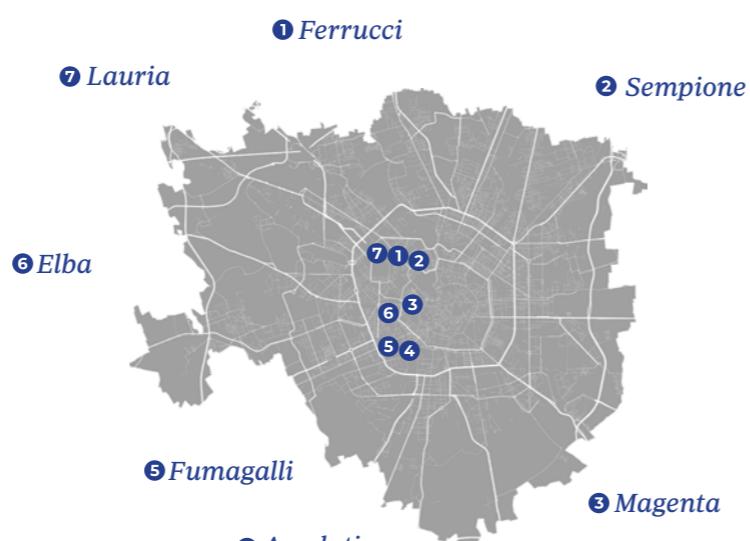
Investire SGR BIM 45

Living better starts here

Location

Milan, 7 different buildings

- Via Lauria 12
- Corso Magenta 54
- Via Argelati 30/A
- Via Elba 14
- Via Fumagalli 7
- Corso Sempione 39
- Via Ferrucci 2



Year

- 2020 - ongoing

Client

InvestiRE SGR

Area

Residential

Activities

- Integrated design

Project cost

30.000.00,00 € (est.)

Size

- 7 buildings located throughout the Milan area
- GFA about 25.000 sqm

Lead engineers

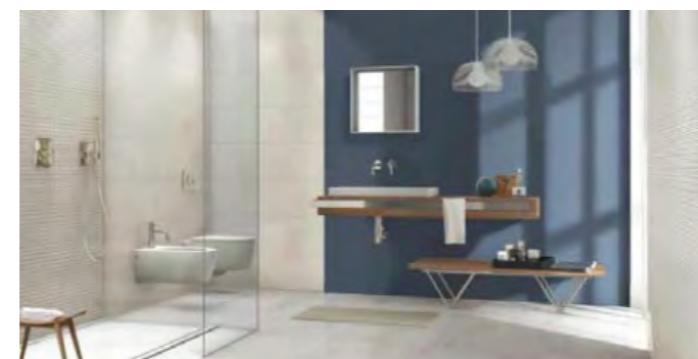
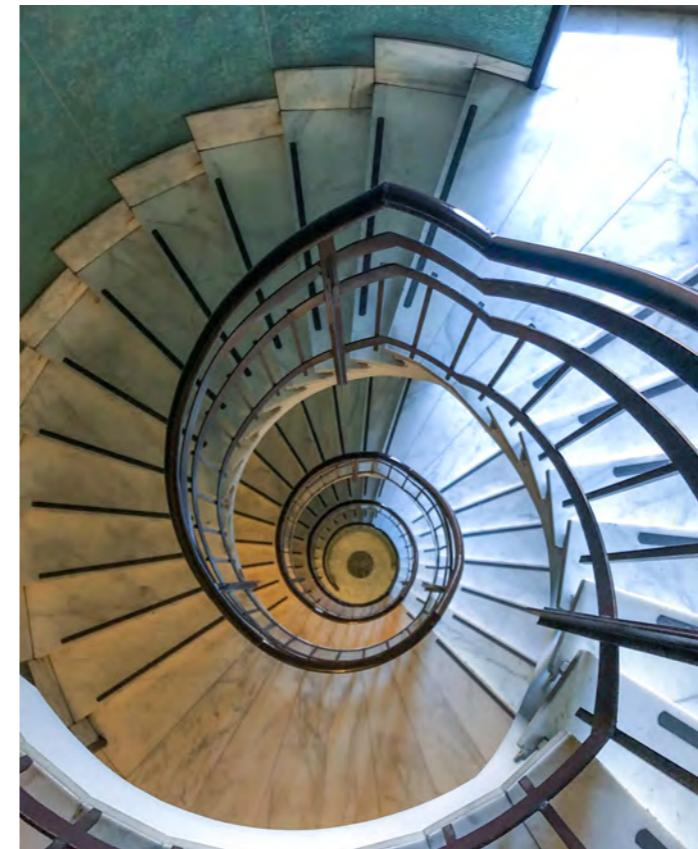
- Ing. Patrizia Polenghi

Regulatory framework

Redevelopment

Relevant aspects

Careful management of the construction site which allowed the simultaneous stay of the tenants inside their homes in safe conditions



Elba

Investire SGR

BIM
45

Magenta 54

Living better starts here

The image displays a detailed architectural rendering of the Magenta 54 residential complex. It features a central building with multiple floors, each showing a different floor plan with various rooms and balconies. To the left, a large circular inset shows a balcony area with a wooden deck, a white sofa, and string lights. To the right, another circular inset shows a modern bathroom with a freestanding bathtub, a walk-in shower, and a double sink. Below the main building, there are several green terraces with lounge chairs and small pools. A third circular inset shows a living room with a large sofa, a coffee table, and a fireplace. On the far right, a circular inset shows the building's exterior, which is a blend of modern glass and steel structures and a historic facade with arched windows and balconies. The overall design is a mix of modern luxury and historical charm.

Fine finishes

Big balconies and dehors

Wide and comfortable spaces

Historical facade

Crivelli 30

A stone's throw from the Roman walls

Location

Via Crivelli 30, Milan

Year

- 2016 - 2019

Client

Bluestone Crivelli srl

Area

Residential

Activities

- Preliminary and construction architectural and structural design
- Structural and geotechnical detailed design of the demolition and containment works of the excavations
- General and structural construction supervision "DL" of the demolition of existing buildings

Project cost

13.093.171,11 €

Structure cost

4.339.862,32 €

Size

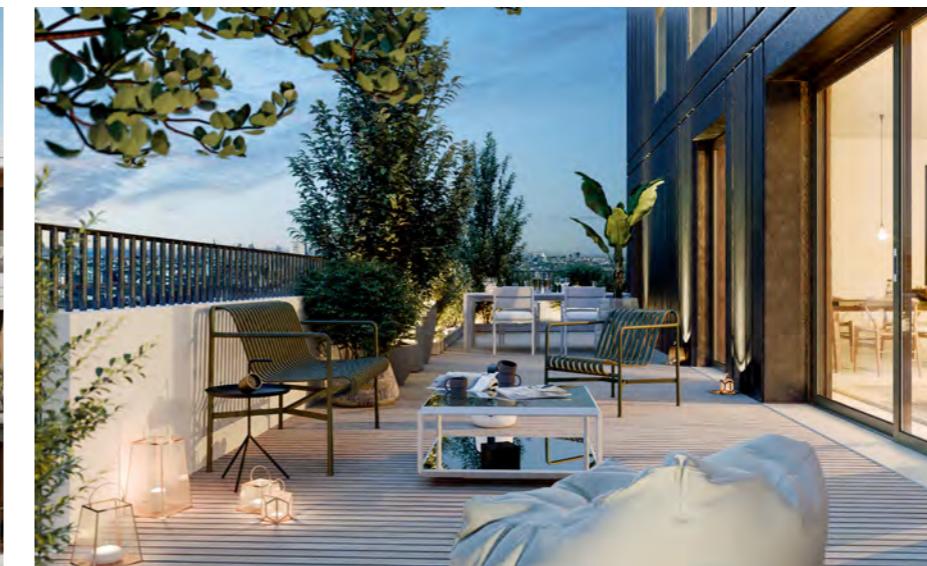
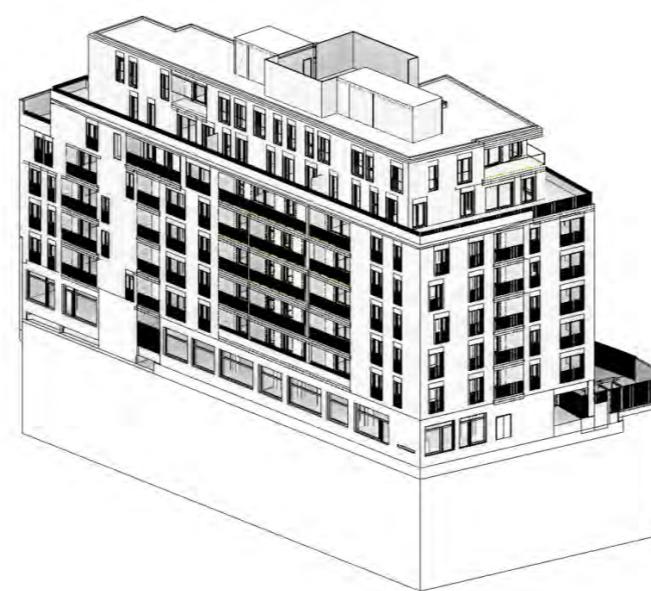
- Surface: 1.334 sqm
- 42 residential units
- 2 commercial units

Lead engineers

- Ing. Patrizia Piera Polenghi
- Ing. Lorenzo Mariani

Relevant aspects

- Redevelopment of a historic Milanese area
- Limited area of the lot and narrow construction site spaces along a traffic artery with a heavy component of public transport



Ponte Vetero

In the heart of Brera, Milan

Location

Via Ponte Vetero 16/18, Milan

Year

- 2010 – 2019

Client

Defi srl

Area

Residential

Activities

- Integrated design in the detailed design phase
- Specialized design of structures, systems and fire prevention in the preliminary, developed and detailed design phases
- General, structural, civil works, plant construction supervision "DL"
- Safety design coordination / safety inspection coordination
- Obtaining of building permit

Project cost

11.902.565 €

Size

- Building capacity: 3.250 sqm

Lead engineers

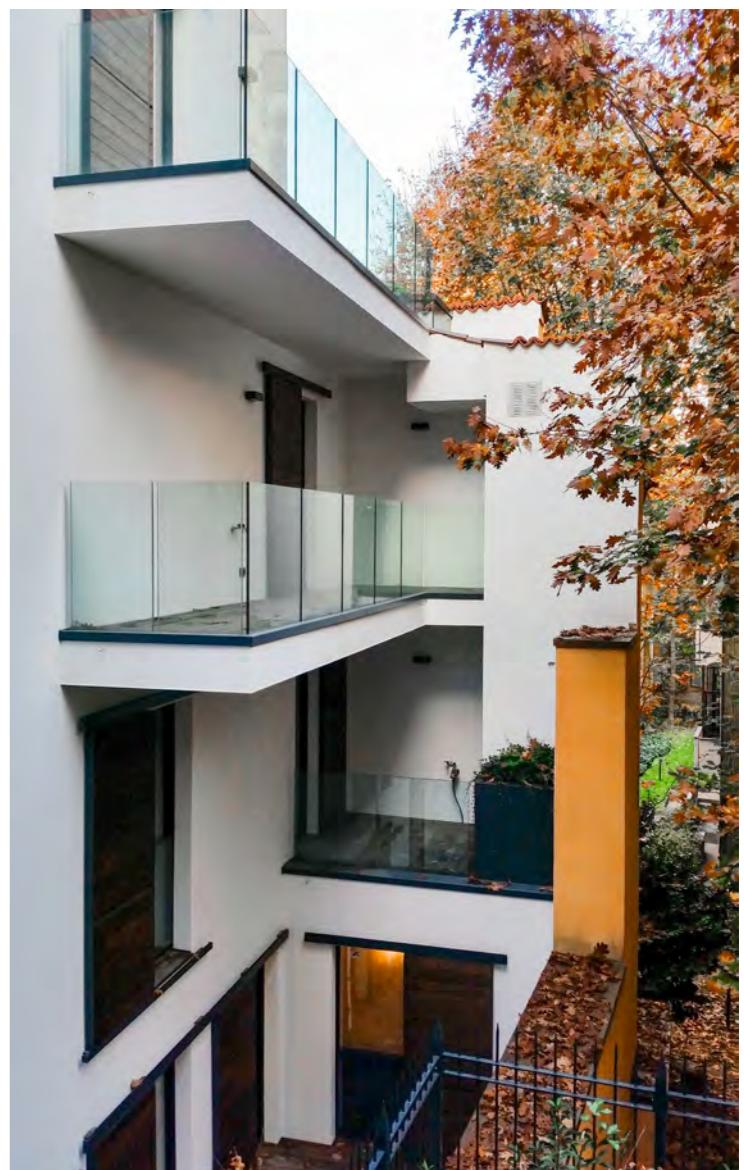
- Ing. Alessandro Sabato

Regulatory framework

New construction

Relevant aspects

- Choice of structural types in relation to the difficulty of building site, with costly and complex construction phasing
- Complexity of the soli support works, necessary for the construction of the excavation for the underground car park
- High-quality finishes combined with cutting-edge technological and plant solutions



Boezio 20

MIA the Italian house

Location

Via Boezio 20, Milan

Year

- Design: 2014 - 2015
- Structural Construction supervision "DL": 2015 - 2017

Client

BNP PARIBAS REAL ESTATE / General Planning srl

Area

Residential

Activities

- Preliminary structural design
- Demolition and excavation supervision
- Developed structural design of the building and collaboration in the detailed design phase
- Operational structural construction supervision "DL"

Project cost

23.000.000,00 €

Structure cost

4.500.000,00 €

Size

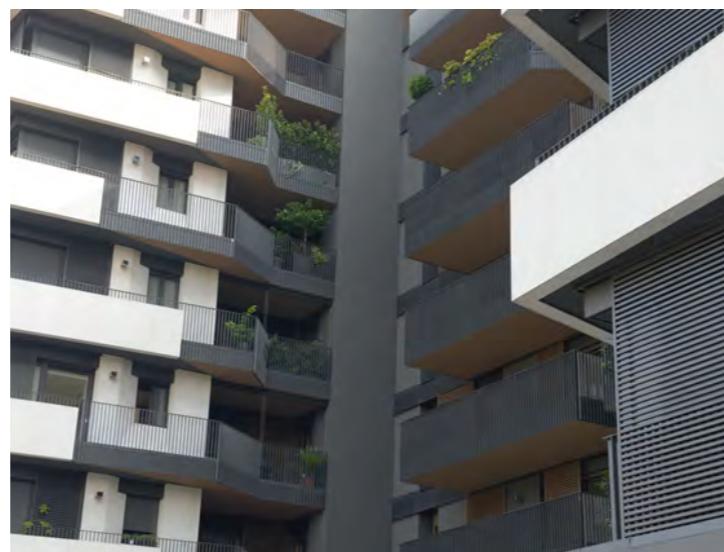
- GBA: 14.500 sqm
- GFAP: 10.000 sqm
- N. 11 floors above ground in the buildings facing the street
- N. 8 floors above ground
- n. 2 underground floors - 102 apartments

Lead engineers

- Ing. Bruno Finzi
- Ing. Alessandro Sabato

Regulatory framework

New construction



General interest

QC Salsomaggiore

SPA redevelopment

Location

Piazza Berzieri, Salsomaggiore

Year

- Design: February 2018 – may 2023
- Construction: september 2023 - ongoing

Client

QC Terme s.r.l.

Area

General interest

Activities

- Preliminary, developed and detailed structural design
- Structural construction supervision "DL"

Project cost

n/a

Structure cost

1.250.000,00 €

Size

- GBA: 2.900 sqm

Lead engineers

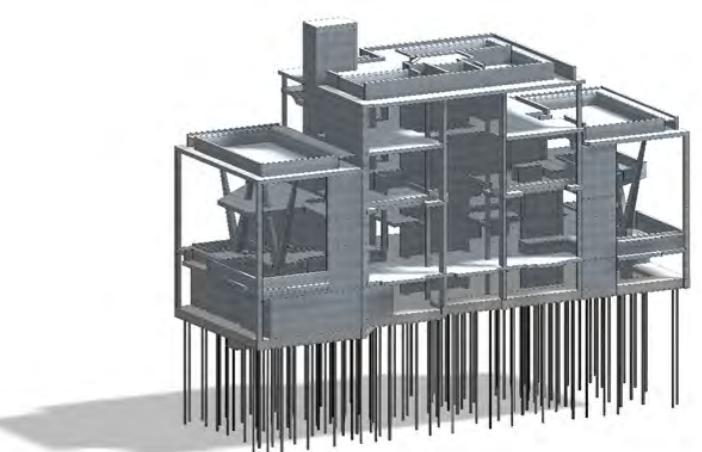
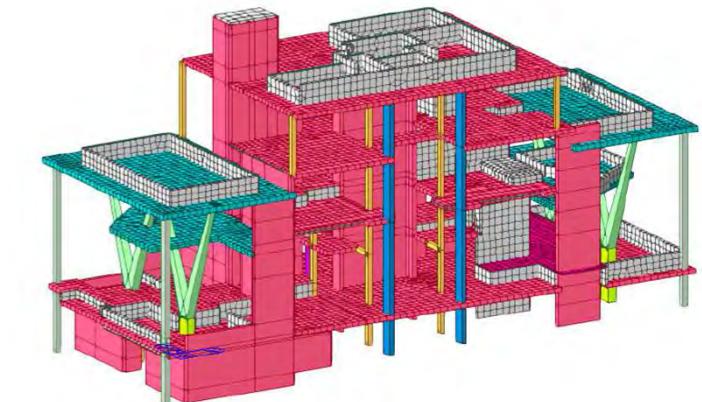
- Ing. Gianluca Pittelli
- Ing. Alessandro Sabato
- Ing. Andrea Colombo

Regulatory framework

Riqualification and seismic retrofit

Relevant aspects

- Restoration works involve both Palazzo Berzieri and the former Thermal Power Plant, which will be transformed into a Spa with 9 pools
- Delicate intervention at the former Thermal Power Plant, involving the complete demolition of the internal spaces and their reconstruction from scratch while retaining the existing perimeter facades - under the supervision of the heritage authority - using a strong scaffolding structure
- The chimney is also under heritage protection and will be strengthened while fully respecting its original appearance



BIM 45

Activity

3D modeling of structures.
Extraction of documents from model.
Coordination with the architectural discipline and with the structural calculation model. Calculation from the model.

Division

Integrated design

Design phase

- Preliminary design

Software

Allplan, Solibri, BIM Collab

Lead engineers

- Technical manager: Ing. G. Pittelli
- BIM Coordinator: Ing. L. Cattaneo

Cesena Sport City

Discover the joy of play

Location

Cesena

Year

- 2022 - ongoing

Client

Comune di Cesena

Project funded by the Presidency of the Council of Ministers

Construction funded by PNRR – EU Next Generation Program

Concept Design

Degli Esposti Architetti

Area

Sport

Activities

- Preliminary, developed and detailed structural design
- Preliminary, developed and detailed geotechnical design

Budget

18.980.000 €

Lead engineers

- Ing. Gianluca Pittelli
- Ing. Davide Emmanuello

Regulatory framework

New construction and partial demolition of existing buildings

Relevant aspects

Redevelopment of the main sports center of the city of Cesena, consisting of sports and recreational facilities municipally owned, with partial demolition and reconstruction.

Strategic guidelines study and overall concept design approved by the City of Cesena.

Completed projects:

- Cesena Athletics Sport Center (Hippodrome district);
- Villa Chiaviche Sports Citadel.

Design development:

- new swimming pools center;
- billiards hall;
- velodrome;
- cycle paths.



Palazzo delle Scintille

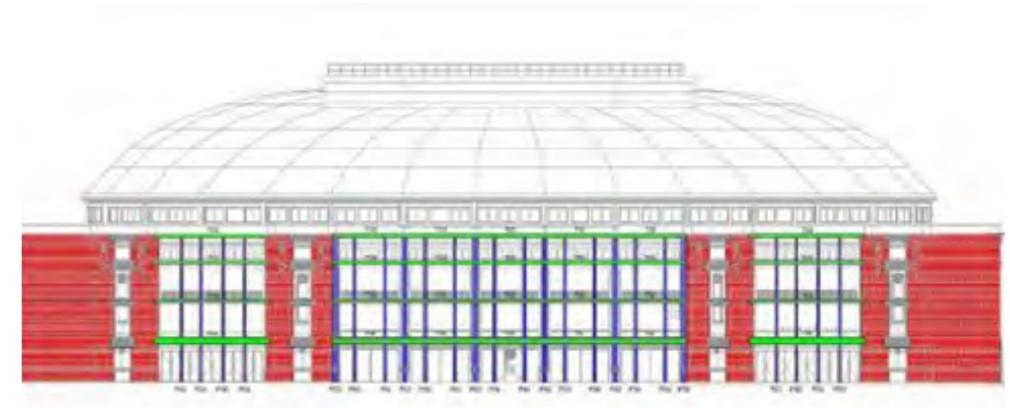
A Renaissance of the Past

Location

Largo Domodossola 1, Milan

Year

- Design: September 2020 – ongoing
- Safety coordination during the design phase: September 2020 - ongoing



Client

Generali Real Estate S.p.A.

Area

General interest

Activities

- Preliminary, developed and detailed structural design
- Safety design coordination

Project cost

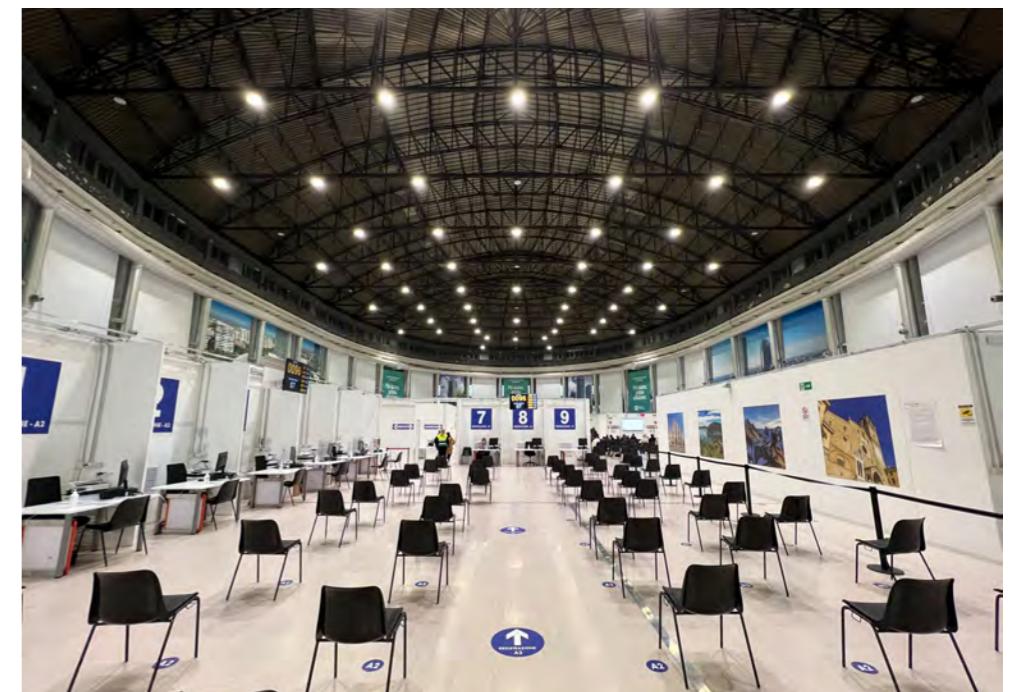
14.000.000 €

Structure cost

4.800.000 €

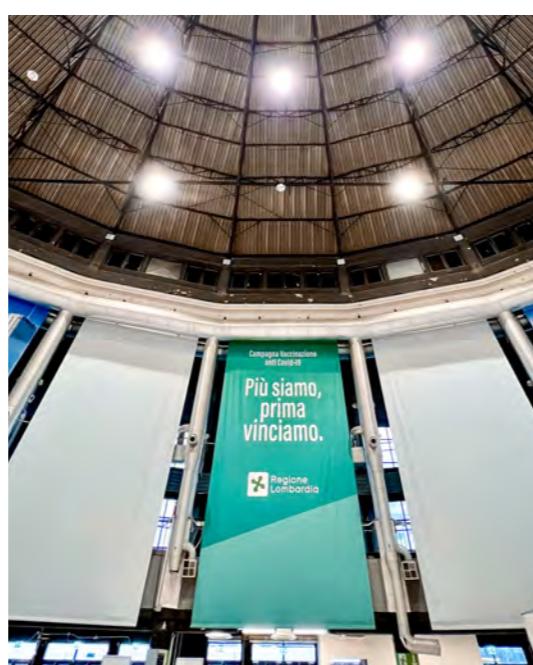
Size

- GFA: 14.990 sqm
- GBA: 26.940 sqm



Lead engineers

- Ing. Valter Carni
- Ing. Luca Rossini



Regulatory framework

Intervention on existing building as per NTC 2018

Prefabrication

Metal carpentry structures of the roof

Sustainability

Roof cover is made of steel

Sala Billanovich

New light for 90,000 volumes

Location

Gregorianum building - via Lanzone 30, Milan

Year

- Design: september 2019– december 2020
- Execution: february 2020 - january 2023

Client

Università Cattolica del Sacro Cuore

Area

University

Activities

- Complete integrated design:
- Preliminary, developed and detailed architectural design
 - Preliminary, developed and detailed structural design
 - Preliminary, developed and detailed plant design
(in partnership with Rethink srl and Esselle Progetti)
 - Design coordination
 - Safety design coordination; safety inspection coordination
 - General construction supervision "DL"
 - Specialist construction supervision "DL"

Project cost

1.860.000,00 €

Structure cost

250.900,00 €

Size

- Gross surface area: 1.350 sqm

Lead engineers

- Ing. Bruno Finzi
- Ing. Mauro Savoldelli
- Arch. Anna Legnani

Regulatory framework

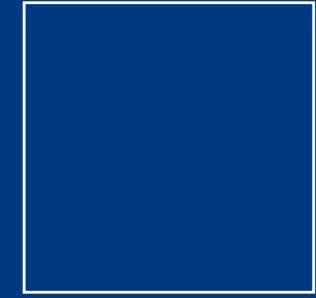
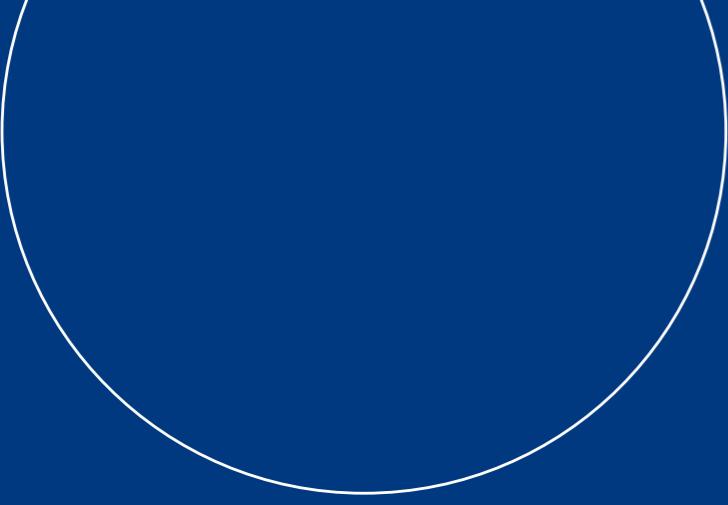
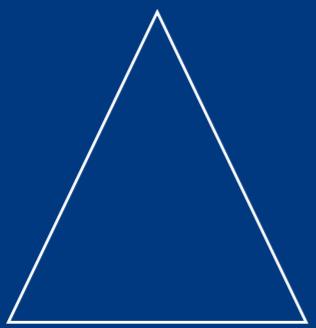
Conservative restoration (DPR 380/2001 art. 3)

Relevant aspects

- Sala Cinquecentine: independent compartment with dedicated plants, it houses 2,000 volumes from the 16th century and 39 incunabula from the 1400s
- Coordination of plant strategies and interventions to strengthen existing structures



Hospitality



21 House of Stories

Coworking and 4* hotel

Location

via Bettinelli, Milan

Year

- 2018 - 2023

Client

Bettinelli 3 Srl

Area

Hospitality

Activities

- Preliminary, developed and detailed structural design

Project cost

17.500.000,00 €

Structures cost

2.200.000,00 €

Size

- SL: 6.000 smq
- 8 floors above ground, 1 underground
- 104 rooms
- 1.000 sqm of open-air common spaces

Lead Engineers

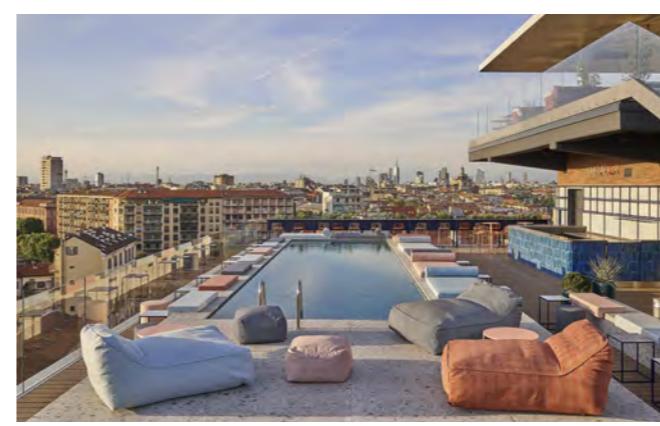
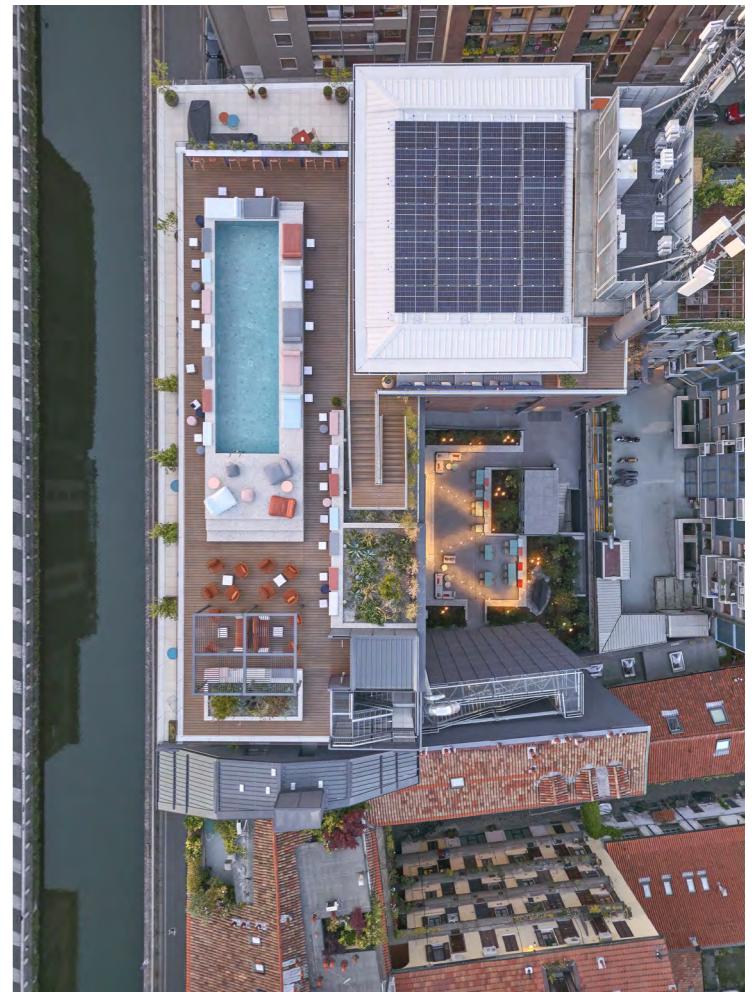
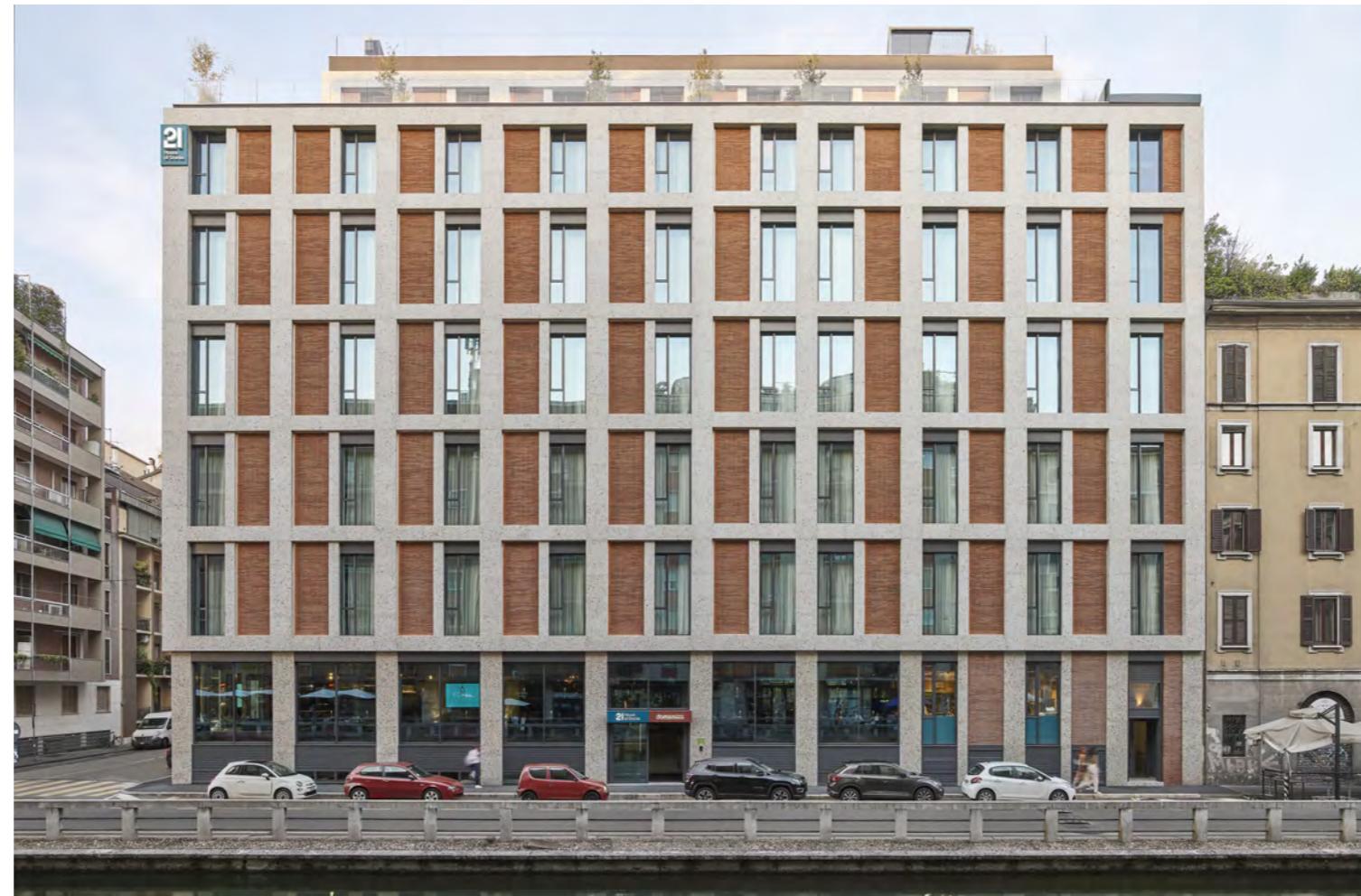
- Ing. Mauro Savoldelli
- Ing. Davide Emmanuello

Regulatory framework

Seismic retrofit of structures in accordance with NTC'18

Relevant aspects

- Redevelopment project for a building dating back to the 1960s, which housed a telephone exchange and related offices
- Objective to scale down the imposing volume of the building to an urban scale harmonious with its surroundings, achieved by breaking it down into smaller elements reflecting the modularity of residential units
- Addition of new reinforced concrete shear walls and reinforcement of existing ones through reinforced cladding. Also, steel framework extensions are introduced to reduce the impact of seismic forces during architectural reconfiguration.



Excelsior Hotel Gallia

The rebirth of Art Nouveau

Location

Piazza Duca d'Aosta, Milan

Year

- Design: 2011 – 2014

Client

ZH-M Gallia S.p.A.

Area

Hospitality

Activities

- Preliminary, developed and detailed structural design

Project cost

n/a

Structure cost

14.452.970,00 €

Size

- GFA: 31.500 sqm

Lead engineers

- Ing. Bruno Finzi
- Ing. Giovanni Canetta

Regulatory framework

Redevelopment / restoration



Hotel Fabriqa BIM 45

Former CIRIO with five stars

Location

Porto Ercole, Grosseto

Year

- Design: 2018 – 2019

Client

QARLBO srl

Area

Hospitality

Activities

- Preliminary, developed and detailed structural design
- Preliminary, developed and detailed geotechnical design

Project cost

5.000.000,00 €

Structure cost

5.000.000,00 €

Size

- GFA: 4.500 sqm

Lead engineers

- Ing. Mauro Savoldelli

Regulatory framework

Redevelopment and new construction

Relevant aspects

- Project developed in BIM from the preliminary stages, facilitating the integration of disciplines and different teams based in Rome, Milan and Stockholm
- Particular importance of the geotechnical aspects of the work due to the proximity of the site to the coast
- Complex support works of the excavation fronts near the sea



Hotel Cordusio

The new Meliá in the historic center

Location

Piazza Cordusio 2, Milan

Year

- 2021 – ongoing

Client

Generali Real Estate SGR SpA

Client

Impresa Percassi SpA

Area

Hospitality

Activities

- Architectural construction documents design
- Structural construction documents design
- Construction documents design coordination

Project cost

17.000.000,00 €

Structure cost

2.000.000,00 €

Size

- 10.000 sqm about

Lead engineers

- Ing. Gianluca Pittelli
- Arch. Andrea Zignani

Certifications expected

- LEED e BREEAM

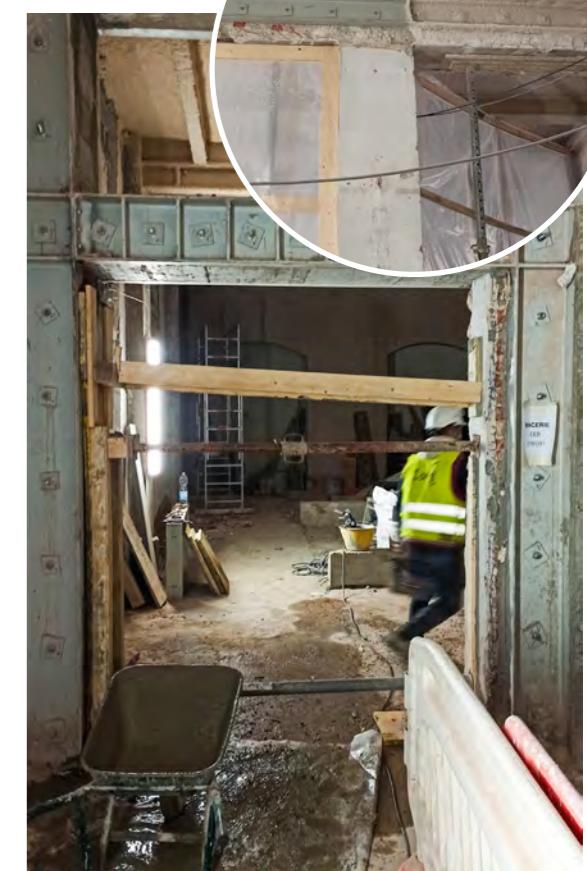
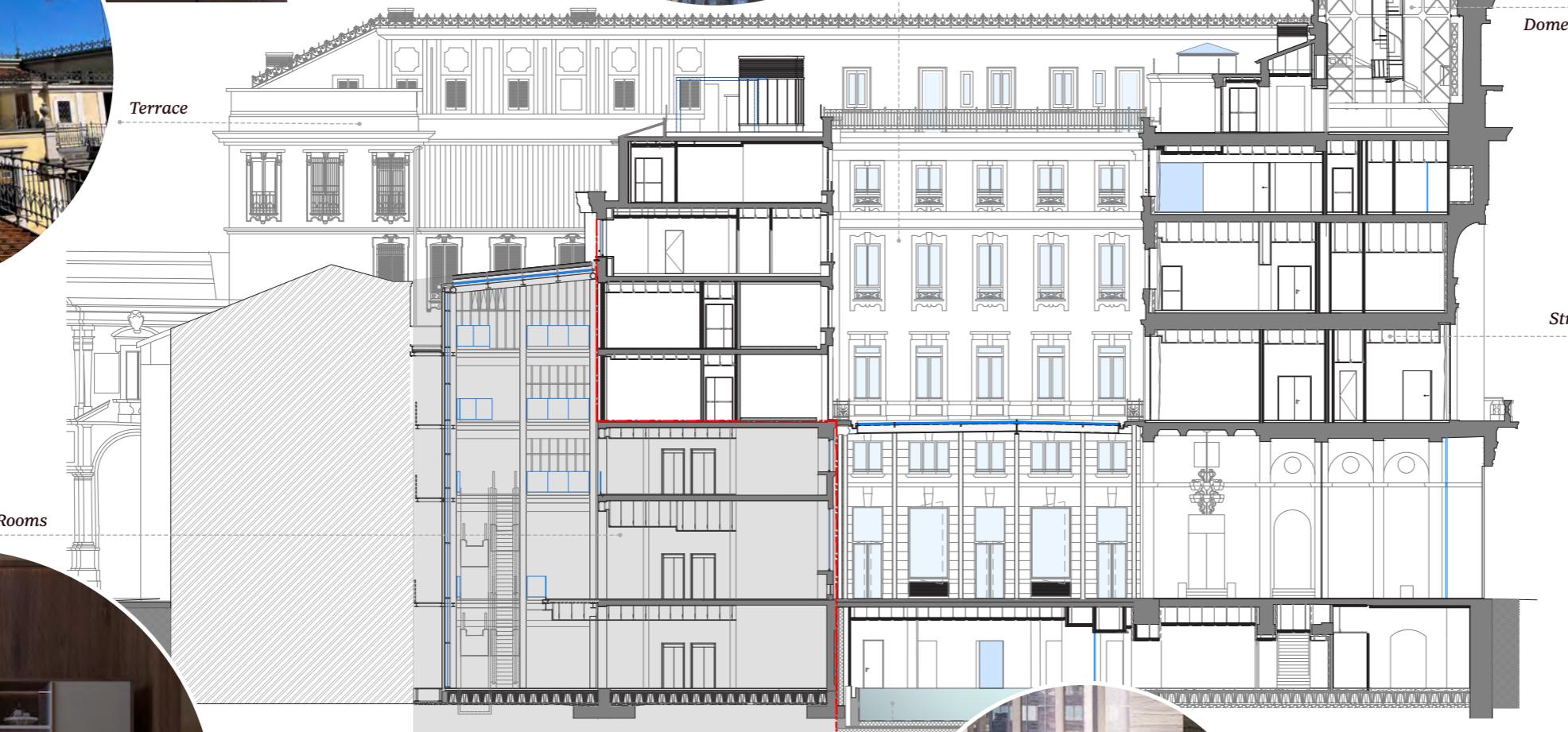
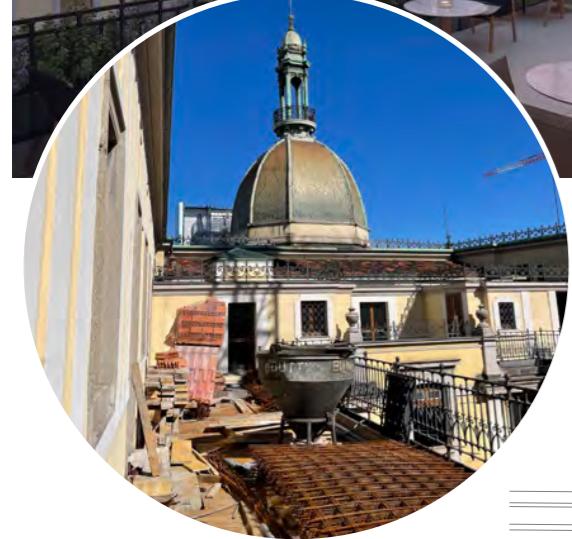
Regulatory framework

- SCIA condizionata art. 23 DPR 380/01 - renovation with modification of shape and change of use

Relevant aspects

- Enhancement of the existing building heritage
- Interventions on buildings subject to artistic constraints and inserted in a highly urbanized context and with particular logistic difficulties (historical center of the city)





UNA Hotel (ex ATA)

High performance standards

Location

Via Carlo de Cristoforis 6/8, Milan

Year

- 2017 – 2020

Client

Unipol SGRI

Area

Hospitality

Activities

- Preliminary, developed and detailed structural design
- Structural construction supervision "DL"

Project cost

n/a

Structure cost

n/a

Size

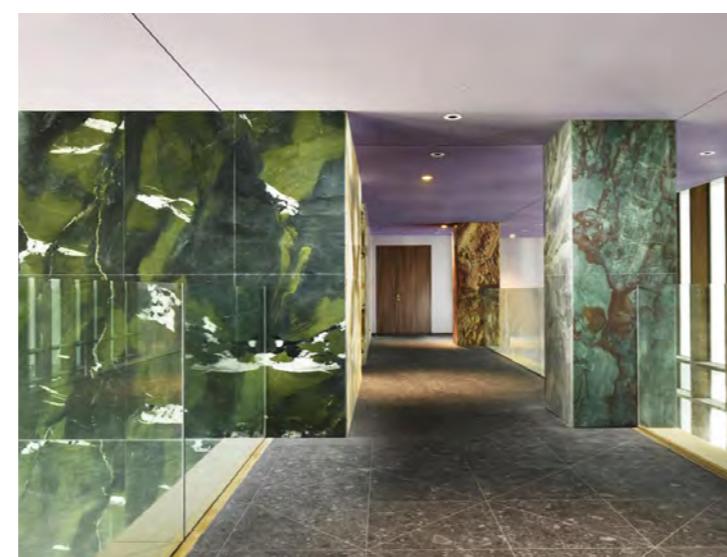
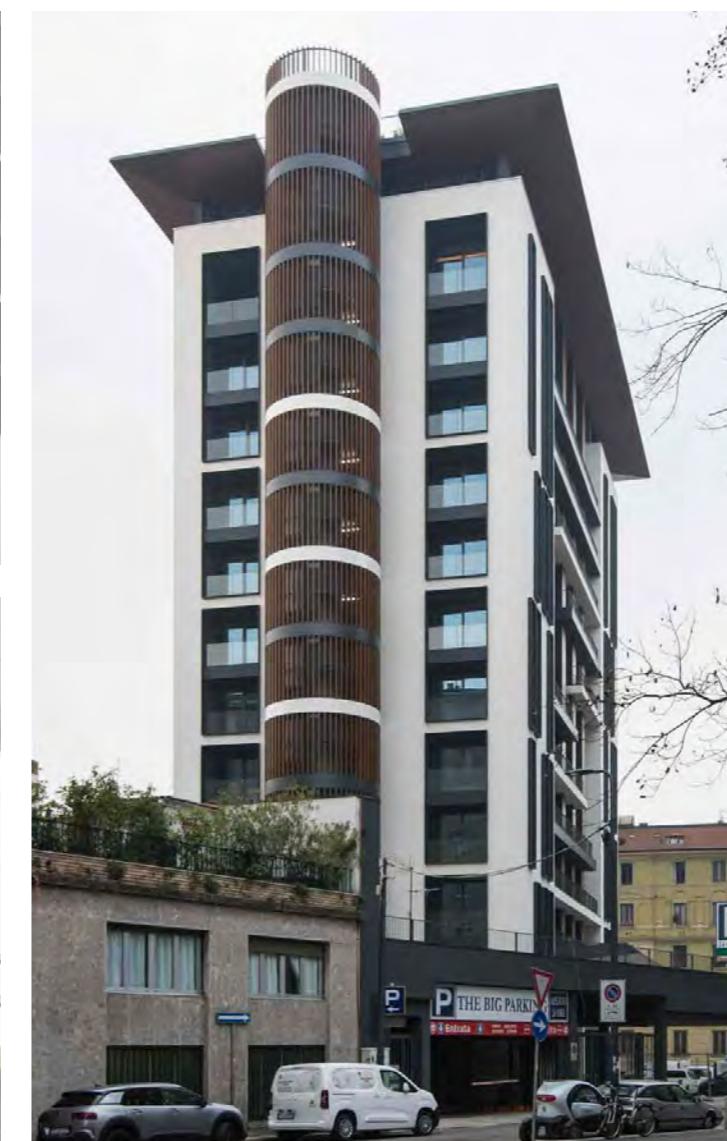
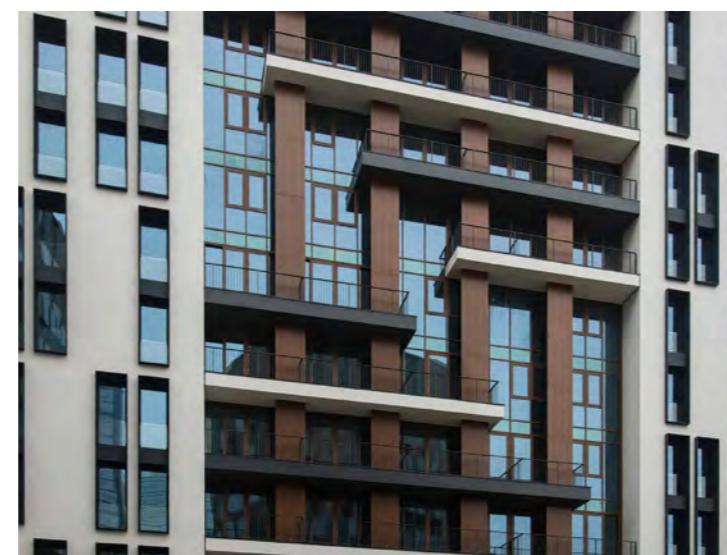
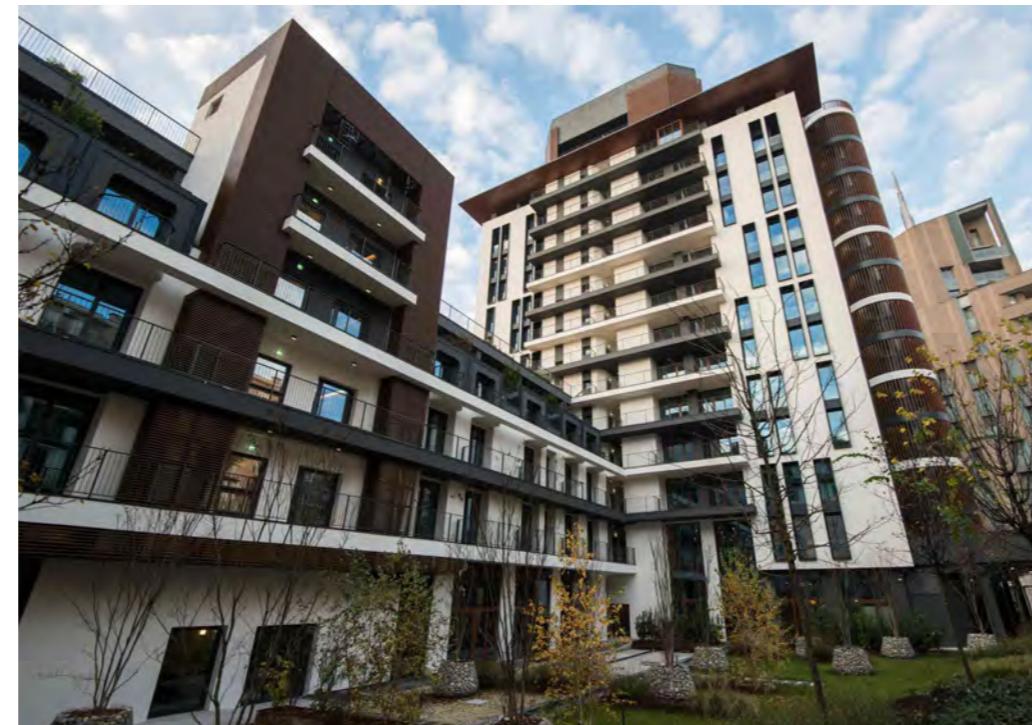
- GFA: 8.980 sqm
- 14 floors above ground
- 2 floors below ground
- Maximum height: 49 m

Regulatory framework

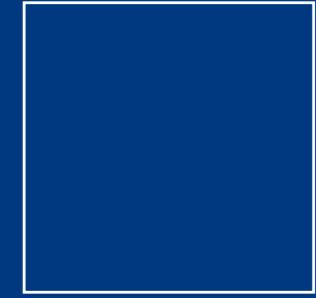
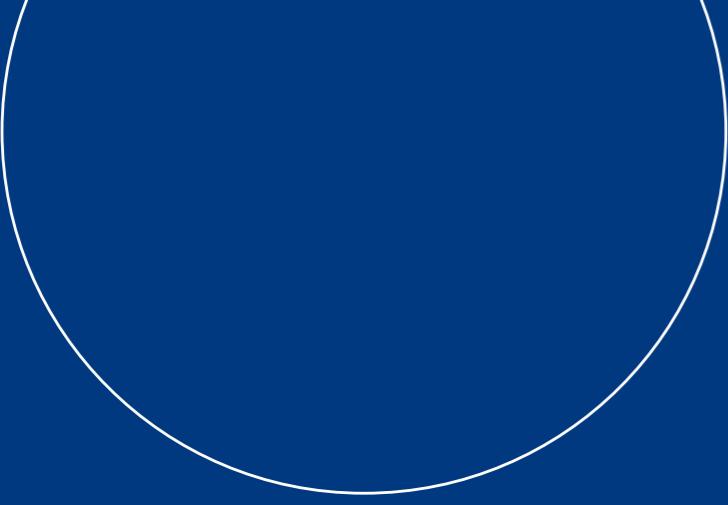
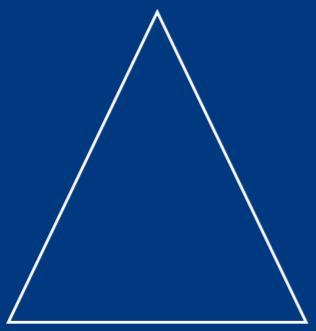
Redevelopment / restoration

Relevant aspect

Modification of the functional layout of the entire building, in order to obtain modern spaces suitable for new housing needs



Infrastructural



Sesto Station

A bridge between the past and the future

Location

Sesto San Giovanni, Milan

Year

- Construction: october 2021 - ongoing

Developer

MilanSesto SpA

Client

Prerios Integra

Architect

Renzo Piano Building Workshop RPBW with
Ottavio Di Blasi & Partners

Area

Infrastructure

Activities

- General and specialized construction supervision
(structures, civil works, mechanical, electrical, special systems)

Project cost

14.600.000 €

Size

- 89 x 18m: pedestrian walkway area
- 110m: length of photovoltaic covering

Lead engineers

- Ing. Giovanni Canetta
- Ing. Alessandro Sabato

Regulatory framework

Public and general interest work.

Areas included in the PGT (General Territorial Plan) of Sesto San Giovanni, in the Strategic Transformation Areas ATs1 (so-called Ex Falck Compound) and ATs2 (so-called Ex Railway Depot Compound).

Relevant aspects

- Part of the MilanSesto urban regeneration project, one of the largest in Europe
- Infrastructure connecting two areas of the city historically divided by the railway tracks: the former Falck areas and Piazza 1º Maggio



Genoa Subport Tunnel

Waterfront redevelopment

Location

Genoa

Year

- 2021 - 2023

Client

Rina SpA

Area

Infrastructure

Activities

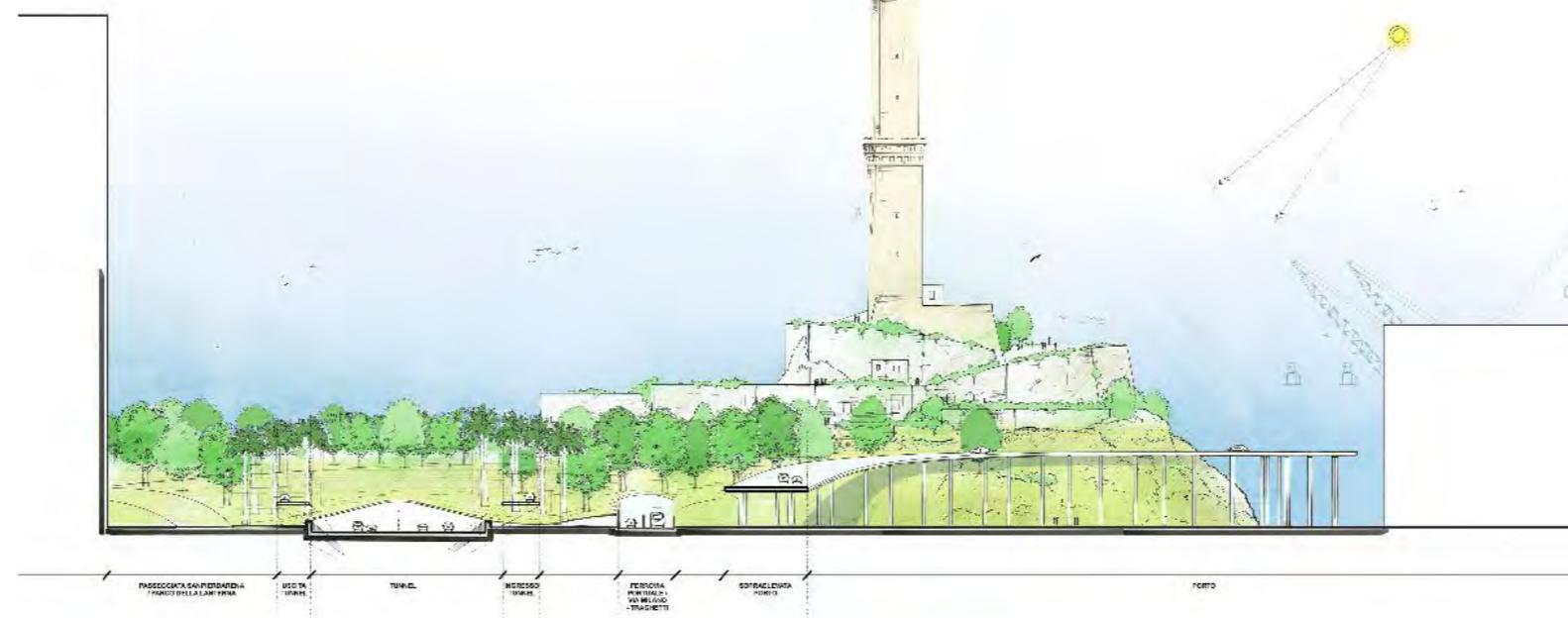
Structural consultancy for the development of the Technical and Economic Feasibility Project of provisional and final surface works, (mainly related to the entrances of the natural tunnels, shafts, and connections with the city's road network)

Lead engineers

- Ing. Giovanni Canetta
- Ing. Gianluca Pittelli
- Ing. Veronica Minardi

Relevant aspects

The project involves the road crossing of the internal basin of the Port of Genoa through the construction of a tunnel and the relevant connecting sections with the highway junction and the city's road network to the west and east of the city center.



Bridges and arches for EXPO 2015

A new landmark in the city of Milan

Location

Viale De Gasperi, via Gattamelata, Milan

Year

- 2012 - 2016

Client

Infrastrutture Lombarde SpA

Area

Infrastructure

Activities

Technical and administrative final structural certification

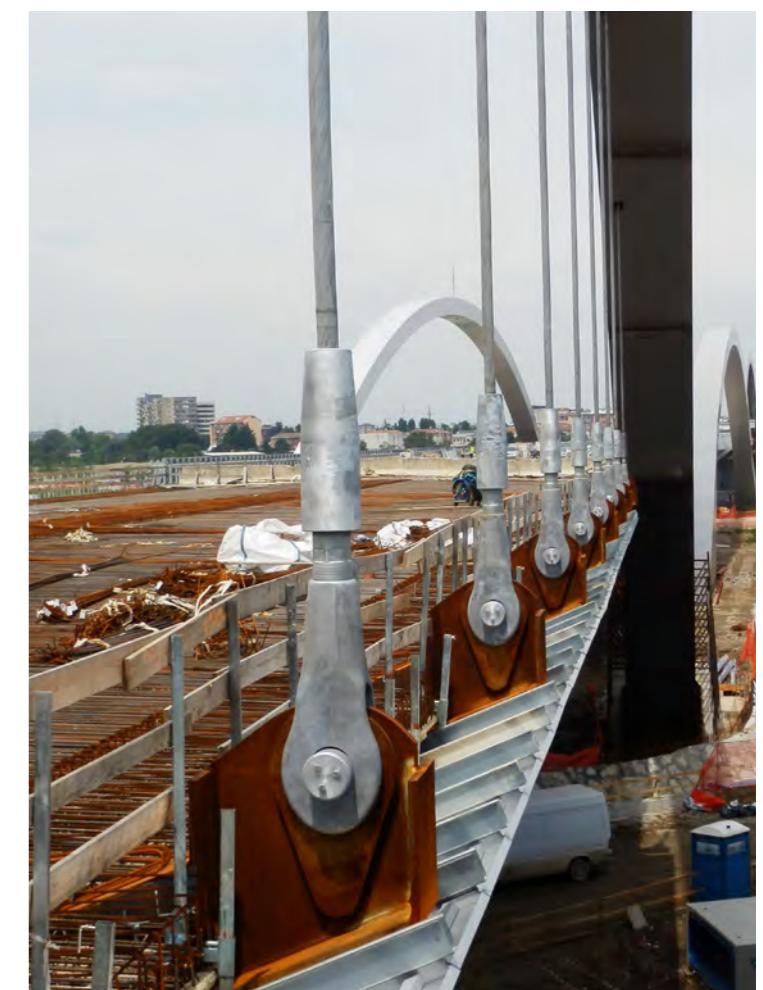
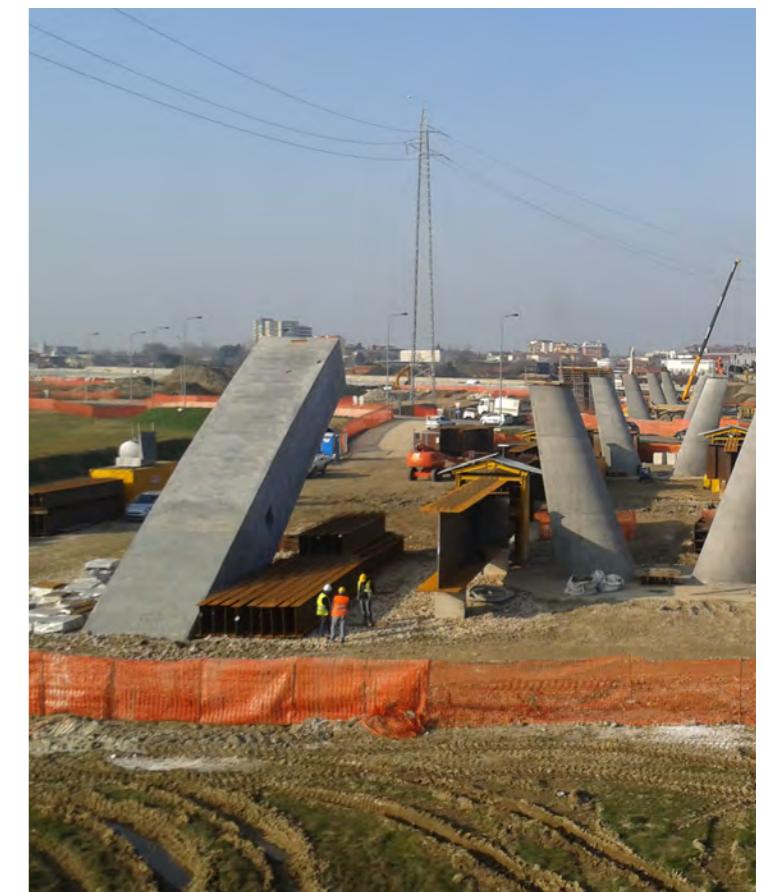
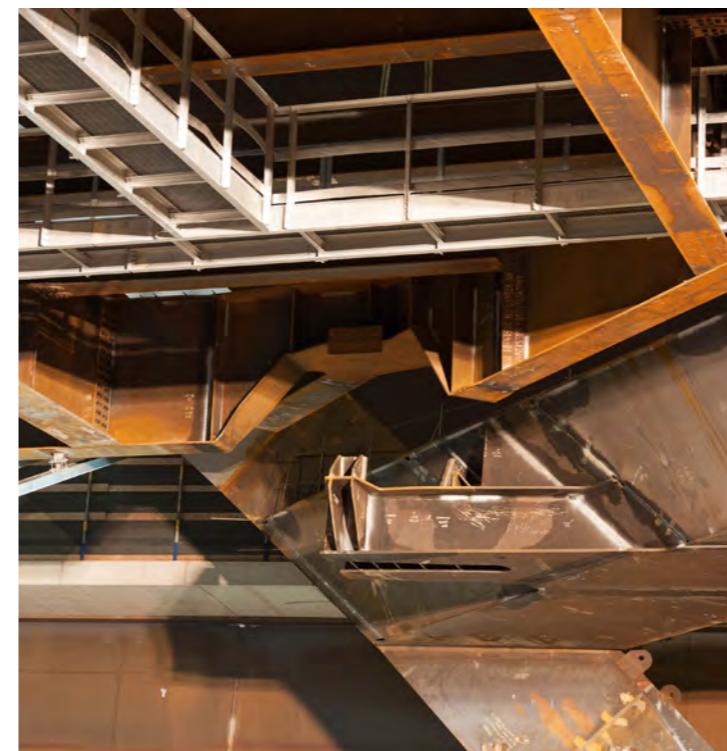
- Cascina Merlata gallery
 - Merlata roundabout
 - Box underpass at the first span of the RFI Certosa viaduct
 - RFI north and south viaducts
 - Arch bridge on the A4 motorway
 - Viadotto EXPO
 - EXPO viaduct
 - Arched bridge over the A8 motorway and related approach and junction viaduct
-

Size

- 2,250 m total of works completed
 - 22 spans
 - Bridge on the A4: span 140 m
 - Bridge over the A8: span 91 m
-

Relevant aspects

- Tests on aeroelastic model at the Wind Tunnel of the Milan Polytechnic
- The high technology of the bearings
- The sophisticated pile profile
- Overpass A4 and Expo Viaduct in a single deck
- Speed of construction



Cepav 2

AV/AC Turin-Venice

High-Speed Highway Network

Location

AV/AC Turin - Venice, functional lot Treviglio - Brescia

Year

- 2011 - 2015

Client

CEPAV2 – Consorzio ENI per l'alta velocità

Area

Infrastructure

Activities

- Developed geotechnical design

Project cost

n/a

Size

- Length of railway section: 39.6 km
- Embankments: 46.2 km
- Interconnections: 11.8 km
- Artificial tunnels: 1 km
- Viaducts: 3.2 km
- 7 overpasses
- 34 road underpasses

Lead engineers

- Ing. Bruno Becci
- Ing. Giovanni Canetta
- Ing. Luca Rossini

Relevant aspects

- High permeability soils - very shallow water table, particularly in the Bergamo section, interfering with the works
- The main structures of the Treviglio - Brescia high-speed railway line are the viaducts over the Oglio River (1,287m long) and Serio River (957m long), and the artificial tunnel "Lovernato 2" (525 meters) on the Brescia interconnection



Smart Park Varese

A landmark made of copper

Location

via Sempione, Varese

Year

- Design: 2013 - 2018
- Construction: 2018 - 2021

Client

AVT Azienda Varesina Trasporti SpA

Area

Car Park / Offices

Activities

- Integrated design
- Complete design of structures, systems and fire prevention
- Structural and general construction supervision "DL"
- Civil works supervision
- Safety design coordination / safety inspection coordination
- Obtaining permission to build
- Seismic and landscape practice

Project cost

€ 5.150.816,91

Size

- 2.600 sqm - 315 parking spaces
- 3 floors above ground, 1 floor below

Lead engineers

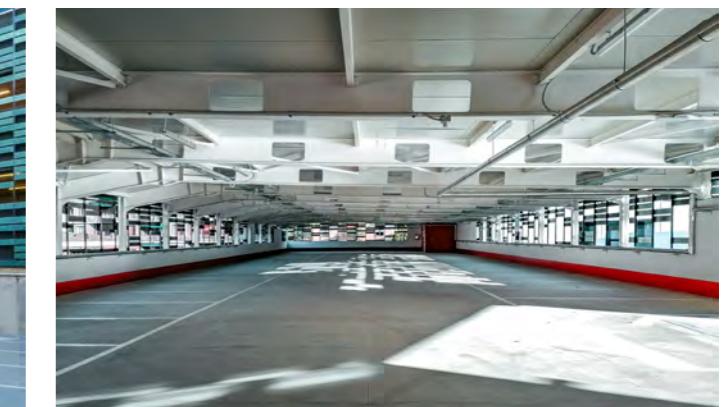
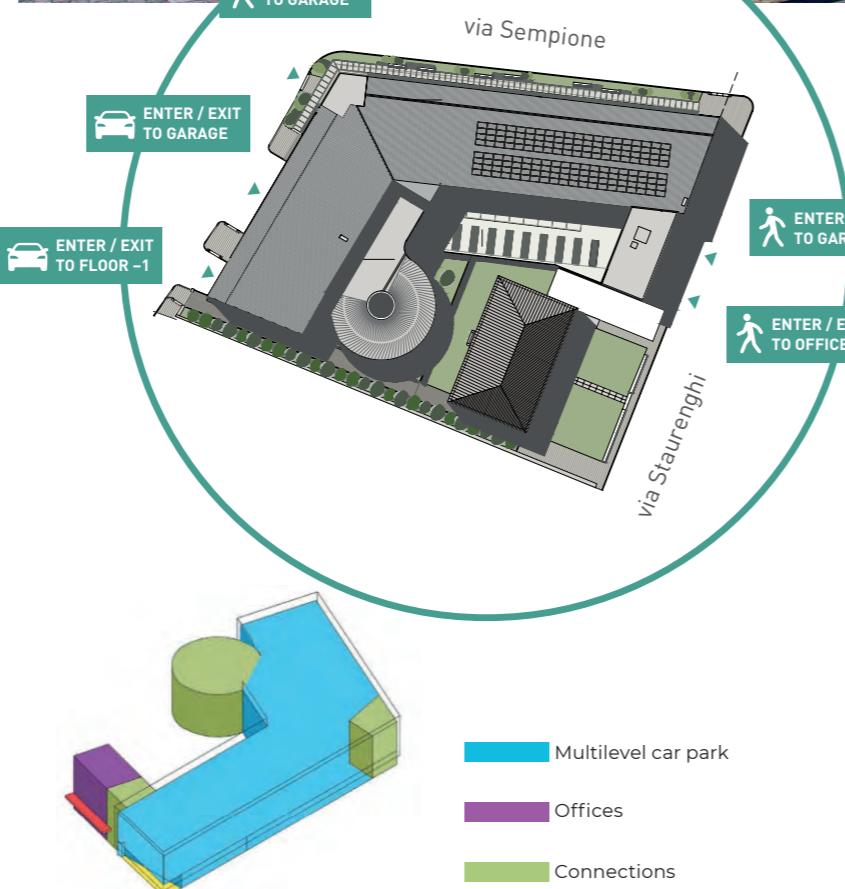
- Ing. Giovanni Canetta

Regulatory framework

New construction

Relevant aspects

- Placement in an urban context of significant historical and artistic value, a few meters from the city center of Varese
- Design of a public infrastructure with study of user flow, access to the structure and permeability of the area
- Deck rests directly on the perimeter structures of the corridors, creating a space free from pillars
- Facade made with composite copper panels randomly placed by the designer. It creates a full / empty effect that lightens the facade and provides the internal air exchange



Pepe - Farini underpass

At Isola's edge

Location

Via Guglielmo Pepe / Via Carlo Farini, Milan

Year

- 2020 - ongoing

Client

COIMA SGR SpA

Area

Infrastructure

Activities

- Preliminary, developed, and detailed structural design for the widening of Ponte Farini and the crossing of Via Pepe
- Preliminary, developed and detailed geotechnical design

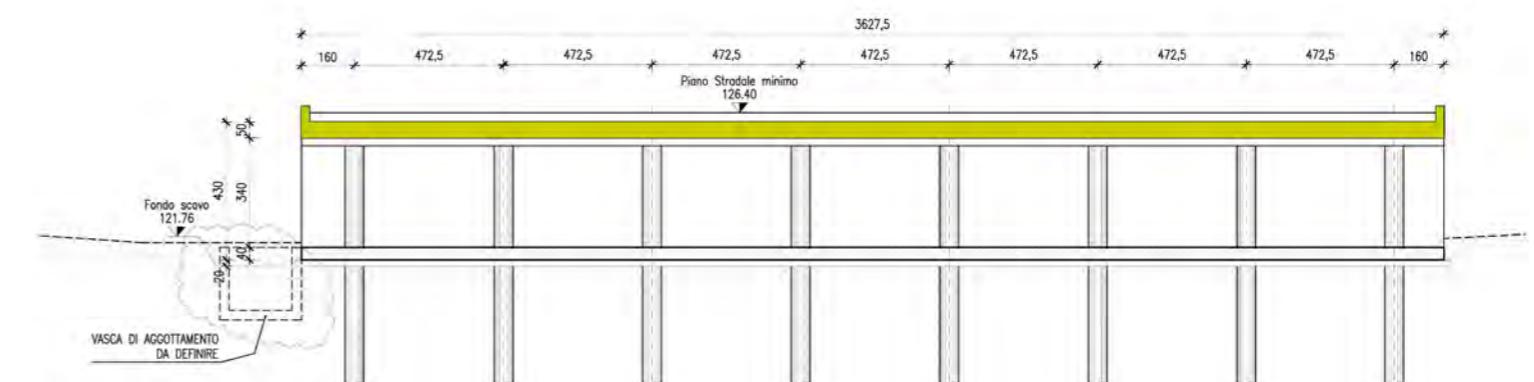
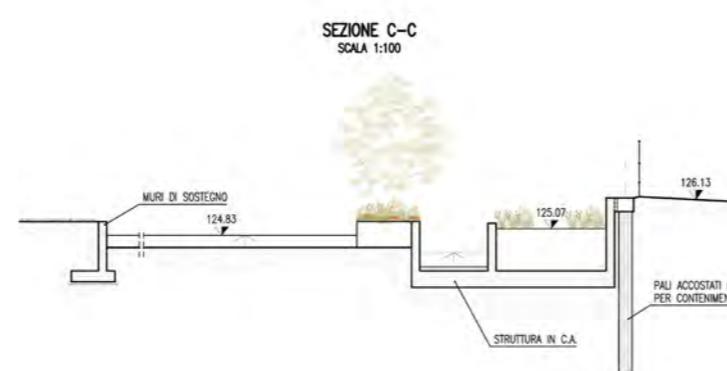
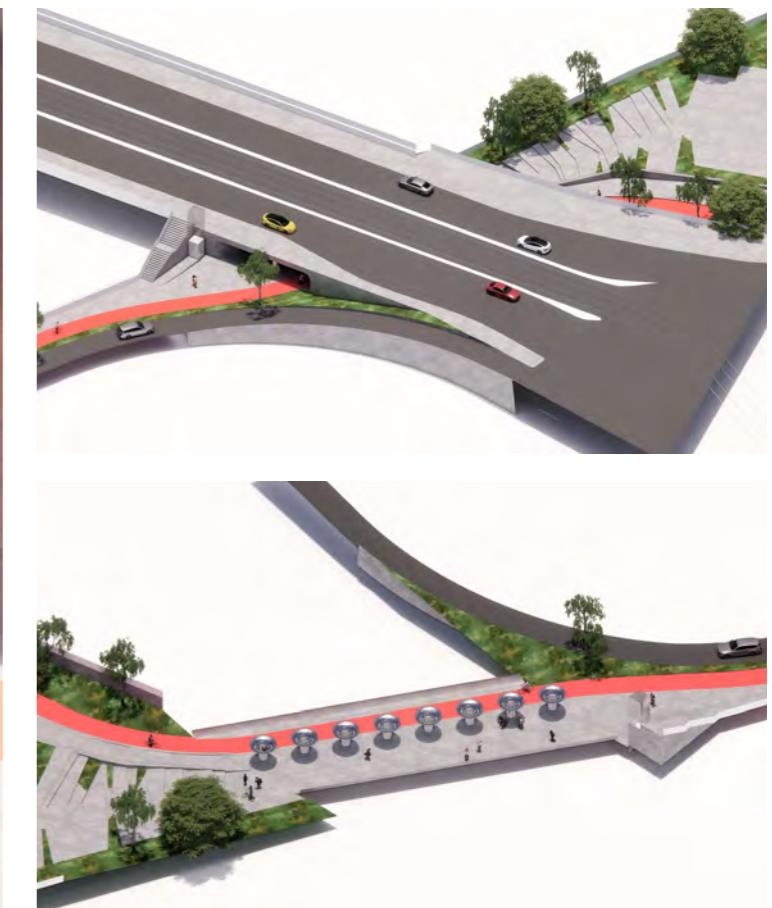
Size

- Underpass width: 12 m
- Underpass height: 3 m

Relevant aspects

Key entrance gate to the large Scalo Farini Masterplan and strategic connection point with the high-traffic pedestrian and cycling route along the Porta Nuova Garibaldi / Piazza Gae Aulenti axis.

Strong architectural appeal and attention to detail for an infrastructure-focused intervention. The architectural concept enhances not only mobility aspects but also recreational and social elements (reflective walls and ceilings, rounded walls serving as mini ramps for skateboarding and waveboarding).



Viability Portello - Gattamelata

Urban gallery

Location

Viale De Gasperi, via Gattamelata, Milan

Year

- 2006 - 2014

Client

Claudio Salini Grandi Lavori SpA

Area

Infrastructure

Activities

- Structural construction documents design, with seismic adaptation
-

Size

- Length of the road route: about 1.5 km
- 1 km of urban gallery
- 6 traffic lanes



Crema RFI station A restyling for travellers

Location

Crema RFI station along the Treviglio - Cremona line

Year

- 2020 - ongoing

Client

Minnucci Associati srl

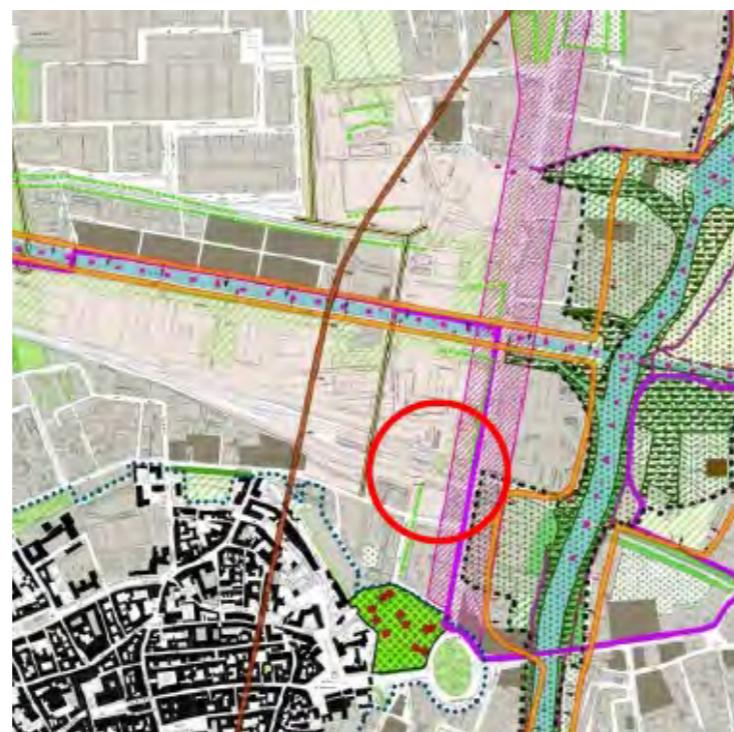
Area

Infrastructure

Activities

Support activities for the integrated developed and detailed design of the works necessary for the construction of:

- a station pedestrian underpass;
- adaptation and elevation of existing sidewalks;
- construction of new shelters;
- restyling of the passenger building.



Civitavecchia RFI station Renovation by the sea

Location

Civitavecchia RFI station

Year

- 2021 - ongoing

Client

Minnucci Associati srl

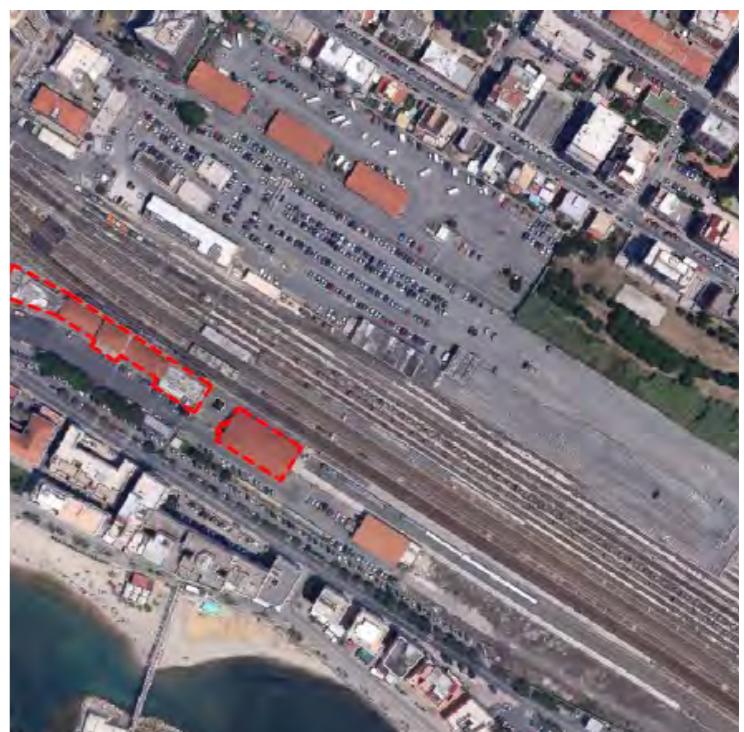
Area

Infrastructure

Activities

Restructuring of the Civitavecchia station, specifically:

- Assistance in the design of accessibility improvement works, extended up to the detailed design phase;
- Assistance in the design of the restyling of the passenger building, the goods warehouse, and the external square, extended up to the detailed design phase.



Brasilia Park

More space for pedestrian areas, bike lanes, and nature

Location

Iago Brasilia / via San Gimignano, Milan

Year

- 2022 - in corso

Client

SAMSTAVAL Srl

Area

Infrastructure

Activities

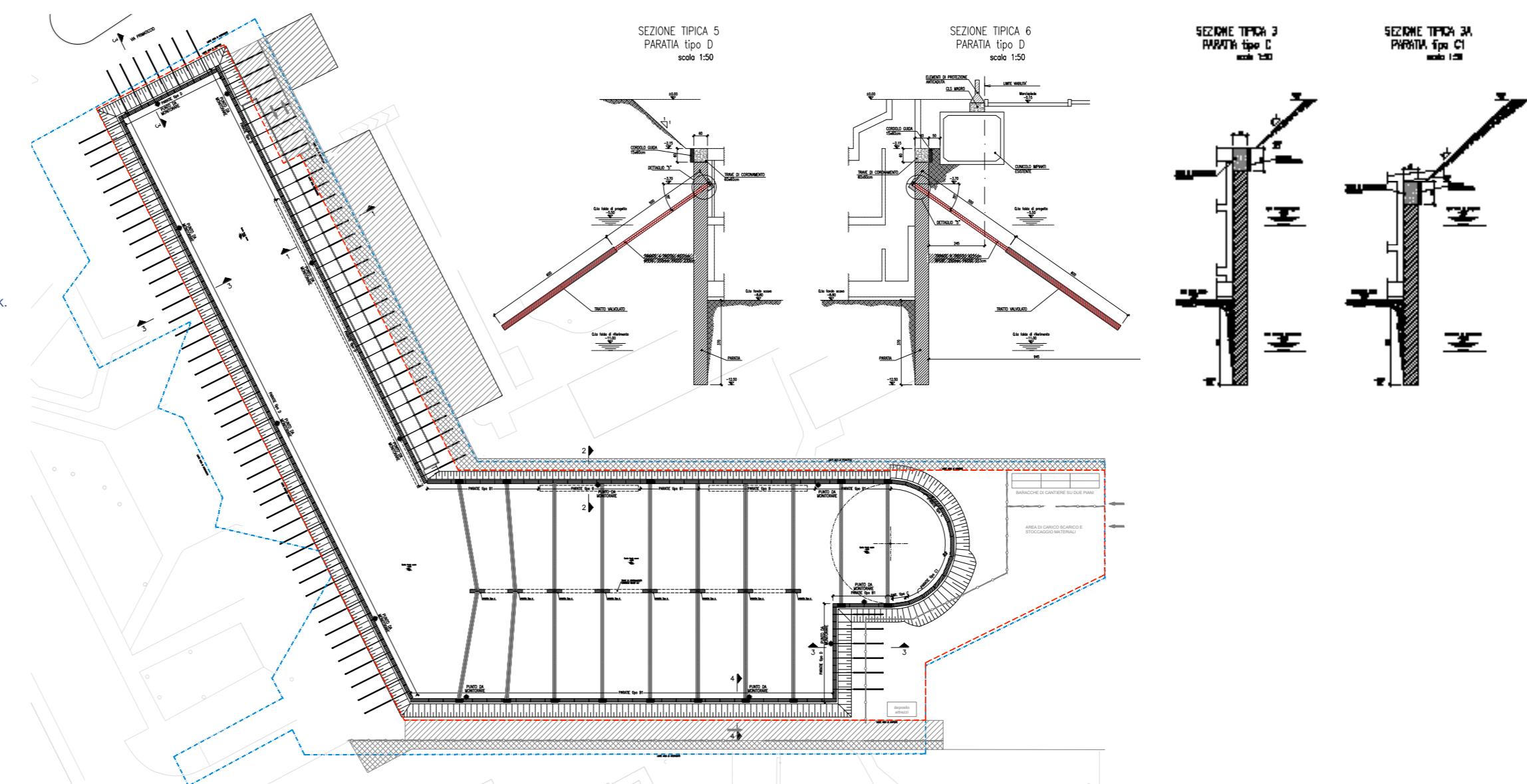
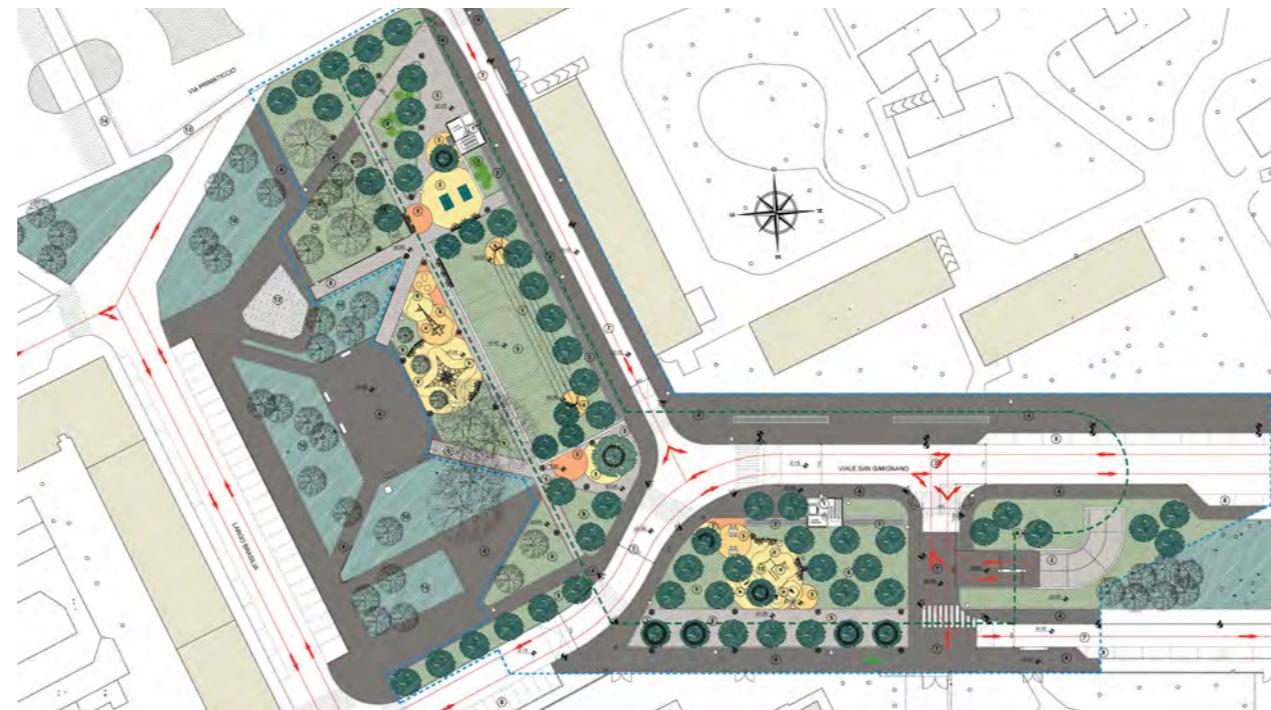
- Developed and detailed structural design of excavation works
- Site supervision for the excavation support structures
- Assistance to final structural certification

Size

- 2 underground levels
- 316 car parks

Relevant aspects

The identified area takes into account the specific needs of the residents in the area, the interchange with the public transportation network, and the dedicated sustainable mobility network. With structured parking, it is possible to free streets, squares, and sidewalks from cars, increasing pedestrian areas, green spaces, bike lanes, and bicycle parking.



Scalabrini Park

*The new underground parking
in the Lorenteggio area*

Location

Iago Scalabrini, Milan

Year

- 2022 - ongoing

Client

VERDE & BOX Società Cooperativa

Area

Infrastructure

Activities

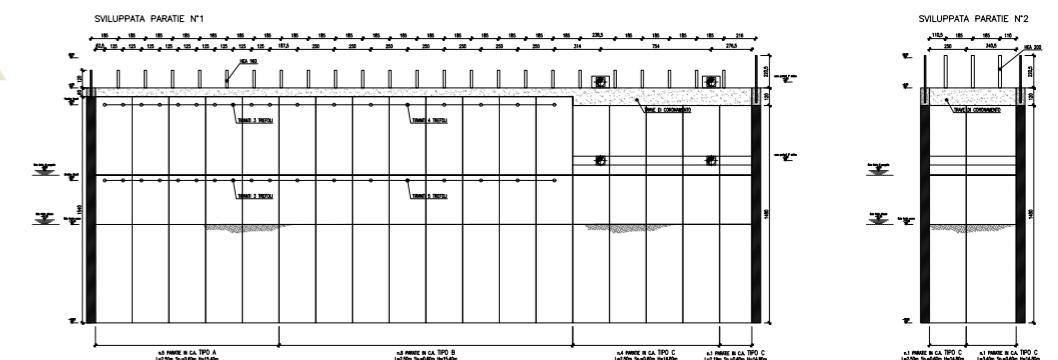
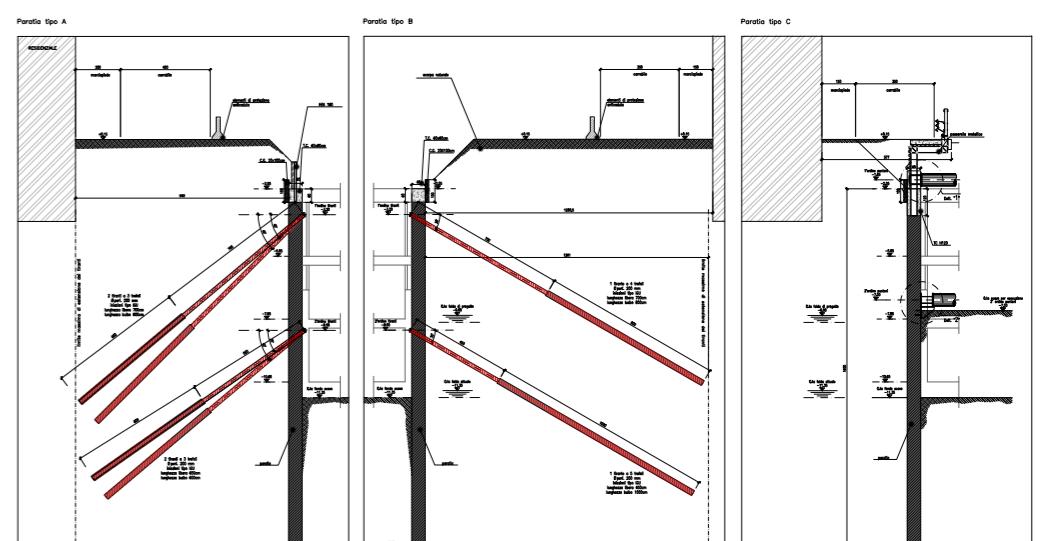
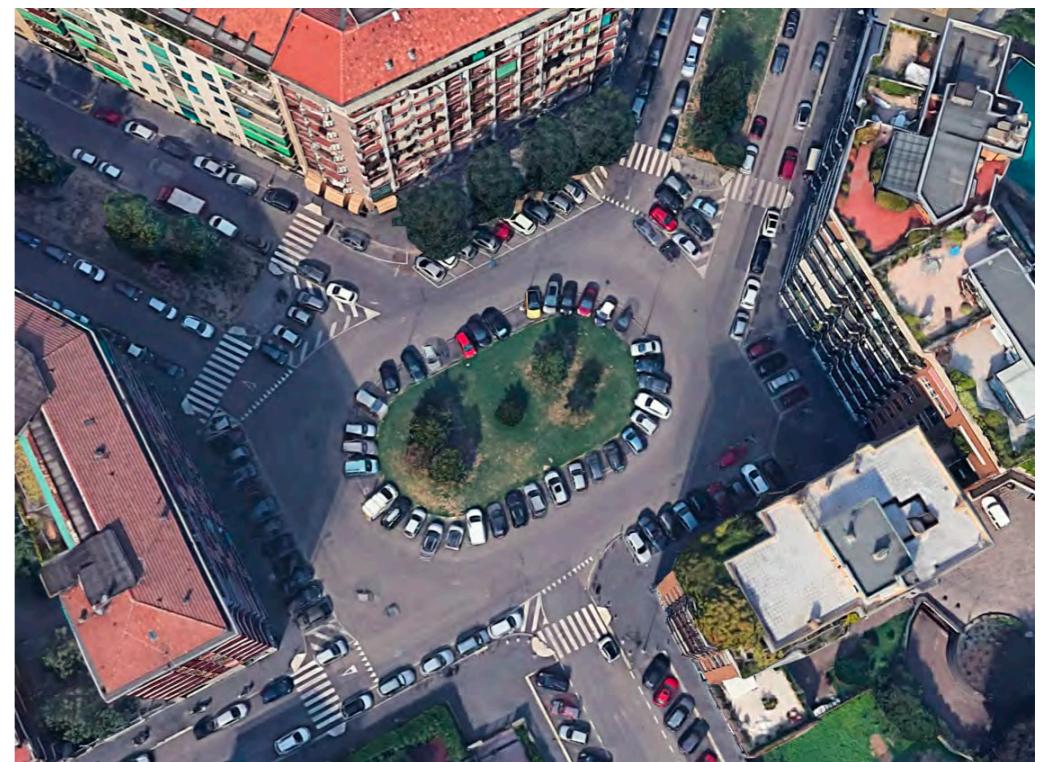
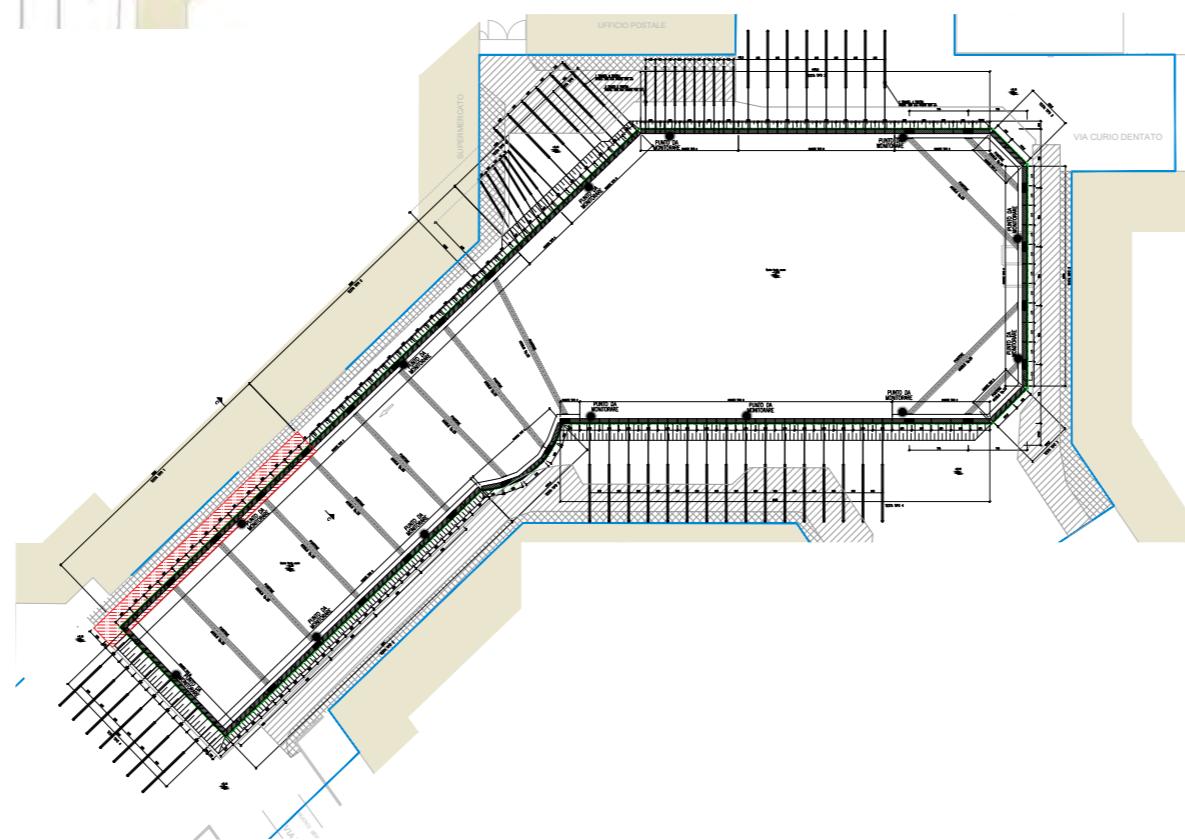
- Developed and detailed structural design of excavation works
- Site supervision for the excavation support structures
- Assistance to final structural certification

Size

- 3 underground levels plus a mezzanine floor
- 252 single and 33 double parking spaces, for a total of 318 parking spots
- Covered area of the parking lot: 3,556.96 sqm
- Gross volume: 33,079.73 cubic meters

Relevant aspects

Strategic project in the Lorenteggio-Giambellino area, already subject to numerous urban development interventions (M4 Subway) with related surface arrangements that include the creation of large equipped public spaces and new green areas.



Novelli Park

From a crossroads to a livable and usable square

Location

Piazza Novelli, Milan

Year

- 2003 - 2011

Client

Quadro Curzio SpA – ICS Grandi Lavori SpA

Area

Infrastructure

Activities

- Surface arrangement design
- Road design
- Resolution of underground services interference
- Architectural project
- Structural and geotechnical design
- Plant design
- Construction supervision "DL"
- Safety coordination

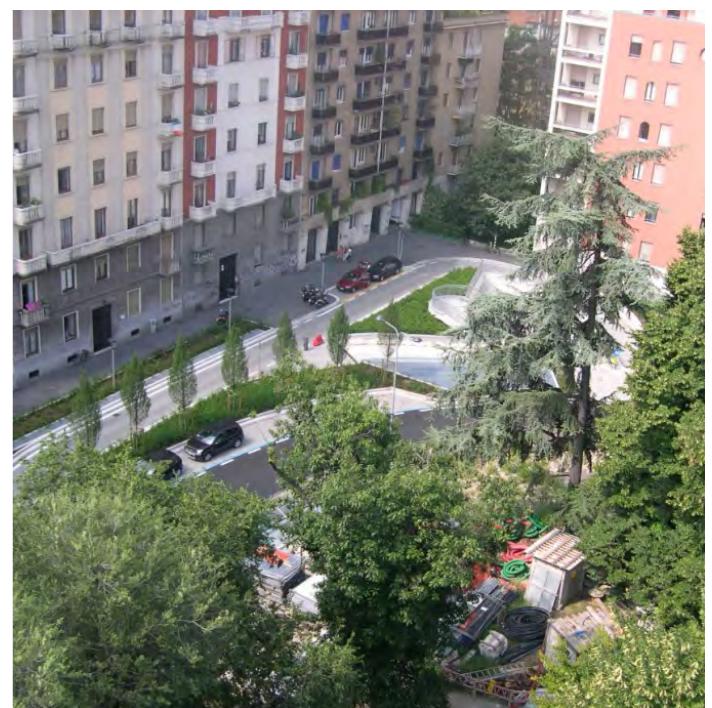
Size

- 4 underground floors
- 483 parking spaces

Relevant aspects

Optimization of design results in terms of:

- Construction time and cost, in relation to the number of garages or parking spaces created
- Functionality, usability and technical and aesthetic value of the underground building
- Durability of the work and optimization of management and maintenance costs
- Insertion of the garage in the urban context
- Qualification of the surface area in accordance to the Municipality's guidelines related to car, cycle and pedestrian traffic, public green areas, and street furniture



Zarotto Park

*Parking lot and pedestrian area
in Porta Venezia*

Location

Via Zarotto, Milan

Year

- 2017 - 2018

Client

Cooperativa Silos Buenos Aires

Area

Infrastructure

Activities

- Developed and detailed structural design
- Site supervision for the excavation support structures
- Assistance to final structural certification

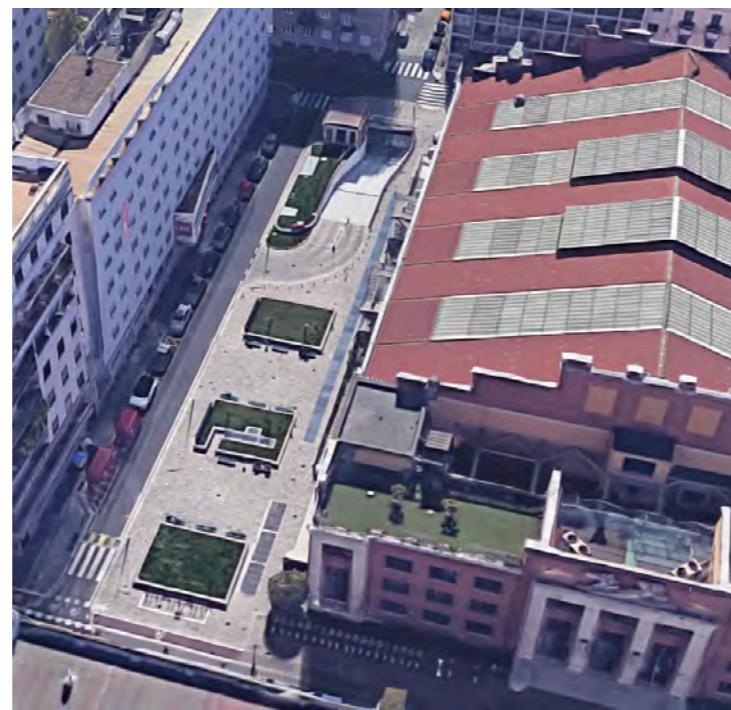
Size

- 3 piani interrati
- 143 autovetture

Relevant aspects

The space freed from cars on the surface has allowed for the redevelopment of the area, including the creation of raised flowerbeds, benches, and two bike racks.

Two large narrative steel plaques have been installed, dedicated to Engineer Luigi Lorenzo Secchi and architect Luigi Moretti, respectively designers of the Cozzi Swimming Pool and the building now occupied by the Hotel Ibis, formerly the Casa Albergo, adjacent to the parking lot.



Da Forlì Park

*A traffic island turned into
green oasis*

Location

V.le Caterina da Forlì, Milan

Year

- 1999 - 2006

Client

Quadro Curzio SpA – ICS Grandi Lavori SpA

Area

Infrastructure

Activities

- Surface arrangement design
- Road design
- Resolution of underground services interference
- Architectural project
- Structural and geotechnical design
- Plant design
- Construction supervision "DL"
- Safety coordination

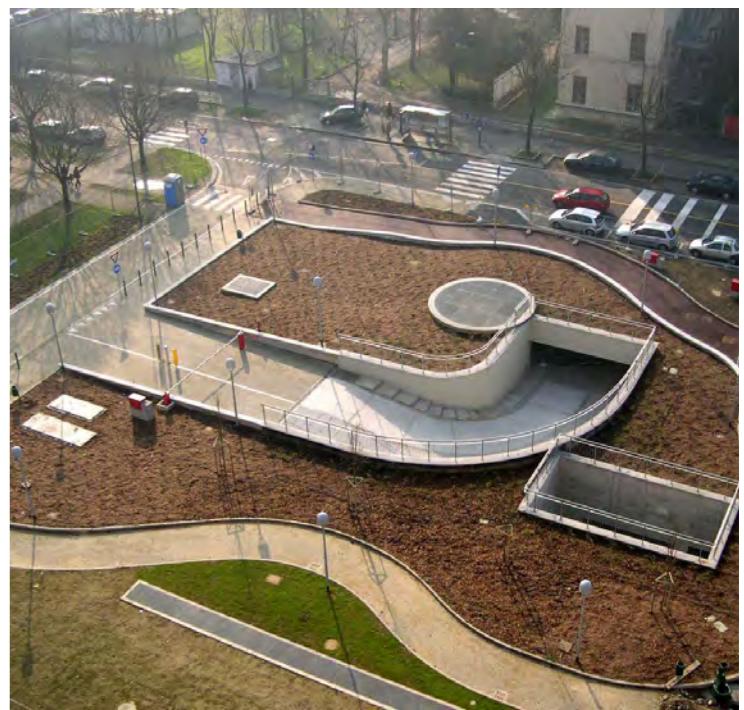
Size

- 3 underground floors
- 483 parking spaces

Relevant aspects

The road layout of access ramps to the structures and, more generally, the unified arrangement of the surface area designated for equipped public greenery.

Complex safety coordination activity regarding both temporary road phases and monitoring operations for structural interdependences.



Loreto Park

A construction site along a major traffic artery

Location

Piazza Loreto, Milan

Year

- 1999 - 2006

Client

Quadro Curzio SpA

Area

Infrastructure

Activities

- Surface arrangement design
- Road design
- Resolution of underground services interference
- Architectural project
- Structural and geotechnical design
- Plant design
- Construction supervision "DL"
- Safety coordination

Size

- 4 underground floors
- 329 parking spaces

Relevant aspects

The structure was built using a sequence of 10 phases of temporary road arrangements, which heavily influenced the structures and construction method

The resolution of interference with the utilities also occurred in stages. The construction of a transverse steel structure to the structure, supporting a polyphore with 37 holes crossing the entire Via Costa, or a structure supporting cables of great strategic importance, also occurred in phases.



Accursio Park

A project centered around the grand cedar

Location

Piazzale Accursio, Milan

Year

- 2002 - 2011

Client

Quadro Curzio SpA – ICS Grandi Lavori SpA

Area

Infrastructure

Activities

- Surface arrangement design
- Road design
- Resolution of underground services interference
- Architectural project
- Structural and geotechnical design
- Plant design
- Construction supervision "DL"
- Safety coordination

Size

- 4.076 smq of surface
- 440 parking spaces

Relevant aspects

The surface green project was aimed at preserving a splendid specimen of Cedrus Atlantica, of great aesthetic and environmental value and particularly beloved by the residents of the area. Therefore, functional choices for parking were made around the Cedar, and the intervention's landscape was built on it.

CEAS has designed a completely natural ventilation, in order to contain, on the one hand, the maintenance costs of the underground parking garage, and on the other hand, to provide a source of natural lighting and ventilation.



Porta Nuova-Garibaldi UG interference

A new urban passage

Location

Piazza Gae Aulenti, Milan

Year

- 2008 - 2012

Client

Hines Italia SGR SpA

Area

Infrastructure

Activities

- Structural construction supervision "DL"
- Verification and monitoring

Project cost

n/a

Size

- Height of Tower A: 231 m
- Floors width in Tower C: 1200 sqm

Lead engineers

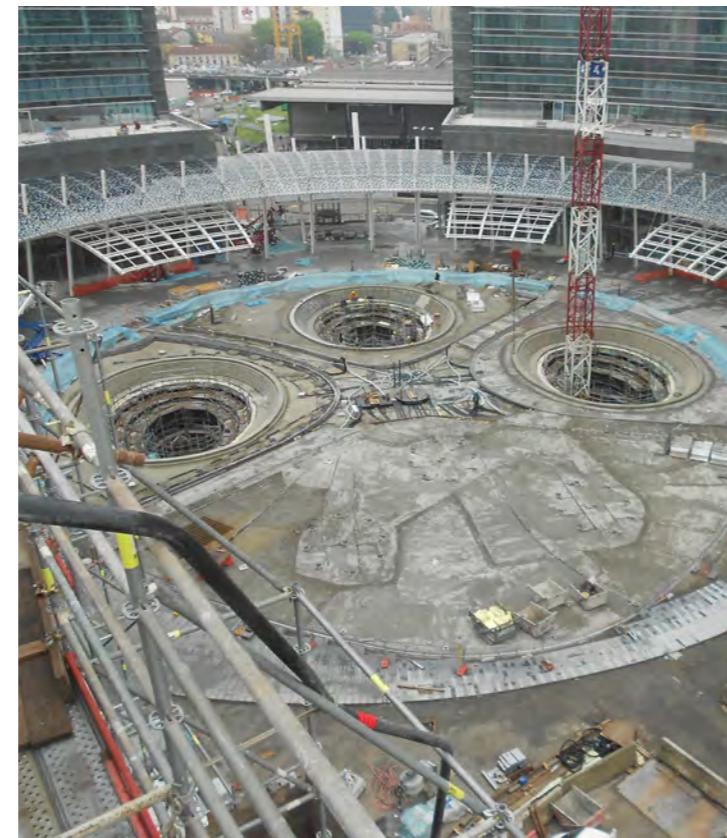
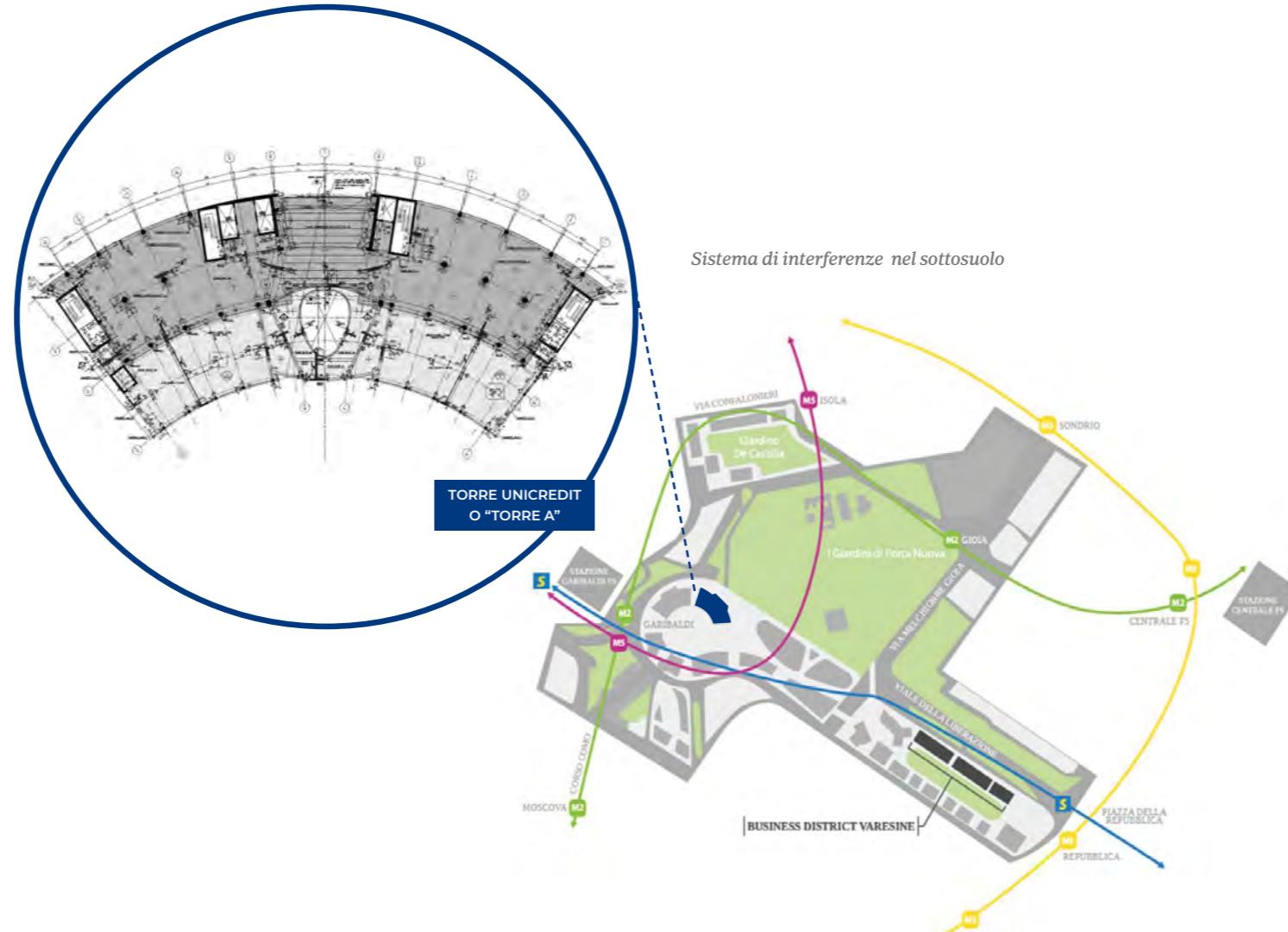
- Ing. Bruno Becci
- Ing. Giovanni Canetta
- Ing. Luca Rossini

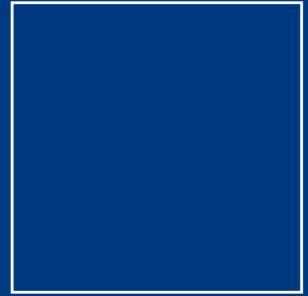
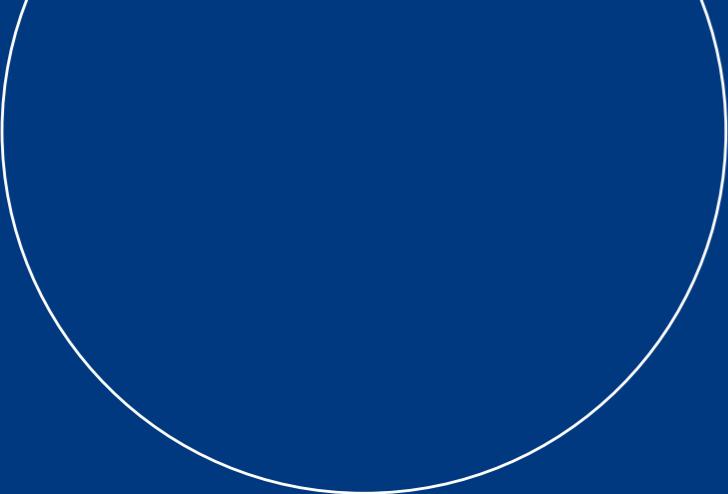
Relevant aspects

Tower C "bridges" the Passante Ferroviario tunnels (already designed by CEAS in the 1990s) with a sophisticated foundation system that transfers the weight of the tower to a level lower than that of the tunnels.

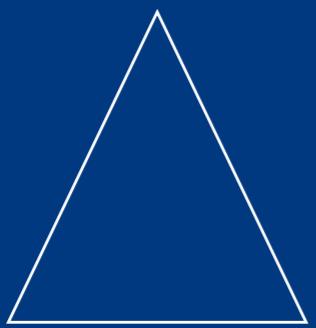
CEAS has carried out a sophisticated verification task during construction and monitoring of these structures, which were originally not designed for such a high load as that imposed by Tower C.

Tower A, also part of the Unicredit complex, with its height of 231 m, is the tallest building in Italy.





Industrial



Terminale Adriatic LNG

Technology in the Adriatic Sea

Location

Mare Adriatico

Year

- 2015 - ongoing

Client

Adriatic LNG

Area

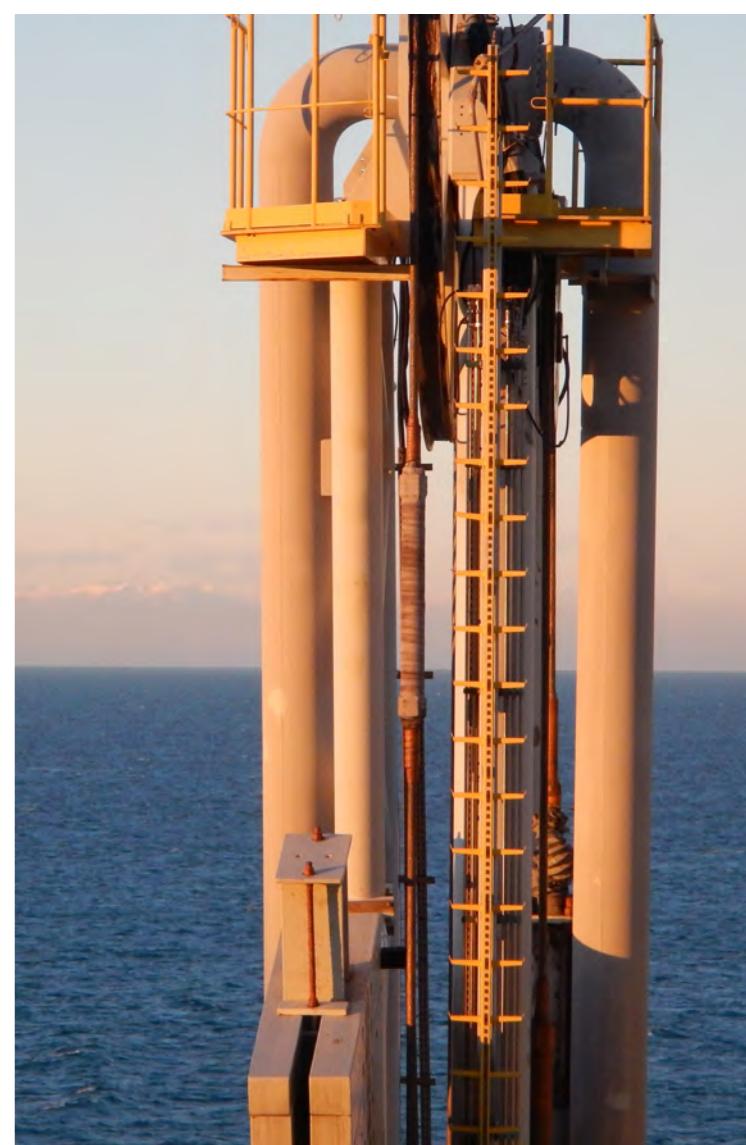
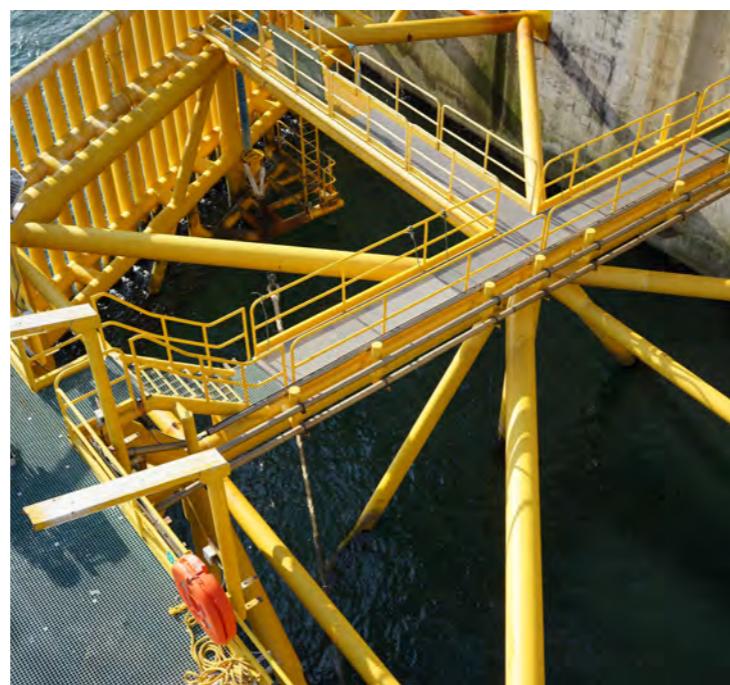
Industrial

Activities performed

- Maintenance and continuous implementation of structural integrity programs for structures
- Data analysis of monitoring systems
- Preparation of the inspection program and periodic inspection plans of the facilities
- Issuing of the five-year final structural certification
- Support during seismic and extraordinary events

Relevant aspects

- Complex and unique work of its kind, made with different technologies such as prestressed reinforced concrete, steel, carbon and alloy steels
- Highly aggressive environment due to the marine atmosphere and the presence of cryogenic liquids at a temperature of -165 °C
- Due to the complexity and potential danger of the offshore marine environment, every activity involving the terminal is governed by strict safety protocols



Fimac

Expansion of production site

Location

Senago (MI)

Year

- 2019 - ongoing

Client

Fimac Spa

Area

Industrial

Activities performed

- Integrated design
- Safety design coordination
- Safety inspection coordination
- General and structural construction supervision "DL"

Project cost

€ 1.800.000,00 (est.)

Size

- Total SL: 5.872 sqm
- SL industrial and productive activities: 4.969 sqm
- SL offices and complementary activities: 903 sqm

Lead engineers

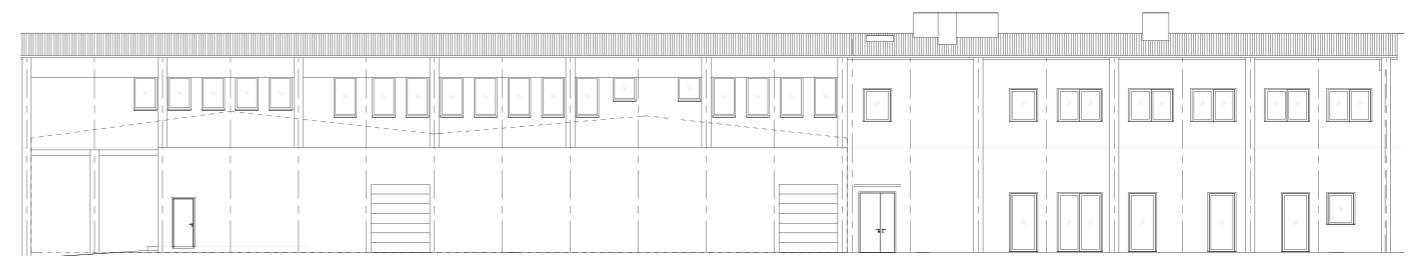
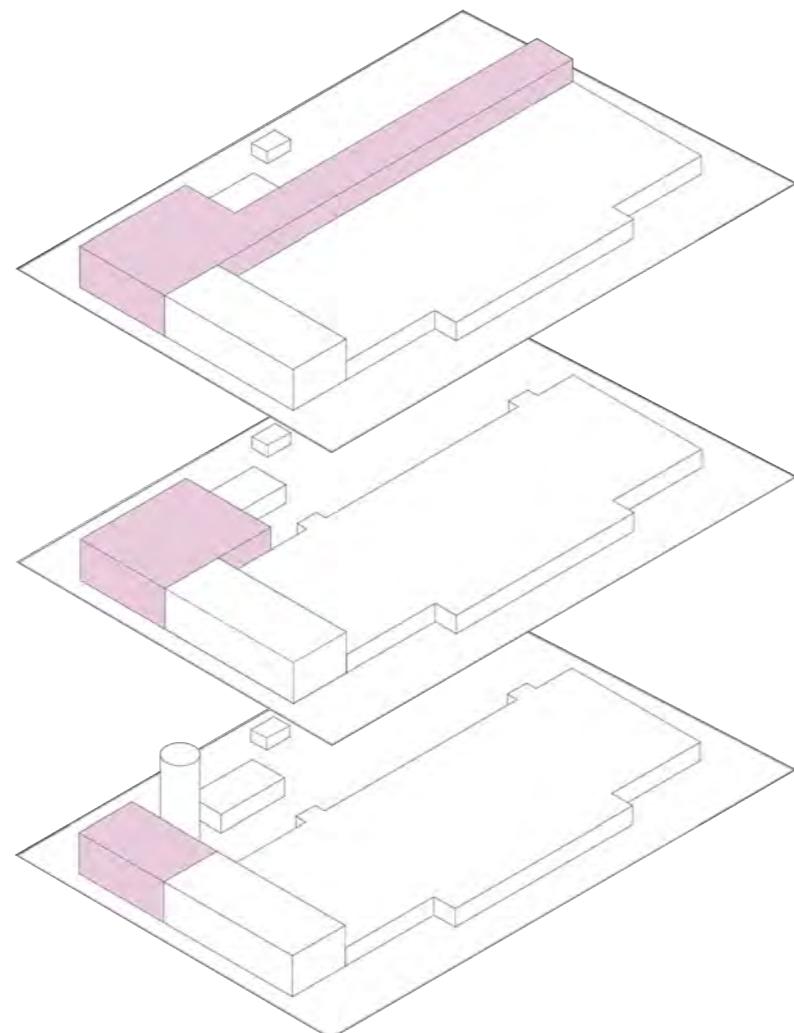
- Ing. Lorenzo Mariani
- Arch. Anna Legnani
- Arch. Barbara Palazzotto

Relevant aspects

- Careful planning of the construction site phases to allow the extension of the building while keeping the company headquarters fully active and operational

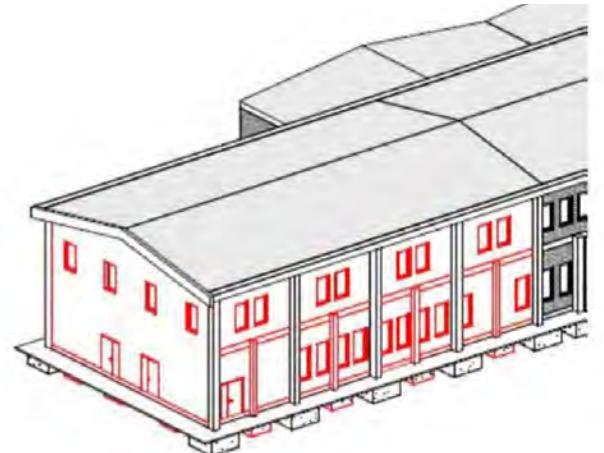
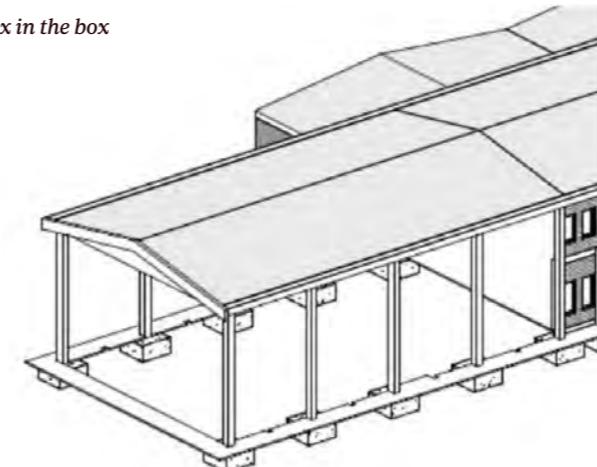


expansion phases



prospetto ovest / est

box in the box



Gioia Tauro LNG Terminal

The Mediterranean LNG hub

Location

Gioia Tauro, Reggio Calabria, Italy

Year

- 2014 - 2015

Client

Tractebel Engineering Spa

Area

Industrial

Activities performed

- Analysis and detailed structural modeling of a tank for the storage of Liquefied Natural Gas at cryo temperatures with double containment and on seismic isolators
- Developed structural design
- Adaptation of the project for compliance with the Italian NTC'08 standards

Size

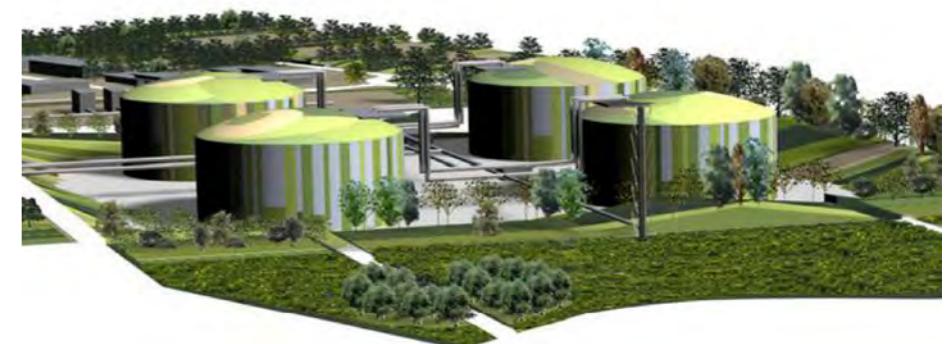
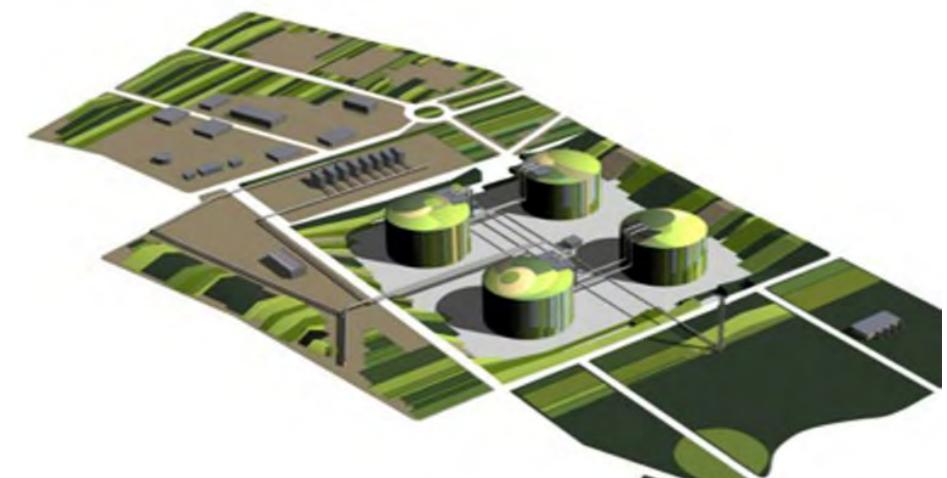
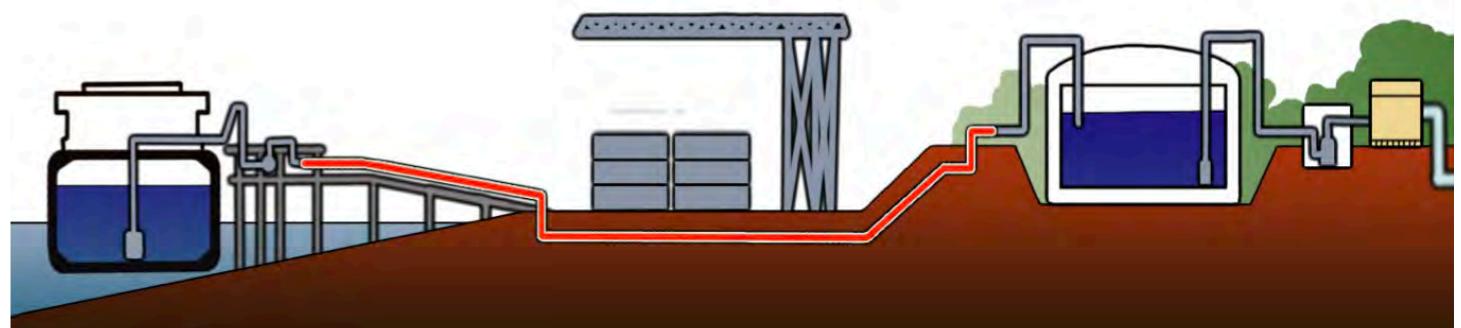
- total unit capacity of the tank 160.000 m³
- 47 hectares of extension in the municipalities of Gioia Tauro, San Ferdinando and Rosarno
- 7 km of pipeline connection to the Snam network
- 12 billion m³ of LNG processed per year

Project cost

1.500.000.000,00 € (est.)

Relevant aspects

- Strategic location of the Gioia Tauro plain as a LNG reception facility from the Mediterranean, but also from Africa and the Middle East
- Potential ideal refueling point for LNG used as fuel by ships and trucks
- Recovery of waste cold energy released from the Liquefied Natural Gas regasification process and used for the development of industrial activities in the surrounding area



Calusco Project

Performance and sustainability

Location

Calusco d'Adda (BG)

Year

- 2003 - 2004

Client

Italcementi S.p.A., CTG, Kobe Steel LTD

Area

Industrial

Activities performed

- Geotechnical characterization of the site
- Construction documents design of reinforced concrete and steel structures

Relevant aspects

- Complex intervention for an important manufacturing area in the country
- Complex structural works realised with the combination of different construction strategies
- Use of innovative technologies, especially for self-compacting concrete castings



Vassiliko Cement

Civil works of the new kiln line

Location

Nicosia, Cipro

Year

- 2009 - 2010

Client

Vassiliko Cement – PPA Associates

Area

Industrial

Activities performed

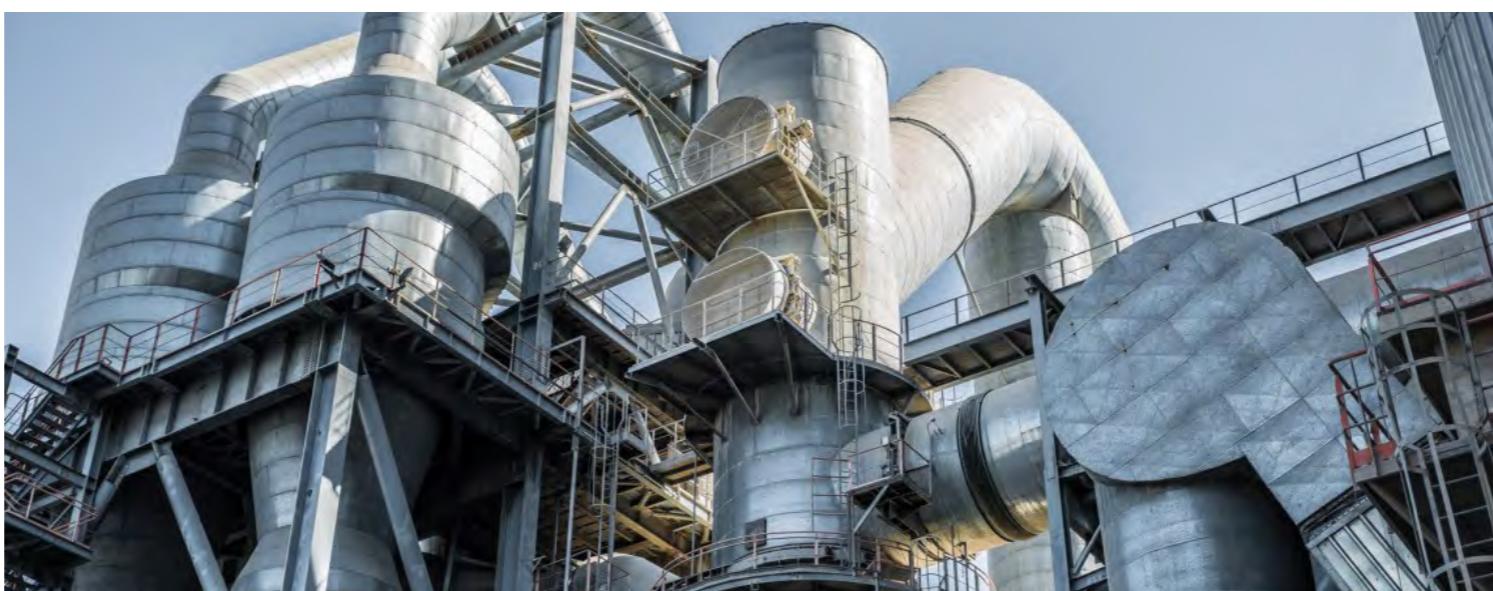
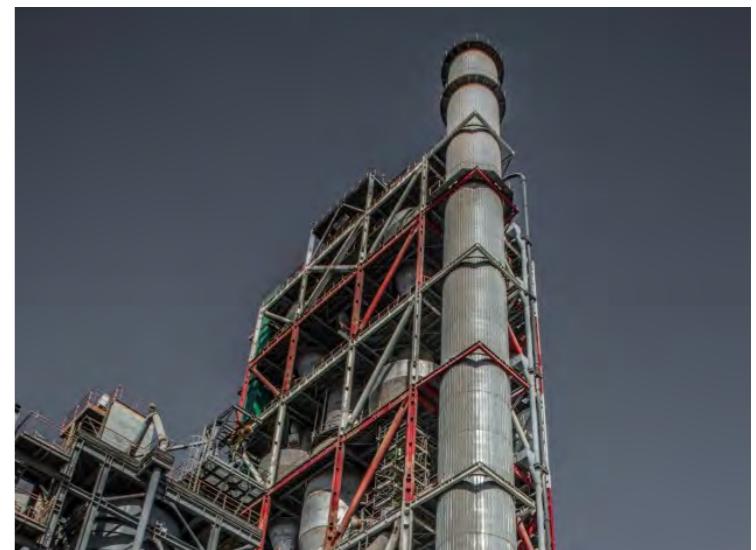
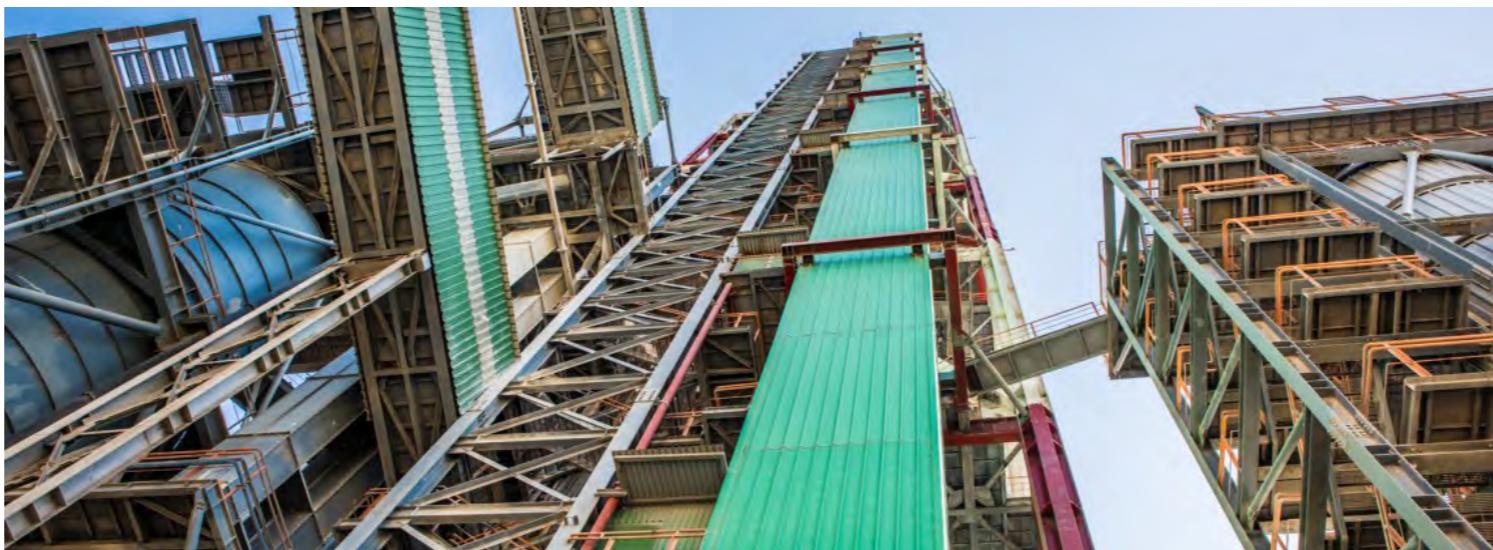
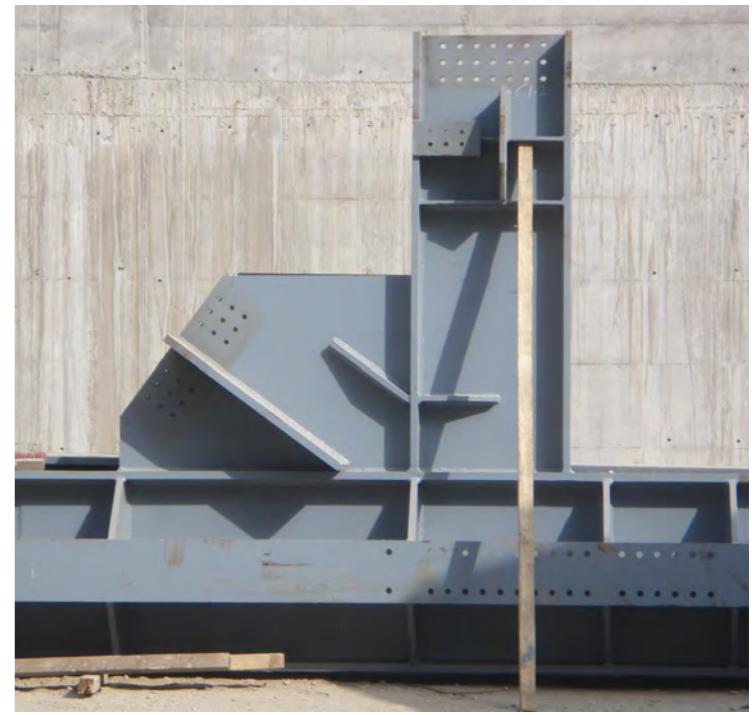
- Detailed design of reinforced concrete and steel structures

Structural works cost

€ 16.500.000,00

Relevant aspects

- A complex project as part of an important industrial investment for the Cypriot nation
- Structural design with Eurocodes in a high intensity seismic area
- The structures withstood without damage a nearby explosion that destroyed other industrial sites



Tenaris Dalmine

For a more sustainable future

Location

Dalmine (BG)

Year

- 2005 - 2006

Client

Tenaris Dalmine

Area

Industrial

Activities performed

- Geotechnical design
- Structural design
- Undergrounds coordination
- Structural construction supervision "DL"

Relevant aspects

- Particularly careful study of possible interferences with the underground systems due to the presence of old foundations under those newly built
- The gantry and turbines' bases design was carried out with particular attention to the dynamic performance during operation
- Construction design was developed for the Cooling Tower. A second large tank (about 60x20m) subject to severe thermal operating conditions was then built, whose behaviour was previously investigated through finite element simulations
- The choice of mix design was crucial to limit concrete cracking. During the casting phase the material used was constantly checked to obtain the required consistency



Cementeria Matera

Efficiency at the forefront

Location

Matera

Year

- 2008 - 2009

Client

Italcementi S.p.A./CTG

Area

Industrial

Activities performed

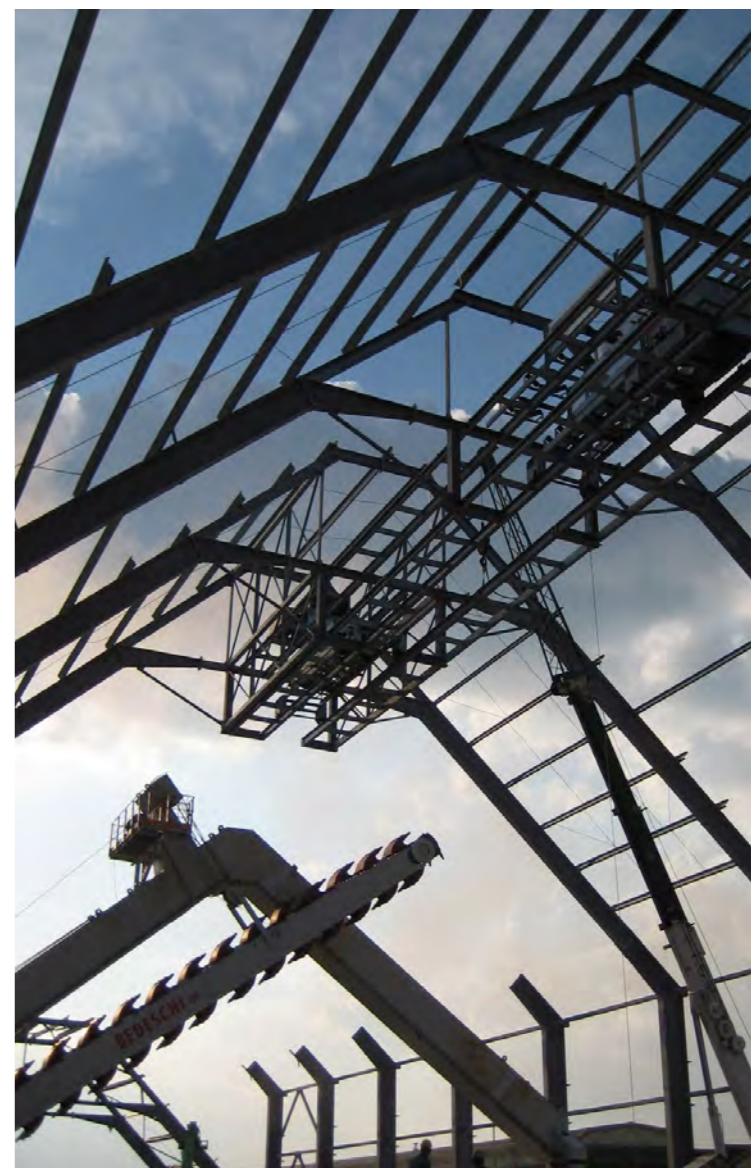
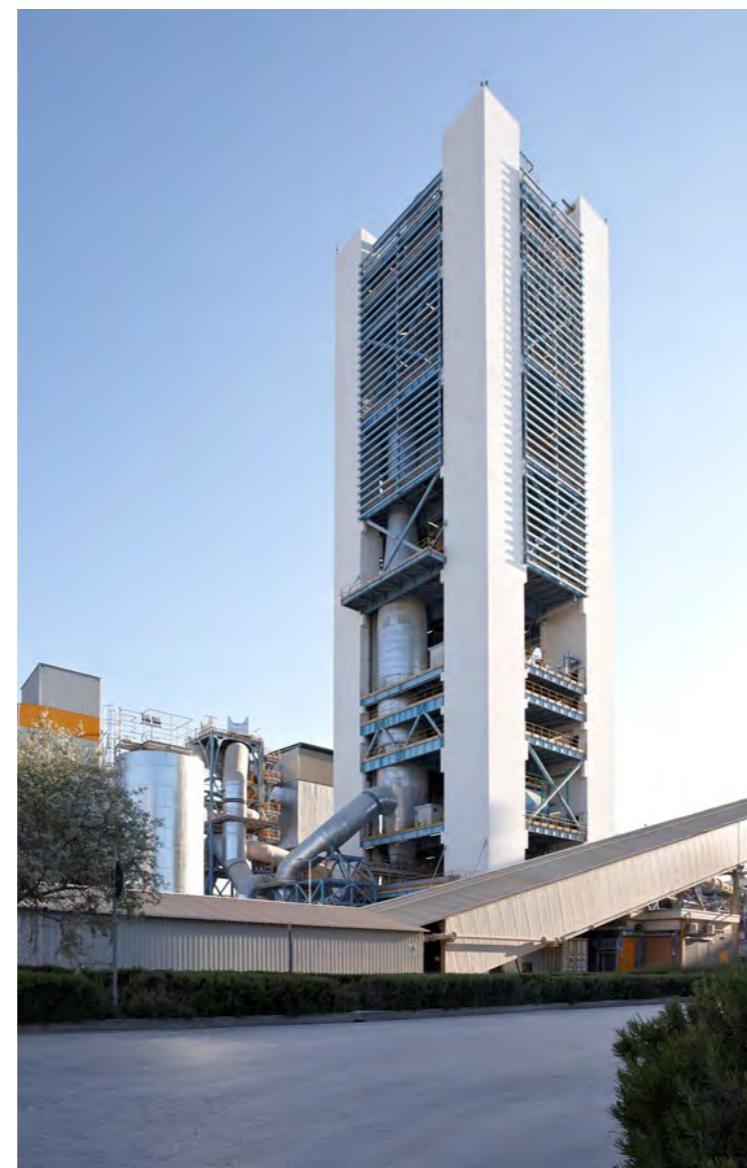
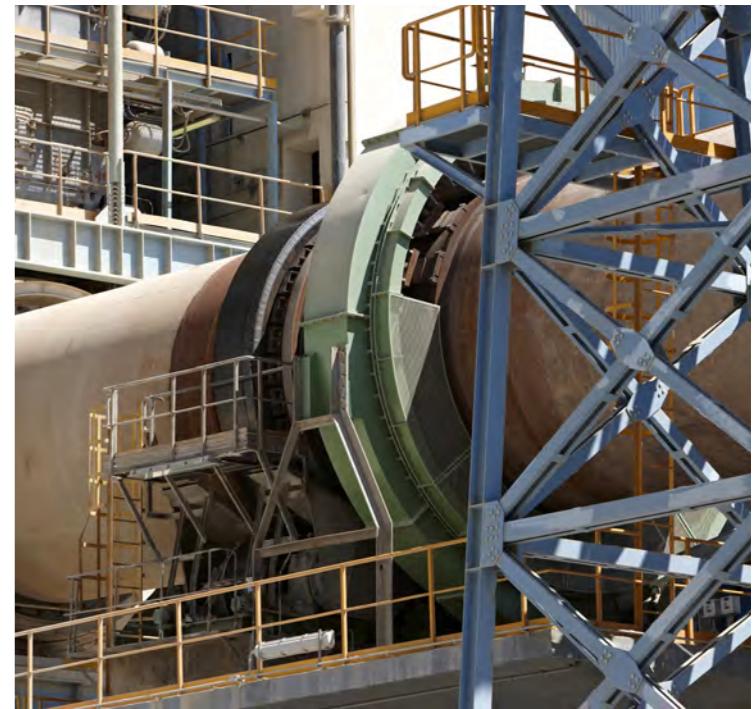
- Geotechnical characterization of the site
- Detailed design of the preheating tower foundation structures
- Detailed design of the reinforced concrete cores
- Detailed design of floor metal structures

Structural works cost

€ 8.500.000,00

Relevant aspects

- Complex structural works realised with the combination of different construction strategies
- Use of innovative technologies, especially for self-compacting concrete castings
- Study of particular construction strategies in coordination with the Company executing the operational construction phases (use of rampant formwork, optimization of reinforcement cuts).
- Metal decks assembly phases divided into sub-assemblies



Devnya Cement

An innovative cement plant

Location

Devnya, Bulgaria

Year

- 2013 - 2014

Client

CBMI Construction Co. Ltd – SINOMA

Area

Industrial

Activities performed

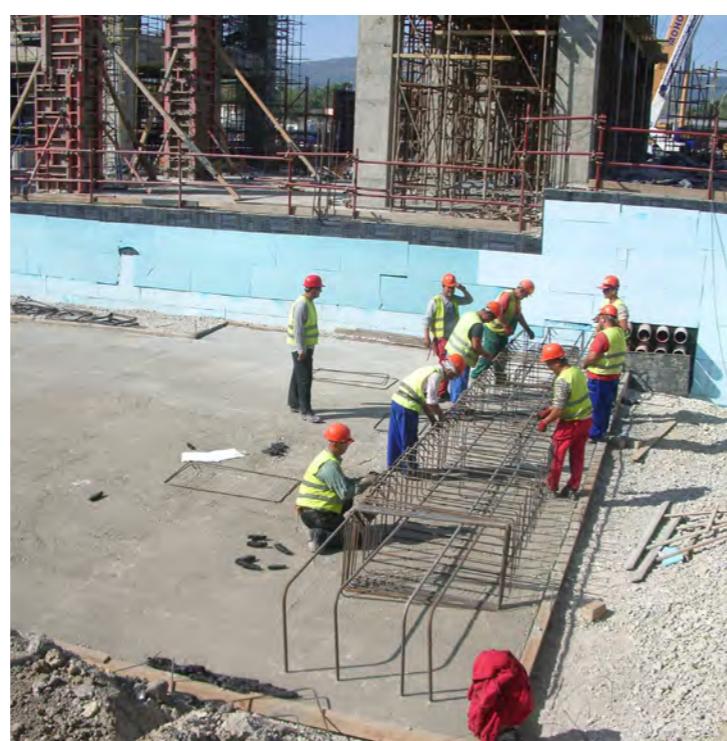
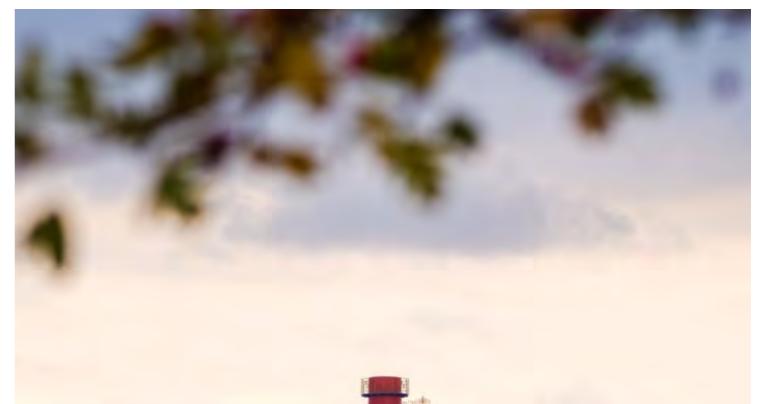
- Structural detailed design

Structural works cost

€ 5.000.000,00

Relevant aspects

- Strong wind and seismic actions on very tall structures
- Complex plant layout strongly constraining the structures
- Strong need for integration of the Eurocode with local standards



San Giusto Wind Farm

Clean energy

Location

San Giusto, Lucera, Foggia

Year

- 2011 - 2012

Client

SEA (RePower group)

Area

Industrial

Activities performed

- Detailed design of turbines and electrical substation foundations
- Construction site and service traffic design
- Design of the routes of the new cable duct between towers
- On-site high surveillance

Size

- 13 turbines of 2 MW
- 29 km of cable duct

Project

The wind farm consists of 13 - 2 MW turbines for a total of 26 MW. CEAS has designed the local road system, service roads and the platforms for the parking of the cranes, the entire cable duct of about 29 km, and the building used as electrical substation, in which a low and medium voltage switchboards and a transformer are housed.

Relevant aspects

Structural design of the foundations in compliance with the requirements in terms of deformations imposed by the supplier of the turbines.



Campolattaro

The largest water plant in Southern Italy

Location

Campolattaro, Benevento, Italy

Year

- 2009 - 2011

Client

REC - Sea (RePower group)

Area

Industrial

Activities performed

- Developed structural and geotechnical design
- Geological, hydrogeological and hydraulic consultancy

Project cost

550.000.000,00 € (est.)

Project

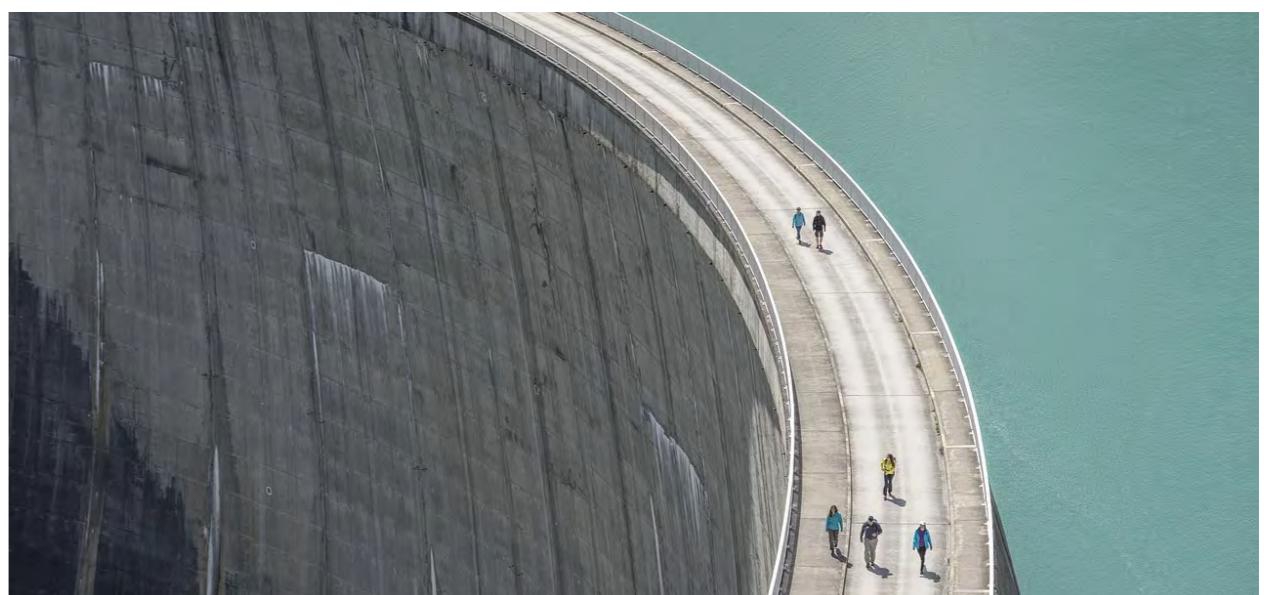
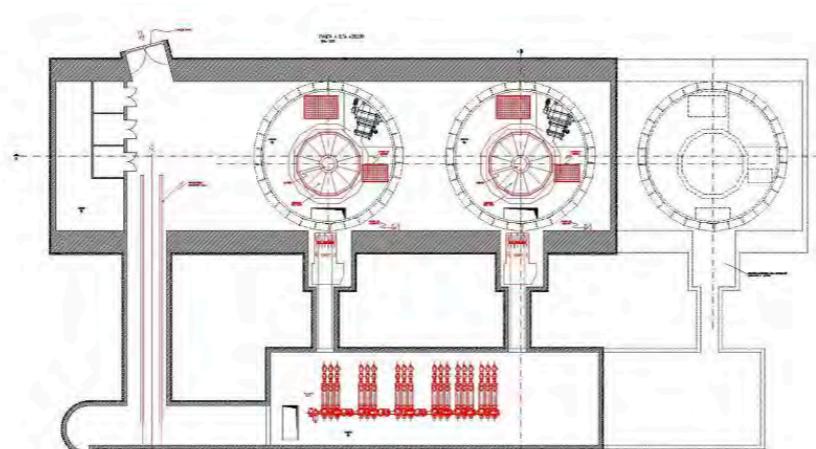
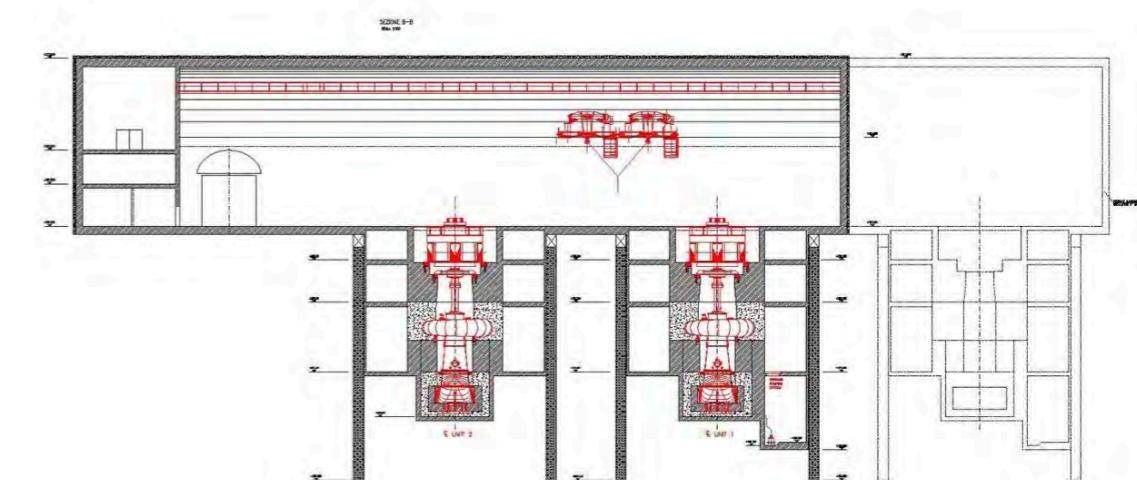
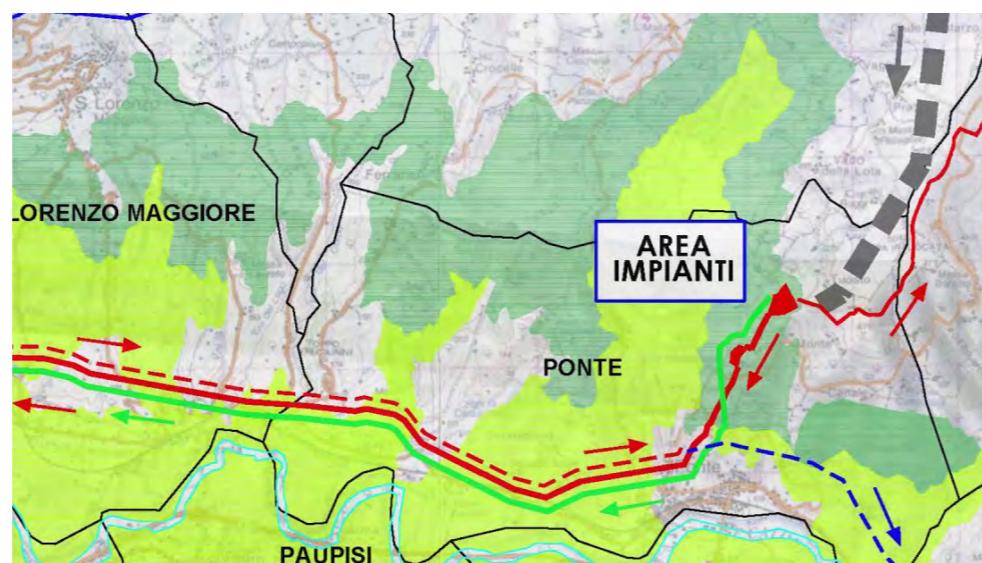
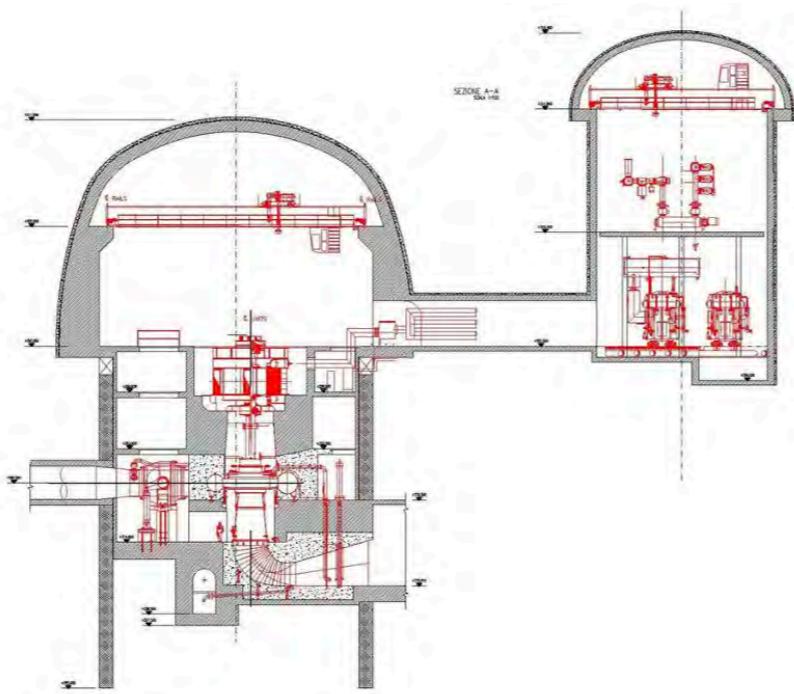
Structural, geotechnical and road design for the authorization of a 500 Mw underground hydroelectric regulation plant.

Civil works for the hydroelectric plant, including the cavern for the power plant, two surge tanks, a hydraulic pressure tunnel and an outlet tunnel, intake and return works for the upper and lower basins, and 4 access tunnels.

Relevant aspects

Structural and geotechnical design, including over 4 km of road and water tunnels, caverns for the power station, transformers, piezometric wells.

The lower reservoir consisting of the artificial reservoir of Campolattaro is connected via a system of tunnels and pressurized wells to the upstream accumulation reservoir consisting of a natural depression with a capacity of 7 million m³.



IKEA Stores

Quality, design and functionality

Location

Italia, 14 stores e 6 warehouses

Year

2015 - 2017

Client

IKEA Italia Property srl

Area

Commercial / Industrial

Activities performed

- Verification of the structural conditions of all commercial buildings and their warehouses
- The analysis covered 14 stores and 6 warehouses located throughout the Italian territory

Relevant aspects

- Intervention within the conversion of an important real estate asset, aimed at giving indications of the restoration interventions needed
- Contribution to the improvement of the maintenance plans of a multinational company
- Advice given to IKEA technicians on the ideal construction standards of the new stores



Highlighted problems

IKEA has launched a program to check the structural conditions of all commercial buildings and their warehouses. CEAS was asked to carry out the verifications in 14 stores and 6 warehouses.

The following pathologies were found:

- Presence of injuries.
- Detachment of concrete cover and corroded reinforcement.
- Incorrect execution of the joints.
- Metal carpentry with deteriorated surface protection or incomplete joints.

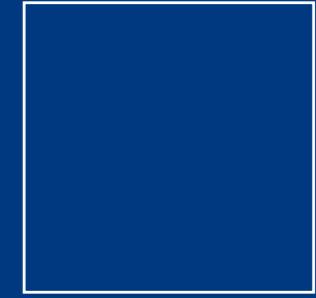
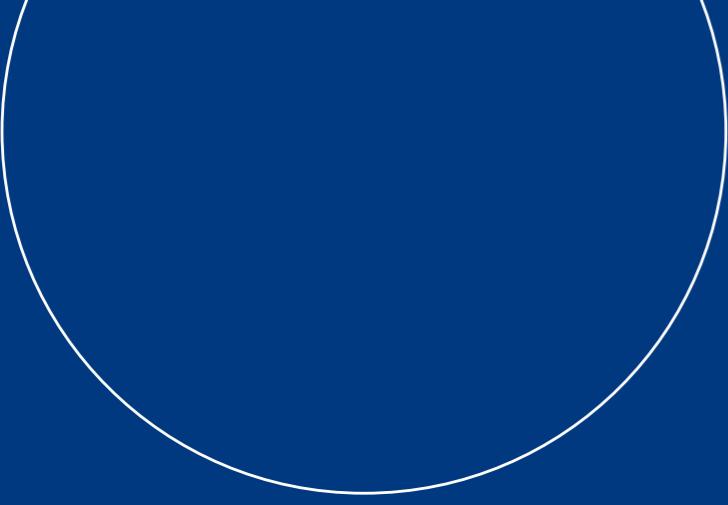
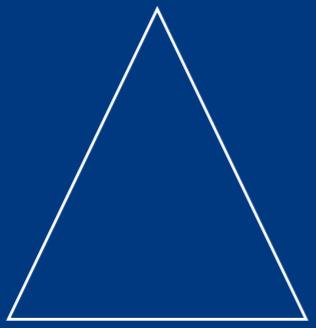


Size

	floors	volume	volume		floors	volume	volume
Ancona	3 piani	198.315 mc	26.625 sqm	Firenze warehouse	1 piano	43.558 mc	4.240 sqm
Bari	2 piani	173.299 mc	25.301 sqm	Genova Store	3 negli uffici		
Bologna Store	2 piani	128.596 mc	20.220 sqm	Genova warehouse	3 piani	140.400 mc	17.360 sqm
Bologna warehouse	1 piano	54.756 mc	5.900 sqm	Napoli	2 piani	234.987 mc	34.138 sqm
	3 negli uffici			Parma	3 piani	508.166 mc	33.432 sqm
Carugate Store	3 piani	477.603 mc	37.905 sqm	Rimini	3 piani	279.000 mc	34.365 sqm
Carugate Park Deck	5 piani	49.228 mc	16.975 sqm	Salerno	3 piani	250.994 mc	31.118 sqm
Catania	2 piani	339.020 mc	30.820 sqm	Villesse	3 piani	511.422 mc	33.869 sqm
Firenze Store	2 livelli FT + 1 interrato	166.020 mc	27.334 sqm				



Logistics



Amazon

Customer obsession

Location

Roncade (TV)

Year

- 2021 - ongoing

Final client

Amazon

Client

Jacobs Italia Spa

Area

Logistics

Activities performed

Developed and detailed structural design

Project cost

€ 100.000.000,00 (est.)

Size

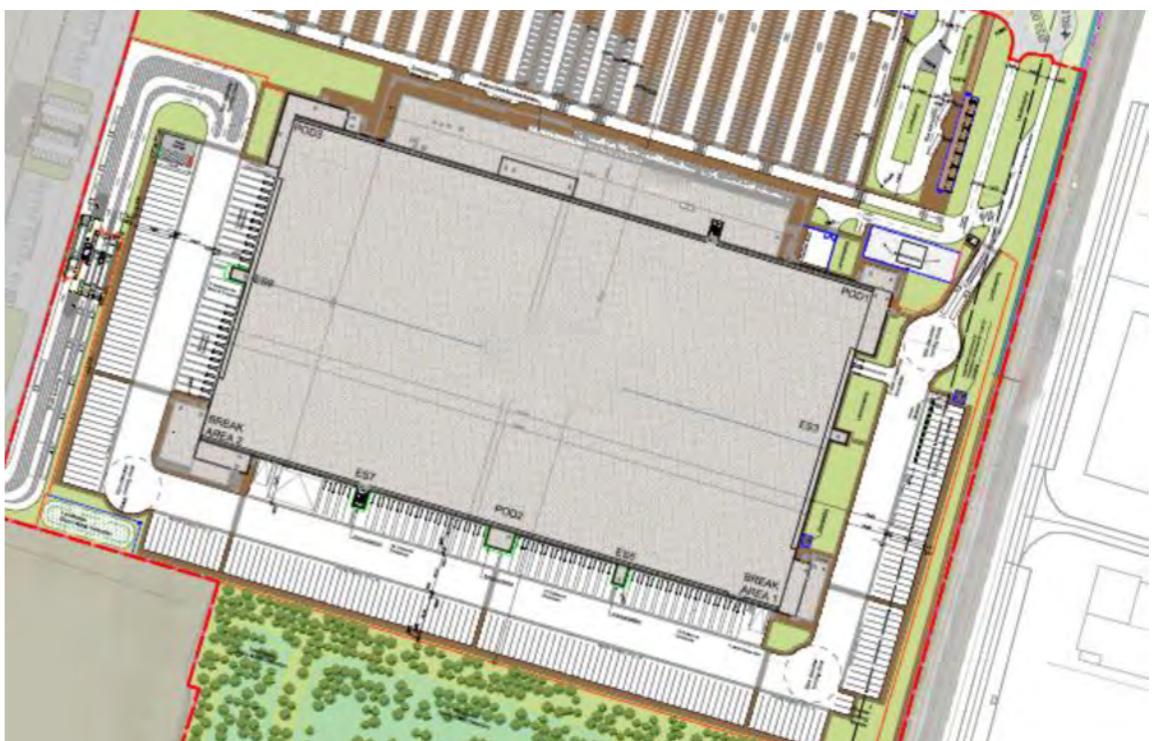
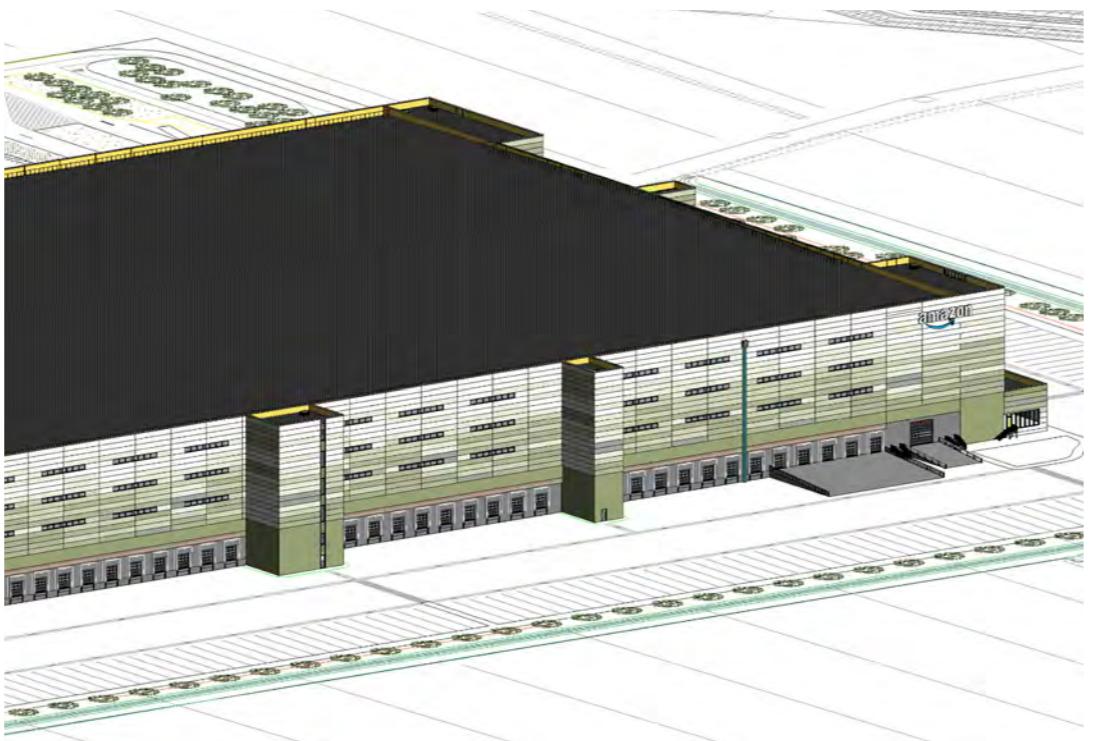
- SL: 60.000 sqm

Lead engineers

- Ing. Gianluca Pittelli
- Ing. Raimondo Salaris

Relevant aspects

- Ability to be flexible to any ongoing design changes
- Flexibility and promptness in analyzing any options or design alternatives
- Close collaboration with the Jacobs team to identify the design process that best fits the final Client's wishes



Warehouse Novara

Structural redevelopment

Location

Agognate, Novara

Year

- 2022 - ongoing

Final Client

Amazon

Client

Jacobs Italia Spa

Area

Logistics

Activities performed

Structural consultancy for seismic improvement

Project cost

€ 100.000.000,00 (est.)

Size

- 50.000 sqm

Lead engineers

- Ing. Valter Carni
- Ing. Bruno Finzi

Relevant aspects

- Careful analysis of existing structures and assessments of possible structural improvements



Warehouse Mantua

New fulfillment center

Location

Mantua

Year

- 2022 - ongoing

Final Client

Amazon

Client

Jacobs Italia Spa

Area

Logistics

Activities performed

- Design for building permit
- Developed and detailed structural design
- Assistance to construction supervision "DL"

Project cost

€ 100.000.000,00 (est.)

Size

- 80.000 sqm

Lead engineers

- Ing. Bruno Finzi
- Ing. Gianluca Pittelli

Relevant aspects

- Close collaboration with the Jacobs team to identify the design process that best meets the final Client's wishes
- Need to adhere to the standardized guidelines of the final Client and flexibility in making any changes in the design phase



PC logistics hub

Moving ideas

Location

Piacenza

Title

Design of the foundation works of the warehouse called TP5 with the function of a logistics hub

Year

- Start date: May 2020
- End date: March 2021

Client

Generali Real Estate SGR SpA – Fondo Segantini

Area

Logistics

Activities performed

In-progress and final structural certification

Project cost

€ 4.000.000,00

Structure cost

€ 568.330,00

Size

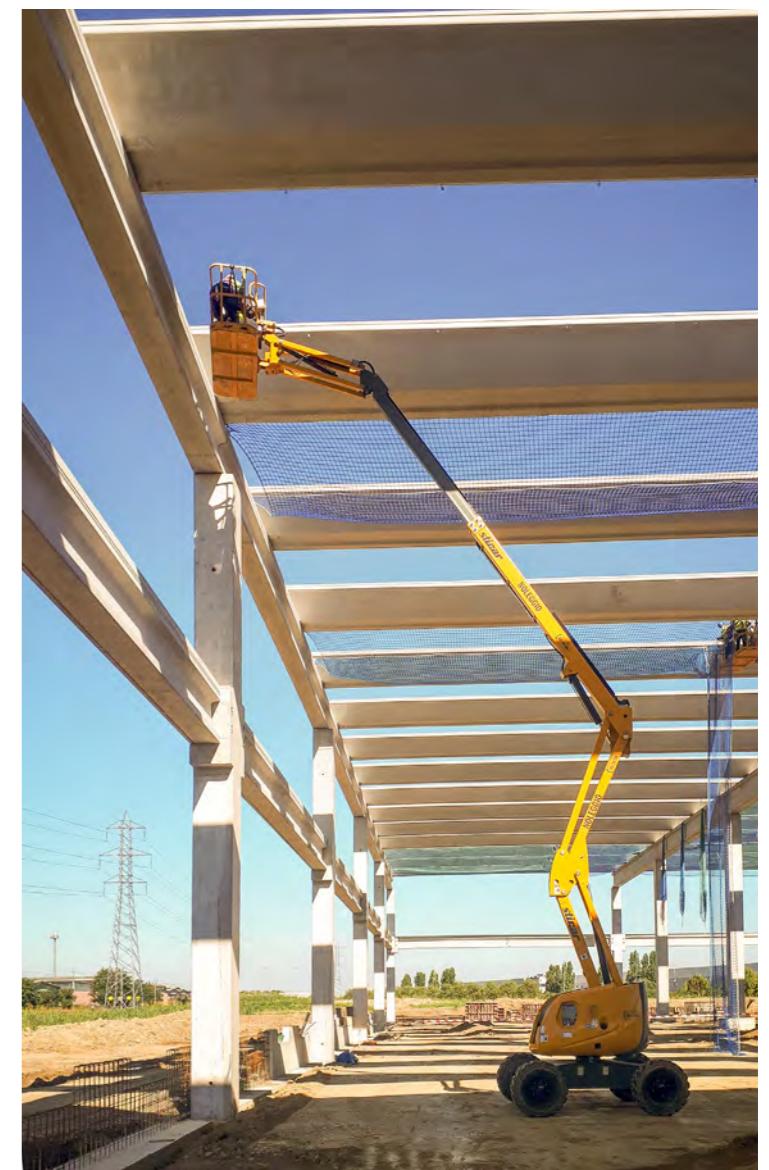
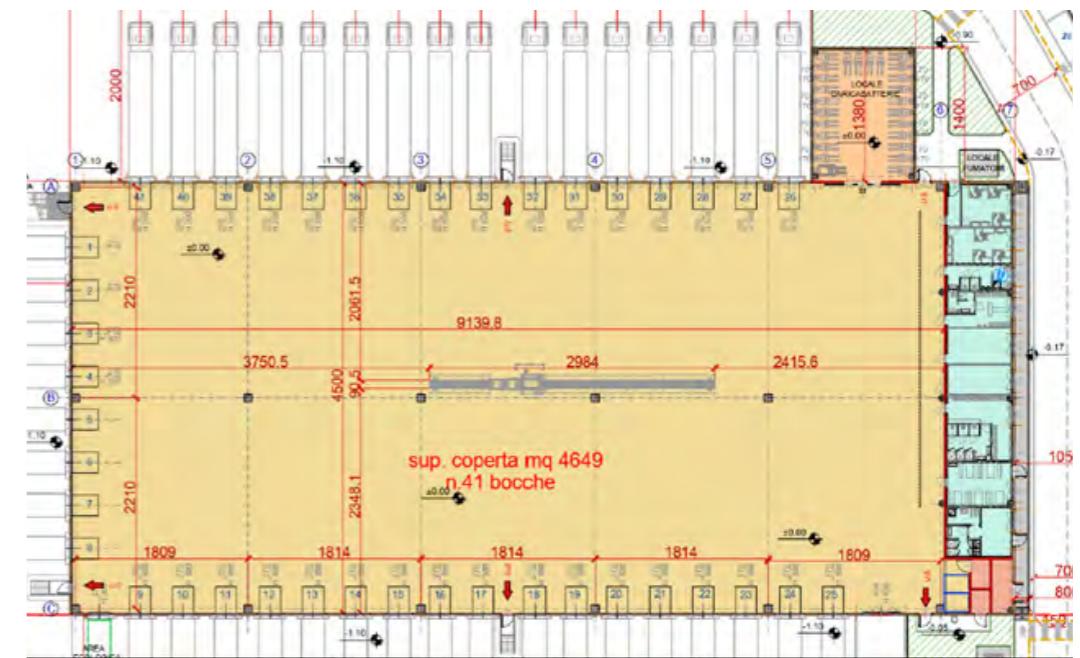
- 4.600 sqm
- Height 16,1 m

Lead engineers

- Ing. Bruno Finzi: Final certifier
- Ing. Luca Rossini: Assistant

Description

The TP5 warehouse, arranged on a floor above ground, consists of a main body used for logistics and offices and two ancillary buildings, the battery charger room and the smoking room (unconnected and external). The main body is made in reinforced concrete and prestressed reinforced concrete. The maximum height, referring to the height of the external square, is 16,10 metres. The roof of the shed is made with prefabricated beams in the internal area, surmounted by wing tiles in support of an insulated roofing sheet. The roof slab of the office area is made of prefabricated tiles resting on prefabricated L-shaped beams.



PC logistics hub

C1 and C2 warehouses

Location

Piacenza

Title

Construction at the Piacenza logistics hub in the T-P1 macro-area of the buildings called C1, C2 and guardianship

Year

- Start date: July 2021
- End date: January 2022

Client

Generali Real Estate SGR SpA – Fondo Segantini

Area

Logistics

Activities performed

In-progress and final structural certification

Project cost

n/a

Structure cost

€ 7.700.000,00

Size

- 46.000 sqm
- Maximum height 19.7 m

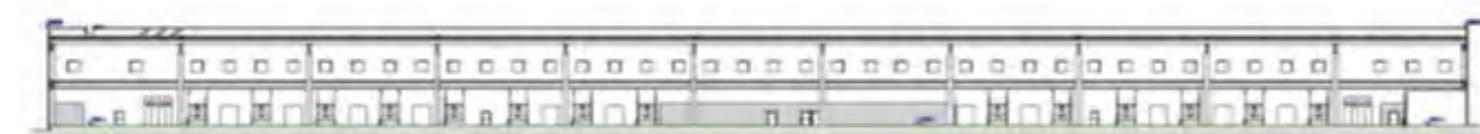
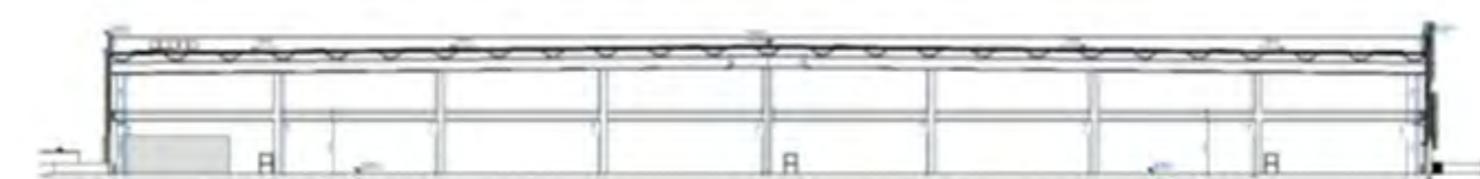
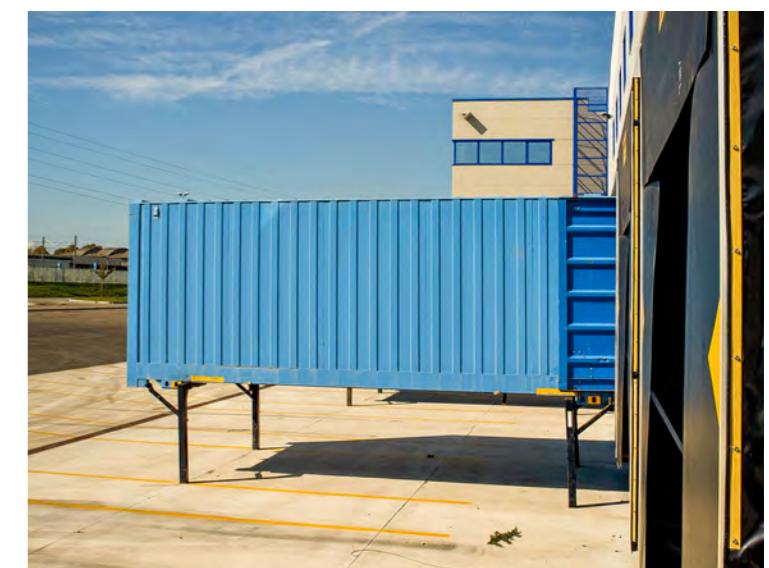
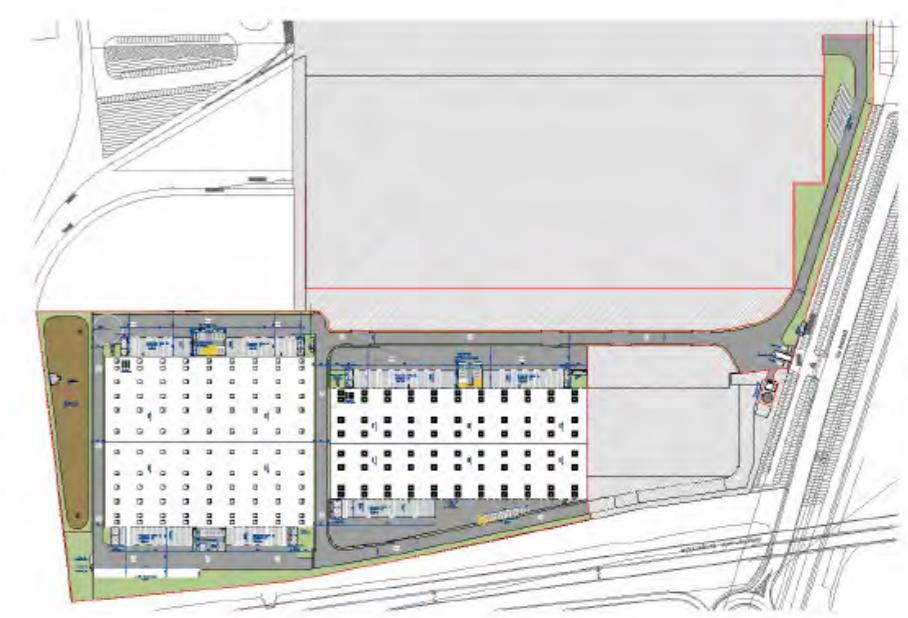
Lead engineers

- Ing. Bruno Finzi: Final certifier
- Ing. Luca Rossini: Assistant
- Ing. Alex Zilio: Junior engineer

Description

Both sheds consist of a single-storey building used for logistics, with the same structural characteristics. The "C1" has a total planimetric dimension of 176.70x145.10 m, while the "C2" measures 94.80x218.30 m. The roof beams are in prestressed reinforced concrete "Calice 75P" type and support the roof of the structure at the top.

All prefabricated reinforced concrete pillars of the sheds have a prevailing size of 70x70 cm. The buildings have a mezzanine in metal carpentry used as a warehouse.



C1

C2

Microsoft data center

MIL 01 and MIL 02

Location

Settala (MI)

Title

Construction of a new office / tertiary complex as part of the "M3 Commercial Park" transformation implementation plan

Year

- Start date MIL01: march 2021
- End date MIL01: january 2022
- Start date MIL02: april 2021
- End date MIL02: september 2022

Client

Microsoft srl

Area

Logistics / Tertiary

Activities performed

In-progress and final structural certification

Project cost

n/a

Structure cost

€ 11.318.747,00

Size

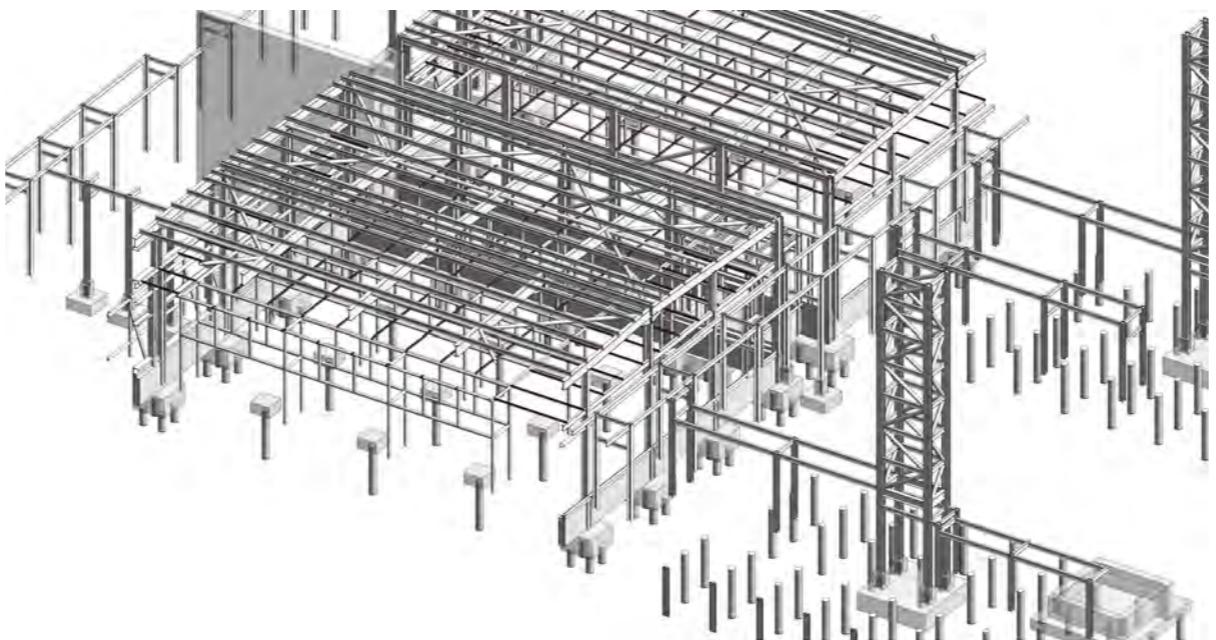
- 8.400 sqm (MIL01: 2.400 sqm - MIL02: 6.000 sqm)

Lead engineers

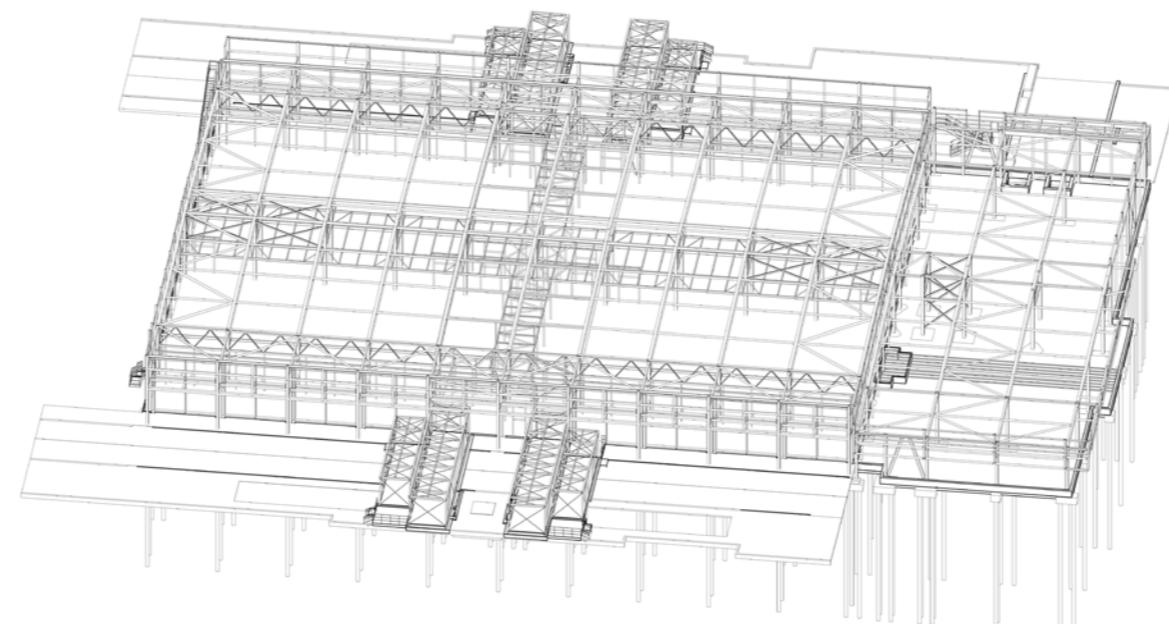
- Ing. Bruno Finzi: Final certifier
- Ing. Luca Rossini: Assistant
- Ing. Alex Zilio: Junior engineer

Description

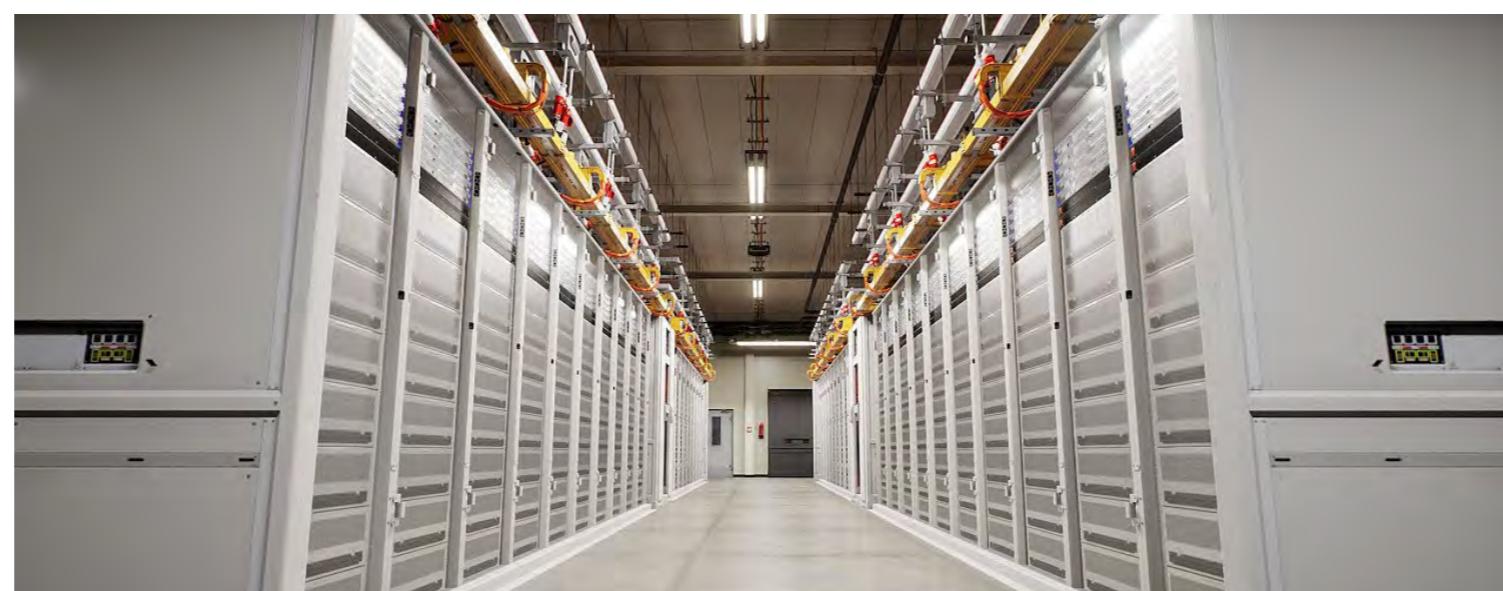
Microsoft requested the construction of a series of Rapid Deployment Data Centers (RDDs) around Europe. The one to be built in Italy represents the second project of this type and includes a series of modular buildings that house 6 data warehouses (COLO). The same mechanical and electrical systems are made up of modular elements which also house the administrative part and the part called "BOH".



MIL01



MIL02



Portfolio

of main clients



Hines

Fondazione Prada



UNIVERSITÀ
CATTOLICA
del Sacro Cuore



amazon

EUROCOMMERCIAL



KRYALOS
SOCIETÀ DI GESTIONE DEL RISPARMIO

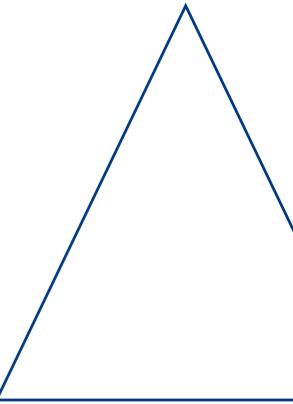
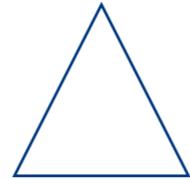


QC TERME





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