

PROFESSIONAL MANAGEMENT AND INNOVATIVE SOLUTIONS THAT EXTRACT VALUE FROM PROJECTS

Project Management• Facility Management• Renderings & Animations • Architecture • Engineering

SOLUTION INNOVATION PROJECT MANAGEMENT

LICINIA manage projects where innovation is present, offering a complete service of the entire value cycle. We supply tailor-made solutions that fit the needs of our customers. We ask the right questions and solve the difficulties.

LICINIA offer a global service throughout the development of the project. We give professional support to decision making by hierarchical mathematical methods, we help to prioritize investments, locate assets, eliminate risks, write custom projects and make it easier to obtain financing.





CONSRUCTION & PROJECT MANAGEMENT

The GLOBAL MANAGEMENT of the project taking into account the technical and economic aspects, as well as the temporal and risk control.



PROJECT VALUE ENGINEERING

Our innovative value engineering increases project performance by providing requirements at the lowest cost.



FACILITY MANAGEMENT

We manages everything related to the building and we are in charge of even large structures like hotels, shopping malls, stadiums, airports, train stations.



RENDERINGS & ANIMATIONS

Our knowledge is the fastest, easiest way to create amazing, photographic visuals of your 3D models.



QUANTITY SURVEYING COST MANAGEMENT

A Project Monitoring provides technical advice, accurate information on project status, risk reduction and quality assurance



SUPPORT IN PROJECT FINANCING

Advice and management in the search for financing and investment that increases the possibilities to complete the project



THE PROJECT AND CONSTRUCTION MANAGEMENT services to be performed by **LICINIA** pursue the achievement of the following objectives:

OPTIMIZE QUALITY AND FUNCTIONALITY OF THE DESIGN FROM ALL POINTS OF VIEW(USE OF BEST CONSTRUCTIVE SOLUTIONS, EASE OF OPERATION AND MAINTENANCE, ETC.).

OPTIMIZE AND ENSURE COMPLIANCE OF THE INVESTMENT BUDGET.

OPTIMIZE AND ENSURE COMPLIANCE WITH THE DATE OF COMMENCEMENT OF WORK, EXECUTION AND THE EXPECTED COMPLETION DATE.

Optimize and ensure quality execution of works.

The working procedure used by **LICINIA** for achieving the objectives outlined above, will be based on the establishment of control parameters, development of systems and procedures for the review of these parameters, and delivering appropriate information to the **CLIENT** about the evolution of work and future forecasts, along with corrective proposals if required.

LICINIA will review the final design to match the "**Functional Program**" required by the Client, ensuring the technical adequacy of the solutions adopted, the consistency of the various documents that comprise the analysis of the work units to be specified, the correct processing of the measurements, the adequacy of prices for the construction budget and the adequacy of the documents required to confirm that the scope is covered in full.

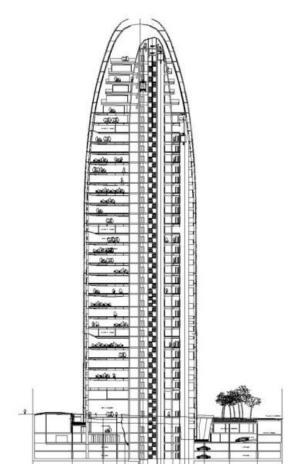
Constant monitoring of the implementation of the project will help to unify design criteria, detect areas for further improvement and identify outstanding final decision issues, always aiming to a more efficient coordination of the design work, which will result in a minimization of conflict, unexpected changes, delays and cost deviations during construction.

The starting point for a successful construction process will be to ensure that the project **is done in strict compliance with local regulations and the needs and expectations of the Client**. This will be the first of *the key success factors* in the development of the work.



REFERENCES

- Hospital Maintenance Department: Procedures Consultancy. Optimization services and saving more than 150.000 € / year.
- University Campus:
- Technical Services Departament, Management & Direction.
- Clinic: 16.000m2, 110 Beds
 Facility Management: Full renovation and operation
- Hospital Group: 130.000sqm, 800 Beds
 FM Department: Management and Implementation as an external business unit
- 5 Stars Hotel Complex: 1.034 Rooms Technical Manager services: Maintenance and Energy supply. 2,2 MW
- University & Training Services
- Direction and management of training programs in Masters and Postagraduate courses for Companies and Universities
- Directión of the Executive Facilities Management Master, La Salle University Madrid
- AQPE Court Member (Agency for Qualification of Professional Engineers) certification for FM professionals
- Private Companies: Consultancy and Advisory Services:
- General Services Direction. SLAs and KPls procurement procedures implementation.
- Maintenance Management of different big companies buildings.
- Development and implementation of Control panel and Indicators





-Maps on FM Business units in TIC and Financial companies.

- Advising to develop the FM Business in Services Companies. Implementation advisory of the FM Management Model for Services Companies
- Functional Planning Project for a 50.000m2 building.
- FM feasibility study for mentally disabled residence
- Audit of Architecture Projects and Facilities of a residential building and its impact, functionality and cost efficiency in the building operation.
- Audit of costs and services, analysis and proposals for reducing costs and improving services. Complete procedure for hiring services. Incorporation of SLA's in contracts
- International tender FM bidding drafting, in Spain, for multinationals
- Audits to check the IFM contract status and enforcing in multinationals corporates
- Auditors and experts in the companies outsourcing proceedings.
- FM Spanish Market Study
- Public Administration: Sants-Montjuich, Bcn district (2.090 Ha, 69 Public Buildings)

Maintenance: Schools, Sportive Buildings, Office Buildings Primary Care Centers, Geriatrics, and Social Buildings

- Public Administration: Consultancy and Advisory Services
- Public administration Headquarter Management

- Preparation of the public tender technical requirements of a FM management support tool, CAFM or IWMS type.





IMAGINATION, CREATIVITY AND GREAT ARTISTIC SENSITIVITY

Imagination is the only limit to the number of possibilities that can be given in the development of a project. Everything you want to show or express about a project, we can carry it out.





3D Infographics

- External perspectives.
- Interior perspectives.
- Photomontages and integration in real environments.
- Video animation.
- 3D Oriented to product.
- Stereoscopic vision.

Video

- •Production.
- Postproduction.
- Real and infographic. •Edition.
- VR 360º
- 360º virtual tours.
- Real and infographic.









MULTICONFERENCECENTER, SAAREMAA, ESTONIA

Plot Surface: 44.700 sqm. Built Area: 17.420 sqm 7 Conference rooms: Planetarium, Concerts, Congress, Business Max capacity: 4.700 pers









KURESSAURE EVENTS CENTER



50



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THE ESPANYOL FUTBALL STADIUM – BARCELONA - SPAIN











THE ESPANYOL FUTBALL STADIUM – BARCELONA - SPAIN

The RCD Espanyol Futbol Stadium, awarded with the title of best global sports facility in 2010. It was the pioneer in using of renewable energies.

The RCD Espanyol Futbol Stadium in addition to having this **solar roof**, **it was built with energy** efficiency criteria. It is a modern and last generation stadium.

The Splau mall that is part of the whole complex, is the commercial center of the Spanish state most visited annually.

Prize of Stadium Business Awards website and Guinness,to the best sports venue of theyear, in a contest in whichhave taken part more than1,000 worldwide projects. The jury opted for EspanyolFootball Stadium by:

EXCELLENT VALUE FOR MONEY (LESS THAN
 500 € PER SEAT)
 ECOLOGICAL INSTALLATION
 SUSTAINABILITY INSTRUMENTS APPLIED FOR
 OPERATION
 HUGE RESOURCE USE AND ITS
 ENVIRONMENTAL COMMITMENT
 FUNCTIONALITY AND VERSATILITY







Construcció del nou estadi del RCD Espanyol









INTERNATIONAL AWARDS & MEDIA RECOGNITION

34 SOCIEDAD SOCIEDAD 35 PREMIOS QUATRIUM El pasado 4 de junio se celebró en el Hotel Hesperia Tower la IX edición de los Premios Quatrium. Un evento organizado por Grupo Via en el que se premió a los profesionales más destacados del sector innobiliario nierías, interiorismo, arquitectura y hot Sponiar Principal gasNatural Organiza MARIA INTERIORISMU IN INCOMES Indal GRUPO VIA ADISA MANAGEMENT

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0 www.licinia. Entertainment Hall and Convention Center Constantin - Algerie



LANDSCAPING

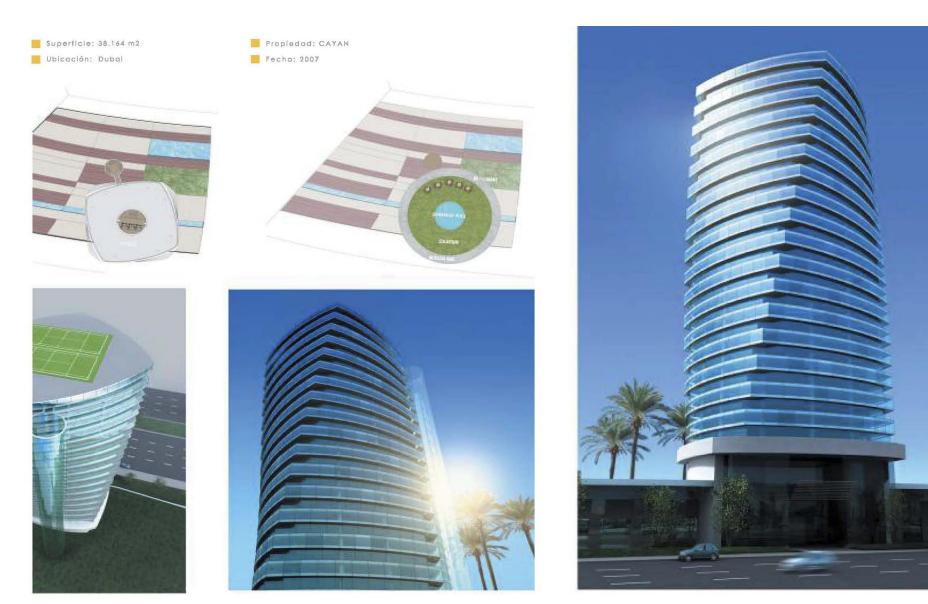






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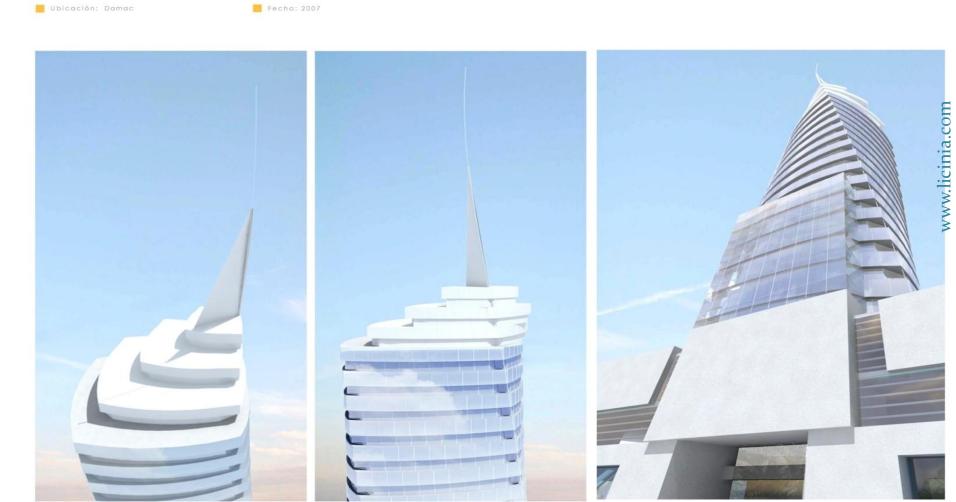






Superficie: 17.000 m2

Propiedad: DAMAC properties

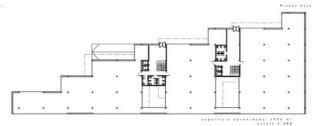




Superficie: 6452 m2
Ubicación: San Cugat del Vallès

Propiedad: Jones Lang Lasalle
Fecha: 2006







****** 1.488

esperitate apresimadat 1993 m¹.



Superfície: 11511 m2 📒 Ubicación: Akure, Nigeria





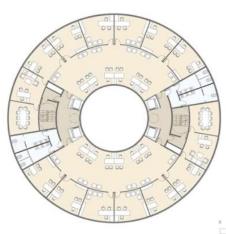




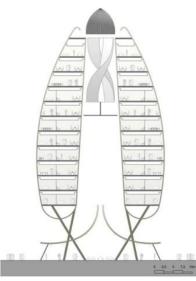


Superfície: 7875 m2 Ubicación: Iraq Propiedad: Ministry of Industry and Energy

E Fecha: 2012



2.5 5 7.5 10m





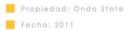


Superfície: 10.014 m2 Ubicación: Tarragona Propiedad: Yachts Marine
 Fecha: 2012



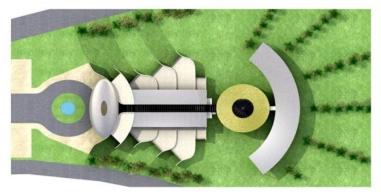


Superficie: 4862 m2 📒 Ubicación: Akure, Nigeria





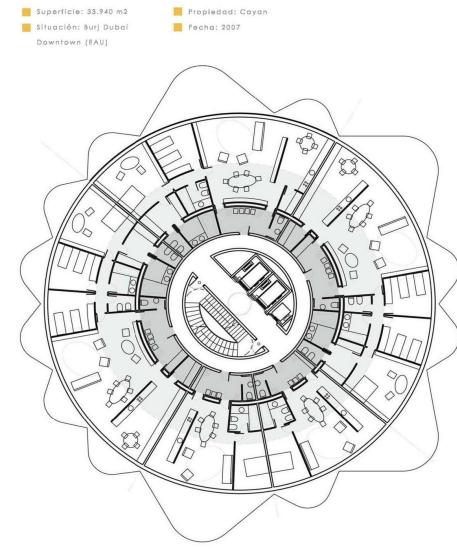






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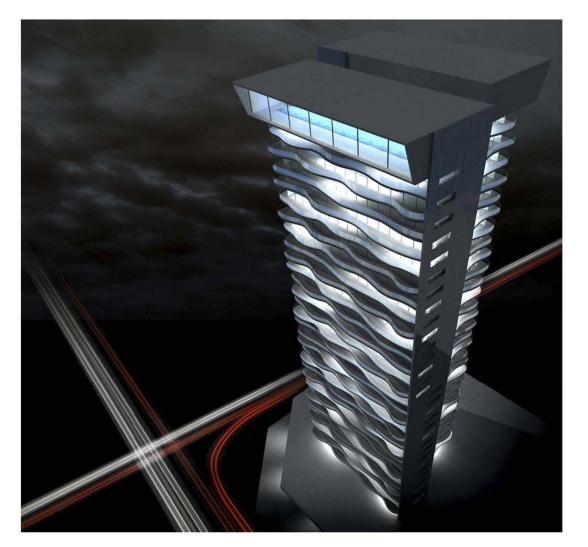
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ARCHITECTURE

Superficie: 33.940 m2 Situación: Burj Dubai Downtown (EAU)





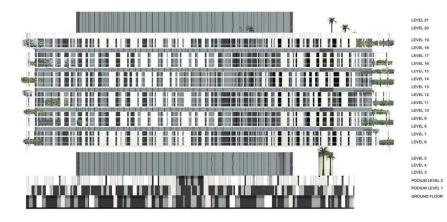


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 Superficie: 65.800 m2
 Situación: Palm Jebel Ali Dubai (EAU) Propiedad: Damac Fecha: 2007

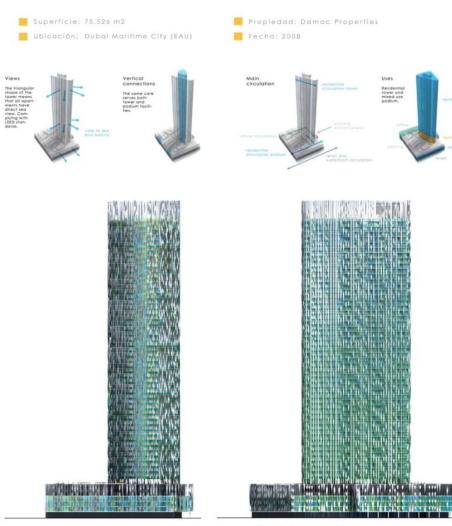












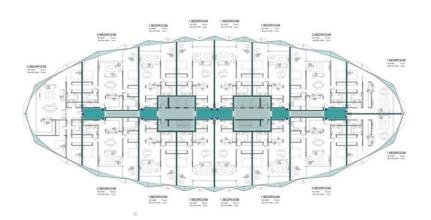


EAST ELEVATION Scale 1:1000

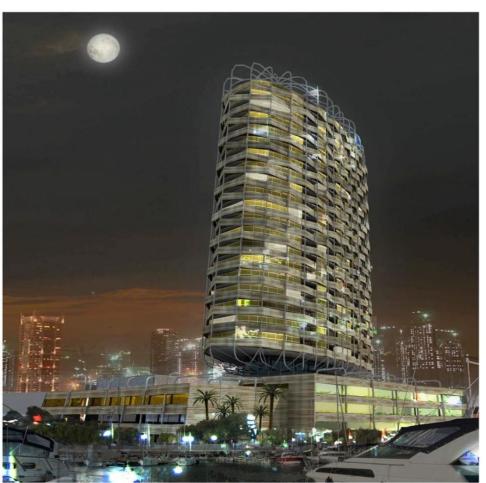
NORTH ELEVATION Scale 1:1000



Superficie: 47.860 m2 Situación: Reem Island-Najmat Abu Dhabi (EAU) Propiedad: Damac Properties
 Fecha: 2007





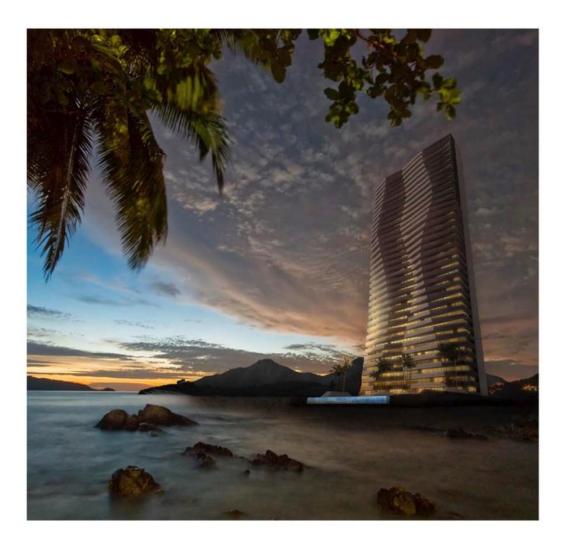


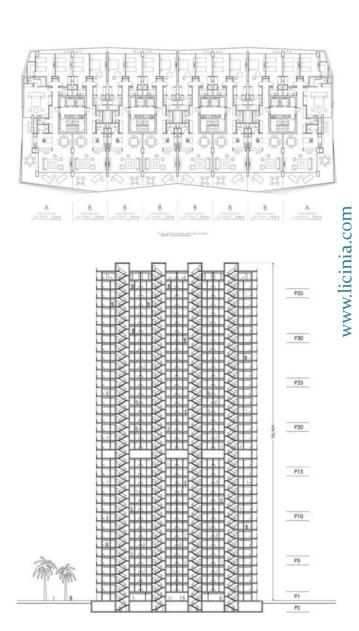


ARCHITECTURE

Superficie: 58.590 m2 📕 Ubicación: Mazatlán, Mexico 📃 Fecha: 2008

📕 Propiedad: Hispania Investment









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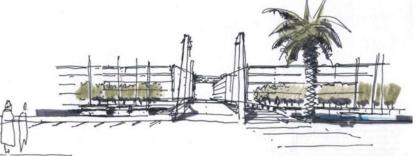
ARCHITECTURE

Superficie: 139 Ha Ubicación:Najmat Abu Dhabi

Fecho: 2007



















CPD GLOBAL SWITCH MADRID Biggest neutral CPD in Spain

Details Developer GLOBAL SWITCH PROPERTY SL Location SPAIN- Madrid Services Pre-design Services, Schematic Design, Developed Design, Construction Documents, Project and Work supervision, Activity Permit. Construction amount $240\ 304 \in$ MEP amount $67\ 560 \in$ (CPD) Dates 2009-2010 Built Area 8 000 m²

Description / Other features

The building is in Yécora street, in the North-East zone. It has raised floor height of 600-800mm.

Two power supply connections of 15 kV. The power density is about 1000 W / m 2.

The air conditioning system meets the requirements of temperature and humidity marked regulations. This system is

backed by generators.

Control system with specific equipment maintenance and facilities management, with monitoring of consumption.

Fire safety system with analog detection and extinction by CO₂. Control system security access control, intruder alarms, CCTV. The TIER level is 3.



CPD INDRA HEADQUARTERS

Computer services company **Details** Developer GRUPO CASTELLVÍ Location SPAIN- Barcelona Services Pre-design Services, Schematic Design, Developed Design, Construction Documents, Project and Work supervision, Activity Permit. Construction amount 12 000 000€ MEP amount 1 567 048,45 € 67 560 € (CPD) Dates 2008-2010 Built Area CPD_150 m² Building_10 375m²

Description / Other features

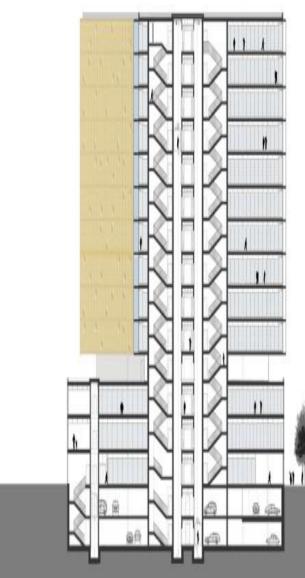
Corporate office building located on a trapezoidal plot registered in the actions planned for the sector 22 @ in Barcelona. The total floor area is 10.375 m2 and consists of ground + 12. The plants are located above ground for offices, and the ground under the parking for 40 vehicles and technical rooms, private use. Within the overall project INDRA headquarters in Barcelona, the CPD is a 260

m2 space it occupies the third floor of the building.

In the room there are 6 technical climate units fed by water drive conducted under ground and return plenum.

The fire suppression system is by FM-200 gas and a system of dissemination of the same through the floor, ceiling and environment.

Its power comes directly from the building circuit UPS to ensure continuity of service, with five subframes in the room.

















ENGINEERING

CPD CAMPUS ESADE SANT CUGAT

University Campus, Residence, creápolis **Details** Developer ESADE Location SPAIN- Barcelona Services Pre-design Services, Schematic Design, Developed Design, Construction Documents, Project and Work supervision, Activity Permit. Construction amount 76 600 000 \in MEP amount 251 025 \in (CPD) Dates 2005-2009 Built Area CPD _150 m² Building_67 500 m²

Description / Other features

Within the overall project of building runs a data center that will service the entire university ESADE. It is a space of 150 m2 located in the lower part of the building, connected to room operators Campus.

It has a raised floor 300 mm of free space to accommodate electrical wiring, data cabling trays distributed through the top of the room.

The cooling is done using 2 machines gas, redundant to acclimatize the whole atmosphere.

Its power comes directly from the generator set circuit of the building to ensure continuity of service.







CPD BANC SABADELL HEADQUARTERS

Sant Cugat del Vallès **Details** Developer BANC SABADELL Location SPAIN - Sant Cugat del Vallés (Barcelona) Services Pre-design Services, Schematic Design, Developed Design, Construction Documents, Project and Work supervision, Activity Permit. Construction amount 60 000 \in MEP amount 14 200 000 \in 340 555 \notin (CPD) Dates 2006-2009 Built Area 93 100 m2

Description / Other features

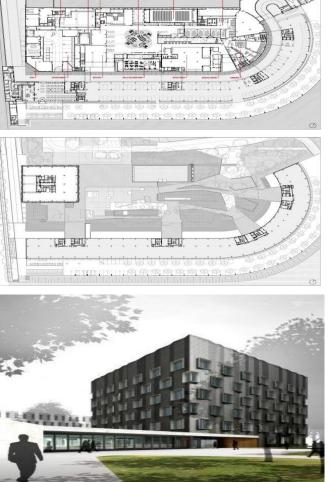
The proposal intends to demolish the existing industrial building to concentrate its buildable volume in a new office, so that a large landscaped area is released in the center of the solar that becomes the entry point to the various buildings of the new headquarters.

The design of the data processing room of this building is framed within the extension of the Sabadell Bank Headquarters in San Cugat del Vallés.

The purpose of this extension is to incorporate free cooling system AST. The final design is done to adapt low voltage installations,

structured cabling, centralized control, security CCTV, Access control,

leak detection systems and fire water, air conditioning and ventilation to the new space.TIER III classification.





ENGINEERING

CPD BUILDING RELOTGE

Barcelona Provincial Council

Details

Developer DIPUTACIÓN DE BARCELONA Location SPAIN- Barcelona Services Pre-design Services, Schematic Design, Developed Design, Construction Documents, Project and Work supervision, Activity Permit. Construction amount MEP amount 355 000 \in (CPD) Dates 2008-2009 Built Area 133 m2 (CPD)

Description / Other features

133 m2 room located in the building Rellotge of the Barcelona Provincial Council. In 2008 took place the rehabilitation of the building to adapt to the administrative needs arising. For this purpose one of its rooms is amended to include the data processing center, adapting low voltage installations, telecommunications, centralized control, security, air conditioning, ventilation and fire detection and the requirements of the new use.







CPD T MARENOSTRUM Gas Natural Headquarters

Details

Developer TORRE MARENOSTRUM S.L GAS NATURAL SDG S.A Location SPAIN- Barcelona Services Pre-design Services, Schematic Design, Developed Design, Construction Documents, Project and Work supervision, Activity Permit. Construction amount 60 000 000 \in MEP amount 15 000 000 \in Dates 2002-2008 Built Area 49 477 m²_4 000 m² (CPD)

Description / Other features

A tower of 85 m height and a horizontal 85 m long body. This horizontal body is attached to the vertical tower between floors 5 and 9. Energy saving lighting, temperature control and power generation.

Air conditioning is subdivided into 54 indoor and 843 outdoor units, in order to have maximum flexibility and avoid unnecessary production of heat or cold. The property has a system of automatic lighting control in its 13,000 points of light, to avoid unnecessary energy expenditure.

The building, covered with solar panels, can feed electricity from the grid or directly from a cogeneration plant being installed in the neighborhood.











CPD T-SYSTEMS HEADQUARTERS BARCELONA Espronceda Street

Details

Developer T-SYSTEMS ESPAÑA Location SPAIN- Barcelona Services Project adequacy of existing requirements for new client installations, bidding, supervision of implementation, commissioning and maintenance plan writing. Construction amount --- \leftarrow MEP amount --- \leftarrow MEP amount --- \leftarrow Dates 2006-2007 Built Area CPD 1_ 450 m² CPD 1_ 450 m² Building_23 250 m²



Description / Other features

The CPD is located in the former premises of the Atlantic Bank Espronceda street in Barcelona.

Is the design and adaptation of two spaces for CPD category TIER III.

The project also includes the adequacy of an administrative area and a permanent control room.

Provides electricity facilities, uninterruptible power supplies, communications, access control, HVAC, fire suppression, etc. N + n redundancy, load 1,500 kg / m2 of raised floor height of 900 mm.

CPD TELEFÓNICA HEADQUARTERS_District C Telecomunication city

Details

Developer TELEFÓNICA Location SPAIN - Madrid Services Pre-design Services, Schematic Design, Developed Design, Construction Documents, Project and Work supervision, Activity Permit. Construction amount 500 000 \in MEP amount 80 000 000 \in Dates 2004-2008 Built Area 375 000 m2

Description / Other features

The District C Telefonica, located next to the M-40. It consists of twelve buildings for offices, four have ten floors located at the ends and eight have 4 floors located in the center.

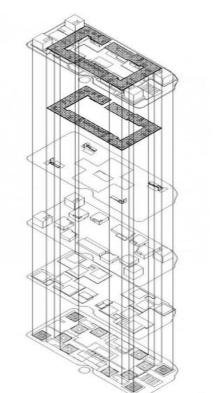
Conceptually, among these cubes, an awning or cover that encompasses environmental tends covers and defines the perimeter of the campus.

It is the biggest crystal complex in Europe. Designed to accommodate

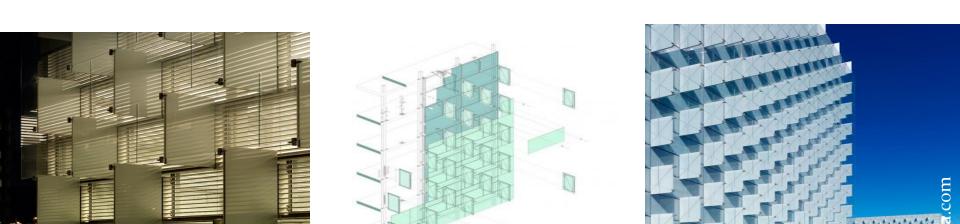
14,000 workers, containing offices, restaurants, nurseries and shops.

Coated with solar panels, this awning captures energy from 3.8 hectares(18% of consumption of the complex) and what is more important, shaded facades and spaces. The design of the complex will allow Telefónica an important role in climate control, 15% in winter and 34% summer savings. The energy project will involve an investment of more than EUR 21 million and will generate more than 3.6 GWh per year.

ENGINEERING











CPD ESADE PEDRALBES Broadening access/ auditorium/ parking

Details

Developer ESADE Location SPAIN- Barcelona Services Pre-design Services, Schematic Design, Developed Design, Construction Documents, Project and Work supervision, Activity Permit. Construction amount 4 935 409 \in MEP amount 251 025 \in Dates 2005-2006 Built Area 5931,00 m²



Description / Other features

Within the expansion project ESADE complex, which includes a new auditorium and car park, running CPD that will service all of Barcelona ESADE university. Within the overall design of the building, also runs CPD that will service the entire university ESADE. This is an area of 100 m2 located on the 2nd floor.

It has a raised floor 500 mm of free space to accommodate electrical wiring, data cabling trays is distributed through the top of the room. The cooling is done with 4 gas machines, redundant to acclimatize the whole atmosphere. 2 of them acclimatize UPS room attached to the rack room the other two racks room itself.

Its power comes directly from the emergency circuit of the building to ensure continuity of service.



CALL CENTER

Details

Developer GICAMAN Location SPAIN - Toledo Services Pre-design Services, Schematic Design, Developed Design, Construction Documents, Project and Work supervision, Activity Permit. Construction amount $4568507 \in$ MEP amount 1 800 000 \in Dates 2003-2006 Built Area 6054 m2

Description / Other features

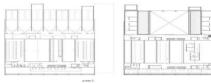
The building has been designed so that it can make optimal use of energy conditions of the environment, solar radiation in winter and proper ventilation for cooling throughout the year.

The center of the building is a large open space, covered by a system that channels all the air conditioning like an atmosphere and not as a cover. Walkways of 5 m wide and 17 m long traverse all space and rely on cores containing services and communications, space tries to give all the volume center plasticity and flexibility.

Energy Control

The control of energy management in the building integrates the use of the building and its facilities, giving priority to the use of the facilities that consume less energy. This means that conventional systems are not always used as the renewable energy enable proper operation.

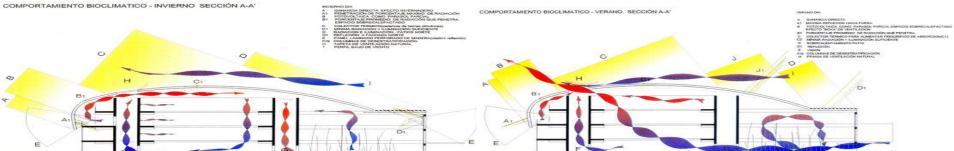












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CPD HP CATALUNYA HEADQUARTERS Sant Cugat del Vallès

Details Developer HEWLETT PACKARD Location SPAIN Services Pre-design Services, Schematic Design, Developed Design, Construction Documents, Project and Work supervision, Activity Permit. Construction amount MEP amount Date 1994 Built Area 22 000 m²



Description / Other features

One of the first assignments was the development of a Master plan for all future buildings of different uses. Once established RFA management made two buildings in two successive stages.

First a building of high-tech production, which was well received by both its design and functionality, with a commendable degree of quality of the company.

Second, a multipurpose building hosting offices, cafeteria and main access was performed. The building also received acceptance for its innovative solutions and its incorporation into the landscape.

INNOVATION PROJECT MANAGEMENT



SOLUTION

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