



The future is yours to build
WE CAN DESIGN IT FOR YOU

 **T**YPSAgroup

Consulting Engineers & Architects



TYP SA Headquarters (Spain)



"TYP SA is a knowledge-driven service provider focused on maximizing value for its clients. Internationally recognized as a consulting partner in the fields of transportation, water, urban development, renewable energy and environment, we fulfill program and project multidisciplinary needs from concept to completion. With a real commitment to sustainable development, we contribute to economic growth by creating local capacity in the countries where we operate, opening permanent offices, training local staff and sharing our knowledge and best-practice approach. Being close to our clients helps us to better understand their needs and to provide effective and viable solutions to their specific challenges."

Pablo Bueno Sáinz, President, TYP SA Group



"Talent management, integrity, innovation, quality, sustainability, resources planning, proximity to the client and international focus are the basic guidelines of our development."

*Pablo Bueno Tomás, CEO, TYP SA Group
Member of FIDIC Executive Committee*

TYPSA — A Worldwide Recognized Leader in Consulting Engineering Services

TYPSA Engineers, Consultants and Architects is a consulting engineering firm based in Spain with over 44 years of experience successfully executing major infrastructure projects in Europe, the Americas, Africa and the Middle East to improve and sustain enhanced living conditions around the world.

In order to provide creative, effective and viable solutions to its clients on a worldwide scale TYPSA, an employee-owned firm, has grown to a group structure with increased international presence through the creation of branch offices and the acquisition of firms with a solid experience in the markets it serves.

The TYPSA Group has established an integrated workforce with multi-disciplinary teams of experienced dedicated professionals around the globe. With 1880 professionals on staff and estimated combined revenues of more than 220 million US\$ in 2009, TYPSA is internationally recognized with top industry rankings and awards, placing 52 out of the Top 300 European consulting firms and 91 out of the Top 200 Global Design Firms in 2010, according to *Engineering News-Record*.

TYPSA's international focus is reinforced by its membership in sector associations, having a Member in the Executive Committee of the International Federation of Consulting Engineers (FIDIC), and being an active member of the Panamerican Federation of Consulting Companies (FEPAC).

AZTEC ENGINEERING GROUP, INC.

In 2006, TYPSA acquired AZTEC Engineering Group, Inc. (AZTEC), a consulting firm in the United States that specializes in transportation, water resources, public works, environmental services, land development, utility locating and designating, and surveying. AZTEC

currently has offices in Arizona, Florida, California, Nevada and Texas, with a staff of over 180 professional, technical and support personnel. AZTEC has a proven track record of delivering high profile projects with award-winning innovative design solutions across the Southwestern United States.

AZTEC has developed lasting relationships with numerous state DOTs, cities, counties and private clients through the timely preparation of quality documents which has been key in launching the TYPSA Group into a well-positioned niche in the US market.

ENGECORPS, CORPO DE ENGENHEIROS CONSULTORES LTDA.

In 2009 Engecorps joined TYPSA to enhance the Group's technical expertise and increase its global multi-disciplinary resources. With over 150 professionals, Headquarters office in Sao Paulo, branch offices in Brasilia and Rio de Janeiro and one in the Dominican Republic, Engecorps provides specialized services for the planning, engineering design, construction management and supervision, technical assistance and commissioning of large water infrastructure projects such as the Tucuruí Locks, a US\$ 800 million project and one of the most important infrastructure developments in the country.

BHA ENGINEERING, INC.

In 2010, BHA Engineering, Inc. (BHA) joined the TYPSA Group as a wholly-owned subsidiary of AZTEC. BHA is a South Florida based firm that specializes in providing engineering services for transportation and infrastructure projects, and is recognized for its specific capabilities in the planning and design of roadways and bridges. BHA has been in business for over 55 years and has a very experienced staff of 35 employees with an average of more than 20 years in the Company.

- › Apart from the Group companies in the US and Brazil, TYPSA has permanent presence in Angola, Argentina, Bolivia, Bulgaria, Ecuador, Jordan, Mexico, Montenegro, Morocco, Peru, Panama, Paraguay, Portugal, Romania, Saudi Arabia, Spain, and the United Arab Emirates.



Typsa Headquarters Office in Madrid (Spain)

Comprehensive Services that Meet the Challenges of Today and Tomorrow



High-Speed Railway Madrid-Seville AVE (Spain)



Benageber Reservoir, Valencia (Spain)

TYPSA Group provides highly-specialized technical expertise to develop innovative, viable solutions in a broad range of sectors:

› Water

WATER AND WASTEWATER INFRASTRUCTURE, WATER RESOURCES PLANNING

TYPSA provides preliminary and final design, construction supervision, and procurement support for water infrastructure projects such as dams, water distribution, and sewage networks and canals. TYPSA's expertise includes the design, administration and operation of complex water management systems, including project identification and cost benefit analysis, environmental and socio-economic assessments, hydraulic studies and modeling, and the development of master plans for future water source exploitation. Other work involves river basin management, flood risk analysis, water resources planning, strategic planning for drought management and dam conservation, and maintenance and operation.

› Environmental

WATER TREATMENT AND SANITATION, DESALINATION, SOLID WASTE MANAGEMENT AND LANDFILLS ENVIRONMENTAL IMPACT ASSESSMENT OF INFRASTRUCTURE PROJECTS, ENVIRONMENTAL PROTECTION OF NATURAL ECOSYSTEMS

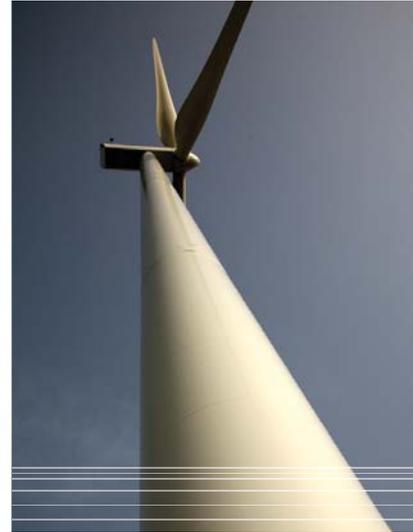
TYPSA is a leader in the evaluation of environmental projects, including those involving water treatment, waste management, noise and air pollution, and desalination. TYPSA provides preliminary and final design, construction supervision of the designed services, procurement support for equipment and supplies, and subcontracting to local micro-companies. In addition, TYPSA engineers conduct environmental impact studies, develop strategies for the environmental protection of natural ecosystems, create public awareness programs, and assist with institutional strengthening for authorities and stakeholders.



Jorge Chavez International Airport
Construction Site (Peru)



Metro Sur Tunnel, Madrid (Spain)



Wind Park in Albacete (Spain)

› Transportation

ROADS, RAILWAYS, METRO, PORTS, AIRPORTS, TRANSPORTATION PLANNING

In the field of transportation, TYPESA provides preliminary and final design, as well as full-service construction supervision of designed services, equipment, and facilities. In addition, TYPESA conducts economic, financial and transportation studies and manages the development and planning of public-private schemes and future investments. The scope of work involves environmental assessments, procurement assistance, preparation of tender dossiers, operational staff training, and capacity building of authorities and local organizations.

› Civil

CIVIL-SITE, GEOTECHNICAL, MECHANICAL, ELECTRICAL, STRUCTURAL, TUNNELS

TYPESA provides civil works supervision according to FIDIC rules, including equipment inspection and quality control. TYPESA conducts structural, geological, geo-hydrological, and geotechnical studies, as well as Social Impact Reviews. Other services include procurement assistance, natural resource management, and safety and health coordination.

› Architecture & Construction Services

ARCHITECTURAL DESIGN, LAND DEVELOPMENT, URBAN PLANNING

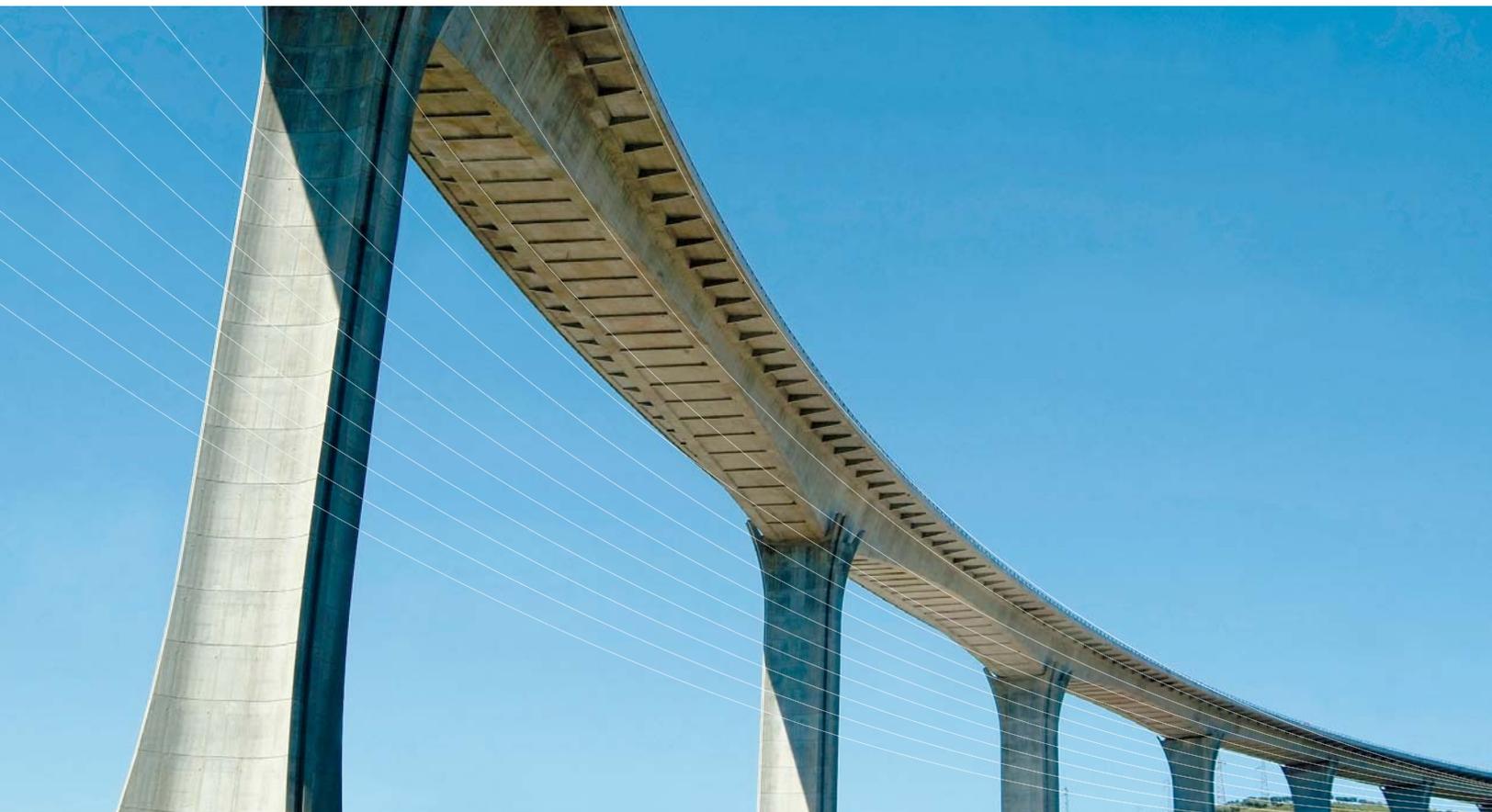
TYPESA provides architectural design as well as a full range of engineering services for major architectural and urban development projects. Major work in this area includes architectural supervision, preliminary and final engineering design, preliminary studies and structural evaluations, urban planning, traffic studies, environmental impact assessment and risk analysis, as well as due diligence, project management, and preparation of tender documents.

› Renewable Energy & Energy Efficiency

SOLAR, HYDRO, & WIND POWER

TYPESA's expertise in renewable energy projects includes analysis of project effectiveness, efficiency, and sustainability as well as preliminary and final design. In addition, TYPESA provides design, construction supervision, and environmental services for designed services, equipment, and facilities including renewable energy parks. With expertise in structuring effective public-private partnerships, TYPESA also features in-house capabilities in greenfield, photovoltaic, solar thermoelectric, and wind energy projects.

A Steadfast Commitment to Quality and the Environment



Given the increasing importance of dealing with environmental concerns related to engineering projects, TYP SA Group has created a subsidiary dedicated to environmental and renewable energy-related services. Established in 1990, **TECNOMA** has now over 250 professionals with working expertise in the fields of water and sanitation engineering, solid waste management, environmental protection and solar/hydro/wind power.

TYP SA and Tecnom a hold certificates from the Spanish Association of Standardization and Certification for compliance with UNE-EN-ISO

9001:2000 and UNE-EN-ISO 14001 International Standards. TYP SA's contribution to society goes beyond providing technical services. Its people are actively involved in the business, scientific and education communities, promoting economically, environmentally and socially sustainable management practices.

Pursuant to its commitment to provide clients with creative and effective solutions, the TYP SA Group allocates 1% of its revenues to Research and Development of new technologies to meet today's engineering challenges in a rapidly evolving world.

Some examples of our recent experience in technically complex projects that require resourceful management insight include:

› Gibraltar Tunnel Project

2007 – 2010
Morocco – Spain

A joint-venture of highly-specialized European tunnel engineering consultants led by TYPESA was hired by the Spanish and Moroccan governments to carry out the preliminary design and Environmental Impact Assessment of the railway connection under the Strait of Gibraltar, ensuring proper flow of train traffic between Spain and Morocco.

The railway tunnel's total length is 38.7 km (24.04 mi) and the section below sea level is 27.7 km (17.21 mi) long. The tunnel is to be located 500 m (1640 ft) below sea level due to the depth of the sea bottom (300 m/984 ft) and to the adverse geotechnical conditions.

The Consortium led by TYPESA performed geological and geotechnical calculations; drafted technical specifications; and designed the tunnel, terminals, track, rolling stock, catenary, electrification and other equipment. The consortium also elaborated cost and risk analysis for the different construction phases and conducted an Environmental Impact Assessment of this challenging and unique infrastructure project.



Atlantic High-Speed Railway Line (Spain)

› Atlantic High-Speed Railway Line

2009 – 2012
Spain

TYPESA is supervising the construction of two large sections on the Atlantic High Speed Railway line, one of them over the Ulla River in the northwest of Spain. The section includes almost 5 km of tunnels and a 1,6 km bridge over the river, which makes it particularly challenging, and in 38 months TYPESA will ensure the completion of the construction.

The Atlantic High-Speed corridor is one of Spain's most ambitious high speed rail projects, aiming at connecting the historically isolated provinces in the northwest of Spain and thus contributing to socio-economic development of the area.



View over the Strait of Gibraltar (Morocco & Spain)



Eastern European Railway Connections (Bulgaria & Croatia)

› Eastern European Railway Connections

2006 – 2012
Bulgaria & Croatia

The development of Transport Networks is a top priority in Europe, mainly to connect with its new Member States. TYP SA is playing a key role in this process by leading two of the most important railway service contracts funded by the European Commission.

Since 2006 TYP SA has been in charge of the design review and construction supervision of the Plovdiv-Svilengrad railway line in Bulgaria (151 km) that includes electrification works and improvement of corridors IV and IX. In 2008, it was awarded the construction supervision of the railway section between Vinkovci and Tovarnik (33.5 km) in the Pan European Corridor X, connecting the eastern part of Croatia with the Serbian border.

Both projects will help increase rail transport competitiveness and improve transit times, moving towards the use of rail over road, with the consequent environmental benefits.

› I-10/SR 303L Traffic Interchange

2009 – 2010
Arizona, USA

AZTEC is providing final design for this phased traffic interchange project. It is the first of two phases and will lay the groundwork for what is planned to be the Valley's largest System TI with a unique, five-level configuration of fully-directional ramps, and an embedded one-way frontage road network to serve the arterial street system surrounding the TI. This project also establishes regional and local drainage facilities, relocates existing utilities and provides related infrastructure that will serve the ultimate TI and future SR 303L improvements. Other key project features include: 14 bridges, crossroad improvements at Citrus Road, Sarival Avenue, Thomas Road, and McDowell Road, an on-site drainage system, a regionally significant off-site drainage system, traffic operations infrastructure and major utility relocations.



› I-595 Corridor Improvements

2006 – 2010

Florida, USA

BHA/AZTEC is performing corridor improvements on two zones of the I-595 corridor, from the I-75 Interchange to the I-95 Interchange in Broward County, Florida. The project consists of 10 miles of reversible express lanes and freeway widening, interchange improvements, new bridges, utility relocations and improvements to frontage roads and crossroads and will result in improved mobility and reduced traffic congestion on Broward County's only east/west freeway. BHA/AZTEC is under contract to AECOM who is the overall project design coordinator for the PPP Concessionaire, ACS/Dragados. The BHA/AZTEC contract value is \$5 Million.



I-595 Corridor Improvements (Florida, USA)



I-10/SR 303L Traffic Interchange (Arizona, USA)



Locks of Tucuruí (Brazil)

› Locks of Tucuruí

2007 – 2010

Brazil

Engecorps carried out the preliminary and final design of the complementary works to the Tucuruí Locks transposition system in Brazil, and is now in charge of construction supervision. The Project tackles the need to overcome a drop of nearly 75m created by the construction of the Tucuruí hydroelectric plant, and will make the river navigable between Belem and Maraba in Pará state. The many rapids on this stretch of the Tocantins River were also an obstacle to the passage of large ships.

The construction of this spectacular work of hydraulic engineering will be completed by the end of 2010, and once finished, the locks will be the largest in the world.

› Anfa Place Multi-Purpose Complex in Casablanca

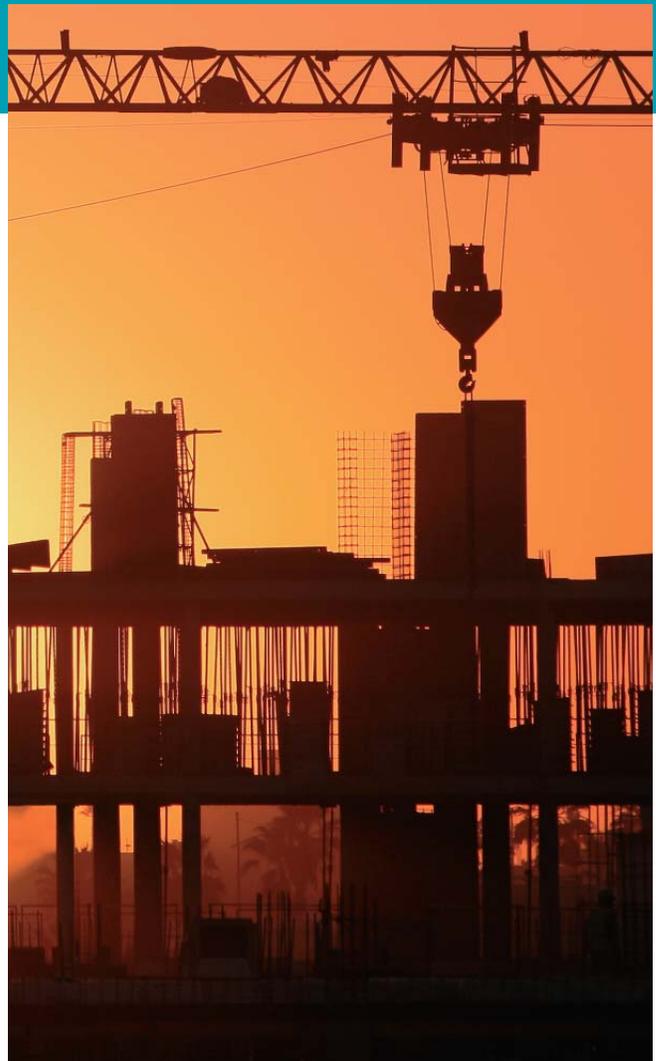
2007 – 2011

Morocco

The Anfa Place Complex, located in a privileged area of Casablanca, is based on the conceptual design created by the world-class architectural practice Foster & Partners. Conceived as a 260.000 sq. meter multi-purpose building it comprises offices, a financial club, tourist and residential apartments, a five-star hotel, a mall, a parking area with capacity for 3,600 vehicles, among other facilities.

The complex, based on an environmentally-friendly design, includes the construction of a variety of commercial, tourist, financial and leisure buildings. TYP SA is the Construction Manager of the entire complex, assisting the client with contractual issues, schedule control, works supervision and permitting.

Morocco is now a preferred tourist destination and the Anfa Place Complex will contribute to socio-economic development in the country setting the standards for the tourist industry.



Anfa Place Multi-Purpose Complex in Casablanca (Morocco)

› Niksic Wastewater Treatment Plant

2009 – 2012

Montenegro

Since 2009 TYPASA is actively involved in the rehabilitation of the wastewater collection network and of the WWTP of the Niksic municipality in Montenegro, a neighboring country to the European Union, with funding from the European Investment Bank.

TYPASA is in charge of reviewing the design of the network and of supervising the rehabilitation works, and the future WWTP will have an average flow of 15.422 m³/d and will be able to serve 110.000 inhabitants.

The project will facilitate pollution control, contribute to the environmental protection of the area and bring sanitation standards closer to the ones of the European Union.



Niksic Wastewater Treatment Plant (Montenegro)



Hydro Power Plants (Peru)

› Hydro Power Plants in Peru

2010

Peru

TYPASA is increasingly active in the hydroelectric sector and in promoting the use of renewable energy sources. Since early 2010 it is designing three 20 MW hydroelectric power-generating plants on the River Chiamayo in the Puno Department. The team is integrated by professionals from the Peruvian and Brazilian subsidiaries and it is facing heights of over 4,000 m to reach the plants in this Project.

The provinces in the Department of Puno were isolated until the construction of the Interoceanic Highway, and they now suffer from a serious lack of electric supply, which is why this Project will contribute enormously to the economic and social development of the area.

Making Advances in Economic Development and Sustainability



Consistent with TYP SA's firm commitment to economic development, TYP SA Group companies have become valued members of the business community, creating employment opportunities and enhancing local capacity-building efforts.

For over 30 years, TYP SA Group has been successfully implementing donor-funded, development-oriented projects for the African Development Bank, the Andean Development Corporation, the Central American Bank for Economic Integration, the European Commission, the European Investment Bank, the Inter-American Development Bank, the Millennium Challenge Corporation and the World Bank.

A selection of significant projects that highlights our extensive collaboration with donor agencies includes:



FOMILENIO Road Program (El Salvador)

› Nandi Forest Multi-Purpose Dam Development Project

2010 – 2011
Kenya

TYPSA is preparing the feasibility study and detailed design of the Nandi Forest Multipurpose Dam, an infrastructure development project that will involve a 60m high dam with a 300Hm³ capacity, hydraulic tunnel (17.5 km), 50 MW HHP, irrigation scheme for a 17,000 ha area and other water supply infrastructure. The environmental and social impact analysis will be an essential part of the work, and public participation outreach will be carried out to introduce the appropriate mitigation measures.

The Nandi Forest Multi-purpose Dam will provide a large scale water reservoir that will have multiple uses including domestic water supply, irrigation, flood control and power production contributing to the regional and social development and also to environmental sustainability.

› FOMILENIO Road Program

2008 – 2012
El Salvador

TYPSA is part of the Management Team of the Road Connectivity Program of FOMILENIO funded by the Millennium Challenge Account in El Salvador.

The Program includes the improvement of the road network in the northern part of the country, mainly the 290 km long North Highway. Improvements to this road facilitate connection to the main transport corridors and local producers will have easier access to markets and social services in the rest of the country, increasing national and international competitiveness.

TYPSA supports the Salvadorian public body promoting the Project at the different stages: strategic planning and control, evaluation of design offers and awards, supervision of designs and engineering studies, technical, financial and administrative support for the procurement of the construction that began in 2009 and finally the construction supervision.



Nandi Forest Multi-Purpose Dam Development Project (Kenya)



Regional Transport Action Plan in the Mediterranean (Mediterranean Countries)

› Regional Transport Action Plan in the Mediterranean

2010 – 2013

Mediterranean Countries

TYPSA is leading a group of consulting engineering companies that is assisting the European Commission in the Implementation of the Regional Transport Action Plan in the Mediterranean, acting as the Main Contract to the EuroMed Transport Project, the European Union's regional transport cooperation project with its southern neighbors.

The project is aimed at improving the functioning and the efficiency of the Mediterranean transport system by giving support to institutional and market reforms, promoting the harmonization of operational norms and regulations, encouraging the coordination of transport policies and establishing the financing mechanisms. It involves the organization and participation of high level representatives of the 12 partner countries in the working groups, task forces, and forums, and also running a Project website and providing TA to the identified priority transport projects.



Water Scarcity and Drought Plan for Europe (European Union)

› Water Scarcity and Drought Plan for Europe

2009 – 2012

European Union

Water scarcity and droughts are among the most severe environmental problems in Europe, especially in the Mediterranean region. In order to address it, the European Union is adopting measures to fully comply with the Water Framework Directive and thus to achieve a sustainable use of the land and to save water.

TYPSA is contributing to the efficiency of these policies by providing technical assistance to the European Commission regarding water costs, financing or grants, management of droughts, water supply infrastructure, water saving technologies and practices, the promotion of a new water culture in Europe and the awareness raising of this issue.

Recognition

TYPSA Group is continuously recognized for its engineering excellence by national and international institutions, including awards such as:

Potencia Award 2009 for the “Design of the New Bridge over the River Miño” in Spain.

ASICA Prize 2008, citizen’s award for the *best work in the environment*. Tecnomia got the award for the environmental restoration, recovery and environmental projects carried out at the Andévalo Dam for the Guadiana River Basin Authority, Spain.

Via Engineering Company of the Year Award 2008.

Civil Engineering and Outstanding Engineer Award 2008, awarded by the Regional Government of Madrid to Mr. Pablo Bueno Sainz, President of TYPSA Group for consolidating the company and turning into a model of innovation and internationalization.

Best Public Works 2008 awarded by the Madrid Civil Engineering Board for the renovation and extension of the Madrid metro line 3, in which TYPSA carried out the works supervision.

Best Public Works 2008 awarded by Madrid Civil Engineering Board for the high-speed rail access to the north and northwest of Spain, for which TYPSA provided the Technical Assistance.

Elevator World 2008: Elevator World 2008 for the best Project of the year. Inclined Elevator in Ereaga Beach (Basque Country).

Madrid Government European Excellence Award, 2007

Representative List of Clients

PUBLIC

National, Regional and Municipal Governments worldwide

DEVELOPMENT AGENCIES & FINANCING INSTITUTIONS

European Commission
European Investment Bank
Millennium Challenge Corporation
African Development Bank
Inter-American Development Bank

The World Bank Group
Central American Bank for
Economic Integration
Andean Development Corporation

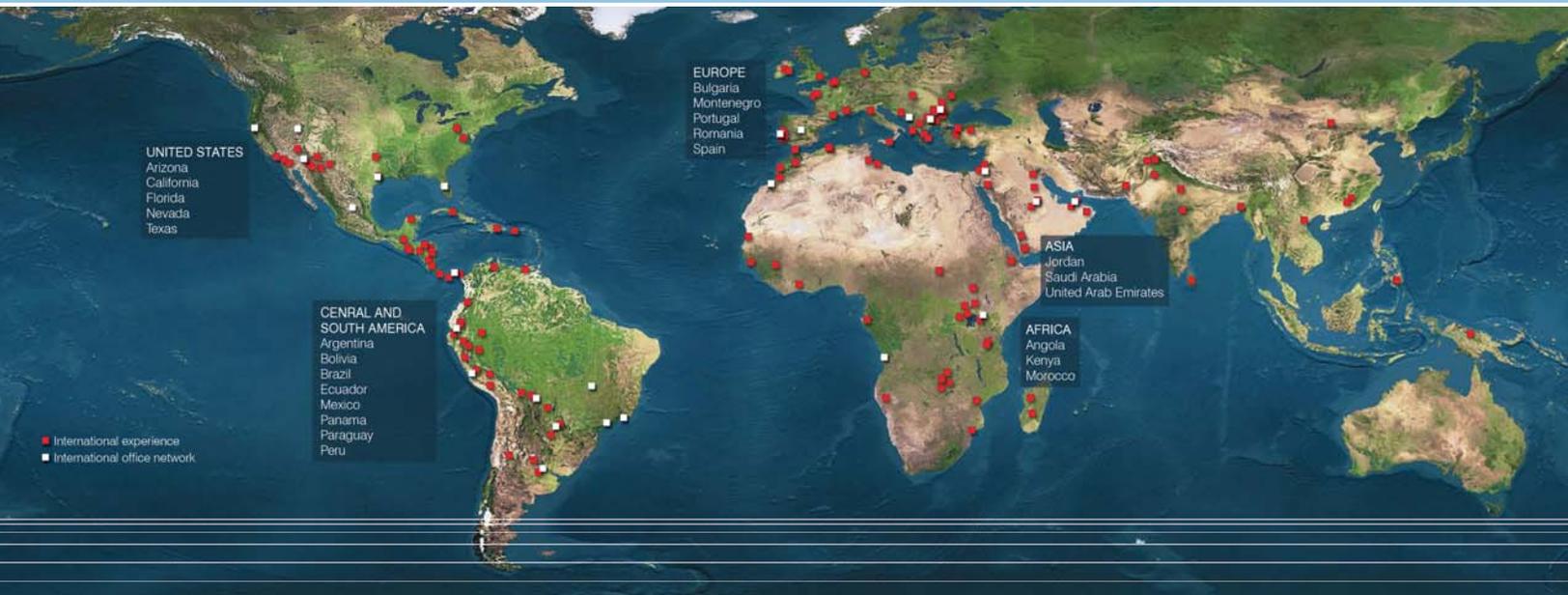
PRIVATE

Abertis of Spain
Dragados – Iridium of Spain
Ferrovial – Cintra of Spain
FCC – Globalvia of Spain
SACYR – Itinere of Spain
OHL of Spain
Acciona of Spain
Telefonica of Spain
IFEMA of Spain
Santander Bank of Spain
Barclays Bank of Spain

BBVA Bank of Spain
REPSOL of Spain
ISOLUX-Corsan of Spain
Iberdrola of Spain
BNP Bank of France
HSBC Bank of the UK
ENEL of Italy
EDP – Neoenergia of Portugal
SAMA Dubai of the UAE
CH2M Hill of the US
URS of the US

Subsidiaries:





SUBSIDIARIES:

AZTEC Engineering Group, Inc.
(United States: AZ, CA, FL, TX, NV)

MEXTYPSA
(Mexico)

ENGECORPS
(Brazil)

TEGEP SA
(Peru)

TYPSA EOOD Limited
(Bulgaria)

BLIZZARD Engineering Design
(Romania)

TYPSA MAROC SARL
(Morocco)

TYPSA Saudi Arabia Ltd.
(Saudi Arabia)

TECNOFISIL
(Portugal)

TECNOMA
(Spain)

COUNTRY OFFICES:

Angola, Argentina, Bolivia, Ecuador,
Jordan, Montenegro, Panama, Paraguay,
and the United Arab Emirates

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