Health Care Infrastructure
We are a multi-sector engineering group that renders planning, design, construction and operational services in the transportation, building, automotive, energy and environment industries. We have a portfolio of projects developed in more than 20 countries during the last 27 years.

As a group that is committed to progress, we are interested in contributing to the improvement of the countries where we operate. Our philosophy is based on the fact that design and construction are inseparable, and that the application of a deep knowledge of each of them is fundamental to the success of any project.
In the world
GPO offers engineering and architecture services during all the developing stages of a project: planning, design, construction and operation.

Both the national and international growth of the company, together with the change in our clients’ needs, which widens every day, has led us to broaden the reach of our services and meet new challenges. As a result, we have classified our activity areas into five markets: Transportation, Building, Automotive, Energy and Water.

Each sector has its own strategies and objectives, although all of them are interrelated to offer a comprehensive service which allows working in all disciplines and geographical areas and provides exceptional solutions to complex problems. We optimize investments, while making our public and private clients’ investment processes as efficient as possible.
### Services

#### Project Stages

**Planning**
- Technical Audits
- Due Diligence
- Feasibility Studies
- Risk Management
- Strategic Planning

**Design**
- Programme Management
- Consultant Selection
- Cost Management
- Planning Management

**Construction**
- Construction Management (GIC)
- Project Monitoring
- Quality Contrast
- Risk Management
- Commissioning
- Management Control
- Availability Concession Control
- Delivery and Guarantee Period

**Operation**
- Facilities Management
- Operation Stage

#### Services for each Stage of the Project

**Planning Stage**
- Feasibility Studies
- Territorial Plans
- Functional Studies
- Environmental Impact Assessment
- Operational Studies
- Conceptual Designs
- Strategic Planning

**Design Stage**
- Preliminary Design
- Detailed Design
- Audits

**Construction Stage**
- Technical Assistance
- As-built Projects
- Construction Management
- Works Supervision
- Health and Safety Coordination
- Environmental Management

**Operation Stage**
- Inspection & Control
- Preservation
- Technical Reports

**Services for each Stage of the Project**

- Transportation System Planning
- Urban Planning
- Needs Assessment and Traffic Studies
- Feasibility and Profitability
- Technical, Environmental and Energy Audits
- Geological - Geotechnical - Environmental Studies
- Land Acquisition & Resettlement

- Procurement & Tendering
- ToR Drafting
- License Management

- Project Monitoring
- Private Consulting
- Institutional Consulting
- Analysis of Regulations
- Concession System
- Concession Contests

- Audits
- Infrastructure Management
- Maintenance
GPO has carried out important projects in the health care market, both new construction projects and the renovation of existing facilities. Our broad range of experience and the satisfaction of our clients have made health care architecture to be one of the company's hallmarks.

Our team of experts consists of qualified technicians in the health care industry, and we often utilize medical advisors throughout an entire project. Thanks to our multidisciplinary team, we are able to provide efficient solutions to complex needs. The precise understanding of needs, the execution of efficient designs and the effective construction supervision have allowed us to build successful relationships with our clients.
Anoia Health Care Consortium. Igualada Hospital.
Barcelona, Spain.

– 1999: Design of economic scenarios.
– 2002: Resources analysis.

Capacity: 244 beds

Pius Hospital
Valls, Tarragona, Spain.

– 2000: Revision and coordination of the master plans for renovation projects.

Capacity: 440 beds

Vall d’Hebron University Hospital.
Barcelona, Spain.

– 2000: Revision and coordination of the master plans for renovation projects.

Capacity: 1,400 beds

Trias i Pujol University Hospital.
Badalona, Barcelona, Spain.

– 2003: Project for the reorganization of outpatient departments.
– 2004: Strategic plan.
– 2006: Functional plan for outpatient, medical services and administrative departments of the Catalan Oncology Institute.

Capacity: 640 beds

Trias i Pujol University Hospital.
Valls, Tarragona, Spain.

– 2007: Master plan and functional plan for surgery, obstetrics, outpatient and long stay departments.
– 2010: New management model for the outpatient department and functional plan of the hospital.

Capacity: 140 beds
The Ministry of Health of the Republic of Turkey started a process of modernization of its basic hospital network with the assistance of private investment. First of all, a comprehensive study of the sphere of influence of the future hospital was undertaken, assessing supply and demand in the area. As a result, a Functional Study and an assessment of the needs were carried out, constituting the base for the later development of the Preliminary Design. The Preliminary Design defined in detail the characteristics of the general hospital of 450 beds, as well as the hospital and non-hospital equipment.

The hospital, with a total surface of 100,000 m² distributed into 6 floors, was designed to provide the usual services for this kind of facilities (hospitalization area, operating rooms, intensive care unit, external consultations, administration office, toilets, etc). The project especially focused on the general lay-out of the hospital, developed according to the needs established by the Functional Study, on the design of the main characteristics of structures, closures, materials, finishes, installations, etc., as well as on the measurement of the different lots and on the assessment of costs.

At the same time, a study was carried out in order to determinate the most suitable method to implement a PPP Plan (Public-Private) in Manisha Hospital within the framework of the current Turkish legislation. The services also included the writing of the Terms of Reference for project procurement, maintenance and utilization of the hospital, as well as the assessment of the profitability of the operation for both the Public Administration and the Concessionaire.

Service Functional Study | Preliminary Design
Client Republic of Turkey
Vall d’Hebron University Hospital.
Barcelona, Spain.

– 2005: Facilities adaptation of the cardiology critical care department and specific surgery unit.
Capacity: 1,400 beds

Hospital Clinic.
Barcelona, Spain.

– 2008: Outpatient, medical services and administrative departments of the Catalan Oncology Institute.
Capacity: 760 beds

Trias i Pujol University Hospital.
Badalona, Barcelona, Spain.

– 2006: Renovation of the supply installations and the electrical distribution.
– 2008: Outpatient, medical services and administrative units of the Catalan Oncology Institute.
Capacity: 640 beds

Terrassa Health Care Consortium. Terrassa Hospital.
Terrassa, Barcelona, Spain.

– 2007: Renovation of the intensive care unit, operating rooms and endoscopy unit.
– 2008: Renovation of the outpatient consulting unit.
Capacity: 400 beds

Design

• Preliminary and detailed designs.
  – Hospital logistics.
  – Architecture.
  – Structural design.
  – City Planning.
  – Design of general facilities.
  – Design of medical and investigation facilities.
• Project audits.
• Bidding projects.
• Development of the terms of reference.
• License management.

Healthcare Projects

• Preliminary and detailed designs.
  – Hospital logistics.
  – Architecture.
  – Structural design.
  – City Planning.
  – Design of general facilities.
  – Design of medical and investigation facilities.
• Project audits.
• Bidding projects.
• Development of the terms of reference.
• License management.
- Detailed Design and Construction Supervision for the park facilities.

Surface 10,500 m²

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**Pere Virgili Health Complex**

Girona, Spain.

- Construction supervision for the renovation of the health complex.
- Public health buildings.

Surface 36,684 m²

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**El Mirador Retirement Home**

Sant Joan Despí, Barcelona, Spain.

- Detailed Design and Construction Supervision for the facilities.
- 112 rooms for residents and 25 rooms for day home.

Surface 3,979 m²

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**Sophos Retirement Home**

Barcelona, Spain.

- Detailed Design and Construction Supervision for the facilities.
- 126 rooms for residents and 30 rooms for day home.

Surface 3,837 m²

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**Guttmann Institute**

Construction Supervision for the long-term care new building of the Guttmann Institute Foundation, which consists of:
- 136 beds for long-term care, outpatient consulting unit with six rooms, X rays and magnetic resonance scanning, two operating rooms, rehabilitation service with sports center and therapeutic pools.

**Guttmann Institute**

- Healthcare Projects -
- Main Healthcare Projects -

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**Guttmann Institute**

Badalona, Barcelona, Spain

Relevant Data

17,105 m² of surface
136 beds
Germans Trias i Pujol Hospital in Badalona is a health care center that belongs to the Catalan Health Institute. It works as a general hospital for the more than 200,000 inhabitants of Badalona and Sant Adrià de Besòs, as well as the tertiary referral center for the almost 800,000 people that live in the North of Barcelona and Maresme.

The public company GISA awarded GPO the Detailed Design and Construction Supervision for the renovation of the 3rd and 4th floors of the Germans Trias i Pujol hospital, so as to house the Catalan Oncology Institute (ICO). Two additional actions were undertaken at the same time: the construction of two towers attached to the East and West sides of the building and the adaptation of the emergency evacuation plan for the 3rd floor.

The project’s success was due to the constant contact maintained with the owner and the effective coordination with all the stakeholders: the hospital, ICO, CatSalut, GISA, the Firefighters and several management institutions. Moreover, the construction was executed without interrupting the hospital’s daily operation. The total surface covered by the project was of 2,535 m².

**Service**
- Functional Study
- Preliminary Design
- Detailed Design
- Construction Supervision

**Client**
Gestió d’infraestructures, S.A.

**Relevant Data**
- 2,535 m² of surface

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**Main Healthcare Projects**

Germans Trias i Pujol Hospital

*Outpatient, medical services and administrative units of the Catalan Oncology Institute*  
Badalona, Barcelona, Spain
The maternity wing at Vall d’Hebrón Hospital occupies a ten-storey octagonal tower for hospitalization and it is located next to a large indoor square. Underneath the tower there are two basement levels with a total area of approximately 16,000 m², housing several healthcare units and areas.

The general organizational layout defining passing areas, emergency evacuation plans and connections with the rest of the hospital became the starting point for the project. All areas were arranged around inner patios, which complimented the design and allowed natural sunlight to reach the lower stories.

Service: Detailed Design | Construction Supervision
Client: Institut Català de la Salut
The Catalan Foundation for Cerebral Paralysis (FCPC) is a non-profit organization that helps people affected by cerebral paralysis and other disabilities. The social and health residence, promoted by the foundation placed in 22@ district of Barcelona, aims at helping these patients with special needs.

GPO was awarded by the Catalan Foundation of Cerebral Paralysis with the detailed design, project management, construction supervision and health and safety coordination of a new center for people with cerebral paralysis in Barcelona. The building, whose preliminary design was done by Alfredo Arribas, has 3 floors with common areas such as a swimming pool, a day center, a dining room, etc., accessible to residents and visitors. It also has 4 floors dedicated to rooms and restrooms for residents.

The project had to include all measures to ensure full accessibility and functionality. Also, due to the peculiarities of the development company, a non-profit organization that depends on donations and grants for funding, it was critical to control the budget. The final resolution was choosing individual contracting, a way to adjust final costs as much as possible.

Client: Fundació Catalana per a la Paràlisi Cerebral
Service: Detailed Design | Construction Supervision | Project Management | Health and Safety Coordination
GPO provided the Preliminary Design, Detailed Design and Construction Supervision services for the renovation and expansion of the Animal House building of the Research Unit in Vall d’Hebron Hospital. The design converted an old warehouse and expanded the building to establish the premises for the new use. New spaces were established in the ground and first floor: warehouse and cleaning areas, cage area, handling area, washroom and locker area for the staff and the office for the supervisor.

The total built-up area is around 950 m², including new and renovated areas, totally adapted to the new use and regulations concerning utilities. The project affected the existing structure, so that it was necessary to create a new one for the attached volume. This new structure allows the addition of new floors if they are needed in the future.

**Service** Preliminary Design | Detailed Design | Construction Supervision

**Client** Gestió d’Infraestructures, S.A.
The aim of the project was the renovation of the health care network of Zambezia, in the center of Mozambique, one of the most populated provinces of the country. The challenge was carrying out the project with a very tight budget, using very simple materials and constructive solutions and with the participation of the local workforce, who had little experience and training.

The plan consisted of the renovation of the existing health units, extending them in order to raise the capacity and the quality of services, while transforming the former colonial health centers into rural, local hospitals or health centers, according to the Mozambique Ministry of Health’s new health care plan. The project also included supervision and consulting during the contracting of the building company.

The hospitals included in the contract were as follows:

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<tr>
<th>Hospital</th>
<th>Area</th>
<th>Beds</th>
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<tbody>
<tr>
<td>Milange Rural Hospital</td>
<td>3,578 m²</td>
<td>154 beds</td>
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<tr>
<td>Morrumbala Rural Hospital</td>
<td>3,863 m²</td>
<td>124 beds</td>
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<td>Maganja da Costa Hospital</td>
<td>1,782 m²</td>
<td>110 beds</td>
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<td>Mopeia District Hospital</td>
<td>1,470 m²</td>
<td>12 beds</td>
</tr>
<tr>
<td>Milange Health Center</td>
<td>661 m²</td>
<td></td>
</tr>
<tr>
<td>Chinde Health Center, with hospitalization and maternity services</td>
<td>1,549 m²</td>
<td>88 beds</td>
</tr>
<tr>
<td>Namacurra Health Center, with hospitalization and maternity services</td>
<td>2,145 m²</td>
<td>88 beds</td>
</tr>
<tr>
<td>Nicaoda Health Center, with hospitalization and maternity services</td>
<td>2,062 m²</td>
<td>84 beds</td>
</tr>
<tr>
<td>Pebane Health Center, with hospitalization and maternity services</td>
<td>1,582 m²</td>
<td>60 beds</td>
</tr>
</tbody>
</table>

Service: Preliminary Design | Detailed Design
Client: Ministério da saúde de Moçambique
The implementation of the centralized administration for the Emergency Health Services in Barcelona area required the renovation of an industrial building to house its new headquarters, placed in Hospitalet de Llobregat. GPO was awarded with the Preliminary Design, Detailed Design and Project Management services of the project, which consisted of a comprehensive renovation of the inside of the industrial units, the implementation of a new space allocation and the adaptation of technical facilities and utilities, complying with the new building regulations.

The renovated surface approximates 2,000 m², distributed throughout an open double-height space. This space gathers the nerve center of the institution, a call center that assembles the Emergency Health Services, where more than 400 primary health care professionals, distributed among three shifts. The project also included the construction of locals and complementary rooms (offices, meeting rooms, locker rooms, etc.), a dining room with outside catering service and a logistics area for supporting ambulance transportation.

Service Preliminary Design | Detailed Design | Project Management
Client Sistema d’Emergències Mèdiques, S.A.

Relevant Data
2,000 m² of surface
Terrassa Health Care Consortium, Terrassa Hospital
Terrassa, Barcelona, Spain.

- 2006: Substitution of the elevators in the patient care building of 14 floors.
- 2007: Renovation of the intensive medical care unit, operating rooms and endoscopy unit.
- 2008: Renovation of the outpatient consulting unit.
- 2009: New radiotherapy, general warehouse and nuclear medicine units.

Capacity: 400 beds

Mollet Health Care Consortium, Mollet Hospital
Mollet, Barcelona, Spain.


Capacity: 160 beds

Hospital Clinic
Barcelona, Spain.

- 2009: Facilities renovation of the hemodynamics, cardiology and urology diagnosis units.
- 2009: Renovation of isolation bays and the hematopoietic transplantation unit.

Capacity: 760 beds

Construction

- Project Management.
- Construction Supervision.
  -- Civil Works.
  -- Building.
  -- Facilities.
  -- Medical Equipment.
- Health and Safety.
  -- Health and Safety Coordination.
  -- Nosocomial Risk Management.
- Environmental Management.
- As-built Projects.
- Regulation Studies.
- Awarding Systems.
- Concession Biddings.
- Start Up Processes.
Vall d’Hebrón Hospital

Construction Supervision and Health and Safety coordination for the Extension of Radiotherapy Service in the General Area at Vall d’Hebron Hospital

Barcelona, Spain

Vall D’Hebron is the first health care complex operating in Catalonia and one of the largest hospital complexes in Spain. It comprises four large buildings: the General Area, the Maternity Wing, the Orthopedics & Trauma Area and the Outpatient Surgery Unit (Pere Virgily Health Park). Those four areas cover all medical and surgical specialties and contain a total of 1,400 beds. Vall d’Hebron hospital also houses several university lecture centers, public companies in the health sector, research centers, laboratories, and other related facilities.

The project consisted of the extension and renovation of the first phase of radiotherapy service, located in an attached semi-underground storey, and the laboratories located on the upper level.

Service Construction Supervision
Client Gestió d’infraestructures, S.A.

Relevant Data
1,400 beds
The new acute care hospital in Denia is a 4 storey building with two underground levels. The underground levels include a parking garage and facility rooms: pharmacy, laboratory, pathology and storage rooms, kitchen and locker rooms. Hospital-use rooms and other facilities are located on upper levels. With approximately 57,000 m², (41,000 of them above-ground and 16,000 under-ground), the new Hospital of Denia has a capacity for 247 rooms (280 beds). It has 84 beds for special care (42 beds in emergency boxes, and the rest are for day hospital, oncology and hem dialysis).

MARINA SALUD awarded GPO the Project Management services of this new Hospital in Denia. MARINA SALUD was the concessionaire of this facility and it had been awarded with the construction, maintenance, and operation of the hospital by the Valencian Government. GPO was in charge of the project during the entire process, controlling design and construction phases.

**Service** Project Management
**Client** Marina Salud

### Relevant Data
- **Surface:** 57,000 m²
- **Beds:** 280
Igualada Hospital

Construction of a new hospital in Igualada
Barcelona, Spain

The Hospital of Igualada is a new facility with a total construction cost of 60 million €, located right next to N-II road in Igualada. The total surface is 30,000 m². The hospital is equipped with the latest technology and has a capacity for 244 beds, 40 of which are social health care beds. It is equipped with 6 surgery rooms, 3 delivery rooms, 38 clinic rooms, and 47 emergency rooms.

The Health Consortium of Anoia awarded GPO the Project Management, Construction Supervision and Health and Safety Coordination of this new Hospital near Barcelona. The design included a building with several modules, some of them with 2 floors and others with 5 floors. The building also has an underground level. The project included the development of the road accesses and the outdoor parking lots for the staff, as well as the outpatient areas, obstetrics, surgery rooms, and intensive care units.

GPO was in charge of the negotiations with the contractor throughout the project. It was also necessary to introduce modifications in the functional program during throughout the project, in order to adapt the building to the new medical equipment acquired by the property, while the project was under construction (radiology, operating rooms, ICU, laboratories, pharmacy, etc.).

Service
Construction Supervision | Project Management | Health and Safety Coordination

Client
Consorci Sanitari de l’Anoia

Relevant Data
30,000 m² of surface
244 beds
The building of the Biomedical Research Park of Barcelona has more than 55,000 m² of built-up area, and it is located on a plot of 9,000 m² at Barcelona sea front. The building has an elliptical shape of 117 x 74 meters, designed to achieve several purposes. The building, which included a sophisticated concrete structure, had three underground levels in a plot adjacent to the sea and, therefore, with great impact to the water table and the ten levels above ground. The design was completed under the direction of two prestigious architects: Manel Brullet and Albert de Pineda. The main objective was to achieve a design adapted to the specific purposes of the users of Biomedical Research Park of Barcelona.

The consortium in charge awarded GPO with the contract for the Construction Supervision of this biomedicine applied research center. GPO’s mission included the design management, the tendering of the successive phases of the project and the construction management. The consortium, named “Community Property,” was made up of various public sector bodies: the City Council, the Consortium of the Tax Free Area of Barcelona, Pompeu Fabra University, among others.

One of the main challenges was integrating the necessities of all the developers of the design, dividing the work into successive phases which allowed rushing parts according to the available budget. Additionally, the requirements of future users had to be incorporated into the design, adapting them to the particular needs of each research team. This project became a unique public initiative with an emblematic design.

Service Project Management
Client Parc Recerca Biomèdica Barcelona

Relevant Data

- 55,000 m² of built-up area (9,000 m² of plot)
- 13 floors (3 underground levels and 10 above ground)
Vall d’Hebrón Hospital

GPO was awarded by GISA with the construction supervision services and overall expansion coordination of the Surgical Center of the Vall d’Hebrón Hospital in Barcelona, one of the biggest public care centers of the city. The Project consisted of the addition of three floors on top of one of the hospital’s existing buildings, which will house 19 operation rooms, 56 intensive care units, 12 post-surgery rehabilitation units, the improvement of internal communication, and the adaption of the hospital’s facilities to the existing technological advances.

GPO’s mission included Construction Supervision and Project Management services: coordination of all of the consultants in the planning stages, time and cost control, management of changes, testing and start ups, as well as coordination with hospital managers. One of the main challenges was the construction of 3 floors on top of a building that was in use and was placed in a complicated surrounding as far as construction logistics is concerned, while maintaining the safety of the work and the hospital’s activities simultaneously. This required great technical preparation and solutions that avoided the transfer of load to the existing building, apart from the constant coordination with the building’s managers to plan and agree on each task of the work that could interfere with the hospital’s activities. It also required the mastery of technical knowledge, specialized for hospital settings.

Relevant Data
- 19 operating rooms
- 56 intensive care units
- 12 post-surgery rehabilitation units

Service
Construction Supervision | Project Management

Client
Gestió d’Infraestructures, S.A.

New Surgical Block of Vall d’Hebrón Hospital in Barcelona
Barcelona, Spain
GPO was awarded by Serveis Funeraris Integrals with the Project Management services for Ronda de Dalt Morgue in Barcelona. The building, designed by the architecture studio Ribas & Ribas, has 17,500 m² and it is divided into five floors distributed among: two underground floors designed for the garage (8,000 m² with 250 parking spaces); the ground floor for offices, locker rooms, florist, reception, bar-restaurant and ceremony hall; and the two upper floors with ten funeral rooms each, parking spaces for the staff, warehouse, and a ceremony hall of 560 m². One of the challenges of the project was to let the building become part of the environment, since it is surrounded by a sloped garden of approximately 6,000 m², filled with all types of plants, ponds and ecological walls.

Service: Project Management
Client: Serveis Funeraris Integrals
In 2011 GPO was awarded with the Health and Safety Coordination service during the construction phase. The project included the construction of a new building of 19,000 m² intended for hospital uses with four floors above ground and six underground floors for parking purposes. The building was devoted exclusively to the radiotherapy unit.

The scope of the project also included some construction activities for the existing hospital, which had to remain operational. This fact implied that, apart from the risks derived from the construction activities, nosocomial risks had to be taken into account also, those coming from the coexistence with the typical activities of the hospital.

Service: Health and Safety Coordination
Client: Althaia
GiSA awarded GPO the Supervision of Labor Risk Prevention and the Coordination of Health and Safety activities. Among the supervised projects, more than 50 belonged to the health field.

As part from the contract activities, GPO’s team designed a specific methodology to analyze and manage health and safety measures during construction, in order to establish the development and monitoring of the Preventive Action Plan. Other provided services were the advising ahead of work requirements or inspections, accident rate studies during the construction phase and making reports follow the regulations in case of accident/incident. From these measures, improvement recommendations were developed for the constructive phases, preventive mechanisms and future building maintenance.

**Service** Supervision of Labour Risk Prevention and Health and Safety Coordination

**Client** Infraestructures.cat
Sustainability

Designing Sustainable Buildings

1. Energy Efficiency
2. Reduce Water Consumption
3. Minimize Environmental Impact
4. Reduce CO₂ emissions

Planning

- Landscape and Topographic Integration
- Reduction of Land Movements

Reduction of Water Consumption

- Water Recycling
- Rain Water Collection
- Sewerage Water Treatment

Solid Residues Management

- Waste Sorting

Renewable Energy

- Geothermal Energy
- Photovoltaic Energy

Energy Efficiency

- Natural Light Optimization
- Lighting Systems
- Air Conditioning Systems

Facility Management Services for a Privately Owned Office Building

Barcelona, Spain.

- Property portfolio for a Privately Owned Office Building.
- It includes 20 office and apartment buildings with the aim of optimizing maintenance management.
- New information system to manage the buildings by computer.

Period: 2011 - 2013

Cogeneration Plant for Argal

Lleida, Spain.

- Installation of a 2 MW cogeneration plant that includes all energy needs.
- Project, Management and Construction Supervision.
- Client: Grupo Alimentario ARGAL, S.A.

Period: 2012

Photovoltaic Facilities

Barcelona, Spain.

- Construction Supervision Services. 3.7 MW.
- Client: Aigües Ter-Llobregat (ATLL).

Period: 2006 - 2011
Albert Recolons  
Doctor and MBA  
Mr. Albert Recolons has over 20 years experience in health care management consulting. During these years, he has taken part in several projects related to functional, organizational and strategic planning of health care facilities both at the national and international levels.

Roberto Ripoll  
Architect  
With over 20 years experience in Utility Design, Mr. Ripoll has taken part in the functional and constructive design and construction supervision of several health care projects.

Jaume Cuxart  
Industrial Engineer  
Mr. Cuxart has a wide range of experience in the Project Management and Construction Supervision of complex building projects, both new construction and renovations. Due to his 20 years of experience, he has taken part in several health care projects, especially during recent years. He also has extensive experience providing Facility Management services for utilities.

Josep Serra  
Industrial Engineer  
During his professional life, started in 1980, Mr. Serra has taken part and managed several health care facility projects. He is teacher in the Master’s in Planning and Design of Health Care Centers in the Universitat Oberta de Catalunya (UOC). He has extensive knowledge of specific facility projects, specially the design and the construction stages.

Xavier Rocafiguera  
Industrial Engineer  
With a 30-year experience, he has managed facility and complex building projects, such as health care projects, which he has taken part in the design, construction and operation stages. Besides, he has a comprehensive experience in the application of energy efficiency principles during the whole life cycle stages of a project.

Ángel Muñoz  
Architect  
Mr. Muñoz has many years of experience in labor risk prevention. He has taken part in the design and constructive stages of several projects, supported by a career of over 30 years. He has coordinated the construction phases of projects, operating and managing nosocomial risks.

GPO’s team is made up by professionals coming from numerous fields, in order to be able to offer our clients a broader knowledge in every single project and expand our activity scope. From architects and engineers of all specialties to professionals of other fields, such as medicine, depending on the requirements of the project.
Barcelona | Headquarters

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