



AEGIS

CANTARELLI + PARTNERS

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*For architecture, among all the arts, is the one that most boldly tries to reproduce in its rhythm the order of the universe, which the ancients called "kosmos," that is to say ornate, since it is like a great animal on whom there shine the perfection and the proportion of all its members.*

- Umberto Eco







## COMPANY PROFILE

### AEGIS CANTARELLI & PARTNERS



**AEGIS – Cantarelli & Partners** is active in the fields of architecture, town planning and infrastructure since 1974. During its life the firm has evolved and renewed its methods and procedures to constantly remain ahead of the curve.

The company provides expertise in design, engineering and related areas to governments, industries, developers and construction firms, from concept to marketing solutions, with a 360 degrees approach to each project.

AEGIS has a staff of about fifty people at its disposal, spanning a wide range of disciplines and expertise, from purely scientific and technical to coordinating and managerial roles. All the projects are developed using **BIM technology and methodologies**, in which the firm has gained exhaustive competence. Project management is performed basing on **Lean** methodology.



# DEPARTMENTS



## ARCHITECTURE

Architectural design is central to our business. From initial strategic planning to construction documents we create modern, efficient spaces with an accent on Italian style and elegance.

From new builds to redesigns, conversions, extensions and restorations, our team has the expertise to tackle projects of all sizes quickly and efficiently, basing on a collaborative approach between

different professionals (architects, interior designers, city planners) that work together to ensure that every need of the Client is clearly outlined and satisfied.

### Fields:

*Residential  
Commercial  
Corporate  
Government  
Health Care  
Exhibition*



## ENGINEERING

The structural and infrastructural engineering team is equipped with the most sophisticated calculation systems on the market and constantly invests in personnel's training, to guarantee up-to-date design, strict adherence to the most severe regulations and, at the same time, cost-effective solutions.

The **integrated, multidisciplinary approach** ensures that each project is under-

taken with the highest quality standards and respect for the environment .

### Fields:

*Civil Engineering  
Structural modeling and analysis  
Structural dynamics and seismic  
Logistic hubs  
Mass transit systems  
Parking design*



## ENVIRONMENT

AEGIS' **multidisciplinary approach**, together with careful attention towards the landscape, allows us to make sure that each project is harmoniously inserted into its **environment**.

Our environmental engineers and landscape architects are always up-to-date to the latest international rules and regulations, to ensure that every project adheres strictly to the local demands.

### Fields:

*Landscape design  
Sustainable buildings  
Waste management plants  
Water treatment plants  
Environmental sustainability  
Urban planning*



# INDEX

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**EXPO 2015**





## EXPO MILANO 2015

### SCOPE OF WORKS

- shop design
- architectural design
- structural design
- working plans
- site and structural management
- safety management
- BIM management (LOD300)





Cluster -Coffee, fruit  
and legumes,  
marketplace, spice



ASV - Service Architecture



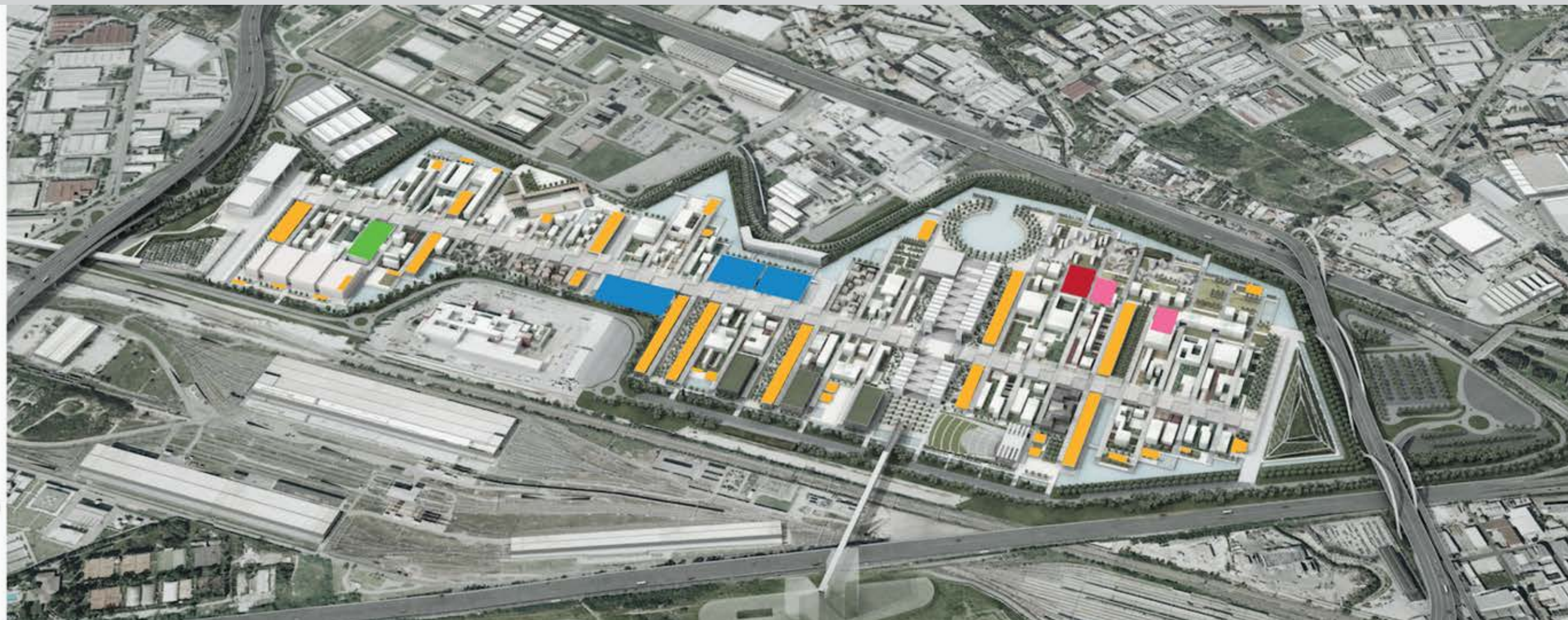
Nepal Pavilion



Coca-Cola Company Pavilion



NE4-NE9







- LOCATION: Milano e Rho
- CLIENT: EXPO Milano SpA - Group ICM SpA - CEFLA s.c.
- COST: € 65.889.225,00
- EXTENSION: 55.000 sqm



ASV

Service buildings: restaurants, restrooms, commercial areas, services to exhibitors and visitors, safety, storage and technical spaces.  
Shop design, structural design, engineering and safety coordination.





**CLUSTER CAFE - FRUIT - SPICE**  
 30 pavillions, three storeys tall, divided in four different exhibition areas, each with an identifying interior and exterior design. Shop design, structural design, plants and safety, engineering and safety coordination.







- LOCATION: Milano
- COST: € 3.000.000,00
- LAND AREA: 2.717 sqm

### NEPAL PAVILION

The pavilion has a GFA of 2.000 sqm, again in removable prefab structure.

Total cost: € 3.000.000.

Services performed include preliminary and detailed structural and architectural design and site management.

### NE9 AND NE4 PAVILIONS

Office and exposition pavilions for a variety of partners, such as Telecom Italia, Accenture, Ferrero, Heineken, Cisco, Alitalia/Etihad, Samsung and FCA Fiat Chrysler Automobile.

The NE4 pavilion has a GFA of 2.500 sqm, the NE9 of 1.700 sqm. Total costs: €3.600.000 for NE9 and €2.400.000 for NE4.



- LOCATION: Milano
- COST: € 6.000.000,00
- LAND AREA: 3.200 sqm
- CLIENT: Geo Costruzioni Srl - Startex Srl







- LOCATION: Milano
- COST: € 1.700.000,00



- LOCATION: Milano
- COST: € 2.000.000,00
- GFA: 1.000 sqm

## CLUSTERS ZONE 2

Outfitting for the external areas of the pavilions; furniture, pathways for the visually impaired, theme gardens, graphic and photographic exhibitions, restoration and resting spaces (with relative technologies/equipment and plants)

## COCA COLA PAVILION

The Coca Cola Company Pavilion has a GFA of about 1000sqm and is built mainly in removable prefab structure. The cost of the works is € 2.000.000. Services performed include preliminary and detailed structural design as well as site management.

# BUSINESS DISTRICTS



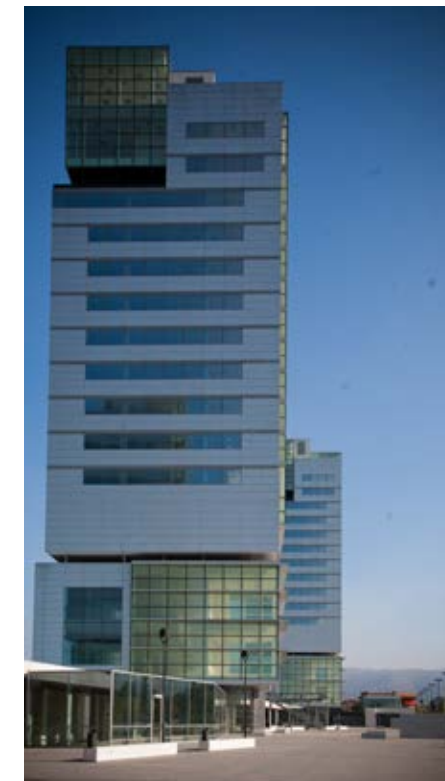
**BUSINESS  
DISTRICT**

**TRE TORRI**

- **LOCATION:** Brescia
- **CLIENT:** Morgante Srl
- **COST:** € 66.000.000,00
- **YEARS:** 2006-2009
- **HEIGHT:** 80 m
- **GFA:** 25.000 sqm



Project for three business towers, with an ample pedestrian plaza and greenbelt. The project involved three business towers, each 80 meters high for 25.000 sqm, as well as about 5.000 sqm of underground parking on two levels. The stairwells and elevator shafts, built with the help of the most advanced technologies in reinforced concrete, function as bearing structures. The main body of the towers is clad in an aluminum and glass “skin”, with large transparent volumes as distinguishing feature. Each of the 14 floors has very high ceilings, optimal natural lighting and a view of the city; a public pedestrian square and large greenbelt with water pools complete the area.



**SCOPE OF WORKS**  
preliminary, final  
and shop design  
site management  
enviromental studies





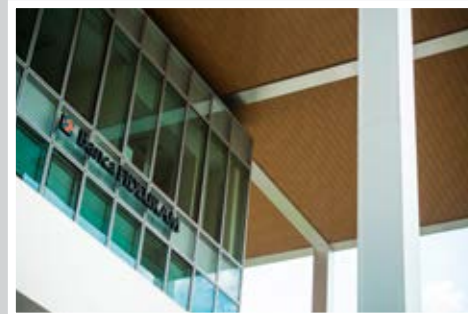


## BUSINESS DISTRICT HOUSING AREA

- LOCATION: Brescia
- CLIENT: Imbre Srl
- COST: € 12.477.000,00
- LODGING: 31
- GFA: 9.000 sqm

The new office and residential complex, close to the business district, has been devised to reclaim a former industrial area. The residential part has a total GFA (gross floor area) of 3.600 sqm, while the office building has a GFA of 3.000 sqm. The public pedestrian square and related landscaped gardens have a total GFA of 6.600 sqm.

**SCOPE OF WORKS**  
preliminary, final  
and shop design  
utilities design  
site management  
safety management  
and coordination  
accounting









## BUSINESS DISTRICT HOUSING AREA

- **LOCATION:** Brescia
- **CLIENT:** Giacomelli Costruzioni Srl
- **COST:** € 10.000.000,00
- **GFA:** 4.700 sqm

Project for a mixed use building, seven storeys tall, built on a former industrial area. The proximity with significant environmental elements (park and cycling lane on the river Mella) and an important arterial road meant that extra care had to be employed in the design process. Great attention has been dedicated to the design of the public areas and greenery, as well as the connective roads and related parking lots.

**SCOPE OF WORKS**  
preliminary, final and  
shop design  
utilities design  
site management





# TRANSPORT INFRASTRUCTURE



# METROBUS

- **LOCATION:** Brescia
- **CLIENT:** Brescia Mobilità SpA
- **COST:** € 653.251.244,63
- **LENGTH:** 13.7 KM
- **YEARS:** 2004-2013



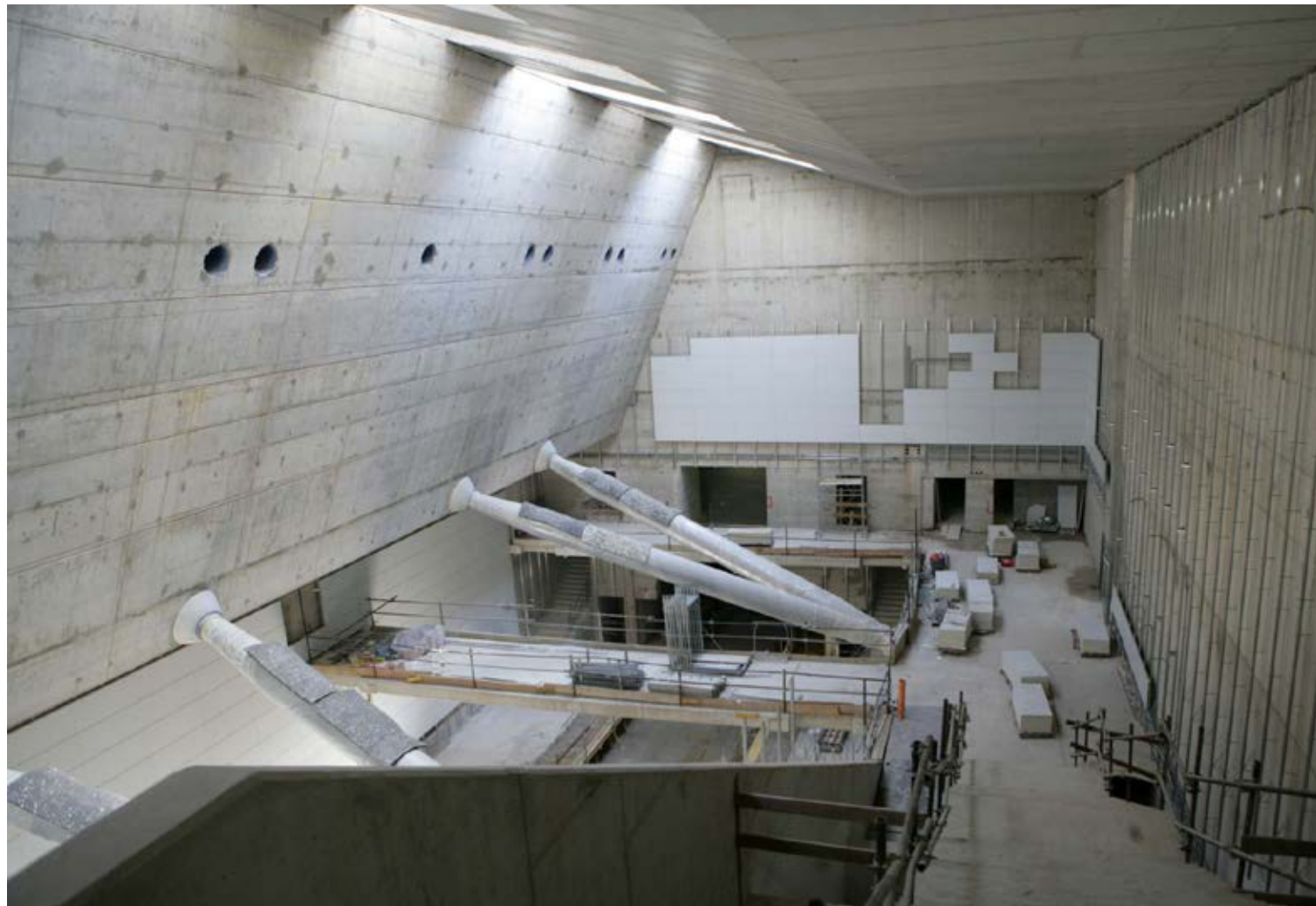
AEgis performed Project Construction and Safety Management for new Metrobus Brescia, a light, automatic underground system that will link the northern part of the city with the south-eastern part.

It will use a fully-automated trains system, analogue to that already in place in the city of Copenhagen. The line has a 12.000 passengers/hour limit, for a total length of 13.7 km, 5.9 of which underground, 4.8 in covered trench, 1.3 on the surface and 1.7 on viaducts, for a total budget of € 650.000.000.

Project control, cost control, safety management and architectural site management are the most important activities.

**SCOPE OF WORKS**  
project management  
construction management







# MOTORWAY SP BS 237 DEL CAFFARO

- LOCATION: Brescia
- CLIENT: C.M.B. - Diesse Electra SpA
- COST: € 38.860.000,00
- LENGTH: 3.1 km

Project for the new motorway on the outskirts of a lake in Northern Italy. One 2 km long tunnel, one 260m bridge, 4km of re-designed surface roads and related works (trenches, embankments, cut&cover).

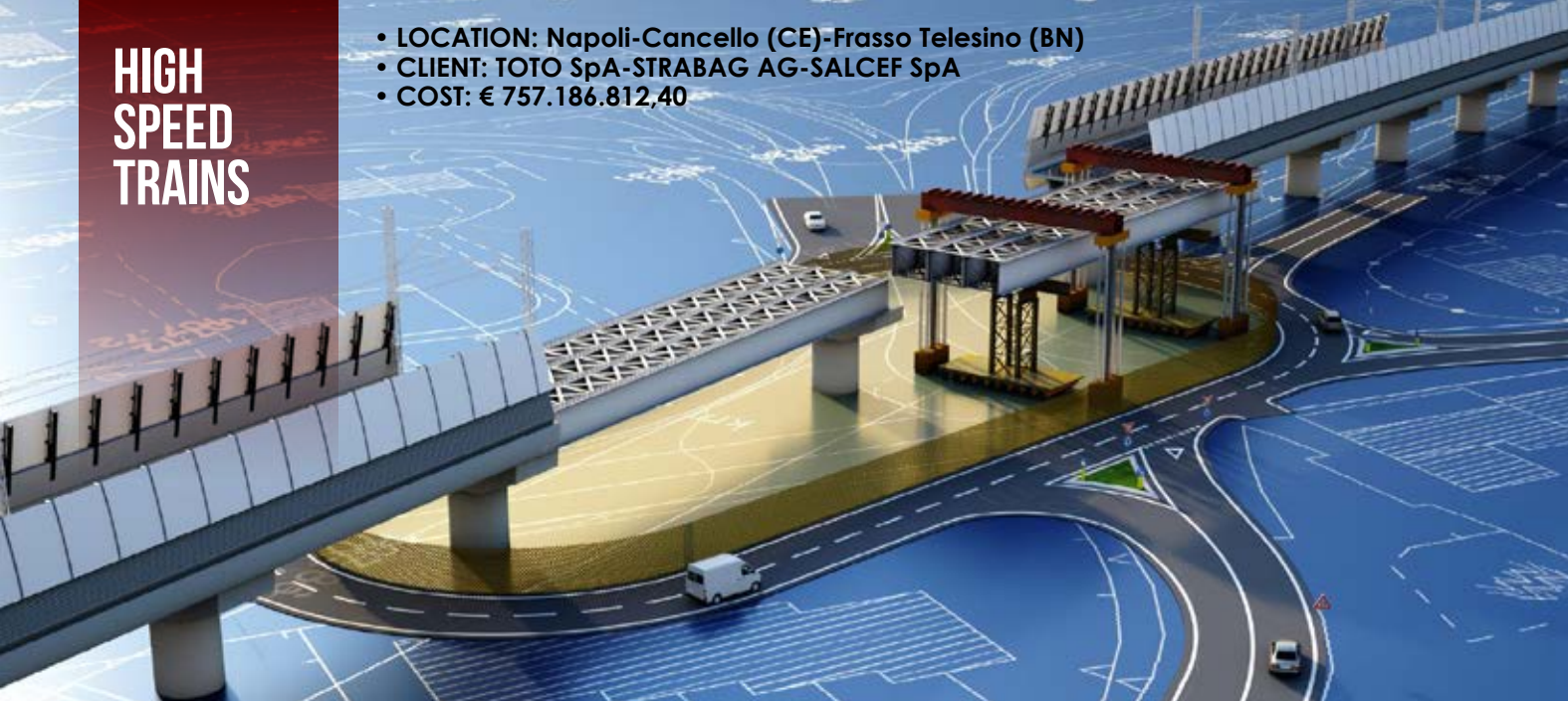
**SCOPE OF WORKS**  
utilities designs  
structural design  
enviromental studies  
BIM management  
(LOD300)





# HIGH SPEED TRAINS

- LOCATION: Napoli-Cancello (CE)-Frasso Telesino (BN)
- CLIENT: TOTO SpA-STRABAG AG-SALCEF SpA
- COST: € 757.186.812,40



Project for the improvement and extension of an existing railway in Southern Italy, to expand the new high-speed/high capacity trains' network.  
6 bridges, 40km of surface rails, review of the existing road layout, one tunnel.

**SCOPE OF WORKS**  
**BIM management**  
**(LOD300)**  
**BIM modeling**  
**construction site design**





# MULTILEVEL PARKING

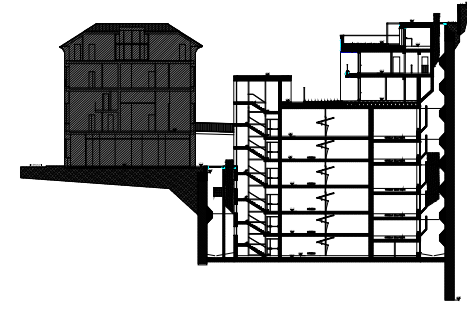


- LOCATION: Salò (BS)
- CLIENT: CBT Srl
- COST: € 5.000.000,00
- PARKING SPACES: 208



Project for a new multilevel parking in Salò (Brescia) with 208 parking spaces.

**SCOPE OF WORKS**  
shop structural design





**RESIDENTIAL**



## HOUSING AREA

# EX MANIFATTURA MONOPOLI DI STATO

- LOCATION: Brescia
- CLIENT: Solferino 57 Srl
- COST: € 9.300.000,00
- GFA: 10.000 sqm
- LODGING: 30



The former tobacco manufacture and storage facilities, located near the city center, has been transformed into a high-profile residential and office building; the residential part is five storey tall and has 30 generously-sized apartments, ranging from one to four bedrooms. Two parking areas - one above ground and an ampler one underground - a large landscaped garden and a pedestrian plaza complete the project. All units are built with the purpose of very low energy consumption, in accordance with the highest European standards.



**SCOPE OF WORKS**  
utilities design  
preliminary, final and shop  
design  
structural design  
geotechnic engineering  
BIM Management  
site management  
safety management







## HOUSING AREA PELLEGRINI



Project for a large residential and commercial area on recovered former industrial site. The design was heavily inspired by the typical Italian houses on the coasts of Liguria, recreating a cozy setting in the middle of the vineyards area surrounding Verona. The project included two roundabouts and the renewal of the existing roads.

- **LOCATION:** Sant'Ambrogio (VR)
- **CLIENT:** Valcos Srl
- **COST:** € 21.395.000,00
- **AREA:** 16.000sqm
- **LODGINGS:** 121+ 24

**SCOPE OF WORKS**  
preliminary, final  
and shop design  
site management





# GARDA VILLAGES



- LOCATION: Manerba del Garda (BS)  
Peschiera del Garda (VR)
- CLIENT: Morgante Srl
- COST: € 18.000.000,00
- LODGINGS: 790 + 60 under construction

Projects for tourist compounds for a total of 850 accommodations; included a multipurpose sports center with two fitness centers, olympic pool, children pool, four tennis courts, soccer field, table tennis and other activities. All the projects have in common the research for a strong relationship with the environment, both morphologically and in the materials; the correct blending with the delicate environment of the lake was the primary goal of the projects.

**SCOPE OF WORKS**  
utilities design  
final and shop design  
structural design  
architectural design  
safety coordination





# HOUSING AREA ECO BORGO



- LOCATION: San Massimo (VR)
- CLIENT: San Massimo SpA
- COST: € 225.000.000,00
- AREA: 387.346 sqm

Project for a vast, environmentally sustainable residential area, with apartment towers, semi- and cottages, a large central square with a church and service buildings.

**SCOPE OF WORKS**  
concept design  
masterplan





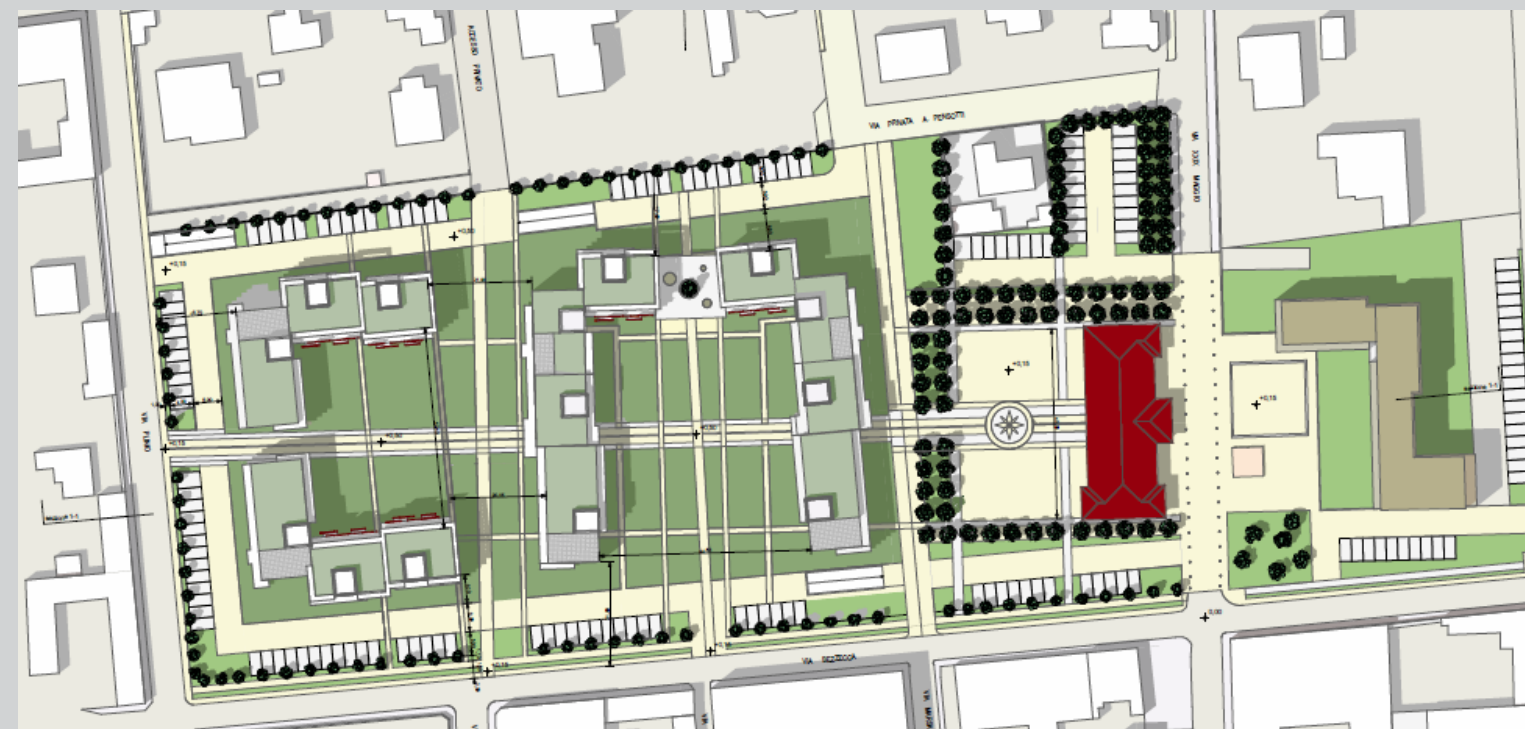
# HOUSING AREA EX-PENSOTTI

- LOCATION: Legnano (MI)
- CLIENT: Cooperativa La Foglia
- COST: € 18.000.000,00
- GFA: 13.500 sqm
- LODGINGS: 200

Project for the recovery and transformation of a disused former industrial area.

The project aims to reclaim an important part of the town that had been left to decay for quite a few years; healing this fracture within a mainly residential area is achieved by remodeling the internal and connecting road layout, creating green areas and public spaces while keeping at the heart the original office building of the former factory, brought back to life with renewed purpose.

**SCOPE OF WORKS**  
concept design  
preliminary and final  
design  
shop utilities design





HOSPITALS



HOSPITAL-  
REST HOME

EX-  
POLIAMBULANZA

- LOCATION: Brescia
- CLIENT: Morgante Srl
- COST: € 12.500.000,00
- AREA: 11.700 sqm
- LODGING: 33

Project for the recovery and transformation of a former hospice into a modern residence and retirement home, with medical and health services, gym, restaurant, conference room and theatre. The recovery has been particularly focused on seismic retrofitting.

**SCOPE OF WORKS**  
utilities design  
structural design  
site management  
safety management  
and coordination  
preliminary, final and shop design





HOSPITAL

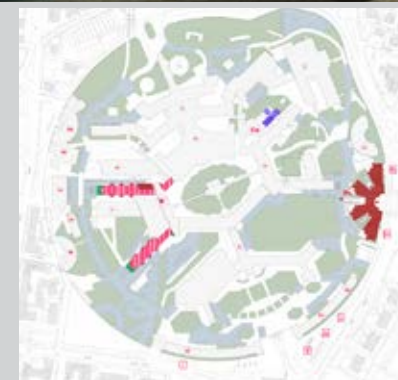
SPEDALI  
CIVILI

- LOCATION: Brescia
- CLIENT: A.B.P. Nocivelli SpA – A.T.I. Consorzio integra
- COST: € 33.420.722,79



Project for the extension, restoration and renovation of the day hospital annexed to the main body of the Hospital of Brescia, Italy. Interior and exterior design of the new building were performed under the BIM standards with the aim of maximizing comfort for patients and visitors alike.

**SCOPE OF WORKS**  
final structural design  
preliminary and final  
architectural design  
BIM Modeling  
BIM management (LOD350)  
fire safety engineering  
contractors management





SCHOOLS

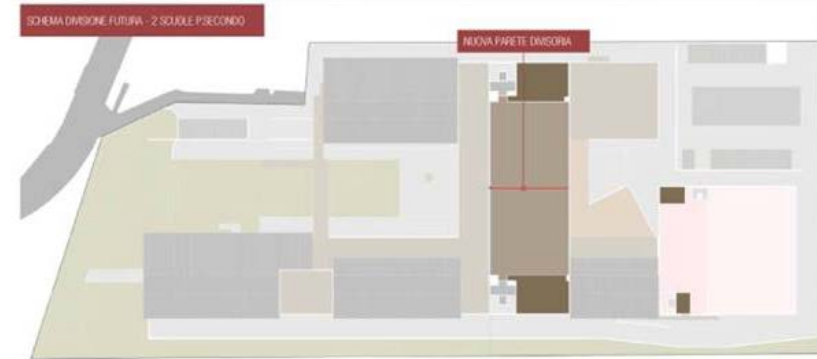


# AOSTA'S HIGH SCHOOL

- LOCATION: Aosta
- CLIENT: Caruso Serafino Srl – Gianni Benvenuto SpA – Diesse Electra SpA
- COST: € 21.051.929,45

Project for a high-quality, sustainable, low-impact school building. The target was to create something that could be both extremely functional and energy-efficient. The school will host 51 classes, each with a maximum capacity of 30 students, nine special classrooms, six laboratories aside from technical and administrative spaces. The great hall doubles as auditorium.

**SCOPE OF WORKS**  
final structural and architectural design  
BIM Modeling  
BIM management (LOD300)  
contractors management





LAAS

LONATI  
ANGLO  
AMERICAN  
SCHOOL

- LOCATION: Brescia
- CLIENT: LAAS Srl - Santoni SpA
- COST: € 2.800.000,00
- GFA: 5.000 sqm

Project for a new anglo-american school, from nursery to secondary school, based on the recovery and repurposing of a former industrial building, long in disuse. The recovery has been particularly focused on seismic retrofitting.

**SCOPE OF WORKS**  
preliminary, final and shop  
design  
utilities design  
structural design  
site management



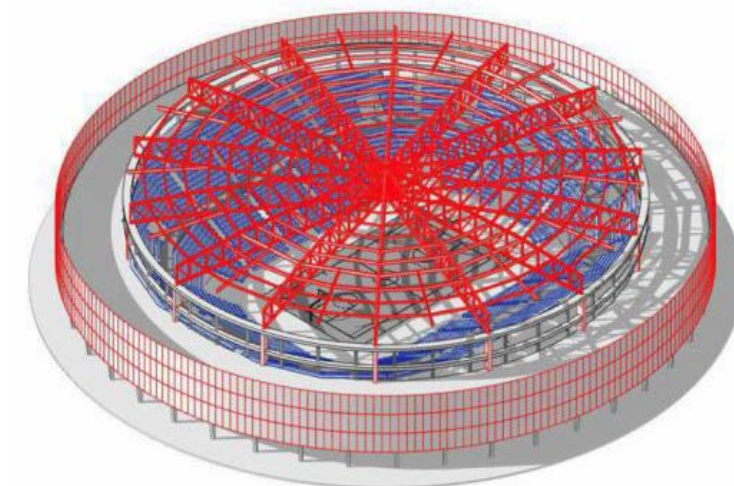
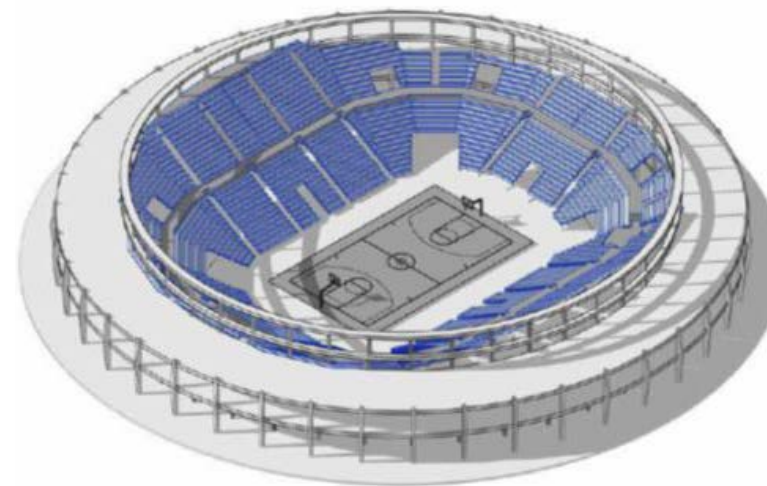


# PUBLIC BUILDINGS



# EX EIB PAVILION

- LOCATION: Brescia
- CLIENT: UNIECO Soc. Coop.
- COST: € 8.847.000,00
- SEATS: 5.000



Project for the recovery and renewal of a multi-purpose pavilion; sports arena, live concert venue, large-scale theater. The recovery has been particularly focused on seismic retrofitting.

**SCOPE OF WORKS**  
structural and architectural design  
safety management  
contractors management  
fire safety engineering

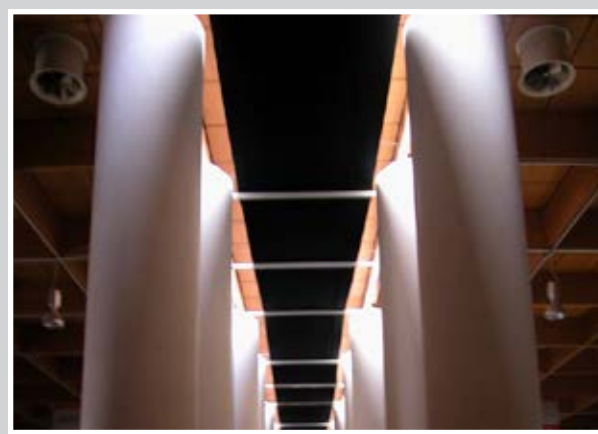
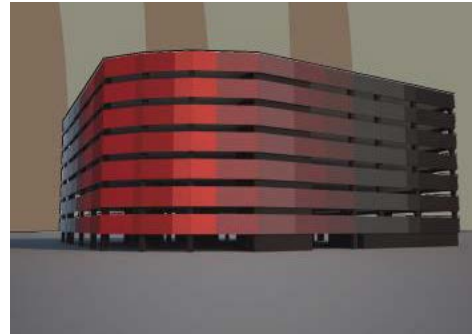


# VICENZA'S PAVILION

- LOCATION: Vicenza
- CLIENT: Fiera di Vicenza
- COST: € 37.205.025,39

The project for the extension of the “Fiera di Vicenza” is based on the construction of a new pavilion and a new multi-storey parking. The external spaces were developed specifically to ensure maximum accessibility both to vehicles and pedestrians in order to guarantee the best possible perception of spaces and ease of access to the exhibitions.

**SCOPE OF WORKS**  
site management  
safety management





# SHOPPING CENTER

“COOP”

- LOCATION: Brescia
- CLIENT: Studio associato Ingegneria e Ambiente
- COST: € 20.000.000,00
- GFA: 15.348 sqm

The new complex takes the place of the former “Magazzini Generali di Brescia”, covering a total GFA of 15.348sqm through a multi-storey building. The task was to create a new, vibrant commercial area, a new center of activity outside the city center.

**SCOPE OF WORKS**  
preliminary, final and  
shop structural design  
shop utilities design  
structural site  
management  
BIM Modeling  
BIM Management





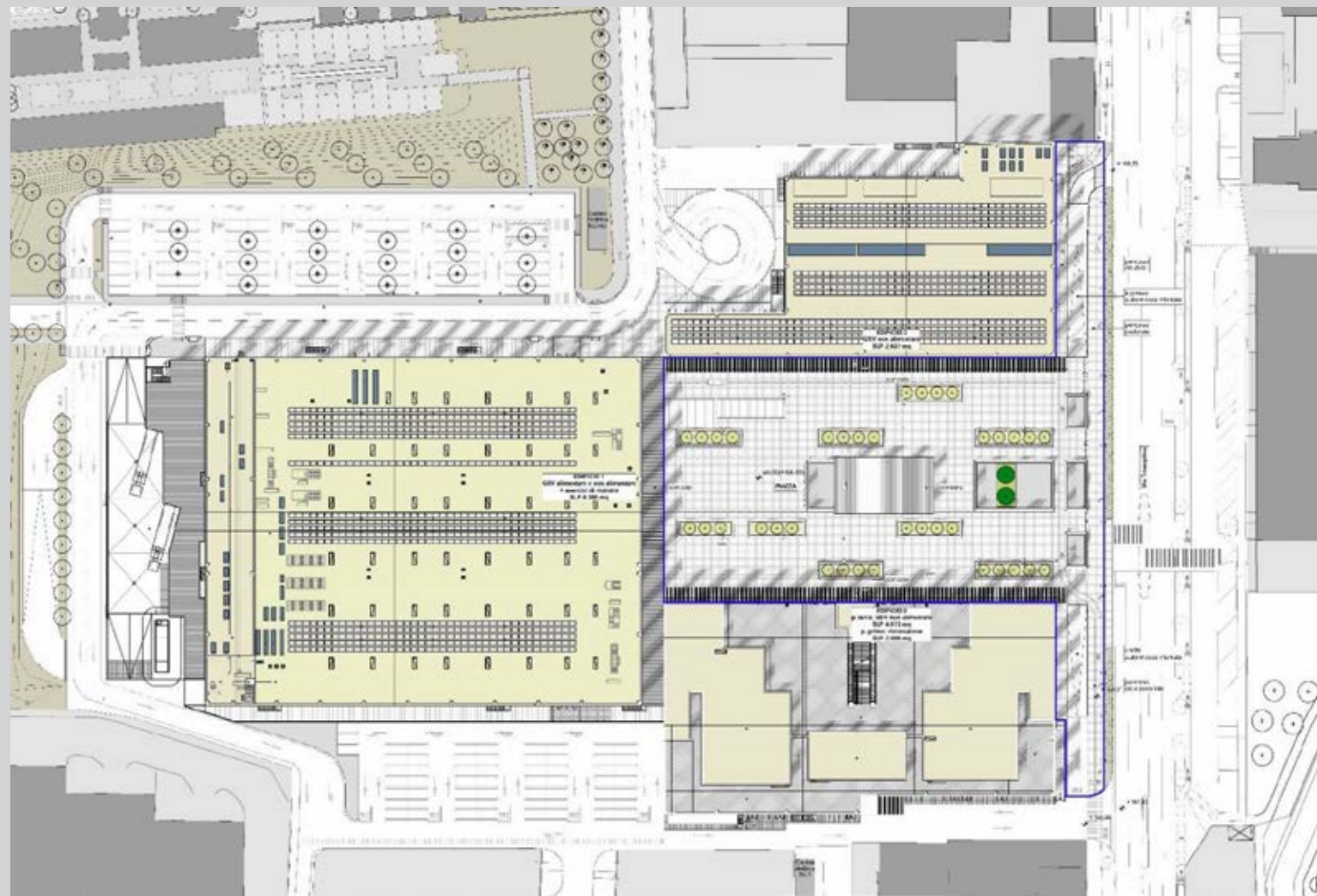
# SHOPPING CENTER

“ESSELUNGA”

- LOCATION: Brescia
- CLIENT: Triumplina 43 SpA
- COST: € 40.000.000,00
- GFA: 17.245 sqm

Reuse and requalification of a former industrial area for a new multi-purpose commercial complex, with a large public square. The area sits on the northern axis of access to the city of Brescia. The project includes three commercial buildings surrounding a rectangular square, lined on three sides by a covered walkways and opened towards the main access road. The underground floors include a two-levels parking lot developing under both the buildings and the square.

**SCOPE OF WORKS**  
structural design  
shop architectural design  
shop utilities design  
site management  
fire safety engineering  
BIM Management  
BIM Modeling





# MUSEUM MILLE MIGLIA

- LOCATION: Brescia
- CLIENT: Associazione MuseoMille Miglia SpA
- COST: € 5.000.000,00



Renovation, restoration of an ancient monastery for the historical international cars race "the Mille Miglia".

**SCOPE OF WORKS**  
design, project and  
construction management





# SERVICE BUILDINGS



# WASTE DISPOSAL PLANT

- LOCATION: Alli - Catanzaro (CZ)
- CLIENT: Daneco Impianti SpA - UNIECO Soc. Coop. - Germani SpA
- COST: € 33,643,830,93
- AREA: 82.000 sqm

Demolition of old buildings and construction of new ones for a recycling plant for both inorganic and organic waste.

**SCOPE OF WORKS**  
final structural  
and architectural design  
fire safety engineering  
enviromental studies





# CAMPUS UNIVERSITY

- LOCATION: Napoli
- CLIENT: Prof. Franco Mola
- COST: € 110.000.000,00



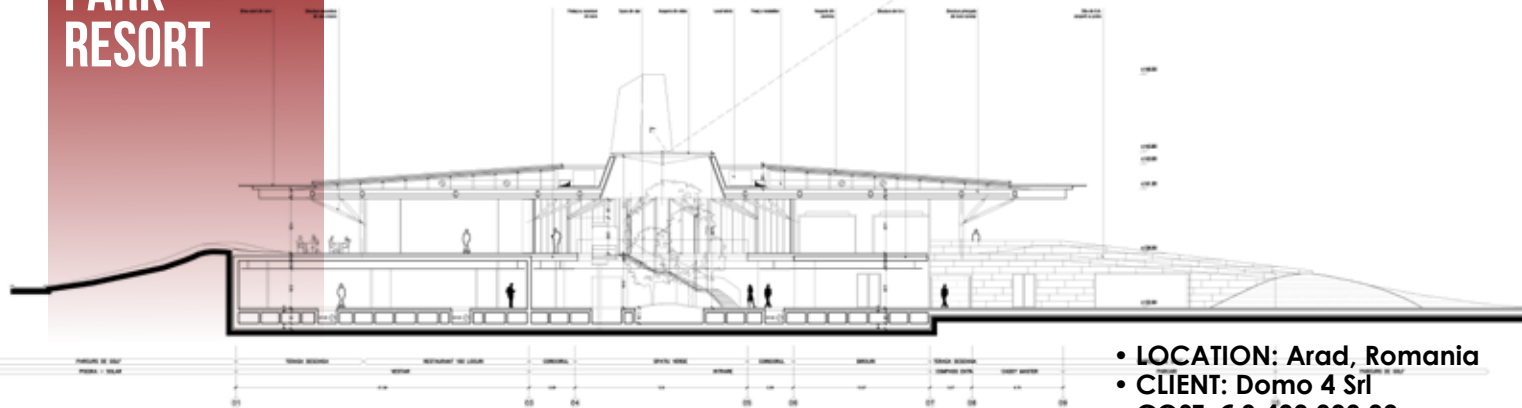
New University Campus in Naples; ten new buildings and seven underground parkings.

**SCOPE OF WORKS**  
final structural design





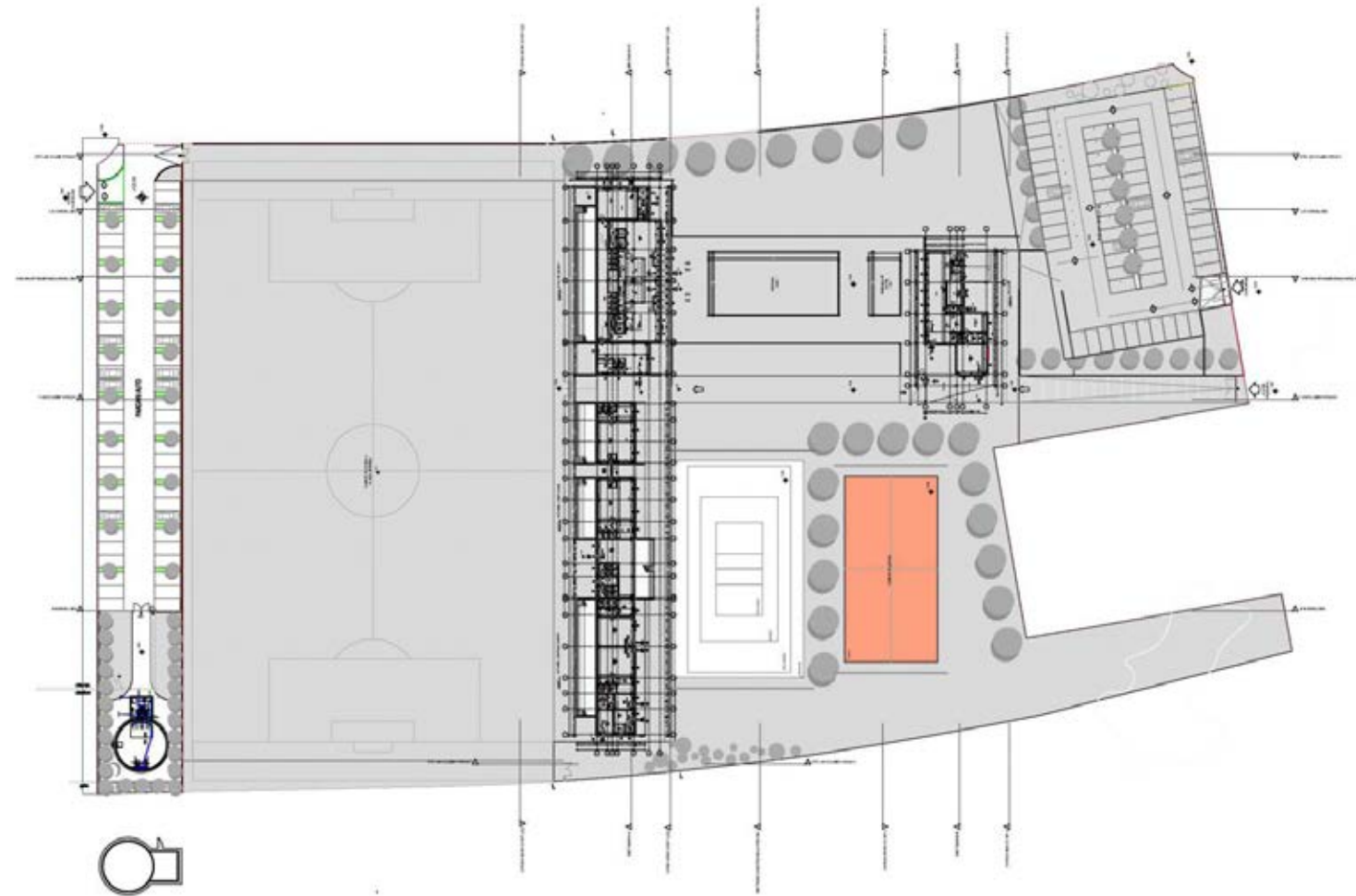
# BUTTERFLY PARK RESORT



- **LOCATION:** Arad, Romania
- **CLIENT:** Domo 4 Srl
- **COST:** € 3.400.000,00

18-hole Golf course, with a land area of about 60.000 sqm. The project involves also the construction of a five-star hotel with a GFA of about 25.000 sqm, fifty exclusive villas with private garden and swimming pool, further 2.000 lodgings of different kinds, common spaces and services, a 5.000 sqm congress center and a 5.000 sqm Club House.

**SCOPE OF WORKS**  
structural final  
and shop design





# RAINBOW MAGICLAND



Structural design for steel and concrete foundations of an amusement park in Rome.

- **LOCATION:** Roma
- **CLIENT:** Draco Progetti Srl
- **COST:** € 3.100.000,00

**SCOPE OF WORKS**  
structural final and  
shop design  
architectural final and  
shop design





# SAREYN IRANIAN THERMAL COMPLEX

- LOCATION: Iran
- CLIENT: Abnie No Andish
- COST: € 190.000.000,00



Project for a 22 ha (220.000 mq) thermal complex and resort in the Iranian region of Ardabil, city of Sareyn. The Client looked for a modern design yet reminiscent of traditional culture.

**SCOPE OF WORKS**  
masterplan  
concept design





# FACADE ENGINEERING



**FACADE  
ENGINEERING**

- LOCATION: Baku
- CLIENT: Italmesh Srl

- FACADE  
ENGINEERING**

  - LOCATION: Baku
  - CLIENT: Italmesh Srl

Engineering of complex facade systems in expanded sheet metal, numerical analysis, structural design, production shop drawings.



**SCOPE OF WORKS**  
structural shop design  
numerical analysis

Engineering of complex facade systems in expanded sheet metal, numerical analysis, structural design, production shop drawings.



**SCOPE OF WORKS**  
structural shop design  
numerical analysis





TRE TORRI | BUSINESS DISTRICT



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