



**Progettisti Associati Tecnarc s.r.l.**

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**Progettisti Associati Tecnarc srl** è una società di ingegneria e consulenza in evoluzione ininterrotta da oltre 50 anni. Le capacità manageriali, ma più ancora il contenuto culturale e tecnico dei servizi resi, ne fanno una Società di progettazione integrata aggiornata ed in costante progresso, sensibile non soltanto alle mutazioni del mercato e delle discipline di appartenenza, ma soprattutto alle crescenti esigenze di qualità e di efficienza. L'organizzazione accoglie al suo interno tutte le competenze per offrire prestazioni qualificate nell'ambito di opere pubbliche e private.

**Vision:** La consapevolezza del rispetto del Committente, del valore delle opere realizzate e dell'utente finale unita a quella della responsabilità che deve assumersi chi trasforma l'ambiente, collocano la professionalità di Progettisti Associati Tecnarc in una dimensione etica del fare.

**Esperienza:** Progettisti Associati Tecnarc offre servizi di ingegneria, consulenza e progettazione in architettura e ingegneria. Avendo maturato nel tempo importanti esperienze in tutti i settori edilizi e impiantistici ha una spiccata propensione alla gestione dei problemi organizzativi, progettuali e finanziari connessi con la realizzazione di un'opera edilizia, con la razionalizzazione dell'uso dell'energia, con l'automazione del sistema edificio e con il razionale utilizzo dell'ambiente secondo un approccio ecologico. Fornisce prestazioni multidisciplinari e integrate con un metodo di lavoro fondato sull'approccio globale ai problemi e sullo sviluppo coordinato delle soluzioni. Progettisti Associati Tecnarc ha acquisito una rilevante esperienza tecnico specialistica nel settore ospedaliero, sviluppando progettazione e direzione lavori di importanti realizzazioni su tutto il territorio nazionale.

**Certificazione di qualità e ambiente:** certificata secondo lo standard UNI EN ISO 9001:2008 – Certificato N. 3019/2 e secondo lo standard UNI EN ISO 14001:2004 - Certificato N. 0393A/0.

**Associazioni:** Progettisti Associati Tecnarc è socia dal 2008 del Green Building Council con l'obiettivo di sviluppare l'edilizia sostenibile secondo il sistema di classificazione LEED, Leadership Energy and Environment Design. E' altresì socia di Ashrae, organizzazione di ingegneria di rilievo internazionale, e di AICARR, associazione italiana condizionamento dell'aria riscaldamento e refrigerazione.

**Mythos:** Progettisti Associati Tecnarc è socia fondatrice di Mythos, Consorzio Stabile operante nel campo dell'ingegneria e dell'architettura. ([www.Mythos.pro](http://www.Mythos.pro))

*Progettisti Associati Tecnarc srl is evolving architectural and engineering project design and management capabilities over 50 years. It is a well established design and consultancy firm sensitive to the constantly changing needs of the market and to the increasing demand of quality and efficiency. The firm is proficient to supply strategies as well as practical design solution for private and public works. A marked inclination towards the management, the planning and financial issues related to construction, to the energy use rationalization and to the building system automation, give the firm the capacity to approach a wide range of projects and to enhance organizational performance. PAT is highly specialized in healthcare, having developed projects, supervisions of works and consultancies of important realizations all over Italy.*

**Vision:** *The firm ranks in an ethic dimension for the importance given to the client as well to the final users, to the value of the building itself and to the environment modification. It is committed to delivering integrated architectural and engineering services at every scale of work, from long term to urgent and practical design issue. The highly qualified team guarantees the delivery of the project within time and budget constraints and reliability in the project process and its control.*

**The Quality Management and Ambient System** operated by Progettisti Associati Tecnarc srl is in compliance since April 2004 with the standard UNI EN ISO 9001:2008 and UNI EN ISO 14001:2004

**Associations:** Progettisti Associati Tecnarc is member of the Green Building Council with the aim to develop sustainable architecture according to the LEED system, Leadership Energy and Environment Design. Progettisti Associati Tecnarc is also member of Ashrae and AICARR, society of heating, refrigerating and airconditioning engineers.

**Mythos:** Progettisti Associati Tecnarc is member of Mythos, a stable consortium operating in the field of architecture and engineering. ([www.Mythos.pro](http://www.Mythos.pro))



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### Project Management

- Strategic Brief
- Schedule, control and coordination
- Budget administration, design and construction management

### Integrated research and planning

- Systems analysis
- Material, architecture and environment modification
- Workplace and furniture
- Medical and laboratory equipment and services
- Structures
- Technologies for electric, hydric and thermic energy production and delivery
- Communication, safety and control system
- Transports
- Design development, construction documents, supervision of works, accounting
- Tender documents
- Cost benefit analysis and possible solutions

### Feasibility study

- Urban design
- Reorganization of existing hospitals and new master plan
- Organizational models
- Project financing

### Workplace

- Building appraisal (architecture and services)
- Strategic brief
- Space planning
- Rearrangements
- Interior design
- Move in/out

### Supervision and work management

- Workplanning
- Services supply management
- Final inspection service
- Accountancy and settlement

### Energy

- Energy analysis and diagnosis
- Optimization of energy use
- Technical and economic feasibility analysis
- Project of production systems, efficiency and wasted energy regeneration
- Analysis and design of optimal management systems through computerization and plant monitoring
- Energy Performance Certificate

### Infrastructure

- Drainage and water purification plants
- Environment reclamation and ecological consistency
- Aqueducts
- Transport feasibility study
- Roads and lighting
- Recycling and dumping

### Safety management

- D.Lgs 81/2008 safety in design and construction
- D.P.R. 12.01.98 n. 37 D.M.10/03/98 security and fire regulations

### Quality Management System

- Validation

### LEED Protocol

- Evidence Based Design
- Life Cycle Assessment
- Green Building Concept
- Advice for LEED Certificate



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**Ragione Sociale**  
**Capitale Sociale**

Progettisti Associati Tecnarc S.r.l.  
€ 100.000,00

**Sede Legale**

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**Fatturato degli ultimi anni**

|      |                |
|------|----------------|
| 2000 | € 2.141.746,76 |
| 2001 | € 2.812.873,58 |
| 2002 | € 2.228.059,00 |
| 2003 | € 2.723.285,00 |
| 2004 | € 2.640.419,48 |
| 2005 | € 2.103.141,00 |
| 2006 | € 2.388.075,92 |
| 2007 | € 1.851.877,46 |
| 2008 | € 2.143.698,06 |
| 2009 | € 1.892.313,00 |
| 2010 | € 1.991.606,00 |
| 2011 | € 1.328.464,00 |



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**Client:** "Ospedali Riuniti" Hospital  
**Activity:** International competition, preliminary, detailed and technical design; tender documentation; supervision of works; accounting and final inspection.

**Number of beds:** 1200

**Gross Area:** 185.000 m<sup>2</sup>

**Cost of works:** € 208.814.000,00

**Date:** 2000 Competition – 2004 Tender Documentation– 2005 start works

**Status:** Work in progress, completion expected in 2012

The design process started with an international design competition won in the year 2000; its completion is dated October 2011.

The design for the general acute 1000 beds hospital addressed the key elements of the brief with a simple but efficient scheme: a central diagnosis and treatment 3 storeys block and an external ring of seven ward towers and out-patient areas that allow fast connections within each department.

The access areas, the ward towers, the out-patient departments, and the central treatment area are connected by an internal glazed arcade, the "hospital street", treated as a public area. The building lies harmoniously in the surrounding landscape, characterized by a wide green belt and cycling paths.

The commitment required to designers and site engineers was wide and complex, since it ranged from geological and archaeological site surveys to design development, biomedical technology and furniture planning, supervision of works and training of personnel. As the area given was known for its large amount of groundwater and for the low soil's bearing capacity, the designers chose the gravel columns injecting technology as a strategy for soil consolidation, avoiding removal of any natural material. All vertical and horizontal foundations are waterproof.

## New "Giovanni XXIII" Hospital in Bergamo



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The use of warm and soft tones of finishing materials, the design of wide lounge areas, large windows in the patient rooms and the solar shading system, both on the vertical and horizontal glass units, grant comfort for patients and staff. An overall climatic wellness is achieved with radiant heating and cooling ceiling panels in the ward rooms and under floor panels in the Hospital Street. Way finding is achieved with transparency, natural lighting, differentiated colours of pavement and coating and signing.

## New “Giovanni XXIII” Hospital in Bergamo



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**Client:** Azienda ULSS17  
**Activity:** executive design  
**Number of beds:** 450  
**Gross Area:** 206.000 m<sup>2</sup>  
**Cost of works:** €128.734.798,65  
**Data:** 2010  
**Status:** completed

Within the design team we have dealt specifically with the technical architectural design of the wared roof and basements, the technical design of mechanical and electrical systems that serve them, the final design of transportation facilities. The particular location of the new hospital in the middle of Euganei's Hills, has inspired the architecture of the buildings. Infact the special continues coverage takes inspiration from the skyline of the surrounding landscape. The hospital, which has 450 beds, is structured in three separate parts. The service area is partly underground and is designed as a large multi-purpose floor. It includes the Emergency Department, Radiology, the

Operating Theatres, the Day Surgery Ward and the Sterilization Centre, plus the accounting and technological services. The two-storey high entrance hall is correctly situated here, with an excellent functional relationship between the various departments and proper separation of each.

The project proposal has its strengths in reducing energy consumption achieved by the installation of a trigeneration plant, a geothermal system and the use of solar energy for the production of domestic hot water and electricity generation. Finally, attention to the sustainable development has been extended to the recovery of the meteoric waters for the feeding of a network dedicated to the toilet discharge and to the tank fire, as well as the use of timed faucets to reduce the consumption of drinking water. All the solution for the reduction of energy consumption will save about the 25% of the energy needs of the hospital. This reduction of primary energy will result in a related reduction of pollutant emissions equal to 4015.9 tons CO<sub>2</sub>/year



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**Client:** INSO, Sistemi per le Infrastrutture Sociali S.p.a.

**Activity:** Preliminary and technical design and safety management.

**Number of beds:** 500

**Gross area:** 102.000 m<sup>2</sup>

**Cost of works:** € 113.499.975,00 (service systems, co-ordination of safety)

**Date:** 2006 - 2007

**Status:** Completed

The complex consists of three main bodies: the reception area, the technical area and the buildings containing the in-patient wards. PAT was in charge of designing the power plants and for production of heating and cooling fluids as well as of the main and terminal distribution systems for services, complying with the current requirements concerning containment of consumption. For this reason, heat pumps with well-water condensation and co-generation with two different fuels are provided, supported by solar energy for the production of both heat and power. The use of rain water for technological purposes and

fire-prevention is also envisaged.

**The transport project:**

The project covers all the lifts for people, goods and stretchers, escalators and hoists), depending on the various different healthcare and administrative functions and on the basis of the foreseeable flow of visitors. It also includes design of the automated heavy and light transport systems for programmable transport of large items, for small and medium-sized items and for fast one-way connections towards the laboratories, all the operating areas and the accident and emergency department.

**Safety and sustainability:**

The whole complex has a "distributed intelligence" control and monitoring system for the service systems, the alarm system, the fire-detection system, the access control system and data filing. The wiring system is able to overcome any type of blackout since it is split up among four sub-stations equipped with generating sets interconnected with one another and with the main medium-voltage distribution ring.

The new Hospital in Vimercate



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**Client:** "Le Scotte" Polyclinic  
**Activity:** Functional re-organisation masterplan  
**Number of beds:** 1.000  
**Gross area:** 160.000 m<sup>2</sup>  
**Cost of works:** € 70.947.00,00  
**Date:** 2001

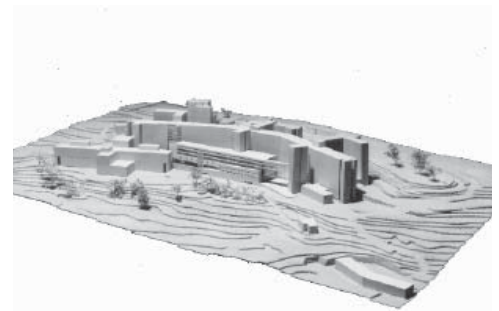
The aim of drafting a plan for the re-organisation and development of the "Le Scotte" polyclinic in Siena is particularly original in the context of re-qualification plans for Italian hospitals, as it is a genuine plan for organic and integrated development. It tackles all the problems at the same time, proposing solutions carefully harmonised with one another and interprets the future trends of practical medicine. Starting out from the basic problems of the complex, the plan calls for activities distributed over a period of time of ten years with an overall financial commitment exceeding 72 million euros. It will give rise to a total surface area of

160.000 m<sup>2</sup>.  
In addition to increasing the total surface area, so that it will suit the mixed healthcare and university functions, the plan enables the creation of new functional areas that do not exist at this time such as day surgery, private out-patient surgeries, rehabilitation and management of general services.

Its validity as a planning tool has been proved over the years up to the present time, during which it formed the framework within which the activities planned progressively were carried out consistently.

The two "master" activities from which all the others originated are: the creation of a services area, and the definition of two squares, one of which for persons and the other for goods, thus re-organising both the outside road system and the network of internal paths. The vertical transport paths were rationalised with the creation of three new columns and the introduction of an automated transport system.

## Re-organisation and development masterplan, Polyclinic Le Scotte, Siena



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**Client:** "Le Scotte" Polyclinic

**Activity:** Preliminary design for tender competition, supervision of works; safety management

**Number of beds:** 17 treat. rooms; 68 beds

**Gross area:** 23.000 m<sup>2</sup>

**Cost of works:** € 18.200.000

**Date:** Project 2006

**Status:** 2010

Creation of a new building to broaden the central functions of the hospital had already been envisaged in the 2001 Re-organisation and Development Plan. In the light of the new regulations and of the fact that accident and emergency medicine has a strategic role in the organisation of a modern hospital, the organisation of the whole Accident and Emergency Department has been thoroughly reviewed and a study for a new model of department has been developed, calling for a new 19,600 m<sup>2</sup> with a car park, an accident and emergency unit, a trauma centre, a diagnostics unit, an emergency medicine unit, day surgery, operating theatres and resuscitation.

The building will be connected to the hospital at every level and a lift tower will be extended on the roof to support a helicopter pad. A survey was conducted in 2008 to investigate the variant enabling better integration of the Accident and Emergency Department with the future layout of the Polyclinic and to review some organisational aspects according to more up-to-date management theories. The Accident and Emergency Unit has been reviewed and enlarged according to an "open-space" approach facilitating multi-disciplinary work and immediate intervention of the personnel and the quality of patient management in single cubicles.

Large out-patient areas are provided on the other levels for follow-up activities as well as a 24-hour observation ward, and highly technological operating theatres to supplement the main operating theatres. A new floor has been added for future expansions.

The building is characterised by its compact size, structured so as to fit into the context and in relation to the existing building to which it is connected.

The new ED opened in 2010.

## New Emergency Department Polyclinic Le Scotte, Siena



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**Client:** ULSS n°3 Bassano del Grappa (VI)

**Activity:** Integrated design and site engineering services

**Number of beds:** 837

**Gross area:** 98.109 m<sup>2</sup>

**Cost of works:** € 109.760.000,00 (1997 prices)

**Date:** From 1982 to 2006

**Status:** Completed

The design work was started in 1982 and was based on a platform and tower. It consists of three underground levels for service systems and general services, two storeys for the diagnostic and treatment services including a set of 14 operating theatres, a technical mezzanine floor (the third) and nine floors for the wards. The main building has other buildings connected to it containing offices, training schools, psychiatric services, a morgue, control rooms for technological services, stores, a canteen. The activity is characterised by the high quality standard both of the design approach and of the integration of the building and technological systems as well

as of the equipment and finishings. All this enabled subsequent accreditation of the structure. The plant-engineering technology is state of the art and features the following:

- Energy-saving was one of the musts of the project and has been achieved by means of the air-conditioning system of the wards based on free-cooling thanks to an air-based system with double piping and electric post-heating connected to the co-generation heating plant, air-light lighting fixtures capable of eliminating the production of heat by the lighting system, a high level of insulation of the cladding, the use of under-floor heating panels in the large entrances;

- Soiled linen and waste are carried by means of a pneumatic system from the laundry room serving the wards to the automatic laundry and to the waste treatment, compacting and disposal centre respectively;

- Light loads are handled by a 7-kg carrier;

- The presence of an innovative hospital-type turbogas co-generation system supplies the first two dual-stage refrigeration units installed in Italy.

## New Hospital in Bassano del Grappa, Vicenza



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**Client:** AMCD

**Activity:** Design brief and masterplan

**Gross Area:** 43.000 m<sup>2</sup> hospital space  
8.000 m<sup>2</sup> residential area

**Beds:** 380

**Date:** 2010

The new African Medical Centre of Douala (AMCD) will be the first modern hospital in Cameroon and it will be the first significant medical excellence within the entire CEMAC area (Communauté Economique et Monétaire de l'Afrique Centrale). Besides the most updated medical technologies the project will include 8000 sm residential development, retail, an hotel and a research centre. The new AMCD is planned to include all the necessary programs and departments to support a fully functional 24 hours medical service. The ward units are flexible and may be easily reorganized according to necessity. The hospital is designed in respect of the local regulations and European standards

concerning healthcare spaces, design for the disabled, fire and security; the project will be assessed following the LEED protocol, to achieve the highest possible level of sustainability.

The AMCD is gracefully positioned on the area, surrounded by the native vegetation and facing the existing Dibamba river. New paved roads provide separate access to the goods delivery, the emergency services, the pedestrian entry and the drop-off areas. The treat and care services are organized on a two floors building, connected to the wards building that faces the river.

At the groundfloor the main entry to the hospital opens into a big atrium where people meet and distributes to the out patient rooms, and to the diagnosis and care services.

The 360 beds hospital includes:

Surgery/Orthopaedic and Traumatology

- Oculistic, Ostetric & Pediatric

- Internal medicine/oncology/ACrdiology.

-10 Operating Theatres

- 18 Day Surgery beds

- 18 intensive Care beds

- Imaging. Xr, CTScan and Magnetic Resonance Imaging (MRI)

## African Medical Center in Douala, Camerun



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**Client:** Siemens S.p.A.

**Activity:** detailed and technical design, project management

**Gross Area:** 3300 m<sup>2</sup>

**Cost of works:** € 7.666.352,99

**Date:** 2004-2008

**Status:** completed

The Microcytaemia and Businco Hospitals are important national hospitals for treating tumours and diseases of the blood.

The new radiotherapy building is partly below ground level, built against the slope of Mount San Michele, both in order to reduce the volume above ground and to facilitate protection against the radiation from the bunkers.

The slim main body houses the out-patient departments, diagnostic facilities and wards and runs parallel to the slope, enjoying the best frontage.

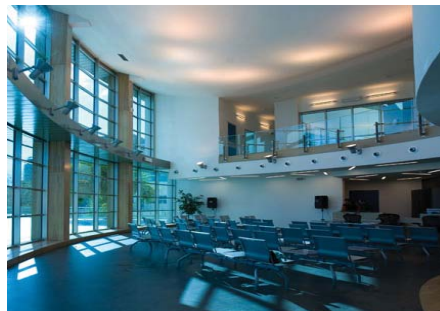
The volume is fairly simple and linear, with slight staggering of the front to separate

the different internal functions and differences in height as on the roof, where the sub-systems are located, protected by a light shed which has cone-shaped holes in the top to allow the natural light to enter.

Since this is the building where all the diagnostic activities and hospital and out-patient treatments take place, the emotional impact on patients was carefully considered. The entrance hall, an area of transition between outside and inside, is interpreted as a place in which to inspire confidence and security: natural light, dynamic shapes, integration with the flows and natural colours and materials are the tools used.

This area houses the regional oncological reference centre and a library.

## Nuclear Medicine and Radiotherapy, Cagliari



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**Client:** Pessina Costruzioni S.p.A.

**Activity:** preliminary, detailed and technical design of technological systems

**Beds number:** 150

**Gross Area:** 24.000 m<sup>2</sup>

**Construction cost:** € 16.907.481,14

**Date:** 2008

**Status:** design completed, opened in 2012

The new rehabilitation and research centre, in coherence and continuity with the tradition and competence of Don Gnocchi Foundation, is set as a modern and state of the art structure serving the whole metropolitan area of Florence, Tuscany.

It will be dedicated to give assistance and care following the increasing complexity in connection with the scientific and technological progress in neurodegenerative disease and handicap.

It is organized upon four functional areas:

- 150 beds residential units for acute and sub-acute;
- Diagnosis, care and research;

• Teaching, conference, administration;

• General services.

The new building is set in the landscape realizing a visual and direct relationship with it, due to the flat and horizontal layout, with many courtyards and openings towards the hills.

The grid like scheme allows the use of several public spaces both internal and external that allow fluidity in circulation, "void" areas for resting and relaxing apart from more intense sanitary areas, adding more natural lighting and ventilation.

All technological services are placed on the roof in correspondence with the served areas: length and crossing of ducts are minimized, all support areas like electrical equipment, data centres, special services are directly reached.

All supplies are designed for maximum energy saving, flexibility in use and maintenance. A cogeneration power station produces energy and fluids, while solar panels reduce by 50% the energy demand for water heating.

# New Rehab and Research Centre, Don Gnocchi, Florence



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**Client:** Polyclinic of Modena  
**Activity:** preliminary and detailed design  
**Gross Area:** 10.340 m<sup>2</sup>  
**Project Cost:** € 13.382.585,10  
**Date:** 2008-2009  
**Status:** project completed

The new Research and Analysis Lab is part of a joint project between the Hospital and the University, aimed to the rationalization of the whole laboratory system.

The new building will be located in a green area on the southern side of the Hospital and will be connected to the main building in front.

It is laid parallel to the existing hospital and it appears as a linear volume articulated by the mutual interchange between glazed and opaque surfaces; also it is slightly rotated at the junction with the connecting bridge in order to allow the opening of a wider atrium and to emphasize the relation between the two.

The building will activate new spatial

relationships with the surrounding environment, expressed by the accesses system, the internal lay out and the different treatment of the façade.

Distributed over 5 levels are the following functions: General stores, Work places enjoy plenty of natural light at all levels: S-W and S-E elevations are a glazed double skin façade with integrated solar shading system and works as a highly insulated layer; N-E and N-W elevations appear different with a massive wall with a wooden cladding.

## New Research and Routine Laboratory, Polyclinic of Modena



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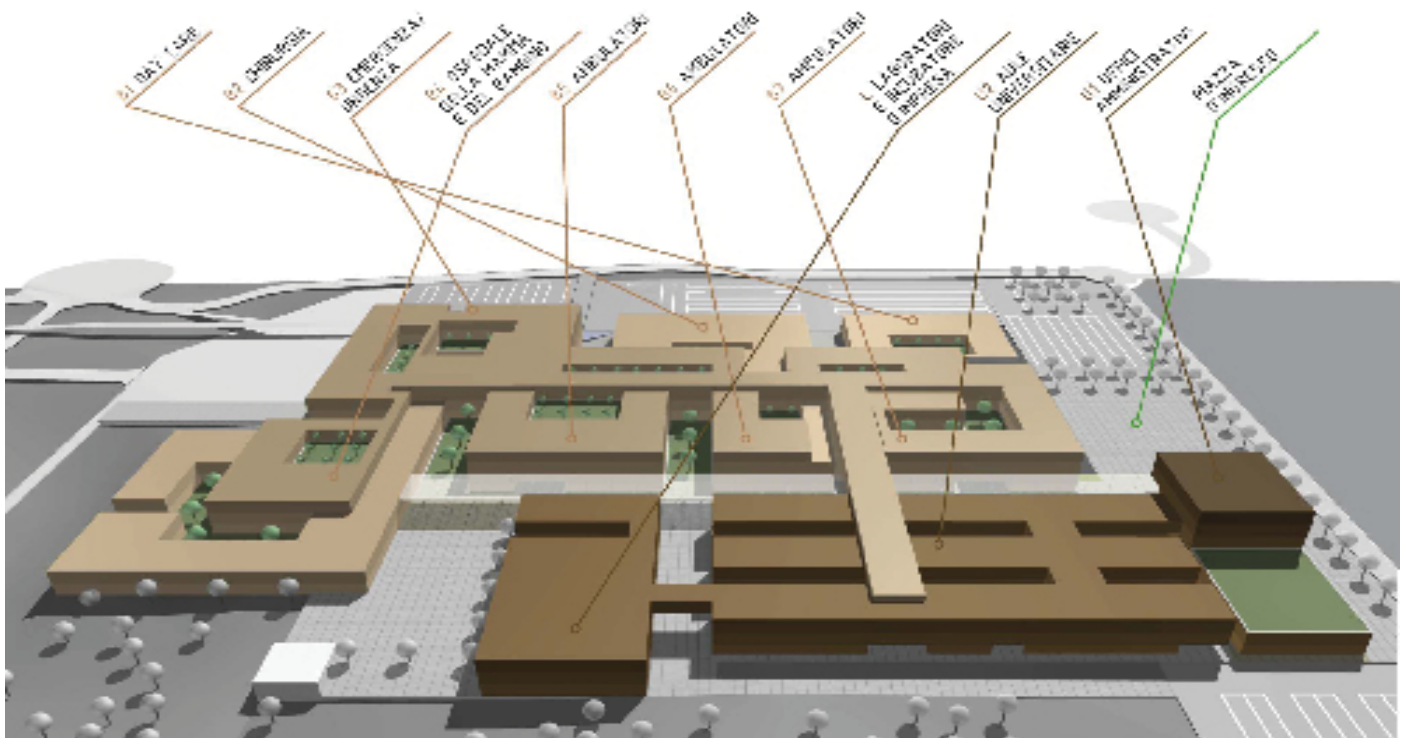
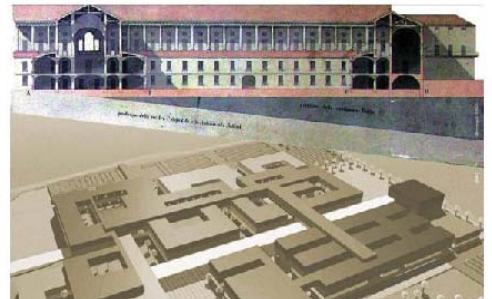
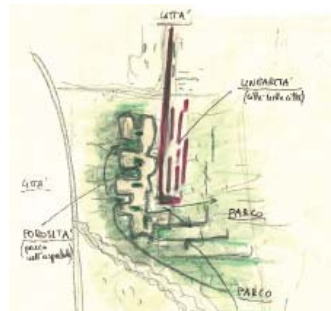
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**Client:** "Ospedale Maggiore della Carità"  
University Hospital, Novara  
**Activity:** Brief design and masterplan  
**Number of beds:** 650  
**Gross Area:** 140.000 m<sup>2</sup>  
**Cost of works:** € 210.000.000,00  
**Data:** 2007  
**Status:** completed

We produced the Guidelines and the Master Plan for building a new hospital complex, seen as a multi-purpose and integrated complex capable of providing basic hospital care and acting as the reference specialised hospital of excellence for a network of hospitals in the eastern part of the Piedmont region. It will be a teaching hospital for the faculty of medicine of the "Amedeo Avogadro" University and provide a link between the clinical function as a hub, advanced research and the start-up of new production experiences. The area chosen is situated in the "Parco della Battaglia" on the southern outskirts of Novara, and "porosity and linearity" were the concepts underlying

the approach of the project. Cloisters, courtyards, terraces and privileged and accessible aspects, excavation and perforation of the building solve the theme of the park entering the Hospital and the greenery becomes an active element of comfort. The complex is concentrated in two main bodies, the volumes of which are broken down into single smaller buildings corresponding to the various different uses in the framework of the vocation as a hospital and university. The buildings are integrated by means of functional links along two longitudinal paths, one for outside flows along the same axis as the urban road system, of which it is an extension acting as an entrance path and border, and the other internal path for healthcare uses. The new hospital is organised according to consistent functional areas - Medicine, Surgery, Mother and Child Care - and to progressive care - Accident and Emergency, Intensive Care, Post-Intensive Care and Day Hospital. Each of these areas has an interdisciplinary teaching module and they are all connected to the adjacent Teaching and Research Centres.

# New University Hospital, Novara



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**Client:** Pessina Costruzioni S.p.A.  
**Activity:** Detailed design for tender  
**Number of beds:** 150  
**Gross Area:** 17.317 m<sup>2</sup>  
**Project Cost:** € 28.405.129,00  
**Date:** 2000  
**Status:** Completed

In view of the morphological characteristics of the terrain, consisting of a hill sloping gently downwards towards the north-east and a peak to the south, the new hospital complex was integrated into the landscape after a special study of the levels. The hospital, which has 150 beds, is structured in three separate parts.

#### **The service area**

This area is partly underground and is designed as a large multi-purpose floor. It includes the Emergency Department, Radiology, the Operating Theatres, the Day Surgery Ward and the Sterilisation Centre, plus the accounting and technological services.

The two-storey high entrance hall is correctly situated here, with an excellent functional relationship between the various departments and proper separation of each.

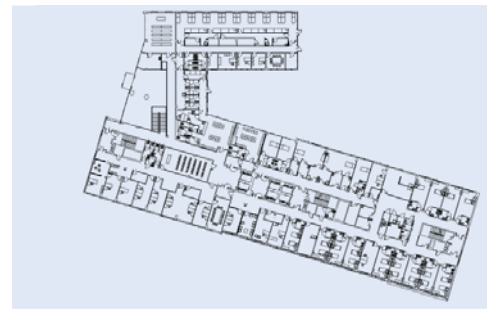
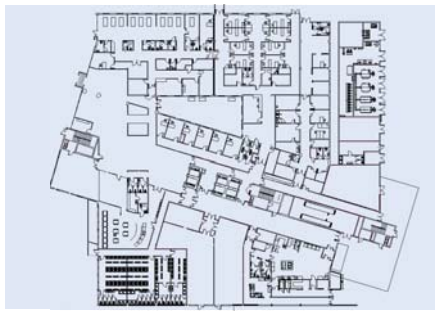
#### **In-patients**

A building adjoining the above area contains the wards, the administrative offices and the doctors' surgeries, with access from the upper level. They are organised at the centre of the complex as a whole in the form of a study centre enabling them to share several services such as the library, the meeting room and so on, so as to facilitate synergism.

#### **Outside service building**

This building, too, is "back-to-back" with the multi-purpose area. It contains mainly the functions at the disposal of outside users such as out-patient clinics, the dialysis centre, the booking centre and the hospital laboratories.

## The new Broni and Stradella Hospital in Pavia



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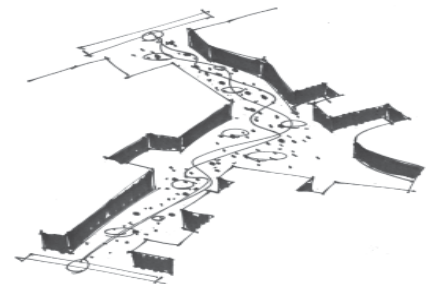
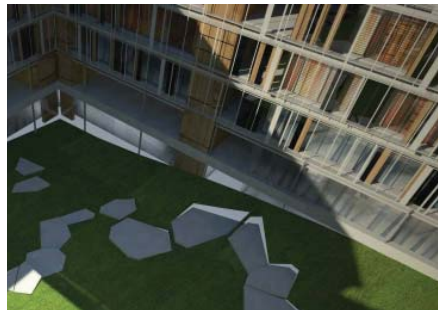
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**Client:** "Ospedale Maggiore Policlinico" Foundation  
**Activity:** Invited International competition  
**Number of beds:** 375  
**Gross Area:** 115.000 m<sup>2</sup>  
**Cost of works:** € 136.905.000,00  
**Date:** 2007-2008

The project for the new hospital relates to the fabric of the old town with the aim of creating a new urban area without losing the meaning of a public place for meeting and without jeopardising the feeling of belonging of the inhabitants. It was thus necessary to interpret the relationship of a modern hospital with the old town. A large hole was dug within the surrounding fabric, concentrating the new volumes around the perimeter of this area. This gave rise to an empty and continuous garden area at the centre, that is a connecting area and, at the same time, an area of suspension of the density of the context.

The shapes of the hospital building are consistent with the external reference points (context, monumental buildings, entrances) and the outside ones (the gardens, flows, directions). The new functions are situated mainly in two new volumes that on the lower floors house the activities requiring a concentration of technology and care (operating theatres, intensive care and radiology in the mother-and-childcare centre) or relations with the public (out-patient clinics in the medical centre) while the upper floors house the wards. The entrances, integrated with reception and shopping areas, all look out onto the gardens. The buildings are connected by a new underground logistics path that serves the whole hospital. The layout is completed by the new technology centre and the system of road and pedestrian accesses. The new buildings are designed in a plain and non-rhetoric style, but the light and dynamic way in which they are included in the area creates a tension that gives them a strong architectural identity.

## New Polyclinic in Milan



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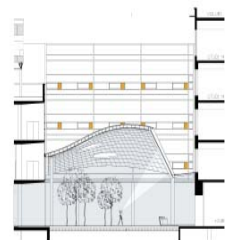
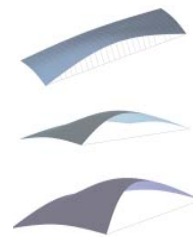
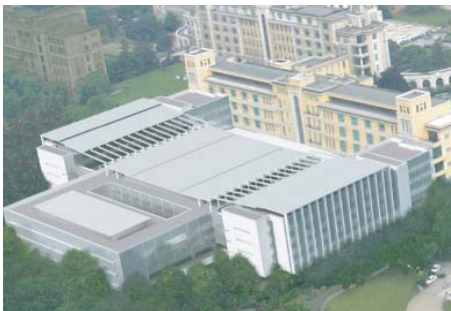
**Client:** Niguarda Cà Granda Hospital  
**Activity:** Invited competition  
**Surface Area:** 233.863 m<sup>2</sup>  
**Cost of work:** € 233.620.122,00  
**Data:** 2004  
**Status:** completed

The improvements proposed for the new hospital in Niguarda, with the aim of achieving functional and management effectiveness and energy saving without sacrificing aesthetic and perceived quality, introduced changes to the design of the façades, the arcades and the covering of the service systems on the roof.

The vertical partitions - corresponding to the wards - of the east and west façades of the north and south buildings were transformed into columns set away from the actual façade so as to create a more effective shading system. The continuous façade made of glazing and insulated aluminium panels reaches the required sound and heat-proofing levels as well as good results in terms of psychic perception on the part of users,

who can see outside but feel protected at the same time. The arcade covered with a semi-transparent curved roof contains the public areas, the accesses to the out-patient services and to the admission desk. A large sail completes the roof. It contains the technological systems and provides consistency of the whole complex. Containment of energy consumption. Feasibility studies were carried out to investigate the service system solutions with a view to improving the building cladding. Several design systems were considered and simulations were carried out in order to quantify the related yearly energy costs consisting of the total of the bills for primary energy (electricity and fuel) plus the costs for managing a co-generation plant (oil, filters, etc.). Active thermodynamic recovery systems were installed with air/air heat pumps on the newly supplied Air-Treatment Units. Heat pumps using aquifer water for producing heat in winter and for cooling in summer were installed in the south and north buildings. The choice of the co-generation plant with a gas-fired engine and an absorption type refrigeration unit was confirmed and units for recovering heat from the boiler fumes were installed.

## Re-organisation of Niguarda Cà Granda Hospital, Milan



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**Client:** "Gaetano Pini" Orthopaedic Institute, Milan

**Activity:** preliminary, detailed and technical design, supervision of works

**Number of beds:** 470

**Gross area:** 8.650 m<sup>2</sup>

**Cost of works:** € 2.519.320,65

**Data:** 1998

**Status:** completed

The project for the co-generation plant of the "Gaetano Pini" hospital was planned in order to achieve rational use of thermal energy, complying with the following requisites:

- Safety
- Reliability
- Environmental comfort
- Energy saving
- Ease of maintenance
- Elimination of polluting factors
- Containment of management costs

The co-generation plant illustrated in this report serves the whole hospital, specifically Building 1, Building 2, the

Principe building, the cloister building and the services building.

In order to achieve energy savings, heat was recovered from the output air from the air-conditioning systems, and the positions of the machinery were chosen so as to shorten the length of the piping. Co-generation systems were used to produce electricity and heat at the same time. The central position of the power plant enabled the shortest possible paths to be designed for the cooled water, steam and hot water piping, lowering the costs for carrying these fluids.

The plant is completely below ground level and the ventilation openings are sound-proofed so as to keep noise within the regulation limits. The plant produces hot water for heating, steam for humidification, cold fluid for air-conditioning and steam for the kitchen and for sterilising.

The plant is sized to cater for the whole re-furbished hospital complex.

"Gaetano Pini" Orthopaedic  
Institute, Milan



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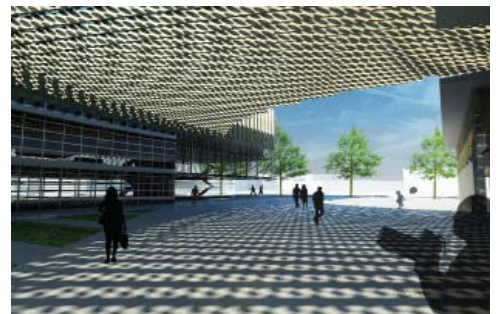


**Client:** Municipality of Piacenza  
**Activity:** preliminary design  
**Gross area:** 19.620 m<sup>2</sup>  
**Construction cost:** 18.700.000,00 €  
**Date:** 2010  
**Status:** completed

The proposal is born from a sensitive reading of the physical characteristics of the context with which the area and the new building must report, agreement as awareness of the responsibility that is assumed who intervenes modifying the inhabited landscape, not only intervening on the physical and functional characteristics, but also on those that concern the sensory sphere like brightness, color, dynamism, proximity and distance. The site is found in the belt of the first external oriental south outskirts to the historical center, altogether characterized by a housebuilding unhomogeneous and not so characteristic. The urban fabric is not particularly dense

and present significant alternations among areas inedificate and green areas, among industrial and residential areas that underline the discontinuity. Such characters of the landscape are emphasized by more recent phenomena what the dismissione of productive complexes and the realization of new road. The character of "open space" rather than of density and stratification is, to a careful and sensitive reading, perceptively prevailing and evident. On the course axle East-West of Conciliation's Street is determined an evident transition among the road's alignment North-South and the oldest fabric and the alignment South East - NorthWest, of the green areas, the park, the Avenue and the historical mark. The area is situated really in the junction between those systems and his position, therefore "vocation", is rendered explicit in its same form. The project is founded on the idea to make explicit the different strengths or tensions in a specific point, to give form to the passage through open space and city without interrupting the flow that aspires to produce a public building and a

New Town Hall, Piacenza

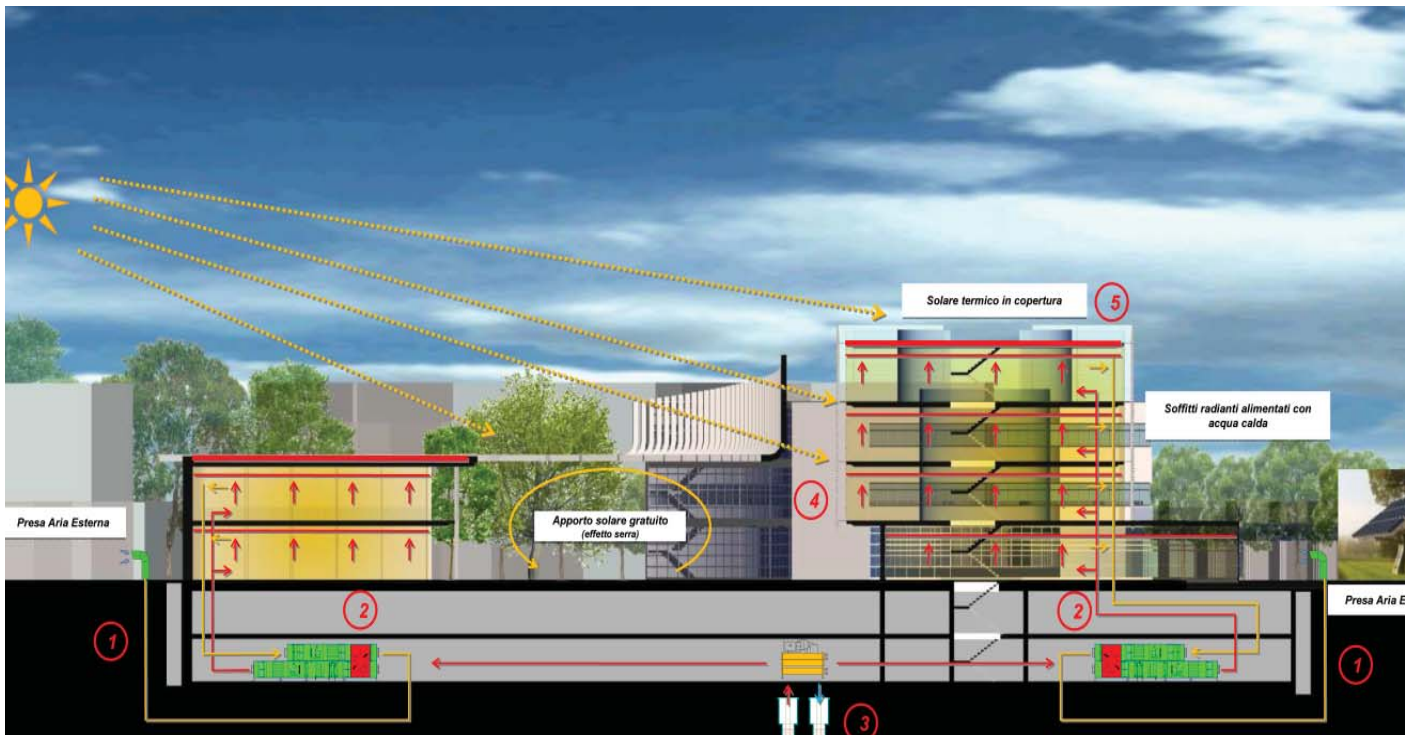
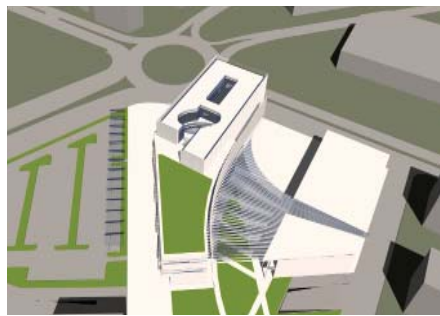
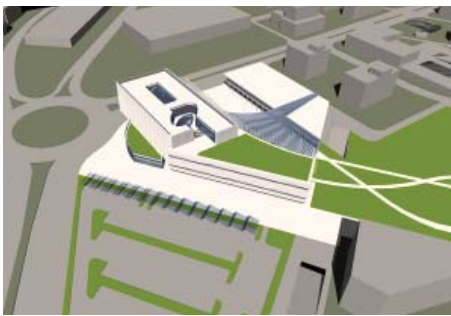


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plaza "lived", able to be a new reference for the community. The new complex is constituted by two buildings and by a plaza. The double reference is explicated in the deformation that takes the principal build, including inside the Town Hall. The natural element of the park is also reminded by the vertical wooden elements of solar protection of the façade that can be read as a spin thin of union and passage from one to the other system. Those elements unite to the coverage becoming the characteristic element of the plaza. The proposal is founded on a massive use of innovative technologies for construction materials and fittings: 1.reduction of loss

of heat of the envelope through the use of natural insulation coating and solar screenings; 2.self-production of electric energy up to the 50% of peak; 3.self-production of heating energy (solar panels) for the sanitary hot water (100%) and for the air-conditioning system; 4.self-production of electric energy from aeolian source exploiting the residual pressure of the air expelled from the UTA; 5.free contributions of heating energy and refrigeration one through probes geothermic; 6.use of renewable sources in pump of heat for production of hot water; 7.use of active thermodynamic recovery in pump of heat for the climatization; 8.adoption of aeraulic canalizations with insulation; 9.system of circulation (pumps) of the heat-carrying fluid to variable-displacement in relation with the real request; 10.system of total control and regulation of the plant and of consumptions. The complex of solutions guarantees the classification "A" and, besides, permits an expense energetic annual equal to 83 Temp with 73,1% saving in comparison to how much is demand in the project preliminary for class "A."



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**Client:** "Le Scotte" Polyclinic, Siena  
**Scope:** High Care Units refurbishment  
**Activity:** Preliminary, detailed, technical design, supervision of works, accounting, safety management  
**Number of beds:** 1.000  
**Gross area:** 125.000 m<sup>2</sup>  
**Involved in activity:** 5.538 m<sup>2</sup>  
**Date:** from 1998 to 2009

Within a "Re-organisation and Development Plan" – called for in the Master Plan drafted by us in 2001 – for the progressive modernisation of the "Le Scotte" Polyclinic (a National standard University hospital) and for bringing it into line with current regulations, the functional, structural re-organisation and technical re-qualification of several crucial operational units was planned and managed. In detail, over the past 10 years the following works had been carried on by PAT:

**General Surgery operating theatre:** refurbishment and creation of 4 new operating suites with all related services and support facilities, including endoscopy suite, an out-patients' clinic for day surgery and offices (1,294 m<sup>2</sup> - € 982,536);

**Eye Surgery operating theatre:** refurbishment and creation of 2 new operating suites with all the related services and support facilities, including an out-patient's clinic with an operating theater for laser treatment of cataracts (674 m<sup>2</sup> - € 840,218);

**Resuscitation and Intensive Care Unit:** Re-organisation of two resuscitation and intensive care units for 13 beds (3 isolated + 2 for burned patients), offices, supporting facilities and library, the project includes a new tower with a dedicated lift for beds for the direct link to the Emergency and Operating theatre (1,060 m<sup>2</sup> - € 1,333,260);

**Chest and cardiovascular surgery unit:** 7 intensive-care beds (2 isolated), 2 day-hospital beds and 2 observation beds (710 m<sup>2</sup> - € 604,917);

**Private practice unit:** Creation of a new out-patient area with 20 doctor's studios and visit rooms and a residential unit with 20 beds (1,508 m<sup>2</sup> - € 1,520,225);

**New Accident and Emergency Department:** the feasibility study of a new ED followed the previous projects: the strategic brief was for a new building with floor space of 23,000m<sup>2</sup> worth € 18,200.

## Re-qualification of Polyclinic Le Scotte, Siena



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**Client:** Nerviano Town Council  
**Activity:** Preliminary, detailed and technical design, supervision of work  
**Gross Area:** 4.689 m<sup>2</sup>  
**Cost of works:** € 3.632.757,00  
**Data :** dal 1999 al 2003  
**Status:** completed

The former Olivetan Monastery with the former church of Santa Maria Incoronata were originally built around the year 1470 with the artistic features typical of the architecture inspired by the Sforza family. The complex consists of a building with two storeys above ground built around a first cloister, with the former church adjoining it. We were entrusted with the preliminary, final and working design, and with site engineering services for the technological systems. Without prejudice for the quality of the artefact, the solutions chosen were the least invasive, preferring peripheral distribution, use of the flues for the incoming air con-

for the incoming air conduits, creation of a main underground distribution channel in the underfloor of the cloister, use of BUS technology – easily camouflaged thanks to the limited dimensions – for adjustment, control and alarm functions, use of non-invasive fixing systems for preserving the existing plaster.

The problems connected with eliminating the moisture rising from the ground were solved by blowing warm air into the air gap under the floor slab of the ground floor. A barrier well of the water from the first aquifer was used as a thermal resource for a heat pump (200kW) that meets the entire thermal requirements for heat of the new council offices in summer and winter.

The air-conditioning system is a mixed primary-air system with heat-pump field units with automatic inversion, with the addition of floor-mounted panels for the ground floor only. The lighting system was designed attempting to respect nature and the architectural and structural characteristics of the building, highlighting its contents.

## New premises for the Town Council of Nerviano, Milano



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**Client:** Gallarate Town Council, Varese  
**Activity:** Final project, working project.  
**Surface Area:** 11.500 m<sup>2</sup>  
**Cost of works:** € 17.500.000,00  
**Data:** 2005  
**Status:** Completed

The new premises of the State Professional School for Commercial, Tourism, Graphic and Hotel Services will accommodate 1200 students. It consists of a pre-existing part that belonged to the old industrial complex and another newly built part. The two are connected by the volume of the entrance hall, at the centre, from which every part of the school can be reached. The new building contains the two-storey high gym, the didactic restaurant and bar with its kitchens and utilities, offices and other teaching areas. Rehabilitation of the pre-existing building was identified as the main "teaching" body of the school, with

an assembly hall, an area for ceremonies and theatrical events and simulations of hotel reception facilities, changing rooms, areas for socialising and a teaching hall for the whole school.

In line with the general goals, PAT developed the mechanical and electrical technological systems, ensuring flexibility and functional reliability understood to mean safety and continuity of operation, simplicity and inexpensiveness of maintenance and upkeep and energy saving, thanks to the use of renewable energy sources in the form of photovoltaic solar panels, thermal energy and a carefully designed lighting and air-conditioning system.

## New secondary school "G.Falcone" school, Gallarate



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**Client:** Municipality of Sanremo, IM

**Activity:** integrated design and supervision of works

**Surface Area:** 10.642 m<sup>2</sup>

**Cost of works:** total € 11.669.475,00 (for technology € 5.146.573,00; for civil and structural parts € 6.542.902,00).

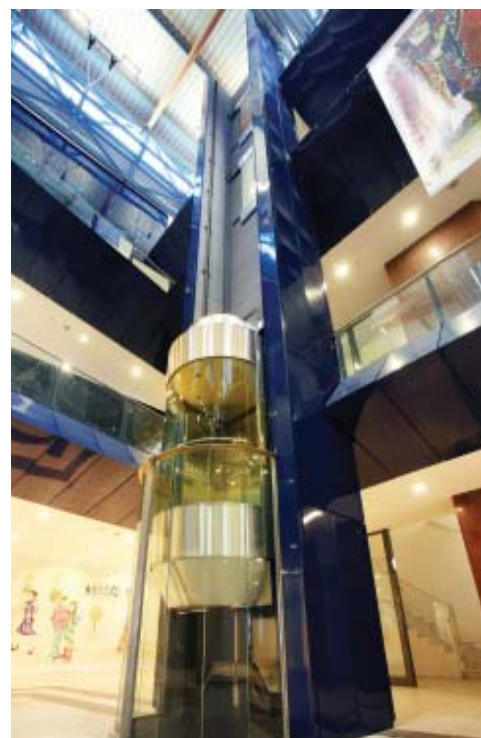
**Date:** 2001-2006

**Status:** completed

The object of the activity is the recovery of the former Market of Flowers, located in to the center of the city in Corso Garibaldi, as a polyfunctional complex denominated "Palaexpo" to use in flexible way like a center of congresses (600 places) and exposures, like a concert hall (334 places) and music rooms, with a restaurant, commercial activities and offices for the public, 280 spaces of parking lot and services of support and technological. How members of the ATP of integrated planning and supervision of works, we have been commissioned to draw up the three levels of design and the supervision of works of all the technological mechanics, electric and

of transport plants with total restructuring of the insides, of the technologies and renovation of the façades.

The intervention has been characterized for the complexity at the same time vagueness of the theme set by the client; for the consequent demand of great flexibility of plants which has to satisfy in the time the most varied demands of use; for the great inside plaza that occupies the building in all of its height; for the innovative choice to produce the heating energy with heat pump with geothermal sources in total absence of traditional heat generators; for the panoramic elevator and the mobile staircases for the transport of great masses of visitors; for the great safety application fireproof and of supply of electric energy; for the great openable roofs to the last floor to coverage the great inside plaza, for demonstrations of the after festival of "Italian Song" and other summer activities; in a design where has been essential the integration between the big structures, the air ducts and the illuminating elements.



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**Client:** Busto Arsizio Hospital

**Activity:** Preliminary, detailed, technical design, tender documentation

**Gross Area:** 360 m<sup>2</sup>

**Cost of works:** € 446.422,00

**Data:** 2007

**Status:** Working design completed

axis with one another. It will have a skylight consisting of photovoltaic panels made of low-emission double glazing for the production of electricity. The skylight lights the dining area at the centre of the building, looking directly onto a green area.

The new facility, one storey high and able to accommodate 35 children, is planned to be built in a free area within the existing hospital complex, with a separate entrance from the street. The shape of the building is heavily influenced by the many conditioning factors existing in the area, such as minimum distances and the many sub-services. It is treated as a compact and consistent volume in terms of the choice of materials so that it can be interpreted as a small, well-defined object, easily recognised by the children. The roof of the new nursery consists of

New nursery, Saronno



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