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Fernando Querejeta President

We have never been as well prepared as now to navigate in troubled waters

#### Navigating in Troubled Waters

Overall, 2010 ended very much as we expected for Idom. The economic situation remains precarious, especially in the financial world. In Spain, unemployment rates are still high and investments in public infrastructure and services are being sharply cut. While there have been both positive and negative changes, the 2011 economy may be similar to that of 2010. It appears the economic crisis will continue affecting us all.

We are all inevitably influenced by the conditions that surround us. Idom has been fortunate by adapting to these circumstances resulting in an overall positive year. From a quantitative perspective, these results will enable us to continue improving our capabilities and reinforce our economic stability for the future. There was an increase in new project contracting during 2010, especially internationally; our presence outside Spain continues to rise as more and more significant and notable projects are obtained in all areas.

Some of the highlights of our trajectory this year include projects like the design of telescopes, including the Advanced Technology Solar Telescope in the U.S. (Hawaii) and the European Extremely Large Telescope (E-ELT) of the European Organization ESO in Chile. In addition, we participated in innovative projects such as the next generation of combined cycle power plants for General Electric and the high-speed rail and subway projects in Poland, Colombia and Vietnam. Other Idom successes include the advancement of our consulting business in Mexico, the continuation of design work of universities in Libya, our participation in the revamping of the Talara refinery in Peru, the design of security systems of archaeological sites in Egypt, and much more.



Luis Rodríguez Llopis General Director

2010 has undoubtedly been a successful year for Idom as we have learned to adapt to the circumstances

Thanks to these projects and several new contracts in Spain, we have maintained our range of professional services with minimal effects from the economic slowdown. The award of several thermal power projects allowed our current portfolio to surpass what we had early in 2010, improving the outlook of the Seridom group.

We have made considerable progress on our 2010 goals of developing new markets and services. In addition to previously mentioned projects, we are moving forward into new areas like hospital management innovation, advanced tools for the design of buildings (BIMS) and emphasis in sustainability construction. New developing markets in geographic areas include Egypt and the Persian Gulf countries.

Finally, I would like to highlight some other achievements that will have a positive effect in the future of Idom. In the sphere of architecture, it is important to emphasize the opening of CEIBS Business School in Beijing, the design of the Bilbao Arena sports hall in Miribilla and the 112 of Reus building. Once again, ACXT was the recipient of many design awards and recognitions.

In the civil engineering sector, most notable is the current operational status of several high-speed rail lines (such as in Valencia), in which Idom played a key role. There are many more examples of projects in this report, in which our clients allowed us to participate with success. Once again, our clients have enabled us to chart a course through these troubled waters.

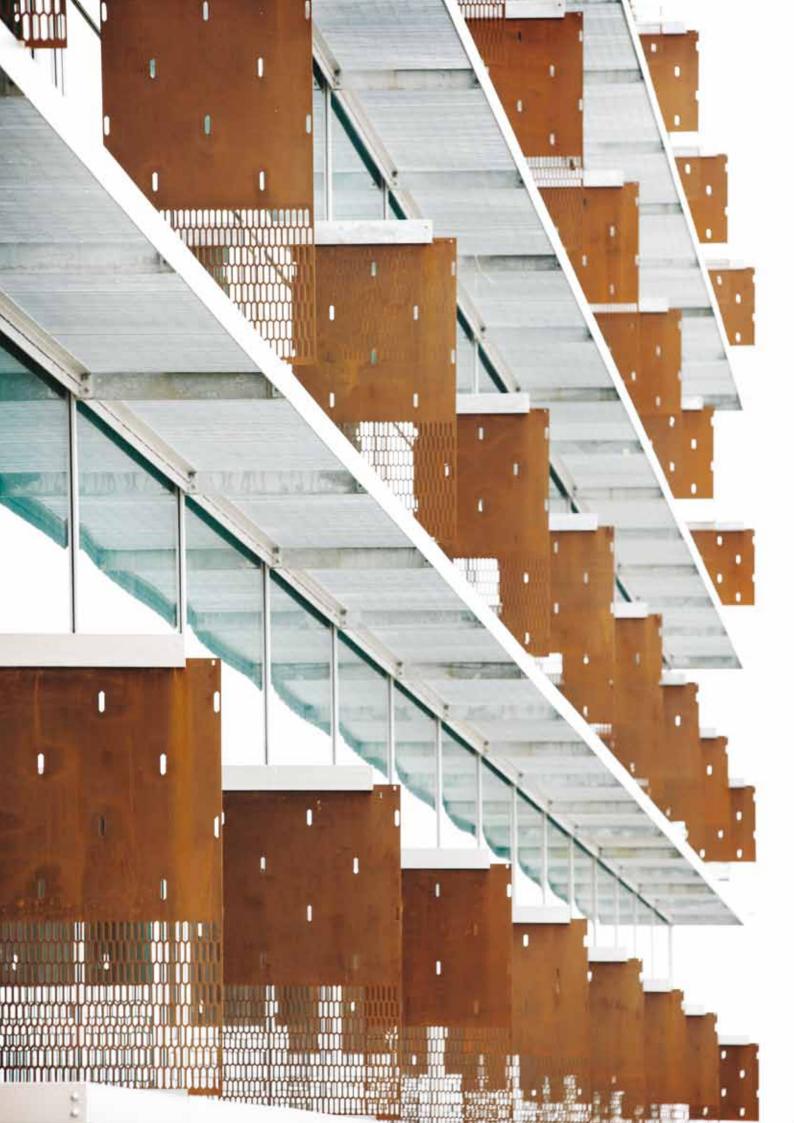
## IDOM RELOCATES PRINCIPAL OFFICE

In December 2010, the Madrid office moved into their new building designed and implemented entirely by Idom. The building is located in the northwest of the capital within a garden setting overlooking to the Monte del Pardo. The proximity of the metro and the M-40, as well as a large parking lot, allows quick access by both public or private means.









#### ENVIRONMENTAL RESPONSIBILITY

A step forward in energy efficiency, comfort and water conservation, all in one office building.

The facilities were designed in a way to maximize energy efficiency by following a sustainable strategy. The enclosure includes a series of design elements focused on minimizing energy demand of the building. Its orientation, optimization of holes, high thermal insulation, high-performance glass, exceptional solar protection and double skin façades and roofs are a few of the measures utilized.

The main air conditioning system has its own structure due to the building's active configuration (TABS, Thermally Activated Building System). It is combined with an evaporative cooling process at night and has important benefits over conventional air conditioning systems, drastically reducing resources consumption and significantly increasing the comfort of its users.





## THE WATER CYCLE

Water management is also incorporated organically into the life of the building. It captures 100% of rainwater which is reused in the irrigation system, the treatment and use of sanitary water, and the cooling system of the building through evaporation.







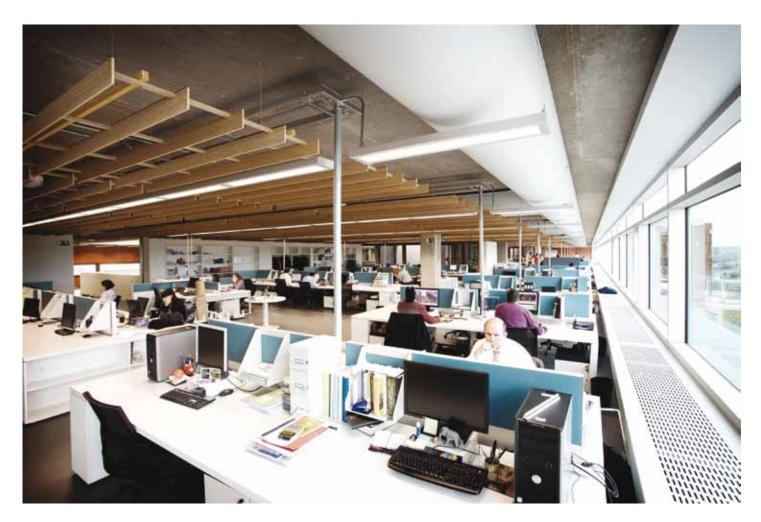
Natural ventilation is possible through connecting internal hallways, which cool the building without the use of the air conditioning system.



#### MULTIDISCIPLINARY WORK

With over half a century of experience in developing projects of increasing complexity, Idom has its own methodologies when it comes to organizing workflows and teams. From the moment of conception, the building was a multidisciplinary body in which architects and engineers have shared, in a symbiotic way, the design of architecture, installations, as well as the energy and communication systems.

Flexible and adaptable to the needs of the moment, the new principal office allows spaces to provide personalized attention to the clients, project start-up, individual reflection, project development or simply brainstorming.





#### **UNITY AND DIVERSITY**

Idom is a unique company with a strongly coordinated management team, divided into various technical, geographic, and functional units. These units cooperate with each other, ensuring the best customer service and sharing knowledge across the groups. At the same time, they maintain Idom's local dimension as well as technical and business features.

In the new headquarters, the distribution of space enhances teamwork and communication, Idom's essential configuration. Three open floor plans include rotating individual workstations and areas for impromptu meetings and events that are more formal.



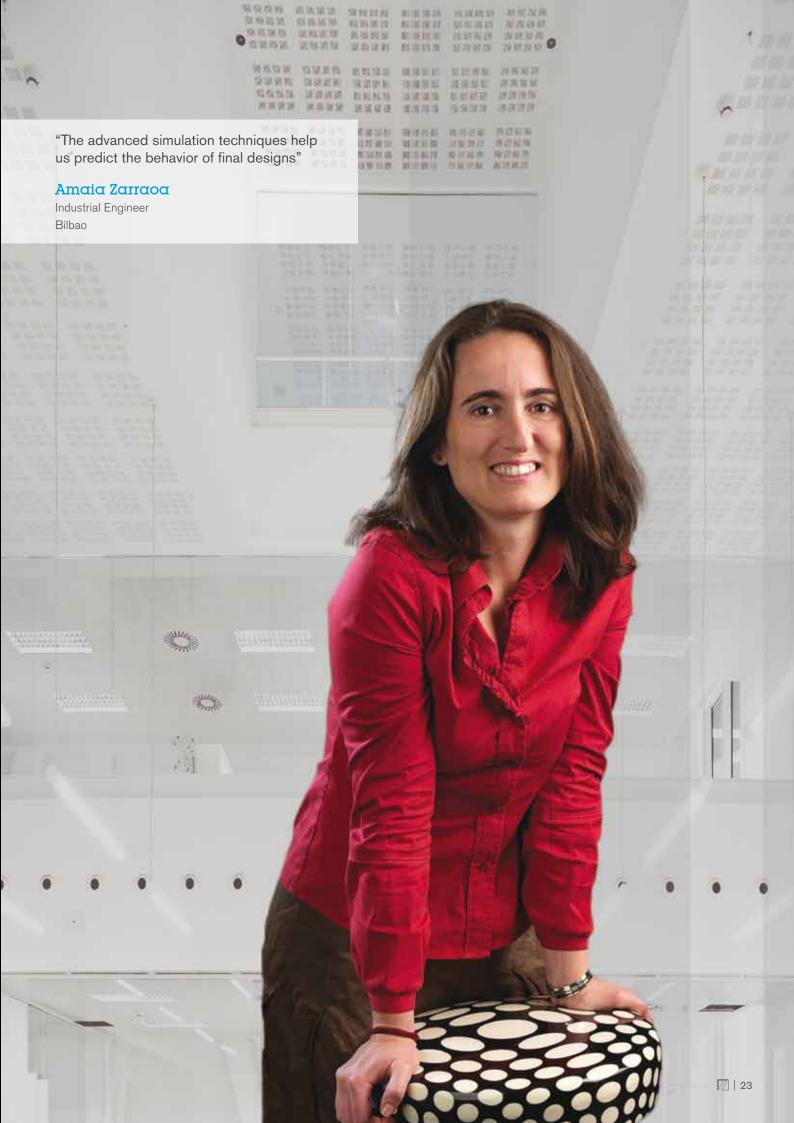
Regaining focus, relaxing and relating to others are all enhanced by a comfortable workplace.





## ACTIVATING CREATIVE INTELLIGENCE

# ACTIVATING CREATIVE INTELLIGENCE



## Activating Creative Intelligence



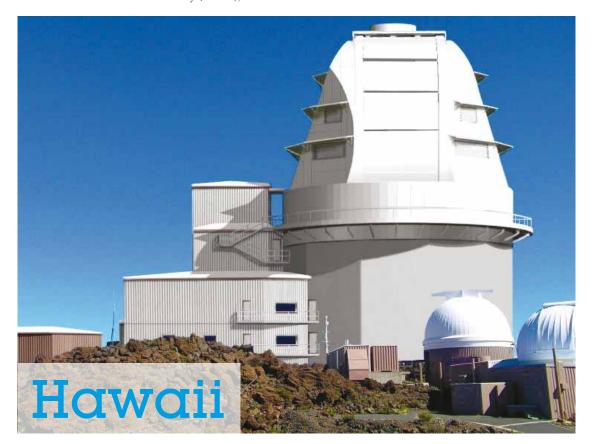


#### SOLAR TELESCOPE ENCLOSURE DESIGN AWARDED

The use of adaptive optics technology will provide the most detailed view ever obtained of the solar surface.

AEC Engineering has been awarded the engineering design of the enclosure for the National Solar Observatory's proposed Advanced Technology Solar Telescope (ATST), which is planned for construction on Haleakal, on the island of Maui in Hawaii.

ATST will be the largest solar telescope in the world, with unprecedented abilities to view details of the Sun. Using adaptive optics technology, ATST will be able to provide the sharpest views ever taken of the solar surface. It is expected that the 4-meter (13.12 ft.) telescope will have a significant impact on the study of stellar magnetic fields, plasma physics and astronomy, allowing scientists to learn even more about the Sun and solar-terrestrial interactions. The ATST project is funded by the National Science Foundation and operated by the Association of Universities for Research in Astronomy (AURA), which includes the NSO.



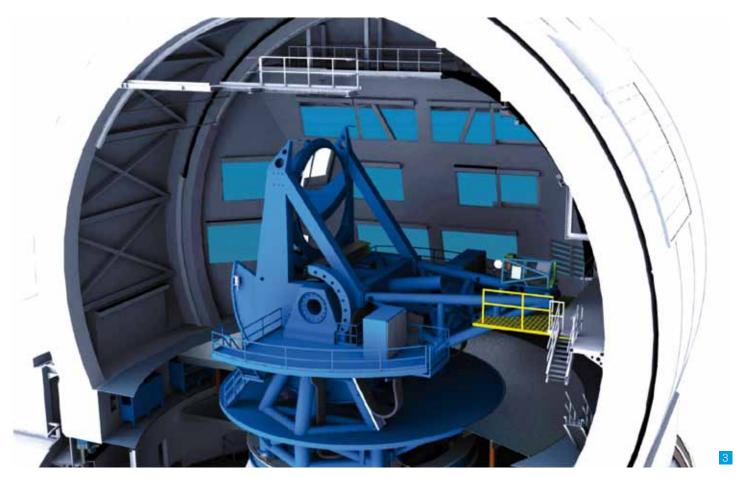


The ATST enclosure is a complex structure designed to protect the telescope assembly. The enclosure structure includes a wide assembly of mechanical sub-systems which, in addition to protecting and servicing the telescope, allow the entire structure to move so it can point, track and slew with the telescope assembly. Solar telescopes differ significantly from nighttime viewing telescopes, in that the thermal loads from the Sun's radiation need to be counteracted such that the heat does not affect the "seeing" of the telescope.

AEC Engineering is part of the Idom group. The project will be led from the AEC-Idom office in Minneapolis, Minnesota.

- 1. Rendering of the ATST facing North. Courtesy of Tom Kekona and Ruth Kneale.
- 2. Cross-section and human scale.
- 3. Auxiliary mechanical equipment.

Images Credit: AURA



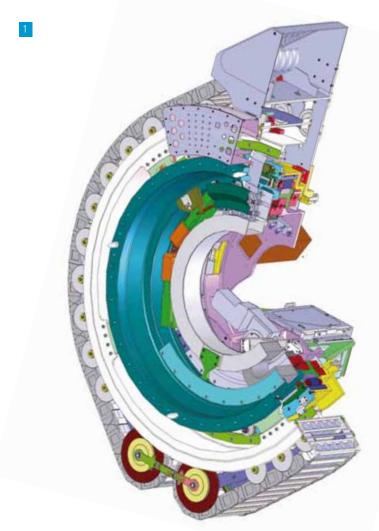
IDOM I 2010 - 2011 CLIENT I GRANTECAN S.A.

# CANARIES GREAT TELESCOPE (GranTeCan) BLACK HOLES, DISTANT STARS AND GALAXIES

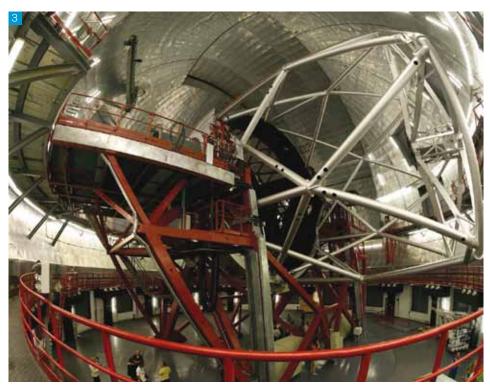
The Gran Telescopio de Canarias (GTC) is an ambitious Spanish project, led by the Institute for Astrophysics of the Canary Islands, to build one of the largest and most advanced telescopes in the world at the Roque de Los Muchachos Observatory (La Palma Island). At this observatory, the conditions are optimal for observation due to the quality of the sky. With the telescope, one may learn more about black holes, the most distant stars and galaxies in the universe and the initial conditions behind the Big Bang, among other fields of astrophysics.

Idom is responsible for the design, manufacturing, assembly and commissioning of the two Folded Cassegrain Sets for the Gran

Telescopio de Canarias (GTC). Each set is composed of an Instrument Rotator -for scientific instruments up to 1,000 kg (2,204 lbs)- and the Acquisition & Guidance Optics. This system provides a rotation range of 530°, a positioning accuracy better than 13 arc seconds or 16 microns, and a maximum speed of 15°/s. In autumn 2010, the Critical Design Review (CDR) was carried out and, after approval, the manufacturing and procurement of the different components of the system started. This project is expected to be finished in summer 2011 after the assembly, integration and verification of the two units is performed.







1. Folded Cassegrain focus
2. Exterior of the GranTeCan.
La Palma Island, 2,400 m (1.5 miles)
3. Interior of the GranTeCan.
View of the 10 m optical telescope frame



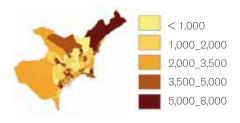
#### ELECTRIC VEHICLE

A research project has been conducted on urban vehicles already integrated into the electrical network.

Along with nine other companies and a research institute, Idom is participating in the "EPV Project", which focuses on the analysis and design specification of a new energy-efficient urban transportation system based on the use of electric cars integrated into the electrical network and driven by renewable energy. Studies have been conducted regarding network models (distribution and generation), mobility, charging infrastructure, business, regulation, in-car chargers and electric car interface-charging stations.

Idom led the project related to electric mobility patterns (i.e., user profiles, analysis of mobility patterns and volume of potential users) and actively participated in the designing of a business model.













Areas attracting vehicles



Office concentration areas (sq.ft)

Commercial concentration areas (sq.ft)

Areas generating traffic







- 1. Analysis of mobility patterns in the Alicante metropolitan area
- 2. Charging station. Image courtesy of Coulomb Technologies
- 3. Idom has carried out the project and managed the installation of charging points in three parking lots for the city council of Zaragoza.

IDOM I 2010 - 2011 CLIENT I Arteche

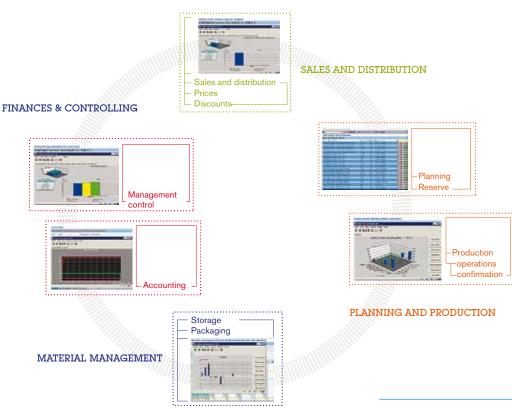
#### NEW MANAGEMENT MODELS

Idom designed the management system for Arteche, an international industrial group leader in the electricity sector.

Over the past decade, Arteche has grown rapidly, acquiring and creating new businesses around the world, diversifying products and making strategic alliances. In order to improve the supply chain, the group's management came to Idom and, following a study, they revealed a series of opportunities for improvement.

This led, led to the decision to design a strategic plan of information systems allowing the integration of management systems and existing processes at the organization. After a thorough analysis of obtainable solutions on the market, the management team decided that Arteche's needs could be met with the introduction of two new operating systems, SAP R/3 and Microsoft SharePoint, which shall support the jobs of over 2,000 people worldwide.





1. Arteche products installed in Finland

2. Modules involved in controlling the main process

3. Location of Arteche's production plants

4 & 5. Various users involved in a single process. Images are a courtesy of SAP.





Arteche Group expanded its commercial presence to nearly 130 countries, with production facilities in the European, American and Asian markets, all of which added complexity to the system.

To carry out the project, a combination of commercial tools was used with Idom's project management methodologies.

A key element of the methodology is the Project Management Office, a workplace that provides a centralized and cross-sectional view of the project. It coordinates and monitors all activities to fulfill goals on time, according to quality requirements without exceeding the budget thus ensuring good customer relations.





#### CIC ENERGIGUNE Energy Cooperative Research Centre

A high-tech complex located in the Álava Technology Park.

The Energigune Cooperative Research Centre is a pioneering project in Europe that will boost the development of third generation alternative energy, promote advanced technology transfer, and enhance the competitiveness of enterprises. Promoted by the Basque Energy Board (EVE), it is part of the Basque government's 2010 Science, Technology and Innovation Plan.





The center has an area of 4,500 m<sup>2</sup> (48,437 sq. ft.) containing "A" rated laboratories with the highest levels of comfort and energy efficiency for research excellence.

The buildings, organized according to a scheme that allows fulfilling flexibility goals in growth, adapt to different programs, optimum comfort working conditions and reduced impacts on the environment and landscape.

- 1 .Detail of the building's facade
- 2 .Laboratory volumes
- 3 .Technical facade and volume of polycarbonate access

#### Energy for subsistence purposes

The building incorporates geothermal, solar photovoltaic and biomass renewable energy sources.

The design of the treatment of the facades took into account the orientations of the buildings, being more opaque toward the South, East and West in order to protect from global solar radiation, and more transparent towards the North direction to catch the adequate amount of light.

The combination of the three different closures of polished stainless steel in the facades allows for the adjustment of the light based on the needs of each space. The panels allow an opaque perception from the outside and a transparent one from the inside.



1. Courtyard with recycled glass and transparency of the perforated facade 2. Polycarbonate panels used for sun protection in the longitudinal axis



ARCHITECT I Javier Aja\_ACXT



## EMERGENCY MANAGEMENT CENTER BUILDING 112 OF BARCELONA - INNOVATION IN THE PROCESS

The future Building 112 of Barcelona will be the largest and most complete center of focus and management of emergency calls in Europe. All operational corps and emergencies related agencies will share work areas and protocols. Building 112 will be the outward expression of the emergency management system of Catalonia, based on mainstreaming // cross-cutting, cooperation and continuous improvement.

The building is designed to integrate into the urban landscape of the Sagrera Axle; it will become one of the most dynamic and modern axles in Barcelona. The project strategy is based on organizing workspaces aligned to the Sagrera Axle and staggering them on the

opposite side, therefore managing to give response to different surrounding urban scales.

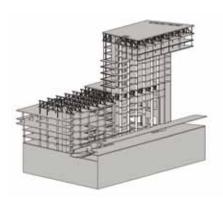
The building will also apply for a U.S. environmental certification, LEED, in the GOLD category. This implies achieving high-energy efficiency levels in terms of facades and installation machinery, while entailing a more demanding work process and mechanisms for managing people and the building after its construction. The mechanisms and functionality of the building will result in expected savings of 41% in water consumption and 23% in electricity consumption when compared to a conventional building.

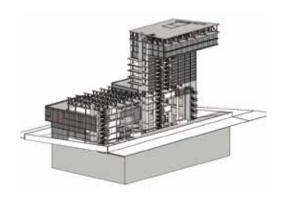






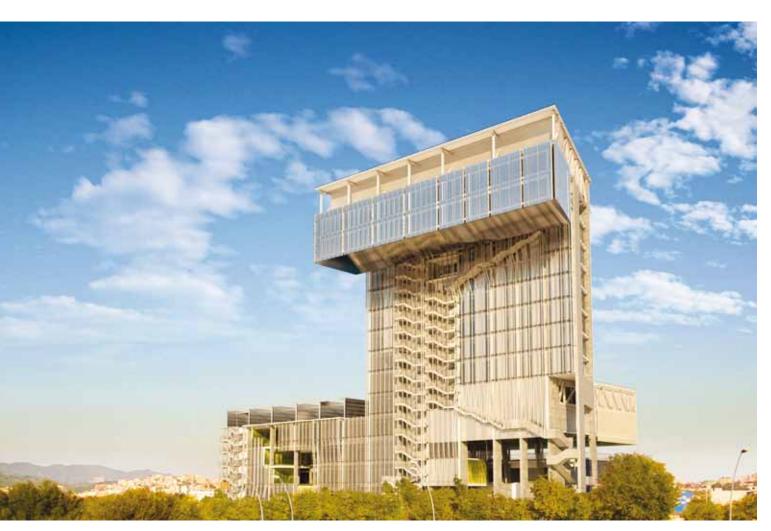






### BIM TECHNOLOGY

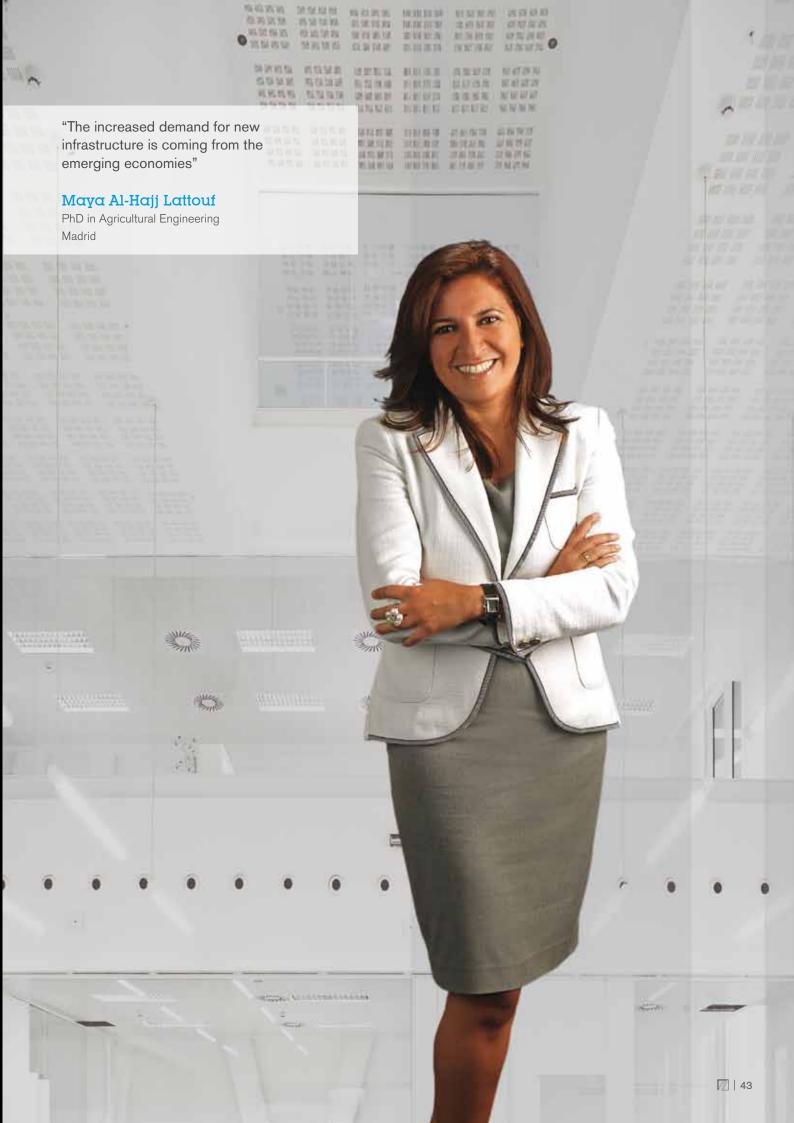
The use of BIM (Building Information Modeling) technology allowed the project development team to cover the design process and the management of all information throughout the lifecycle of the building. The virtual model contains replicas of architecture, structure and installations with their details, materials and characteristics.



### CONNECTING PEOPLE AND PLACES



# CONNECTING PEOPLE AND PLACES



#### Connecting People and Places





# POLAND'S NEW HIGH-SPEED TRAIN IS ON ITS WAY

Idom is designing the high-speed network that will connect Poland's major cities

The Polish government decided to build a high-speed railway to connect Poland's major cities. This new rail line will drastically reduce current journey times as well as the  $CO_2$  emissions caused by passenger transport, while boosting both safety and comfort for passengers.



Blueprint of the train for the Polish capital
 Blueprint of the train on the Vistula River,
by the Switokrzyski bridge
 Lines designed by Idom

SERVICES I Feasibility Studies

Connecting People and Places



2

Around 10 million people will have direct access to the 450 km-long rail line (280 miles). The line will connect Warsaw, Lodz, Poznan and Wroclaw with trains that can reach up to 350 km/hour (217 mph), hitting record-breaking journey times of 35 minutes between Warsaw and Lódz, 95 minutes between Warsaw and Poznan, and 100 minutes between Warsaw and Wroclaw.

It will take 13 months to complete the first of the two stages of the assignment, including the analyses required to choose the best layout for the railway. The second stage involves developing a detailed proposal for the implementation of the chosen outline. The preparatory studies will go on until 2013, and the construction work will start in 2014. The first stretch is scheduled for completion by 2017 or 2018, and the entire railway will be operational by 2020.







1, 2 and 3. Images of the "Valencia, Joaquín Sorolla" station. Photography: Alfonso Calza. 4. Opening of the AVE in December 2010. Image courtesy of Corts Valencianes





#### HIGH-SPEED TRAIN IN VALENCIA

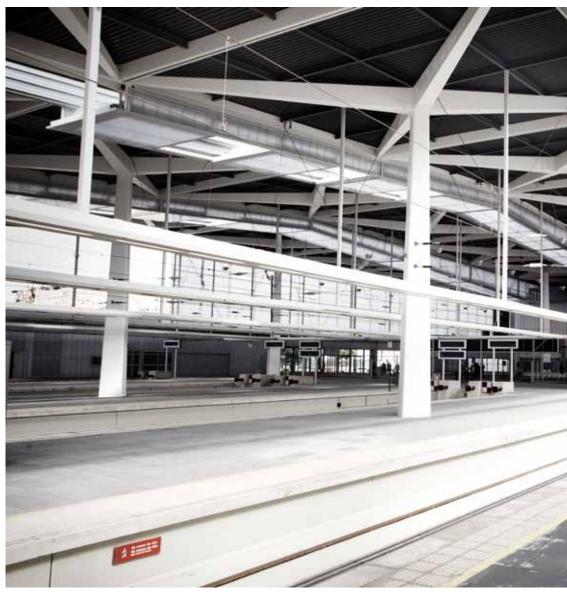
Over the past 6 years, Idom has played a decisive role in the remodeling of the Valencia High-Speed Rail Network for the arrival of the "AVE".

In late December 2010, the high speed train made its inaugural journey to Valencia. At an average speed of between 240 and 260 km/h (149-162 mph) it can reach a maximum of 305 km/h (190 mph.) The Talgo-Bombardier S-112, widely known as "duck", made the 391 km (243 miles) route in an hour and a half.

The new "Valencia, Joaquín Sorolla" station has six platforms that serve nine tracks; six tracks are of international width and three are of standard width, with lengths ranging between 230 and 550 m (755-1805 ft). Its modular structure stands out and has become the symbolic image of the station. The urbanization of the surrounding area includes the implementation of ground level parking of 650 spaces, a new road, a city square, and its integration within the existing urban fabric.







The trajectory from the AVE to the city of Valencia required the excavation of a 480 m (1,575 ft) tunnel using the "Cut & Cover" technique. This was located at 3 m (9.8 ft) off the existing tracks and required the partial demolition of the "Macosa" industrial complex.

Idom was also in charge of the traction power substation projects and power control and autotransformer centers for the Motilla del Palancar - Valencia stretch. In addition Idom was responsible for installing GSM-R Mobile Telecommunications and infrastructure for public mobile telephone operators in that stretch, as well as the design of the line contact area and related systems in the Torrejón de Velasco - Motilla del Palancar stretch.

The development of High Speed Rail Systems is one of Idom's priority fields, carried out through the comprehensive design and management of railway infrastructure. Also, Idom coordinates and integrates the various systems by using highly specialized equipment: Platforms and Tracks, Stations and Main Terminals, Electrification and Energy Systems, and Signaling and Communication Systems.





#### METRO IN HO CHI MINH CITY, VIETNAM

The project includes the design of 32 stations and feasibility studies of lines 5 and 6.

With a metropolitan area of more than 9 million people and one of the highest demographic and economic growth rates in Southeast Asia, Ho Chi Minh City needs new solutions that will enhance mobility and reduce traffic congestion and pollution. Consequently, the Government of Vietnam planned the construction of six underground lines.

In 2009, Idom was awarded the contract to undertake the feasibility studies for lines 5 and 6; these separate contracts were carried out simultaneously. The work, which is already complete, included establishing the base designs and construction of the lines.



SERVICES I Feasibility Studies

Connecting People and Places





Ho Chi Minh city needs new mobility and public transportation solutions. It is working on reducing some 2.5 million motorcycles currently in circulation in this urban area.

The completion of phase one of Line 5, with more than 10 km (6.2 miles) of length, is set for December of 2015. The total extent of the line is 26.5 km (16.5 miles) at the main branch plus a dedicated airport branch of 3 km (1.8 miles) to allow passengers access in and out of the facility. The route layout runs from South to North and turns East to West to surround the urban centre of Ho Chi Minh City.

Line 6 is about 7 km (4.3 miles), with six stations located along its route. It follows the perimeter and the mesh network, ending on the West side structures of the Metro system.

- 1. Recreation of the interior of an elevated station
- 2. Underground interchange. View of interior

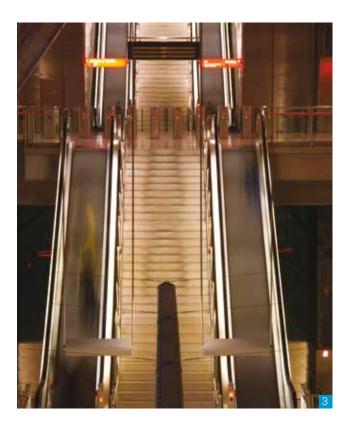


#### BILBAO METRO LINE 3

Will link the center of Bilbao to Bilbao airport.

The first phase of Line 3 (San Antonio - Matiko) is currently under construction and is expected to be fully operational in 2012. The initial stretch of the second phase, which will connect to the airport (Artxanda tunnel), is being implemented and the later stretches are being analyzed.

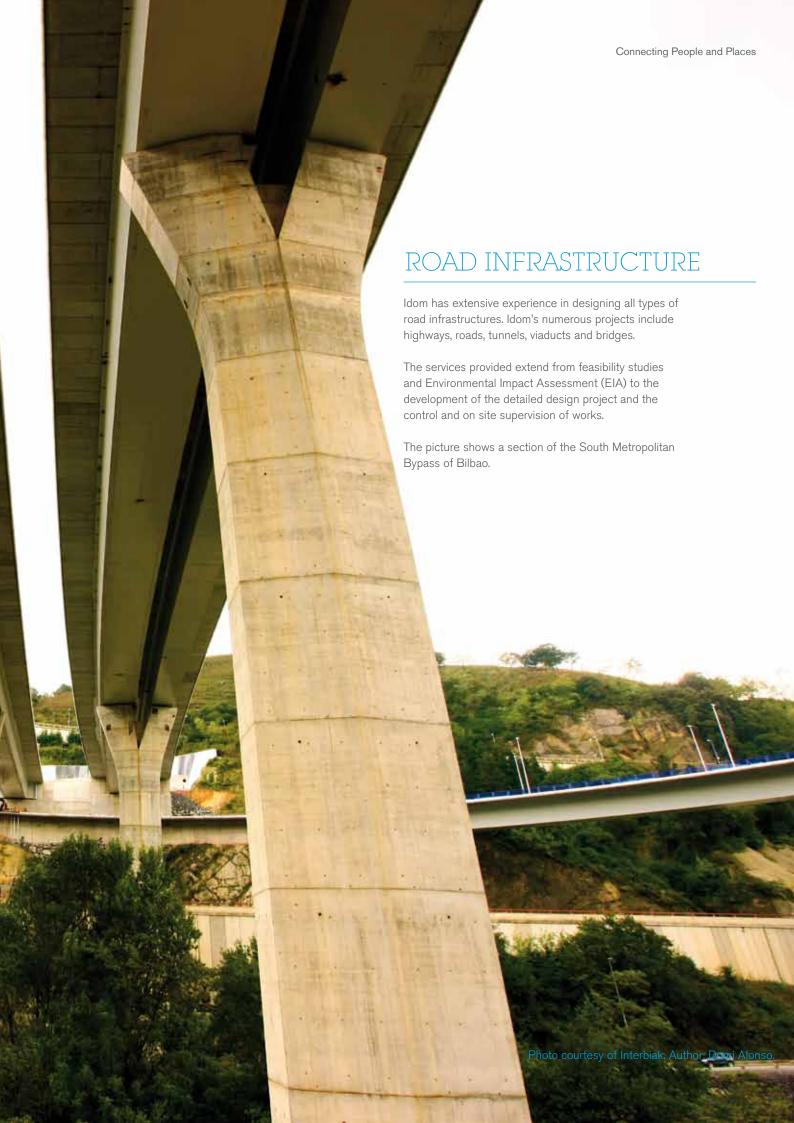
Idom is committed to fulfilling the client's main objectives once the infrastructure work starts and during the construction process. These goals include the supervision of assignments so that they are on time and on budget, compliance with the standards set for quality, and safety and respect for the environment. Idom will coordinate all stretches of Line 3 and the connection to the airport, as well as provide assistance on the Etxebarri - Txurdinaga and Txurdinaga - Casco Viejo stretches.





- 1. General view of a metro station
- 2. Station's ceiling in detail
- 3. Escalators of the Bilbao metro rail network Image courtesy of Euskal Trenbide Sarea (ETS)





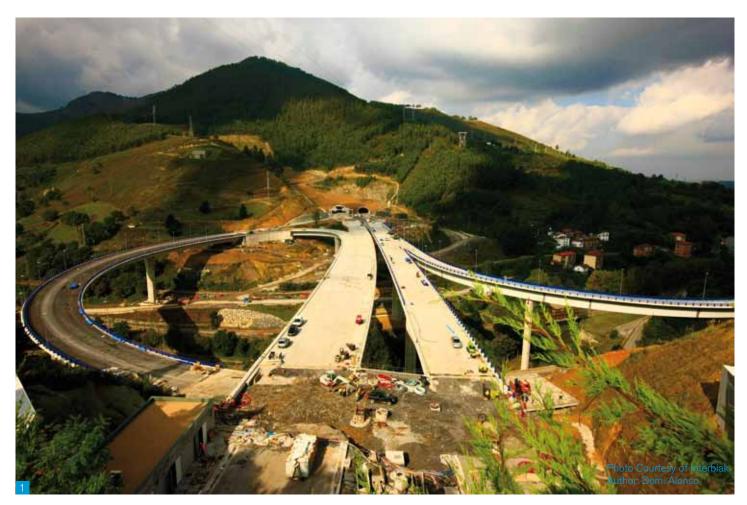
IDOM I 2010 - 2011 CLIENT I Interbiak

#### SOUTH METROPOLITAN BYPASS OF BILBAO

Alignment and noise mitigation were two crucial factors in the design of infrastructure to minimize environmental impact.

The "Supersur" is an urban toll road that will serve as an alternative to through traffic and HGV traffic which currently causes congestion on the A-8 Highway in the Metropolitan Area of Bilbao. Idom has worked on this project for the past 5 years.

In Spring 2011, the first 16 km (10 miles) of the total 36 km (22 miles) Bypass will come into service.

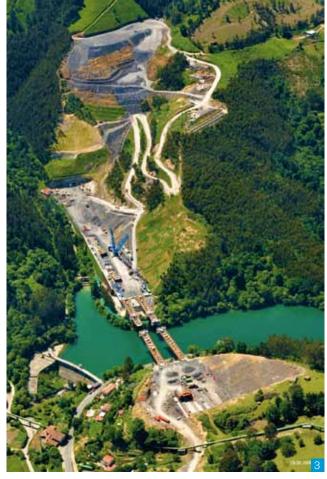




The work has had greater complexity because 60% of the alignment goes through tunnels, and 8 viaducts have been built, some of them with a span of more than 100 m (328 ft).

Idom has been responsible for works throughout the stages of development including preparation of preliminary and detailed design. It has also worked on several elements of administrative feasibility including EIA, expropriation, preparation of specifications and tendering support. Idom provided technical assistance with respect to work management for 6 sections of the Phase 1-a. In addition, it has led a consortium of four companies providing most of the technical expertise, management and ownership of the project with a team of nearly 100 professionals.

1 and 2. Viaducts of Cadagua Junction. 3. Viaduct over Gorostiza Reservoir.



IDOM I 2010 - 2011 CLIENT I Bidegi

# SECOND BELTWAY OF SAN SEBASTIAN

In addition to the project management of a section of the highway, Idom managed the safety and control installations works of the entire highway.

From June 2010, San Sebastian has a new ring road called "Second Beltway" designed to relieve the traffic generated by the nearby French border which has previously affected the urban area of San Sebastian, the capital of Guipuzcoa.

The first San Sebastian bypass, built in the early 70's, had been insufficient for the 120,000 vehicles travelling through it daily. According to studies carried out since its opening, the "Second Beltway" has absorbed almost half of the traffic - mainly traffic from the French border to the peninsula and Morocco. In particular it has reduced the impact of heavy goods vehicles on the local network.

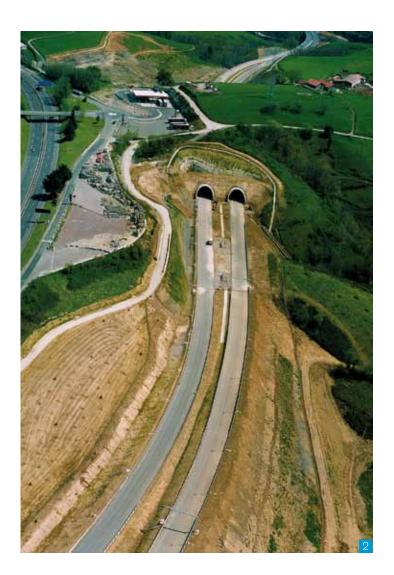


The new toll road promoted by BIDEGI is 17 km long (10.5 miles), of which 8 km (5 miles) has six lanes. There are four connections (N-I radial road, Urumea Highway, and two connections to AP-8 Highway) that together makes them the main road junction in Guipuzcoa.

In the Control Centre of the AP-8 Highway in Zarautz, there are 2,000 control signs of the surveillance and safety systems throughout more than 1,400 km (870 miles) of wiring. Among these signs, there is a CCTV system with 35 fixed and 21 mobile cameras offering total visibility of the 17 km (10.5 miles) to the operators at the Control Centre.

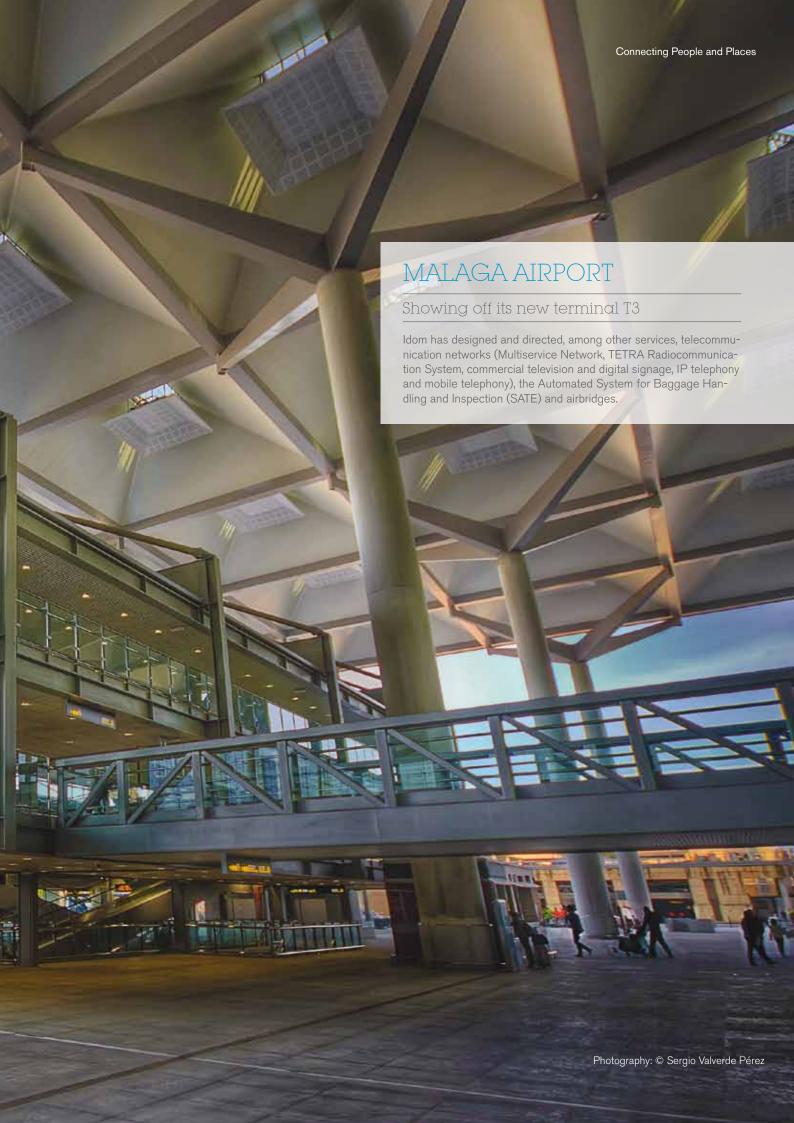
Idom ran the project management of the Aritzeta-Astigarraga Section of about 8 km (4.9 mi). The section includes: Aritzeta Tunnel, 3 overpasses, 5 underpasses, 7 viaducts and 2 cut and covers. One of the main construction challenges has been the execution of Lasarte Junction with the N-I radial road which was constructed while in use by the many drivers who use this junction daily.

- 1. Aginaztegi Tunnel
- 2. View of Aritzeta Area
- 3. Installation of ventilation in Aginaztegi Tunnel









#### PROJECTS ON THREE CONTINENTS

Among others: Buildings & BHS at London Heathrow, master planning in UAE, design & business planning in Mexico

Idom has a specialized team for airport related services, embracing a holistic approach of the whole, as the wide scope of services shows: from master planning to implementation, including engineering design, consulting, business planning, options, construction design and project management.







<sup>1.</sup> Malaga. Baggage check area

Malaga. Baggage arrival belt
 Fuerteventura. Airport Control Tower / Design and Project Management /ACXT



References are categorized by subject: planning, civil engineering consultancy, power stations & airside facilities, airport buildings, BHS, airbridges, operations (includes safety & security), systems & telecommunications, environment and heliports. In all of these categories Idom develops the scope of services.

Some other examples of references are: project management & site supervision for runway 18R - 36L at Madrid - Barajas Airport, security consultancy & implementation for Terminal 1 at Barcelona Airport, engineering & construction design for airfields (including runways, taxiways and aprons) for 25 international airports of Aena, forecasting & strategic analysis for Barcelona Airport

(Chamber of Commerce of Barcelona), engineering & construction design for Fuerteventura control tower, BHS and airbridges design & implementation for several airports.

Over the last decade, Idom has developed the SAOS system (Satellite Orthoimagery Airport System) for AENA, a software tool that has facilitated the centralization, dissemination and exploitation of large-sized satellite images and has recently integrated new functionalities for the calculation of obstacles in airport operations and infrastructure planning.

## CREATING MEETING POINTS



# CREATING MEETING POINTS



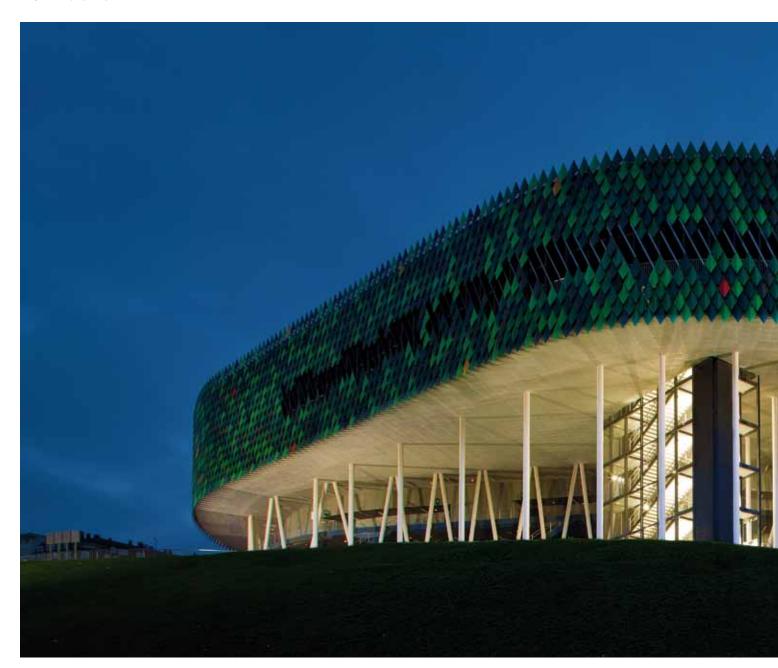
#### Creating Meeting Points



Angola
Saudi Arabia
Austria
Canada
Cyprus
El Salvador
Estonia
Philippines
Guinea Bissal
Ireland
Kyrgyzstan
Montenegro
Nigeria

Paraguay United Kingdom Sri Lanka Ukraine











#### BILBAO ARENA

Sports complex with fields for tournaments and concerts.

September marked the inauguration of the Bilbao Arena – a sports complex and arena located in the Miribilla neighborhood with a capacity of 8,500 spectators. The complex is made up of two parts: the field - with an underground car park on its lower floor (currently the headquarters of Bilbao Basket) and the sports complex.

Inspired by a natural and organic "leitmotif", the field has an arboreal ground, and a rocky ground supports the sports complex.

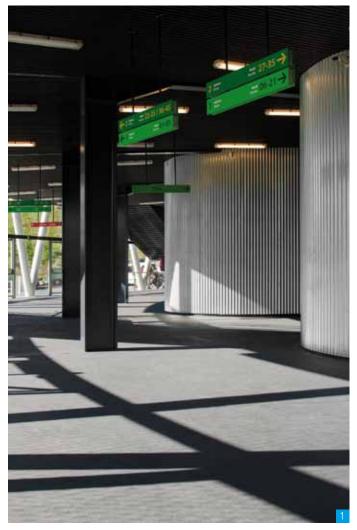
IDOM I 2010 - 2011 CLIENT I Kirolgintza

#### SUSTAINABLE INFRASTRUCTURE

A wide range of environmental measures results in a 50% increase in energy efficiency.

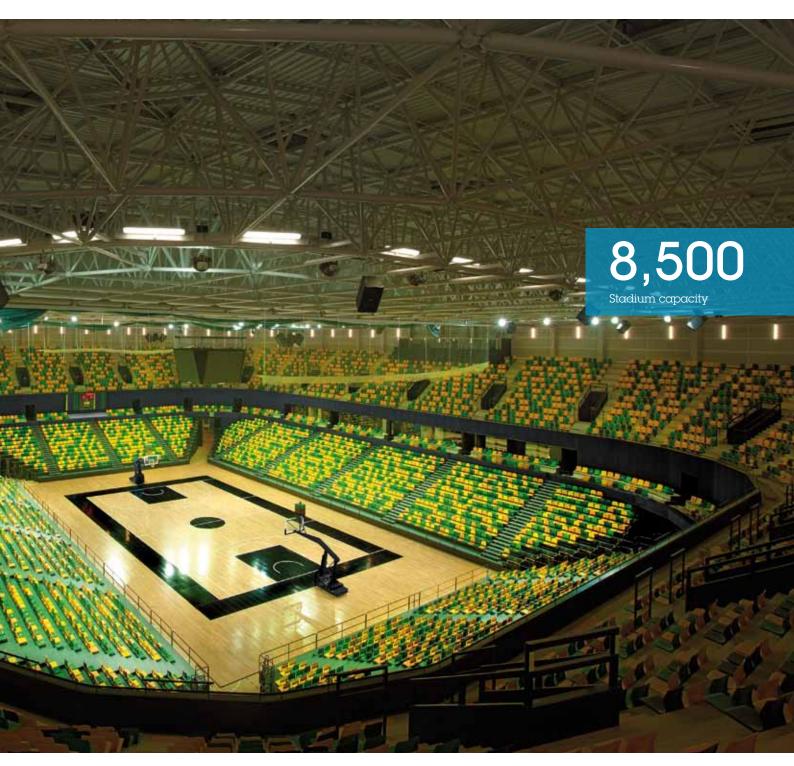
The complex incorporates innovative elements of sustainability, such as reusing water from the swimming pool to clean the streets of Bilbao and a water tank in the field grass of the sports center, to supply the irrigation system. In addition, a cogeneration system generates electricity and produces free hot water for swimming pools and showers.

The sports center also has a large skylight that brings in sunlight to the 27 yard-long swimming pool, the 7 tracks and a 520 m $^2$  (5,597 sq. ft.) all-purpose gym. The building also houses management offices.











- Outdoor transport zone
   Sports field
   Overview of the gym and swimming pool

## MOVING FORWARD WITH PROJECTS FOR MISRATAH CAMPUS IN LIBYA

Misratah University will have eight faculties plus a Learning Resource Building & Central Library, Public Committee, Convention Centre, an ICT Centre, Sport Complex, Student Centre, Health Centre, Bus Station and auxiliary buildings for maintenance workshops, warehouse and control centre.

At the same time, Idom is developing the final design, the landscaping and infrastructure for the rest of the 19 buildings. The estimated completion date of the initial project is 2014.



## 220 acres

This will be the largest university campus in Libya



IDOM I 2010 - 2011 CLIENT I CEIBS



## CHINA

CEIBS, China Europe International Business School



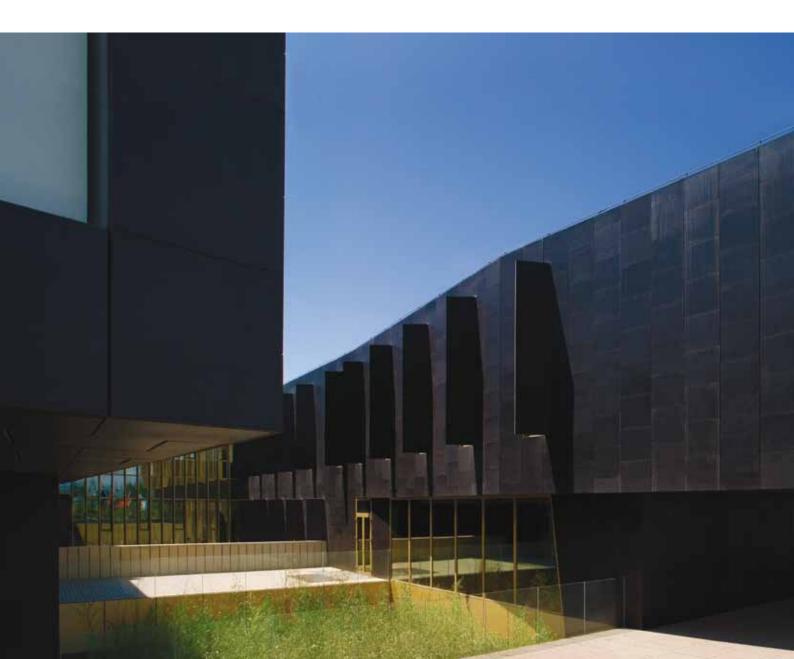
IDOM I 2010 - 2011 CLIENT I CEIBS

### EDUCATIONAL AREAS BUSINESS SCHOOL IN BEIJING

The campus of the best business school in Asia - according to The Financial Times - was designed by Idom.

This young university (1994) founded in Shanghai with the support of the European Union and the Chinese government is growing at high speed and receiving students from countries all over the world. In a few years, it aims to have a global impact providing continuing education to Chinese corporate managers while expanding internationally.

The new campus is located on the outskirts of Beijing in Zhong Guan Cun Science Park. The design followed three basic criteria: the teaching function of the building, the park planning (which raises the buildings as if they were islands in the ocean) and the need to undertake the project in two phases – without giving the impression as incomplete at the end of the first phase. The school expresses the meeting point between China and Europe through its architectural design.









- Detailed facade of the new campus
   Side view of the new building
   Interior of building



#### IBERDROLA TOWER

This skyscraper is shaped as a glass obelisk and if its vertical edges extend they would converge at a height of 1 km (3,281 ft).

With a unique elegance, this building hosts the headquarters of Iberdola Company. The tower integrates nicely into the urban fabric of Bilbao's business district known as Ensanche, representing 21st century Bilbao with its fascinating polyhedral reflections. The 40-story building rises 165 m (541 ft), it has five floors underground and a heliport.



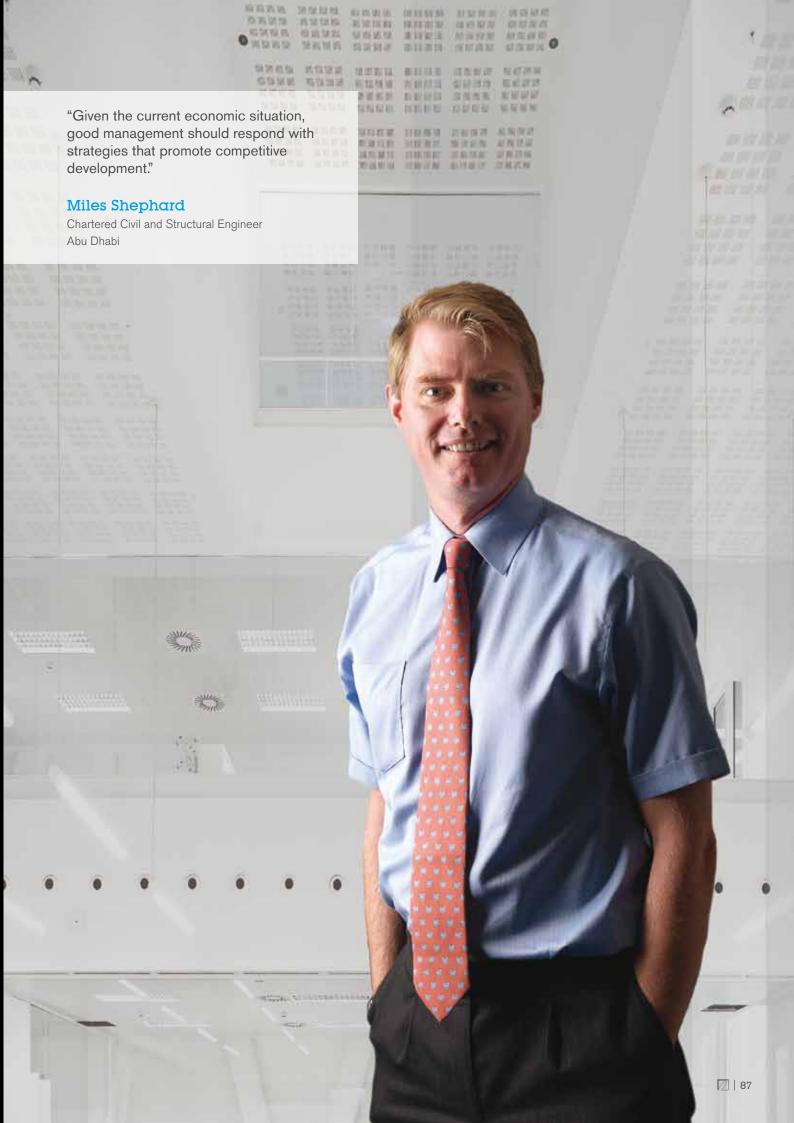
It is the only building in Spain, and one of few towers in the world, that received LEED Platinum Certification, meaning it recognizes friendly practices towards the environment. This process covers the life cycle of the building, from its location (retrieved industrial use) to the architectural design, the use of local and recycled materials, as well as its low energy consumption performance.

The conceptual design is by César Pelli, an expert in skyscrapers. Idom performed the engineering process of structures and installations, as well as specific studies on energy performance, wind, sound and unique structures.



#### SUPPORTING DEVELOPMENT AND COMPETITIVENESS





#### Supporting Development and Competitiveness







## Dominican Republic

The country's future depends on the competitive improvement of its productive sectors





## DEVELOPING PROGRESS IN ONE OF THE MAIN CARIBBEAN ISLANDS

The European Commission is funding an ambitious development project which will run until spring 2013.

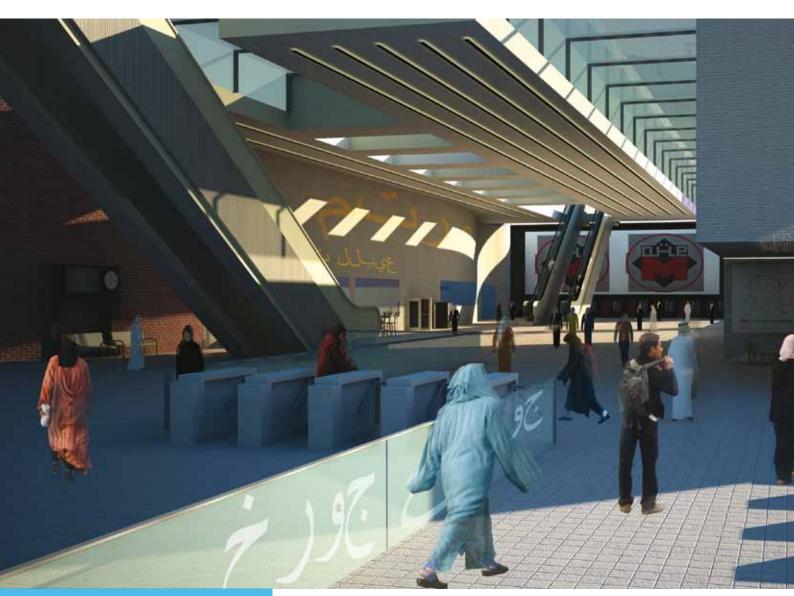
The island of Hispaniola, in which the Dominican Republic is located, was discovered by Christopher Columbus in 1492. Currently, the Dominican Republic is the second most important country in the Caribbean, after Cuba, considering its population (10 million), gross domestic product and geographic size.

As the most popular tourist destination in the Caribbean and with its advantageous geostrategic location, the Dominican Republic faces a wide horizon of opportunities for economic development and social equality. Specifically to boost development of the main productive sectors of the country, a National Plan for Systemic Competitiveness has been created, which is directed by the National Competitiveness Council, an institution with ministerial rank.

Idom assists the Council with implementing the program, its institutional coordination and developing its technical profile. The assignment involves technical assistance for the design of sectoral strategic plans that will determine the country's economic future and technical assistance to improve the institutional capacity of several government agencies of the country. The project, funded by the European Commission, began in June 2010 and is expected to be completed in May 2013.



- 1. Dominican island from San Andrés, tourist destination
- 2. Textile industry
- 3. Banana industry





The Cairo Metro carries more than 3 million people per day



#### CAIRO METRO

#### Interoperable System with Touchless Ticketing

Cairo Metro, a public enterprise of Egypt's Ministry of Transport, is undergoing an ambitious process of expansion, renovation and modernization of its entire network of operations. It will soon join the new and modern Line 3, which links Cairo Airport with the city's Western district.

With a population of approximately 17 million people, Cairo is one of the most densely populated cities in Africa. The Cairo Metro, in operation since 1990, currently transports more than 3 million passengers per day.

To manage such a high passenger flow in the most efficient way, Cairo Metro is enhancing its ticketing system based on the state-of-the-art touchless smart card technology. Cairo Metro has put Idom in charge of implementing the new system on existing Lines 1 and 2 and ensuring the interoperability of the system with the future Line 3, along with the Egyptian National Railways and other transportation modes under the latest international standards for interoperability.

Renovating the ticketing area with touchless charging technology. Graphics by: Jesús Bermejo







#### INTERNATIONAL LOGISTICS

Manzanillo is the largest international trade center in the central and low-lying areas of Mexico.

With cargo traffic of 22.3 million tons in 2009, the port of Manzanillo is a key node for the logistics of companies importing and exporting in Mexico. Its location makes it one of the main entry points for goods coming from Asia, as the efficiency and reliability of logistics chains are critical factors for the competitiveness of Manzanillo as a commercial port.

Idom is assisting the Manzanillo Port Administration in the implementation of a management model based on the quality control, with a service guarantee program that focuses on the end user to make the location a real "lean" port.



<sup>1.</sup> The port area occupies 437 hectares.

2. Existing docks: 19.

#### SEVILLE, CLOSER TO THE ATLANTIC

The new lock for the Guadalquivir River is the largest in Spain and unique in the world in terms of its type of construction.

The Port of Seville is an inland seaport located on the Guadalquivir River, a channel that connects the Sevillian capital to the Atlantic over 52 nautical miles (nearly 100 km -62 miles- to the south).

Currently, the Port moves 5 million tons of goods annually, supporting the activity of 1,600 companies and the employment of 12,000 people. With the construction of the new lock and the advantage of Guadalquivir's natural benefits, Seville will become a major center of logistics in the region. In addition, the new lock protects against flooding, allows the increment of the transportation of goods up to 12 tons and the creation of 15,000 new jobs over the next decade. Finally, it will reduce 150,000 trips by road, saving 14 million liters (4.3 million gallons) of fuel annually and reducing NOx and CO2 emissions by 350 t (392 tn) and 250 t (280 tn) per year respectively.

Since the start of the construction in 2005, Idom provided its services to the Seville Port Authority in the design and implementation stages. Its completion is set for spring 2011.

22,400

Tons of deadweight (dwt) is the maximum weight a ship can accommodate.



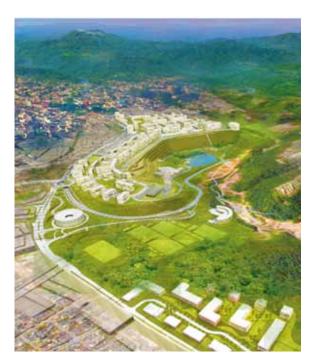
1.The new infrastructure, with 434 meters (1424 ft) long by 35 meters (115 ft) wide, allows the entrance of boats up to 292 meters (958 ft) long.

2 and 3. Three moveable bridges were built to allow traffic crossing over the lock (two roads and one rail)









#### "LA PEDRERA" MASTER PLAN

#### Urban and landscape regeneration of an old quarry

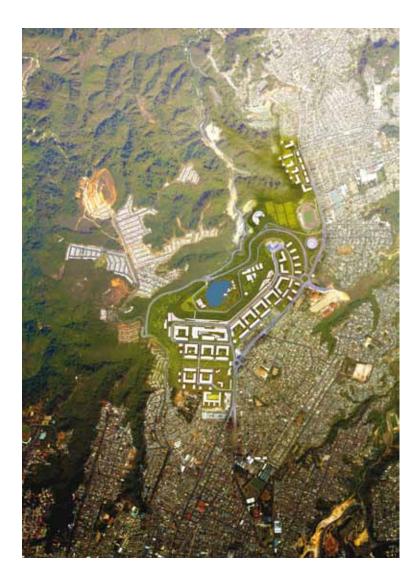
For over 100 years, "La Pedrera" area was the gravel pit and production site for cement rights, north of Guatemala City. Until recently, it was one of the largest undeveloped areas, 148 hectares (366 acres) within the urban fabric waiting for a transformation.

Idom was charged with carrying out the Master Plan for "Cementos Progreso", creating a new central area with buildings over 1.1 million m² (11.8 million sq ft). The construction of more than 4,000 housing units in a "live, work and play" environment included a business center with a shopping mall, a convention center, a clinic, a hotel, a football stadium, a City of Knowledge, a Mayan culture museum and a multimodal interchange hub. An extensive network of green spaces complemented the community facilities.





Idom has carried out the complete cycle of a project: market research, product definition and urban master plan



The variety of uses and building types has led to a highly attractive urban area representing a change in Guatemala's urban development towards a more human and sustainable model. The design considered ways to minimize environmental impacts and carbon footprint. Natural resource management was optimized through efficient infrastructure and landscaping, including intelligent management systems, renewable energies and a bioclimatic design approach. Furthermore, a sustainable and innovative mobility model was conceived for the region, which is based on pedestrian mobility, bicycles and public transportation. By these means, a city of short distances is created with attractive public space and efficient public transportation (Metrobus).

The development center is located within a large metropolitan park, and is both visible and accessible from the main avenue.

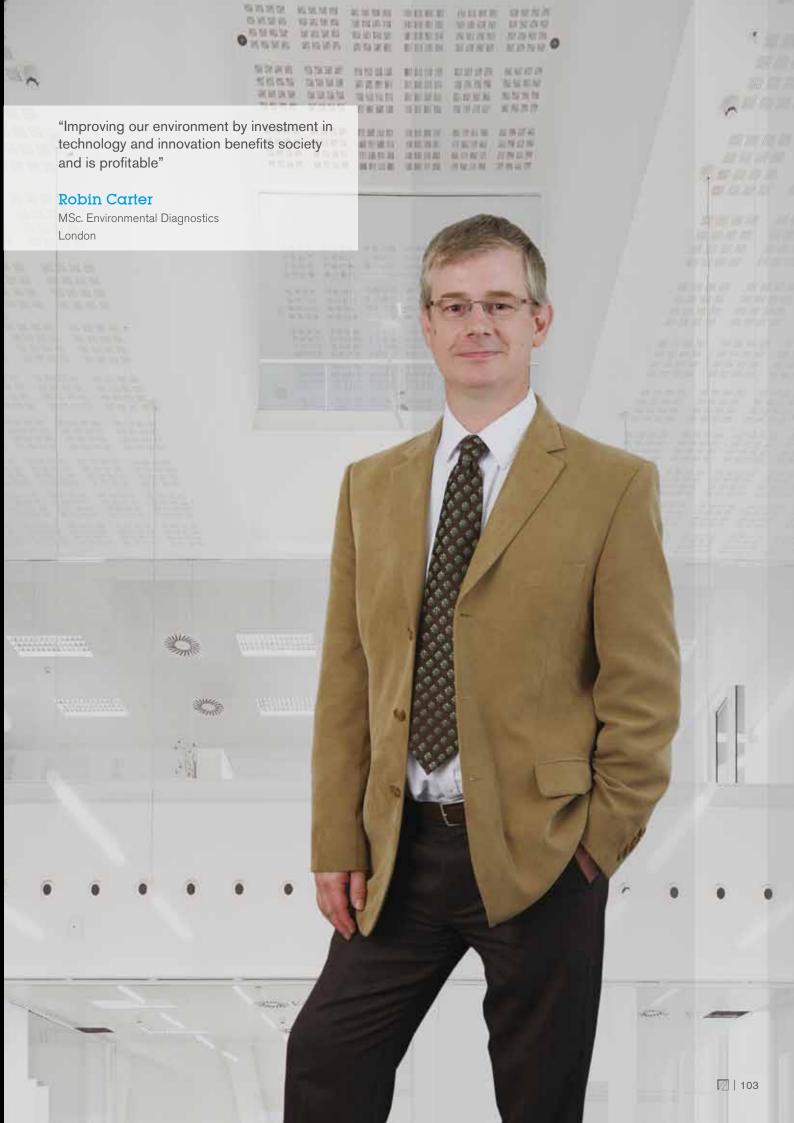


Guatemala

#### IMPROVING THE ENVIRONMENT



# IMPROVING THE ENVIRONMENT



#### Improving the Environment



Belgium
Cape Verde
Colombia
Finland
Georgia
Guatemala
Indonesia
Latvia
Mauritius
Oman
Romania
Russia

Trinidad and Tobago Tunisia United Arab Emirates United Kingdom Vietnam



#### SOLID WASTE MANAGEMENT

New infrastructures are being developed with funding from the European Union to implement European standards.

In 2011, one million Turkish citizens from the provinces of Amasya, Bitlis and Kütahya, will have an urban solid waste management service in line with European legislation. The project will manage 7.5 million tonnes (8.4 million tons) of waste over the next 20 years. The projects involve the construction of three regional landfill sites, the closure of twenty-two uncontrolled landfill sites, the construction of five waste transfer plants, nine Green Dots, three medical waste treatment systems and two pilot composting plants.

EU Pre-Accession Funds (IPA) provided Seventy-five percent of the project financing; they were used to mobilize more than 40 specialized technicians and construction site supervisors. Idom is contributing its Technical Assistance to oversee the design and construction of the infrastructure. In addition, Idom is assisting in the establishment and training of entities created for the management and operation of the project.





- Amasya Region
  1. One of the new landfills
  2. The region, view from the North
  3. New recycling bin system





IDOM I 2010 - 2011 CLIENT I Acciona

## SOLAR THERMAL POWER PLANTS

The Majadas de Tietar Plant will prevent the emission of 100,000 tonnes (112,000 tons) of CO<sub>2</sub> into the atmosphere annually.

Idom's technological development and the use of advanced project management tools have helped achieve a leadership position in the implementation and commissioning of the thermal power plant's power units. Highly skilled multidisciplinary teams will cover all phases of the project, including engineering, procurement, construction, installation and commissioning.



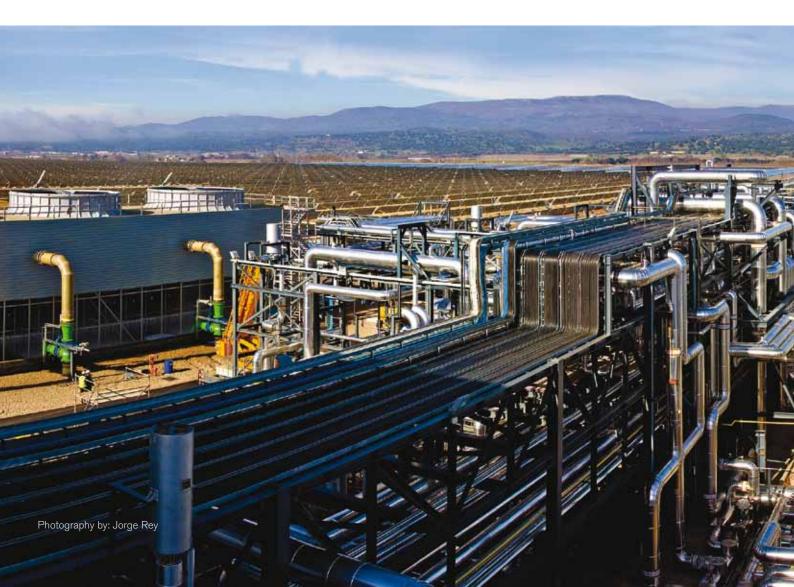
**SERVICES** I Turnkey Services Improving the Environment

## 30,000 houses have their energy needs served for every 50 MW plant



IDOM I 2010 - 2011 CLIENT I Acciona

The power unit of a solar thermal power plant consists of a steam turbine, HTF (oil) heat exchangers, HTF pumps, expansion tanks, auxiliary HTF gas heaters, a cooling tower, water treatment plant, control systems, civil works, mechanical and electrical assembly and corresponding instrumentation.

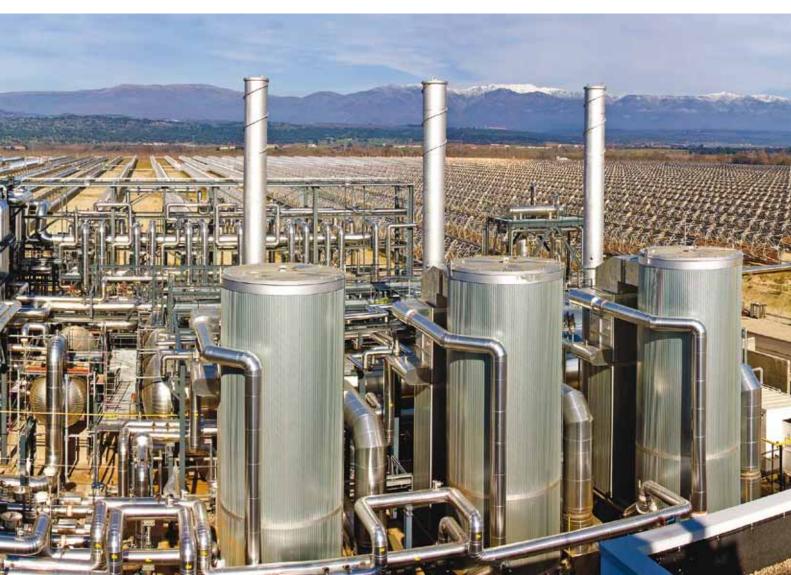


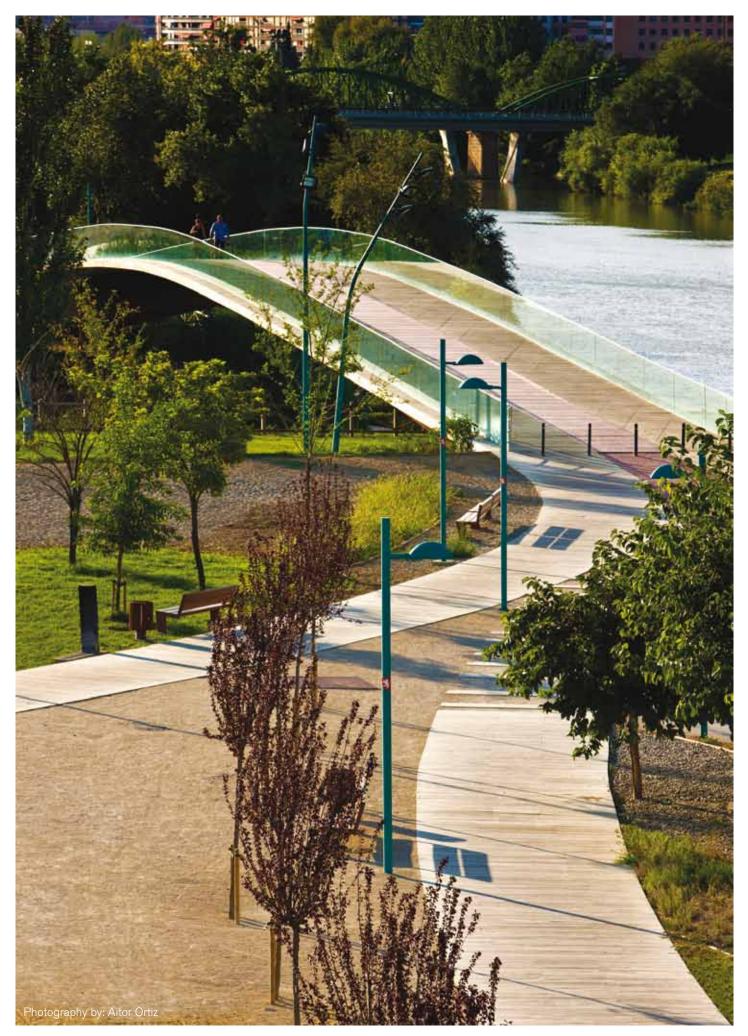
SERVICES I Turnkey Services Improving the Environment



Idom is supplying turnkey services to several solar thermal power plants in Spain, all of which are 50 MW: Majadas de Tiétar (Cáceres) for Acciona Energía, Morón de la Frontera (Seville) for Ibereólica Solar Morón, Palma del Río (Córdoba) for Guzmán Energía, and Olivenza (Badajoz) for Ibereólica Solar Olivenza.

The technology used is parabolic trough cylinders, which is also used in other hybrid plants (solar and combined cycle gas) where Idom is performing the engineering: Ain Beni Mathar (Morocco) 450 MW and Hassi R'Mel (Algeria) 150 MW, both for Abener.





## SUSTAINABLE URBAN DEVELOPMENT

Idom is participating in over 100 urban sustainability projects which include sectoral studies of energy, transportation and housing.

Cities have become key players in the new global energy paradigm, having a decisive role in consumption and power generation. Idom is collaborating with the public and private sector by using its experience to help shape national and regional policies.

For this reason, in 2010 Idom was invited to attend various events at the Expo in Shanghai as an expert in sustainability, participating in workshops on renewable energy generation, consumption and energy management in cities and the problems associated with urban transportation and energy efficiency.

Park Tenerías Las Fuentes, shown in the pictures, is located in the riverbanks of the Ebro, in Zaragoza. This is the city where Idom has carried out numerous urban sustainability projects, including among others, mobility studies, hydrogen-powered public transportation, recovery of banks and energy consumption.





# PUBLIC TRANSPORTATION ON A RESERVED PLATFORM

Idom is building the first electric vehicles line in Castellón, Spain

In the city of Castellón, the Generalitat Valenciana is promoting a new transportation system that combines the capacity, accessibility and regularity of a tram with the flexibility and adaptability of a bus system.

The system is based on electric vehicles that can operate by alternating between an electrical train system with an overhead mechanism and batteries, depending of the section in the urban outline. In addition, Castellón opted for the use of an optical guidance system, which operates through a camera installed in the vehicles, capable or interpreting the road markings to guide its movement and achieve more efficient access to stops.







- $1. \ Section \ of \ the \ reserved \ platform$
- 2. TVR stop
- 3. Picture of the Riu Sec bridge

SERVICES I Construction Design



To function properly, it was necessary to design a reserved platform that can also be used for discretionary transport and emergency vehicles such as police cars, ambulance and fire engines, etc., which will eliminate traffic congestion problems.

Idom's assignment was to design Castellón's first line — the only one in Spain — which is 8 km (4.3 miles) in length and includes several urban regeneration pojects and a unique bridge on the Riu Sec — another Idom project.

The planning phase of the system's second line has also started, which will connect Castellón to Almassora, Vila-real and Burriana.

IDOM I 2010 - 2011 CLIENT I Bellway Homes

## URBAN AND ENVIRONMENTAL REGENERATION

One of our most interesting housing projects in the UK is Haddo Estate, which originally comprised 1960s blocks of flats that were built over two large filled gas holders. Idom-Merebrook investigated the site for the developer Bellway Homes Ltd to map the historic structures in the ground and detect areas of contamination. We designed and validated a remediation scheme to deal with the in-ground hazards and manage environmental risks.

Another noteworthy regeneration project is the site of the former gasworks in Stepney, in the London Borough of Tower Hamlets. This development was also undertaken by Bellway Homes Ltd. Where there was once only contaminated industrial land, there is now a social housing development. Idom-Merebrook designed a remedial scheme including novel techniques to tackle pollution and geotechnical problems, to prepare the site for development. Elements of the former gasworks structures were incorporated into the development design.

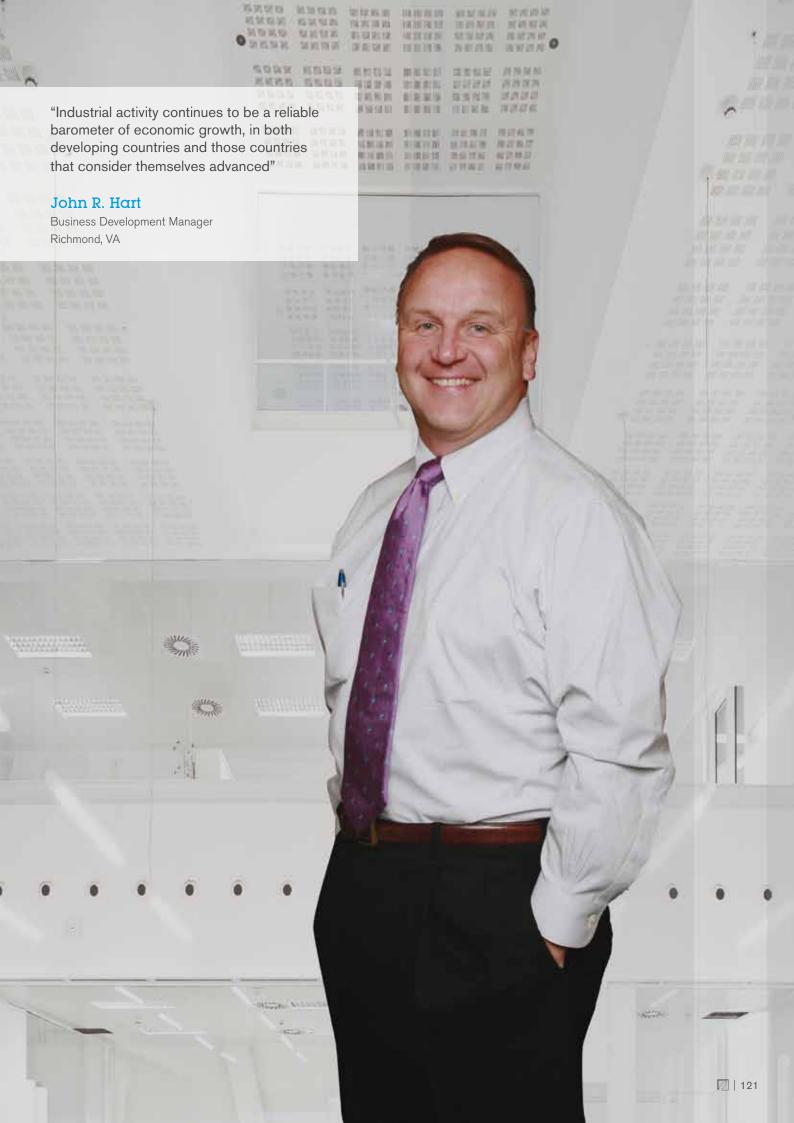




- 1. Old gasworks in Stepney, East London 2. New Haddo Estate, in Greenwich
- Recovering brownsfield sites

## PROPELLING INDUSTRIAL ACTIVITY AND ENERGY





## Propelling Industrial Activity and Energy



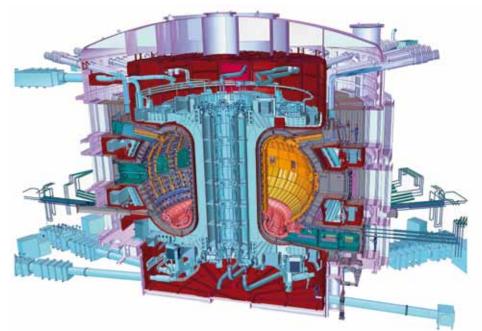




### PARTICIPATION IN THE ITER PROJECT

The ITER (International Thermonuclear Experimental Reactor) aims to demonstrate that nuclear fusion may be the energy source for the future.

The new experimental energy power plant will be located in Cadarache, France, 60 km (37.3 miles) from Marseille Airport. The relevance of the project, its technology, strategic value and role expected to play in future energy generation, makes this new contract not only an exciting challenge, but also a milestone for the global positioning of Idom within the nuclear sector.



Section of the Tokamak reactor core. The plasma inside the core will be able to reach 150 million degrees Celsius.

Idom is carrying out design work for Tokamak components such as the Vacuum Vessel and connection of the reactor to the rest of the structure.

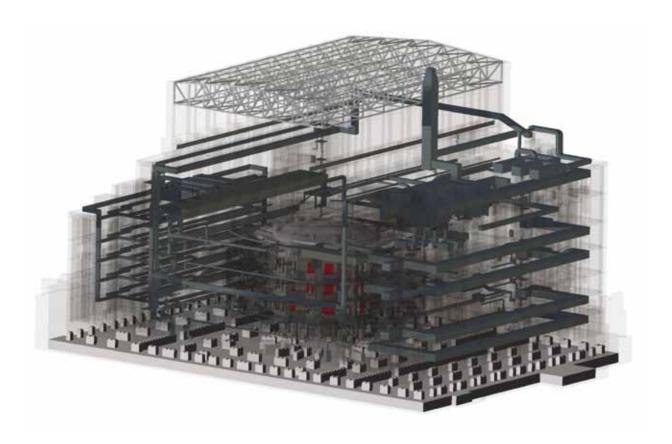


Idom participates with Halcrow and Altran, providing engineering and construction consulting services to Fusion For Energy, an organization that manages funds allocated by the European Union to the ITER project.

The contract implies that services will be provided during the next six years and can be expandable to a total of eleven years. All activities and services will be undertaken at the site of Cadarache.

- 1. Recreation of the installations. Courtesy of ITER.
- 2. Detail of the Tokamak Complex, where Idom is performing dynamic analysis and optimization projects

2



IDOM I 2010 - 2011 CLIENT I Iberinco

# A COMBINED CYCLE POWER PLANT IN THE URAL MOUNTAINS

In the Russian Federation, many people use District Heating systems as a way to increase energy efficiency

Since the Stalin era, some Russian city centers have power stations which, apart from providing electricity, supply thermal energy to the population in the form of hot water (district heating). One of these city centers is Ekaterinburg, on the Asian side of the Ural Mountains, which has a complex on the site of Sredneuralsk, 30 km (18.6 miles) north of the city. The complex is known as SUGRES, which is an acronym for the terms "Sredneuralsk" and "GRES" ("GRES" stands for "power plant" in Russian).



<sup>1.</sup> Overview of the power plant in December 20102. Construction phase in summer 2010

Through a hot water distribution network, SUGRES supplies heating to approximately 40% of the population of Ekaterinburg and 100% of the population north of the city. The SUGRES complex, which carries a total capacity of 1,100 MW and is capable of producing steam at 1,740 t/h, consists of three groups and a total of 11 turbines. The first group has been in operation since 1936 and will be replaced by a fourth group, a 403 MW combined cycle and a 200 Gcal/h thermal power generation.

In late 2007, Idom started engineering work for the construction of this fourth group. Both the design and construction phases overcame challenges such as carrying out the development and adaptation of the project according to Russian legislation and regulations. Furthermore, it was difficult to deal with the extreme temperatures, which reached  $40^{\circ}\text{C}$  below zero (-104  $^{\circ}$  F) and icy ground to a 2.5 m depth, as well as transportation and legal obstacles for the importation of foreign material. As a result of these efforts, the group will be operational in early 2011, as scheduled. Participation in this project yields Idom an important engineering reference within the energy sector of the Russian Federation, which is in a phase of strong growth.









## Peru

Talara (Piura Department) is located in northerr Peru, along the shores of the Pacific Ocean.

#### TALARA REFINERY

The Talara consortium among Inelectra, Idom and Nippon Koei, won the competition against major international companies in the sector.

Land of desert plateaus and dense carob forests, Talara is home to oilfields that the ancient Peruvians would call "copé", a kind of tar highly valued by the Spanish conquerors.

Foreign companies started exploiting Talara's oil in the late nineteenth century. The first oil refinery opened at the beginning of the twentieth century and in the 1960s, Talara was able to produce over 90% of Peru's oil. Today, the city is home to a refinery and several storage facilities. With oil currently competing with gas, the refinery owner of the state company, Petroperú, has decided to undertake a series of investments to increase profitability of its assets.

To that effect, it has bid on a project for expansion and modernization of the refinery in order to produce diesel 2 and gas with a maximum sulfur content of 50 ppm, process heavy crude oil and reduce waste production.

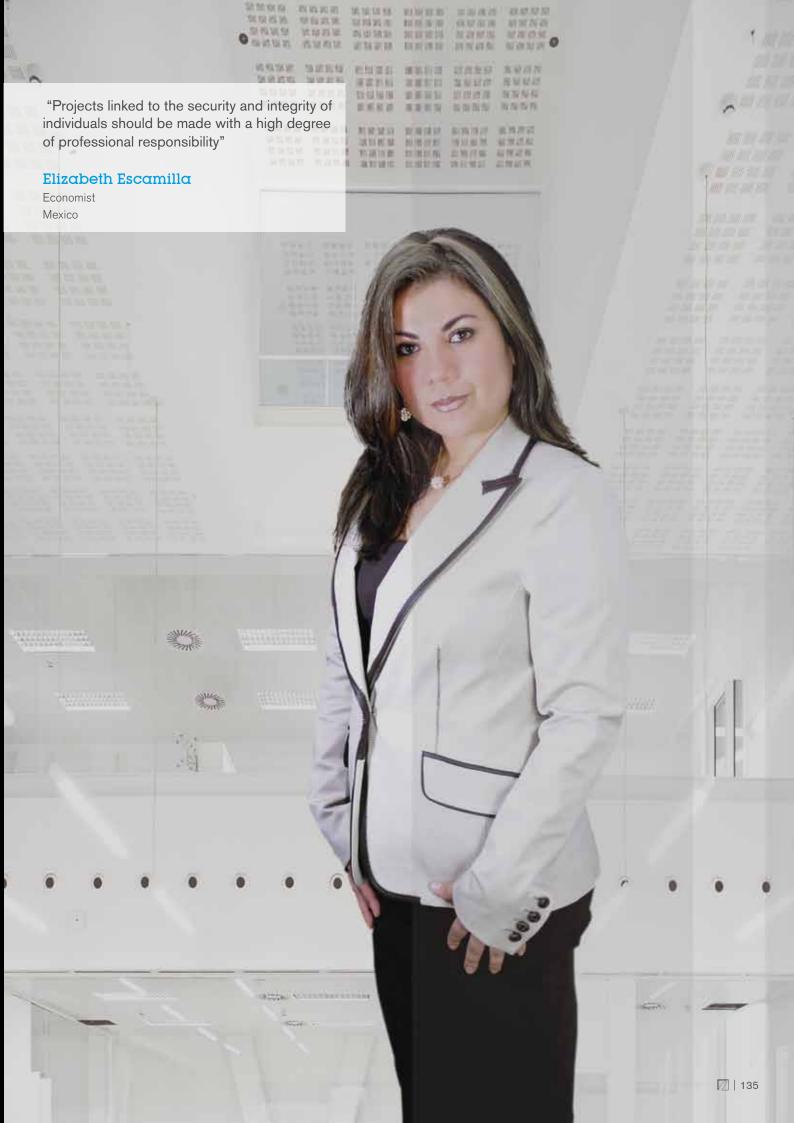
In addition to generating new jobs, this project will allow the refinery to offer higher quality products at a lower price and process cheaper heavy crude oil. This ensures that Peru decreases imports of diesel 2 and eliminates imports of high-octane components for gas formulation.



## PROTECTION AND SECURITY



# PROTECTION AND SECURITY



## Protection and Security



Armenia
Australia
Belize
Cambodia
Ivory Coast
Slovakia
Greece
Iraq
Luxembourg
Macedonia
Malaysia
Morocco
Mexico
Qatar

Costa Rica Switzerland



# EMERGENCY MANAGEMENT CENTER 112 of Reus. A new functional typology

The Emergency Management Center 112 of Reus is a new type of operational building distinguished for accommodating all operational corps and organizations involved in emergency management in Catalonia.

Being an administrative and operational environment at the same time, the building is fully functional 24 hours a day, 365 days a year and must provide the adequate technological support to address and manage all emergency calls.

The confluence of all operational corps and organizations sharing one space, technology and processes, allows them to provide an integrated, efficient and coordinated response to emergency requests. All citizens in Catalonia will access these services by dialing 112 - the single emergency telephone number.









The building is a standout in the Camp de Tarragona's landscape and visually, one unmistakable reference.





The functional organization of the building ensures the differentiation of safety levels and the flow of people.

#### SECURITY AND EFFICIENCY

The building's high-energy efficiency leads to the conservation of 50% in water consumption and 34% in energy consumption compared to a conventional building.

The building has the highest safety measures in place to protect its operating capacity at all times. The design of the main functional systems - electricity, air air conditioning, and telecommunications - allows the main structure to function autonomously for up to 5 days in the case of loosing external resources. Electric generators powered by fuel tanks and potable water supply through reservoirs achieve the independence. The set of sustainable measures supported achievement of the silver LEED certification.

IDOM I 2010-2011 CLIENT I DEFEX

# Egypt

Preserving the history from the passage of time and acts of vandalism



#### IMPROVEMENT OF ARCHAEOLOGICAL SITES

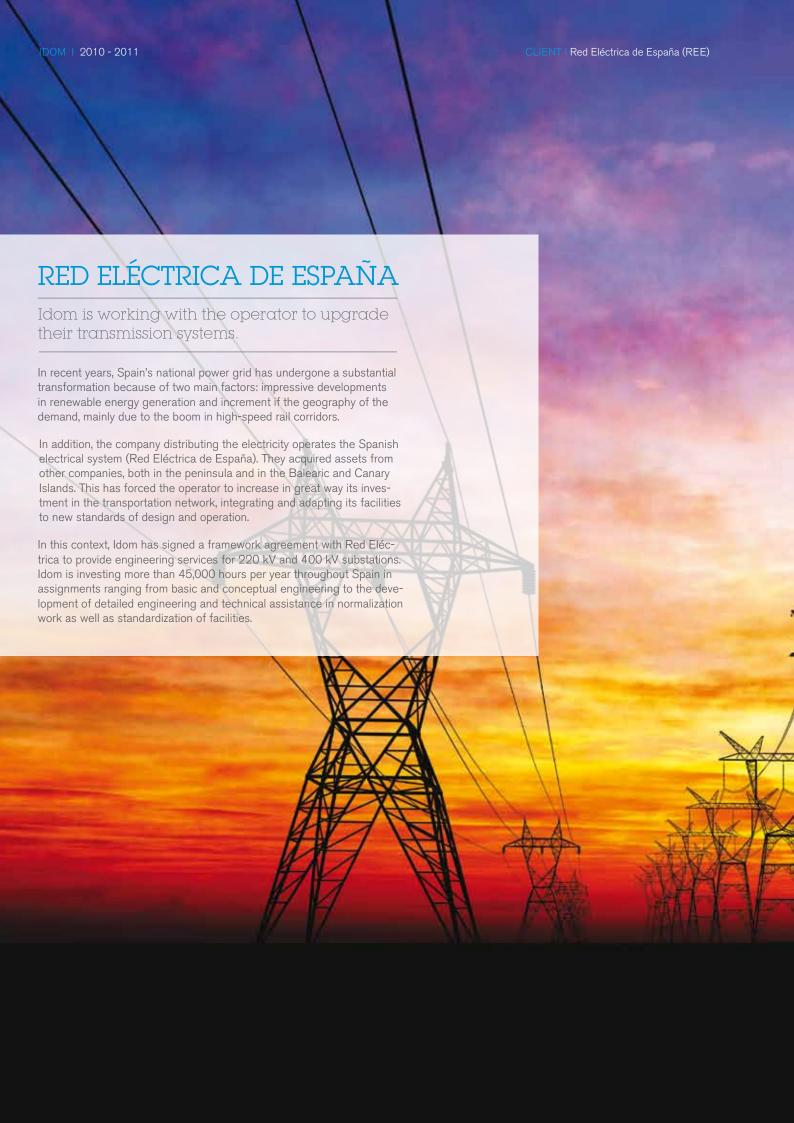
The Egyptian Ministry of Culture is developing an ambitious program to improve archaeological sites in order to increase the number of visitors without affecting the heritage conservation. Defex, a Spanish public sector company, is leading the part of the project related to improving security in order to prevent terrorist attacks, vandalism and theft activities, as well as monumental and pedestrian artistic lighting, particularly for future night tours.

The project also includes the integrated management of sites, ticketing systems, control of visitors and workers, and the monitoring of temperature, humidity and  $CO_{\circ}$  inside the tombs.

The scope of the works includes the archaeological sites of Gizah, West Bank (Valley of the Kings, Pharaohs tombs, Hatshepsut, Ramesseum, Medinah Habou and Carter House), the Temple of Luxor and the Avenue of the Sphinxes. Within this project, Idom is actively collaborating with Defex on project development and technical assistance to inputs and installation.









# 45,000 hours/year

of engineering are invested in the upgrading of facilities for the new grid of power transmission.

## ABOUT IDOM



## About Idom

Idom is structured around three functional areas that coordinate with each other to provide the best customer service, professional development and an optimal management of knowledge; these three cores include technical, geographic and support areas.

Idom is organized in an open and flexible approach to place initiative before control, its embodied values before written rules, leadership before mere management, and humble training process before proud practice.





# Idom worldwide

The process of internationalization is Idom's strategic commitment and it is supported by the firm's strong position in the Spanish market. The map shows all the countries in which Idom has performed projects and studies for local and international clients.





## |Some important figures

Idom's financial structure is solid and solvent, as corresponds to a business enterprise aiming to establish long-term personal relationships.

300

million euros of revenue

100

contracted services supplied

2,500

people

1,100

repeat clients

2.7

million euros of training

9

million euros of innovation

70

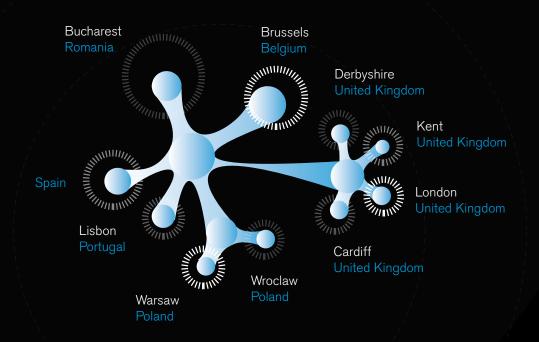
million euros invested into building new offices

<u>35%</u>

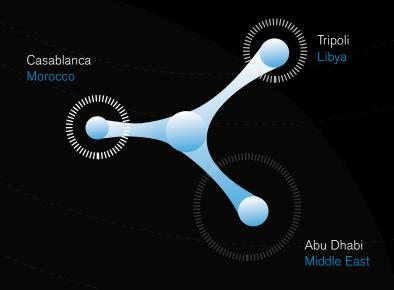
international activity

500

new clients







### | Worldwide Offices

#### MENA (Middle East and North Africa)

Abu Dhabi (U.A.E.) Delma St. 13, Crossing 32, Al Bateen Tel: +971 50 824 56 13

Tripoli (LIBYA) Aneba St., Siyahiya City, in front of Soqu Al -Gboub Tel: +971 50 824 56 13

20000 Casablanca (MOROCCO) 62 angle Boulevard d'Anfa Bd. Moulay Youssef Forum Abdelaziz 10° appt. 104 Tel.: +212 5 22 29 37 71 Fax: +212 5 22 29 37 79

#### BRAZIL

01454-000 São Paulo Avenida Cidade Jardim 400, 20° andar Edifício DACON Tel: +55 11 3818 8996 Fax: +55 11 3818 8996

#### **BELGIUM**

1040 Bruselas Rue de Treves, 49 Tlf. +32 2 230 59 50 Fax. +32 2 230 70 35

#### **MEXICO**

#### 06500 México D.F.

Paseo de la Reforma 404 - Piso 5 Colonia Juárez, Delegación Cuauhtémoc Tel.: +5255 5208 4649 Fax: +5255 5208 4358

#### **POLAND**

01-192 Warszawa ul. Leszno 14 Tel: +48 22 535 65 80 Fax: +48 22 535 65 81

54-424 Wroclaw Ul. Muchoborska 6 Tel: +48 71 785 45 97 Fax: +48 71 785 45 97

#### **PORTUGAL**

1600-100 Lisbon Rua Gral. Firmino Miguel, 3 B Tel: +351 21 754 87 00 Fax: +351 21 754 87 99

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011783 Bucharest Str. Brazilia, 16 - Ap. 1, Sector 1 Tel: +4021 231 07 01 Fax: +4021 231 13 34

#### **UNITED KINGDOM**

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#### UNITED KINGDOM / MEREBROOK

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