ISSUE
19
July
August
2013

# Communication Network

News for the people of FCC

ESTHER KOPLOWITZ, distinguished with the Grand Cross of the Civil Order of Environmental Merit

A.S.A. also leaders in mud

Reforestation day at the Puente de las Américas (Panama)

# Winners of the 3rd Edition of the International Eco-Efficiency Awards

## Colleagues distinguished for their great ideas

Warm-up exercises before the start of the work day



New structure and functions of the Group's central services

Follow

# Summary

## Cover

Winners of the 3rd Edition of the International Eco-Efficiency Awards

## Corporate

FCC gives out the International Eco-Efficiency Awards
Pág 4
New structure and functions of the Group's central services
Pág 6
You are also part of the brand
Pág 8

## Business

FCC to built Mersey bridge in Liverpool
Pág 12
The bridge over the Danube River opens to traffic
Pág 14
International visit to the mine and the waste warehouse at Heilbronn (Germany)
Pág 19

## People

Warm-up exercises before starting work, an example worth following
Pág 24

## Social Responsibility

Reforestation day at Puente de las Américas (Panama)
Pág 32
FCC Volunteers: At the "Fridays at the Residence" events
Pág 34

## Well-being

FCC, certified as a healthy company
Pág 38
Aqualia 2012 Prevention Awards ceremony
Pág 40
Exchange of safety, health, and well being experiences and good practices with Europe
Pág 43

## Knowledge

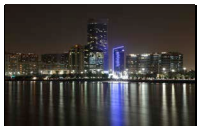
Alcoy, subject of a study for optimising energy consumption
Pág 48

## Guest column

Healthy workers, healthy companies
Pág 50

## The Place

The FCC crew is working on decontaminating the river bed of the Ebro River in Flix (Tarragona)
Pág 52



## Communities

Abu Dhabi
Pág 60

3rd Edition

# FCC gives out the International Eco-Efficiency Awards

The great eco-efficient ideas of María Herrando Zapater, from FCC Energía, and of Alberto Pradillo Roberti and Miguel Hernández Hernández, from FCC Construcción, were deserving of this recognition.

We want to promote eco-efficiency among the team and achieve, as in the previous edition, a high rate of participation that contributes to making eco-efficiency a differentiating trait of our company, and that it becomes part of FCC's day-to-day.

A concept was created for this edition of the award that represents the objective sought by FCC with this initiative that was launched three years ago. "Ideas that change the World" was born with the intention of encouraging all employees to participate and to be aware that their ideas or actions can, in fact, change the world.

The International Eco-Efficiency Awards ceremony was held at the FCC head offices in Las Tablas (Madrid). Esther Koplowitz, FCC's chairman, presided the event jointly with Juan Béjar, CEO of FCC and by the managing director Alicia Alcocer Koplowitz. They were also accompanied by the secretary general, the CEOs of the various business units, and by the managing of the central services and business units.

FCC has the objective of having eco-efficiency become one of the differentiating traits of the company. This third edition was marked by the high international participation. Ideas were submitted by workers in Austria, Hungary, and the United States, among other countries and, for the first time, employees from different company areas have collaborated, taking advantage of the knowledge of each of their respective areas in order to submit common projects, thereby generating synergies among these business areas.

"One of FCC's key objectives is for eco-efficiency to become a distinctive trait of the Company"

The objective of this contest is to reward the initiatives or actions of FCC employees that contribute to sustainable development, the implementation of the appropriate measures for the use of natural resources, and the start-up of new processes.

The award-winners were:

- Alberto Pradillo Roberti and Miguel Hernández Hernández, from FCC Construcción, for their project: Waste recovery in demolition projects.

- María Herrando Zapater, from FCC Energía for the initiative: Combined photovoltaic and thermosolar generation for our buildings.

Diplomas were also given to runner-up projects:

- Mentality Water App, submitted by Bernabé Hinojosa Lopera, from FCC Aqualia.

- Sharing Environmental Data to Reflect Urban Sustainability (S.E.D.R.U.S.) platform submitted by FCC Medio Ambiente employees Catherine Milhau, Patricia Ana Serrano Héctor, Isabel Mañeru Puig, Elena Mínguez Castro, Susana Cea Berrueco and Gabriel Morales Barreras, and by Jaime Ramón Quintilla, from Information Systems and Technologies.

- Manufacturing of iron and steel aggregates from recycled and recovered slags from steelworks, submitted by Enrique Cordero Fernández, Carlos Martín Ortiz and Roberto Rivero Eguía, from FCC Ámbito.

Alberto Pradillo Roberti, from FCC Construcción, the winner of this edition.

María Herrando Zapater, from FCC Energía, winner in this 3rd edition of the awards.

This year, the prize in these International Eco-Efficiency Awards consisted of a five-day, all expenses paid trip for two people to the Maya Riviera

Link to Juan Béjar's blog:
http://fccnet/corp/ES/pre/bjv/default.aspx

Link video

# New structure and functions of the Group's central services

> "The divisions will now have to reorganize their regions and branch offices"

The FCC Board of Directors approved the proposal submitted by the Vice-Chairman and CEO, Juan Bejar, of the new organizational structure of central services. The purpose of the reorganization is to give business managers the capacity to make decisions on the functions and resources that have a direct bearing on the gross operating income (EBITDA) of their respective units.

In accordance with the new philosophy, corporate units will be called "central services". The name itself explains the scope of the functions supporting the business. These units will be in charge of defining the general policies and of ensuring that these are complied with.

Reporting directly to the CEO, the central services will include the General Secretariat (legal counsel) and the general corporate departments of Administration (tax, accounting, and administrative processes), Finance (treasury, financing, management and budget control, and investor relations), Organization (human resources, information systems and technologies, and aggregate procurement), Internal Audit (risk management), and Communication and Corporate Social Responsibility.

In connection with the foregoing, the new organizational chart implies that Finance will be in charge of management; Organization will include human resources, information systems and technologies and aggregate procurement, and Internal Audit will now be responsible for risk management.

> “Decentralising several functions such as procurement management, human resources, and legal counsel”

The objective is to slash structural costs by at least 140 million euros on top of the reduction already achieved throughout the Group, including the new adjustment plan that was implemented recently by Cementos Portland Valderrivas.

The divisions will now have to reorganize their regions and branch offices.

Along these lines, the Board approved the integration of the Versia and Industrial Waste activities in the Environmental Services division. In Construction, deployment is underway to concentrate in the countries and projects where the group can capitalise its competitive edge. A substantial reduction in the lumber of legally established companies will be carried out in Services and in Construction.

The new organization implies the decentralisation of certain functions, such as procurement and human resources management, and legal counsel. The objective is for the business units to be totally responsible for their profit and loss accounts. The greater autonomy of managers is compatible with the respect for general policies and management models to be defined by the Group’s Steering Committee.

Management control, which will now be transferred from the Corporate Administration Department to Finance, will be redesigned and shored up so that it will be capable of strictly monitoring the results of each business area and preventing situations such as the one at Alpine.

## Cost reduction and personnel downsizing

The new model will generate structural cost and personnel savings in the central services and in the various business units.

# You are also part of the brand

## The Brand & You project designed and developed by the Marketing and Brand Corporate Division makes us all part of this initiative.

The comparison of the brand image with the piggy-bank marketing simile used in marketing schools throughout the world – is the best way of making us understand the real meaning of a brand.

A piggy bank without any savings is nothing; it is simply an object. A brand without attributes is the same; simply a name. In order for the piggy bank to have any value, it is necessary to feed it coins on a regular basis. In order for the brand to represent something, it has to be endowed with attributes, visibility values, every day by all who work in the company or the organization which it represents.

FCC's strategic plan contemplates the need of working for and in favour of a global brand, one which is strong recognised, and which makes us proud of being a part of the company. The idea behind this is to increase its value, not just vis-à-vis shareholders, but also our clients which, at the end, are our neighbours.

Why now? We are all aware that the world, society, the market, are currently in a transformation process and we must meet this challenge. If we are not strong if we have no recognition, and if FCC is not perceived as what it really is, one of the leading companies that contributes value in the cities where it operates, the efforts will be that much more difficult.

Why me? You are the company and whatever you do, you represent all of us. It does not matter if you work in an office or in the field, that you meet with clients or work in functional departments; your contribution helps to fill up the piggy bank.

All the above explains and is behind the BRAND & YOU project. Based on the "Brand Academy" project, B&W aims to contribute to developing our global FCC brand as what it should really be, a company asset and a source of pride for all of us.

B&W is part of the strategy for creating and developing a global FCC brand. Before launching this initiative, the GEM group (Strategic Brand Group) analysed the situation and defined the method and application for the FCC brand as explained in an article published in a previous edition of our magazine.

## A relational model

The following outline will help us to understand our "relational model" and how it works, that is, how FCC interrelates with its clients, with clients understood to be those who benefit from what we do.

It details graphically that FCC is awarded a construction project by an organization, such as a viaduct, a waste collection service, or water management. The final beneficiary of what we do, however, is the citizen. His opinion will be very important for us and also for the organization or company that awarded the contract to us, particularly if it is sensitive to public opinion. "FCC Citizen Services" synthesises this concept. In terms of brand, the better they know us, the more that they will value or services. The more they value us, the better we will be able to sell and the more we differentiate, the better our positioning in comparison with our competitors.

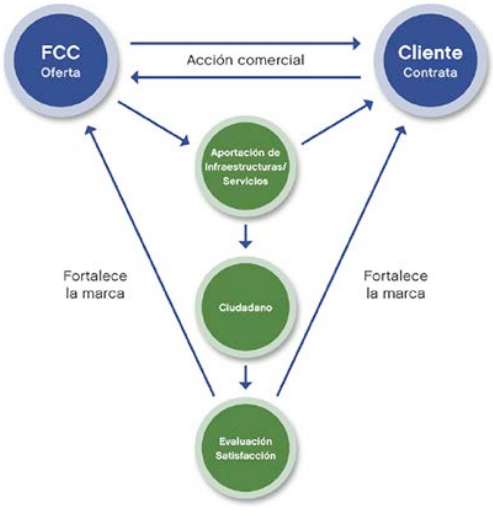
The aim of the B&G project is for a group of people from our company to become familiar, in a positive yet professional way, with the process of creating, formalising, disseminating, and enriching the FCC brand so that it is able to transmit our values and capabilities on its own. BRAND&YOU will allow us to disseminate the achievements among the other members of FCC.

Four groups will be created consisting of FCC employees from the various bu-

## Different stages

Transformation, however, is not automatic. There are several stages ahead in this process:

- It is necessary to understand the reason behind this. Distancing ourselves from our everyday tasks to refocus on the vision of the company where we work requires that we all make an effort. This is not something reserved solely for senior management.
- All efforts must have an objective. To become part of a project, it is necessary to feel that you are part of the horizon towards which the company focuses this project.
- Applying a new approach in the day-to-day tasks will require some adjustments. Efforts in this respect must be unanimous.
- Creating a favourable climate in the process of presenting a global brand that combines all of the Group's capabilities, is what will give us the strength and consistency. The multiplying effect of this positive approach is unquestionable..




siness units, hierarchical levels, and geographical origin. It will be a representative group that will be playing a very relevant role; the in-house dissemination of the global FCC brand. They will receive training on brand management; will learn team management skills, and those required for disseminating the message. They will represent a role technically known as Brand Ambassadors. As in-house catalysts, they will make a significant contribution to ensure that in the future; our brand is solid, associated with recognisable values, and business-generating. Behind this effort is the conviction that no one has more credibility, in-house and externally, than those of us who are part of the Company; that all of us are privileged channels of communication.

This new brand management approach is a challenge that all of us must face and also requires great efforts. The objective, however, is two-pronged: achieve a stronger and more competitive positioning in the national and international markets; and achieve a better future for all who are part of the FCC Group.

# Agreement with Hospital Carlos III on international vaccination

FCC entered into a collaboration agreement with Hospital Carlos III of Madrid to provide the necessary aid and assistance to travellers and expatriates in our Company at the Travel Unit and the Tropical Disease Section, a reference institution with one of the oldest and most experienced tropical disease unit.

Fernando Carrillo, managing director of Carlos III, and Emilio Hermida, corporate director of the Employee Services Human Resources Department, signed the agreement at the hospital's facilities accompanied by Carmen Yolanda, medical director, and Sabino Puentes, the head of the Tropical Medicine Unit, both members of the Carlos III Hospital staff, and Juan Carlos Sáez de Rus, the Manager of FCC's Occupational Safety, Health, and Welfare, and Rafael Echevarría de Rada, the manager of FCC's Medical Services.

The service is aimed at three different types of user who are part of this Group and who will benefit from personalised care, fast and highly specialised.

- Individualised pre-travel check-up (advice for travellers), checking the vaccination status, possible allergies, diseases, vaccinations and prophylaxis, among other healthcare measures.
- Post-travel visit, without acute or urgent symptoms with the necessary tests and explorations.
- Post-travel visit, with acute/urgent or priority symptoms, also including the necessary analyses and tests.

### Advantages for all

This agreement contributes more advantages to our Company's international strategy for all FCC employees and family members, who can also benefit from this service, who travel for other than professional reasons.

Anyone who wants to benefit from this service can contact FCC's Medical Services (Telephone, Madrid, 91 314 2429; Barcelona, 93 352 50 61) which will be pleased to handle all queries.

# Sara Megía Recio, deputy manager of the chairman's office

At the proposal of Esther Koplowitz, Chairman of the FCC Board of Directors and with the favourable opinion of the Appointments and Remuneration Committee, Sara Megía Recio was named deputy manager of the Chairman's Office.

Sara Megía has a degree in Business Management and Administration from Universidad Autónoma de Madrid and a Master's degree from ESIC in Marketing Management and Commercial Management. She joined FCC in 2006 and since 2007 has been acting as the deputy director of the Internal Audit Corporate Department in the international area. She previously worked in financial audit at PwC.

# Esther Koplowitz,

## distinguished with the Grand Cross of the Civil Order of Environmental Merit

The Spanish Cabinet, at the proposal of the Ministry of Agriculture, Food and the Environment, has distinguished Esther Koplowitz with the Grand Cross of the Civil Order of Environmental Merit in recognition of "her contribution to defence of the environment in her role as the Group's principal shareholder and through the Esther Koplowitz Foundation".

The Cabinet underlined FCC's activities in waste management, water, cement and construction and its ongoing efforts to reduce $CO_2$ emissions in its industrial processes, together with Group-wide policy to respect the environment.

# New chairman of Fundación Madrid Vivo

The board of trustees of Fundación Madrid Vivo has appointed Esther Koplowitz as the new chairperson of the institution replacing the vacancy left by the diseased Íñigo de Oriol.

The appointment was made during the meeting of the board of trustees where Emilio Botín, chairman of the Santander Group and Juan Miguel Villar Mir, CEO of OHL, were named vice-chairmen of the foundation. The lawyer, Javier Cremades will remain in his post as secretary general of the foundation.

The new projects of Fundación Madrid Vivo for the next few years were also detailed in the board of trustees meeting. These projects will focus on the foundation's three key areas, as defined in 2011.

Hence, in the field of college education, the foundation supports Universidad de San Dámaso with which it entered into a collaboration agreement. This university is the only religious centre of learning outside of Italy where courses are given in Spanish, as specified by Fundación Madrid Vivo.

In the social area, it will provide support to large families by implementing several measures, such as an annual prize for entities supporting these families, the celebration of the 1st National Salon for Large Families, jointly with the Spanish Federation of Large Families (FEFN, Spanish acronym) , as well as other actions to highlight the social contribution of families to society.

As to cultural issues, Fundación Madrid Vivo is currently working on developing an exhibit project, to be inaugurated most probably in the Autumn of 2014, to highlight the role of the Church n society and its contribution to the various fields of learning, culture, and its social work in benefit of the most disadvantaged members of the community.

The meeting of the board of trustees was held at the residence of the Cardinal-Archbishop of Madrid, Rouco Varela, honorary chairman of the Foundation. Several of the foundation's sponsors were present at the event, including Ángel Ron, the chairman of Banco Popular, and David Álvarez Díez, chairman of Grupo Eulen.

# FCC to built Mersey bridge in Liverpool

The 700 million euro contract is its largest project in the United Kingdom

FCC has been awarded the contract to design, build, finance, maintain and operate the Mersey Gateway Bridge in Liverpool (UK). Worth 700 million euro, it is FCC's largest-ever contract in the British Isles.

The new bridge will be 2.13 kilometres long and carry approximately 80,000 vehicles per day. Bridge construction is expected to commence late this year and to last three-and-a-half years; it is scheduled to be opened to traffic in the first half of 2017.

FCC, the Citizen Services Group, is a member of the two winning consortia (concession and construction). Its partners are Bilfinger, Sanef and Macquarie, in the con-

> "More than 80,000 vehicles will be using the bridge on a daily basis"

cession consortium, and Samsung CT and Kier, in construction. Other finalists for the contract included multinational companies such as Balfour Beatty, Bouygues, Hochtief and Iridium.

## The project

FCC will build the new Mersey Gateway Bridge, measuring over 2 kilometres in length, to the east of the Silver Jubilee Bridge, which was inaugurated in the 1960s and is experiencing severe traffic congestion.

The core of the contract is the construction of the bridge itself, which will measure 1 kilometre in length. The cable-stayed structure will be 42 metres wide and have a maximum height of 125 metres. The project also includes upgrading 7 kilometres of access roads, building 2.5 kilometres of new toll road, and upgrading 4.5 km of toll roads, as well other communication links.

For further information, go to:

http://www.fcc.es/fccweb/actualidad/CSCP079856.html?iddc=CSCP079856

# The bridge over the Danube River opens to traffic

## Connecting Bulgaria and Romania, it was built by FCC

> “Work on the project, which connects Vidin (Bulgaria) and Calafat (Romania) lasted six years”

FCC opened traffic on the Vidin-Calafat bridge, which links Bulgaria and Romania and reflects notable progress in connecting the two countries. This bridge, which took six years to build, represents an investment of 275 million euro and was financed in part by the European Union. The project was promoted by the Bulgarian Ministry of Transport, Information Technology and Communications.

The bridge, which is 1.9 kilometres long, is unique in that it allows for both road and rail traffic. Both cities will now be connected by the bridge comprising a four-lane motorway, a bike path, two pedestrian walkways and central railway tracks.

FCC also built the railway station accesses, which include a new goods station, the refurbishment of an existing passenger station and 17 kilometres of new railway track. According to both governments, the bridge will be used by more than 100,000 vehicles each year.

The new structure will be managed by a Bulgarian-Romanian joint venture. This transport link will channel all goods and passenger traffic between southern Europe (Greece, Macedonia and Turkey) and the north (Germany, Poland, Czech Republic, Slovakia and Hungary) without passing through non-EU countries.

The bridge also reduces travel time between the two countries. Previously, Calafat and Vidin were only connected by a ferry, which didn’t run until it was fully loaded with trucks. Moreover, the journey and customs procedures lasted up to three hours; with the new bridge, the travel time will be less than 15 minutes.

Of the 275 million euro budget, Bulgaria covered 225 million euro and Romania 50 million euro. This project created a thousand jobs, of which around three-quarters were filled by Bulgarian workers.

The Prime Ministers of both countries, Plamen Oresharski from Bulgaria and Victor Ponta from Romania, attended the inauguration, along with Johannes Han, EU Com-

### 100,000 vehicles per year

Users will pay a toll of six euros. Of this amount, 83% of the profit will go to the Hungarian side and the remaining sum to Romania. According to the Rumanian Government’s estimates, more than 100,000 vehicles will ride over the 1,971 metres of the bridge each year.

Sebastian, the first worker hired by FCC in Bulgaria, was in charge of cutting the ribbon at the inauguration ceremony.

> “The budget for the project amounted to 275 million euros and was partly subsidised with EU funds”

missioner for Regional Policy; José Luis Tapia, Spanish Ambassador to Bulgaria; Fernando Moreno, Chairman of FCC Construction; and Javier Lázaro, FCC’s Deputy General Director of Spain and Algeria and head of this project.

## More Europe

Fernando Moreno, chairman of FCC Construction, highlighted that the: “new bridge is a shining example of European construction, improving the living standards of citizens in both countries and contributing to the development of an economically devitalized area. FCC has put technologically innovative solutions into practice to overcome natural challenges such as the Danube’s massive flow through the two cities.”

Plamen Oresharski highlighted the singularity of the project completed by FCC, the Citizen Services Group, and the advantages that it represents for the people of both countries and for all Europeans. “This bridge strengthens Europe”.

Before this bridge opened, the Ruse Bridge, which will now be revamped, was the only connection between Bulgaria and Romania (in the east, around 55 kilometres from Vidin. The Vidin-Calafat bridge is part of the Pan-European Corridor IV, which runs from Dresden (Germany) to Istanbul (Turkey) and is considered an essential network for the development of transport in the area. This Corridor ends at two major Western European ports: Istanbul (Turkey) and Thessaloniki (Greece).

Link:
The FCC team describes the Vidin bridge project. The video is already available at the fcco website and at Youtube describing FCC team’s work at the Vidin bridge.

It is available in:
Spanish, English, Bulgarian, and Rumanian

# The last four caissons manufactured in Algeria on their way to Brazil

## To be used for the construction of the Açu Port

The caissons will be used for the foundations of the Açu Port jointly with the other five caissons already shipped to Brazil in mid April to start work at the Brazilian harbour located 315 kilometres north of Rio de Janeiro.

The rectangular 45 metre-long, 24 metre wide, and 18 metre tall caissons have a volume of 3,700 cubic meters of concrete and weigh 10,000 tonnes.
The caissons were loaded on the HYSY 278 semi-submersible vessel owned by the company Dockwise. It was partially submerged about 12 metres for the loading operations and once all the caissons were on board, the vessel emerged to the surface again. The caissons secured to the deck of the vessel using welded steel plates to prevent movement during the journey.

# FCC honoured with the international Green Apple Awards for the construction of a hospital in Enniskillen

## This is the third international prize awarded to this hospital in Northern Ireland

FCC won the Silver Green Apple Award in the category for improvement of the environment and architectural heritage thanks to the construction of the New South West Acute Hospital in Enniskillen (Northern Ireland). The Green Apple awards recognise best environmental practices and are given by the Green Organization, an initiative launched in the United Kingdom in 1994. FCC competed with another 200 candidates for the Green apple Award in the national campaign to select the greenest companies, commissions, and communities in the United Kingdom.

The Green Apple Awards began in 1994 and have become established as the country's major recognition for environmental endeavour among companies, councils, communities and countries. Previous winners include the United Nations, BBC, Balfour Beatty, Carillion, Lafarge, Cemex and Jaguar. The Green Apple award is the second one that was given to this project. Recently, the Engineering News Record magazine, which picks out the best projects worldwide, gave FCC the ENR Global Best Project Awards 2013 merit prize in the health category for the construction of this hospital in Northern Ireland. The project also received other awards as the best designed and most operational project in London, as well as the PPP Bulletin Awards, the price given by PPP magazine in May 2013.

## ENR Magazine award

FCC Construcción received the Merit Award in the Health category at the ENR Global Best Projects 2013 Awards, for the building of the New Acute Hospital for the South West, Enniskillen Hospital, in Northern Ireland.

At the ceremony held in New York on the evening of June 6th, Pedro Carlos Vega, Regional Director of FCC Construcción in the USA, accompanied by Jesús de la Fuente, Development Manager for North America accepted the award from Scott Blair, the Editor of ENR California, who first voiced his praise for the civil engineering company's work on the project at the ceremony held in New York City on 6 June 2013.

These awards are given out by Engineering News-Record (ENR), the leading construction and engineering sector publication. Recognition is given to construction projects based on a number of criteria including safety issues, innovative design solutions, teamwork and response to the challenges involved, contribution to the industry and the community and the quality of the design, construction and craftsmanship.

For further information:
http://www.fccco.es/construccion/actualidad/CSCP080090.html?iddc=CSCP080090

# Aqualia Infrastructures awarded new contract in the Balkans

## Will be building a wastewater treatment plant in Konjic, Bosnia

Aqualia Infrastructures won a new contract in the Balkans for Phase I of the Konjic, Bosnia-Herzegovina wastewater treatment plant. Located between Mostar and Sarajevo, the city has a population of nearly 50,000 people.

Funded by the World Bank and to be executed by Aqualia Infrastructure on its own, the project was awarded by the Ministry of Agriculture and Water Management which plans to put out to tender several wastewater treatment plant projects over the coming months so as to be able to comply with European Union requisites for these types of facilities.

The contract bolsters FCC Aqualia's presence in the Balkans and in Eastern Europe where it is already involved in the execution of several treatment plants in Montenegro and Rumania.

> "Besides this project, it has been involved since 2012 in building another plant in Montenegro"

# New award for the New Cairo (Egypt) wastewater treatment plant

The New Cairo wastewater treatment facility, financed, designed, built and operated by FCC Aqualia, received a new recognition from the international industry, this time by the Executive Vice President and Managing Director of the International Finance Corporation (IFC) and organization attached to the World Bank, and from the Emerging Partnerships publication.

The prize, given in Washington, D.C. during the meeting of the World Bank, is a recognition of FCC Aqualia's plant as the third-best public-private (PPP) partnership in the region encompassing Europe, North Africa, the Middle East and Central Asia.

The other two winners, ahead of FCC Aqualia, were the Queen Alia Airport in Jordan and the Pulkovo Airport in Russia with an initial investment of 900 and 1.5 billion euros, respectively. In the case of New Cairo, the figure totals 200 million euro, underscoring the relevance of additional factors such as the model of the finance arrangement.

Among the other projects submitted which did not make it to the podium were the Slovakia Motorwa, worth an investment of 1.67 billion euros; the Medina Airport in Saudi Arabia (1.2 billion), and a water management contract in Jeddah, also in Saudi Arabia.

This is the fourth prize awarded to FCC Aqualia for this wastewater treatment facility: in 2010 Euromoney Magazine selected it as the "African Water Deal of the Year"; a few months later, the industry warded the Global Water Intelligence award as the "Water Deal of the Year"; and, lastly, a few weeks ago, the World Finance publication named it the "Best Water PPP Project" of North Africa and the Middle East.

In the photograph: on the left, Naoll Mary of FCC Aqualia Concessions in America; Morsi El Sayed Hegazy, Egyptian Minister of Finance; and Jim-Yong Cai, executive vice-president and managing director of IFC.

Link to the Pdf

# Inauguration of La Jurada Sports Centre in Tenerife

The La Jurada Sports Centre in Granadilla de Abona (Tenerife) was inaugurated on 15 May. The sports facility is part of the Island's Swimming Pool Program being developed by Tenerife's local government. It comprises a multi-purpose pool, a gym, activity rooms, and other services. FCC Aqualia was in charge of the building the Sports Centre and will also be responsible for its subsequent management.

Covering an area of more than 3,000 $m^2$, the facility and the sports activities were welcomed with great expectation by the residents as shown by the more than 3,500 applicants and the 324 fans in Facebook.

FCC Aqualia has defined its own management style and has created attractive, peaceful, and natural spaces. The company also offers the most innovative services and activities for all types of population segments. "Sports and health combined, which represent yet another step in modern facilities, well-being, and the future", as mentioned by Jaime González, the mayor of Granadilla de Abona during the inauguration ceremony at the Centre.

All information about the Centre available at www.centrodeportivogranadilla.es

"The 3,000 $m^2$ facility includes a heated pool, activity rooms, and paddle courts"

# FCC Aqualia at the 32nd Technical Seminar of AEAS in San Sebastian

The capital city of Guipúzcoa hosted the 32nd Technical Seminar of the Spanish Water Supply and Sanitation Association (AEAS, Spanish acronym) held at the Congress Palace and the Kursaal Auditorium. Several water management companies, suppliers and institutional clients met at this event, one of the most significant of its kind in the sector.

The opening speeches at the seminar were given by José Antonio Galera, the vice-councillor for the Environment of the Basque Government; Nora Galparsoro, deputy-mayor of San Sebastian, and Roque Guistau, the chairman of AEAS. "The first seminar was also held in San Sebastian 40 years ago", Galparsoro Galera said and also mentioned that "40 years ago, water supply and sanitation in cities was not ensured and thanks to the efforts of the administration and the companies attending this seminar, we are now able to enjoy a continuous and quality service".

The various sessions of the event included a presentation by Mariano Blanco, of FCC Aqualia's International Client Management department. The title of the presentation was "3T methodology of the OECD (rates, taxes and transfers), analysis of finance sources for water in Europe". In addition to its participation in the technical sessions, FCC Aqualia also set up a stand.

View of FCC Aqualia's stand with part of the Company's equipment

# International visit to the mine and the waste warehouse at Heilbronn (Germany)

## Representatives of the Municipal MA 48 Department of Vienna hosted the event

Senior representatives of MA 48 fulfilled their supervision work and went down to the mine and the waste warehouse at Heilbronn. For the past 20 years, MA 48 and .A.S.A. have been collaborating in handling waste from the incinerators of the Austrian capital.

Handling of packed residues underground.

The Delegation of the City of Vienna, MA 48 and .A.S.A. in front of BigBags in the waste storage Heilbronn f.l.t.r. Dr. Laub (.A.S.A. AG), DI Thon (MA 48), Dr. Dörfel (SWS AG), DI Siebenhandl (MA 48), Mrs. Novak (.A.S.A. AG).

Approximately 1.2 million MWh of heat and 81,000 MWh of electricity are produced by the four Viennese waste incineration plants annually. The flue gases are specially filtered and cleaned. For 20 years the local waste management company .A.S.A. Abfall Service AG has been taking care of the incurring flue gas residues for the Municipal Department MA 48 in Vienna. These have since been safely and retrievably stored in the salt mine Heilbronn (Germany). A delegation led by the Directors of the Viennese MA 48 convinced themselves of the high quality and safety of underground disposal during the visit.

"Responsible management of the residual materials is one of the main pillars of our environmental policy," said Josef Thon, Director of MA 48 on the occasion of the visit in Heilbronn. "We closely cooperate with established partners such as .A.S.A. to ensure maximum safety in waste disposal. .A.S.A. is working to our fullest satisfaction".

### Complete isolation from the biosphere

The City of Vienna and .A.S.A. have been working together since 1992: Since then, about 160,000 tons of flue gas cleaning residues (filter cake and fly ashes) of the Viennese incinerators have been deposited retrievably in the underground mines of SWS AG in Heilbronn. "Thus, by increasing scarcity of resources it is possible to use the deposited materials as a source of raw materials and recover contained non-ferrous metals in the future." so Dr. Bertram Laub of .A.S.A.. "Today's waste is our resource of tomorrow." Laub states further.

Until then, the waste materials are stored with complete and permanent isolation from the biosphere in the salt mine. Due to the absolute dryness and impermeability inside the salt rock, the deposition in the digging chambers of Heilbronn grants highest security.

DI Siebenhandl (MA 48) informs himself about exact storage location.

### Transport by rail

The residues are transported environmentally friendly by rail to its interim and final storage. .A.S.A. and SWS AG pay particular attention to the complete documentation of the entire disposal process: origin, transportation, packing, packaging and deposition are accurately recorded and material flows are documented seamlessly through to the exact storage location in the chambers of the mine. Also the fly ashes from the .A.S.A. own incinerator in Zistersdorf are transported by train to SWS AG and deposited there for future exploitation.

.A.S.A. Group based in Himberg near Vienna is the largest waste management company in CEE with more than 4.500 employees. It serves more than 4.7 million inhabitants and disposes of around 4 million tons of waste from commercial and industrial clients annually. In the active salt pit of the Südwestdeutsche Salzwerke AG (SWS AG) about 4 million tons of rock salt is extracted annually. The void volume of the mine is currently around 55 million $m^3$, further 2 million $m^3$ are mined yearly in the salt pit. The digging chambers are connected by a 750 km long underground street and road network

# Wrexham Council and FCC Environment renew contract

## Pass on to the next phase of their waste management contract

### North of Wales

Wrexham is a Welsh village and the capital of the unit authority of Wrexham in northern Wales (United Kingdom).

Wrexham Council and FCC Environment have formally agreed a significant contract variation that will allow the Council to meet the new, more stringent statutory recycling targets that have recently been introduced by the Welsh Government.

This novation will ensure that reliance on landfill disposal is reduced even further in the future thus resulting in both significant environmental and financial benefits to the Council.

This new phase of the Council's waste strategy marks yet another step in the successful development of Wrexham Eco Recycling Park in Bryn Laien in 2009 which is part of the Private Finance Initiative (PFI) alliance between Wrexham Council and FCC Environment.

Thanks to this agreement, the city of Wrexham was able to meet the initial 40% recycling target set by the Welsh Government.

### Biological treatment plant

The new project will see the development of a Mechanical Biological Treatment (MBT) Plant on the Bryn Lane site that will recover recyclate and produce a refuse derived fuel (RDF) from the household residual waste.

Fuel recovered from household residual waste will be delivered to the Ferrybridge facility for the purpose of electricity generation from 2015 onwards.

In the meantime, fuel produced from the MBT facility will be delivered to the new Runcorn Energy from Waste facility under the terms of a S101 Local Government Act agreement with Greater Manchester Waste Disposal Authority and operator Viridor.

Runcorn Energy from Waste will use RDF from Wrexham, Greater Manchester and other contracts to generate up to 70 MW of renewable electricity and up to 51 MW of heat. This will reduce the need for landfill as a waste disposal option by using waste as a resource from which to recover energy.

For Wrexham Council this variation will provide the benefit of saving money, reducing carbon footprint and providing a solution which will meet statutory recycling targets for the long term.

The MBT facility, which has planning permission, is anticipated to be operational in Summer 2014.

The MBT operator, FCC Environment (UK) Ltd, has established a long-term fuel supply agreement with Ferrybridge Multifuel Energy Ltd, a Joint Venture between SSE plc and Wheelabrator Technologies Inc. which is building a £300m, 500,000 tonnes per annum, multifuel electricity generation facility at the SSE Ferrybridge power station site in West Yorkshire. (England).

> “FCC Environment, a leader in recycling and waste management”

# FCC Ámbito to decontaminate the Bailín landfill site in Sabiñánigo (Huesca)

The department of Agriculture, Livestock, and the Environment of the Government of Aragón awarded a 5,707,653 euro contract to a joint-venture in which FCC Ámbito holds a 60% stake for the execution of phase B of the hexachlorocyclohexane (HCH) landfill site in Bailín, Sabiñáñigo (Huesca),

The work to be carried out includes the excavation of the waste deposited at the site (about 177,000 $m^3$), its transfer and treatment at the transfer plant and its final dumping at a new cell which has already been built.

In addition, the project contemplates the upgrading of the underlying ground by removing the affected soil (estimated at an additional 33,000 $m^3$) with the subsequent environmental remediation of this zone.

The landfill site was originally created as a result of the industrial activity of INQUINOSA, a chemical industry situated Sabiñánigo (Huesca) whose main production line consisted of the production of lindane for its marketing as an insecticide.

The manufacturing process generated a very high percentage of non-marketable recalcitrant, carcinogenic, and highly toxic by-products which were classified as hazardous (approximately 66% of the manufacturing process generated waste).

The geological complexity of its location, the waste filtrations in underground waters, and the precarious situation of the HCH landfill site could only be addressed by the only technically and economically viable offering sufficient environmental guarantees: it was necessary to build a new safety cell, dismantle the current landfill site, and transfer the waste to a new cell.

The work to be carried out should be contemplated from the "Environmental Remediation" perspective, that is, and as part of this contract, group of measures aimed at resolving the impact originating from the waste deposited at Bailín's HCH landfill site. All waste that will be dug-up during the dismantling phase will be taken to a treatment area, that is, the transfer plant, where a field laboratory will be available for analytical control.

Each of the different types of materials, depending on their nature, physical state, consistency, and chemical characterisation will be treated separately at the transfer facility.

The treatments for preparing, bottling, transporting, and subsequent disposal of the definitive waste in the cell are specifically designed for each different type of waste.

A geographical database to be created using GIS applications to obtain a 3-dimensional model of the final location of the waste in the new cell based on the typology and physical-chemical characteristics.

# First Ágora Forum on innovation

The Ágora Forum to promote innovation, growth, and encourage public-private collaboration to include private companies pioneer in their sectors was organized by the Barcelona City Council at Universidad Politécnica de Cataluña on 16 May of this year.

The objective of the project is focused on detecting improvement opportunities by the Administration, the University, or the private sector to improve the quality of life of citizens.

The first seminar focused on urban pavements and how to create and maintain the urban infrastructure in acceptable service conditions in an economic restricted environment.

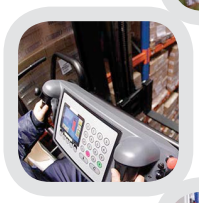
The three presentations made by the municipal directors of Urban Projects, Infrastructures and Investments, and Transport Networks were held at the Aula Magna of the faculty of Civil Engineering. The directors discussed the specificities of urban pavements, the related problems and consequences.

Javier Ainchil Lavín, Technical Director, represented FCC in the experts group in a panel comprising three university professors and two representatives from the engineering and urban materials industries.

The Ágora project plans to continue to organise more seminars throughout the year. The next editions, which will focus on energy efficiency, are currently in the preparation stage.

For the refrigerated goods sector

# FCC Logística's Cross-Docking service in Portugal



FCC Logística has launched this new service in Portugal which focuses on the refrigerated goods sector.

These types of operations, which began at the end of 2012 and, in the first half of 2013, have become the chosen solution by many companies in the food industry that operate in Portugal". As the company sources have stated, "operations are simple and highly efficient".

Handling of these goods is centralised at the FCC Logística platform in Azambuja (Portugal) where clients deliver their refrigerated goods (between 0 and 7º C) every day and where FCC professionals receive the merchandise, prepare the order, and deliver the goods the day after their arrival at the platform.

From the Azambuje platform, FCC Logística is currently managing an average of 20,000 shipments daily and more than 6,000 tons of refrigerated goods from various clients. The target is for this new service to benefit also the companies that operate from Spain but whose final customers are in Portugal, thereby speeding up the delivery of goods in the neighbouring country.

## Cross-docking

In the logistics industry, cross-docking refers to the preparation of a certain type of order (one of the functions of a logistics warehouse) without placing the merchandise in stock or involving picking operations. It enables the transit of materials from different destinations and consolidates merchandise with different origins.

## Extension of the contract with the Coca-Cola Refrige bottling plant in Portugal

The logistics company has just extended and enlarged the collaboration agreement in Portugal with the company Refrige, Coca-Cola's sole bottling plant in Portugal.

Collaboration with Refrige dates back to 2008 with a limited project that now includes storage, the preparation of orders, co packing work, and distribution.

At its facilities in Azambuje, very near Lisbon, FCC Logística receives every day the products from Refrige's various plants, including the one located in Azeitão. At the logistics platform an average of 9,000 pallets are stored, with an average 4,700 deliveries on a monthly basis and a total of 9,000 tonnes distributed.

# Warm-up exercises before starting work, an example worth following

## The FCC Environment branch in Las Palmas has launched a preventive program

As in all activities that require significant physical efforts, it is necessary to do some warm-up exercises before each work day to prevent injuries, improve health, and reduce sick leave.

One example is the initiative launched at FCC Environment in Las Palmas consisting of warm-up and stretch exercises before the start of the working day. Each employee performs warm-up exercises and stretches the body parts that work the hardest during work.

FCC Environment in Las Palmas in charge of the upkeep of trees and green spaces in the city. The working day for those who work in parks and gardens begins at seven in the morning. Employees meet at the Company's machinery park on the road from Guanarteme to Tamaraceite. Afterwards, the Company's 270 employees depart for work.

## 20 minutes of exercises

The daily routine of employees changed one year ago. Each morning, all workers from this department participate in this initiative and perform warm-up exercises, led by a monitor, every morning. They work on all parts of the body, particularly those areas that could be overloaded because of work. Gonzalo Conde, the chairman of the Company's Safety and Health Committee told us that the idea behind this initiative came up at the committee due to the high rate of job-related sick leave. The goal is to improve worker's safety and health, prevent injuries at work, and reduce the rate of absenteeism. After several meetings, the Safety and Health Committee came up with the idea for these activities and submitted the proposal to the Company.

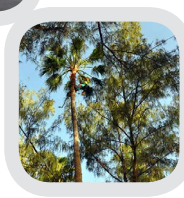
## Awareness-building meetings

FCC approved the initiative and jointly with the accident insurance company decided which exercises were going to be performed and the training program for colleagues who would be monitoring the warm-up exercise sessions. All employees attended the awareness-building discussions on torso-lumbar area injuries and brochures were distributed providing information on how our backs function and on the different types of exercises a stretches to prevent certain types of injuries.

> The workers welcomed this initiative and are feeling better now, no longer suffering from any job-related discomfort

The monitors, all volunteers, received a one-week training course so that they could lead the warm-up sessions of their colleagues.

Otoniel Santana, an Occupational Hazard Prevention technician at the FCC Environment department indicated that since this initiative was launched in June 2012, absenteeism has been reduced by 50%. In addition, since January to date, no worker has required medical attention for back injuries that are quite common for those who work at the parks and gardens.



The initiative was welcomed by workers. They say that they feel more agile, lighter, and that they are no longer suffering from any job-related discomfort. The idea is expected to serve as an example and should spread to other locations where FCC carries out its activities.

Link to video

# 16 FCC Environment employees overcome great challenges in a charity fundraising campaign

Congratulations to the 16 members of FCC Environment's workforce who were able to complete the demanding 10-kilometre WolfRun through woodland, open spaces, lakes, and full-on mud obstacles to raise funds for a charity.

They collected more than 1,600 pounds for the Lullaby Trust (formerly, the Foundation for the Study of Infant Death (FSID), an organization that provides specialised support services for affected families.

Stuart Mitchell, senior engineering manager, and his team (Abigail Bridge, Andrea Patrick, Dan Osborne, David Uren, Delvis Firth, Inge Flowers, Mark Lancaster, Mat Nicholson, Matthew Armstrong, Matthew Hayes, Paul Dumpleton, Robin Tucker, Russell Bromage, Sarah Henderson and Zoe Flanagan) participated in the run in remembrance of Ella, Stuart's daughter who died four years ago.

In 2009, the Stuart's family suffered the sudden and unexplained death of Ella, their 8-week old daughter. The Lullaby Trust gave the considerable support during those difficult times. Stuart, by participating in this fundraising initiative tried to reciprocate since he hast first-hand knowledge of the importance of these services for families who have been affected by this tragedy.

The group tackled a series of difficult obstacles; running, climbing, jumping, wading and swimming through a very demanding route and more than succeeded in this endeavour. Stuart thanked the sponsors and expressed his opinion on the WolfRun: "We behaved liked kids and, despite being covered with mud, we laughed throughout the entire run. We'll be signing up against next year, so join us: the more we are, the muddier we'll be" he said.

# FCC Environment congratulates the Awards for Excellence finalists

## In recycling and waste management

Dave Vasey, one of the drivers along rural waste collection route for recycling in Harborough, and the staff at the Hadleigh (Suffolk) Household Waste Recycling Centres (HWRC) were runners up for the Award For Excellence for recycling and waste management in May 2013.

Dave was nominated by his bosses and Harborough Council in the "Collection Crew of the Year" for his dedication to the collection service and his rural community.

Dave covers up to 28,000 miles each year collecting household waste in isolated places in Harborough and has never failed despite the harsh weather conditions. He has improved the collection service and neighbours have praised his positive attitude and reliability.

### Hadleigh

The Hadleigh Household Waste Collection Centre which he manages on behalf of Suffolk County was the runner up in the Civic Amenity Site of the Year. It was selected for constantly achieving high rates of recycling which have been improving every year since 2010. The recycling rate in 2010 was 83%, 87% in 2010, and 88% in 2012, exceeding the 60% target contemplated in the contract with Suffolk County.

Besides a successful household appliance (RAEE) waste recycling, it has also joined a series of charities such as Re-Cycle or the Ipswich Furniture Project. Client satisfaction with the site is very high and the crew is often praised by the public for being very cooperative.

### Leicestershire County

Harborough is a non-metropolitan district in Leicestershire County (England).

### Hadleigh County

The Hadleigh Household Waste Recycling Centre is situated in Suffolk County (United Kingdom).

# Prevention training at FCC Environment

FCC Environment safety representatives involved in a new training program that will help them perform their tasks.

Three one-day courses on:

1. Basics on Prevention and Health (phase 1), provides a basic level of knowledge on the prevention of occupational hazards.

2. Basic training for the representatives of the Prevention department, covering all roles and responsibilities of those in charge of Occupational Hazard Prevention.

3. Investigation of Accidents/Incidents provides basic knowledge on how to investigate accidents and incidents in the Company.

## The role of the Occupational Hazard Prevention manager

- Serve as the point-of-contact between managers and employees on Prevention and Health related issues.
- Support the Prevention, Health, Environment, and Quality and the Training teams to communicate and implement Prevention and Health campaigns.
- Report to management the concerns of the team and other employees on Prevention and Health related issues.

Erzberg Rodeo

# .A.S.A. also the master of dirt

The .A.S.A. team waded regularly in the lake which became the starting line for the most extreme endurance test, the Erzberg Rodeo, to clean up the Iron Giant.

Once every year, 1,500 participants get together at the Erzberg Rodeo and fight for the 500 spaces at the starting line in the Red Bull Hare Scramble final. Pilots face each other, competing against the clock, at tracks such as the Rocket Ride, followed by the Iron Road Prologue, and lastly, the Red Bull Hare Scramble, a tortuous route around the mountains. 2013 marks the 19th edition of the Erzberg Rodeo.

The weather did not give any respite to the 1,500 participants at the Erzberg Rodeo. Except for a few hours on Saturday, steady rain with temperatures of about 10° C and even snow. But as if they were made of metal, the brave participants resisted the harsh weather conditions during their climb to the Iron Giant, the open-pit mine that has been supplying iron to eastern Austria.

Viewers from around the world watched the spectacle from the dry, in tents or from home. “Iron” viewers were willing to assist at any time in the so called “help zones”, helping stranded drivers over the steep paths of the Erzberg using ropes and man’s power for pulling vehicles out of the dirt.

But not only the riders got their money’s worth, the creativity of the audience took care of entertainment as well some made out of necessity a virtue and bathed unceremoniously in the abundant rainwater, others rode in dinghies through the starting area (for more pictures please visit http://www.erzbergrodeo.at)

The .A.S.A. Fleet regularly waded through the start - “lake” to properly take care for the cleanliness of the “Iron Giant”. Our truck drivers took their offroad skills out of their luggage and proved true to the motto “We conquer every mountain!” and climbed in many areas of the Erzberg with their vehicles.

.A.S.A. employees feel very proud of taking part in this year’s edition of the Erzberg Rodeo and are looking forward to next year’s event.

# Social responsibility

# Reforestation day at Puente de las Américas (Panama)

In keeping with its Corporate Social Responsibility policies and to commemorate the Environment Month, FCC Construcción in Central America organized a reforestation activity in the West Access to the Bridge of the Americas.

The activity involved the planting of 150 yellow Guayacán trees in which 20 children from the San Pedro Mohasco de Burring kindergarten participated and were able to learn more about reforestation, its importance, and about the tree that they planted. For Julio Casla García, the senior manager of FCC Construcción in Central America, this activity is “a grain of sand representing what we, as a company, can do for the community”; he also added that this initiative will be carried out at other points in order to build awareness on the importance of reforestation.

FCC Environment staff were present at the event as well as the employees who are working on the West Access project for the Bridge of the Americas, and also members of the National Environment Authority

# FCC Central America supports reading

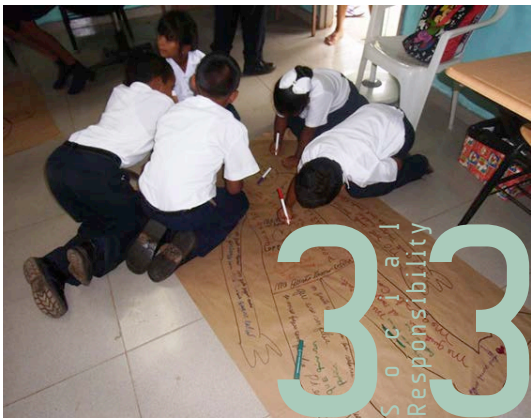
(ANAM, Spanish acronym), and the Ministry of Public Works (MOP).

FCC, with this initiative, shows that for its personnel, a job well done is one of the principles of the Company.

On 14 June, FCC Central America organized a reading workshop at the La Valdeza School in the Coco quarry, which was entitled “I want to be different”.

Promoted by Carlos Fong, from the National Institute of Culture (INAC) 25 children from first to fourth graces participated. Copies of the storybook “Medio Pollito” were distributed among the children

The students had a lot of fun while, at the same time, they were able to learn. The objective of this new initiative is to encourage reading habits among students to improve their culture.



Concha Rubio de Miguel

# FCC Volunteers:
## At the "Fridays at the Residence" events

Our colleague, Olga Torres Barrado was present at the Fridays at the Residence cultural cycle on 10 May 2013.

The conference, entitled "La copla: poesía popular" gave Olga the opportunity of bringing the audience closer to the most popular songs and the main interpreters.

On the following Friday, 17 May, Juan Luis Castillo Castilla, director of one of the Aqualia Zones, was the speaker, giving a conference on "Tarraco Scipionum Opus: Escipión, the commitment with Rome", in which he described to the members of the audience the foundation of the current city of Tarragona by the Romans.

A week later, on 24 May, the volunteers travelled from Tarragona to the Principality of Asturias, thanks to Avelino Acero, the general manager of FCC Corporate Functions and Special Projects, and the singer from Asturias, Pipo Prendes.

Avelino Acero acted as a tour guide, sharing his deep knowledge on the cultural, landscape, gastronomic, and architectural heritage of Asturias by showing a slide presentation.

After the virtual visit to Asturias, Pipo Prendes took over and, accompanied by the guitarist Fernando Fernández sang a selection of songs from his new record, "Un paso más".

The last conference in May was by our colleague Maribel Castilló Villegas who spoke about "The wonderful world of flowers", and made a presentation in which she described the peculiarities of vanilla, coffee, cocoa, tea, and violet flowers and the long floral art tradition of Spanish culture.

### La Nostra Casa de Fort Pienc

At the La Nostra Casa de Fort Pienc residence in Barcelona, FCC Volunteers organised an event on 22 May featuring Javier López-Galiacho who made a presentation on the life of the Cuban singer Antonio Machín.

In June, first conferences at the Fridays at the Residence cycle was by Concha Rubio de Miguel, who transformed the day centre at the Nuestra Casa Residence into a tea parlour.

Tea is an infusion made with the leaves and sprouts of the tea plant "Camellia sinensis". After water, tea is the most widely consumed beverage in the world.

The two closing events in June were on bullfighting. The first one, on 21 June, was a presentation by Juan Carlos Montejano, the manager of FCC Procurement.

In his speech on "The truth in bullfighting", Juan Carlos, who also used images, explained to the audience the passion and the fact that it has served as a source of inspiration for many famous painters, writers, and poets, such as Goya, Picasso, Dalí, Sorolla, Zuloaga, Miró, Barceló, Miguel Hernández, Alberti, Cernuda, Gerardo Diego, Pérez de Ayala, Camilo José Cela, Ortega y Gasset, Sabater, Arrabal and Lorca.

The IV cycle of these Fridays at the Residence cycle ended on 28 June with a presentation by Mari Carmen Camacho and Silvia Camacho who raise bulls at their "La Quinta" ranch in Medina Sidonia (Cadiz).

http://portaldelvoluntariado.fcc.es/voluntariado/Paginas/default.aspx

# **Felix Parra,** chief executive officer of **FCC Aqualia,** meets with the Ministry of Health, Social Affairs, and Equality and representatives of the IBEX 25 stock market index

In line with FCC's CSR policy, the chief executive FCC Aqualia, Félix Parra, and representatives from 28 companies listed in the IBEX 35 index, met recently minister Ana Mato at the main offices of her department.

The objective is to speed up the representation of women in senior management and to keep pace with other EU countries so as to achieve the 2020 Europe Economic Strategy.

One of the measures to be implemented will be to create monitoring committees comprising representatives of the administration and companies in order to ensure that companies fulfil this priority social commitment. These committees will e created after the signature of the collaboration agreement by those who voluntarily join this initiative. After the collaboration agreements have been entered into by those who voluntarily join the initiative.

# **FCC's** procurement model certified under the European Procurement Standards

The director of Institutional Relations of AERCE, Federico Martínez, gave the certificate to Juan Carlos Montejano Domínguez, director of FCC's Procurement Management.

FCC's Procurement Model successfully passed the certification audit in accordance with the "UNE-CWA 15896" procurement standard on Added Value Procurement Management. FCC is the first European corporate Group which has been certified pursuant to this standard.

FCC Volunteers and Fundación Adecco organized a volunteers' day at the La Nostra Casa Residence in Valencia.

# "On board, pirates"

"FCC Volunteers" and Fundación Adecco celebrated on 11 May a social volunteer seminar with 23 disabled individuals at the Nostra Casa Residence in Valencia.

Aware that social and labour integration of people with disabilities require a cross-cutting process that must be tacked from the foundations, FCC and Fundación Adecco developed an original initiative to encourage the development and autonomy of 23 disabled beneficiaries at the Residence and the La Nostra Casa day care centre in Valencia which was built and funded by the Esther Koplowitz Foundation.

FCC Volunteers and Fundación Adecco organised a leisure activity which enabled these people to disconnect from their every day affairs and go on board in a pirate adventure to look for a treasure, following different clues and, most importantly, working as a teach to achieve this common objective.

The activity involved more than 20 workers and family members who are FCC volunteers who changed from their work clothes and dressed as pirates and led this activity, helping those who are disabled find the very much desired treasure. This event took place at an exceptional location: the Cabecera de Valencia Park, where participants were able to enjoy a day out and interact with the environment.

A video summarising the event reflects the successful participating and the objective that was accomplished.

Watch the video

# Recycled paper will represent the Czech Republic

## in the 2014 Winter Olympic Games in Sochi (Russia)

There is the highest probability that the recycled paper that .A.S.A. supplies to the company CIUR will take part in next year's Olympic Games in Sochi. While many athletes around the world are still fighting for the chance to compete, the presence of tour paper at the games has been more or less assured.

You might ask how this is possible. Simple. Since 2000, .A.S.A. has been a partner of the Czech company CIUR ( www.ciur.cz) which is one of the leaders in Europe and around the world in producing high-quality cellulose fibres from recycled paper. All of its cellulose products are made only from selected recycled material in the Czech Republic.

Its product development is focused primarily on the high level of usage of such recycled material, thus demonstrating the maximum concern for the environment. In addition to industrial fibres, energy-efficient insulation systems and HVAC products play a major role in the company's portfolio.

# Tip Tecnológico

**Ya puedes visualizar el TIP del mes:**

## "Cómo preparar la hoja de cálculo para la impresión en Office"

ver tip versión 2003 | ver tip versión 2007

La hoja de cálculo queda bien en la pantalla, así que parece estar lista para imprimirse, pero esto no es del todo cierto. Ahorra tiempo y papel siguiendo los pasos que se describen en este TIP para ajustar el aspecto de la hoja de cálculo, evitar problemas de impresión comunes e imprimir el resultado.

## ¿Qué son los "Tips Tecnológicos"?

**Los "tips tecnológicos" (ayudas tecnológicas) son simulaciones grabadas paso a paso, que visionarás desde tu PC, y te mostrarán de una forma sencilla y clara, la manera de obtener el máximo rendimiento a las aplicaciones informáticas que tenemos disponibles. También podrás consultar un manual de usuario en formato pdf.**

**Periódicamente os informaremos de las nuevas publicaciones de "tips tecnológicos" en la Intranet de FCC.**

## Ventajas de los "Tips Tecnológicos"

- Ahorrarás tiempo y esfuerzo innecesario: las tareas más comunes que resultan largas y pesadas pueden convertirse en sencillas y provechosas para nuestro trabajo diario.
- Conocerás funcionalidades de aplicaciones que ya tenías y no habías utilizado.
- Ampliarás conocimientos y te ayudarán a asumir el avance de las tecnologías de la información.

Esperamos que esta iniciativa sea de utilidad e interés para todos y te animamos a aplicar estos consejos.

**División de Sistemas y Tecnologías de la Información**

FCC Servicios Ciudadanos

# FCC, certified as a healthy company

The Cataluña II Offices of FCC Medio Ambiente has become the first company its sector to be awarded the Healthy Company by the Asociación Española de Normalización y Certificación (the Spanish Association for Standardisation and Certification, AENOR, Spanish acronym). This recognition was collected by Jesús Padullés Caba, the director of this branch office, in a seminar held at AENOR's headquarters. Coinciding with this event, the first practical experiences in this field were presented.

This certification, pursuant to the AENOR Healthy Company model, certifies that Cataluña II has implemented a management system that promotes and protects employees' safety, health, and well-being and the sustainability of the work environment.

A pioneer model in the world, it is based on World Health Organization (WHO) criteria and on an ongoing improvement methodology which considers health as the complete state of physical, mental, and social well-being, and which main objective is to promote healthy work environments.

Regardless of the professional sector and the size of the organization, the aim of this model is to reduce the rate of accidents and absenteeism, improve the rates of productivity, competitiveness, and sustainability of companies, and promote a good quality of life for the community in general by improving the health and well-being of employees.

## FCC, a pioneer

Companies must comply with the Healthy Company model and participate in an audit process in order to be awarded this certificate. To this end, they must identify the specific risk factors that have an impact on the work surroundings in order to eliminate, reduce, and control such factors subsequently. Some of typical examples contemplated in this model include promoting healthy eating habits, encouraging the practice of sports at work, or healthy lifestyles even outside working hours.

Published in Spanish and English, the system is the work of AENOR with the collaboration of the European Health and Social Welfare Institute (the collaborating WHO centre in Spain) and FREMAP, the Prevention Company, to address the demand of a large number of leading companies who are working on this issue in which FCC is a pioneer.

# The CLH Group awards the "Zero Accidents 2013" prize to FCC Industrial

The "Zero Accidents" prize, which is in its 3rd edition this year, is awarded to the collaborating company with the best occupational safety and health performance.

The CLH Group selected FCC Industrial, an FCC Construcción subsidiary, as the winner of the "Zero Accidents" prize which recognises the best performance in occupational safety and health of collaborating companies who have provided services at CLH's facilities.

José Luis López de Silanes, CEO of CLH, handed the prize to the managing director of FCC Construcción, Miguel Jurado, in a ceremony held at its Madrid headquarters. The panel of judges, comprising members of the CLH sub-division for the Prevention of Occupational Hazards, the Environment, and Safety, considered the results achieved by collaborating companies during the execution of projects throughout 2012.

The "Zero Accidents" prize, now in its third edition, is awarded to encourage collaborating companies to become involved with the values of CLH and its safety and accident-prevention policies in accordance with the Company's corporate social responsibility policies.

To be eligible for this prize, collaborating companies must be approved by the CLH Group and have signed the "Zero is possible" Safety Commitment document whereby they indicate their commitment to promoting their employees' physical, mental and social welfare by implementing an appropriate protection and prevention policy against the hazards which are inherent in their work.

The award-winners, Francisco J. Suarez, head of the Trainasa Sewage System Department of Vigo in the photograph on the right, and Manuel Ruiz, manager of Water and Services in the Tropical Coast of Granada, on the left, pose with Félix Parra Mediavilla, deputy manager of FCC Aqualia who is standing on the left, and Pascual Capmany, manager of FCC Aqualia's Safety and Health department, on the right of the winners.

# Aqualia 2012

# Prevention Awards ceremony

Félix Parra Mediavilla, general deputy manager of FCC Aqualia, gave the prize to the Francisco J. Suárez, head of the service in Vigo and to Manuel Ruiz, manager of Water and Services in the tropical coast of Granada.

In the photograph, Carlos Abella, manager of Sports Promotion at the Spanish Automobile Driver's Association and coordinator of the Circuits area, in a moment during his speech.

The 2012 Aqualia Prevention Awards ceremony was held at FCC's corporate building in Las Tablas (Madrid). In the first edition of this prize, Francisco J. Suárez, head of the Trainasa Sewage System of Vigo was given the award for his professional career and Manuel Ruiz, manager of the water services in Granada's tropical coast won the award for preventive management. Both prizes were given by Felix Parra Mediavilla, FCC Aqualia's chief executive officer.

The guest speaker, Carlos Abella, manager of Sports Promotion at the Spanish Automobile Driver's Association provided another vision on prevention, discussing his experience in prevention and safety on automobile race events. As the safety coordinator at the European Formula 1 Grand Prize in Valencia, he said that it was "gratifying to hear a pilot such as Mark Webber say after the Valencia 2010 Loop that he was not concerned about safety thanks to the prevention measures that had been implemented".

Pedro Rodríguez, manager Corporate Development, talked about the relationship among the three issues discussed by Abella on prevention (pilot, vehicle, and circuit) with FCC Aqualia's activity in prevention, highlighting the fact that since 2000, the rate of accidents had plunged by 80%. Pascual Capmany, manager of Safety and Health talked about the need to work so that prevention management became part of the professional experience of every company manager. He also demonstrated his commitment to encourage other FCC Aqualia branch offices, projects, or companies to submit more candidate projects in the next edition of this award.

> "The work carried out by FCC Aqualia and its employees in the fight against accidents is reflected in the 80% drop of the rate of accidents since 2000"

After receiving the prize, Manuel Ruiz stated that "this prize is the result of a job well done by a team, the heads of the department, the prevention experts, and technicians and that it should serve as a stimulus to continue working to achieve more improvements".

For .A.S.A., employees' health is a priority

# Lower rate of accidents in Hungary

> People come first. Safety comes first

With the objective of eliminating accidents at work, during 2012 .A.S.A. has paid special attention to the services that the Company provides in Hungary by linking executives' variable remuneration to the results obtained in this regards.

The company prepared a list of tasks, such as supervision and the renewal of the regulations on work and fire safety and also on the improvement of processes. The normal annual training course, which have been updated, on prevention for new employees were supplemented by providing other practical courses and occasional exercises.

The direct supervisors constantly monitored that the practical training was applied by performing quarterly inspections. A reporting system was created for changes that could require monitoring and analysis, in addition to informing the management team on a monthly basis.

The results obtained were significant: the number of accidents fell from 24 in 2011 to 11 in 2012. The objective is to reduce the accident rate even further until achieving a rate of zero accidents.

# Promoting health at work in Andalucía

The Andalucía II branch and the Medical Services of Malaga continue to carry out activities for promoting health at the work place, implementing measures to improve the health of employees.

These activities focus on:

- Provide the skills and appropriate information (seminars, awareness-building workshops on healthy eating habits, physical exercise, quitting smoking, managing stress, etc...).
- Create the right conditions in the work environment (collaboration agreement with gyms and organizing trekking routes).

These activities complement and shore up the occupational hazard prevention lines since they allow workers to choose the healthiest habits and take control over their own health.

The implementation of the program, in collaboration with the Health Department of Andalucía, was carried out at the branch headquarters by organizing seminars in the department in charge of leaning buildings and premises in Benalmádena (Malaga). The response of employees and their acceptance of these initiatives were overwhelmingly positive.

# FREMAP thanks FCC for its commitment to occupational safety

FCC received an award by Prevención FREMAP for its considerable work on occupational hazard prevention. The event was held in Madrid coinciding with the organization's 50th anniversary and the World Day for Safety and Health at Work.

The event was presided by Ana Isabel Mariño Ortega, counsellor for Employment, Tourism, and Culture of the Madrid regional government who, during her speech on the prevention of occupational hazards by companies, stressed that this was a profitable investment.

The milestones achieved by the company since 1963, the year on which it launched its preventive activities by creating the Industrial Safety department, were also mentioned and discussed.

# Exchange of safety, health, and well being
# experiences and good practices with Europe

On 5 and 6 June 2013, FCC attended the seminar entitled “Comparison and exchange of good practices in occupational safety and health” sponsored by the European Agency for Safety and Health at Work (EU-OSHA) as part of the “Healthy Workplaces campaign: working together to prevent risks” of which our group is an official European collaborator.

During the seminar, some of the leading European companies and other agents involved from the public and private sectors, submitted their best practices in the field of work safety and health and participated in a debate and exchange of knowledge in order to promote increasingly better measures at organizations and to achieve safer and healthier workplaces.

The topics discussed by the working groups included: “Learning a lesson from accidents”, “The training of a leader”; Preventive culture in the organization”; “How to motivate and support a small company”; “Safety and Health regulations and their influence on construction”.

The first day of the seminar was concluded with the certificates given out confirming the company as an official European collaborator. One of the guests at the event was Lászlo Andor, European Commissioner for Employment, Social Affairs, and Inclusion, who pointed out that he was quite impressed by the good work being carried out by these companies.

In this way, FCC becomes fully involved in developing global actions coordinated within the European Union, identifying itself and participating in the exchange of experiences and mutual enrichment and collaborating with leading entities such as the European Agency.

Additional information on the “Healthy Workplaces campaign: working together to prevent risks” campaign is available at the following website:

http://www.healthy-workplaces.eu/en/

# More attention paid
# to preventing occupational hazards

On 6 June 2013, the National Institute for Safety and Health at Work (INHST) brought together managers and employees from seven Spanish companies, including FCC, and experts on safety and health at work plus journalists from the specialised media to present examples of Good Practices in leadership and participation.

FCC collaborated in the 2012-13 European “Working together to prevent risks” sponsored by the European Agency and its Network of Reference Centres which achieved a large participation of Spanish companies and organizations in the 11th edition of the European Good Practices Awards.

INSHT, the reference centre of the European

Agency, organised a round table discussion as part of its contribution to this campaign to disseminate the successful experiences in various companies. FCC, which participated in this event with another six companies, discussed its experiences with the media regarding joint collaboration to improve safety and health conditions at work.

This experience was shared with INSHT experts who had the opportunity of learning about the details of the best examples submitted and of participating with managers, workers, and journalists in the final symposium.

# Second edition of the Prevenland contest

## The children, nephews and nieces, and grandchildren of FCC employees participate

FCC continues to carry out actions involving the promotion of health and of a preventive culture aimed at workers and their families.

In this context, the Company has renewed its agreement with the Mapfre Foundation that allows it to use the www.educatumundo website. The contents of this site are focused on promoting good preventive, healthy and sustainable habits that help us to improve the quality of our lives and health, especially of the youngest members of the family.

For the second consecutive year, we launched the Prevenland contest, organized by FCC and the Mapfre Foundation, aimed at the children and close family members of FCC active employees in Spain ranging from the ages of 6 to 12. For the first time, Spanish-speaking workers in Latin American countries were allowed to participate.

**What is necessary for being able to participate in Prevenland?**

It's simple: Go to the https://www.prevenland.com/fcc/, website, a space created solely for FCC employees.

Check the requirements: (attached PDF)

### A virtual world

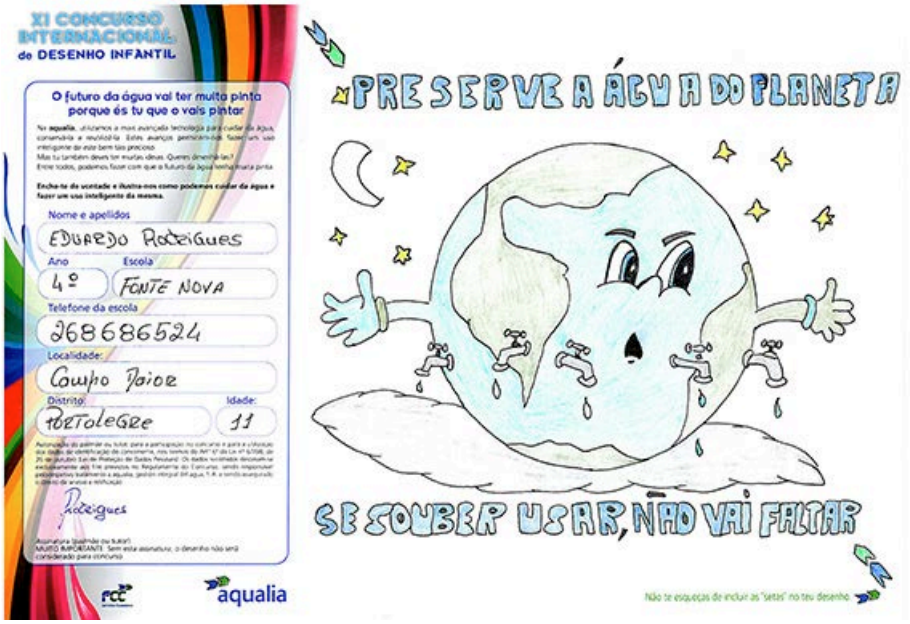
Prevenland is a virtual game where children can have fun, chat and play with other children under accident prevention theme, disseminating habits for a healthy lifestyle, and providing advice on the conservation or the environment.

# FCC Aqualia 36,578 reaso for using water smartly

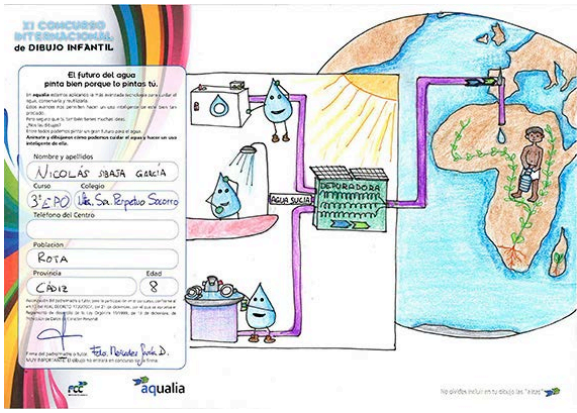
## Participation was 20% higher than last year in the 11th International Children's Drawing Contest held under the theme: "The future of water looks good because you paint it".

FCC Aqualia celebrated World Environment Day with the successful 11th edition of the International Children's Drawing Contest held on 22 March, on World Water Day with the participation of 36,578 students from third and fourth grades in Spain and Portugal, 20% more than in last year's event.

Under the theme for this year's edition "The




# has
# ons




future of water looks good because you paint it", FCC Aqualia emphasised the development and application of new technological developments, some of which are already available, the contribute to more efficient water consumption at households and cities and one which is respectful of the environment.

The works of the younger crowd demonstrated their awareness of this issue and their drawings, with great creativity, expressed how they envision the future in their cities and towns, painting a thousand and one smart ideas for the responsible use of water.

José Arce, manager of the Communications and Marketing department, said that "we continue to feel proud of this initiative after having organised eleven editions, not just in terms of participation, but also because we are raising awareness among the young and the record figures underline that the impact of this initiative in our schools and among the youth is certainly increasing".

"We hope, once again, that the drawing contest contributed to bringing this message to the youth, our future", Anna Alcalá, in charge of this edition of the contest said." She added that "In this way, they will not only have a better understanding of water and of its end-to-end cycle, but will also learn to better appreciate the efforts required to bring it to homes with total guarantees, quality, and amount, also using technologies that make life easier and which help them to consume and use water more responsibly.

To see the list of winners and the prize-winning drawings go to: www.aqualia.es

## 325,000 drawings

The International Children's Drawing Contest has become a reference in the localities where FCC Aqualia operates in Spain, Portugal, Italy, and the Czech Republic. More than 325,000 drawing have been submitted since the first edition.

A pioneer initiative in the sector, schools, city councils, and the media collaborate for its dissemination.

# The desalination plants in Ibiza and Sant Antoni receive recognition for their good prevention management

The insurance company Asepeyo and the General Labour and Health at Work Directorate has given recognition, by means of a certification diploma, to the zero accident rates achieved at the Ibiza and Sant Antoni desalination plants thanks to their excellent prevention management.

This award underscores the exemplary business performance after two years without recording any accident at the workplace requiring sick leave or any work-related disease.

The success of this zero index, deserving of this award, is due to the excellent management and the joint efforts of the Company's workers in implementing preventive measures, policies, and practices such as training and research in accident related issues.

The managers of the Ibiza Capita and the Sant Antoni desalination plants, Lorenzo Romero and Cristina Ramón, respectively, collected the award at an event held at the SOIB Bacladona Training Centre. Those who attended the event included Lourdes Cardona, the secretary of the regional government's Business and Job Promotion department, and the local manager of Asepeyo in the Balearic Islands, Guillermo Remón.

From left to right: Guillermo Remón Oliver, the regional director of Asepeyo in the Balearic Islands; Lorenzo Romero, manager of the desalination plant in Ibiza; Cristina Ramón, manager of the Sant Antoni desalination plant; and Lourdes Cardona, the secretary of the regional government's Department for Business and Job promotion.

Cardona pointed out that "the award-winning companies are a reference in our community because they demonstrate that there are many businessmen and workers who perform their job well, adopting the necessary prevention mechanisms to reduce the rate of accidents to zero.

> "Success lies in excellent management and in workers' joint efforts"

infraestructuras
medioambiente
agua
Día Mundial del Agua
2013
Año Internacional de la Cooperación en la Esfera del Agua
El agua es sinónimo de vida. Y para nosotros también de innovación, responsabilidad y compromiso.
En FCC, a través de Aqualia, llevamos mucho tiempo trabajando en el ciclo integral del agua en más de 1000 poblaciones de todo el mundo. Pensando en sus millones de habitantes, incorporamos las últimas tecnologías que facilitan una gestión eficiente y sostenible. Y así, entre todos, haremos de cada ciudad un lugar mejor donde vivir.
Lo estamos haciendo juntos.
www.fcc.es
aqualia
FCC
Servicios Ciudadanos

# Knowledge

From left to right, Jesús García, manager of ACAL; José Vicente Colomer, director of the ACAL Research Chair; Georgina Blanes, director of the Alcoy Campus of Universitat Politècnica de València (UPV); Antonio Francés, mayor of Alcoy; Manuel Calatayud, manager of FCC Aqualia in the Valencia Community; and Enrique Cabrera, director of the Water Technological Institute, during the press briefing.

# Alcoy, subject of a study for optimising energy consumption

## FCC Aqualia participates in this project covering the end-to-end water cycle

The Technological Water Resources Institute of Universidad Politéctnica de Valencia and Alcoy City Council, participate jointly with FCC Aqualia, the company in charge of water supply in Alcoy.

The Comprehensive Investigation on Sustainable Islands (IISIS, Spanish acronym) is taking on the challenge of designing a "city of the future" (island) that is self-sufficient and sustainable in relation to the main services: water, energy, and waste management and which is capable of evolving and responding to stimuli in its surroundings.

The city of Alcoy (Alicante) has served as the basis for this project which is being subsidised by the Centre for Technological and Industrial Development (CDTI, Spanish acronym) and by the Ministry of Economy and Competitiveness. The objective is to optimise the consumption of energy resources that has a direct bearing on all processes involving the capture, distribution, and consumption of water.

"The initiative is part of the IISIS INNPRONTA project for designing the self-sufficient and sustainable "city of the future""

## Promoting and improving its R+D+i activities

FCC Aqualia is constantly in touch with various agents in its surroundings to promote and improve its R+D+i activity which is developed by its Innovation and Technology Department. The Technical Department of the Company's Central Zone has also been involved in the end-to-end water cycle as well as the staff that provides services to Alcoy.

From left to right, Jesús García, manager of ACAL; José Vicente Colomer, director of the ACAL Research Chair; Georgina Blanes, director of the Alcoy Campus of Universitat Politècnica de València (UPV); Antonio Francés, mayor of Alcoy; Manuel Calatayud, manager of FCC Aqualia in the Valencia Community; Enrique Cabrera, director of the Water Technological Institute; and Enrique Masiá, former director of the UPV campus in Alcoy, after the presentation of the study.

The work on "Joint Optimisation of the use of Water and Energy" is being carried out following an agreement entered into by the Technological Water Institute (ITA) and FCC Aqualia, with the approval of Alcoy's City Council.

Professor Enrique Cabrera form ITA and the person in charge of the study, believes that "with the increasing concentration of populations in cities, coupled with developments in the farm sector and in intensive industrial processes, water has become very energy-intensive". He believes that this has a significant impact on the cost of this service and also aggravates the environmental impact by producing greater amounts of $CO_2$ emissions to air.

The reason why this study, which will be ongoing until September, is important is due to the very few serious studies that have been carried out on the energy-dependence of the end-to-end water cycle and the actual measurement of energy consumption. The project is a pioneer one in Spain and in Europe, and integrates the city of Alcoy in the group of Smart Cities that are concerned about improving the quality of the lives of its residents and protecting the environment. Once the investigation has been completed, those who are involved will make the results public.

## ITA, a pioneer centre

The Technological Water Institute (ITA, Spanish acronym) of the Polytechnic University of Valencia, professor and doctor Enrique Cabrera Marcet, and his team, are developing the projects related to this investigation. Doctor Cabrera Marcet is a professor in the Water Engineering and Environment Department at UPV and is considered an international authority in the field of end-to-end water management for human, farm, and industrial consumption.

One of his main lines of research is water and energy, showing that energy consumption in modern societies is linked, in a significant percentage, to the capture, drainage, treatment, and reuse of water, that is, what is known as the "end-to-end water cycle".

## ACAL, a unique company

The idea behind the project was sponsored by those in charge of the ACAL Research Chair, Sustainable City, since the project fits in perfectly with its objectives: promote actions aimed at coordinating those who have political and technical responsibilities in the different local public administrations as well as those in charge of public service water management, along with the research groups of Polytechnic University of Valencia so that the Smart City concept is not a mere utopia and can become a reality.

In this field, ACAL (Abogados y Consultores de la Administración Local, S.L.), the company sponsoring the ACAL Research Chair, is also a unique company in Spain since its only clients are city councils and public administrations, providing legal counsel, and financial and technological advice to these entities in all matters pertaining to public services management for which they are responsible.

# Guest column

**By: Juan Carlos Saez de Rus**

Department Manager – Corporate Division
of Occupational Safety, Health, and Welfare

# Healthy workers, healthy companies

Nobody has any doubts about the importance of health and happiness for our well-being. Happiness is intangible and difficult to quantify the returns, as if was just another item in a balance sheet. Happy workers benefit companies. As people say, success does not bring happiness but happiness can lead to success.

When somebody asks us what we want or want motivates us people, the answers are quite diverse and complex. In the last instance, we want to be satisfied with our lives, to be happy, and as healthy as possible. It's worth repeating what is obvious because we often forget and is not a coincidence that in more than 40 cultures, including non-Western cultures, the most widely recognised values are health and happiness.

Promoting health at work could play a very important role in preparing workers and organisations to be able to face changes.

The future of healthy companies depends, to a large extent, on having well-trained and motivated personnel, and also happy personnel. Nevertheless, more importance is giving to what is urgent and sometimes companies seem to forget about CSR policies and well-being at the work place.

As part of these policies, companies have practices that make them a healthy work environment. This is known as a Healthy Company, one which has among its objectives helping its staff to be physically and mentally fit. These practices in the medium and long-term increase workers' productivity and provide the company and its employees with a better work environment, with greater productivity and, certainly, the benefits of practices for a healthy life.

The benefits of prevention and of living a healthy life become evident in the medium and long term. Accordingly, the measurements taken by North American companies with decades of experience are quite relevant and clarifying.

Most Spanish companies have only started to partially tackle this issue. The Spanish corporate culture places more emphasis on occupational health and prevention and has made great strides in this respect, trying to expand horizons and surpass current regulations, for example, on prevention.

These first steps are undoubtedly of value, but companies must be capable of taking a qualitative leap and make the health of its employees another corporate line of work included in the strategic plan. That is, a healthy company does not just offer its employees a discount voucher for a gym or a healthy lunch option: that would be a very superficial way of addressing this issue.

> “Occupational health, safety, and well-being are essential for everyone and also for the company's productivity, competitiveness, and sustainability”

Healthy companies go beyond this and promote a change of attitude in their employees, motivating them to improve their health and creating the right environment so that they may achieve this.

Achieving this change in attitude and motivating employees while providing them with the means required for living a healthy life implies that it is necessary to design cross-cutting strategies involving different departments within the company. This strategy should include awareness-building measures, information, and specific action proposals.

Spanish companies currently implement very diverse lines of action. Their initiatives can be grouped into three basic pillars: promoting health, sports activities, and good eating habits. A company's strategy should also contemplate different initiatives to bolster each of these pillars in a balanced way. Without a doubt, healthy employees and productivity are interlinked: on one part, absenteeism is reduced significantly, the work environment improves; and, most importantly it reaffirms employees' commitment, loyalty, and involvement with the company's objectives.

Therefore, health, safety, and well-being at work are essential for all of us and our families and also for the company's productivity, competitiveness, and sustainability.

> "To a large extent, the future of Healthy Companies depends on well-trained, motivated, and healthy personnel"

# The Place

## A one-of-a kind project in the world

## The FCC crew is working on

# decontamin

## the river bed of the Ebro River in Flix (Tarragona)

In the Spring of 2013, FCC is working on decontaminating the portion of the Ebro River that flows past Flix, Tarragona. This is a high-priority operation involving the eradication of over a century's worth of toxic waste dumped into the Ebro by local industry. The timetable anticipates that it will take two years and eight months to get the job done.

The project was awarded by Acuamed (a company owned by the national government and operated by the Ministry of the Environment) to a joint venture combining FCC Construcción with FCC Ámbito in 2008. Unique in the world, this decontamination project involves the extraction, treatment, and elimination of sludge and the recovery of the Ebro river and its ecosystem for the 800,000 inhabitants in the province of Tarragona.

# ating

## Decontamination process

FCC is removing toxic sludge which is being treated in a process that will end with the restoration of the river water to its natural condition. The first step taken was to create a safe treatment location. A double wall 1.3 kilometres long was built to separate the worksite from the riverbed. The worksite was further isolated with the construction of a secant pile wall on the right bank.

> “When treatment of the sludge has been completed, the Ebro River will return to its natural state”

The stage, which commenced in March, calls for the extraction of about 960,000 cubic metres of sludge contaminated with heavy metals, organochlorides and a certain amount of radioactive elements. This sludge has built up along about 1,100 metres of factory wall and extends some 150 metres out into the river. It will be removed by an ecological dredging procedure and treated in the plants that have been set up nearby (classification, drying, stabilisation, oxidation, and thermal remediation).

The treatment process consists of wet sorting, where the materials will be separated and classified. Next the silt will be dehydrated. This dried material will be shipped to a warehouse where it will be stored and sampled so the appropriate treatment can be determined. Meanwhile, all the water dredged out of the river and extracted during the treatment process will go to a water treatment plant, after which it will be returned to the protected area. Eventually all the material will be shipped to a landfill 8 kilometres away that has been built specifically for this project.

The project includes a series of additional operations, such as the preparation of an emergency water supply for the cities and towns downriver from Flix as a preventive measure in the event of contamination, and protection of the Sebes Nature Reserve, which lies on the bank opposite the factory.

A fully equipped analytical laboratory has been set up to track the work throughout all its different phases, an essential part of monitoring the effectiveness of the work being done.

## Information website

Acuamed has a website (www.decontaminationflix.com) providing up-to-date information on all the details of the execution of this project, unique in the world because of its size, innovative characteristics, and strict safety criteria. The website also aims to explain the details of this decontamination project that has sparked the interest of experts and the scientific community worldwide. The website is in Catalan, Spanish and in English. Due to the importance of this the work being executed, the website will also be translated shortly into Chinese.

This information channel will serve as a showcase for Spanish technology to one of the markets expected to be one of the most important in this industry.

## Guarantees

The entire project is hedged about with guarantees. The safety of the local population is triply ensured: by the safety measures set in the project design, by a series of regular checks run by the Ebro River Hydrographic Confederation and the Catalan Water Agency, and lastly by the emergency plan approved on 14 February last by the civil protection authorities with the maximum consensus.

This decontamination project will improve the quality of the river's water. The Ebro provides drinking water for over a million people and irrigation for more than 50,000 hectares of land. It also creates the Ebro River Delta, a protected area and natural park.

Decontaminating the Flix Reservoir has been declared an urgent, high-priority project of general interest. The project adheres to the principles of the A.G.U.A. Programme, whose initials in Spanish stand for "Actions for Water Management and Use". The programme includes actions to improve water management and water supplies in accordance with existing and future needs linked to sustainable land development.

The 165-million-euro Flix Reservoir decontamination project draws 30% of its funding from the Spanish government and 70% from the European Union Cohesion Fund. There is furthermore a Land Restitution Plan associated with the project, whose aim it is to provide compensation for the people affected by the work. This associated plan entails another 57 million euros' investment, split between the national government (36 million) and the Catalan government (21 million), making for a total investment of over 200 million euros, the biggest investment ever for a decontamination project in Spain, according to the Ministry of Agriculture, Food and the Environment.

## Synergies

The entire FCC team is participating in this project: FCC Construcción, FCC Ámbito, FCC Aqualia and FCC Industrial create synergies and are working together in this project.

Over 120 people are working on the decontamination of the river: engineers, topographers, chemists, biologists, architects, and geologist are all working a unique project in the world.

FCC is a pioneer in executing this type of decontamination process.

Watch video

# The boss and his project

## Interviewing Miquel Rose, manager of the joint-venture

**Tell me about FCC's role in this joint venture?**

FCC Construcción has played the leading role in this project, coordinating all the crews involved. We have executed the entire insulation construction phase of the affected area.

**What does this project involve?**

The project involves the decontamination of the waste discharged into the river by the chemical industry over a period of more than 100 years.

**Why is it considered a unique project in the world?**

There is no other international decontamination project of these characteristics: the large volume being treated, nearly one million cubic metres of different types of contaminated sludge.

**What does FCC contribute to the project?**

A human team, an excellent multidisciplinary crew covering all areas and technical quality.

**What is your opinion of this experience?**

It is a very gratifying experience since it has enabled me to learn about other company areas and increase my knowledge of certain subjects. The coordination among the construction, water, and environment teams is excellent. We are all FCC.

# The boss and his project

## Interview of Felip Serrahima, manager of FCC Ámbito's East Zone delegation

**How would you define this work?**

Decontaminating the Flix Reservoir is a unique project that has a construction component that is being executed by FCC Construcción; a waste management component being carried out by FCC Ámbito, the leader in Spain in industrial waste management.

**What does FCC contribute to the project?**

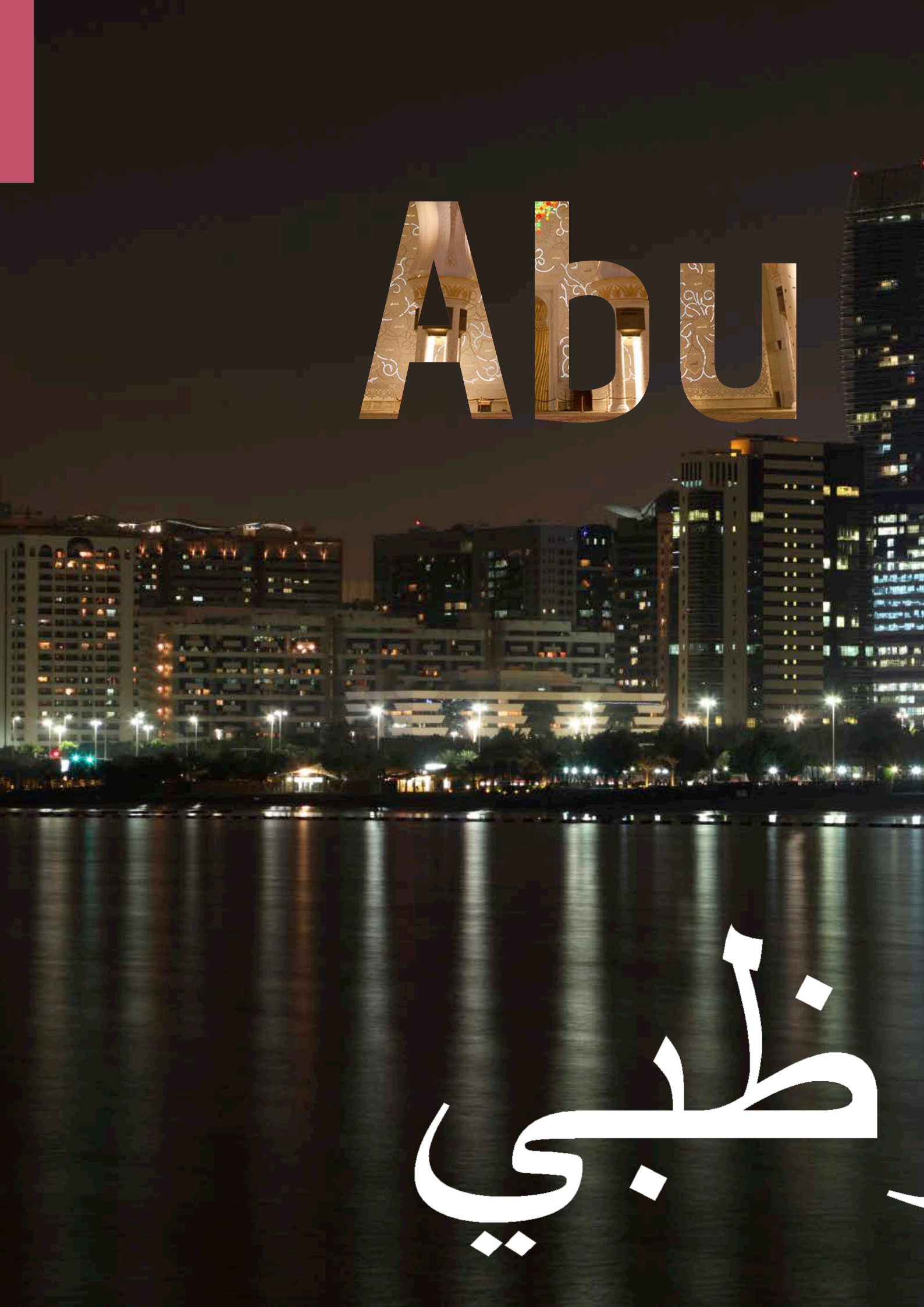
It contributes two leading companies that enable us to tackle a hybrid project of these characteristics. FCC Ámbito contributes its waste management skills and experience; searching for technologies, in the construction of the treatment installations, and the design of the laboratories for performing the analytical tests. We have also defined the treatments.

**What can you tell us about the work crew?**

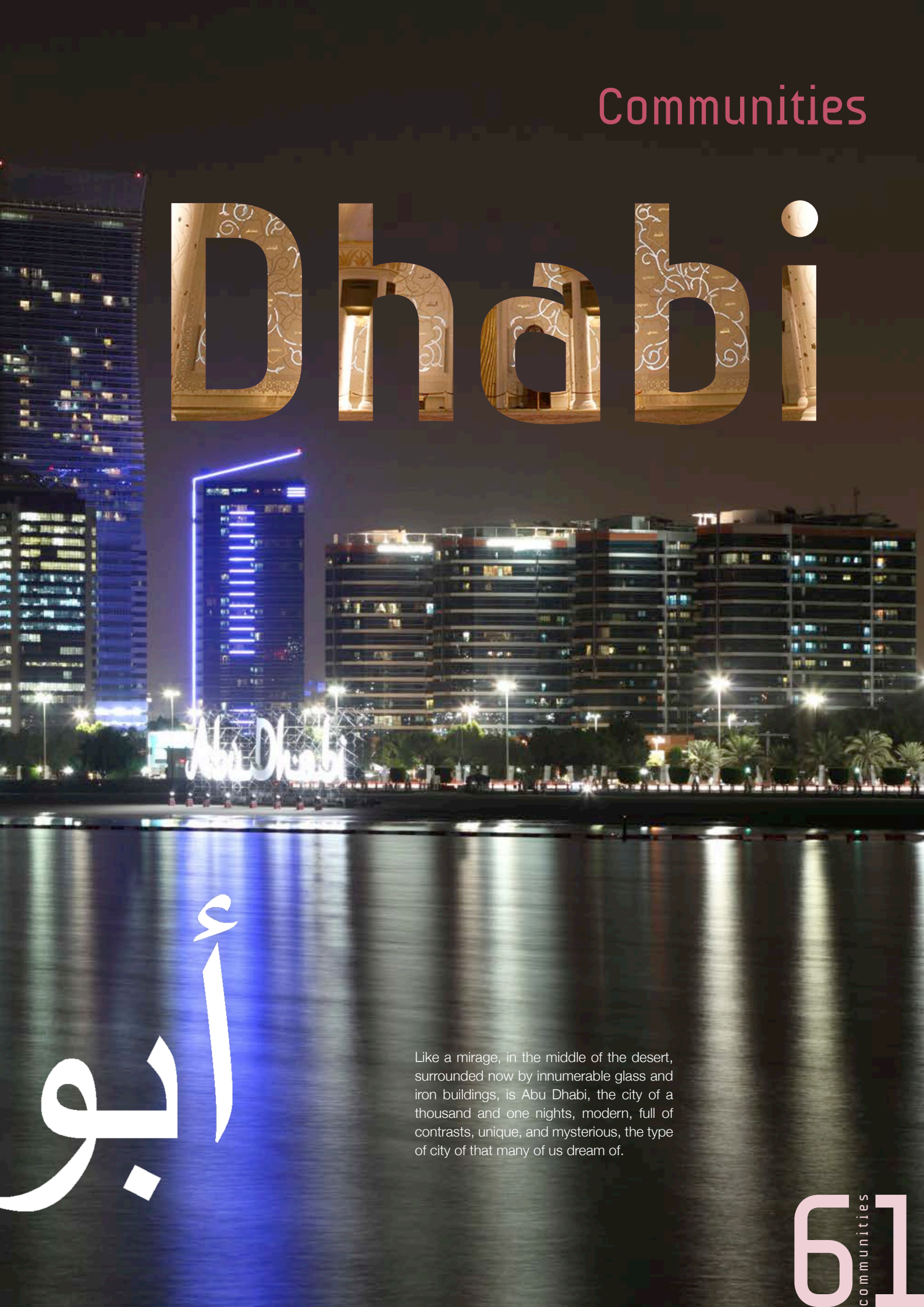
The crew is made up of people who work in construction and on industrial waste. It is a group project in which other companies have participated, such as FCC Industrial and FCC Aqualia.

We are all contributing our experience, knowledge, and enthusiasm. This project is being executed in the right way.

infraestructuras
medioambiente
agua
En 100 años
prestando servicios
a los ciudadanos
hemos visto cambiar
muchas cosas,
la primera de ellas
al propio ciudadano.
En FCC diseñamos y construimos infraestructuras, recogemos, reciclamos y valorizamos residuos urbanos e industriales, limpiamos calles, cuidamos parques y jardines, mantenemos el mobiliario urbano y gestionamos el agua en 5.000 municipios de todo el mundo desde hace más de 100 años. Al principio éramos unos pocos preocupados porque millones de personas disfrutasen de un lugar mejor donde vivir. Hoy son esos millones de personas los primeros que se preocupan por crear un lugar mejor donde vivir.
Lo estamos haciendo juntos.
www.fcc.es
FCC
Servicios Ciudadanos


Abu
ظبي

# Dhabi



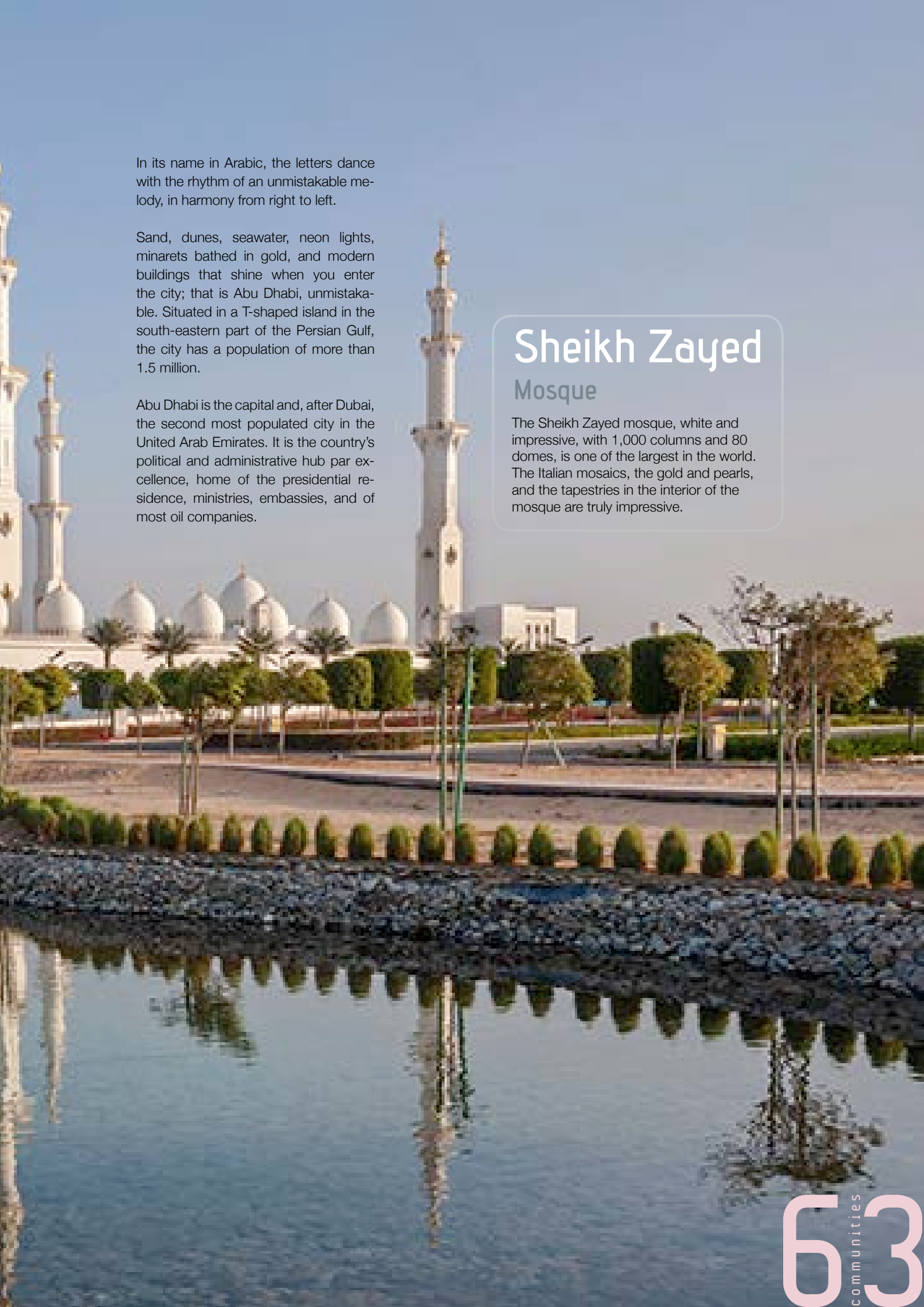
# أبو

Like a mirage, in the middle of the desert, surrounded now by innumerable glass and iron buildings, is Abu Dhabi, the city of a thousand and one nights, modern, full of contrasts, unique, and mysterious, the type of city of that many of us dream of.

In its name in Arabic, the letters dance with the rhythm of an unmistakable melody, in harmony from right to left.

Sand, dunes, seawater, neon lights, minarets bathed in gold, and modern buildings that shine when you enter the city; that is Abu Dhabi, unmistakable. Situated in a T-shaped island in the south-eastern part of the Persian Gulf, the city has a population of more than 1.5 million.

Abu Dhabi is the capital and, after Dubai, the second most populated city in the United Arab Emirates. It is the country's political and administrative hub par excellence, home of the presidential residence, ministries, embassies, and of most oil companies.



## Sheikh Zayed

### Mosque

The Sheikh Zayed mosque, white and impressive, with 1,000 columns and 80 domes, is one of the largest in the world. The Italian mosaics, the gold and pearls, and the tapestries in the interior of the mosque are truly impressive.

More than a half century ago, Abu Dhabi was a small village of fishermen and pearl divers. Its economy was also based on raising camels and on the production of dates and vegetables. Today, it is one of the world's largest oil producers, more than 1.5 million barrels per day. This source of energy, discovered in 1958 by English explorers, is responsible for the transformation that the country has undergone in the last and first decades of the 20th and 21st centuries, respectively. The city has become a cosmopolitan metropolis and the richest one in the Arab Emirates.

Abu Dhabi's economy is not only based on oil and finance; the sale of luxury goods and its leisure and entertainment offering are currently the most important sources of revenue. It is a city of large avenues with luxury cars, huge skyscrapers, including the monumental Ethihad Towers in the popular Corniche beachfront with numerous mosques and many well-kept gardens.

## A group of islands

Abu Dhabi is made up of a group of islands connected by bridges. The current distribution of its population within the city will be changing dramatically in the coming years when residential complexes are built in the outlying areas.

Abu Dhabi will have a large culture and art centre. Two large museums will be situated in Saadiyat Island: the Louvre and the Guggenheim. By the end of 2018, this island located 500 metres

off the coast of Abu Dhabi Island will also have numerous hotels, commercial centres, parks, golf courses will enhance the attractiveness of this city for visitors.

Yas Island offers several attractions, such as the Yas Marina Circuit which can accommodate fifty thousand spectators and is the site of the Grand Abu Dhabi Formula I Prize, as well as the Ferrari World Abu Dhabi theme park, situated next to the circuit, and a Warner Bros. Theme park. The island also has several sports centres, hotels, and residential areas.

The largest wildlife reserve in the Arabian region is situated in Sir Bany Yas Island, home of more than 10,000 mammals.

> “It became a cosmopolitan city and the richest one in the United Arab Emirates at the end of the 20th and beginning of the 21st centuries”

# What to see

- Sheikh Zayed, generally known as the Grand Mosque.
- Khalifa Park.
- Emirates Palace Hotel: The most expensive one in the world.
- Heritage Village, an open air museum that shows how the population of the Emirates lived before oil was discovered.
- The Marina Mall Commercial Centre, one of the most famous in the city.
- The Abu Dhabi beachfront, known as Corniche Road.
- Ferrari World, the only Ferrari theme park in the world.
- The Al Ain camel market.
- The camel races in the desert.
- The carpet marketplace.
- The Etihad Towers building complex with five skyscrapers.
- The gold market, women dressed in black walking along the many jewellery shops.
- The fishing boats that return in the evening to Mina Zayed and, if possible, the fish market auction that starts at five in the morning.

Al LuLu Island is an artificial island extending from the Abu Dhabi breakwater to the Zayed Sea Ports. It is a paradise-like island with two beaches, dunes, two artificial lakes, and an area for riding horses and camels.

Al Reem Island is a residential, commercial and business zone. Foreigners are able to buy or to lease property in this Island, one of the first free zones of Abu Dhabi.

## And then, there was oil

In the beginning, oil revenues had little impact and only some buildings and roads were built. At that time, it was governed by Sheikh Shakhbut Bin-Sultan Al Nahyan who harboured doubts about the success of the oil book and preferred to wait and save instead of investing in the city. Nevertheless, his brother Zayed set his eyes on the crude oil and believed that this wealth would transform the country. It was then decided, with the help of the British government, that Zayed should take the place of his brother as the country's leader, and take charge of the development of Abu Dhabi. This happened on 6 August 1996.

When the United Kingdom announced in 1968 that it was pulling out of the Gulf area around 1971, Sheik Zayed became the main driver behind the formation of the United Arab Emirates.

> “Abu Dhabi is the second most populated city, after Dubai, in the United Arab Emirates”

# First year of FCC Aqualia's mana

The company operates and maintains the sewage and waste water treatment system providing services to a population of more than 650,000 people.

FCC Aqualia has successfully completed its first year of in Abu Dhabi, where it is responsible for the operations and maintenance of the sewage network and waste water treatment in the East Zone, which includes the city of Al Ain and other remote areas which are the home of a population of more than 650,000 people.

The performance-based agreement contemplates the control of several indicators of correct management and service which constantly updates the level of conservation of the assets. These ratios include aspects such as response time in the event of damages and malfunctions, the minimisation of flooding and odours, c the treated water's compliance with quality standards, and availability of equipment.

Over these past months, the company implemented management plans and safe-

> "More than 330 workers from 14 different nationalities work under this contract which is based on indicators for the management and control of the status of all assets"

The team in charge of this contract is FCC Aqualia's most multicultural one. Above these lines, a family snapshot of company employees.

# gement in Abu Dhabi

ty and health policies thanks to which, no noteworthy accident has taken place. The team managing this contract is Aqualia's most multicultural one. It includes a group of 330 people of 14 different nationalities who are in charge of a fleet of more than 75 sanitation trucks. FCC Aqualia has also implemented a waste water laboratory which did not exist before, and which already undergoing an accreditation process.

Some of the most important figures for this first year of operations include the 25,000 actions to unblock individual installations; 98,000 trips by the trucks to empty septic tanks; the inspection and cleaning of 650 kilometres of pipes, and 1,3000 maintenance measures in pumping and treatment plants.

This is the first water management contract awarded to a Spanish company in the United Arab Emirates and bolsters FCC Aqualia's positioning in the region. The Company also operates in Saudi Arabia where it is in charge of an ambitious revamping plan for the water supply network in Riyadh.

## Al Ain

Al Ain, with a population of more than 600,000 people, is the fourth largest city in the United Arab Emirates. It is situated in Abu Dhabi at the border with Oman and 160 kilometres from Dubai. The name of the city, situated in an oasis in the middle of the desert, literally means "The Water Spring".

It is known as the "Garden City in the Gulf" thanks to its 75 parks and gardens, the first of which was built in 1969.