

# EMPRESAS HÚNGARAS

## **S-METALLTECH 98 MATERIALS RESEARCH AND DEVELOPMENT KFT (S-Metalltech 98 Kft)**

### *Water treatment technology*

*drinking water / industrial wastewater / irrigation water / animal watering*

The main activities of our company are the development and production of special materials applied in the fields of environmental technologies as water treatment, power industry and reactor technique:

- Research, development and production of multicomponent materials based on mainly the HERF techniques cooperating with home and foreign partners.  
The High Energy Rate Formings (HERF) allows the manufacturing of products with unique properties at reduced cost, with significant applications in electrical, mechanical and nuclear engineering.
- Elaboration of water treatment technologies and production of adsorber material for arsenic, boron, iodine and fluorine mitigation.  
We have developed the simple\* and flexible\*\* MET Water System to supply safe drinking and irrigation water by treating arsenic, boron, iodine or fluorine contaminated waters.

\* Simple: meaning that the operation of the equipment does not require any special skill or supervision

\*\*Flexible: meaning that the system can be simply matched to the composition of the local water quality and the equipment can be produced in the capacity range of 1 m<sup>3</sup>/day – 10,000 m<sup>3</sup>/day.

In 2014 we designed and built a factory in Jászfényszaru (Hungary), where regenerable arsenic, boron, iodine and fluorine adsorbents are produced. These materials clean the water without any chemicals and at a low operational cost.

Based on the adsorbents above we have developed the MET Water System. The easy-to-treat, small (EU norm pallet sized) water treating MET Water Units (MWUs) installed in different villages and/or institutions (hospitals, schools etc.).

More than 10 different types of our systems are in operation in Hungary with the capacity range of 6 m<sup>3</sup>/day – 1200 m<sup>3</sup>/day. These systems are operating at waterworks, schools, food companies, crop growing companies etc. We have 3 test units in Serbia, Slovakia and in Vietnam.

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## **TSPC**

### *Architecture and engineering*

The TSPC Group was established in 2012 as an architectural and engineering firm. Its objective is to introduce a new approach to design and engineering services in the Hungarian and the international market.

After its launch, the company started to grow dynamically, and the young and flexible team of engineers and experts makes sure they can face competition in the ever-changing market, in Hungary and abroad. Thanks to the high quality service they provide, the group has become a major player in the design and engineering market in Hungary.

They believe that, relying on the experience they gain through their work and on their open attitude towards innovations, they will continue to provide responsible, yet innovative and complex engineering services to their clients.

As the group was growing, separate companies were established for the specific services. Each company in the group provides quality service in its field, and together, supporting one another, they can meet any need for engineering services.

TSPC Technical Supervision and Planning Consulting Hungary Kft.

TSPC Mernökiroda Kft.

TSPC BIM Kft.

TSPC ASIA Ltd.

### **TSPC Technical Supervision and Planning Consulting Hungary Kft.**

The design firm has comprehensive experience in planning projects and coordinating their complex (architectural and engineering) design process in the following fields: residential buildings, hospitality, tourism, culture, sport and recreation, industrial facilities, education, logistics, special technologies, health care, offices, public institutions, commercial facilities, civil engineering and infrastructure.

Their colleagues address high aesthetic needs, while providing cost-effective and sustainable solutions and ensuring compliance with energy and other sustainability requirements, all this aligned with the needs and expectations of the clients. They have developed their own complex design platform, which allows for traceable communication between designers, specialist designers and clients; this ensures that expected schedules are met and that project documentation and their service are of the highest quality. Their firm is committed to development-focused design, and strives to maintain an open approach to the expectations of developers. They follow the innovations and opportunities provided by advanced technology.

In Their design services, with a complex approach to design, they provide complex solutions to their clients in addition to planning application documents and construction project documentation: feasibility studies permit procedures, tender documentation, as-built documentation, spatial and temporal organisation plans, sustainability plans, etc.

Fields in which they provide services with their own staff:

Design management, complex (architectural and engineering) design; Architectural design; Structural design (load-bearing structures); Electrical design; Building fire protection design; Environmental engineering (facility and technology) design; Waste management planning; Air quality management planning; Energy performance

certification of buildings; Geodesy; Technical consultancy in public procurements; Budget development; Structural (building construction) and architectural expert services.

Together with their subcontractors (who design mechanical and electrical systems, water projects, roads, public utilities and industrial infrastructures), they provide complex (architectural and engineering) design services.

### **TSPC Mérnökiroda Kft.**

The engineering firm has comprehensive experience in providing project management, FIDIC engineering, project implementation, engineering and expert services, often with comprehensive engineering coordination, in projects in the following fields: residential buildings, hospitality, tourism, culture, sport and recreation, industrial facilities, education, logistics, special technologies, health care, offices, public institutions, commercial facilities, civil engineering and infrastructure.

Their colleagues represent their clients throughout the projects to a high standard, making sure that the clients' needs are met in terms of cost management, time management and quality assurance. One of their strengths is the project management platform they developed, which provides traceable communication between project managers, specialist engineers, designers, constructors and clients, and in which the projects can be documented. This ensures that the planned schedule is met and the service is of the highest quality. The firm has a comprehensive approach, and through their engineering services they deliver complex solutions to their clients. They saw the opportunity in the changes of the construction industry and in their experience in complex design processes, and they continued to "build", adding new members from new specialties to their team.

Fields in which they provide services with their own staff:

Project management; FIDIC engineering services; Project implementation, Construction supervision; Construction supervision by specialties; Expert services, Costs-related expert services, budget development; Technical consultancy in public procurements.

For every project, they create an expert organisation with parameters that are tailored specifically to the type and scale of the task. Their professionals and co-designers put to use the experience they have gained in renowned architecture firms to serve their clients.

### **TSPC BIM Kft.**

As a dynamic engineering team, they are committed to innovative solutions and services. They believe that 3D representation is much more than mere visualisation. Assigning reasonable data and properties to the elements of 3D models provides a great advantage in all areas of construction projects. Plans created in BIM contain information on the whole life-cycle of the buildings. This set of information is different for every project. Their experience and continuous learning ensures that they use the optimal work processes to meet the clients' needs, thus delivering a product that is cost-effective and yet professional. With the information models they create this way, time, energy and money can be saved in the course of construction, the preparation of the construction, and operation; all through to the demolition of the building.

As their group's activities include both planning and implementing construction projects, their staff has considerable experience. With their up-to-date office infrastructure and comprehensive knowledge of software programmes (ArchiCAD, Revit, AutoCAD, Tekla, AxisVM, Vico Office, Solibri) they are a trailblazer in the market with their services, as compared to firms that "only" offer BIM processing.

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## **UTIBER**

### *Transport infrastructure development, construction*

UTIBER LTD is one of the leading designer and consulting engineering organization in the Hungarian market. The activities of UTIBER are closely linked with transport infrastructure development, construction and modernizations of the road network, which has significantly contributed to Hungarian transport infrastructural developments. The company has continuously expanded its scope of services to a match market needs in the past years. It has achieved the appreciation of clients and professional stakeholders by being involved at the design, preparation, and management of transportation, and a diversity of constructing industry investments.

The firm's management is motivated by the intention to keep this already reputed status in the market of consulting engineering services.

In this endeavour, great importance is attached to the human factor. In addition to the permanent staff, UTIBER has a further access to a great number of special experts and sub-consultants employed on-contract. The broad professional background in engineering, economics, law and other disciplines ensures the implementation of projects with high quality, in strict observation of deadlines and at favourable costs in order to meet the requirements of clients and operators alike. The diversity of expertise the staff possesses makes the firm capable of managing civil engineering and building projects throughout the whole project cycle, i.e. from the feasibility studies until the taking over of the completed facility by the client.

Corporate culture based on traditional values naturally contributes that our professionals aiming at structured thinking and overseeing individual projects implementation. This phenomenon is reflected in our mission: "From idea to realization"

UTIBER is a founding member of the Hungarian Association of Consulting Engineers, which is the national society of FIDIC. UTIBER was the first company in Hungary applying FIDIC conditions as tendering and contracting method already well proven in the international practice and has been systematically working, as engineer, on this basis at its major projects. In 1998 the firm obtained ISO 9001 qualification and introduced quality assurance to each field of its activity as certified year-by-year by an independent auditor.

### **Major services**

- Design tasks (studies, design for approval, tender drawings, final design, as-built drawings, including all related disciplines)
- ENGINEER'S tasks (Full-scale preparation and management of construction project), technical supervision
- OTHERS:
  - Management of tender procedure (preparation of full scope of tender documents and management of the tender process according to the rules of the financing organization)
  - Area acquisition, expropriation

## **Focus projects**

- Expressways, motorways, limited access highways and trunk roads, their urban (approach) sections and the related structures, rest-areas, service stations, etc.
- Railway projects
- River bridges, road and railway overpasses, other structures
- Urban transport projects: tramways, other (connecting, bypassing, service and cycle) roads
- Solid waste management systems, recultivation of abandoned waste dumps
- Wastewater treatment plants, wastewater sewers, water pipes
- Flood protection, river regulation projects, ports
- Building projects (border stations, shopping centres, expressway engineering plants, office buildings, educational, medical investments)

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## **BDL ENVIRONMENTAL LTD.**

*Environmental engineering / consultancy, asset evaluation and consultancy*

We are committed to offer our partners personalized, systematic solutions in all aspects of the water sector in the field of:

- drinking and fresh water purification
- municipal and industrial wastewater treatment
- storm water management
- environmental remediation
- asset evaluation, asset management consultancy
- reconstruction planning
- financial and economic consulting
- investment planning

The professional knowledge and experience of our staff as well as our partners ensures that our firm is not only able to cover the full technical fields related to design (environmental-, control and, civil engineering), but it is also able to navigate the complex financial and economic dimensions of water utility services and investment planning and implementation. Due to our diverse professional know-how, we consider technical, ecological, and economic aspects to find the most sustainable alternatives which support our clients in optimizing their decision-making.

Our colleagues in the different segments of the water sector possess outstanding professional and innovative knowledge – they have, in fact, been known and recognized in many parts of the world. As a member of the Hungarian Water Cluster, alongside 27 other corporate members, we can rely on the expertise and resources of more than 2000 colleagues.

We carry out the planning, design and development of the networks point-like, plant-like facilities. Furthermore, we regularly participate in the expansion, modification and reconstruction of existing networks and facilities.

Our services cover the full range of engineering, construction and investment preparatory tasks:

- Technical Condition and Environmental Assessment (eco-audit)
- Feasibility studies, option analyses
- Cost-benefit analyses (CBA)
- Dynamic Cost Comparison (DCC)
- Life-cycle costing (LCC)
- Management of licensing processes
- Preparation of tender documents
- Detailed design, construction plans
- Test operation documentation and supervision (management, remote control and supervision)
- Asset evaluation, creating the structured utility asset database for utility inventory (MIAD – Multipurpose Infrastructure Assessment Database)
- Asset management for operators, municipalities and utility owners

We also provide technical and economic evaluation activities: by systematic assessment and determining the real asset value we can provide complex suggestions to improve the effectiveness and optimize cost-efficiency of existing facilities, besides decreasing operational costs and improving the overall sustainability of water services.

- Vietnam, Quang Binh, drinking water purification plant (100,000 PE, 10,000 m<sup>3</sup>/d, 2016)

- Iraq, Al-Dour – Salah Aldeen, communal wastewater treatment (9,308 m<sup>3</sup>/d, 46,542 PE, 2015)
- Russian Federation, Yekaterinburg, industrial wastewater treatment (15,000 m<sup>3</sup>/d, 100,000 PE., 2014)
- Hungary, Simontornya, environmental remediation (groundwater treatment, 2012)
- Hungary, asset evaluation (1868 settlements, 46,700 km network, technological and other “point like” facilities, 2015)
- Germany, “Project Appraisal Manual for DCC calculation guidance of water supply and wastewater disposal projects in Hungary, Bulgaria, Slovakia and Romania“ (2011)
- Austria, “Consulting services for improvement of efficiency and business planning of water utilities” (2016)

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## **BUDAPEST WATERWORKS**

*Water management/Public utility services  
Drinking and Wastewater; Design and construction;  
Operations; Business consulting; Engineering*

The core activities of the almost 150-year-old Fővárosi Vízművek Plc. (Budapest Waterworks) include potable water treatment, potable water production, pipe network operation and potable water services, as well as sewage treatment and the related services, activities, which are supported by world standard technologies.

The design and construction knowledge resting on operational experience and the extensive practice gained in this field are indispensable in helping us develop and operate the sizeable water utility assets we manage in the long-term, thus satisfying even the highest expectations; and to reconstruct them to meet the expected level of efficiency.

The excellent Hungarian engineer training system, our experienced and knowledgeable technical professionals provide the Company with a very good and reliable background to the technical development projects on which it has embarked in the recent years. Our Company not only designs and partly implements its own projects with its own capacities and with the involvement of subcontractors, but also accepts more and more external project orders all over the world.

Budapest Waterworks, founded in 1868, supplies 2 million people with healthy potable water or sanitation services in Budapest and in the conurbation area.

Having undergone major transformations, developing from a socialist city potable water utility to internationally recognized regional company operating water and sewage systems, we are ready to share our experience in restructuring operations; implementation, integration and development of cutting-edge technologies; construction projects, and in reorganisation and process management of customer service processes and non-revenue water management beside many more areas.

Besides offering our expertise to potable or wastewater supply companies, utility companies, as well as municipalities, governmental and non-governmental institutions searching for ways to reform and improve their water related utility services, Budapest Waterworks can provide operational expertise, consultancy and background to water utility related infrastructure development and construction projects.

We developed our mobile water purification systems, which are usable both for shorter periods, for example in the event of a service failure or a natural disaster, and for longer periods providing smaller settlements, refugee camps with healthy drinking water.

Indonesia - Construction of water treatment plants (72 m<sup>3</sup>/h or 144 m<sup>3</sup>/h capacity) in 34 locations.

Sri Lanka - Rehabilitation and expansion of two water treatment plants supplying the capital city with potable water. Kalatuwawa will be extended from 71,000 m<sup>3</sup>/d to 90,000 m<sup>3</sup>/d, whereas Labugama from 40,000 m<sup>3</sup>/day to 60,000 m<sup>3</sup>/day.

Azerbaijan - Introduction of electronic workforce management system, design and technical supervision of two potable water reservoirs, preparation of the ten-year IT strategy of the state owned water utility company, AZERSU.

IAWD – World Bank - Elaboration of business and long-term development plans for water utility companies in the West-Balkans focusing on customer services, revenue collection and reduction of non-revenue water.

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## **TRINITY ENVIRO LTD.**

*Environmental protection/Consultancy*

*erosion; water quality; lake restoration; irrigation;*

*eutrophication, stakeholder consultation, participatory planning; ecosystem management*

Our company is a consultancy comprised of the finest, most highly educated experts in their respective fields, specifically chosen according to their interdisciplinary knowledge.

We have also created products – such as our PhosFate waterbasin management support GIS based modelling software for erosion reduction and fighting against eutrophication used in Switzerland, China, Lebanon, Albania, Hungary, Romania; algae counter DF for lakes, which is used in China, Sweden, Israel and in Hungary.

Our aid for city-lakes and freshwater aquaculture has been released recently.

References from four continents the highly developed countries as the EU or China to the least developed countries, as the Solomon Islands for multi-national companies as OiLybia or Holcim to various IFIs as the World Bank or SWISSAid.

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## **BUDAPEST SEWAGE WORKS PTE LTD.**

*Water management/Public utility services*

*Sewage water (Sewer network operation, wastewater treatment, bioenergy production, flood and inland water protection)*

*Design; Implementation; Operations; Business consulting; Engineering*

The 170-year-old Fővárosi Csatornázási Művek Zrt., or in English the Budapest Sewage Works Pte Ltd. (BSW Pte Ltd.) is the largest environmental management company in Hungary. The owners of the BSW Pte Ltd., among others, the Municipality of Budapest and Veolia as the global leader in environmental services.

BSW Pte Ltd. operates the sewage network of more than 6,000 km in Budapest, the capital with a population of 1.7 million inhabitants, 191 pumping stations, 2 wastewater treatment plants which are fully self-sufficient in point of electricity and heat. In case of floods, our Company also responsible for flood protection works along an approximately 90 km long embankment section of the River Danube. Our operational references (supervision, technical inspection, operational optimization, development proposal, sewer inspection and cleaning works, consulting, training) are available at Romania, Ukraine, Bulgaria, Kazakhstan, Scotland and Australia.

Beside the operational experiences BSW Pte Ltd. also has the ability with partly involvement of subcontractors to implement the sludge line of a wastewater treatment plant (providing detailed design works, self-made main technological machineries, biogas plant construction with organic waste receiving co-digestion, trial period- or long term operation). These implementing references are available at four county town's wastewater treatment plants at Hungary.

BSW Pte Ltd. has significant co-operation experiences with international financial institutions (World Bank, EU Cohesion Fund) due to the Municipality of Budapest's own investments on the field of wastewater collection and treatment.

BSW Pte Ltd. considers its mission to lead the establishment of environment friendly technologies and developments, notably the production of biogas, through its activities and apart from its wastewater collection and treatment core activities. All employees of the company wish to serve the needs and requirements of the communities they serve in compliance with the technical, social and human requirements of the 21st century, at a high level, in a customer friendly and innovative way.

Potential partners of BSW Pte Ltd. work on the area of sewage water as operational companies or owner authorities and they would like to improve the quality of their services. We offer our theoretical knowledge and practical experience for our potential partners as consortium member or sub-contractor.

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**EKOSZVÍT CENTER KFT**  
**Branch office of EKOTON Industrial Group**

*Production of equipment for wastewater treatment and sludge dewatering*

Production base of «Ekoton» company is three powerful plants, equipped with the latest technology of modern production, capable to manufacture serial products and to solve almost any problem of the production of the nonstandard equipment. One of the main advantages of our company, which gives us preferences on our markets, is being close and responsive to the customers for many years. Responsibility of the company is not only the equipment supply; we try to stay with each customer making service of our equipment. Good skilled engineering staff, which is about 30 people gives us a possibility to develop our products making them better and better every year. Company`s R&D center gets about 5 patents annually for innovative developments and improvements.

**Offices and production**

Ełk, Poland – Headquarter, production office  
Kharkov, Ukraine - Production office, engineering center  
Belgorod, Russia – production office  
Vilnius, Lithuania – branch office  
Budapest, Hungary – branch office  
Moscow, Russia – branch office

**Production facilities**

Ełk, Poland – 6000 sq.m.  
Kharkov (Ukraine) – 7000 sq.m.  
Belgorod (Russia) – 4000 sq.m.

**Staff**

285 employees

**Income for the last 3 years**

54 millions USD

**Clients**

More than 1 000 enterprises

**References**

Belarus, Bulgaria, China, Hungary, India, Israel, Kazakhstan, Poland, Latvia, Moldova, Netherlands, Philippines, Russia, Saudi Arabia, Turkmenistan, Ukraine, United Arab Emirates, Uzbekistan and Vietnam.

## The equipment produced

- Mechanized screens:
  - Rake type bar screens
  - Step type screens
  - Hook type screens
  - Brush type drum screens
  - Drum type screens with triangle profile
  - Screw screens
  - Grinding screens «Grizzly»
  - Waste grinders
- Conveyors
  - Screw conveyors
- Presses
  - Screw compacting presses
- Grit chambers
  - Tangential grit chambers
- Rectangular scrapers EKOTON-PROBIG
- Combined units
  - Complex for Mechanical Wastewater treatment M-Combi (fine screen with aerated grit chamber)
- Equipment for clarifiers
- Sludge scrapers for radial and rectangular clarifiers
  - Suction scrapers for radial and rectangular clarifiers
  - Clarifiers trays, weirs, semisubmersible boards, central cups, davits
- Slide gates (penstocks)
- Aeration systems (tubular diffusers)
- DAF-units and physicochemical treatment complexes
- Equipment for mechanical sludge dewatering
  - Belt filter presses
  - Chamber filter presses
  - Sludge thickeners
  - Screw dehydrators EKOTON-TSURUMI
  - Full-automatic flocculent solution preparation systems «SMART Mix»

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## **HUNGARIAN WATER CLUSTER**

*The activities of our member companies cover almost the entire scope of the water industry*

The Hungarian Water Cluster was established in 2008 to collect Hungarian companies from different fields of the water industry in order to unite their expertise, knowledge, capacity and vitality, as well as to offer complex solutions in water issues to potential partners abroad. The solutions offered by us are customized to individual and specific local requirements. Our activities cover the whole scale of the water industry. We currently have 30 member companies.

Our management has a significant role in the leadership of Hungarian (HWA Hungarian Water Association, HWUA Hungarian Water Utility Association), and international (EWA European Water Association, IAWD The International Association of Water Supply Companies in the Danube River Catchment Area, ASEM Water Asia – Europe Meeting Water Resources Research & Development Centre) professional organisations. The representatives of our member companies are regular participants of the business delegations accompanying the international meetings of the Hungarian Government.

We at the Hungarian Water Cluster offer world-class solutions from a single source in every field of the water industry.

In the area of water treatment, we design, construct and reconstruct water treatment plants, different structures, utility networks and wells. We provide water-loss analysis, and mobile water treatment equipment.

In the field of wastewater, we design, construct and reconstruct municipal and industrial wastewater treatment plants, municipal and industrial drainage systems. We also carry out biotechnological research.

We manage storm water, flood, and inland water and ground water problems. We are the frontrunners of the market in storm water management (drainage, storage, infiltration) and we offer flood protection solutions.

Our engineering companies are aware of, and apply successfully, the advanced technologies of the water industry.

We offer solutions for geotechnical problems (erosion control, retaining walls, mass stabilization) and for treatment of contaminated groundwater.

We have members with extensive experiences in the operation of water and wastewater plants.

We offer business consulting, project management and IT services.

Our member companies have more than 30 patented products and technologies.

The member companies of the Hungarian Water Cluster have references in almost 50 countries.

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## **HUNGARIAN WATER ASSOCIATION**

*Municipal water and wastewater management, professional organization, knowledge transfer, cooperation*

The Hungarian Water Association was founded in 1997. The Association has around 300 individual, institutional, local governmental, utility and company members. The members are mostly designers, operators, experts, students and professors from different institutions, universities and business entities dealing with municipal water and wastewater management, but we also focus on the professionals of the local governments and partner organizations.

The main activities and objectives of the Association are:

- Support technical and scientific cooperation between members
- Provide practical, technical and scientific information for members, municipalities and authorities
- Strengthen the cooperation with decision makers in the public water sector
- Cooperate with other civil local and international organizations in water related questions
- Strengthen the exchange of experiences between regions and neighbouring associations and support the integration of the Hungarian water sector into the international professional network
- Organizing national and international conferences
- Support and integrate young scientists
- Develop, edit, distribute and provide educational services for technical and cost comparison guidelines

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## **EXIMBANK**

### *Financing and insurance*

The objective of the Hungarian Export-Import Bank Plc. (Eximbank) and the Hungarian Export Credit Insurance Plc. (MEHIB) is to serve Hungarian exporters through the provision of effective financing and insurance facilities. Acting as a tool for providing economic-policy incentive, the mission of Eximbank and MEHIB is to support Hungarian exporting enterprises in facilitating the retention of jobs, growth in employment and an expansion of Hungary's export capacities. The state-owned Eximbank and MEHIB perform the tasks of Hungary's export credit agency, which are regulated by the legislative frameworks of the OECD and the EU, with the basic objective of facilitating the sale of Hungarian goods and services in foreign markets. The Bank and the Insurer, which operate within an integrated framework, carry out their duties with a shared organisation and corporate identity, under the name of EXIM.

EXIM's objective is – while assessing and channelling the needs of exporters – to provide a coherent range of lending, guarantee and insurance products that cover the entire spectrum of export activity, from production through manufacturing to the support of the sales process. With its new products it is also capable of providing financing and insurance for the supplier processes and chains that precede the export activity proper. Another task of Eximbank and MEHIB is to facilitate growth in export-oriented investments and capital projects. In this way business enterprises can be motivated, as partners, to have an interest in boosting their existing production capacities, and to be able to expand their product range and target additional export markets.

In December 2012 Eximbank set up an international bond issuance program. As a result of the successful bond issue, besides the state backing required for the achievement of strategic objectives, the stable and favourable structure of funds necessary for the financing activity is now ensured, in its entirety, by market resources. EXIM is not a competitor to Hungary's commercial banks, but seeks to forge strategic partnerships with the financial institutions, collaborating with them in offering loans to exporting enterprises at favourable interest rates, in the form of refinancing credit lines. EXIM focuses particularly on financing and insuring risks that the commercial banks are unable to take on.

The Foreign Economic Strategy of the Hungarian Government gives priority to supporting domestic export activity and seeking out new export markets. The aim is to enable enterprises operating in Hungary, by providing incentives for the export of Hungarian goods and services, to leverage their export opportunities as fully as possible, boosting their competitiveness in foreign markets. The means at EXIM's disposal make it possible to widely fulfil this objective.

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# EMPRESAS ESPAÑOLAS

## EPTISA

*Engineering, consultancy, information technologies in transport, water, environment, building, energy and Industry*

Eptisa is a multinational company specialised in engineering, consultancy, information technologies and institutional, economic and social development, clearly oriented towards service to the client, carrying out the most complex projects in the fields of Transport, Water and the Environment, Building, Energy and Industry; applying technological knowledge, creativity, innovation and the latest technologies to progress towards sustainable development of society, to the benefit of people's welfare.

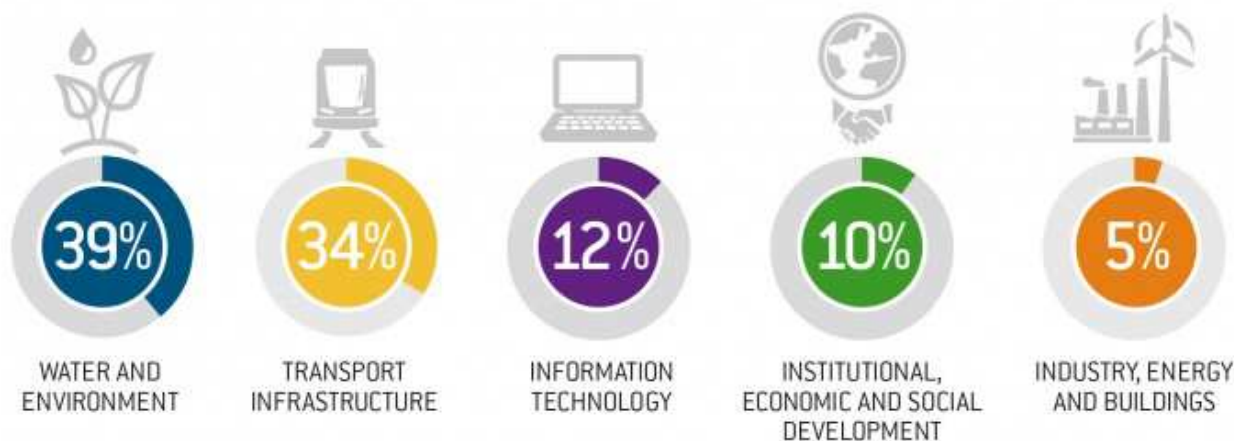
We are a multinational company specialised in engineering, consultancy, information technologies and institutional, economic and social development with 60 years of experience.

### 2016 Figures



The quality of our services has led us to become a reference in the sectors of Transport, Water, Environment, Industry, Energy, Buildings, and Institutional, Economic and Social Development.

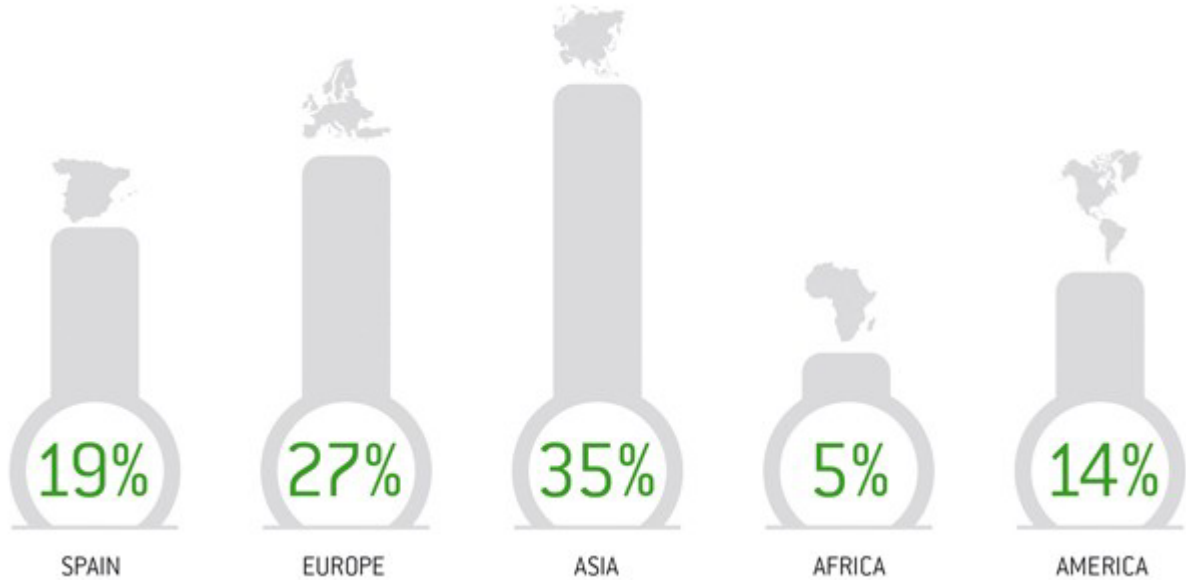
### ACTIVITY BY SECTORS



We apply the technical know-how, innovation and our project management capacity for the benefit of the client and the sustainable development of the society.

The local adaptation and the quality of our services are the key elements of our strategy, allowing to grow and expand the scope of our projects in response to the evolution of our clients' needs.

### GEOGRAPHIC DISTRIBUTION



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## **CANAL ISABEL II.**

*Supply of water, sanitation, water services and water works*

Canal de Isabel II is a Community of Madrid public company; the successor of the public water management agency Canal de Isabel II, created in 1851. It is legally a limited company with 100% public social capital. Its shareholders are the Community of Madrid (82.4%) and 111 city councils throughout the Community (17.6%).

The social purpose of the company is the supply of water, sanitation, water services and water works, in accordance with Law 17/1984, of December 20th, regulating Water Supply and Sanitation activities in the Community Madrid and other applicable regulations, ensuring, in all cases, water supply in quantity and quality for its customers as a result of the management of its complete cycle (collection, purification, quality monitoring, transportation, distribution, and treatment of waste water for return to rivers).

To this end, Canal de Isabel II, which currently serves over 6.2 million people in the Community of Madrid and has a turnover of over € 800 million, employs the use of the most modern and efficient technology, and collaborates in the protection of the environment, making it a reference in the sector at regional, national and international levels.

The company is also the Grupo Canal de Isabel II matrix, comprised of several companies located in Spain and Latin America, with a workforce of over 6,100 employees serving over 9.7 million people, and a turnover of over € 1.100million.

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[www.canaldeisabelsegunda.es](http://www.canaldeisabelsegunda.es)

## ACCIONA

### *Infrastructure and renewable energy*

ACCIONA is a leader in providing sustainable solutions for infrastructure and renewable energy projects across the world.

Its offer covers the whole value chain, from design and construction to operation and maintenance. With a presence in more than 40 countries, the Group develops its business activities based on the desire to contribute to economic and social development in the communities in which it operates.

ACCIONA executes its sustainability strategy through a Sustainability Master Plan, a road map containing all the initiatives of the Company in this field. The aim of ACCIONA is to lead the transition towards a low-carbon economy, bringing quality criteria and innovation processes to all projects in order to optimize the efficient use of resources and respect the environment, with the ambition and determination to become a carbon-neutral company from 2016 onwards.

This commitment has been ratified by the inclusion of ACCIONA in the world's top sustainability indexes, such as the FTSE4Good, MSCI Global Climate Index, CDP Climate A List 2017, CDP Water A List 2017, among others.

### Infrastructure

- Construction
- Concessions
- Water
- Industrial

### Energy

ACCIONA S.A.

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Shareholder Office: [inversores@acciona.es](mailto:inversores@acciona.es)

Sustainability: [responsabilidadcorporativa@acciona.es](mailto:responsabilidadcorporativa@acciona.es)

Employment channel: [employmentchannel.acciona.com](http://employmentchannel.acciona.com)

[www.acciona.com](http://www.acciona.com)

## **INDRA**

*Transport & Traffic, Energy and Industry, Public Sector and Healthcare, Financial Services, Security and Defence, Telecom & Media*

Indra is a leading global consulting and technology company, and the technology partner for the core business operations of its clients' businesses throughout the world. It is one of the world's largest providers of proprietary solutions in specific segments of the Transport and Defense markets and a bellwether in Information Technology in Spain and Latin America. The company provides a comprehensive range of high added-value proprietary solutions and cutting-edge services in technology, and a singular culture of reliability, flexibility and adaptability to the needs of its customers.

Indra is a world leader in developing end-to-end technology solutions in fields such as Defense and Security, Transport and Traffic, Energy and Industry, Telecommunications and Media, Financial Services, Electoral Processes, and Public Administrations and Healthcare. Indra's Minsait unit addresses the challenges posed by digital transformation.

Our ordinary business contributes to the creation of wealth by generating solutions and services as well as the distinguishing characteristic: innovation.

Indra we firmly believe that our solutions and services are excellent tools for contributing to development, not only to the benefit of our clients but, in a much wider sense, to the benefit of society in general and the communities where we operate.

Indra has always been committed to developing proprietary technologies and solutions with a differential value for the various sectors in which it operates. This is what provides the company its competitive edge and enables it to penetrate new markets as well as harness the synergies that arise from applying the capabilities developed in one sector across all other sectors.

Indra follows a value creation strategy, offering customers comprehensive management solutions, from consultancy, to project development, integration and implementation, to IT outsourcing and BPO.

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## SUEZ

### *Supply of water, wastewater treatment*

SUEZ, an expert in water and waste for 150 years, is fully engaged in the resource revolution. We use our capacity for innovation and a radical new approach to resource optimization, which exploits the full potential of digital technologies. We want our innovation capacity to encourage recycling, recovering and producing secondary raw materials and alternative resources. We will reach that goal by supporting our customers as they change from a linear model, which over consumes resources, to a circular model, aiming to recycle and recover them for future use.

These resources are essential to life and to our collective future, a fact we, at SUEZ, are deeply connected to. As the leader of the resource revolution, we are committed to creating innovative solutions and sustainable models that create value for our customers. For SUEZ, the resource revolution must be:



circular

Aiming to regenerate resources essential to life and to the future according to the principles of a circular economy.



concrete

Involving tangible and innovative actions to secure resources.



collaborative

Engaging everyone to contribute, each to their full potential, to better manage and secure resources for the future.

SUEZ is a Company for simplified shares with a capital of 2,164,515,760 euros.

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<https://www.suez.com>

## **LIBELIUM**

### *Smart cities*

Libelium offers fully integration from sensor collection to Cloud so that SI, engineering, OEM and telco companies can deploy Smart Cities and IoT projects within minimum time to market by solving the INTEROPERABILITY problem with two hardware and software modular products:

- Waspote (sensor hub): horizontal approach (+100 sensors, +20 communication protocols)
- Meshlium (internet gateway): connects off-the-shelf with many Cloud Platforms
- Highly-configurable through API
- Versatile: same technology can be used in many IoT scenarios (agriculture, water, environment, industrial, etc.)

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## **PROTEC ARISAWA**

### *Pressure vessels*

Protec Arisawa is the global leader for the design and the manufacturing of Fiber Reinforced Plastic Pressure Vessels for membrane filtration systems.

With three production sites located on three different continents and over 40 years of experience in filament winding, Protec Arisawa is your supplier of choice when it comes to selecting high-quality pressure vessels with leading technology.

Our principal objective is, satisfy our customers needs with excellent quality in product and service, offering competitive, personalized and innovative solutions. We will achieve this working as a team in a flexible and organized way. We will build on our experience our “Know How” and our technology.

Gonzalo Ortega

Managing Director Protec Arisawa Europe& Sales Manager Iberia

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## **WAETIC**

*Development and supply equipment for the treatment of water*

We are a young and dynamic company composed by a group of qualified technicians specialized to work nationally and even internationally, with a wide experience in environmental, energy and water sectors, which main activity is the development and supply equipment for the treatment of water also with our own marks which defines the different offered services of engineering and technical assistance for project and works and at the same time with our own Patents of equipment for water treatment and element to be used in the treatment water sector.

Our trades: DFMAguas( Represent the Equipment for Water Treatment) TuCloud (Prive business servers to storage and share document on the cloud) Proffer ( Software for make offers for equipment for water treatment) HopERP (Software for Enterprise Resource Planning)

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## **CYTSA**

### *Consulting services in water engineering and processes innovation*

CYTSA Business Group is an international group dedicated to consulting services in Water Engineering and Processes Innovation and optimization in the public sector.

It is formed by CYTSA and CYTAI.

Our mission is to create a sustainable and growing added value in consulting through creativity and innovation, being aware of our social responsibility gained over years of experience. CYTSA Group's vision is to be the benchmark in professional consulting at national and international level in our business areas. The values that govern this company are ethical behavior, talent management, customer-focused quality excellence and innovation as the driving factor of social change.

Among our strengths we highlight the multidisciplinary team of professionals who make up the company. Highly qualified people with extensive experience and recognition in its activity. 95% of our staff is composed of university graduates with specialized technical profiles.

At Creatividad y Tecnología we see technological innovation as a key factor that leads to business success, increasing the responsiveness to the technological demands and enhancing the culture of innovation and technology watch. To do this, we have a R & D + i Management System that follows the guidelines set by UNE 166002: 2006. We have an integrated Quality and Environment Management System, as established in standards UNE-EN-ISO 9001-2000 "Quality management system. Requirements and UNE-EN-ISO 14000" Environmental management system.

## CYTSA

Creativity and Technology is a Spanish consulting company founded in 1982 with experience in products and services with a high added value. Always with a commitment to high quality and respect for the environment in all our work.

Creatividad y Tecnología provides consulting services in the following areas of expertise:

- Climate change
- Water
- Technology Studies and Business Financing
- Public Sector / Institutional Strengthening
- Earth Sciences and Mining
- BIM / 4.0 Industry / Maintenance

Creatividad y Tecnología is aware of the importance of promoting the transfer of knowledge between University, Business and society in general. For this reason, it has a collaboration network between entities which provides an experience of high added value to our professionals, transmitted through the quality of our work.

At Creatividad y Tecnología we work not only in order to comply with legal aspects such as equality and work-life balance of our staff, but we also strive to comply with the ethical code. These features, among others, are the basis of our reputation and define our identity.

## CYTAI

Our branch in Latin America. Oriented mainly to Mexico and Latin American countries. It focuses on solving problems related to water management, institutional development and

innovation in companies and the public sector through the implementation of customized technological solutions for each client.

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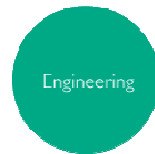
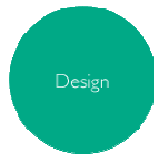
[cytsa@cytsa.com](mailto:cytsa@cytsa.com)

## **ALMARWATER**

*Expertise and solutions in water infrastructure development*

Almar Water Solutions is a provider of specialist expertise and solutions in water infrastructure development, including financing, design and operation. Its dedicated and experienced team draws on over two decades of worldwide experience in the industry and is today continuously working to develop integrated solutions to serve the growing needs of both municipal and industrial sectors.

Areas of activity



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## **INCLAM GROUP**

### *Water engineering*

The Group's activity is comprised within two business lines: water engineering and environment.

Water engineering comprises a wide range of services, a comprehensive vision of which is provided at the different sections of this website. The Group has a long experience in the development of these types of projects, which are grouped into:

- Hydrology and hydraulics
- Planning and studies
- Risk management
- Projects
- Work management
- Institutional support

As part of our vocation to provide comprehensive services to our clients, we point out the business line related to turnkey projects, EPC (engineering, procurement and construction), where we provide supply, treatment, desalination and hydraulic work solutions. Ideal information management provides very positive direct results. We become involved in this idea by providing advisory services and implementing systems favouring effective management.

Specifically, we specialise in:

- Information systems
- Control networks
- Decision support systems
- Governance
- Early warning systems

The Group is aimed at achieving a clean growth that would make sustainable development feasible. Through INCLAM CO2, management strategies are developed, which include actions to reduce greenhouse gas emissions and to mitigate its potential impact. The products and services that we make available to our clients include:

- CO2 strategic consulting
- Mitigation plans and projects
- Adaptation strategies
- Brokerage & Trading

The technological component has always been part of the activity performed by the Group, a pioneer in the development of water engineering software. Thanks to its experience in the industry, the Group develops business software with the capacity to provide solutions to sector needs.

The Group's technical team and IT engineers have focused all their efforts on the technological progress of the sector, which has given rise to the development of systems and applications while improving productivity and enhancing resources, thus guaranteeing operability and client satisfaction

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## **SARRALLE/SARTECH**

### *Innovative Solutions for Water Treatment*

At SARRALLE we offer innovative engineering and construction solutions for water treatment to improve the quality of water to make it more acceptable for the industrial water supply, drinking, irrigation, etc.

Water treatment removes contaminants and undesirable components, or reduces their concentration so that the water becomes fit for its desired end-use.

Our Engineering&Construction Services, and our agreement and cooperation with a technologist companies as INCIVE in Spain , offer you:

- **Industrial Water Treatment plants:** industrial water cooling and cleaning treatment.
- **Urban water treatment plants:** pre and post urban water treatment, storage system ( tanks and pump station ), water supply and drainage system.

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## **FCC**

### *Quality of life*

FCC has three main lines of activity, these all relate to a balanced business model:

- Environment - manages and treats domestic and industrial waste, it is also responsible for street cleaning and maintenance of parks and gardens, among other activities.
- Water - operates under the brand Aqualia, it deals with the full water cycle, from the provision of supply to homes and businesses, to major infrastructure.
- Infrastructure - the Group operates through FCC Construcción and Cementos Portland Valderrivas, the latter is a listed company and a leading producer of cement in Spain. FCC Construcción designs, develops and maintains infrastructure across the world.

FCC Group has developed its business model based on profitability and long term sustainability, it is also a pioneer in ensuring that its works benefit local communities and help to improve the quality of life for all citizens.

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