TECNICAER

Human Experiences Builders

Design to improve people's lives

20° Da 20 anni, il futuro prende forma

Design to improve people's lives

We are an innovative integrated architecture and engineering company, proud to set new quality and performance standards.

We offer highly specialized and constantly evolving expertise in the field of major public and private projects, and we are committed to putting it at the service of people and the community.

Who

We operate in urban space planning, transport planning and mobility, hospital planning, as well as architectural, technological, systems, and structural design, and energy management. We are **one of the leading engineering firms in Italy**. Our continued growth—also on the international stage—is the result of an ambitious, forward-looking mindset and the proven effectiveness of our projects.

Mission

Through the generative synergy of creativity and technical expertise, we bring to life tangible projects that respect the environment and are designed for the end user—who is both the starting point and ultimate purpose of our work. We transform the quality of the environments we live in every day as a conscious act of responsibility. We foster a **company culture that values the well-being and happiness of every individual**.

Vision

We see ourselves as responsible agents of our future. We work to improve people's everyday experiences in the spaces they inhabit **easier, more sustainable, and more enjoyable**, to enhance their well-being and happiness.

Our History

Tecnicaer was founded in 2004 in Aosta by two professionals, **Fabio Inzani**, an engineer specialized in hospital design, and **Stefano Bonfante**, an electrical engineer, who decided to turn their extensive experience in both the public and private sectors into an entrepreneurial venture.

The company quickly grew and opened its first office in **Turin**. With a new leadership approach, Inzani and Bonfante initiated a fresh phase of management, introducing a quality system as a foundation. They built a team of highly qualified professionals and strengthened internal expertise and resources in the design of healthcare, educational, correctional, and large-scale public infrastructure projects.

In recent years, the need to stay closer to our clients and key operational areas has led to the opening of additional offices in **Milan and Florence**. Each office has its own identity and provides specialized services tailored to local needs.

The Group

Mythos Consortium

Mythos is a permanent consortium operating in the field of architecture and engineering, drawing on the professionalism and experience of six design firms with over 50 years of activity. Mythos is distinguished by its multidisciplinary approach and **BIM-oriented** project development, leveraging an information system capable of managing all geometric, dimensional, qualitative, and organizational aspects of a project.

Tecnicaer's presence within Mythos stems from the need to present a diverse and integrated design team capable of providing comprehensive support to clients—guiding them through the full process of project development and monitoring.

Tecnigreen

In December 2023, driven by the entrepreneurial vision of the founding partners of **Tecnicaer** and the company **Green Wolf**, a new design challenge was launched: **Tecnigreen**. Tecnigreen is a company specialized in providing advanced engineering training and high-level energy and systems services, focusing on highly specialized activities.

Its core services include professional support for **Energy Communities (CER)** and the development of renewable energy systems (RES).

Our Values

Design philosophy

People are at the heart of the spaces and infrastructures we design. Around them, we build everyday elements that are seamlessly integrated with advanced technological systems, enabling individuals to fully experience and enjoy the environments they inhabit.

Experience

For over twenty years, the Tecnicaer team has brought together diverse **technical and educational expertise** across every area of design. Our founding partners, supported by a dedicated team, continuously blend experience and innovation to deliver projects that meet both **aesthetic and functional needs**.

Innovation

For Tecnicaer, every project is the result of research grounded in **innovation and the integration of highly specialized technologies and know-how**. Each activity is carefully studied and analyzed, with innovative elements introduced to make it unique—and therefore, distinct from all others.

Our Values

Educational training

Tecnicaer supports the ongoing development of its team by identifying highly qualifying and educational training paths aligned with each individual's growth within the company. The company funds advanced **Master's programs and specialized courses**, and also organizes internal training sessions aimed at sharing knowledge on design and project management topics.

Sustainability

The ecological transition is not only a necessity—it has become a core part of Tecnicaer's corporate vision. To support this commitment, a new strategic division has been established alongside **Tecnigreen**, a company 50% owned by Tecnicaer. Tecnigreen develops highly specialized technologies for the design of **Energy Communities (CER)**, **energy efficiency solutions**, and the implementation of **environmental sustainability projects**.

Value of people

Every team member feels part of the project—**people are our greatest added value**. That's why Tecnicaer places the utmost importance on corporate welfare, providing everyone with tools to support personal well-being and enhance the quality of life in the workplace.

Tecnicaer's Numbers

Our Offices

Aosta:
Registered Office

Turin:
Main Operational Office

Milan:
Second Main Operational Office

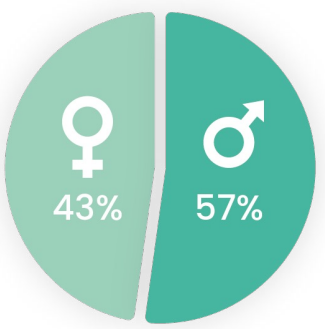
Florence:
Secondary Operational Office – Business and Commercial Development

Operational workforce: 94 team members

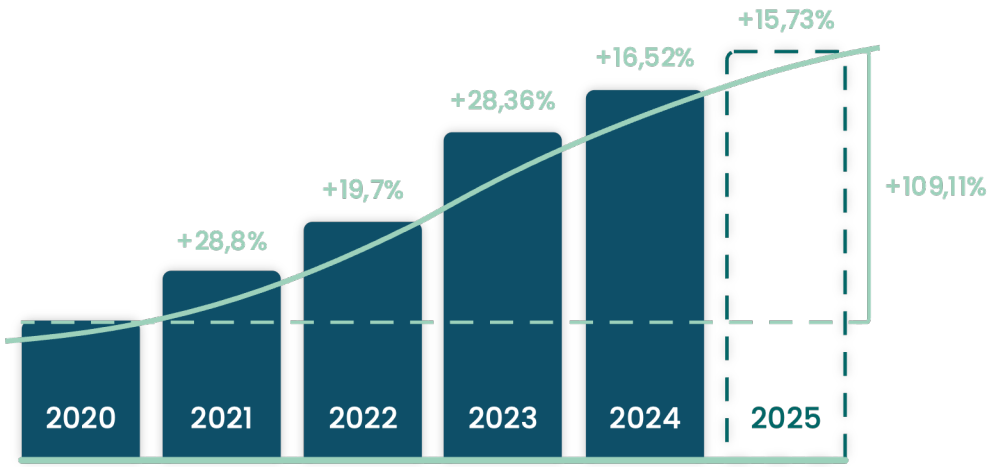
Turin: 67

Milan: 18

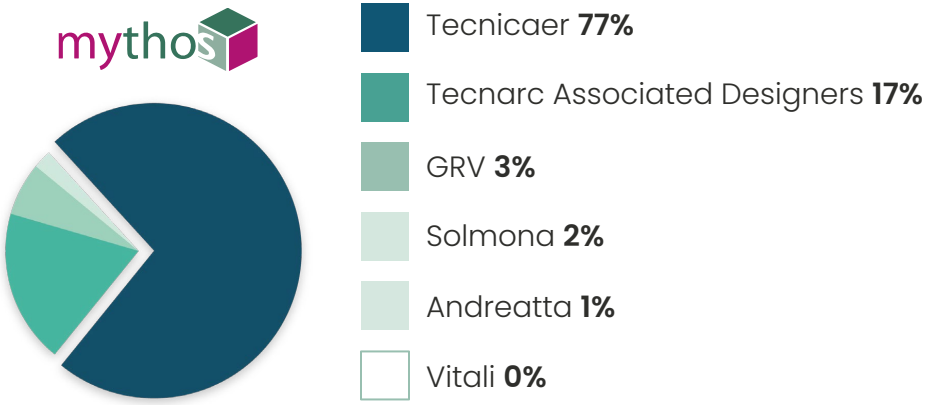
Florence: 9



Tecnicaer's Numbers



In recent years, Tecnicaer has experienced significant growth, increasing its consolidated revenue from €6.5 million in 2022 to a technical revenue of €8.1 million in 2023. Looking ahead, we anticipate further expansion, aiming to reach a turnover of €20 million by 2030.



This chart represents the average activities of the Mythos consortium over the past five years, highlighting the significant role of Tecnicaer. In fact, our company has carried out over 65% of the consortium's total activities, demonstrating our importance and substantial contribution to achieving the consortium's goals.

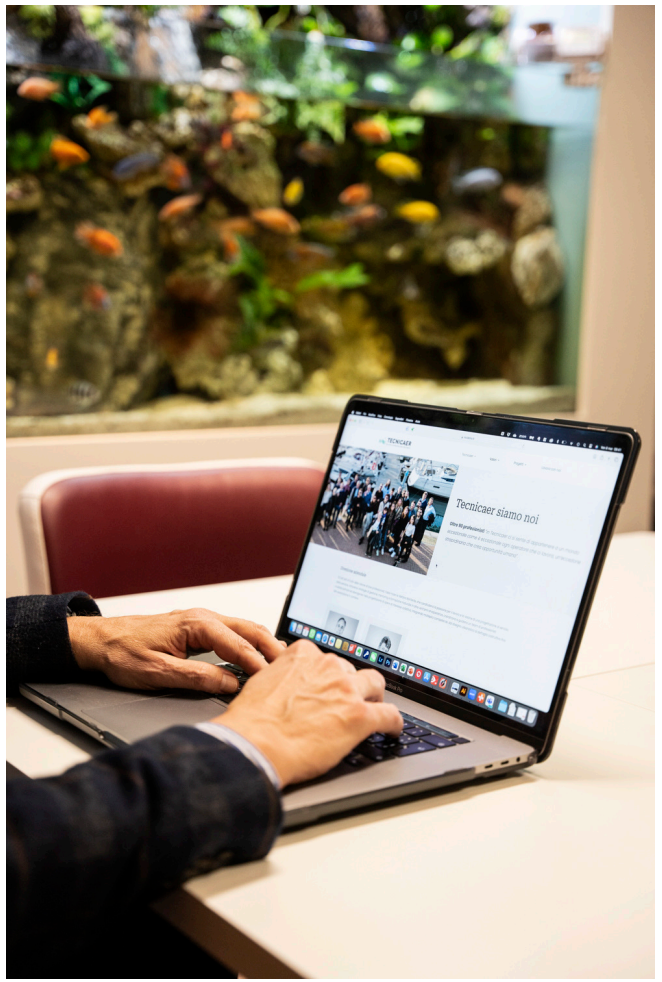
Our Approach

In a rapidly evolving landscape, Tecnicaer positions itself as a reliable and qualified partner capable of delivering outstanding projects across all sectors—whether **new constructions or renovations**—with particular expertise in works of public interest, such as **healthcare, educational, and correctional facilities**, as well as major **civil and infrastructure** projects.

As a distinguished partner operating with precision and innovative tools in both design and implementation phases, Tecnicaer covers every disciplinary field: **territorial integration, urban planning, architectural design, building systems, energy solutions, structural engineering, and clinical engineering**. Our effectiveness is especially evident in complex projects, where coordinated attention to every phase of the process is essential to achieving excellence.

The integration of disciplines and the specialized skills of our professionals working as a team, combined with a robust internal organization, production planning, and an efficient **Project Management** structure, enable us to consistently achieve high-quality standards. We meet our clients' expectations while respecting agreed timelines and budgets.

Each of our professionals brings their unique human and professional qualities to the team, pursuing a **design approach that balances engineering, aesthetics, and well-being**.



Our Services

Feasibility Studies

Our approach is based on streamlining the decision-making process regarding whether to proceed with a project. This involves a **systematic evaluation**—both economic and multi-criteria—of strategic aspects, and the clear presentation of key information to enhance the project. We adopt a circular methodological framework that enables continuous feedback to both designers—refining project features—and stakeholders—assessing the implementation model, including the resources required for construction and long-term operation.

Integrated and Coordinated Design

Tecnicaer boasts a significant number of professionals with proven experience in managing complex projects. The team is structured around each design discipline, covering all phases of the design process and involving **high-profile figures from the academic world**. Our methodology and process management are defined by a strong interdisciplinary approach and a well-established synergy among professionals—developed through numerous projects designed and executed under a shared operational philosophy.

Our Services

Construction Supervision and Site Safety

Tecnicaer has a **Construction Supervision** and **Safety Coordination Office** staffed with professionals who have decades of experience on construction sites for public works of national importance. In addition to fulfilling the mandatory roles required by current legislation on construction site safety (Legislative Decree 81/2019), the office ensures the highest standards of oversight and compliance.

Project Management

Within Tecnicaer, there is a high-level **Project Management** technical unit that provides the Client with a direct interface for project oversight. This ensures full transparency throughout the process and guarantees the achievement of all **project targets**, with the ultimate goal of delivering the final outcome on time and within budget.

Our Services

Tender Assistance and Project Financing

Tecnicaer's **Tender Office** provides expert consulting and comprehensive support to companies in the preparation of bids for **Technical and Economic Feasibility Projects (PFTE), Project Financing, and Integrated Contracts**. Our expertise covers administrative documentation, technical proposals, and financial offers. Starting from a preliminary feasibility assessment and verification of compliance with tender requirements, we handle all administrative and technical activities, aiming to optimize the documentation to be submitted.

Framework Agreement Management

Provision of **real estate asset** management services, structured around the planning, management, and coordination of all activities based on the client's specific needs. These are assessed through a thorough understanding and synthesis of the multidisciplinary contributions that characterize the subject of evaluation.

BIM – Building Information Modeling

All design activities, from the early stages of architectural concept development to construction site management, are carried out in a BIM environment. The various discipline-specific models (ARC/STR/MEP) are developed simultaneously, typically using REVIT, with levels of detail defined by UNI 11337 Part 4 and aligned with the required design stage.

This activity goes beyond simple 3D modeling to encompass every aspect related to the project: geographic location, geometry, material and technical element properties, construction phases, maintenance interventions, and demolition or decommissioning operations—essentially, the entire lifecycle of the built asset. In other words, it extends to the seventh dimension: asset management.

The developed models thus become extensive databases, providing access to any required information. The model acts as a virtual object that, through various simulations, illustrates what the building will be like once constructed, allowing technical and performance characteristics to be assessed during the design phase. **These digital containers store everything there is to know about a project**: product specifications, logistics, construction sequencing, costs related to both construction and future operation and maintenance of the asset.

Project verification is also carried out using a **BIM-oriented methodology**, addressing both regulatory compliance (**code checking**) and the accuracy of technical solutions. This is done by analyzing models exported in IFC format using specialized **Model Checking software**. Verification reports, prepared by the Project Information Manager, are then shared with the discipline-specific BIM Coordinators, streamlining the resolution of any issues detected.

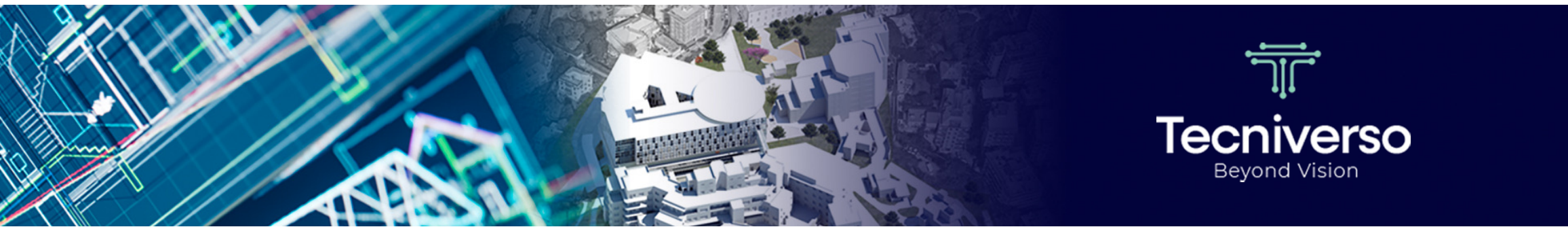
- Precast Elements
- Architecture Structure MEP
- Facility Management
- Materials Features
- Static analytics/ Civil engineering
- HVAC
- Visualization/ Virtual Reality
- Human Resources
- Cost/Time Management
- Site Management

A.I. and Tecniverso

At Tecnicaer, we have integrated cutting-edge technologies to enhance our design processes and deliver innovative solutions. Artificial Intelligence (AI) and the Metaverse have become central components of our approach to engineering and architectural design. We use AI to automate complex and repetitive tasks, such as generating structural models and analyzing environmental data. Through machine learning algorithms, we optimize space distribution and improve building energy efficiency, anticipating users' future needs to ensure functional, sustainable, and people-centered projects.
Moreover, AI supports predictive maintenance by continuously monitoring building conditions and suggesting targeted interventions to prevent issues, reduce costs, and extend the lifespan of structures.

At the same time, the Metaverse offers us new opportunities for visualization and collaboration. Through immersive virtual environments, we can present our projects in a more intuitive and engaging way, allowing clients to explore and interact with designed spaces in real time. This technology enables more effective communication and a deeper understanding of design proposals, reducing the risk of misunderstandings and costly changes during advanced phases.

The Metaverse also enables optimal remote collaboration among multidisciplinary teams, promoting the immediate exchange of ideas and feedback, accelerating the development cycle, and improving the quality of the final outcome.



The People

We are Tecnicaer

Tecnicaer is a **young and dynamic company** made up of professionals with decades of experience in healthcare, educational, and correctional architecture. The coexistence of highly experienced, proven experts and younger professionals—bringing cutting-edge, multidisciplinary, and technology-driven skills—makes Tecnicaer a reliable firm, grounded in solid know-how and constantly evolving, with its **sights set on the future, innovation, and research**.

This ongoing opportunity is fueled daily by each of us. The talents working at Tecnicaer shape ideas and bring new, innovative realities to life in service of the community—leaving behind a meaningful and lasting impact, built on the values each of us carries. The **vibrant energy of passionate, curious, and enthusiastic collaborators** empowers us to do what we do. Those who choose to work with Tecnicaer choose to take on the responsibility of creating innovation for humanity, giving deeper meaning to our profession—elevating their work with their life. **Enthusiasm, passion, and purpose** drive our company and inspire us every day to grow both professionally and personally.

Certifications

Equal opportunities for everyone

Tecnicaer is actively committed to promoting **gender equality**, ensuring that everyone has the same rights, opportunities, and access to resources. We work to eliminate all forms of discrimination and gender stereotypes, enabling everyone to realize their full potential.

Training shapes performance

To ensure design that is not only efficient and reliable but also consistently forward-thinking, our human capital is regarded as a strategic resource —enhanced and empowered through **continuous training**. This ongoing education is essential to meeting business needs and fundamental to fostering each team member's personal motivation and professional growth.

Certifications

Quality, environmental protection and workplace safety

All our services comply with the ISO 9001, ISO 14001, and OHSAS 18001 – UNI ISO 45001 Quality Management Systems. We have achieved the **highest Legal Rating score**, are members of the Green Building Council, and actively promote best practices in environmental sustainability in line with LEED, ITACA, WELL, and BREEAM protocols. We are also involved in Project Financing, as well as Global Services, Facilities Management, particularly in the context of Third-Party Financing (FTT).

A Strong Commitment to Sustainability

Tecnicaer has obtained **ESG certification**, confirming compliance with environmental, social, and governance criteria for all activities related to design, construction management, safety, testing, and consulting in the civil, industrial, and infrastructure sectors.

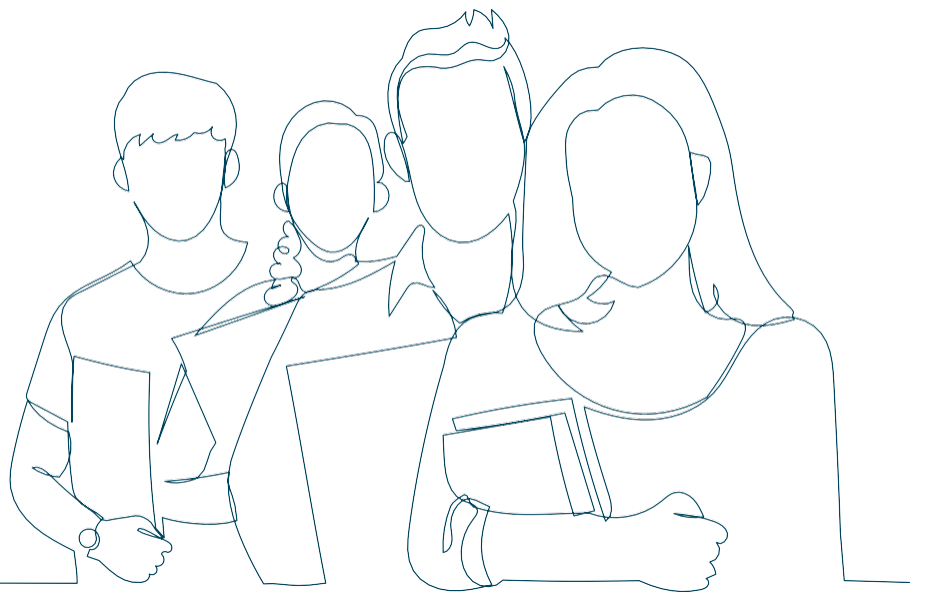
This recognition highlights the initiatives undertaken to enhance corporate sustainability and **contribute to achieving the Sustainable Development Goals** (SDGs).

TECNICAER ACADEMY

The new hub for knowledge exchange among professionals.

Training and professional practice can no longer operate separately and independently—they must increasingly support and enrich each other. **Tecnicaer Academy promotes the training of Tecnicaer collaborators** by identifying highly qualifying and educational pathways aligned with the company's internal growth plan.

Our goal is to **foster engineering and architectural projects** through advanced training programs, guiding candidates toward a professional development focused on design choices that result in beautiful, comfortable, and functional structures. To this end, we fund **high-level Master's programs** and specialized courses, and we periodically organize **internal training sessions** aimed at sharing best practices in design and project management.



Internal Training

We offer our employees the opportunity to enhance their skills through **targeted learning programs** developed in response to current market needs, thereby supporting the professional growth of our teams and strengthening teamwork.

External Training

We provide access to a broad range of expertise through **experienced professionals from various sectors**. We constantly stay up to date with the latest market developments to offer people the most current and relevant skills.

Advanced Training

This type of training provides experienced professionals with in-depth knowledge for a highly specialized level of preparation, enabling them to obtain **certifications and recognitions**.

Training Experiences

We offer **hands-on experiences** that allow individuals to quickly and efficiently apply their knowledge in a practical context, sharing insights and engaging with industry professionals.

Training Pills

We offer **short in-depth sessions** designed to enhance knowledge and skills on specific topics.

Tecnicaer’s Welfare

Our people’s wellbeing is at the heart of everything we do.

At Tecnicaer, the wellbeing of our entire team extends far beyond the workplace. Every team member is an active part of a real and concrete project that values professional, personal, and family life at every stage.

Each individual is a key contributor to our development and production journey.

People are the cornerstone of our absolute value: we place the utmost importance on corporate welfare, ensuring all collaborators have access to tools that support quality of life, personal care, and a positive, livable work environment.

1. Health Insurance

We ensure safety and peace of mind for all our collaborators. A comprehensive health insurance plan, extendable to family members, is available to each team member.

With Tecnicaer, your health is in safe hands.

2. Merit Bonus

Every year, we share personalized moments to reflect on our achievements: the merits and successes of our collaborators are acknowledged through **reward programs**.

During these occasions, individual performances are reviewed, and **loyalty, dedication, hard work, and commitment are formally recognized and rewarded**.

3. Urban Green Mobility Incentive

We value our employees' commitment to sustainable mobility by offering a reimbursement program for those who use **urban public transportation** to reach our offices.

4. Sport

We **promote sports** as an integral part of our company culture by organizing five-a-side football matches, volleyball games, and much more!

5. Recruiting Incentive

Referral Program – **“Bring a Friend”**, ee offer our employees the opportunity to receive a special bonus for each professional they refer who joins our company and remains with us for at least two years.

When you invite someone to join our team, you're not only giving them the opportunity to be part of a stimulating and rewarding work environment, but you also have the chance to receive an **incentive as a token of appreciation for your sense of belonging**.

6. Lunch!

To make work more comfortable and enjoyable, we offer an innovative system of PERSONALIZED meals that **can be ordered via app or website**, to be enjoyed in our welcoming company dining areas—spaces also designed for relaxation, games, and social interaction.

7. Tecnicaer Academy

We support our team members with **training programs** that ensure continuous professional growth.

Formazione interna

Formazione esterna

Alta formazione

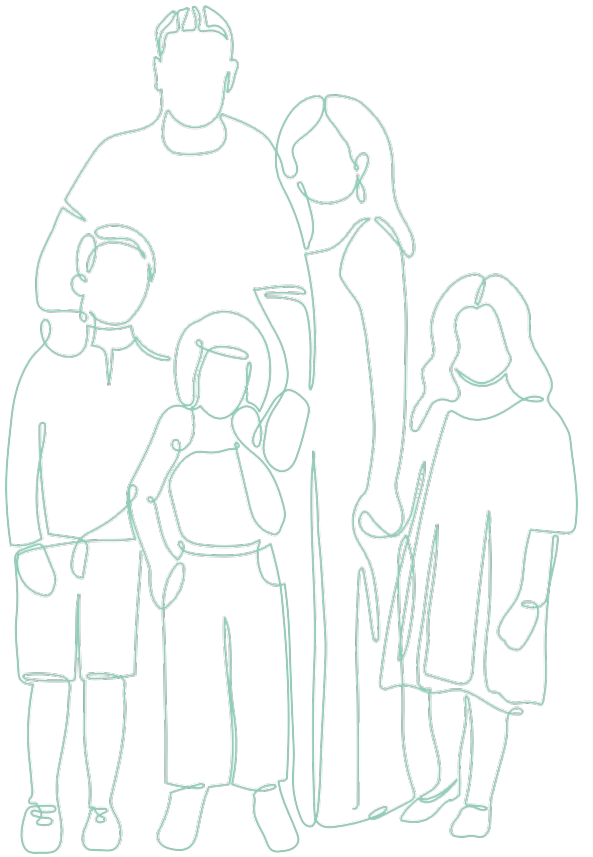
Esperienze formative

Pillole

8. BEBÈ Bonus

The joy and responsibility that come with a new life also require family peace of mind: Tecnicaer supports this with its **BABY BONUS**.

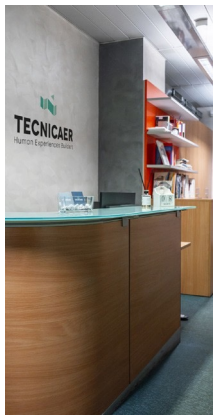
Recognizing the importance of this unique moment in a family's life, we provide special financial support to **team members who become parents**.

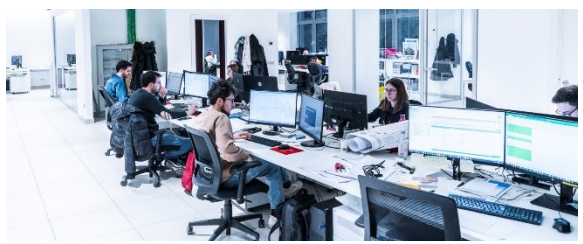


9. Merit-Based Children Bonus

Academic education and sports activities form the foundation of every individual's development: each year, we recognize and reward the achievements of our employees' children with two special bonuses — **one for academic merit and one for athletic merit**.

Our Offices





Turin

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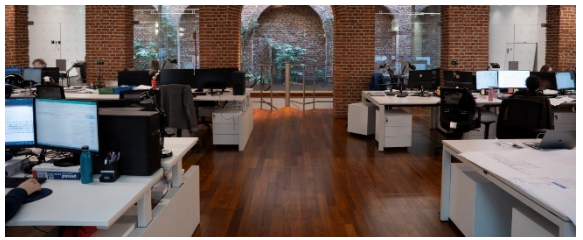
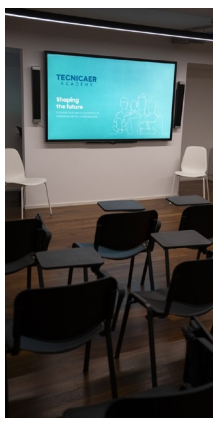
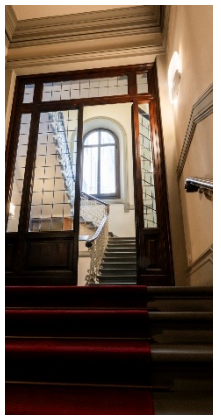




Milan

Via Bernardino Zenale, 9 - 20123 Milan
Phone: +39 02 83479810



Florence

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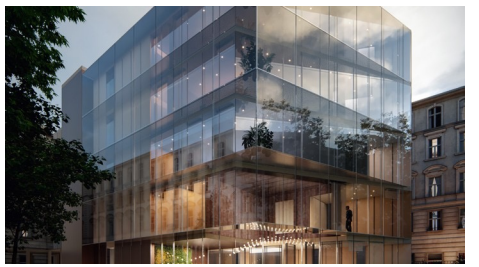
Our fields

Healthcare

Historical &
Artistic Buildings

Military & Defence



Public Buildings & HQ

Education & Research

Infrastructures

Urban Regeneration

Projects

Tecnicaer is more than just a company: we are pioneers in setting new quality and performance standards, driven by a **passion for innovation and progre**ss. Our work embodies a harmonious blend of creativity and functionality, where every project is designed to exceed expectations and leave a lasting mark on the architectural and engineering landscape.

We are committed to delivering continuously evolving expertise in the field of major public works. Each development is guided by a deep commitment to People and the Community, as we believe **architecture and engineering should enhance lives and enrich the social fabric**.

We are proud to present our most significant works—a tangible testament to our dedication to excellence and innovation. **Each project tells a unique story**, carefully and precisely crafted to meet the needs of today and anticipate the challenges of tomorrow.

New Felettino Hospital: 506 beds

La Spezia

Typology:	Healthcare Architecture
Commissioning body:	Guerrato S.p.A. for ASL 5 “Spezzino”
Provided services and scope:	Detailed and Executive Design, Safety Coordination during the Design Phase
Key project numbers:	Healthcare area: 60.000 mq; Outdoor area: 46.000 mq; Project Value: **225.000.000,00 €**

The New La Spezia Hospital represents an innovative and sustainable healthcare model, based on the organization of homogeneous functional platforms. The project involves the construction of a new regional hospital (506 beds), classified as a Level I Emergency Department (DEA), and will include key specialist services. It is designed as an acute care facility, offering high-level assistance and advanced technology, fully aligned with environmental sustainability principles.

The hospital stands out for its exceptional flexibility, applied to all structural components. This allows for internal space expansion, long-term adaptability, and ease of replacement of technical elements—minimizing operational risks. It is engineered to significantly reduce environmental impact through the use of advanced technologies, renewable energy sources, and maximum energy efficiency in production systems.

The new building consists of a single fragmented volume, organized into four “combs” radiating from a central spine in a fan-shaped layout. This structure is seamlessly integrated into the existing landscape through the design of both interior and exterior green areas, fully respecting the site’s environmental and landscape constraints.

Sopraceneri Regional Hospital – La Saleggina: 480 beds

Bellinzona (CH)

Typology:	Healthcare Architecture
Commissioning body:	Cantonal Hospital Authority (Ente Ospedaliero Cantonale - EOC)
Provided services and scope:	Architectural Design Completition
Key project numbers:	Green Spaces: urban park, inner courtyard, garden terraces, pediatric green area Funding Value : **395.000.000,00 €**

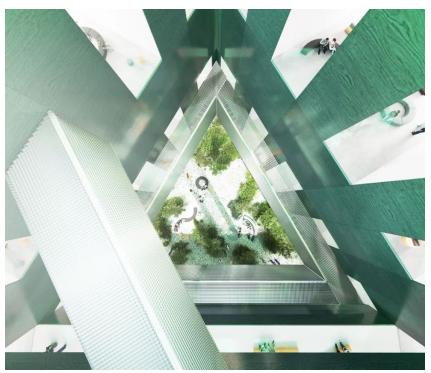
The new La Saleggina Hospital is set within the natural landscape between Bellinzona and Giubiasco, featuring a compact, modular structure oriented east–west. The design adopts a care platform and acuity-based organizational model, effectively separating pathways for patients, staff, and logistics.

The building is conceived to enhance patient well-being through natural light, integrated green spaces, and human-centered environments.

Flexibility and sustainability are at the core of the proposal, which also anticipates future expansions without disrupting clinical operations.

New Cremona Hospital: 640 beds

Cremona (CR)



Typology:	Healthcare Architecture
Commissioning body:	Lombardia Region / Cremona Health and Social Agency (ASST)
Provided services and scope:	Architectural Design Completition – Preliminary Design
Key project numbers:	Area: 90.000 mq Project Value: **390.000.000,00 €**

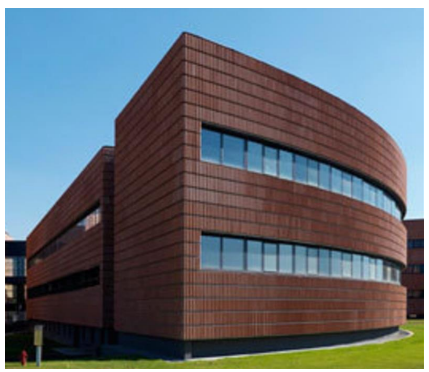
The new Cremona Hospital is built around the concept of a "healing environment," moving away from the monolithic block model in favor of a radial structure integrated into a large urban park. Its concentric ring layout enables a clear separation of flow clinical, visitor, and logistics, ensuring efficiency, flexibility, and comfort for both patients and staff. The widespread presence of green courtyards, therapeutic gardens, and natural elements supports psychophysical well-being.

The project blends hospital functions with public, commercial, recreational, and educational spaces, featuring a permeable ground floor open to the community. Strong emphasis is placed on sustainability, with the use of renewable technologies (solar panels, geothermal energy), eco-friendly materials, and biophilic design strategies.

Designed to evolve over time, the hospital is modular, prefabricated, adaptable to emergency scenarios, and equipped with smart technologies—representing a new paradigm in healthcare architecture.

Vimercate Hospital: 500 beds

Vimercate (MB)



Typology:	Healthcare Architecture
Commissioning body:	Brianza Health and Social Agency (ASST Brianza)
Provided services and scope:	Executive Design
Key project numbers:	Area: 113.000 mq Project Value: **360.903.489,00 €**

The Vimercate Hospital project was carried out between 2006 and 2007. The building is composed of three main blocks: reception, diagnostics and treatment, and inpatient wards.

Inside, it houses several specialized departments, including anesthesia and intensive care, general surgery, endoscopy, pharmacy, ophthalmology, oncology, and obstetrics. A key feature of the facility is its trigeneration plant, which produces thermal, cooling, and electrical energy. Additionally, the hospital is equipped with a dual-fuel cogeneration plant.

Special attention was given to the management and operation of technical systems through advanced control systems designed to optimize energy consumption.

The project was developed with a focus on sustainable development, incorporating groundwater-condensed heat pumps, rainwater and groundwater use for technological systems and fire prevention purposes.

City of Health and Science of Novara: 711 beds

Novara

Typology:	Healthcare Architecture
Commissioning body:	Itinera S.p.A., Acciona Construcciòn S.A., Euroimpianti S.p.A., CMF Consorzio Stabile, HISI Srl
Provided services and scope:	Detailed Design
Key project numbers:	Area: 140.000 mq Project Value: **340.000.000,00 €**

The project envisions the creation of a new university hospital hub that brings together the region's healthcare and academic functions into a single, modern, state-of-the-art facility.

The hospital will offer a total of 711 beds, including 70 intensive care and 34 sub-intensive care beds. Of the remaining 607 inpatient beds, 90 will be dedicated to Day-Care services—Day Hospital and Day Surgery. Additionally, the facility will include 86 technical beds (29 bassinets, 43 dialysis stations, and 14 for the Emergency Short Stay Unit), 26 operating rooms, and 100 specialist outpatient clinics.

An area will also be designated to meet the requirements of the Internal Emergency Plan for mass casualty events, large-scale emergencies—including infectious outbreaks—and other dedicated pathways, with the flexibility to convert at least 30% of single rooms into two-bed units if needed.

The hospital will be set within the New Provincial Park of the Battaglia, serving as its urban gateway. It is designed as a true landmark, emphasizing its strategic importance and architectural distinctiveness.

ASL TO5 Cambiano Hospital: 543 beds

Cambiano (Turin)

Typology:	Healthcare Architecture
Commissioning body:	Local Health Authority TO5 Piemonte Region
Provided services and scope:	Technical and Economic Feasibility Study
Key project numbers:	Total area: 80.000 mq Aree reserved for future expansion: 14.540 mq Parking spaces: 1.300 Funding Value: **303.000.000,00 €**

The New ASL TO5 Hospital represents a cutting-edge model of healthcare architecture. Located in Cambiano (Turin), the facility will offer a total of 543 beds, distributed across general inpatient care, post-acute care, and technical units, addressing the needs of a modern and inclusive healthcare system.

Covering approximately 80,000 m², the project stands out for its strong focus on environmental care and well-being, featuring green roofs, therapeutic gardens, and a modular architectural design that ensures both flexibility and sustainability. Technological innovations such as IoT systems and adaptive façades will reduce energy consumption by up to 63%, establishing the hospital as a benchmark for the future of local healthcare—particularly serving the cities of Chieri, Carmagnola, Moncalieri, and Nichelino.

Every detail is designed to enhance the experience of patients, staff, and visitors, with spaces that blend advanced technology and comfort. The new hospital will be a symbol of innovation and a significant step forward for the Piedmont region.

Gela Hospital : 330 beds

Gela

Typology: Healthcare Architecture

Commissioning body: Caltanissetta Provincial Health Authority (ASP)

Provided services and scope: Public-Private Partnership Proposal – Design, Construction, and Management

Key project numbers: Total area: 55.000 mq
Project Value: **260.000.000,00 €**

The new Gela Hospital will be built in the Contrada Ponte Olivo area and will take shape as a technologically advanced, human-centered healthcare hub. The project is based on the principles of care intensity and functional flexibility, with clearly separated pathways for different types of users.

The development includes a modern hospital block, multi-purpose spaces, sports areas, gardens, and community services. The architectural design aims to integrate harmoniously with the landscape while ensuring comfort, hospitality, and environmental sustainability—promoting universal accessibility and a new care experience.

Mangiagalli e Regina Elena Polyclinic: 798 beds

Milan

Typology:	Healthcare Architecture
Commissioning body:	Foundation Ospedale Maggiore Policlinico Mangiagalli and Regina Elena
Provided services and scope:	Executive Design
Key project numbers:	Total area: 67.542 mq Green area: 7.127 mq Project Value: **168.000.000,00 €**

The design of the new Mangiagalli Polyclinic features the construction of a single hospital block composed of three interconnected structures, aimed at unifying surgical and inpatient functions and moving beyond the former pavilion-based layout.

The building is notable for its compact volume, which allows for the expansion of public green areas and the creation of an urban park in continuity with Guastalla Park. The ground floor, free from clinical functions, is envisioned as a space for social and civic interaction, enhancing integration with the surrounding urban fabric.

The project incorporates sustainable solutions, including the installation of 10,000 m² of photovoltaic solar panels on the roof, and places strong emphasis on the comfort of both patients and staff, ensuring that all inpatient rooms enjoy direct views of greenery. Completion of the works is scheduled for September 30, 2025.

New Asl TO4 Ivrea Hospital: 276 beds

Ivrea (TO)

Typology:	Healthcare Architecture
Commissioning body:	Local Health Authority TO4
Provided services and scope:	Technical and Economic Feasibility Study
Key project numbers:	Funding Value: **140.000.000,00 €**

The New Ivrea Hospital, part of the Ivrea-Cuorgnè Integrated Healthcare Facility, is designed to accommodate 246 inpatient beds and 30 day hospital beds.

The project adopts innovative strategies in hospital layout to enhance spatial efficiency. Key features include:

- Reduced land use and minimized building footprint
- Shorter distances between departments, resulting in a more compact and functional structure
- Optimized circulation paths and streamlined staffing
- Centrally positioned technical floor, minimizing the area required for mechanical and utility distribution systems

These solutions contribute to a more efficient, sustainable, and high-performing healthcare facility.

Watch the project's video

San Paolo Hospital Hub: 470 beds

Milano

Typology:	Healthcare Architecture
Commissioning body:	Local Health Authority (ASL – Azienda Sanitaria Locale)
Provided services and scope:	Technical and Economic Feasibility Study, Executive Design
Key project numbers:	Project Value: **105.000.000,00 €**

The project envisions a radical transformation of the San Paolo Hospital Hub in Milan, with a new internal layout: outpatient clinics and day hospitals will be located on the lower floors, while inpatient wards—featuring single, convertible rooms with private bathrooms—will be on the upper levels. These spaces will offer hotel-level standards, thermal and acoustic comfort thanks to radiant ceilings and dynamic lighting.

Architectural beauty will play a therapeutic role: the design incorporates neuroaesthetic principles, engaging the senses with calming sounds and scents, natural plants, and soundproofing systems to create a serene, healing environment. Interactive areas, sensory games, and musical instruments will support cognitive and motor stimulation—particularly beneficial for patients with neurological conditions.

The new facility will be highly digitalized, featuring real-time monitoring, wearable devices, and infrastructure ready for artificial intelligence integration. From an environmental standpoint, the project will use eco-friendly materials, low-impact construction techniques, and energy-efficient solutions, making San Paolo a model green hospital aligned with the most advanced European standards.

Monumental Complex of Santa Maria del Popolo degli Incurabili: 195 beds

Naples

Typology:	Healthcare Architecture
Commissioning body:	Naples / Campania Region
Provided services and scope:	Design Competition – Redevelopment, Restoration and Functional Reuse
Key project numbers:	Built area: 32.100 mq Project Value: **66.000.700,00 €**

The redevelopment project of the Incurabili Complex aims to regenerate a historic site of extraordinary cultural value by integrating healthcare and museum functions into a flexible and accessible system.

The intervention includes the restoration of the cloisters, the Church of Santa Maria del Popolo, and the historic pharmacy, the creation of experiential pathways exploring the history of Neapolitan medicine, and the incorporation of modern healthcare services focused on chronic conditions and vulnerable populations.

The entire proposal is guided by principles of environmental sustainability, minimal visual impact, reversibility of interventions, and enhancement of historical heritage. At the heart of the project is the integration of care and culture—embodying the concept of "healing through art."

Mugello Hospital Facility: 127 beds

Florence

Typology:	Healthcare Architecture
Commissioning body:	Tuscany Central Local Health Authority (USL Toscana Centro
Provided services and scope:	Detailed and Executive Design, Safety Coordination during the Design and Executive Phase and Construction Supervision
Key project numbers:	Built area: 15.000 mq; Project Value: **51.000.000,00 €**

The project, initially driven by the urgent need for structural reinforcement, goes beyond major structural upgrades to include a wide range of improvements aimed at securing, optimizing, and making functional services technically and clinically autonomous. The redevelopment of the Mugello Hospital will restore the facility—after many years of anticipation—to its role as a key healthcare hub for the region and beyond.

Our proposal includes extensive works in the architectural, MEP (mechanical, electrical, plumbing), and clinical domains, involving renovations, modernization, and expansions. Through careful planning of spatial layouts and the physical and functional connections between processes, the project will significantly enhance safety conditions and minimize clinical risk—an increasingly crucial need, whose fulfillment will greatly improve the well-being of all users.

Watch the project's video

Renovation of the Giannina Gaslini Pediatric Institute: 460 beds

Genova

Typology:	Healthcare Architecture
Commissioning body:	CMB for IRCCS Giannina Gaslini
Provided services and scope:	Technical and Economic Feasibility Study, Detailed Design and Executive Design
Key project numbers:	Healthcare area of newly constructed Pavilion: 35.000 mq; Area of Pavilion to be redeveloped: 30.000 mq; Project Value: **138.000.000,00 €**

The project, developed through a public-private partnership, aims to transform the IRCCS Giannina Gaslini into a cutting-edge pediatric hospital increasingly centered on children and their families. The Masterplan includes the construction of the new Padiglione Zero, dedicated to high-intensity emergency and surgical care, as well as the renovation of pavilions 6, 15, 16, 17, and 18. It also involves the reconfiguration of pavilions 1, 2, 3, 12, and 13 for social-health services, educational activities, and hospitality. The project ensures safety and quality of care through a new spatial layout based on care platforms, ergonomic environments, and a healing environment, with attention to air quality, natural light, and acoustic and thermal comfort. The hospital will be equipped with a modular island-based system, built for efficiency and durability, and supported by integrated digital management, including cloud infrastructure, machine learning, microgrid systems, BIM, and digital twin technologies.

Among the advanced systems included are: Hydrogen Ready engines, multi-purpose heat pumps, plug & play solar cooling, free cooling, photovoltaic systems, and provisions for fuel cells. The new Gaslini will be an intelligent, autonomous, secure, and fully digital hospital, designed to optimize consumption, ensure operational continuity, and achieve LEED GOLD certification.

Watch the project's video

New Health and Innovation Park of Turin: 1040 beds

Turin

Typology:	Healthcare Architecture
Commissioning body:	SIS S.c.p.a. for the University Hospital Città della Salute of Turin
Provided services and scope:	Technical and Economic Feasibility Study, Detailed Design
Key project numbers:	Masterplan: 313.725 mq; Built Area: 167.000 mq; Healthcare Area: 130.000 mq; Project Value: **495.000.000,00 €**

The project involves the development of a Masterplan for the ZUT 12.32 area in the municipality of Turin, covering a land area of 313,725 m², with a gross floor area of 370,000 m². Within this site, several key facilities will be established: the New Healthcare and Clinical Training Hub, the Research Hub, the Education Hub, and the Residential Hub. The project reconnects the urban fabric by drawing on the positive aspects of the Lingotto area's transformation, enhancing links with the surrounding environment in a context between the Po River and the railway line.

The hospital, located in the northern part of the site, follows a podium-tower model with all diagnostic and treatment areas above ground. It will occupy 130,000 m² and be organized according to an adaptive departmental model designed to ensure flexibility, efficiency, and a patient-centered care pathway. The hospital will be expandable by over 22,000 m² and will include more than 3,000 m² of buffer spaces to handle any type of emergency. The building will be energy self-sufficient, powered 80% by renewable sources, with extensive use of groundwater from the Millefonti district. Designed in accordance with LEED, WELL, ITACA, and BREEAM standards, it will integrate advanced robotics and cutting-edge healthcare technologies.

University Hospital of Bologna - S. Orsola Malpighi Polyclinic

Bologna

Typology:	Healthcare Architecture
Commissioning body:	University Hospital of Bologna S. Orsola Malpighi Polyclinic
Provided services and scope:	Preliminary, Detailed, and Construction Design; Safety Coordination and Construction Supervision
Key project numbers:	Built area: 12.500 mq; Renovated: 11.750 mq; Outdoor area: 2.500 mq; Project Value: **30.330.806,73 €**

The redevelopment project involves the renovation of several key pediatric services located in Pavilions 16 and 13, including Imaging Diagnostics, the Operating Block, Pediatric Intensive Care, and daytime outpatient services. All functions related to childbirth will be consolidated in the historic Obstetrics and Gynecology Clinic (Pavilion 4, Wings A and C), which will be connected to a new building dedicated to high-care activities such as the Emergency Department, Surgical Block and Delivery Suite, and Neonatal Intensive Care Unit. The new volume stands out for its modern design, emphasizing seamless integration between interior and exterior spaces.

The architectural project is harmoniously integrated with the surrounding greenery, aiming to preserve and enhance the existing tree heritage while reestablishing a balance between the new built environment and the regeneration of the hospital's valued green landscape—historically one of its defining features.

New Galliera Hospital: 405 beds

Genova

Typology:	Healthcare Architecture
Commissioning body:	Galliera Hospitals Healthcare Institution - Genova
Provided services and scope:	Detailed Design, Safety Coordination during the Design Phase
Key project numbers:	Built area: 70.230 mq; Outdoor area: 23.500 mq; Project Value: **120.000.000,00 €**

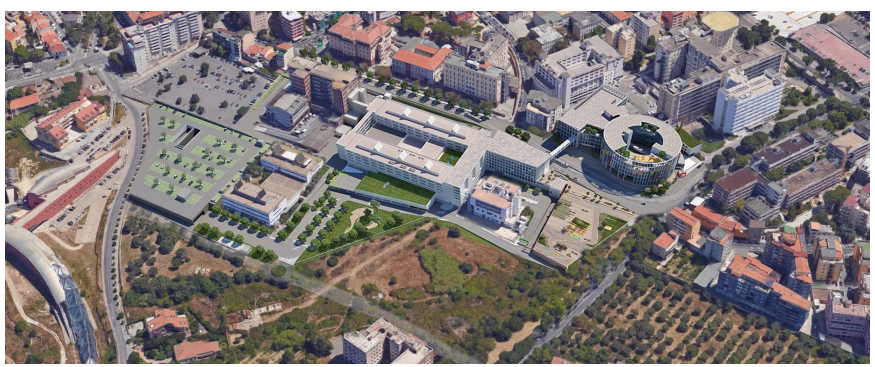
The project involves the construction of a total of 70,230 m², including parking facilities and technical service areas, distributed across eight levels, and providing a total of 405 beds. The most specialized functions—Emergency Department, Diagnostic Imaging, Laboratories, Operating Theaters, Intensive Care, Interventional Radiology, and Ultrasound—are concentrated on the lower floors (Levels 0 and 1).

The upper mid-levels (Levels 2 and 3) will host the high-traffic public services, such as Outpatient Clinics and Day Hospital, while the inpatient wards and the Maternity Unit, located near the obstetrics ward, will be positioned on the upper floors.

The basement level will serve as a parking area for both staff and visitors, with the eastern section dedicated to a rainwater harvesting tank for reuse. The ground floor will be complemented by an underground service yard for the Waste Management Hub (Isola Ecologica) and the volume of the Technology Center.

University Hospital of Sassari – Renovation and expansion: 900 beds

Sassari



Typology:	Healthcare Architecture
Commissioning body:	University Hospital of Sassari
Provided services and scope:	Detailed and Executive Design, Safety Coordination during the Design Phase
Key project numbers:	Built area: 85.000 mq; Outdoor area: 29.500mq; Project Value: **96.000.000,00 €**

The reorganization project of the University Hospital Complex of Sassari includes the expansion, upgrading, completion, and connection to the existing structures, covering a total area of over 85,000 square meters and providing 900 hospital bed.

The intervention area involves the entire urban sector, which is redesigned to host new and modern healthcare services, underground parking facilities, and a large public square accessible from the main avenue, which will be pedestrianized. On the eastern side of the hospital area, the demolition of the Palazzo Rosso will make space for the New Maternal and Childcare Center: a true urban landmark, acting as a hinge between Viale San Pietro and Via delle Croci. This iconic circular building features a central double-height patio and spans seven levels. It will be connected to the main hospital entrance via an aerial walkway and an underground tunnel

Mugello Hospital Facility

Florence

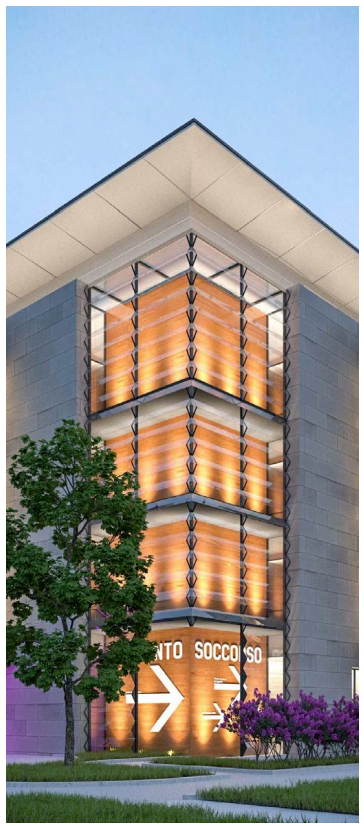
Typology:	Healthcare Architecture
Commissioning body:	Azienda USL Toscana Centro
Provided services and scope:	Detailed and Executive Design; Safety Coordination during both design and construction phases; Construction Supervision
Key project numbers:	Built area: 15.000 mq; Project Value: **28.531.285,00 €**

The project, originally driven by the primary need for structural reinforcement, includes not only major structural interventions but also numerous improvements aimed at ensuring, optimizing, and making technical-healthcare services autonomous. The redevelopment of the Mugello Hospital will restore the facility—after many years of anticipation—to a key healthcare stronghold for the region and beyond.

Our project involves significant works in construction, systems engineering, and healthcare infrastructure, including renovations, modernization, and expansions. Through a careful study of space placement and the physical and functional connections between processes, the design ensures high levels of safety and minimizes clinical risk—needs that are more critical than ever today. Meeting these goals will enhance the overall well-being of all users.

New Buzzi Pediatric Hospital: 40 beds

Milan



Typology:	Healthcare Architecture
Commissioning body:	Infrastrutture Lombarde S.p.a.
Provided services and scope:	Executive Design and Safety Coordination during the Design Phase
Key project numbers:	Built area: 12.100 mq; Outdoor area: 1.818 mq; Project Value : **29.017.959,10 €**

A hospital that combines essential functional, spatial, and technological innovation with the equally indispensable value of human, civic, urban, and social dimensions. The design takes into account the vulnerability of its young patients, aiming to create an environment where children can have positive, meaningful experiences during their hospital stay.

The therapeutic garden is a key feature of the hospital's strong integration with nature—an outdoor space designed to promote and enhance children's health and well-being. Its benefits can be experienced both passively (by simply observing or spending time in the garden) and actively (through gardening, rehabilitative therapy, and other interactive activities).

The rooftop is dedicated to an healing garden, accessed via a sensory ramp lined with aromatic plants, and connected to both the library and playroom. In the main entrance hall, interactive features are designed to engage young patients, helping transform waiting time into a more playful and comforting experience.

Healthcare

Urban Regeneration

Watch the project's video

New Livorno Area ex Pirelli Hospital: 500 beds

Livorno

Typology:	Healthcare Architecture
Commissioning body:	Azienda USL Toscana Nord Ovest
Provided services and scope:	Technical and Economic Feasibility Study in accordance with the NRRP Guidelines
Key project numbers:	Masterplan: 115.000 mq; Healthcare area: 70.000 mq; Project Value: **155.500.000,00 €**

The proposal envisions the redevelopment of Parco Pertini and the former Pirelli buildings through the construction of a new hospital, with the aim of returning a revitalized urban area to the city.

A new, highly organized and efficient single-block structure will rise within what was once a symbol of Livorno's "bourgeois elegance," restoring a renewed urban landscape through a transformation that merges the built environment with the public garden. Nature flows into the courtyards, climbs onto terraces and rooftops, creating true healing gardens.

The new volume is distinguished by soft, blended colors inspired by the works of Livorno's Macchiaioli painters, interspersed with reflective surfaces that visually extend the landscape into the building. Designed as an intelligent structure, it is tailored to the needs of both patients and medical staff, capable of delivering innovative clinical and surgical services.

This is a sustainable hospital, designed according to LEED environmental standards and classified as A4 – NZEB (Nearly Zero Energy Building), ensuring full energy self-sufficiency.

New Building for the “Principe di Piemonte” Hospital

Senigallia

Typology:	Healthcare Architecture
Commissioning body:	Marche Region
Provided services and scope:	Executive Design
Key project numbers:	Healthcare surface area: 8.430 mq Total project value: **24.750.000,00 €**

At the “Principe di Piemonte” Hospital in Senigallia, a new building dedicated to emergency services will be constructed— a strategic intervention financed under the National Recovery and Resilience Plan (PNRR), designed to strengthen the hospital’s emergency response capacity.

The structure, developed over three floors, will house essential spaces for managing urgent care: an Emergency Department designed to ensure quick and efficient access to treatment, an Intensive Care Unit equipped with cutting-edge technologies for critically ill patients, and state-of-the-art operating rooms built according to the highest standards of safety and functionality.

In addition to improving the quality of healthcare services, the project emphasizes structural safety and technological innovation. The use of advanced seismic-resistant systems and next-generation building services will ensure a resilient and efficient infrastructure capable of meeting the needs of the local area.

This intervention represents a significant step forward in the development of the regional healthcare system, providing modern facilities and cutting-edge equipment to handle emergencies more effectively.

Expansion of the Civitanova Hospital

Civitanova

Typology:	Healthcare Architecture
Commissioning body:	Azienda USL Toscana Nord Ovest
Provided services and scope:	Technical and Economic Feasibility Design
Key project numbers:	Built area: 70.000 mq; Total project value: **155.500.000,00 €**

The enhancement of Civitanova Marche Hospital** involves the construction of a new building dedicated to emergency services, designed to meet the needs of an increasingly efficient and cutting-edge healthcare system. This intervention combines technological innovation, functionality, and a strong focus on the well-being of both patients and healthcare workers.

The new facility will house key emergency functions, including areas for Short-Stay Observation, Emergency Medicine, Intensive Care – CCU, and a modern Surgical Block with a Central Sterilization Unit. These spaces are carefully designed to streamline workflows, improve the quality of care, and ensure maximum comfort.

A central feature of the project is its integration with the existing hospital structure: innovative architectural and MEP (Mechanical, Electrical, Plumbing) solutions will make the facility more efficient and high-performing. Special attention has been paid to environmental comfort, safety, and privacy, creating a welcoming, patient-centered healing environment.

This development marks a significant step in strengthening the region's healthcare network, offering increasingly specialized and accessible services to the community.

Historic Prison Complex «Le Nuove»

Turin

Typology: Redevelopment of Monumental Buildings, Design of Public Offices

Commissioning body: City of Turin

Provided services and scope: The Preliminary Design for the entire complex, along with the Detailed and Executive Design for Lots I and IV.

Key project numbers: Numbers of beds: 540;
Total project value: **36.028.833,26 €**

The project involved the repurposing and renovation of the historic “Le Nuove” prison complex in Turin to create the necessary spaces for the establishment of the Surveillance Court, the Justice of the Peace, the Telephone Interception Unit, and the Judicial Officers. This initiative enabled the centralization of all services supporting the Palace of Justice within a single logistical hub, leading to optimized information flows and reduced management costs for each entity.

The project, developed in compliance with the monument and environmental constraints to which the complex is subject, had three main objectives: to increase the surface area allocated to offices and archives, to redevelop the buildings as part of a broader urban and architectural renewal effort, and to reorganize the external spaces by expanding green areas.

Penitentiary Institute in Nola

Nola (NA)

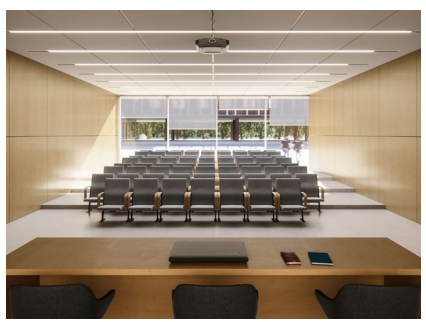
Typology:	Prison Infrastructure
Commissioning body:	Ministry of Infrastructure and Transport (Italy)
Provided services and scope:	Preliminary, detailed, and executive design, and safety coordination during the design phase.
Key project numbers:	Numbers of beds: 1.224; Total project value: **240.000.000,00 €**

The extensive area designated for the new Penitentiary Institute in Nola, within the Territorial Coordination Plan of the City of Naples, is strategically located near major roadways. The project is deeply rooted in the belief that the process of rehabilitation and reintegration of inmates into civil society also relies on the humanization of the environment and the flexibility of spaces, which must be reconfigurable to adapt to possible future developments.

Given the significant building volumes and surface areas involved, particular attention has been paid to the quality—including the aesthetic value—of the complex, as well as to environmental compatibility and sustainability, which have become increasingly important values. To meet this set of requirements, specific prefabricated construction systems have been selected, capable of reducing construction time while ensuring high-quality standards.

Police Cadet School

Alessandria



Typology: Military Infrastructure

Commissioning body: Ministry of Infrastructure and Transport

Provided services and scope: Preliminary, Detailed and Final Design, and Safety Coordination during the Design Phase

Key project numbers: Numbers of beds: 1.000;
Total project value: **63.568.984,73 €**

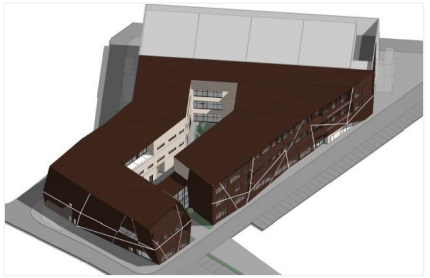
The project entails a complete redevelopment of the police barracks in Alessandria, transforming it into the largest police training school in Italy. The new structure, designed to accommodate 30 classrooms and 500 dormitory rooms, features a tiered form with increasing heights toward the exterior.

The glazed base ensures visual permeability with the two internal courtyards, while the upper part—housing the dormitories—displays a rigorous architectural language aligned with the interior layout. The height of the lower section corresponds to the surrounding buildings on the square and the new porticoed structure (two floors above ground).

The flow and access management has been conceived to replicate a university campus experience, ensuring integration between service spaces and the educational areas of the new building. The combination of technological solutions will result in the construction of new NZEB (Nearly Zero Energy Buildings): eliminating fossil fuel consumption and achieving zero local emissions (CarbonZero Building).

GBTS – Non-Commissioned Officers School of the Italian Air Force

Viterbo



Typology:	Military Infrastructure
Commissioning body:	Leonardo Global Solutions S.p.a.
Provided services and scope:	Preliminary, Detailed and Final Design, and Safety Coordination during the Design Phase
Key project numbers:	Built area: 10.000 mq; Total project value: **25.000.000,00 €**

The project involves the construction of a new building within the Air Force Non-Commissioned Officers School at the Viterbo Air Base Command, intended to host a new training system called the GROUND BASED TRAINING SYSTEM (GBTS).

The initiative concerns the implementation of a land-based training system used for the education of pilots and aeronautical operators through the use of simulators.

The intervention is divided into two main phases: an initial investigation stage and a second phase focused on engineering services related to the detailed and executive design.

San Vittore Prison

General Renovation and Structural Consolidation of Wings II and IV

Milan

Typology:	Correctional Facilities Construction
Commissioning body:	Ministry of Infrastructure and Transport
Provided services and scope:	Technical and Economic Feasibility Study, Detailed and Final Design, Safety Coordination during the Design Phase
Key project numbers:	Numbers of beds: 285; Total project value: **16.799.012,00 €**

The set of interventions is aimed at "addressing the emergency situation resulting from the excessive overcrowding of penitentiary institutions across the national territory." Wings II and IV, which are the subject of structural renovations and seismic upgrades, are currently uninhabitable.

Both wings consist of a basement level, a raised ground floor, and three upper floors. In particular, Wing II has undergone structural consolidation through the injection of expanding resins into the foundation level and external shoring works. The proposed solution includes the construction of one bathroom for every two cells (each cell accommodating two inmates), located on the interior side facing the corridor, and a shared area designated as a hallway/lounge facing outward.

New Penitentiary Institute of Forlì

Forlì

Typology:	Penitentiary Architecture
Commissioning body:	Ministry of Infrastructure and Transport
Provided services and scope:	Executive design, Health and Safety coordination during the design phase
Key project numbers:	Numbers of beds: 230; Total project value: **34.615.295,04 €**

The criteria adopted for the design choices—given that this was an executive update project aimed at the re-tendering of a work already under construction—were focused on maintaining the previously established design forecasts, both in terms of building and plant works, except for necessary adjustments due to updated regulatory and/or normative provisions, where applicable.

In particular, the proposed design included the adoption of a prefabricated structural system with reinforced concrete walls and pre-stressed slabs, new infill walls, insulation of cold slabs with rigid polyurethane foam, replacement and surface extension of the solar thermal collection system, replacement of the thermal vector fluid production system with groundwater heat pumps, and a cogeneration plant consisting of a containerized unit (201 kWe - 255 kWt).

Juvenile Detention Center of Pratello

Bologna

Typology:	Penitentiary Architecture
Commissioning body:	Interregional Public Works Authority for Lombardy and Emilia-Romagna
Provided services and scope:	Technical and Economic Feasibility Study and Final Design
Key project numbers:	Built area: 6.800 mq; Total project value: **7.773.587,28 €**

The seismic improvement, energy efficiency, and functional upgrading project of the Juvenile Penitentiary Institute "Piero Siciliani" represents a complex intervention straddling the restoration of historical buildings and the refunctionalization of sensitive structures in one of Italy's most renowned historic centers.

Due to the specific function of the Institute, the project development required particular attention in selecting the most appropriate construction technologies and meeting the standards set by the administration for such specialized spaces. The project is characterized by the adoption of the most advanced building and sustainability technologies, allowing for the adaptation of 15th-century structures to current seismic response requirements.

Moreover, through straightforward actions such as window replacement and system upgrades, the building complex achieves a high level of energy efficiency—an achievement that is far from trivial for Italy's historical architectural heritage.

Verziano Prison Facility

Verziano

Typology: Penitentiary Architecture

Commissioning body: Ministry of Infrastructure and Transport

Provided services and scope: Technical-Economic Feasibility Study, Detailed and Executive Design, and Design Phase Safety Coordination (2018 – ongoing)

Key project numbers: Numbers of beds: 500;
Total project value: **42.426.154,00 €**

Adaptation of the Penitentiary Institute to Local Needs through the Modernization and Compliance of Existing Buildings and the Construction of New Detention Facilities

The aesthetic and functional characteristics of the project result from a rationalized design approach aimed at fostering a path of re-education and reintegration of detainees into civil society.

To achieve the best thermal and acoustic performance, targeted interventions are planned on the building envelope to optimize the energy efficiency of both opaque and transparent elements, improving the internal functionality of the spaces. The design choices will ensure optimal living conditions while maintaining security and minimizing operational costs of the facility.

Former Cavalli Barracks

Novara

Typology:	Military Infrastructure
Commissioning body:	State Property Agency – Regional Directorate for Piedmont & Aosta Valley
Provided services and scope:	Technical and Economic Feasibility Study, Detailed and Final Design, Safety Coordination during Design and Execution Phases, and Works Supervision
Key project numbers:	Built area: 12.000 mq; Total project value: **13.420.731,41 €**

The construction of the Caserma Cavalli dates back to 1856 and it was used by the Army until the mid-20th century. The complex was built by the Ministry of Defense, mostly at the end of the 19th century, following a rectangular layout featuring four main buildings and other smaller structures arranged along the perimeter on all four sides. Together with the surrounding boundary wall, these elements form a continuous perimeter enclosure.

At the center of the area lies the parade ground, around which six other main buildings and two canopies are distributed. The uncovered surface is mostly paved in concrete or asphalt conglomerate, with the exception of the westernmost section, which is finished with slabs of Mergozzo stone.

Piave Complex – Institute for Police Inspectors of Nettuno

Nettuno

Typology:	Military Infrastructure
Commissioning body:	Interregional Public Works Authority for Lazio, Abruzzo and Sardinia
Provided services and scope:	Technical and Economic Feasibility Study, Detailed and Final Design, and Safety Coordination during the Design Phase (2020 - ongoing)
Key project numbers:	Numbers of beds: 500; Total project value: **37.250.500,00 €**

The planned interventions for the state-owned Piave complex, home to the Institute for Inspectors in Nettuno (Rome), are part of the broader project to reorganize and streamline the network of educational institutes across the country. The main goal of the project is to increase the Institute's accommodation capacity while enhancing and improving quality standards—both through the functional and structural restoration of existing buildings and the construction of a new facility.

Over the coming years, this state-owned compound will play an increasingly important role in supporting the educational, logistical, and organizational needs of various training courses, professional development programs, and advanced training for the State Police, as well as international cooperation and training initiatives with foreign police forces.

Watch the project's video

New Laboratory – National Institute for Nuclear Physics (INFN)

Frascati (RM)

Typology:	Advanced Research Laboratories
Commissioning body:	National Institute for Nuclear Physics (INFN)
Provided services and scope:	Preliminary, Detailed, and Final Design; Health and Safety Coordination during the Design Phase
Key project numbers:	Built area: 5.800 mq; Project Value: **21.500.000,00 €**

The construction of the new EuSPARC complex will significantly strengthen the Frascati National Laboratories, already recognized as a center of international excellence. The facility will house an Advanced Research Laboratory focused on emerging technologies for particle acceleration, becoming a key reference point for future users of coherent FEL radiation.

The architectural layout is shaped by the LINAC accelerator, the central spatial element around which all ancillary spaces are organized — including laboratories, modulator and experimental rooms, shared research and relaxation areas, offices, and service spaces.

The parallelepiped volume is sculpted by two significant cuts, creating terraces designed to house the air handling units (UTA). These are complemented by large green basins that create a seamless transition between the building's rooftop and the surrounding hillside landscape.

Headquarters of the Italian Embassy

Vienna

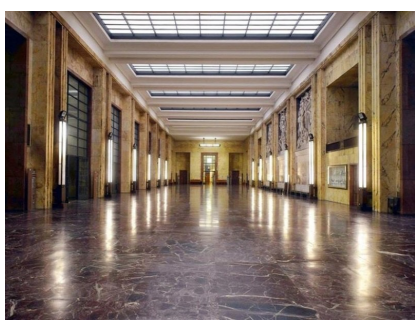
Typology:	Representative Buildings, Offices
Commissioning body:	Italian Embassy in Vienna
Provided services and scope:	Final and executive design, and coordination of safety during the design phase.
Key project numbers:	Built area: 3.000 mq; Total project value: **10.000.000,00 €**

The new architecture is defined by a compact volume, designed to ensure visual continuity and dialogue with the existing Palazzo Metternich building, reflecting its aesthetic and harmonizing with the colors of the surrounding context. Aligned with the city's development guidelines, the new structure is conceived as a contemporary addition that fits seamlessly among the existing buildings: occupying the space vacated by the previous construction, it redefines—and innovates—the entire block.

The building has been designed by blending the Italian tradition of architectural composition with the technological innovation of materials, emphasizing eco-sustainability and the highest safety standards. This is all done while respecting the character of the local urban fabric and aligning with existing urban planning and environmental directives.

Milan Courthouse

Milan



Typology:	Restoration of Historic Buildings, Public Representative Offices
Commissioning body:	Interregional Public Works Authority for Lombardy and Emilia-Romagna
Provided services and scope:	Enhanced Technical and Economic Feasibility Study according to PNRR Guidelines
Key project numbers:	Built area: 30.000 mq; Total project value: **65.000.000,00 €**

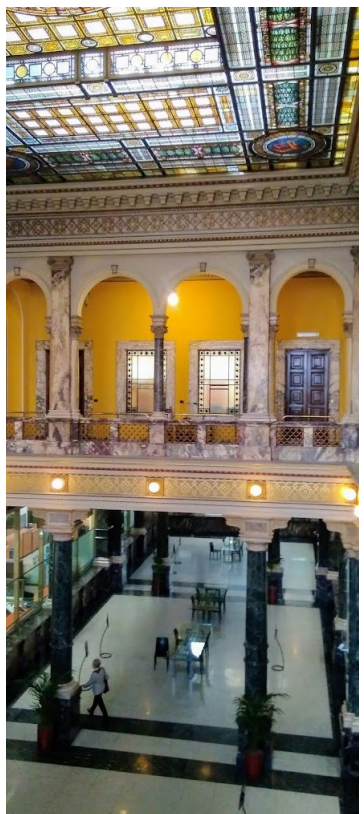
The building involved in the intervention is the Milan Courthouse, located in the block bordered by Via Freguglia, Via San Barnaba, Via Manara, and Corso di Porta Vittoria, designed by the renowned rationalist architect Marcello Piacentini.

The project includes energy and systems upgrades, restoration of the internal façades, and conservation of the architectural heritage elements of the courthouse.

The design focused on identifying innovative solutions capable of upgrading the building's technical features while fully respecting the original architecture of the site.

Bank of Italy – Turin Branch

Turin



Typology: Banks and Financial Institutions

Commissioning body: Bank of Italy

Provided services and scope: Preliminary, Final and Executive Design, and Construction Supervision

Tecnicaer was commissioned, under a framework agreement with the Bank of Italy, to design numerous interventions involving both architectural projects and works related to thermomechanical and electrical systems.

For the Piedmontese branches in Turin, Novara, Vercelli, Alessandria, Asti, and Cuneo, engineering services were carried out specifically focused on security systems and special installations.

Tecnicaer continues to develop projects and provide Construction Management for strategic works within banking facilities.

Watch the project's video

New Institute for Blood Cells and Tissue Research

Malta

Typology:	Research lab
Commissioning body:	Government of Malta
Provided services and scope:	Tender Design
Key project numbers:	Built area: 6.850mq; Total project value: **25.000.000,00 €**

The building, energetically self-sufficient, is characterized by high levels of safety and optimal organization and flexibility of space (hall and reception area, refreshment areas, meeting rooms, laboratories, and clean rooms). Particular attention was paid to defining the architectural and aesthetic image of the new volume and its interiors, promoting concentration, orientation, and user well-being. The materials used are inspired by Maltese public spaces; large light patterns, plants, and green surfaces positively influence users, conveying a sense of calm and tranquility.

The objective was to create a building strongly oriented towards the future while being integrated into the Maltese context, designed in accordance with major environmental sustainability protocols, aiming to achieve LEED Platinum certification in both the construction and operational phases.

New Department of Biology and Educational Complex

Pisa

Typology:	School Architecture
Commissioning body:	University of Pisa
Provided services and scope:	Preliminary, Detailed, and Final Design; Health and Safety Coordination during the Design and Construction Phases; On-site Construction Supervision.
Key project numbers:	Built area: 17.000 mq; Students: 2.200; Total project value: **57.500.000,00 €**

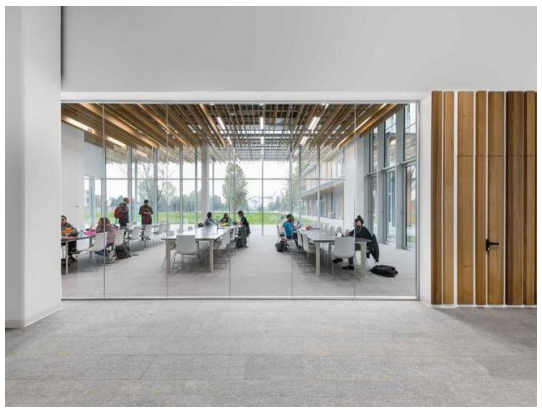
The project involves the construction of a new educational hub with over 2,200 classroom seats and teaching laboratories, allowing the consolidation of biological and chemical disciplines into a single area. The new development is designed as a four-story building above ground, featuring an open courtyard layout.

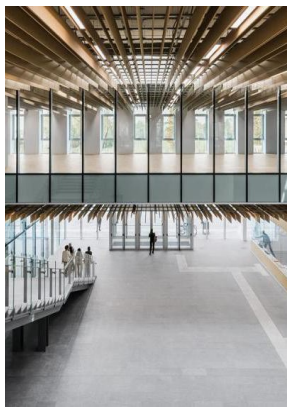
Functions have been grouped into clusters of related activities, distributed across the various levels of the building based on access points, orientation, and the specific quality and requirements of each space. The intervention aims to create a Campus 4.0, with social and gathering spaces both inside and outside the building volumes.

The design follows environmental certification protocols (LEED and ITACA) to achieve a Nearly Zero Energy Building (NZEB). The theme of environmental sustainability is reflected in the adoption of smart passive solutions that embody a vision of architectural quality and ethics.

University of Milan – Faculty of Veterinary Medicine

Lodi





Typology:	School Architecture
Commissioning body:	University of Milan
Provided services and scope:	Executive design and safety coordination during the design phase
Key project numbers:	Built area: 25.000 mq; Outdoor area: 40.000 mq; 2.500 students; Total project value: **41.786.300,00 €**

Executive design and safety coordination during the design phase for the project drafted by Kengo Kuma and Associates for the New University Campus in Lodi, dedicated to teaching and departmental activities of the Faculty of Veterinary Medicine of the University of Milan. The campus is divided into several lots:

- a new building housing classrooms, teaching laboratories, administrative functions, and general services (Lot 1);
- a facility dedicated to departmental and research activities (Lot 2);
- the expansion of the Zootechnical Center (Lot 3);
- and the Veterinary Hospital for Small Animals, where both teaching and clinical activities take place.

The project is inspired by the Sustainable Campus model, already tested in international contexts, and is fully integrated into its surroundings. It aligns with the latest advances in sustainability, with particular attention to environmental integration, material selection, energy efficiency, and the use of renewable energy sources.

Watch the project's video

Department of Veterinary Sciences

Pisa

Typology:	School Architecture
Commissioning body:	University of Pisa
Provided services and scope:	Preliminary, Detailed, and Final Design; Health and Safety Coordination during Design and Execution Phases; On-Site Project Supervision
Key project numbers:	Outdoor area: 50.000 mq; Students: 750; Built area: 14.000 mq Total project value: **39.500.000,00 €**

The intervention area covers a total surface of approximately 50,000 square meters, located to the south of the existing building housing the veterinary hospital, surgical rooms, laboratories, and faculty offices. The project involves the construction of three main buildings:

- The Department, designed to accommodate research activities (laboratories, service areas, offices for professors, technical staff and PhD students, meeting rooms, and a rest room);
- The Educational Hub, which houses community and social spaces (classrooms, library, study hall, and cafeteria);
- The Dairy Facility, characterized by spaces with educational functions.

The design embraces the characteristics of a green university campus, with architecture that harmoniously integrates into the agricultural landscape. It provides students with all the necessary services for academic activities while ensuring strong connections with the surrounding environment through publicly accessible areas such as the large park, the library, the dairy facility, and the restaurant.

The National Emergency Management Center

Rome

Typology:	Representative Architecture, Offices
Commissioning body:	Ministry of the Interior – Department of Firefighters, Public Rescue and Civil Protection
Provided services and scope:	Detailed and Executive Design; Design Coordination during the Design Phase
Key project numbers:	Built area: 7.000 mq; Total project value: **22.500.000,00 €**

The project addresses the needs of the National Fire and Rescue Service (VV.F.), which seeks to equip itself with a facility for coordinating national emergency management activities—efficient, technologically advanced, and equipped with suitable spaces for personnel on 24-hour duty. The goal is to ensure integrated response capabilities involving all technical and administrative staff engaged in the organization, management, and coordination of emergency scenarios.

In this context, the new building complex has been designed to meet safety (both safety and security), seismic resistance, and technological functionality requirements. The design includes a basement level, a ground floor, and two upper floors, structured to accommodate crisis rooms, an auditorium, lodging facilities, offices, training classrooms, meeting rooms, and the Data Center (CED).

New Primary School in Spino d'Adda

Spino d'Adda

Typology:	School Architecture
Commissioning body:	Municipality of Spino d'Adda
Provided services and scope:	Technical-Economic Feasibility Design, Detailed and Final Design, Works Supervision, and Health and Safety Coordination during Design and Execution Phases (2019–2020)
Key project numbers:	Outdoor area: 4.750 mq; 375 students; Total project value: **6.683.088,52 €**

The project involves the design of the new primary school in Spino D'Adda (for 375 students), following the demolition of the existing building.

The design adheres to ministerial guidelines, with a specific focus on new pedagogical methods, energy efficiency, safety of people and spaces, and aims to enhance the surrounding urban fabric by serving as a true "Civic Center." The plan includes interconnected volumes within the school building, also accessible to the public, with a dedicated entrance and parking area. These include a 142-seat auditorium, an A2-type gymnasium, a cafeteria, and a library.

The Spino D'Adda primary school features a mixed wood and concrete load-bearing structure, where the thoughtful and conscious use of materials and forms has shaped the overall architectural language of the project.

Primary School in via Viscontini

Milan

Typology:	School Architecture
Commissioning body:	Municipality of Milan
Provided services and scope:	Detailed and Final Design, Health and Safety Coordination during Design and Execution Phases (2015–2017)
Key project numbers:	Built area: 7.500 mq; Outdoor area: 12.700 mq; 600 students; Total project value: **10.417.868,66 €**

A new elementary school built entirely with a load-bearing wooden structure, where the careful and conscious use of materials and shapes helped define the overall architectural language of the project.

A covered central plaza distributes access to the service area, which houses spaces open to the community—such as a 200-seat auditorium, a gymnasium for up to 450 people, and a library—strategically positioned toward the neighborhood, each with dedicated entrances and parking areas. The design choices aimed to create a low environmental impact building: the school is classified as an A4 energy class and meets NZEB (Nearly Zero Energy Building) standards.

A participatory design process was also implemented, involving adults (teachers, school staff, parents, associations) and children alike, to ensure their needs and suggestions were heard and incorporated.

Salerno Costa d'Amalfi Airport Expansion

Salerno

Typology:	Airport Infrastructure
Commissioning body:	Airport of Salerno Costa d'Amalfi S.p.A.
Provided services and scope:	Preliminary, Detailed, and Final Design; Health and Safety Coordination during the Design Phase
Key project numbers:	Built area: 3.125 mq; Total project value: **6.100.000,00 €**

The project involved the construction of three new buildings serving airport operations (General Aviation Terminal, Airport Fire Brigade Station, Ramp Vehicles Facility), as well as the reorganization of external areas (parking lots, extensive landscaped green spaces, taxi service and short-term parking areas, bus shelter, and internal roads). The entire development aimed to seamlessly integrate the new structures into the surrounding urban and agricultural landscape, leading to the definition of a "Green Airport."

The volume of the new General Aviation Terminal is characterized by rational and clear spatial distribution, combining an international architectural language with high-quality regional materials. The building-plant system is highly efficient, achieving zero CO_2 emissions and aligning with NZEB and Carbon Zero building standards.

Bologna Bus Terminal

Frascati (RM)

Typology:	Infrastructure and Transport
Commissioning body:	Bologna Bus Terminal S.r.l.
Provided services and scope:	Definitive and Executive Design, Health and Safety Coordination during Design and Execution Phases, and Construction Supervision
Key project numbers:	Built area: 16.300 mq; Total project value: **6.500.000,00 €**

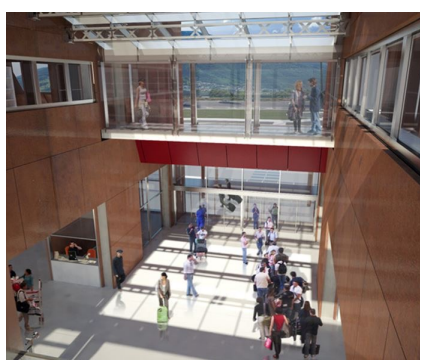
The project aims to enhance the existing facility by transforming it into a modern passenger transport interchange hub, while simultaneously increasing the appeal of the internal commercial services through spatial reorganization and the redefinition of certain functions.

The expansion of existing volumes, the redevelopment of the public space in front—designed as a new urban square—and the complete internal restructuring are intended to establish a new "Urban Polarity": no longer just a bus terminal, but a green building with Nzeb (Nearly Zero Energy Building) standards, hosting a mobility hub alongside commercial, tertiary, exhibition, recreational, and leisure activities.

The new façade is designed as a contemporary, dynamic skin that shields the building from external elements while presenting a refreshed and engaging presence toward the new square.

Airport of Aosta

Aosta



Typology:	Airport Infrastructure
Commissioning body:	AVDA Aeroporto Valle d'Aosta Corrado Gex
Provided services and scope:	Preliminary Design of the Entire Complex; Detailed and Executive Design for Lots I and IV
Key project numbers:	Built area: 3.790 m2; New Aircraft Apron: 9,300 m² New Road System and Land Side Parking Areas: 10,000 m². Total project value: **10.198.432,55 €**

The project involves the enhancement and expansion of the Corrado Gex Airport in Aosta, including the construction of a new passenger terminal, new aircraft aprons, new utility plants with an adjacent building, and redesigned road systems, redefining both the Air Side and Land Side areas. The new terminal, oriented along the runway's East-West axis, is a compact building measuring 81 x 28.5 meters across two floors. It consists of eight square towers (9 x 9 meters and 12.25 meters high) connected by three light and transparent elements that define the entrances and exits. These elements also serve as protective canopies for passengers and link the towers via metal walkways on the first floor.

The volumes of the towers and canopies are anchored at the eastern and western ends by two solid blocks, each 15 meters tall, housing vertical circulation, service areas, and mechanical rooms. The towers, featuring coffered ceilings, accommodate departure and arrival halls, offices, a café, and retail spaces on the ground floor. The glazed atriums are bright transit areas offering varied visual perspectives.

Control Tower – Linate Airport

Milan

Typology:	Airport Infrastructure
Commissioning body:	ENAV S.p.A.
Provided services and scope:	Design of building systems; integrated contract for executive design and execution of the works
Key project numbers:	Built area: 16.300 mq; Roof height of the TWR: 47 meters; Total project volume: 18,000 cubic meters. Total project value: **15.286.932,92 €**

The Control Tower (TWR) is part of the design for the new Airport Center at Milan Linate. To achieve a design quality appropriate to the importance of the project, close collaboration between the various disciplines was required, made possible by the strong involvement of the Client's Management team, ENAV S.p.A. The project is located south of the Passenger Terminal, between the southern entrance of the seaplane base and the northern boundary of the Municipality of Peschiera Borromeo. The new Technical Block and Control Tower represent the operational heart of the airport activity, replacing the existing tower.

The site layout includes five functionally interconnected buildings: Technical Block 1, housing offices and accommodation facilities; Technical Block 2, hosting the equipment room; Technical Block 3, the energy block; The Hall, for reception, security, and access control; The Conference Room. The central element of the project is the TWR. Entry to the Airport Center is through the Hall, located on the west side of the site and aligned with the tower's shaft. The design team, in collaboration with the Client and other partners, carefully studied the best possible orientation of the buildings and the surrounding layout. Even the landscaping and green areas play a key role in enhancing the experience of the new Airport Center from the outside.

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