

# ACCIONA INFRASTRUCTURE

With 7.341 billion euros of projects in the pipeline, ACCIONA Infrastructure is at the forefront of technological innovation. And the Company now obtains 22% of its revenues internationally.

**ACCIONA has participated in the leading infrastructure projects in recent times**

ACCIONA Infrastructure was created in 1850. Over the years it has gained prestige to become **one of the leading companies in the sector in Spain**. It has used cutting-edge innovative construction techniques to build the country's infrastructure through countless road, bridge, viaduct, railway and underground projects. The company is also involved in the construction of water works (dams, sewage and water treatment plants, desalination plants, canals, sewers, etc.) and maritime, underground and industrial projects. ACCIONA Infrastructure role goes beyond mere execution of these projects; in many cases, the company is involved in everything from engineering to management and maintenance, as in the case of highways.

**From a global standpoint**, the company has a solid foothold in strategic markets and has developed

and/or played a role in some of the most important Infrastructure projects of the last 50 years. The most recent projects include **the Petronas Twin Towers in Malaysia, Ting Kau Bridge in China and the Central Coastal Road Network in Chile**.

ACCIONA Infrastructure focuses on **two areas of activity: civil engineering and buildings**. It also has specialised units such as metal structure workshops, machinery servicing, an infrastructure maintenance area, and installation and engineering divisions. The company has also developed a network of specialised ancillary companies with a view to maximising efficiency in all of its activities.

ACCIONA Infrastructure has been a **pioneer in the public-private co-financing of infrastructures**, building highways, tunnels and railways under concession agreements. In

1980, it obtained its first hospital concession contract. It operates in all areas of construction, ranging from engineering to project execution. All of its actions take account of economic, environmental and social aspects, having regard to overall sustainability.

ACCIONA also plays the role of manager in many of the projects it undertakes. In Spain, many transport infrastructure (highways, toll roads and railway lines) and social infrastructure (hospitals and schools) projects are managed as concessions and ACCIONA Infrastructure is a leading operator in this field.

ACCIONA Infrastructure' innovative efforts have placed the company **at the vanguard of R&D and Innovation in the construction sector**. It is a leader in implementing the most advanced execution techniques, applying the latest technology. ACCIONA Infrastructure

**22% of revenues are of international origin**

REVENUES  
**3.6**  
BILLION EUROS

CONTRACTS IN SPAIN  
**+25 BN**  
EUROS  
(63% CIVIL ENGINEERING,  
37% BUILDINGS)

BACKLOG  
**7.3**  
BILLION EUROS

works in tandem with prestigious research institutes and universities in Europe and worldwide on initiatives to research and develop new, complex and innovative construction techniques. The Company plays an active role in research projects on managing construction materials and information and shortening construction times.

All of ACCIONA Infrastructure actions take account of economic, environmental and social aspects, with **global criteria for sustainability** and seeking constantly to improve construction processes and apply measures to protect the environment.

As evidence of its commitment to sustainable construction, ACCIONA Infrastructure aims to involve the sector as a whole. To this end, it holds several competitions each year with a view to identifying best practices.

**ACCIONA grants three awards** on the advice of an evaluation committee comprised of renowned external professionals: Best Safety Management, Best Quality and Environmental Management On Site, and Best Project Management.

## **ACCIONA Infrastructure has been a pioneer in the public-private co-financing of infrastructure**

### **Awards in Spain**

**In 2008, ACCIONA Infrastructure received many awards in recognition of its work:**

- **Award from the Galicia Civil Engineering Foundation for the M-30 southern bypass.**
- **Award for Health and Safety by Galicia Ports Authority for user facilities at Rianxo port. This award recognises the work of companies that participate in ports**

**projects in Galicia, in addition to their attitude and performance as regards workplace health and safety.**

- **PREVER Award for Workplace Safety, which recognises ACCIONA's commitment and efforts towards incorporating workplace safety into all of its actions, specifically the Adriatic LNG Terminal project (a concrete platform for an LNG regasification terminal),**

**built by ACCIONA Infrastructure in Algeciras. This project employed excellent workplace health and safety practices, enabling the successful execution of the project and ensuring that none of the 800 people involved in the project in the last three years suffered any type of workplace-related accident. The company's actions warranted a second award: the Aker Solutions Award for Workplace Health and Safety.**

# CONTRACTS

IN SPAIN

## IN 2008

### • Railway works:

- Rail bed. Madrid – Zaragoza-Barcelona-France high-speed railway line. Section: La Sagrera-Trinidad junction. (Barcelona).
- Extension of the FGC line in Sabadell. (Barcelona).
- Atlantic high-speed railway line. Section: Vilagarcía de Arousa-Catoira. (Pontevedra).
- Northern corridor-Northwest high-speed line. Madrid-Galicia. Section: Zamora-Lubian, Subsection: Otero de Bodas-Cernadilla. (Zamora).

- Extension of Madrid Metro line 2 to Las Rosas. (Madrid).
- Rail bed for the new high-speed line to the east coast: Madrid-Castilla La Mancha-Valencia-Murcia. Section: Crevillente-San Isidro. (Alicante).
- Bobadilla-Algeciras. Section: Cortes de la Frontera-San Pablo de Buceite. Track upkeep. (Málaga-Cádiz).

### • Highway works:

- A-33 highway, between Cieza and La Font de la Figuera. Section: A-31 to A-35. (Valencia).
- A-27 highway between Tarragona and Montblanc. Section: Valls-Montblanc bypass. (Tarragona).
- Access highway to A Coruña and connection to Alvedro Airport. Section: As Lonzas-A Zapateira. (Coruña).
- A-11 Duero highway. Section: Aranda-Burgos bypass.
- New Icod de los Vinos-Santiago del Teide highway. Section: Icod-El Tanque. (Tenerife).
- New access to Roquetas de Mar and Vicar. Section: Roquetas de Mar-Almería bypass.
- Comprehensive resurfacing and maintenance of the highway network in Guadalajara province. (Guadalajara).
- Sarria-Monforte corridor. Section: A Aspera-Monforte. (Lugo).

### • Ports and maritime works:

- Refurbishment of pier 2 at Rota naval base. (Cádiz).
- Extension of outer harbour at Port of Ferrol, phase 2. (La Coruña).

### • Water works:

- Water supply to the towns adjacent to the Entrepeñas and Buendía reservoirs. (Guadalajara and Cuenca).
- San Salvador Reservoir in the municipal districts of Albalate de Cinca, Vinaced and Bellver de Cinca (Huesca).

### • Industrial buildings:

- Unit 6 (424.4 MW) and Unit 7 (427.7 MW) CCGTs at the Compostilla II power plant, Cubillos del Sil. (León).
- Solar thermoelectric power plant (50 MWe) in Palma del Río. (Córdoba).
- Expansion of the Cartagena plant. 5th LNG storage tank (FB-251). Cartagena. (Murcia).
- Earth movement, site development, building and electric and mechanical installations in the first phase of industrial development in the Lumbier municipality. (Navarre).

### • Non-residential buildings:

- Agricultural bulk solids terminal in Santander Port. (Cantabria).
- Architecture, installations, lifts, earth movement, foundations and structure of the Cornellà de Llobregat Shopping

- Centre. (Barcelona).
- Container terminal at Isla Verde Exterior. Algeciras. (Cádiz).

### • Residential buildings:

- 187 government-sponsored homes with garage, store rooms and swimming pool on plot TR-10B of P.P.II-4 in Sanchinarro. (Madrid).
- 122 homes, 65 store rooms, 155 garages and 10 shops plus inner and outer site development in PAU-1, located in San Blas, Tartanell and Llano del Espartal. (Alicante).

### • Site development:

- Site development for El Recuenco Business Park in Calahorra. (La Rioja).
- Site development of SUZ 55-1 in Zaragoza.

### • Renovation:

- Development of interiors at the Safont Conference Centre (Toledo), corresponding to the 2nd operational phase, "Parking assembly and cultural equipment at the Conference Centre.
- Functional and architectural planning of the Tower A, at the Virgen de la Victoria University Clinic. (Málaga).

# PROJECTS

IN 2008

## CARRIED OUT

### • Railway works:

- Jerez Airport-Cádiz high-speed railway.
- Sant Joan Despi-Sant Boi Llobregat high-speed railway.
- Villargordo-Venta del Moro high-speed railway bed.
- Pajares Tunnel.
- Sotiello-Campomanes high-speed railway bed.
- Horcajada-Naharros high-speed railway bed.
- Vigo-Das Maceiras high-speed railway.
- Madrid-France high-speed railway line.
- Villaverde Medina-Villafranca de Duero high-speed railway.

### • Metropolitan rail:

- Murcia Tramway.
- Parla Tramway.
- Line 9 of Barcelona Metro.
- Besòs Tramway, Trambesòs.
- Tenerife Tramway.

### • Highway works:

- Access highway to A Coruña and connection to Alvedro Airport. Section: As Lonzas-A Zapateira. (A Coruña).
- Cantabrian highway (A-8). Section: Villalba-Touzaz and Mondoñedo-Lorenzana section. (Lugo).
- Mediterranean highway (A-7) and highway GR-14. Section: Guadalfeo-La Gorgoracha, and access to Motril Port, in the municipalities of Velez de Benaudalla, Motril and Salobreña. (Granada).
- A-30 highway: Murcia-Puerto la Cadena.
- Refurbishment of A-2 highway, Guadalajara.
- A-63 highway: Grado-Doriga and Doriga-Cornellana.

### • Urban roads:

- Lugo Eastern Bypass Section: N-640 junction to Ribadeo, and LU-530 junction to Fonsagrada. (Lugo).
- Paving of Teruel streets, Phase 3.

- Paving of Paseo del Óvalo in Teruel. (Aragón).
- Las Palmas de Gran Canaria bypass. Phase IV: Tamaraceite-Tenoya-Arucas Costa. Gran Canaria.

### • Airport works:

- Car park and provisional access to Málaga airport.
- Alicante airport terminal.
- León airport.
- TLP Building at Albacete Air Base.
- Santander airport.
- New pier terminal at Barcelona airport.

### • Maritime works:

- Extension of Ferrol Port outer harbour, Phase 2. (A Coruña).
- Southern dock at Barcelona Port, Section 3.
- Extension of breakwater at Tarragona port.
- Roda de Barà marina. (Tarragona).
- New container terminal on east pier of Santa Cruz de Tenerife port.

### • Water works:

- Discharge pipeline: A Malata-Cabo Prioriño sewage plant. Waste water treatment and discharge in Ferrol. (A Coruña).
- Seawater desalination plant in Torre Vieja.
- Sewage treatment plant in Arroyo Culebro.
- Refurbishment of the Castile Canal. Mularroya dam.

### • Hospital construction:

- Toledo General Hospital.
- Landete Health Centre. (Cuenca).
- Mieres Hospital (Asturias).
- Teruel Health Centre.

### • Industrial works:

- Alcázar de San Juan compression station.
- La Risca solar thermal plant. (Badajoz).
- Fiochi bulk terminal in Santander.
- Solar plant in Hondo Espartosa and Agreda.

### • Non-residential buildings:

- Final phase of construction and outfitting of Casa del Agua swimming pool, gym and thalassotherapy centre. (A Coruña).
- Ciudad de la Cultura de Galicia library in Santiago de Compostela. (A Coruña).
- Torre Vieja auditorium (Alicante).
- Palma de Mallorca Conference Centre.
- Seminary in Comillas (Cantabria).
- Aragón Pavilion and ACCIONA Pavilion at Expo Zaragoza.
- Tax Office in Gerona.
- Gerona funeral centre.
- Getafe technology centre (Madrid).
- Santiago Calatrava's obelisk for Caja Madrid in Plaza Castilla. (Madrid).

### • Residential buildings:

- 178 homes, 205 store rooms, 249 garages and 12 shops and inner and outer site development at the former tobacco factory in A Coruña.
- Homes in La Mariola neighbourhood, Lleida.
- Homes in Manresa.
- 253 homes in Fuente Lucha by Emsvals. (Madrid).
- Vistaparque homes in Ensanche de Vallecas. (Madrid).

### • Site development:

- Estrella del Mar Hotel. Real de Zaragoza complex. Marbella. (Málaga).
- Site development of the Vilanova de Arousa Business Park. (Pontevedra).
- General site development at Expo Zaragoza.

### • Restoration:

- Refurbishment of Archbishop's Palace, Zaragoza.
- Renovation of Bank of Spain building in Huesca.
- Refurbishment, Baronia Escriche Hotel. (Aragón).
- Renovation of Plaça Braus, Tarragona.
- Renovation of Crystal Pavilion (Madrid).

• **America, Asia & Europe** are the most dynamic geographical areas

• **Bids for the Panama Canal 3rd set of locks will be adjudicated in 2009. ACCIONA is being considered for this most prestigious of projects**

**INTERNATIONAL**

ACCIONA Infrastructure worked actively on international projects in 2008. Its foremost project was preparing a bid to build the "Third set of locks" for the Panama Canal. The contract, for one of the largest Infrastructures projects on the planet, will be awarded in 2009.

The company has been most active in the Americas, Asia and Europe.

**In Canada**, ACCIONA Infrastructure was chosen to design, build and finance the **Royal Jubilee Hospital** (British Columbia). The 35,000m<sup>2</sup> facility will have 500 beds, and it will be the first of its kind in North America. Other projects in Canada include **CHUM Hospital** in Montreal (Quebec), a 700-bed, 212,500m<sup>2</sup> facility, and the

**Headquarters of the Royal Canadian Mounted Police** (British Columbia). In 2008, the company also began building 42 km of the **Autoroute-30** (Montreal) between Vaudreuil-Dorion and Châteauguay.

**In Brazil**, ACCIONA Infrastructure began expanding and upgrading state highway BR-393 (200.4 km) in the state of Rio de Janeiro.

**In Mexico**, ACCIONA Infrastructure was selected by the government of the state of Campeche to **expand the Campeche XXI Convention Centre** (a 18,000m<sup>2</sup> prefabricated concrete structure) and the Ciudad del Carmen Convention Centre. The company completed various projects, most notably the Antara office building in downtown Mexico City and the

residential buildings, PlayaMar 3 Cantos 1 (Acapulco) and Cumbres de Santa Fe (Mexico City).

Also of special note is completion of the first phase of the New Campus at the San Luis Potosí Polytechnic University, comprised of 12 buildings on a 16-hectare site.

**International awards**

• **Samoter Award**, recognising contributions by foreign companies to the development and management of infrastructure, real estate, transport and urban services and renewable energies.

• **Gold Award**, given each year by The Canadian Council for Public-Private Partnerships, as part of the National Awards for Innovation and Excellence in PPP projects.

• **North America Deal of the Year**, an award for the financial operation of the year, administered by the prestigious specialist magazine, *Project Finance International* (PFI).

**In Chile**, ACCIONA Infrastructure delivered the **Ojos de Agua mini-hydro plant (60 MW generated from a 71.5m head)**; it will also build, finance and operate Route 160, comprising 90 kilometres of toll road in Concepción province. ACCIONA Infrastructure was also short-listed for the construction of hospitals in Maipú and La Florida.

**In Asia**, the company completed the **Lai Chi Kok Viaduct** in Hong Kong. The 1.4km elevated structure has four entry and exit ramps. The project

is unique due to its environmental focus, as it used recycled concrete as infill for trenches, embankments and containing walls.

**In Poland**, construction work is carried out primarily **through ACCIONA's Mostostal Warszawa subsidiary**. In 2008, there was rapid expansion in this sector, where Mostostal is strongly placed.

The slowdown in the Polish real estate market, which was especially severe in the second quarter of the year, was

offset by contracts for some of the biggest civil engineering and industrial infrastructure projects in the country.

As a result, revenue in 2008 totalled 626 million euros. The company has a further one billion euros of projects for the 2009-2010 period.

**New materials, such as recycled concrete, are increasingly being used, leading the way in environmentally-respectful construction**

## PROJECTS

IN 2008

## IN POLAND

The main projects in 2008 were as follows:

- **Wrocław Bridge.** One of the 10 largest concrete cable-stayed bridges in the world and Poland's largest (120m high and 175km long). Part of the Wrocław bypass.
- 19km extension of Wrocław highway between the airport and Długołęka.
- 10km extension of the S8 Express Road on the edge of Warsaw.
- Construction of facilities for terephthalic acid production at ANWL Chemical Plant.
- Konotopa highway.
- Białobrzegi Bridge–Jedlinsk.
- Redesign of Łódź Stadium.
- Extension of Zachem chemical company's TDI (toluene diisocyanate) plant
- Expansion of the Wieliszew ING waste water treatment plant.
- Residential building, Wrocław.
- Focus Park.
- Panska residential development.
- Rzeszów Gallery.
- Jastrzebie Zdrój shopping centre.
- Eolian Budynek garage and building.
- Ogrody Hallera housing development.

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## NATIONAL AND INTERNATIONAL CONCESSIONS

**ACCIONA Concessions is one of the main managers of projects in the world by both number of projects and business volume**

### ACCIONA INFRASTRUCTURE COMPANIES, BY SPECIALISATION

ACCIONA Infrastructure undertakes **projects of great technical complexity with the help of a group of specialised wholly-owned subsidiaries** which provide the parent company with precision, expertise and specialisation in their specific areas.

#### 1. ACCIONA Concessions

Because of the need to expand and improve Infrastructure and services to citizens, governments use **the concessions systems as an instrument for implementing specific projects through long-term cooperation with the private sector, which contributes its expertise and management capacity.**

Governments foster infrastructure development by the private sector by awarding contracts to build, upgrade and/or refurbish public works and operate the Infrastructure for a given time. **ACCIONA is an active player in this system of public-private partnerships** through its subsidiary ACCIONA Concessions.

ACCIONA currently has 18 concessions, in Spain and other countries, in the area of **transport infrastructure** (roads, tunnels, railways, ports and irrigation systems) and **social infrastructure** (universities, hospitals and other buildings). As a result, the company ranks among the world leaders in terms of both the number of projects and the volume of business.

Within ACCIONA Concessions, the company **ACCIONA Hospital Services focuses on managing hospital concessions**, a business model that has begun to spread throughout the healthcare industry. Created with the aim of becoming a leader, both in Spain and worldwide,

in end-to-end management of the process of designing, building, financing and operating hospitals under the form of concessions, the company has bid for numerous projects in recent years. Bidding activity is intense in this area: the company **is currently working on nine bids in a number of countries**, notably Mexico, Chile and Canada.

In 2008, ACCIONA Concessions obtained the **Gold Award from the Canadian Council for Public-Private Partnerships (CCPPP)** in its National Awards for Innovation & Excellence in Public-Private Partnerships. **The company also obtained the North American Deal of the Year award** from the prestigious magazine Project Finance International.

## 2008 ACTIVITY

### • Contracts obtained in 2008:

- Royal Jubilee Hospital (Canada), under the PPP formula. ACCIONA was the first Spanish company to obtain a PPP project in Canada. The 35,000 square metre hospital has 500 beds.

- A-30 highway in Canada. A 35-year concession to design, build, finance, operate and upgrade the 42km A-30 highway.
- Route 160 in Chile. A 30-year concession to build, finance and operate the 90-km toll road in the state of Concepción.

- Federal Highway Brazil: Lote 3- BR-393/RJ. The projects comprises the resurfacing, upgrading and operation of the BR-393/RJ toll road for 25 years. The toll road measures 200.4km.

### • Concessions inaugurated in 2008:

- Roda de Barà port, Tarragona.
- Aguacanal project, sectors II.2 and III of the Navarre Canal irrigation scheme.
- Infanta Sofía Hospital (Madrid).
- San Luis Potosí University (Mexico).

## LONG-TERM PORTFOLIO

### • Projects in Spain:

Tramways and urban light rail:

- TRAMBAIX (Baix Llobregat tramway).
- TRAMBESÒS (Glories-Besòs tramway).

Highways and toll roads:

- CM-400 highway between Consuegra and Tomelloso.
- R-2 toll road between

Madrid-Guadalajara, and M-50 beltway (subsection N-II to N-I).

- Villafranca-El Burgo de Ebro highway
- A-2 highway. R-2 section between Soria and Guadalajara.

Ports:

- Roda de Barà port (Catalonia).

Irrigation systems:

- Navarre Canal-Aguacanal project.

Hospital services:

- Infanta Sofía Hospital.
- Torrevieja Hospital.

### • International projects:

Highways and toll roads:

- Américo Vespucio south system. Route 78-Avda. Grecia.
- Central coastal toll road system in Chile.

- Route 160. Section: Tres Pinos-North access to Coronel. Brazil.

- A-30 highway in Montreal.
- BR-393/RJ highway (Brazil).

Universities:

- San Luis de Potosí Polytechnic University (Mexico).

Hospital services:

- Bajío Regional High Specialty Hospital and Support Unit (Mexico).
- Royal Jubilee Hospital (Canada).

## 2. AEPO

AEPO remains a benchmark engineering company. In 2008, the company strengthened its position as a **supplier to governments and expanded its international footprint**.

New auscultation equipment was brought into service, including SCRIM - which measures the sideways force coefficient of highways - and new installations for AEPO's laboratory in the area of concrete and steels.

## Contracts won by AEPO in 2008

### A. Studies and projects

#### Railways:

- Design of the railway bed for the North-Northwest Corridor high-speed railway from Valladolid to Burgos. Section: Venta de Baños junction.
- Baseline survey and construction design for the Madrid-Alcázar de San Juan-Jaén high-performance line. Integration of railway line at the Jaén access.

#### Highways:

- Construction design for the Bailén-Albacete A-32 highway, and the N-332 highway from Córdoba to Valencia. Section: Villanueva del Arzobispo-Arroyo del Ojanco.
- Design and construction of Barcelona-France A-2 highway. Section: Orriols-Garrigàs.
- Preliminary design, route design and construction design

for widening the A-384 highway. Section: Colonia de Santa Ana-Intersection with the A-92 (Antequera).

#### Urban infrastructure:

- Construction design for infrastructure and installations for a new Metro line in Torrejón de Ardoz (Madrid).
- Construction design and extension of the tramway network from Valencia to Tavernes Blanques.

#### Water works:

- Technical and environmental viability study for the new southern reservoir in the Madrid region.

#### Architecture:

- Basic project design and execution and management of the Technology Park works on plot M-1 of the Las Tablas Urbanization Plan, Madrid.

### B. Project Management and Supervision

#### Project management:

- Inspection, supervision and coordination of health and safety on the project to extend the Paseo de Santa María de la Cabeza underpass.
- Management and supervision of the North-Northwest Corridor high-speed rail project. Madrid-Galicia high-speed railway. Olmedo-Zamora section. Subsection: Pozal de Gallinas-Villaverde de Medina.
- Project management and supervision: A-27 highway from Tarragona to Montblanc. Section: El Morell-Valls bypass
- Supervision of construction of the railway bed and line on the Madrid-Zaragoza-Barcelona-french border high-speed line

(Gerona tunnels and station).

- Project management and supervision: Cantábrico highway (A-8). Section: Lindín-Mondoñedo.

### C. Infrastructure Management

- Inventory and auscultation of the Abertis highways network.
- Drafting of road surface regulations for Valencia Regional Government.

### D. International

- Contract to strengthen institutions in Chad.
- Contracts for Inspection, Supply and Assembly of bridges in Gabon.
- Draft bid for Line 2 of Warsaw Metro.
- Concession contract and construction of Route 160 in Chile.

Specialist in highly complex technical projects, with a large volume of civil & industrial engineering works

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NEW HIGH-SPEED RAIL CONTRACTS

200km

OF MOTORWAY IN BRAZIL

### 3. IBERINSA

In the area of engineering, IBERINSA is a leader in large, highly technical projects in all areas of civil and industrial engineering. IBERINSA employees are highly qualified in **developing linear works, structures, architecture, water and maritime works, environment, landscape engineering and renewable energies.**

IBERINSA is blazing a trail for ACCIONA internationally through established branches in **Honduras, Guatemala, El Salvador, Romania, Egypt and an office in Bulgaria.** In 2008, it established a new subsidiary in Brazil.

Top projects started **last year included the construction of the BR-393 highway in Brazil (200km)**, the analysis for the development of the Costa Rica railway system, and an analysis of the new highway regulations to be implemented in Albania in the near future.

## Contracts in Spain in 2008

### A. Architecture

- Design of the satellite building for the new south terminal at Barcelona airport.
- Refurbishment of terminals 1, 2 and 3 of Barcelona airport.
- Design of the new terminal at Pamplona airport.

### B. Energy

- Detail engineering for the civil work at the Muela II Hydroelectric Plant.
- Construction design of two biomass plants in Sagunto and Alcázar de San Juan.

### C. Supervision

Water supply pipe from the Llosa del Cavall dam, and the Duero A-11 highway between Longa de Duero and Aranda.

### D. High-speed rail

- Four new contracts, including double-tracking the Atocha-Getafe section of the East Coast high-speed railway line.

### E. Highways

- Construction of a road network with services and accesses to the Las Aletas business area (Cádiz).

## The Freyssinet Group operates through Freyssinet & Tierra Armada

### 4. Freyssinet Group

Freyssinet Group comprises companies offering a **wide range of specialised construction products and services**, under the prestigious Freyssinet and Tierra Armada brands.

#### Freyssinet projects in 2008

##### A. Stays

- Substitution of stays on the Zárate-Brazo Largo bridge in Argentina.
- Supply and assembly of stays for the Besaya Viaduct in Cantabria.
- Stays for the roof of Plaza Andares in Jalisco, Mexico.

##### B. Refurbishment/Building

- Refurbishment of the guard posts at San Fernando Fortress (Gerona).
- Renovation of Iglesia de los Descalzos in Écija (Córdoba).

##### C. Refurbishment/Civil Engineering

- San Pedro Viaduct in Asturias.
- Puente de la Unidad in Campeche, Mexico. Cathodic protection

##### D. Prestressing/Building:

- Mollet Hospital in Barcelona.
- Frondoso Lomas Country Tower, Mexico City.
- Bilsel building in Buenos Aires (Argentina).

##### E. Prestressing/Civil Engineering

- Madrid-Valencia-Alicante high-speed railway line. Novelda-Monforte del Cid section.
- Changuinola double cantilever bridge in Panama.

**4.1 Freyssinet** participates in projects requiring the use of **stays, prestressing, large loads, repair and refurbishment of buildings and structures**, design and manufacture of special ancillary elements such as structural supports, dilation joints for roads, seismic shock absorbers, etc.

**4.2 Tierra Armada** works with **hi-tech prefabricated components** such as reinforced earth or buttressed containing walls, arches and caissons, acoustic screens, prefabricated beams, and other turnkey prefabricated structures which greatly facilitate project management.

#### Tierra Armada projects in 2008

##### A. Walls by Tierra Armada and Pretasa

- A-66 highway between Cuatro Calzadas and Montejo in Salamanca.
- Arches on the Camarillas bypass in Albacete.
- Feria de Santana radial road in the state of Bahia (Brazil).

##### B. Arches and Caissons

- Tunnel on the Amozoc-Perote highway in the state of Puebla (Mexico).

- Arches on the Camarillas bypass in Albacete.

##### C. Bridge Girders and Decks

- TMB workshops in Bellvitge (Barcelona).
- Girders on section VIII of the RN-14 in Argentina.
- García Acosta bridge in Tabasco (Mexico).

##### D. Acoustic Barriers

- El Barral residential complex in Humanes (Madrid).

### 5. SOLS

SOLS, Sociedad Levantina de Obras y Servicios, S.A., is specialised in civil engineering and non-residential buildings, comprehensive home refurbishment and façade work in the Valencia region and elsewhere on the east coast of Spain. **One of the projects completed by SOLS in 2008 was the upgrading of the Riaño Irrigation System in León.** In 2009, the Company will continue building and surfacing the N-1 highway for the Álava provincial government, in association with ACCIONA Infrastructure.

### SOLS specialises in construction of civil engineering works and non-residential buildings

### 6. ACCIONA Infrastructure Maintenance

The goal of ACCIONA Infrastructure Maintenance is to undertake projects and provide services in end-to-end management of roads (motorways, highways, urban roads, etc.), water works (canals, reservoirs, etc.), environmental infrastructure and generally the activities related to upkeep, mainly of public infrastructure. The company is **based in Madrid and focuses its activity only on Spain, operating in practically all of the autonomous regions.**

ACCIONA Infrastructure Maintenance is currently working on 21 contracts; it has close to 500 employees and an extensive pool of machinery and other resources.

### Main 2008 maintenance contracts

- Upkeep of the Seville Metropolitan Area North Zone (GIASA, Gestión de Infraestructuras de Andalucía, S.A.).
- Regular upkeep, resurfacing and signage in León western province (Castile and León regional government).
- Road safety, maintenance and upgrading of roads, Sector One, Teruel province (Aragon regional government).
- Upkeep, maintenance and repair of the public road network in the municipality of Getafe, Madrid (Getafe city government).

- **300 highly qualified professionals**
- **Five divisions to respond to society's needs**
- **CERN (Switzerland), built with the help of ACCIONA Installations**

#### **7. ACCIONA Installation Services**

ACCIONA Installation Services brings together a range of industrial activities with the aim of responding to society's present and future needs. It has a multi-disciplinary group of more than 300 highly-qualified professionals to satisfy the needs of an ever more demanding field.

Its business is structured into five groups:

##### **1. Infrastructure & Eco-Efficient Solutions Division**

Consulting and engineering services able to design, and later construct, zero-emission buildings and whole eco-efficient districts.

##### **2. Energy Division**

##### **3. Industrial Plant Division**

Involved in the design of the Supercritical Coal Power Station (1,600 MW) project in Illinois (USA). In Spain, it is taking part in the building of the Combined Cycle Gas Power Station (2 x 400 MW) at Compostilla in Ponferrada.

##### **4. Nuclear Power Station Division**

Has helped commission nine nuclear generating units in Spain, as well as the CERN Particle Accelerator in Switzerland and the Nuclear Fuel Reprocessing Plant at Tricastin, France. It has also collaborated in the replacement of steam generators at nuclear power stations at Almaraz (Cáceres, Spain, 1997) and Angra (Brazil, 2008-2009), and in the construction of the new emergency cooling water system at Vandellós 2 nuclear power station (Tarragona, Spain).

##### **5. Security Systems Division**